

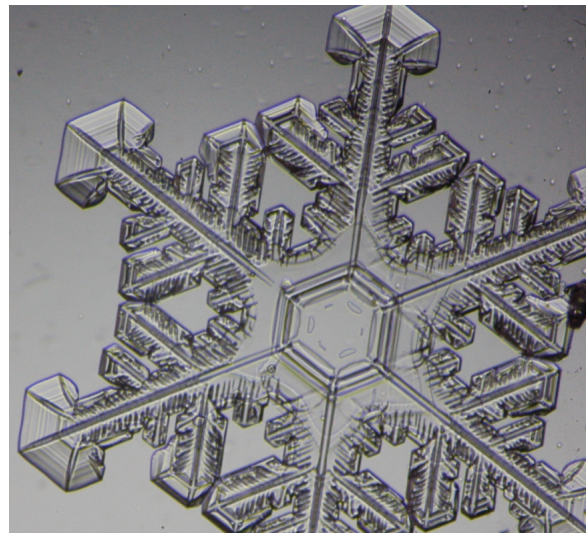
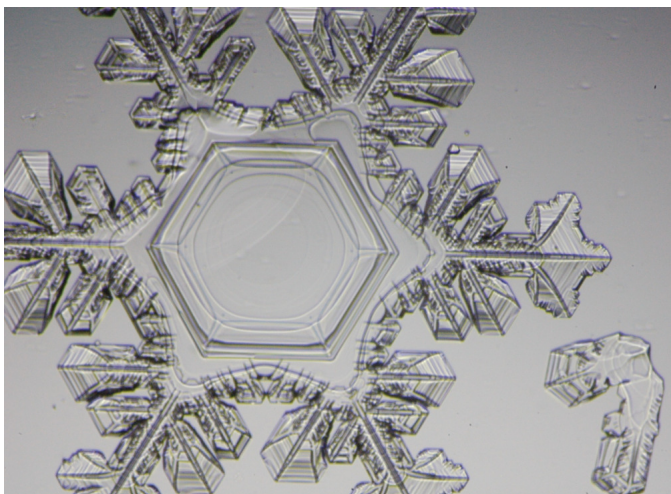
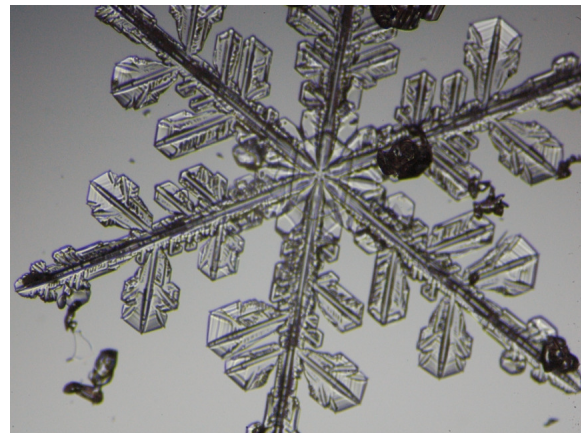
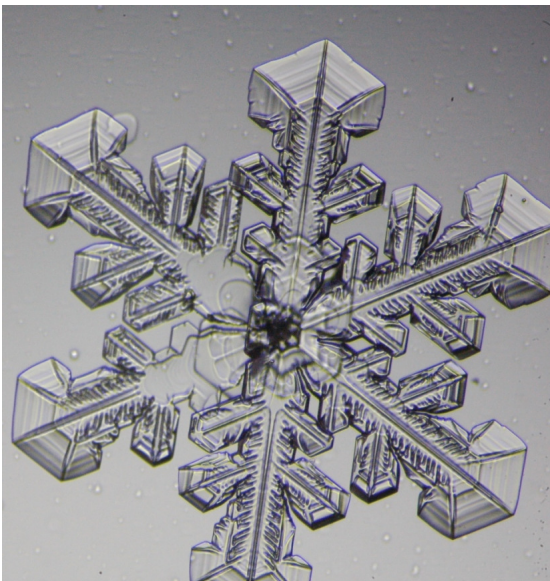
Summit Station Weekly Science Report

