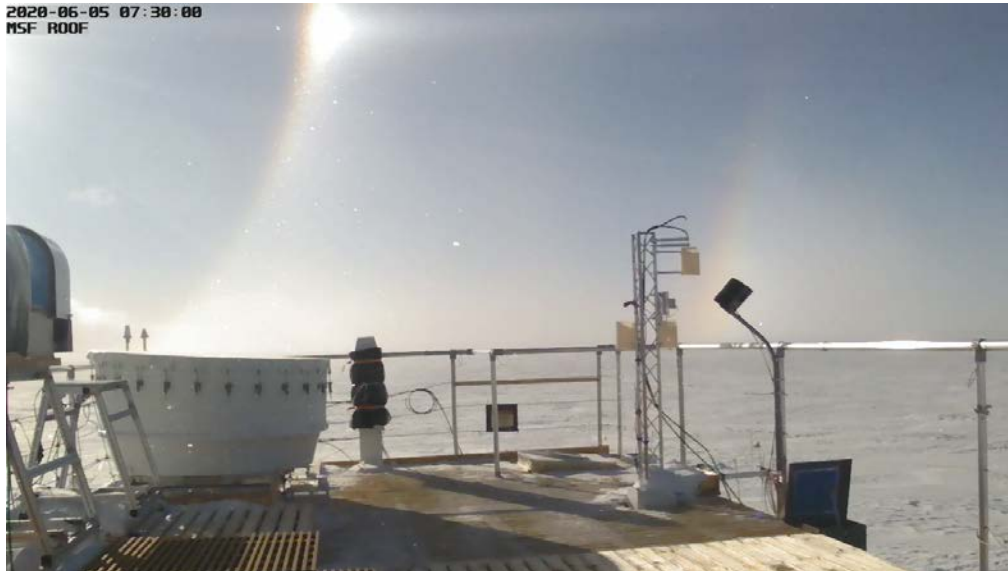


ICECAPS-ACE Weekly Report

June 1 – June 7, 2020

Ian Geraghty



22° halo with parhelia and a faint 46° halo seen on ICECam photos from June 5.

General Notes:

With flight period 4 officially cancelled, we are thinking proactively about what tasks we can tackle this summer to ensure a smooth winter season.

General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp (C)	Notes
06-01	12	4kts from 241	FZFG	800	BKN000	-20	
06-02	12	5kts from 239	IC	9999	SCT032 BKN100	-17	
06-03	12	7kts from 235	BR	4800	SCT065	-17	
06-04	12	12kts from 257	-SN	1200	OVC016	-18	
06-05	12	10kts from 264	IC	9999	FEW032	-25	
06-06	12	12kts from 225	-SN	3200	OVC015	-11	
06-07	12	10kts from 216	-SN	1600	SCT015 SCT032	-13	

Significant Weather Observations:

- 2020-06-05 0700 – 0830Z: 22° and 46° halo seen in IceCAM photos.

MSF

- Operating normally.

ICECAPS-ACE Data Management:

- 06-01: Data transfer completed at 0448Z.
- 06-02: Data transfer completed at 0443Z.
- 06-03: Data transfer did not occur. Older MASC file sent one of the dataman scripts into an infinite loop until computer could be rebooted. Matt made adjustments to code.
- 06-04: Included 06-02 and 06-03 data. Data transfer started at 2232Z and finished at 0616Z.
- 06-05: Data transfer completed at 0525Z.

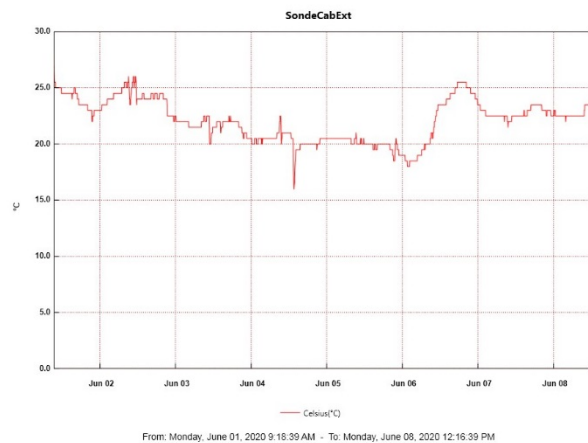
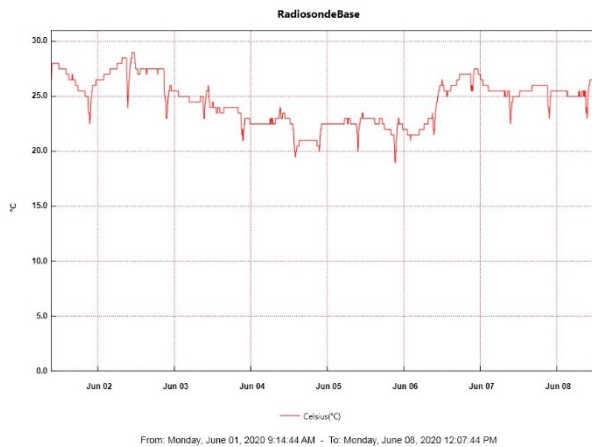
- 06-06: Data transfer completed at 0450Z.
- 06-07: Data transfer completed at 0537Z.

TSI:

- 2020-06-01 1428Z: TSI Manager software rebooted to reinitialize image processing.
- 2020-06-02 1258Z: TSI Manager software rebooted to reinitialize image processing.
- 2020-06-03 1350Z & 2336Z: TSI manager software rebooted to reinitialize image processing.
- Operating normally. No reboots necessary since 2020-06-03.

Radiosonde:

- 2020-06-03: 1200Z radiosonde was terminated due to excessive missing GPS heights at 26437m.
- 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:

- Operating normally.

POSS:

- 2020-06-04: Noticed that the Telebyte display was showing that it was connected to POSS and transmitting data every minute. Still no data coming through in POSACQ software.
- 2020-06-05 1545 - 1732Z: Tried restarting POSACQ, power cycling Telebyte, and checking connections between Telebyte and PC, but still no data coming through in POSACQ.
- Offline. Troubleshooting with manufacturer ongoing.

MASC:

- 2020-06-02: Remounted to dataman PC to enable data transfers.
- 2020-06-05 1327Z: Watchdog stopped updating and camera 1 started missing images at 2125Z on 2020-06-04. Issue was resolved after software was restarted.
- Operating normally.

MMCR:

- Operating normally. Monitoring transmitter power fluctuations.

CAPABL:

- Operating normally.

MPL:

- Operating normally.

CEILOMETER:

- Operating normally.

PAERI:

- Operating normally.

IceCAM:

- 2020-06-03: Images for 0130 – 1100Z were missed due to dataman PC issue.
- Operating normally.

IcePIC:

- No IcePICs taken this week.

CLASP:

- Offline.

CPC:

- Offline.

MSF - OPC:

- Operating normally.

TAWO - OPC:

- Operating normally.

SKYOPC:

- Operating normally.

INP Freezing Assay:

- 2020-06-03: Weekly experiments completed.

Fluxtower instrument suite:

- 2020-06-06: Snow depth sensor cable repaired.
- Operating normally.

Radiometers:

- 2020-06-01: Completed weekly data download.
- Operating normally.