

ICECAPS-ACE Weekly Report

January 14 – January 20, 2019

Gus Allen



Radiosonde balloon launch Friday, January 18.

General: The MSF continues to require daily adjustments to account for large swings in ambient temperature. I have completed digging out and raising cables leading to the POSS.

Significant Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp	Notes
1-14	12	11kts from 168		9999	FEW100	-55	
1-15	12	13kts from 180	FZFG BLSN	0600	SCT000 SCT100	-46	
1-16	12	12kts from 180	FZFG SN	0800	FEW000 SCT020	-42	
1-17	12	10kt from 220	FZFG	0800	BKN000	-47	
1-18	12	17kt from 210	FZFG SN	0400	Sct000 BKN012	-40	
1-19	12	17kt from 140		9999	FEW010	-40	
1-20	12	16kt from 150	BR	0800	FEW000 BKN060	-44	

ICECAPS-ACE Data Management:

- 1-14: Data transfer complete at 1413Z
- 1-15: Data transfer complete at 1242Z
- 1-16: Data transfer complete at 1315Z
- 1-17: Data transfer complete at 1254Z
- 1-18: Data transfer complete at 1359Z
- 1-19: Data transfer complete at 1341Z
- 1-20: Data transfer complete at 1408Z

MWR:

- Operating normally.

SODAR:

- Operating normally.

POSS:

- Operating normally.

MMCR:

- 1-14: More Net CDF errors
- 1-15: Restart initiated at 1355Z. Complete with no errors at 1437Z. Three restarts required.
- 1-16: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
- 1-17: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
- 1-18: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
- 1-19: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
- 1-20: Health log indicates Temp (Outdoor) is out (Value at 13Z: 30)
- Operating normally.

CAPABL:

- 1-18: at 14Z, CAPABL window was found obstructed by snow. I manually set the laser power 1 to clear the window, and set the power back to 10 at 1439z
- Instrument currently operating normally using laser 2

MPL:

- 1-14: At daily check I found the system clock to be about 1 minute off from the MSF time server. After communicating with Matt Shupe, I changed a system setting in Windows and I now believe the Windows internet time syncing function should work.
- Operating normally.

VCEIL:

- Operating normally.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.

TSI:

- Offline for winter season.

IcePIC:

- Images captured 1-16.

Radiosonde:

- Twice daily launches.

MASC:

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

OPC:

- 1-15: OPC removed from roof to remove rime.
- 1-17: OPC remounted on roof and data collection restarted.
 - I have added a cardboard plate with an electrical tape surface to the intake as a possible anti-riming solution.
- 1-18: OPC plot not updating. Data do not appear to be transferring between the ACE Pi and the ACE-1 laptop. I contacted Heather about this. (This is restored 1-21)
- The ACE mount is not present for DATAMAN, so OPC data are not being transferred offsite. Neely is working on this issue.

CLASP:

- Instrument off site.

CPC:

- Instrument off site.