

Meteorological Services

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- AT/RH#2 was removed from the CAIR tower at 1335 UTC. The aspirator fan had been smothered by blowing snow that accrued inside the fan housing and extended into the long, horizontal aspirator tube. Parts from remaining spare AT/RH aspirator fans were pieced together to build a functioning fan in another unit, which was deployed at 2125 UTC. AT/RH#2 was aligned such that blowing snow should not enter the fan housing. The current configuration of AT/RH#1 and AT/RH#2 on the CAIR tower needs to be redesigned so that blowing snow will not choke out the aspirator fans.
- All routine data collection and reporting activities continued as normal.

Weather: August 2012

Temperatures:	Date	
Average		-62.6°C / -80.7°F
Maximum	08/20/12	-51.9°C / -61.4°F
Minimum	08/05/12	-75.1°C / -103.2°F
Station Pressure in millibars:		
Average pressure		675.3 mb
Highest pressure	08/31/12	687.1 mb
Lowest pressure	08/12/12	662.6 mb
Physiological altitude in feet and meters:		
Average physio-altitude		10,808 ft/ 3,294 m
Highest physio-altitude	08/12/12	11,293 ft/ 3,442 m
Lowest physio-altitude	08/31/12	10,361 ft/ 3,158 m
Visibility:		2 days with ¼ mile or less
Wind:		
Average Wind Speed		10.3 mph or 8.9 knots
Maximum Gust	08/25/12	34 mph or 30 knots
Maximum Gust Direction		Grid Northeast
Vectored Wind Direction		069 degrees
Vectored Wind Speed		7.6 knots
Prevailing Direction		Grid East

**** Records****

August 5th: The temperature of -75.1°C/-103.2°F broke the previous minimum temperature record of -74.8°C/-102.6°F set in 2001.

August 14th: The temperature of -74.7°C/-102.5°F broke the previous minimum temperature record of -74.5°C/-102.1°F set in 1978.