

# ICECAPS-ACE Weekly Report

April 26th<sup>th</sup> – May 2<sup>nd</sup>, 2021

Dane Hansen



Sunset over Summit Station 2021-04-28.

*Photo: Derek Pickell*

## **General Notes:**

The week brought warmer weather and clear skies. Fifteen crewmembers arrived on Tuesday which consisted mostly of carpenters, and also a replacement science technician for the TAWO facility. I spent several days training with the new science technician.

The HatPro status has not changed. The SkyOPC arrived on Tuesday and was installed mid-week. The TSI was also brought back online toward the end of the week and is capturing images.

**General Weather Observations:**

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp (C)	Notes
04-26	12	9 kts at 185		9999	FEW066 FEW099	-24	
04-27	12	6 kts at 181		4800	BKN047	-15	
04-28	12	10 kts at 250		9999	FEW	-21	
04-29	12	7 kts at 287	FZFG	1000	SKC	-27	
04-30	12	8 kts at 118		9999	SKC	-32	
05-01	12	10 kts at 123		9999	SKC	-29	
05-02	12	4 kts at 257		9999	SKC	-26	

**Significant Weather Observations:**

- None

**MSF**

- Operating normally.

**ICECAPS-ACE Data Management:**

- 04-19: Data transfer completed at 0736Z.
- 04-20: Data transfer completed at 0538Z.
- 04-21: Data transfer completed at 0538Z.
- 04-22: Data transfer completed at 0444Z.
- 04-23: Data transfer completed at 0429Z.
- 04-24: Data transfer completed at 0444Z.
- 04-25: Data transfer completed at 0516Z.

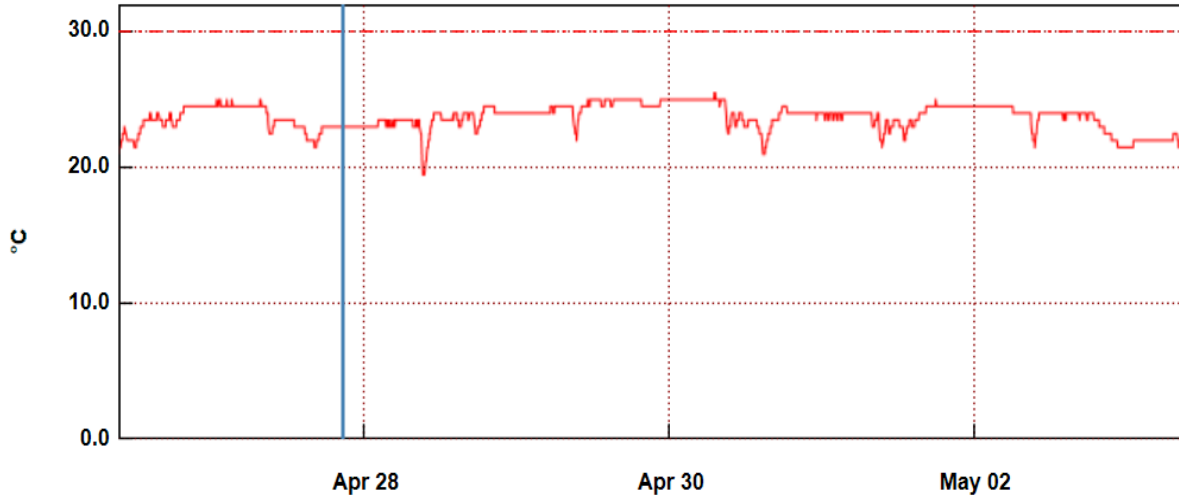
**TSI:**

- Offline for the winter season.

**Radiosonde:**

- Once daily launches.
- 2021-05-01: Launch failed due to excessive missing data frames.
- See chart below for radiosonde cabinet temperatures over the last week.

