

ICECAPS-ACE Weekly Report

October 28 – November 3, 2019

Jess Ackerman



Above: 2019-10-28 – Panoramic photo of inside the MSF. Lots going on in here!

General Notes:

Still plugging along here at Summit Station. Work load for the ICECAPS tech is starting to stabilize as I learn more and more about my job. Very helpful conference calls during the week with boss Sam totaling over 3 hours helped clarify detailed tasking and responsibilities. Getting to know my workspace through explorative snooping. Still so much to learn.

General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp	Notes
10-28	12	247°, 10 kn		9999	OVC050	-30	Altostratus.
10-29	12	125°, 8 kn	FZFG	800	FEW	-44	
10-30	12	239°, 9 kn	FZFG	300	OVC003	-32	
10-31	12	174°, 10 kn	BR	1600	SCT098	-42	Cirrostratus.
11-01	12	253°, 10 kn	BR	1600	OVC003 OVC016	-27	Stratus.
11-02	12	235°, 9 kn	-SN	1600	OVC016	-30	Stratus.
11-03	12	182°, 11 kn		4800	OVC030	-36	Stratus.

Significant Weather Observations:

- 2019-10-31 1400-1429z: Fog Bow
- 2019-11-01 1844z: Rave Ice
- 2019-11-03 1240-1255z: Sundog

MSF

- 2019-10-29 1312z: Increased Solo Controller by 2° F due to cooler temperatures per Sam.
- Operating normally.

ICECAPS-ACE Data Management:

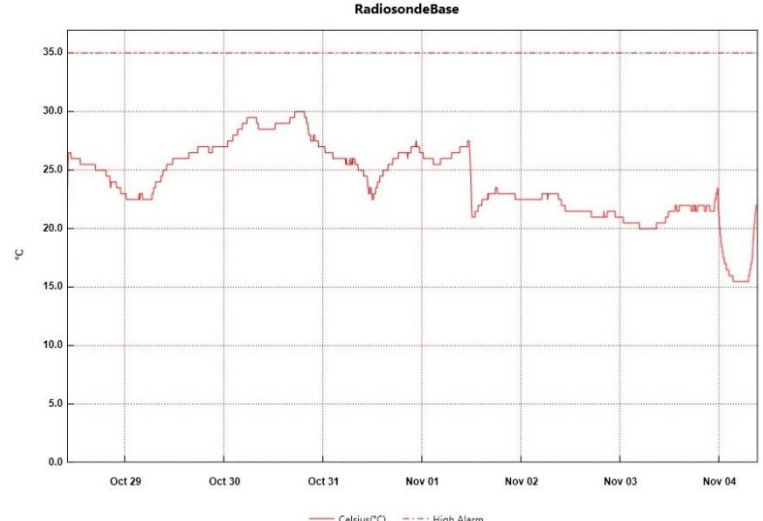
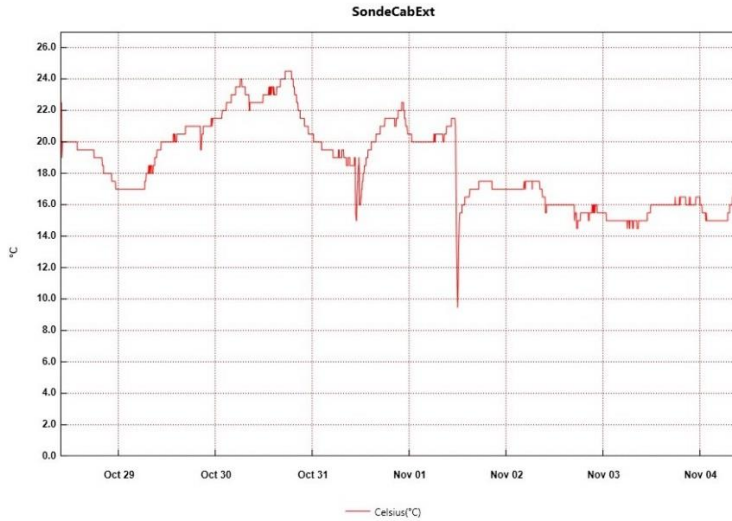
- 10-28: Stop ArchiveToBoulder at 1442z.
- 10-29: Stop ArchiveToBoulder at 1430z.
- 10-30: Stop ArchiveToBoulder at 1430z.
- 10-31: Stop ArchiveToBoulder at 1634z.
- 11-01: Stop ArchiveToBoulder at 1406z.
- 11-02: Stop ArchiveToBoulder at 1457z.
- 11-03: Stop ArchiveToBoulder at 1355z.

TSI:

- Offline for winter season.

Radiosonde:

- Twice daily launches.
- 2019-10-27 1121z: RH values >100% outside SMG. Initial sonde launched.
- 2019-10-30 2357z: RH not measuring. Launched 2nd sonde successfully.
- See charts below for temperatures outside and inside the Radiosonde cabinet over the last week.



MWR:

- 2019-10-30 1225z: Frosty window pics taken and cleaned.
- Operating normally.

SODAR:

- 2019-11-01 1412-1442z: Powered off for routine cleaning. Adjusted more cable heights.
- Operating normally.

POSS:

- 2019-10-31 1351z: Minor “DC Offset” error. No action needed.
- Operating normally.

MASC:

- 2019-10-29: 1252-1313z Computer shut down. 1257-1258z Unplugged at instrument to reset. YES “MASC waiting for status” message cleared. PI notified.
- 2019-10-30 1315z: Informed PI “MASC waiting for status” YES message has returned.

MMCR:

- Operating normally.

CAPABL:

- 2019-10-30 1232-1241z: Laser turned off for window clearing.
- 2019-11-02 1235-1247z: Laser turned off for window clearing.
- Operating normally

MPL:

- Operating normally

VCEIL:

- Operating normally.

PAERI:

- 2019-10-30 1245z: Outside fan unplugged briefly to clear snow.
- 2019-10-31 1349z: Outside fan unplugged briefly to clear snow. 1405z Red Flags for LW and SW Responsivity. 1443z Flags turned Yellow and eventually cleared themselves.

IceCAM:

- Operating normally.

IcePIC:

- No IcePics this week.

CLASP:

- Operating normally.

CPC:

- 2019-10-30 1505z: Butanol refilled and condensate emptied. 1600z carbon filter changed.
- Operating normally.

MSF - OPC:

- Operating normally.

TAWO - OPC:

- Operating normally.

SKYOPC:

- Operating normally.

INP Freezing Assay:

- 2019-10-30 1344z: Filter samples collected from TAWO, weekly INP sample assays run, and data sent.

Fluxtower instrument suite:

- Shield repair for the HMP2 will commence when weather and tasking supports a tower climb.
- Operating normally.