

Summit Station Weekly Science Report

Reporting Period: Sept 9-Sept 15, 2013

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Comments: This week had many North winds days and temperatures continued to drop. We had a full day of high winds earlier in the week, causing issues again with our internet connectivity to the Green House, where our office, the BSI instruments, and the ICECAPS balloon tracking system resides. So, we spent a fair amount of time trying to troubleshoot the issues, resulting in a temporary fix for now. The Noone vault also had technical issues remotely accessing their equipment, and after several back and forth communications, we were able to get that resolved as well.

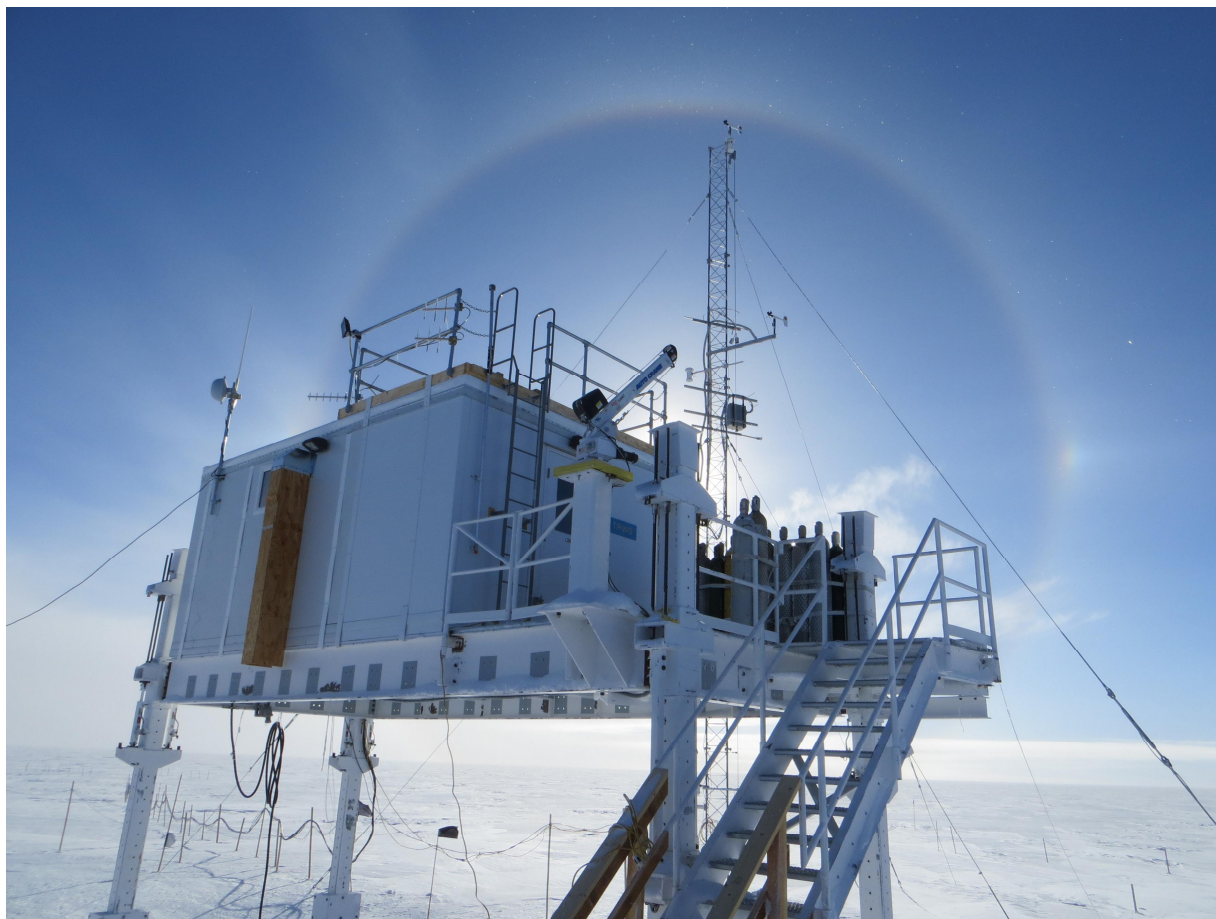
We dug out the Feng sampling tree, replaced portions of the mast, raised and re-set the guy wires. We also continue to diagnose issues for getting a second NOAA bird going, at the top of the TAWO tower, with help from the NOAA team back in the States. And otherwise, there is still a fair amount of station maintenance, including organizing equipment and materials to be winterized, moving snow and grooming to prevent significant drifting.

