

# ICECAPS-ACE Weekly Report

December 10 – December 16, 2018

Gus Allen



*Even the blockiest of buildings can manage a cool look in dramatic Summit winter lighting conditions.*

## General:

Only minor issues were encountered with a couple ICECAPS systems this week.

## Significant Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp	Notes
12-10	12Z	12kt from 200	BR	1000	FEW100	-46	
12-11	12Z	18kt from 100		9999	SCT210	-41	
12-12	12Z	13kt from 160	-SN BR	1000	FEW000 FEW100	-34	
12-13	12Z	10kt from 150	FZFG	0600	SCT000 BKN018	-34	
12-14	12Z	11kt from 190	BR	1000	FEW000 BKN020	-28	BLSN and wind at 18Z
12-15	12Z	12kt from 170	BR	1600	FEW000 FEW100	-46	Very clear following ob
12-16	12Z	08kt from 090		9999	SKC	-44	Wind to 18kts after 16Z

**ICECAPS-ACE Data Management:**

- 12-10: Data transfer complete at 1453Z
- 12-11: Data transfer complete at 1422Z
- 12-12: Data transfer complete at 1455Z
- 12-13: Data transfer complete at 1345Z
- 12-14: Data transfer complete at 1426Z
- 12-15: Data transfer complete at 1313Z
- 12-16: Data transfer complete at 1354Z

**MWR:**

- Operating normally.

**SODAR:**

- 12-13 1755 to 1915Z: Amp powered off while I removed snow from the dishes.
- Operating normally.

**POSS:**

- Operating normally.

**MMCR:**

- Operating normally.

**CAPABL:**

- Instrument currently operating normally using laser 2

**MPL:**

- 12-12: ICECAPS showing MPL mount at 97% capacity. I notified Matt Shupe.
- 12-13: At Shupe's direction, I deleted all archived data files from 2018-02 to clear disk space.
- Operating normally.

**VCEIL:**

- Operating normally.

**IceCAM:**

- Operating normally.

**PAERI:**

- 12-11: The PAERI briefly showed red LWresponsivity and SWresponsivity flags at 18Z and 19Z, but the flags cleared on their own without any need to clean the scene mirror of snow.
- 12-12: At daily check, I noted that the ampmeter on PAERI enclosure fan was reading 0 and the fan wasn't turning. Assessing, I discovered the plug on the power line had become partially disconnected in the socket, probably in 30-kt wind the night before. Performing the simplest fix ever, I reseated the plug and the fan resumed turning.
- Operating normally.

**TSI:**

- Offline for winter season.

**IcePIC:**

- No images captured this week.

**Radiosonde:**

- Twice daily launches.

**MASC:**

- Instrument offsite for repair, will not return until summer 2019.

**OPC:**

- 12-13: At daily check at 1610, I noted the instrument fan was not turning and appeared to be blocked by snow. I powered down the raspberrypi and removed the OPC from the roof to dry out and assess.
- 12-15 2010Z: OPC replaced on roof and data collection restarted. Instrument mounted horizontally with intake down to assess whether this orientation might rime less.
- Operating Normally

**CLASP:**

- Instrument off site.

**CPC:**

- Instrument off site.