ICECAPS-ACE Weekly Report

June 14th– June 20th, 2022 Nicolette Ratz



Science Technician, Nicolette, set to release a radiosonde balloon 2022-06-17 *Photo taken by: Andrew Chapman*

General Notes:

This week Science Technicians—Alicia and Nicolette—began launching radiosondes after obtaining a much-needed permit (06-15). The MWR and SoDAR experienced unexpected shutdowns (06-17); both restored with a power cycle (06-17). Continuity testing of the V2 junction box was completed (06-17), leading to plans for its replacement via the V1 junction box—so long as cable length allows. Lastly, Nicolette and John configured the MASC (06-20) and hope to deploy the instrument soon.

General Weather Observations:

Date	Time	Wind	Weathe	Visibility	Sky	Temp	Notes
	(Z)	(kt)	r			(C)	
06-14	1200	26	DRSN;	800	SCT060	-10	
			IC				
06-15	1200	14	BLSN	1500	BKN030	-10	
06-16	1200	17	IC	9999	FEW060	-7	
					BKN090		
06-17	1200	15		9999	SCT060	-8	
06-18	1200	27	BLSN	500	OVR020	-12	
06-19	1200	29	DRSN	1200	OVR020	-15	
06-20	1200	5	FZFG	750	FEW000	-16	Horizon obscured by FZFG

Significant Weather Observations:

• No significant weather observations made

MSF

- Unplanned power outage 2022-06-15
 - o approx.1840z-1852z for switch to emergency generator
 - o 1905z-1906z for switch back to main generator
- Planned power outage 2022-06-18:1530z-1532z for generator maintenance

ICECAPS-ACE Data Management:

- 'To Boulder' file not empty 2022-06-15 due to continued troubleshooting of Dataman computer—operating normally 2022-06-16
- Data transfer complete 2022-06-14:0402z
- Data transfer *did not* complete 2022-06-15
- Data transfer complete 2022-06-16:0402z
- Data transfer complete 2022-06-17:0344z
- Data transfer complete 2022-06-18:0418z
- Data transfer complete 2022-06-19:0429z
- Data transfer complete 2022-06-20:0459z

TSI:

- Anomalous behavior 2022-06-14; restored by disconnecting and reconnecting power cables 2022-06-15
- Operating normally

Radiosonde:

- Radiosonde launches started 2022-06-15:2315z; one balloon lost due to falling off the balloon table 2022-06-15
- Operating normally

MWR:

- Unexpectedly powered off 2022-06-17; restored with power cycle 2022-06-17:0934z
- R2CH.EXE program experienced window-sizing issue 2022-06-19; restored with computer reboot 2022-06-19:1713z

SODAR:

- Instrument unexpectedly powered down 2022-06-16:1401z; restored with power cycle 2022-06-17:1658z
- Amplifier turned off for weekly cleaning 2022-06-20:1139z-1152z

POSS:

• Operating normally

MASC:

- Instrument configured 2022-06-20; plans to finalize cable connections and power on with John later in the week
- Offline

MMCR:

• Operating normally

MPL:

• Operating normally

CEILOMETER:

• Operating normally

PAERI:

• Expected to return in August

IceCAM:

• Operating normally.

IcePIC:

• No images captured this week

MAGIC CPC:

• Operating normally

MSF - OPC:

- Offline
- Expected installation in August

AWO - OPC:

- Offline
- Expected installation in August

SKYOPC:

- Offline
- Expected installation in August (AWO)

Flux Tower instrument suite:

- V2 junction box continuity testing conducted 2022-06-17:1300z—found broken solder connection; plans to replace V2 junction box with V1 junction box if cable length allows
- HMP4 Aspirated shield found defective by Heather Guy 2022-06-09; plans to replace with HMP1 Aspirated shield
- V2 not communicating, found with snow accumulation indicating loss of function 2022-02-01

Radiometers:

- Albedo Stand operating normally
- Solar Tracker replacement expected in August