

Summit Station Weekly Science Report

Reporting Period: Sept 16-Sept 22, 2013

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Comments: This week again had many North winds days but 'higher' temperatures of closer to -18C and above at times. We have continued to diagnose and address the internet connectivity issues to the Green House. We discovered that we also unfortunately lost the GPS base station in the high wind event, likely due to GH grounding issues. There was a fair amount of discussion and decision making amongst PFS and SRI regarding resolution. UNAVCO will be sending a new base station with a better surge protector on the flight in late October. The Noone vault also continued to have technical issues remotely accessing their equipment, and they are working on a plan of where to go next.

There was also a station-wide internet outage for most of the day on 9/20 (~0:00-14:00UTC) which affected the nightly data transfer from MSF and the morning radiosonde balloon launch.

We did have some good weather this week and we were able to get in another ICESAT on a beautiful day. (Although we no longer have GPS base station data, the PIs may still be able to process the ICESAT survey using only the roving GPS data.)

The first photo is of Dave and Lana collecting data at a GPS waypoint with Shawntel holding the accumulation measurement pole. The next photo is of the polypod, with our survival gear and the GPS unit and antenna.

The last photo is of a lovely sunset and moonrise we had on Sept 16th (photo: David Benson).





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): 9/16/2013
NOAA HATS flasks	Comment: Sample collection date(s): 9/16/2013
NOAA Surface Ozone	Comment: % of time operating: 100% Data on ftp server: 9/16/2013
NOAA Aethelometer	Comment: % of time operating: 100% 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: 9/19/2013
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: Sample collection date(s): 9/16/2013, 9/20/2013 Data on ftp server: 9/16/2013, 9/20/2013
DRI Surface Samples	Comment: Sample collection date(s): 9/16/2013 Data on ftp server: 9/16/2013
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: 9/18/2013 Data on ftp server: 9/18/2013
ICESat accumulation	Comment: Observation date: 9/20/2013
BSI UVSIMN	Comment: % of time operating: 100%
Hanka Seismometer	Comment: % of time operating: 100%
UNAVCO	Comment: Base Station was fried during high wind event, due to inadequate grounding . A new Base Station and surge protector are being sent up at the end of October.
Helmig GC	Comment: % of time operating: 100%
Kramer NOx	Comment: % of time operating: 100%
Feng Sampling	Comment: Sample collection date(s): 9/19, 9/20, 9/22
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: 9/16/2013
Steffen Solar Instruments	Comment: Data on ftp server: 9/16/2013
Total Sky Imager	Comment: 9/17 TSI taken offline and removed from MSF roof for winter. % of time operating: 0
ICECAPS Radiosonde	Comment: Dates launched: Twice daily radiosonde launches (Thurs dual launch with ozonesonde) 9/17 Morning sonde (12Z) launched ~20min late due to bad battery (?) 9/20 Morning balloon (12Z) data not sent due to station-wide internet outage
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 work by PIs to fix software/OS issues % 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: Pics taken 9/19 during precip event % of time operating:
ASIAA MWR	Comment: % of time operating: 100