ICECAPS-ACE Weekly Report

April 13 – April 19, 2020 Nate Bowker



Stratus clouds moving over station. Photos Nate Bowker

General Notes:

Preparations are currently underway for a crew turnover and station resupply in mid-May. This turnover will be supported by a KBA Basler via Thule.

General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp (C)	Notes
04-13	12	13kt from 243	SN DRSN	800	OVC016	-23	
04-14	12	16kt from 343	FZFG DRSN	600	SCT020	-28	
04-15	12	11kt from 099		9999	FEW032	-33	
					FEW098		
					SCT130		
04-16	12	13kt from 162	BR	1600	OVC032	-23	
04-17	12	26kt from 164	BLSN	200	VV007	-22	
04-18	12	42kt from 153	BLSN	50	VV002	-17	
04-19	12	20kt from 192	FZFG DRSN	500	BKN060	-28	

Significant Weather Observations:

• 2020-04-13 ~1230-1930Z: 22 degree halo, parhelia, 46 degree halo, sun pillar.

MSF

Operating normally

ICECAPS-ACE Data Management:

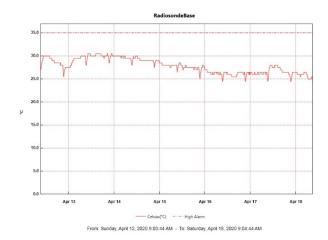
- 04-13: Data transfer completed at 0442Z.
- 04-14: Data transfer completed at 0509Z.
- 04-15: Data transfer completed at 0442Z.
- 04-16: Data transfer completed at 0459Z.
- 04-17: Data transfer completed at 0443Z.
- 04-18: Data transfer completed at 0444Z.
- 04-19: Data transfer completed at 0432Z.

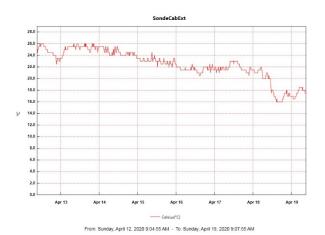
TSI:

Offline for winter season.

Radiosonde:

- 2020-04-10*: Replaced radiosonde cabinet air filter. *Forgot to include on last week's report.
- 2020-04-18: 0000Z and 1200Z sonde launches failed due to winds > 40kt.
- See charts below for temperatures inside and outside the radiosonde cabinet over the last week.





MWR:

• HATPRO offsite for repairs. 150-90 online and operating normally.

SODAR:

- 2020-04-13 1315-1336Z: Cleaned SODAR dishes.
- 2020-04-13: Raised cable supports.
- Operating normally.

POSS:

• Operating normally.

MASC:

• Offline for winter season.

MMCR:

- 2020-04-13: Observed transmitter power fluctuation at around 0000Z, lasting for ~3 hours.
- Operating normally.

CAPABL:

- 2020-04-19 1147-1200: Shut down to remove snow from window. Had to reboot meadowlark.
- Operating normally.

MPL:

- 2020-04-17 1302-1321Z: Performed monthly afterpulse calibration.
- Operating normally.

CEILOMETER:

• Operating normally.

PAERI:

• Operating normally

IceCAM:

• Operating normally.

IcePIC:

• No photos taken this week.

CLASP:

Offline

CPC:

- 2020-04-14: Liquid level alarm persistent but instrument still collecting data.
- 2020-04-16: Topped up butanol reservoir and emptied condensate reservoir.
- 2020-04-17 1130-1202Z: Status error 3 caused a short interruption in data collection. Cleared error and normal operation resumed.
- 2020-04-19: Data collection stopped due to persistent status error 3 and liquid level alarms. Unable to clear alarms so powered down instrument at ~1230Z.
- Operating normally.

MSF - OPC:

- 2020-04-18 1832Z: Restarted after high winds caused the instrument to go offline.
- Operating normally.

TAWO - OPC:

• Operating normally.

SKYOPC:

• Operating normally.

INP Freezing Assay:

- 2020-04-14: Auto-calibrated cold stages.
- 2020-04-15: Weekly assays completed.

Fluxtower instrument suite:

• Instruments with power operating normally.

Solar Instruments:

- 2020-04-14: Completed weekly data download
- 2020-04-19: Solar tracker got off-track during stormy conditions while in "sun mode".
- Operating normally.