

ICECAPS-ACE Weekly Report

November 19 – November 25, 2018

Gus Allen



Paraselenae (moon dogs) observed over the MSF on Friday, 11-23. The CAPABL beam is faintly visible.

General:

Errors with multiple instruments are a sure sign it's a holiday, so I'm told. An apparent drop in the data upload rate for the whole station has not been resolved as of this writing.

Significant Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp (C)	Notes
11-19	1200	14kts from 170	FZFG IC	400	SCT000 SCT100	-33	
11-20	1200	25kts gusting to 30kts from 170	BLSN	100	BKN000	-19	Peak wind overnight 40kts
11-21	1200	24kt from 150	BLSN	100	BKN000 OVC018	-20	

11-22	1200	11kts from 160		9999	SCT050	-44	30kts and BLSN overnight
11-23	1200	15kts from 210	BLSN	300	SCT000 BKN120	-27	Moon dogs around 2100Z
11-24	1200	9kts from 190	IC	9999	BKN030	-25	
11-25	1200	13kts from 212	BLSN BR	400	BKN000 BKN020	-22	IC and rave ice 1900 to 2300Z

ICECAPS-ACE Data Management:

- 11-19: Data transfer continues to be unsuccessful. Contacted Shupe again.
- 11-20: Data transfer issue appears to be resolved by Kelly Healy at NOAA. Transfer ran most of the night, appears to be complete at 1404Z.
- 11-21: Data transfer complete at 1008Z.
- 11-22: Data transfer complete at 2235Z, very slow.
- 11-23: Data transfer complete at 2110Z. Again, slow.
- 11-24: Data transfer complete at 2233Z.
- 11-25: Data transfer complete at 11-26 0034Z.

MWR:

- 11-23: Software found showing "Communication Error". Last data files written at 0447Z. Software not responding normally. I contacted Dave Turner and Erik Olson by email.
- 11-25: Software only communicating with HATPRO. Per Erik Olson, I cycled the power to the 150-90 and was able to bring both instruments back online at 2217Z.

SODAR:

- Operating normally.

POSS:

- Operating normally.

MMCR:

- 11-22: Window showing error 7. I hit continue and the instrument appeared to resume normal operations. I contacted Matt Shupe.
- 11-24: NetCDF errors noted. I cleared them and contacted Matt Shupe.
- Operating normally.

CAPABL:

- 11-20 1435-1445Z: Laser power set to 1 to allow safe snow removal from window on MSF roof.

- 11-22 1645Z: Terminal found showing a disk boot error. I contacted Robert Stillwell, and he sent me instructions to restart the system. I was able to complete this, but in the time I was there the CAPABL window was covered by snow in high wind. It cleared itself (I wasn't able to safely access the the roof) and I restarted the system at 1913Z.
- 11-23 1445Z: I found the window covered with snow when I came in. I manually adjusted the laser power down to 1 then removed the snow from the window. I put it back at power 10 at 1457Z.
- Instrument currently operating normally using laser 2

MPL:

- 11-20: At daily check I found the MPL window blocked by snow. I cleared it while the afterpulse cal ran.
- 11-20 1426-1445Z: Afterpulse calibration performed.
 - 30m30s
 - Copol background avg: .000338
 - Copol std dev .000216
 - File: 201811201426.mpl
 - 15m30s
 - Copol background avg: .000310
 - Copol std dev .000307
 - File: 201811201436.mpl
- Operating normally.

VCEIL:

- Operating normally.

IceCAM:

- Operating normally.

PAERI:

- 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:

- Options for filtering or otherwise preventing snow and rime buildup leading to occlusion of

instrument intake remain under consideration.

- Operating Normally

CLASP:

- Instrument off site.

CPC:

- Instrument off site.