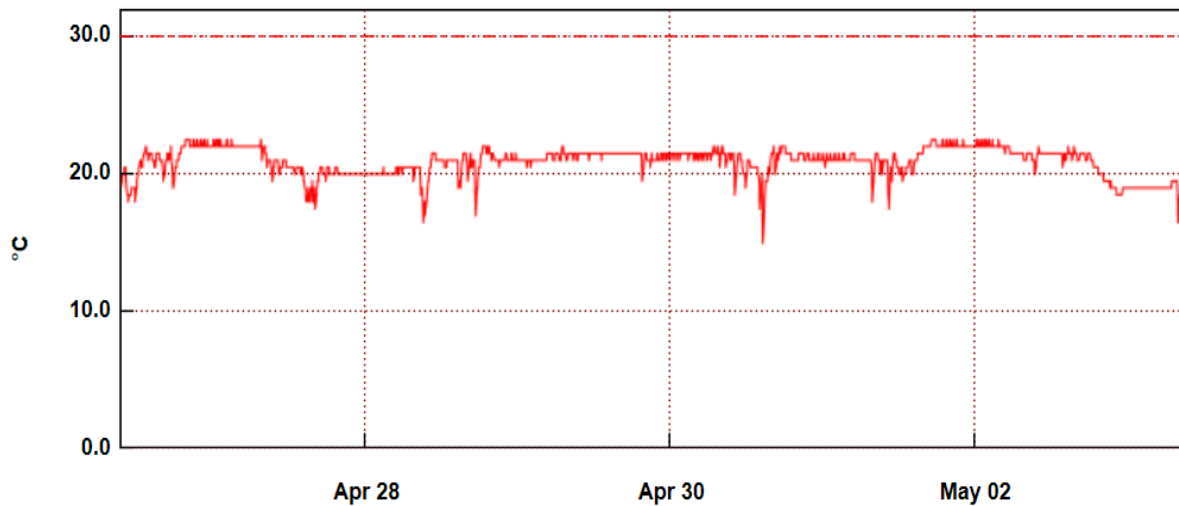
### RadioSondeBase



Tuesday, April 27, 2021 8:43:33 PM [ 23.0 ]

From: Monday, April 26, 2021 9:25:32 AM - To: Monday, May 3, 2021 9:04:32 AM

### SondeCabExt



From: Monday, April 26, 2021 9:24:19 AM - To: Monday, May 3, 2021 9:06:19 AM

**MWR:**

- HatPro boots and connects to software but shows 'Master stepper error' message. Troubleshooting in progress.
- RPG-150-90 operating normally.

**SODAR:**

- 2021-04-26 1455Z: Cleaned and levelled.
- Operating normally.

**POSS:**

- Operating normally.

**MASC:**

- Offline for winter season.

**MMCR:**

- 2021-04-26 1413Z: Cleared 'Net CDF' message.
- 2021-04-27 1216Z: Cleared 'Net CDF' message.
- 2021-04-28 1655Z: Cleared 'Net CDF' message.
- 2021-04-29 1647Z: Cleared 'Net CDF' message.
- 2021-04-30 1330Z: Cleared 'Net CDF' message.
- 2021-05-02 1208Z: Cleared 'Net CDF' message.
- Operating normally.

**CAPABL:**

- 2021-05-01 1212 to 1219Z: Shut down laser to clean window and failed to restart data saving.
- 2021-05-02 1206Z: Restarted data saving.
- Operating normally.

**MPL:**

- No change to MPL window condition.
- 2021-04-29 2020Z: System froze.
- 2021-04-30 1348Z: Restarted computer and restarted software.
- Operating normally.

**CEILOMETER:**

- Operating normally.

**PAERI:**

- System has shown intermittent 'SW responsivity' yellow flags for most of the week.
- Operating normally.

**IceCAM:**

- Operating normally.

**IcePIC:**

- No IcePICs this week.

**CPC:**

- 2021-04-27 1326 to 1336Z: Knocked data cable out of instrument.
- Operating normally.

**MSF - OPC:**

- Operating normally.

**TAWO - OPC:**

- Operating normally.

**SKYOPC:**

- 2021-04-27 1635Z: Reinstalled and brought online.
- 2021-04-28 1628 to 1659Z: Tested new diaphragm pump.

**Fluxtower instrument suite:**

- 2021-05-02: Quicklooks lost communication with the fluxtower and is being addressed currently.
- Operating normally.

**Radiometers:**

- 2021-04-07: Ongoing troubleshooting. Suspected faulty DC power supply to logger box.