Reporting Period: Sept 2-Sept 8, 2013

Completed by: Shawntel Stapleton, David Benson, Lana Cohen

Comments: This week we are progressing on unfinished projects, tidying up science areas, and participating in camp cleanup and winter over trainings. The NOAA 10M wind bird is back up and running well. We are continuing to diagnose issues for getting a second bird going, at the top of the TAWO tower, with help from the NOAA team back in the States. It has been quite windy this week and we can feel the temperatures dropping already. Otherwise, there is still a fair amount of station maintenance, including organizing equipment and materials to be winterized, moving snow and grooming to prevent significant drifting.

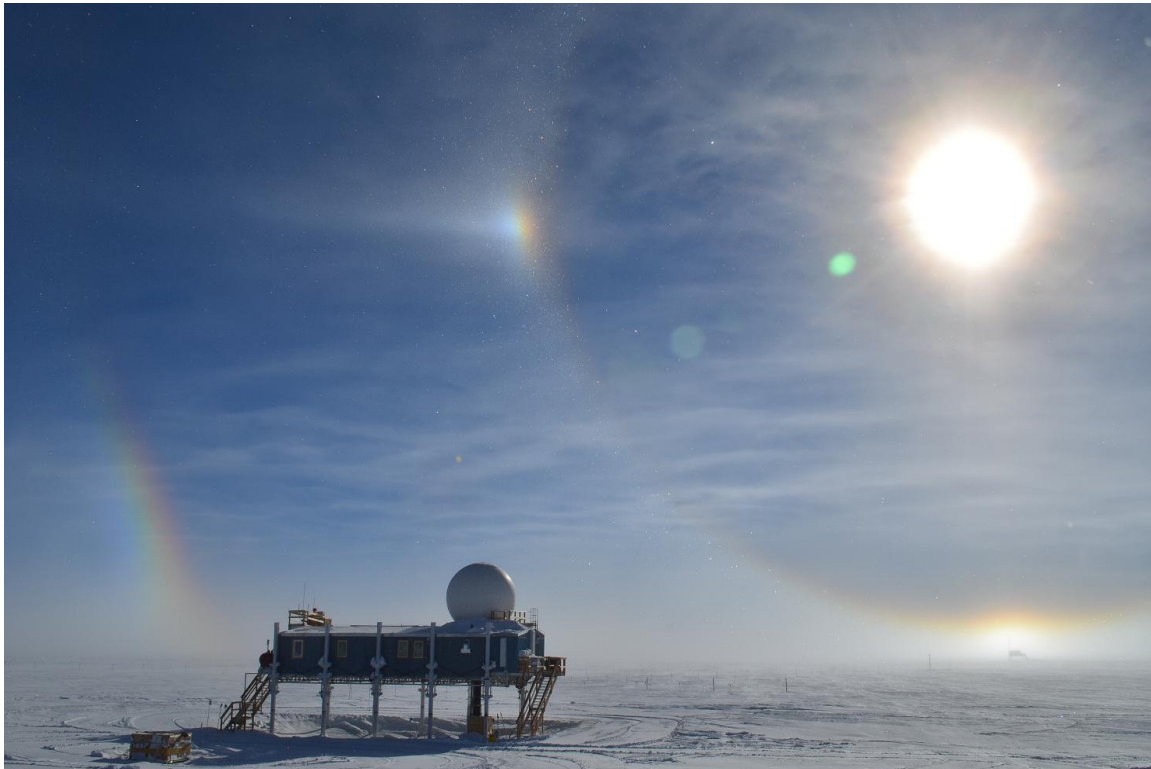
For the ICECAPS projects, a couple of storms this week provided excellent opportunities for capturing pictures of snowflakes. These images are invaluable for providing a link between what is remotely sensed with the instruments and what we actually see on the ground.



It has also been a good week for sundogs and halos (which are indicative of plate-shaped hexagonal ice crystals in the atmosphere).

The first photo below is a sundog and double-halo with TAWO glowing in the background.

