

ICECAPS Weekly Report

May 9, 2016 – May 15, 2016

Hannah James



A sample of this week's IcePICs. Two 12-sided stellar dendrites were photographed, as well as dendrites, capped bullets, stellar plates, and many other forms. -HJ.

General:

- None to report.

Significant Weather Observations:

- 5/9: Blowing snow limiting visibility to 600-800m throughout the day. Vertical visibility is good. -10C, 23kts. Halo visible throughout the morning.
- 5/10: Blowing snow limiting visibility to 100m at times. Cirrostratus clouds. -10C, 30kts. 2005z: Halo, parahelic circle, upper tangent arc, circumzenithal arc all visible- AMAZING!
- 5/11: Few stratus and cirrus clouds, unlimited visibility. -25C, 7kts.
- 5/12: Sct stratus, Bkn altocumulus and cirrus. Light snow (broken dendrites, stellar plates, and ice crystals) with blowing snow. -10C, 19kts. 1932z: sun dog. 2017z: halo.
- 5/13: Bkn to ovc stratus clouds. High cirrus clouds early in the morning. -10C, 15kts. Snowing throughout the day, visible dendrites. 1945z: sun dog.
- 5/14: Blowing snow reducing visibility to 400m at times. -11C, 26kts with gusts up to 40kts.
- 5/15: Few stratocumulus, sct cirrus. -20C, 8kt winds. Unlimited visibility throughout the day, IC. 1220-1240z: Parahelic circle, upper and lower tangent arc, halo, sun dogs, infralateral arc. 1250z: Corona.

Dataman Account:

- 5/9: Data transfer complete at 1432z.
- 5/10: Data transfer completed 1252z.
- 5/11: Data transfer completed 1210z.
- 5/12: Data transfer completed 1244z.
- 5/13: Data transfer completed 1308z.
- 5/14: Data transfer completed 0926z. CAPABL mount missing, remounted. IcePICs also potentially not transferred. Retransferred to Dataman manually.
- 5/15: Data transfer completed 1500z.

MWR:

- HATPRO removed for repairs.

SODAR:

- Operating normally.

POSS:

- Operating normally.

MMCR:

- Operating normally.
- The +5 V (#1 and #2) interface buses are reported as out-of-spec in the Labview display since 4/29/16. However, the physical test points on the interface unit show these buses to be near the specified 5 V.
- Cable MPP8 disconnected (roll, pitch and outdoor temperature sensors) since 4/19.

CAPABL:

- Operating normally.
- 5/12: Shut down from 12:43-13:03z to clean water droplets off exterior window.
- 5/14: Disk book error found during daily checks. System offline from 1241-1303z. Mount missing, remounted drive on Dataman. Systems running normally after reboot.

MPL:

- Operating normally.
- 5/10: Old data deleted, mount now at 64%

VCEIL:

- Operating normally.

Hotplate:

- Operating normally.

IceCAM:

- Operating normally.

PAERI:

- Operating normally.

- 5/9: SW Responsivity and LW Responsivity red flags due to high winds. Cleaned mirror.
- 5/10: SW Responsivity, LW Responsivity, LW HBB NEN, and SW HBB NEN red flags due to high winds. Cleaned mirror at 1391z.

TSI:

- Stored in MSF and awaiting warmer temperatures for redeployment.

IcePIC:

- 5/12: Slides placed for collection 1140-1324z. Images photographed include hexagonal plates and irregulars. Slides placed for collection again on lee side of MSF at 1336z. Images photographed include hexagonal plates, broken sector plates, and stellar plates. Placed again for collection 1934-2007z. After initial samples were taken, collected more by holding slide outside IcePIC shed (2018-2024z) Images photographed include radiating dendrites, stellar plates, capped bullets, and one 12-branched star.
- 5/13: Slides placed for collection 1150-1245z. Images photographed include stellar plates, stellar dendrites, split plates, and sector plates. Slides then held outside IcePIC shed while flakes fell at 1305z. Images photographed include fern-like stellar dendrites, stellar dendrites, simple stars, split stars, and one 12-branched stellar dendrite.
- 5/14: Photos potentially did not transfer from Dataman. Emailed PIs and uploaded this week's photos to Dataman computer.

Radiosonde:

- Twice daily soundings.
- 5/9: Evening sonde failed due to high winds. No relaunch.
- 5/10: K-sonde used for morning launch due to high winds. Issue with evening launch message being sent.

MASC:

- Offsite for repairs since 5/3/2016.