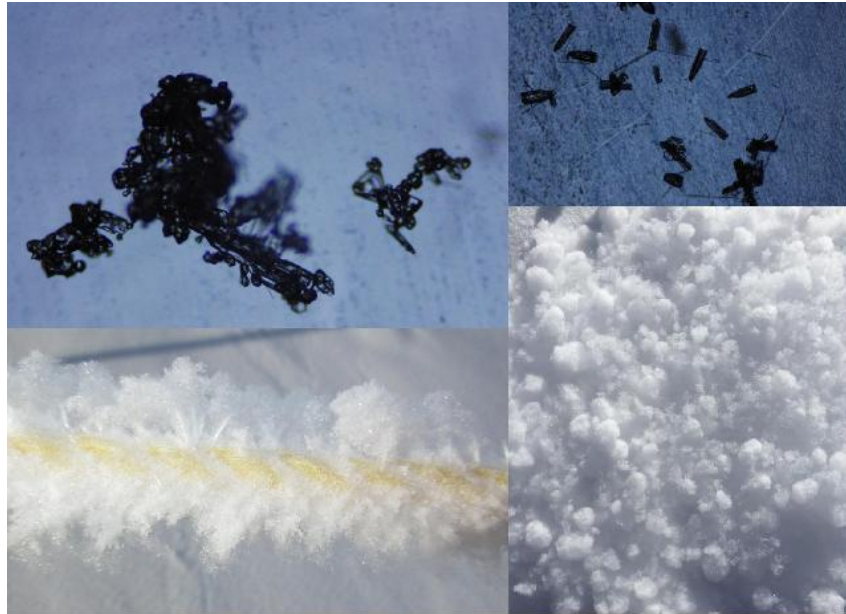


# ICECAPS Weekly Report

March 13 – March 19, 2017

Hannah James



A closer look at a frosting (left) and yukimarimo (right) event on Friday. -HJ

## General:

None to report.

## Significant Weather Observations:

- 03-13: Ic, Br on horizon. Sct stratus. -35C, 2 kts. 11:00-12:30Z: Parhelia and column, 12:30Z: corona.
- 03-14: Ic. Bkn stratus, bkn altocumulus. -35C, 9 kts. 11:00-13:00Z halo and parhelia.
- 03-15: Ic, Br in far distance. Few cirrocumulus. -43C, 4 kts. 13:00-14:00Z: halo, start of parhelic circle, and fata morgana. 15:00-16:00Z- corona.
- 03-16: Few stratus, few cirrocumulus. -47C, 9 kts.
- 03-17: Br, Ic. Few cirrocumulus. -45C, 10 kts. 11:00-13:00Z: Halo, sub-horizon halo. Yukimarimo present and forming in the morning. Only observed downwind of frosted objects (buildings, flags, instruments etc). Surface and objects covered in a “cauliflower” like snow- very fluffy and dry on top of hoar frost. Some areas were very concentrated (see photo above, taken beneath a frosted instrument), other areas had only 1-2 yukimarimo per square meter. 15:00-16:00Z: Lower tangent arc.
- 03-18: Br. Few stratus, bkn cirrostratus. -48C, 11 kts. 18:00Z- halo. 18:32Z- beginning of parhelic circle, upper tangent arc.
- 03-19: -SG, Drs. Few stratus, bkn cirrostratus, bkn cirrus. 13:00-18:00Z: IC, halo.

**ICECAPS Data Management:**

- 03-13: Data transfer complete 11:06Z.
- 03-14: Data transfer complete 10:38Z.
- 03-15: Data transfer complete 11:53Z.
- 03-16: Data transfer complete 14:22Z (many IcePICs from yesterday).
- 03-17: Data transfer complete 10:32Z.
- 03-18: Data transfer complete 16:14Z (many IcePICs from yesterday).
- 03-19: Data transfer complete 10:52Z.

**MWR:**

- Operating normally.

**SODAR:**

- Operating normally.

**POSS:**

- Operating normally.

**MMCR:**

- Operating normally.
- Pitch 0.00, roll -0.11 as of 03-19.

**CAPABL:**

- Operating normally.
- 03-13: Disk boot error discovered on daily rounds. Computer was powered down, and then restarted. LabView was not able to open, so while on the phone with Robert the motor controllers, computer, Licel, and Meadowlark were all power cycled. The motors were homed, and LabView was opened. A realignment was performed, resulting in the top screw being rotated approximately 270 degrees CCW. CAPABL was running at 14:33Z, but "Save Data" was discovered unchecked at 17:25Z.

**MPL:**

- Operating normally.

**VCEIL:**

- Operating normally.

**Hotplate:**

- Offsite for repairs since 2016-6-9.

**IceCAM:**

- Operating normally.

**PAERI:**

- Operating normally.

**TSI:**

- Stored in MSF for winter.

**IcePIC:**

- 03-14: Slides placed for collection 13:15-13:37Z. Particles photographed include hexagonal plates, bullet rosettes, radiating plates, and irregulars.
- 03-15: Slides placed for collection 13:20-13:45Z. Particles photographed include isolated bullets, bullet rosettes, sheaths, simple prisms, hollow columns, and some radiating plates.
- 03-17: Frost from MSF railing collected during a yukimarimo event, as well as an individual yukimarimo. Photos taken 13:33Z. Particles photographed include graupel, sheaths, simple needles, bullet rosettes, hollow columns, and some radiating disk. One triangular ice crystal seen.

**Radiosonde:**

- Twice daily soundings.
- Ongoing troubleshooting dealing with \*.mxw and \*.spf files not being grabbed by Dataman. For now, every other day I will manually change the permissions.

**MASC:**

- Offsite for repairs since 2016-05-03.