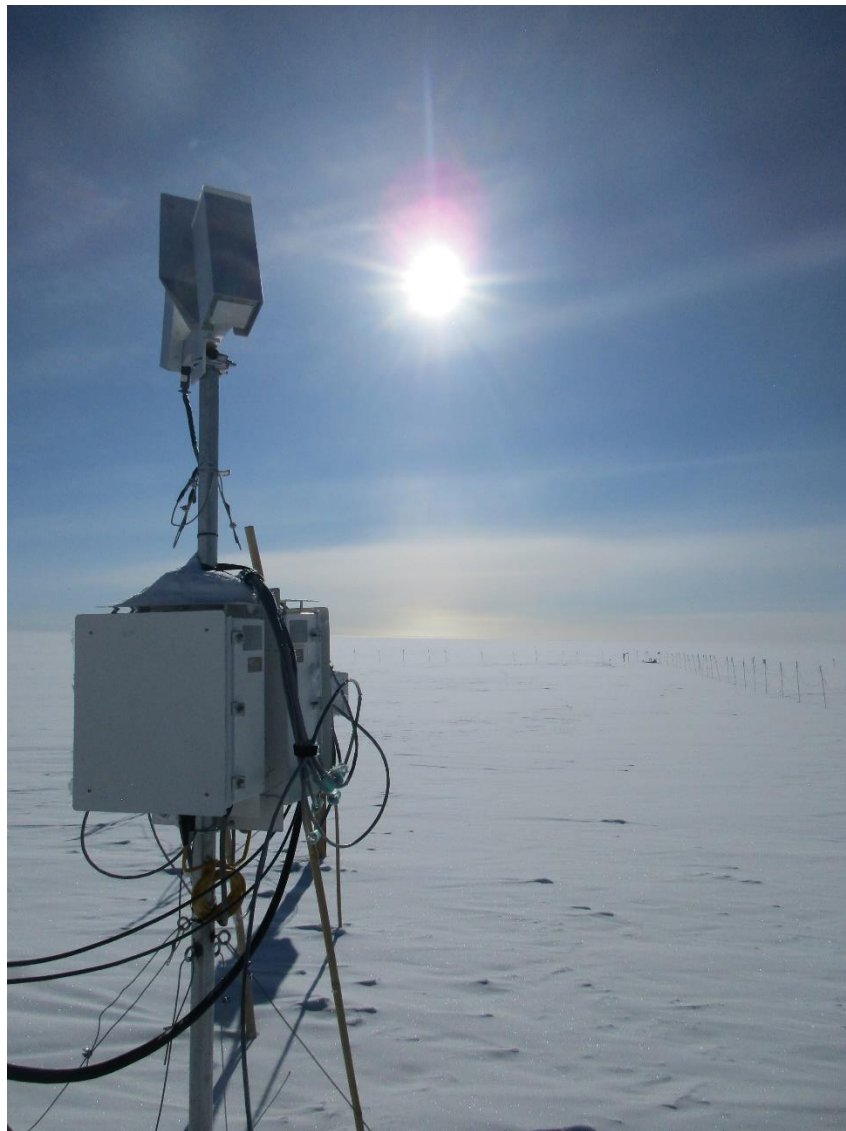


# ICECAPS-ACE Weekly Report

April 5<sup>th</sup> – April 11<sup>th</sup>, 2021

Dane Hansen



The POSS enjoying the view of an afternoon sun pillar on a clear day.

*Photo: Dane Hansen*

## **General Notes:**

A mostly uneventful week was highlighted by the installation of a new circuit board in the HatPRO radiometer. Following the installation, the instrument has been booted up and seems to be operational. A more comprehensive evaluation is yet to be conducted.

The MSF is reordered and looking great. The new workspace has been beneficial for recent projects and will be even more useful for the approaching summer season.