The second photo is a sunset sundog.



Please visit the clean air log at <ftp://ftp.summitcamp.org/pub/data/GEOSummit/Clean%20Air%20Traffic/>

Facilities	Comment
TAWO	
MSF	
Green House	
Experiment	Notes
NOAA CATS GC	Comment: % of time operating: 100%
NOAA CCGG flasks	Comment: Sample collection date(s): 9/2/2013
NOAA HATS flasks	Comment: Sample collection date(s): 9/2/2013
NOAA Surface Ozone	Comment: % of time operating: 100% Data on ftp server: 9/2/2013
NOAA Aethelometer	Comment: Was taken offline on 8/18/2013, in order to access NOAA Met Suite connections. Will be put back online when NOAA Met installation is complete. % of time operating: 0% Data on ftp server: n/a
NOAA Met Suite	Comment: 10M wind bird is online and running most of the time. We are diagnosing issues for the new wind bird, and must take the 10M bird offline occasionally to assist in troubleshooting. % of time operating: 98%
NOAA Ozonesonde	Comment: Dual launch with ICECAPS radiosonde throughout the summer months. Date launched: 9/5/2013
NOAA Clidar	Comment: Not collecting data. % of time operating: 0%
NOAA CLAP/PSAP/Neph	Comment: % of time operating: 100%
NOAA Radiometers	Comment: % of time operating: 100%
NOAA Firn Air Sampling	Comment:
Radionuclide filter	Comment: % of time operating: 100%
Aerosol DRUM sampler	Comment: Taken offline and returned to PI. % of time operating: 0%
UCM Surface Samples	Comment: Delays due to North winds. Sample collection date(s): 9/2/2013 Data on ftp server: 9/2/2013
DRI Surface Samples	Comment:

	Sample collection date(s): 9/2/2013 Data on ftp server: 9/2/2013
UCM Snow Pit	Comment: Sample collection date: 8/13/2013
UCM String Pit	Comment: Last laid String 9/2/2013. Measurement date:
Bamboo Forest	Comment: Observation date: 9/4/2013 Data on ftp server: 9/4/2013
ICESat accumulation	Comment: Observation date: 8/23/2013
BSI UVSIMN	Comment: The BSI instrument software has occasional been nonoperational; we are troubleshooting with the BSI team. Installed new cable for PSP ventilator. % of time operating: 85%
Hanka Seismometer	Comment: % of time operating: 100%
UNAVCO	Comment:
Helmig GC	Comment: % of time operating: 100%
Kramer NOx	Comment: % of time operating: 100%
Feng Sampling	Comment: Using ICECAPS POSS data to log start/end precipitation times. Sample collection date(s): Site visited daily; samples collected every day this week.
Noone Snow Sampling	Comment: Sample collection date(s): Site visited daily, surface samples collected daily, drift and rime samples collected when appropriate.
Noone Tower Instruments	Comment:
Hamilton Polarsondes	Comment: Date launched:
Steffen Tower Instruments	Comment: Data on ftp server: 9/2/2013
Steffen Solar Instruments	Comment: Data on ftp server: 9/2/2013
Total Sky Imager	Comment: % of time operating: 100%
ICECAPS Radiosonde	Comment: Dates launched: Twice daily radiosonde launches; Dual launches with ozonesonde on Thurs evening.
ICECAPS MWR	Comment: % of time operating: 100
ICECAPS SODAR	Comment: % of time operating: 100
ICECAPS POSS	Comment:



	% of time operating: 100
ICECAPS MMCR	Comment: % of time operating: 100
ICECAPS CAPABL	Comment: Ongoing OS/software issues causing shutdowns. % of time operating: 90
ICECAPS MPL	Comment: Afterpulse calibration performed Sep 7. % of time operating: 100
ICECAPS Ceilometer	Comment: % of time operating: 100
ICECAPS PAERI	Comment: % of time operating: 100
ICECAPS IcePIC	Comment: Photos taken during precipitation events on Sept 4 th & 5 th . % of time operating:
ASIAA MWR	Comment: % of time operating: 100