

## Meteorological Services

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- Sunrise occurred at 1137UTC on the 20<sup>th</sup>, but was obscured due to blowing snow and freezing fog. Sunrise is based on US Naval Observatory time.
- On September 21<sup>st</sup> between 2213-2340z, an LMC and NGH heater were idled on the immediate grid west side of the Clean Air tower platform. This was done in an attempt to warm the telescoping tower sections and lower the anemometer in order to install a new one. The anemometer was raised and lowered between 5 and 10 meters during this time but it was not retrieved.
- The Campbell-Stokes Sunshine Recorders were taken out of storage and placed on the roof of the B2 Science Lab on September 22<sup>nd</sup> for summer use.
- On September 25<sup>th</sup> at 2032z, an unplanned power outage caused the loss of one minute of data.
- On September 25<sup>th</sup> at 2123z, the aspirator fan on AT/RH#1 which contained greased bearings stopped running. At 1104z, the AT/RH#1 and AT/RH#2 signal cables were switched. The stopped fan reluctantly started spinning again when it was power cycled, although it sounded unhealthy and it continued to stop turning periodically. It will be replaced with a temperature sensor unit that has had the fan bearing grease removed.
- All routine data collection and reporting activities continued as normal.

### *Weather: September 2012*

Temperatures:	Date	
Average		-60.7°C / -77.3°F
Maximum	09/29/12	-43.9°C / -47.0°F
Minimum	09/07/12	-74.7°C / -102.5°F
Station Pressure in millibars:		
Average pressure		676.4 mb
Highest pressure	09/21/12	696.3 mb
Lowest pressure	09/05/12	666.1 mb
Physiological altitude in feet and meters:		
Average physio-altitude		10,765 ft/ 3,281 m
Highest physio-altitude	09/05/12	11,159 ft/ 3,401 m
Lowest physio-altitude	09/21/12	10,020 ft/ 3,054 m
Visibility:		1 day with ¼ mile or less
Wind:		
Average Wind Speed		12.1 mph or 10.5 knots
Maximum Gust	09/20/12	37 mph or 32 knots
Maximum Gust Direction		Grid North
Vectored Wind Direction		049 degrees

Vectored Wind Speed		8.4 knots
Prevailing Direction		Grid North

**\*\* Records\*\***

No records were tied or broken during the month.