### General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp (C)	Notes
04-05	12	12 kts at 264		9999	FEW	-46	
04-06	12	14 kts at 149	FZFG -SN	800	BKN024	-31	
04-07	12	10 kts at 327		4800	SKC	-42	
04-08	12	2 kts at 134		9999	SKC	-45	
04-09	12	12 kts at 241	DRSN BR	1600	OVC064	-32	
04-10	12	10 kts at 299	BR	3200	BKN016	-32	Pillar
04-12	12	3 kts at 358	BR	1600	SKC	-37	22-degree halo

### Significant Weather Observations:

- 2021-04-10: Pillar.
- 2021-04-11: 22-degree halo.
- Data transfer from the new laptop.

### MSF

- Full of flask crates.
- Operating normally.

### ICECAPS-ACE Data Management:

- 04-05: Data transfer completed at 0537Z.
- 04-06: Data transfer completed at 0551Z.
- 04-07: Data transfer completed at 0712Z.
- 04-08: Data transfer completed at 0610Z.
- 04-09: Data transfer completed at 0602Z.
- 04-10: Data transfer completed at 0530Z.
- 04-11: Data transfer completed at 0745Z.

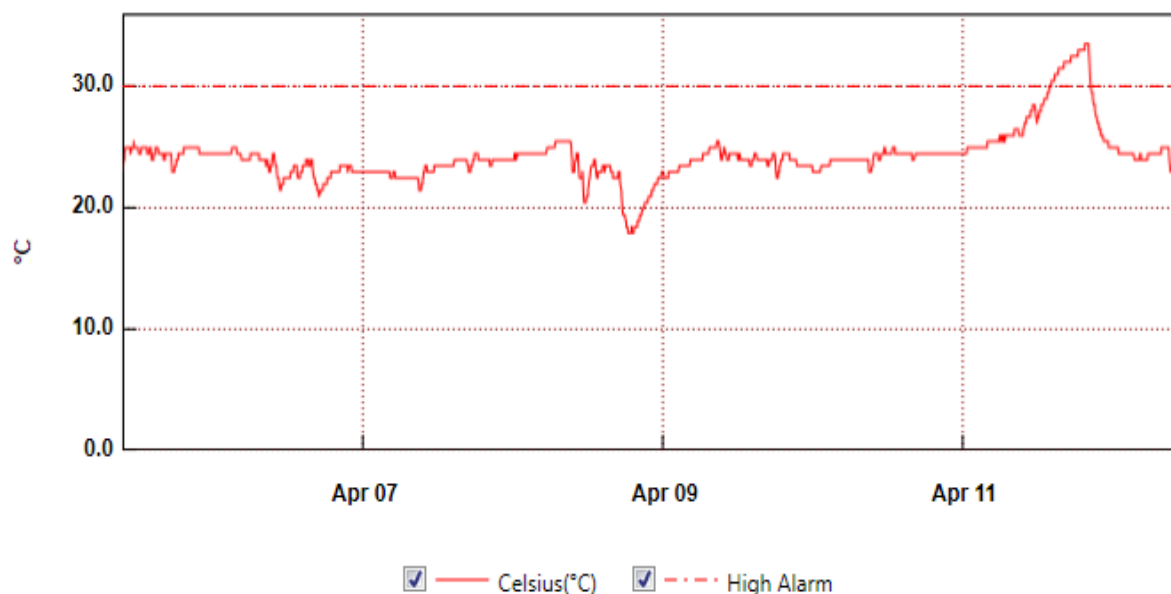
### TSI:

- Offline for the winter season.

