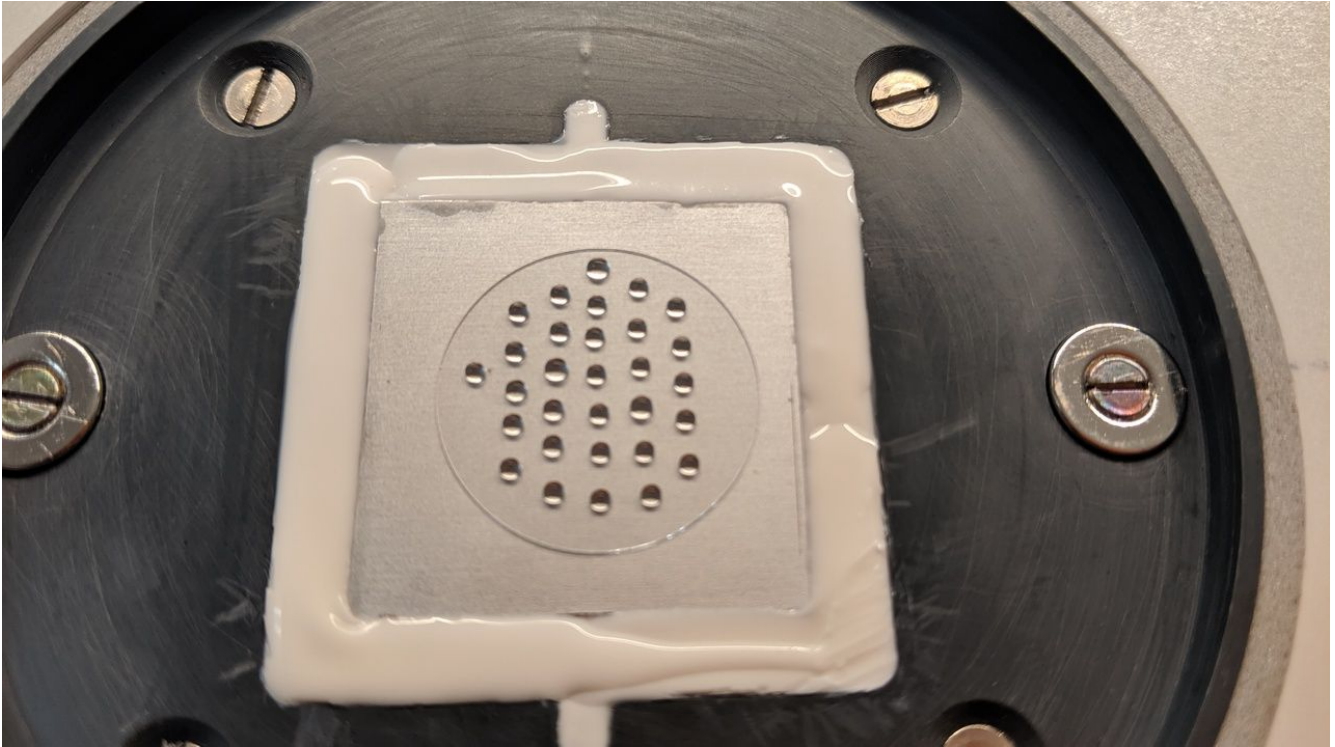


# ICECAPS-ACE Weekly Report

Week 25, June 17- June 13, 2019

Jonathon Miller



Water droplets ready for INP freezing assay.

## General Weather Observations

Date	Time (UTC)	Temp (°C)	Wind (kt / dir)	Weather	Visibility	Sky	Notes
June 17	12:20	-13	0 / 0°		9999	FEW	
June 18	11:48	-17	0 / 0°	FZFG	500	BKN002	
June 19	16:07	-8	8 / 284°		4800	OVC035	
June 20	12:03	-9	8 / 274°		3200	OVC012	
June 21	12:06	-12	10 / 208°	-SN	4800	FEW065	
June 22	12:53	-8	19 / 192°	-SN	1600	OVC001	
June 23	12:15	-15	12 / 237°		9999	SCT020	

## ICECAPS-ACE Data Management Transfer

Date	Transfer Complete (UTC)
June 17	04:19:52
June 18	04:22:07
June 19	04:19:12
June 20	04:52:45
June 21	04:51:22
June 22	05:02:11
June 23	04:58:13

### Mobile Science Facility (MSF)

#### June 18

- At 11:00 UTC, a planned power shutdown was initiated and lasted approximately 3 minutes.
- The MSF remained on UPS power with no issues.

### Microwave Radiometers (MWR)

- Operating normally.

### SONic Detection And Ranging (SODAR)

#### June 22

- At 13:25 UTC, the SODAR amplifier was turned off and the dishes leveled and cleaned of snow.
- At 13:32 UTC, the SODAR amplifier was turned back on.

### Precipitation Occurrence Sensor System (POSS)

- Operating normally.

### Millimeter Cloud Radar (MMCR)

- Operating normally.

### Cloud Aerosol Polarization and Backscatter Lidar (CAPABL)

#### June 20-22:

- The Cloud Aerosol Polarization and Backscatter Lidar (CAPABL) was successfully installed and tested in the mobile science facility (MSF).

## **Micro-Pulse Lidar (MPL)**

- Operating normally.

## **Laser Ceilometer**

- Operating normally.

## **IceCAM**

- Operating normally

## **Polar Atmospheric Emitted Radiance Interferometer (PAERI)**

- Operating normally.

## **Total Sky Imager (TSI)**

- Serial connection errors between the controller and laptop postponed the mirror alignment procedure.
- System is currently offline.

## **Ice Particle Image Camera (ICEPic)**

- No images.

## **Radiosonde**

- Launched twice daily.

## **Multi-Angle Snowflake Camera (MASC)**

- Waiting for SOP update.
- Image data is currently waiting for scripts to process and transfer images to the Dataman computer.

## **MSF - Optical Particle Counter (OPC)**

- Quicklooks graph have been updated and is currently updating.

## **TAWO - Optical Particle Counter (OPC)**

- Quicklooks graph have been updated and is currently updating.

## **Sky Optical Particle Counter (SKYOPC)**

- Quicklooks graph have been updated and is currently updating.

## **Condensation Particle Counter (CPC)**

- Quicklooks graph have been updated and is currently updating.

## **Compact Lightweight Aerosol Spectrometer Probe (CLASP)**

- Quicklooks graph not updating

## **Fluxtower Instrument Suite**

- The fluxtower Quicklooks display indicates all instruments are operating normally.

## **Ice Nucleating Particles (INP) Freezing Assay**

- Weekly INP assays being conducted.

## **Aerosol Vertical Profiler (AVP)**

- The AVP drone was configured and tested at MSF. The system is mostly automated and SOP is currently being updated.
- Profiles will be conducted several times a week.