We've been seeing stars at night, and our first faint auroras, which is very exciting. As the darkness arrives, the laser beam of the Lidar becomes more and more visible. Here's the first photo of it this season:



photo: Brad Welchel

This photo shows TAWO, raised, and the wind birds installed on the tower (showing us in North winds, which seemed the norm this week.)



Please visit the clean air log at

<ftp://ftp.summitcamp.org/pub/data/GEOSummit/Clean%20Air%20Traffic/>

Facilities	Comment
TAWO	
MSF	
Green House	Internet outage at Green House on 9/10 and 9/11. (The GH network bridge went down again during high winds.) Wireless connection to Big House down from 9/10 13:20-16:00UTC & from ~18:30—indefinitely. As of 9/11 8:00UTC, installed connection to Big House via Cat5 network cable.
Experiment	Notes
NOAA CATS GC	Comment: % of time operating: 100%
NOAA CCGG flasks	Comment:

	Sample collection date(s): 9/9/2013
NOAA HATS flasks	Comment: Sample collection date(s): 9/9/2013
NOAA Surface Ozone	Comment: % of time operating: 100% Data on ftp server: 9/9/2013
NOAA Aethelometer	Comment: Was placed back online 9/10/2013 at 1220UTC. % of time operating: 85% Data on ftp server: n/a
NOAA Met Suite	Comment: 10M wind bird is online and running. We are continuing o diagnose issues for the new wind bird. % of time operating: 100%
NOAA Ozonesonde	Comment: Dual launch with ICECAPS radiosonde throughout the summer months. Date launched: 9/12/2013
NOAA Clidar	Comment: Not collecting data. % of time operating: 0%
NOAA CLAP/PSAP/Neph	Comment: Had a hung up computer, all was corrected after a reboot. Still no data flowing to outside of station. Waiting for Boulder office to repond, they are delayed due to floods there. % 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 of second sample due to North winds. Sample collection date(s): 9/9/2013 Data on ftp server: 9/9/2013
DRI Surface Samples	Comment: Sample collection date(s): 9/9/2013 Data on ftp server: 9/9/2013
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: 9/11/2013 Data on ftp server: 9/13/2013
ICESat accumulation	Comment: Observation date: 8/23/2013
BSI UVSIMN	Comment: Cycled power to unit as per PI's instruction, resolved

	issues. Took photos of new cord installation for BSI team, performed biweekly absolute scan. % of time operating: 100%
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: Dug out frame and raised it to surface; replaced portions of the mast; reset guy wires. Sample collection date(s): Site visited daily, samples collected when appropriate.
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: 9/9/2013
Steffen Solar Instruments	Comment: Data on ftp server: 9/9/2013
Total Sky Imager	Comment: % of time operating: 100
ICECAPS Radiosonde	Comment: 9/10 Evening sonde (OZ) not launched due to GH internet outage. Dates launched: Twice daily ; Thurs evening dual launch with ozonesonde.
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: Computer down a couple times this week due to Labview errors. % of time operating: 90
ICECAPS MPL	Comment: % of time operating: 100



ICECAPS Ceilometer	Comment: % of time operating: 100
ICECAPS PAERI	Comment: % of time operating: 100
ICECAPS IcePIC	Comment: No pics this week. % of time operating:
ASIAA MWR	Comment: 9/9 Computer clock not updating; re-synchronized clock & rebooted radiometer. % of time operating: 90