### Radiosonde:

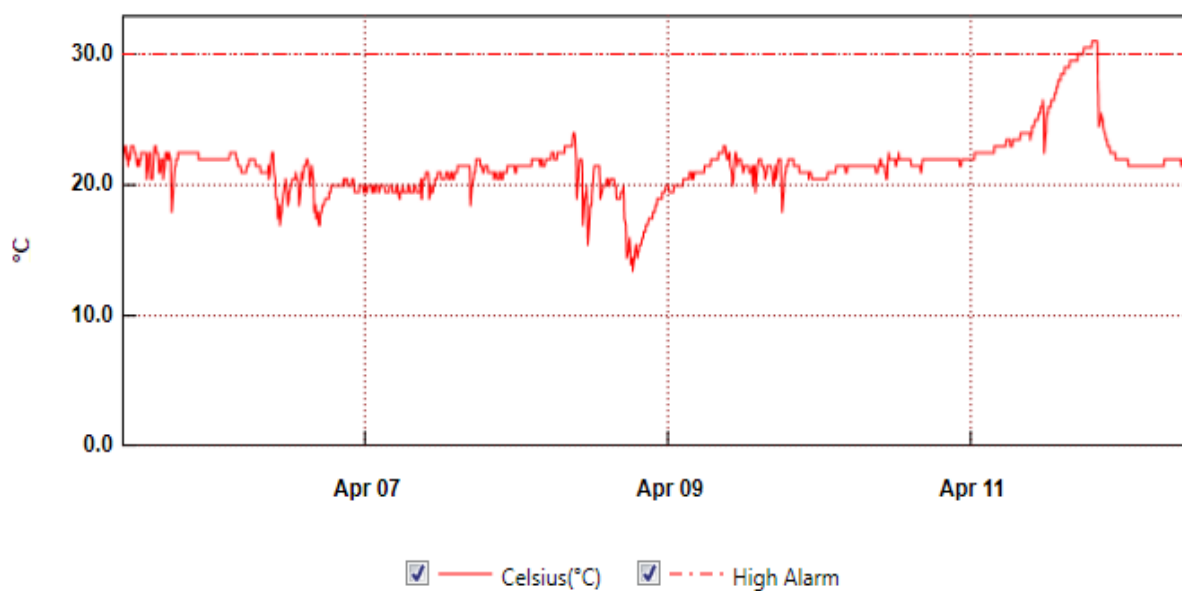
- Once daily launches.
- See chart below for radiosonde cabinet temperatures over the last week.

### RadiosondeBase



From: Monday, April 05, 2021 9:29:56 AM - To: Monday, April 12, 2021 11:03:56 AM

### SondeCabExt



From: Monday, April 05, 2021 9:28:27 AM - To: Monday, April 12, 2021 11:05:27 AM

**MWR:**

- HatPro replacement board has been installed and the system boots up normally (as far as I know). Next steps....
- What is the consensus with the tombstones?
- RPG-150-90 operating normally.

**SODAR:**

- 2021-04-05 1707 to 1732Z: Cleaned and levelled.
- Operating normally.

**POSS:**

- Operating normally.

**MASC:**

- Offline for winter season.

**MMCR:**

- 2021-04-09 1327Z: Changed desiccant.
- 2021-04-10 1212Z: Cleared 'Error7' message.
- 2021-04-11 1312Z: Cleared 'Error7' message.
- Operating normally.

**CAPABL:**

- 2021-04-10 1235 to 1347Z: Shut down laser to clean window (no abort file was written).
- Operating normally.

**MPL:**

- No change to MPL window condition.
- Operating normally.

**CEILOMETER:**

- 2021-04-10 1238Z: Blower not running.
- Operating normally.

**PAERI:**

- Protocol update for restart procedure?
- Operating normally.

**IceCAM:**

- Operating normally.

**IcePIC:**

- No IcePICs this week.

**CPC:**

- 2021-04-09 1246Z: Changed outlet filter.
- 2021-04-11 1247 to 1333Z: CPC not running due to 'Air pump current too high.' No blockage found in outlet line and restarted.
- Operating normally.

**MSF - OPC:**

- 2021-04-07 1301Z: OPC removed from mast to thaw.
- 2021-04-08 1402Z: OPC reinstalled and restarted.
- Operating normally.

**TAWO - OPC:**

- 2021-04-07 1140Z: OPC removed from mast to thaw.
- 2021-04-08 1920Z: OPC reinstalled and restarted.
- Operating normally.

**SKYOPC:**

- Returned to Kangerlussuaq for onward shipping and manufacturer repair in Germany.

**Fluxtower instrument suite:**

- Operating normally.

**Radiometers:**

- 2021-04-07: Ongoing troubleshooting. Suspected faulty DC power supply to logger box.
- Dailies log and archiving old data.