

ICECAPS-ACE Weekly Report

August 3 – August 9, 2020

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First sunset on 2020-08-07.

General Notes:

The first flight of FP5 arrived this weekend bringing with it the HATPRO, LN2, and SKYOPC pump equipment. The new crew made it to Summit on Sunday but were unable to land because of a crosswind.

General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp (C)	Notes
08-03	12	12kts at 139	IC BR	4800	FEW015 SCT100	-12	
08-04	12	6kts at 119	BR	4800	SCT015 BKN082	-14	
08-05	12	15kts at 130	IC DRSN BR	4800	BKN032	-13	
08-06	12	24kts at 134	BR	3200	SCT016 BKN130	-9	
08-07	12	17kts at 131	BLSN	1600	BKN000 BKN064 BKN180	-12	
08-08	12	12kts at 100	-SN DRSN	1600	BKN010 BKN123	-12	
08-09	12	13kts at 161	FZFG DRSN	1600	BKN000 BKN070	-17	

Significant Weather Observations:

- None.

MSF

- 2020-08-08 1728Z: Changed the MSF UPS bypass high limit voltage from 1% to 10% of the nominal output of 120/208V. This is the default setting and what the TAWO UPS has been set at. This cleared the bypass unavailable message and the UPS proceeded to perform and pass a battery test.

ICECAPS-ACE Data Management:

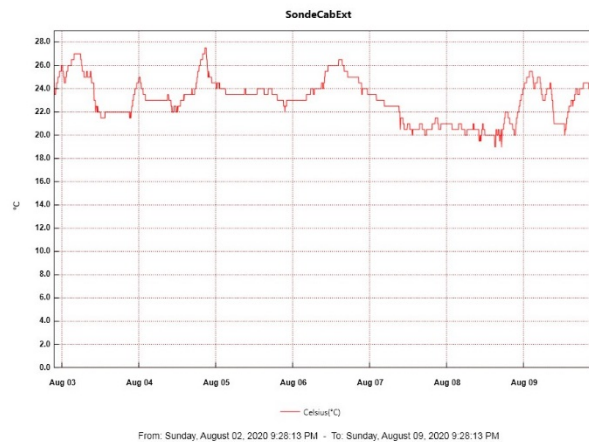
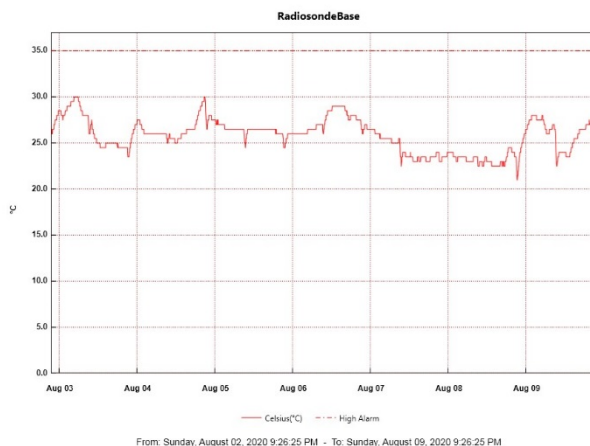
- 08-03: Data transfer completed at 0454Z.
- 08-04: Data transfer completed at 0452Z.
- 08-05: Data transfer completed at 0446Z.
- 08-06: Data transfer completed at 0459Z.
- 08-07: Data transfer completed at 0457Z.
- 08-08: Data transfer completed at 0458Z.
- 08-09: Data transfer completed at 0504Z.

TSI:

- Operating normally. No software reboots required.

Radiosonde:

- 2020-08-06 00Z: Sounding terminated at a height of 24592m due to excessive missing GPS heights.
- 2020-08-06: Radiosonde R2128199 pressure sensor failed during ground check.
- Monitoring radiosonde signal dropouts. There were 3 soundings this week that lost signals for over 1 minute.
- See charts below for temperatures inside and outside the radiosonde cabinet over the last week.



MWR:

- HATPRO installation in progress. 150-90 online and operating normally.
- 2020-08-08: HATPRO and LN2 arrived at Summit.

SODAR:

- 2020-08-03 1731-1742Z: Cleaned and leveled the SODAR dishes.
- Operating normally.

POSS:

- Offline. Awaiting arrival of replacement Telebyte.

MASC:

- Operating normally.

MMCR:

- 2020-08-04 1800Z: LabView Error 7 “file not found”.
- 2020-08-05 1230Z: Daily calibration skipped due to previous day’s LabView error not being cleared yet.
- Operating normally. Monitoring transmitter power fluctuations.

CAPABL:

- Operating normally.

MPL:

- Operating normally. Monitoring laser energy fluctuations.

CEILOMETER:

- Operating normally.

PAERI:

- Operating normally.

IceCAM:

- Operating normally.

IcePIC:

- No IcePICs taken this week.

CLASP:

- Offline. Staged for retro.

CPC:

- Offline. Staged for retro.

MSF - OPC:

- Operating normally.

TAWO - OPC:

- Operating normally.

SKYOPC:

- 2020-08-08: New pump, service kit, and spare capacitors arrived at Summit.
- Operating normally.

INP Freezing Assay:

- 2020-08-07: Digital sampler decommissioned at TAWO. Sampler is currently being packed for shipment.

Fluxtower instrument suite:

- Operating normally.

Radiometers:

- 2020-08-03: Completed weekly data download.
- Operating normally.