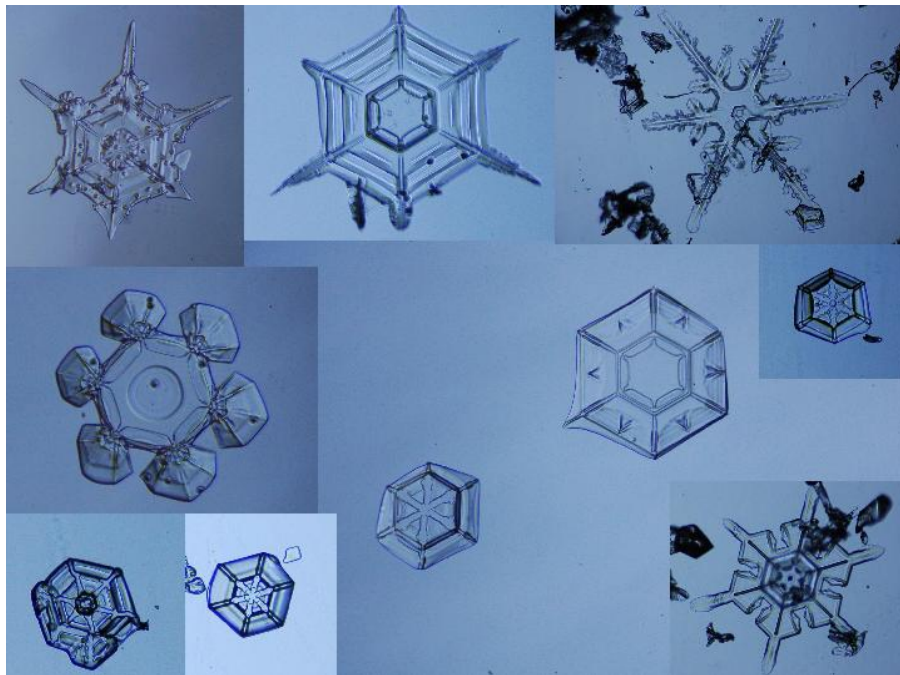


# ICECAPS Weekly Report

June 27, 2016 – July 3, 2016

Hannah James



No exciting photos from this week, so here is a collage of some of last week's IcePICs. -HJ

## General:

- The Vieregg group (University of Chicago and Harvard) arrived on station 6/29. They are installing a 183 GHz water vapor radiometer on the MSF roof, to test Summit Station's potential as a future site for cosmic microwave background experiments. The radiometer will remain on the MSF roof for the next year. Andy Clarke and Christy Schultz from NOAA installed temperature, pressure, and humidity sensors on the 50-meter tower at 2 and 10 meter heights.

## Significant Weather Observations:

- 6/27: Few cirrus. -11C, 9 kts. Unlimited visibility. 0000z: fogbow and corona
- 6/28: Few altocumulus, sct cirrostratus, sct cirrus. Unlimited visibility. -10C, 5kts. 0000z: fogbow.
- 6/29: Sct altocumulus, bkn cirrus. -7C, 10 kts. Unlimited visibility.
- 6/30: Bkn ground fog in morning, bkn cumulus throughout the day. -10C, 11 kts. Visibility 1200m.
- 7/1: Few cirrus. -10C, 14kts. Unlimited visibility. 0940z- corona, 1120z- parahelia.
- 7/2: Bkn altocumulus. -9C, 11kts. Visibility 5000m. 0000z-fogbow. 1900-2000z- corona
- 7/3: Bkn altostratus, bkn cirrus. Clearing to sct altocumulus mid-day. -10C, 4 kts. Visibility unlimited.

## Dataman Account:

- 6/27: Data transfer complete 1234z.

- 6/28: Data transfer complete 1939z.
- 6/29: Data transfer incomplete. 151 MB to go as of 1600z.
- 6/30: Data transfer complete 1104z.
- 7/1: Data transfer complete 1312z.
- 7/2: Data transfer complete 1043z.
- 7/3: Data transfer completed 1559z.

**MWR:**

- HATPRO removed for repairs.

**SODAR:**

- Operating normally.

**POSS:**

- Operating normally.

**MMCR:**

- Operating normally.
- Roll remains at 0.32 degrees.
- Pitch/roll verified with levels. The building is settling towards the south. Matt Shupe advised to not re-level for now due to predicted south winds pushing the building back towards a northern tilt.
- 7/1: Roll moving from 0.22 to 0.32 degrees.
- 7/3: Roll steady at 0.32 degrees.

**CAPABL:**

- Robert Stillwell on station through Wednesday, 6/29.
- Operating normally.

**MPL:**

- Operating normally.

**VCEIL:**

- Operating normally.

**Hotplate:**

- Off site for repairs since 6/9/2016.

**IceCAM:**

- Operating normally.
- 7/2: 1230 and 1245 camera off centered- bumped during some table movement on MSF roof. Re-centered at 1255z.
- 7/2: Moved the camera around a little to try to fit the new Vieregg radiometer location into the picture.

**PAERI:**

- Operating normally. Detector Temp flag is turning yellow less frequently than previous weeks.

**TSI:**

- Operating normally.
- 6/28: 0433-0434z: Distorted images. Returned to normal afterwards.
- 6/30: 0112-0113z: Pink filtered images. Returned to normal afterwards.

**IcePIC:**

- 6/30: Rime from last night gathered on slide at 1310 and photographed.

**Radiosonde:**

- Twice daily soundings except for the following:
- 6/27: No morning balloon launched due to scheduled ANG arrival at 0930 local.
- 6/28: No morning balloon launched due to scheduled ANG arrival at 0945 local.
- 6/29: No morning balloon launched due to scheduled ANG arrival at 1000 local. Evening balloon not launched due to continuous temperature errors with sondes. During the morning launch it was discovered the sondes themselves were faulty, not the software.

**MASC:**

- Offsite for repairs since 5/3/2016.