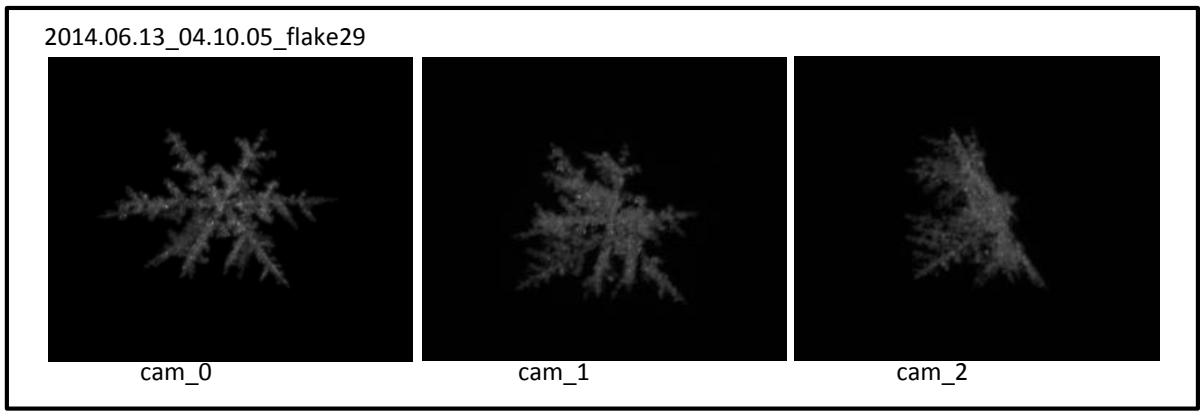
ICECAPS Weekly Report

June 9 – June 15, 2014
Lana Cohen

New instruments installed near SODAR (left to right: POSS, Hotplate, MASC, SODAR).



Snowflake image captured by the MASC.

General:

- Two LC-130 flights out on the 11th, with 33 folks leaving camp.
- New instruments installed and running (Hotplate sensor and MASC imager).

Significant Weather Observations:

- 6/9: mostly clear, 10-15kts
- 6/10: overcast, blowing snow 15-20kts
- 6/11: low cloud in morning lifting; high cirrus
- 6/12: no cloud; fog/low cloud from ~1800Z
- 6/13: morning fog, lifted in afternoon, calm
- 6/14: mostly clear skies, with high cirrus moving in through the day, calm
- 6/15: clear skies, calm

Dataman Account:

- 6/11: Many lost connection messages during the overnight transfer. File still transferring throughout the day.
- 6/12: Many lost connection messages during the overnight transfer. File still transferring throughout the day.
- 6/13: Many lost connection messages during the overnight transfer. File still transferring throughout the day.
- 6/14: Data transfer went last night with no dropped connections (don't think SRI actually changed anything).
- 6/15: Most data not transferred last night—no dropped connections, just very slow?

MWR:

- 150-90: operating normally.
- HATPRO: out for calibration and repairs.

SODAR:

- Operating normally.

POSS:

- Operating normally.

MMCR:

- Operating normally.

CAPABL:

- Operating normally.
- 6/11: Intermittent problems with dataman mount (due to network disconnect?) results in "not enough free space on disk" error.
- 6/12: Filled Laser 2 water and tightened hose clamps (there was a slight leak).

MPL:

- Operating normally.

VCEIL:

- Operating normally.

Hotplate:

- Seems to be operating fine, transferring data. (Question: The ambient temperature reported by sensor seems to be ~5-10C higher than NOAA data and pressure is ~sea-level. Is this ok?)

IceCAM:

- Operating normally.

PAERI:

- Operating normally.

ASIA-A:

- Operating normally.

TSI:

- Operating normally.

IcePIC:

- No flakes/crystals captured this week.

MASC:

- Several images captured on 6/13 during a very light precip event.

Radiosonde:

- Twice daily sondes (no longer using K-sondes).
- 6/11: Changed desiccant on sonde reconditioning unit.
- Two sondes this week had RH sensor that were out of spec (RH after reconditioning > +/- 0.2%).
- There have been several days this week during low-wind conditions (< 5kts) when the RH measured by sonde is up to 20% different than the NOAA-measured RH (which is ~1/2 mile away). I used the Kestral to measure RH right next to the sonde, and they have matched up w/in 5%.
- Questions: Do we still want to do dual launches with ozonesondes when they switch over to the iMets (which have GPS included)? Retro K-sondes?