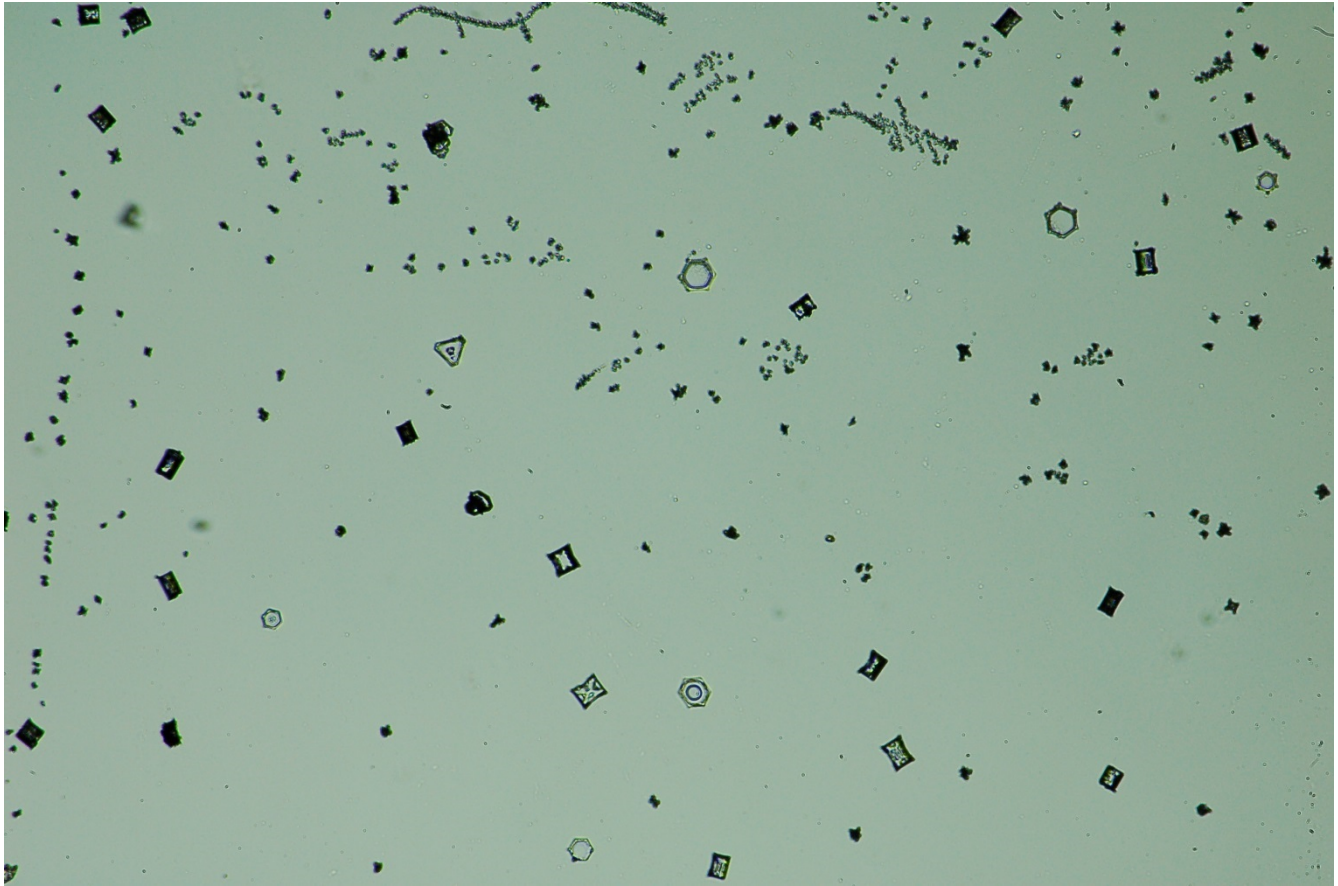


# ICECAPS-ACE Weekly Report

April 1 – April 7, 2019

Nate Bowker



*Diamond dust and frost, photographed on 4-6.*

**General Notes:** 4-4 saw the arrival of 4 additional crew members to assist with preparations for the fast approaching summer season.

## General Weather Observations:

Date	Time (Z)	Wind	Weather	Visibility	Sky	Temp	Notes
4-1	12	13kt from 120	FZFG	600	FEW100	-42	
4-2	12	16kt from 170	FZFG DRSN	300	BKN060	-36	
4-3	12	30kt from 180	BLSN	100	VV003	-19	
4-4	12	9kt from 280		9999	FEW100	-38	
4-5	12	16kt from 220	FZFG DRSN	800	FEW016 FEW060	-36	
4-6	12	18kt from 180	DRSN	9999	BKN070	-26	
4-7	12	10kt from 170	BR	1600	SCT210	-29	

## Significant Weather Observations:

- 4-3 2100Z: Lenticular clouds observed near station.
- 4-6 1700-2000Z: Diamond dust resulted in some of the first solar optics of the season, including a 22 degree halo and parhelia.

**ICECAPS-ACE Data Management:**

- 4-1: Data transfer completed at 1040Z.
- 4-2: Data transfer completed at 1019Z.
- 4-3: Data transfer completed at 1009Z.
- 4-4: Data transfer completed at 1007Z.
- 4-5: Data transfer completed at 1032Z.
- 4-6: Data transfer completed at 1008Z.
- 4-7: Data transfer completed at 1041Z.

**MWR:**

- Operating normally.

**SODAR:**

- 4-7 1011-1022Z: Removed snow from dishes.
- Operating normally.

**POSS:**

- 4-3: Errors “DC offset”, and “max noise limit” occurred.
- Operating normally

**MMCR:**

- 4-2: Cleared Labview error (Error 7) and resumed normal operation.
- 4-3 1415Z: Changed TWTA dry air desiccant.
- Temp (outside) value continues out of tolerance (at 30)
- Operating normally.

**CAPABL:**

- Instrument currently offline.

**MPL:**

- Operating normally.

**VCEIL:**

- Operating normally.

**IceCAM:**

- Operating normally

**PAERI:**

- 4-4 0908Z: Cleaned scene mirror.
- Operating normally.

**TSI:**

- Offline for winter season.

**IcePIC:**

- 4-6: Two sampling sessions photographed and uploaded.

**Radiosonde:**

- 4-4 1200Z: Balloon burst altitude just over 14km.
- 4-6 1200Z: Balloon burst altitude just under 15km.
- 4-7 0000Z: Flight terminated prematurely due to GPS week number rollover
- 4-7 1200Z: Two launches failed due to lack of GPS launch trigger associated with GPS week number rollover.
- Twice daily launches.

**MASC:**

- Instrument offsite for repair, will not return until summer 2019.

**OPC:**

- Operating normally.

**CLASP:**

- Instrument off site.

**CPC:**

- Operating normally