

# ASC Meteorological Services

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## Meteorological Services

- On 03 July, -109.1°F was reached, so far our lowest temperature for the year.
- The SKWY wind sensor was recording calm winds for a period of approx. 12hrs, between the 6<sup>th</sup> and 7<sup>th</sup>. Used CLN AIR winds until SKWY started reporting again.
- The furnace in the BIF stopped working on the 8th due to temperatures freezing the fuel in the lines; both furnaces are now down, the BIF is being heated by an electric fan heater.
- Launched upper air soundings in support of MCM midwinter flight from 15th-17th.
- On the 21<sup>st</sup> a breaker was accidently tripped at the BIF which caused the GPS to lose power. The GPS did not have enough time to re-establish a satellite connection by balloon launch time, as such the balloon launch was cancelled.
- All routine data collection and reporting activities continued as normal.

## *Weather: July 2015*

Temperatures:	Date	
Average		-62.0°C / -79.6°F
Maximum	07/20/15	-40.8°C / -41.4°F
Minimum	07/03/15	-78.4°C / -109.1°F
Station Pressure in millibars:		
Average pressure		669.7 mb
Highest pressure	07/16/15	684.4 mb
Lowest pressure	07/08/15	652.5 mb
Physiological altitude in feet and meters:		
Average physio-altitude		11,019 ft/ 3,359 m
Highest physio-altitude	07/08/15	11,683 ft/ 3,561 m
Lowest physio-altitude	07/16/15	10,463 ft/ 3,189 m
Visibility:		3 days with ¼ mile or less
Wind:		
Average Wind Speed		13.5 mph or 11.7 knots
Maximum Gust	07/20/15	43 mph or 37 knots
Maximum Gust Direction		Grid Northeast
Vectored Wind Direction		055 degrees
Vectored Wind Speed		8.3 knots
Prevailing Direction		Grid North or 020 degrees

## **\*\* Records\*\***

July 2nd: The temperature of -76.1°C/-105.0°F on the 2nd broke the previous record of -74.8°C/-102.6°F set in 1988.

July 3rd: The temperature of -78.4°C/-109.1°F on the 3rd broke the previous record of -74.3°C/-101.7°F set in 2010.

July 5th: The temperature of -76.2°C/-105.2°F on the 5TH broke the previous record of -75.2°C/-103.4°F set in 1985.

July 6th: The temperature of -75.8°C/-104.4°F on the 6TH broke the previous record of -74.8°C/-102.6°F set in 2005.

July 7th: The temperature of -75.9°C/-104.6°F on the 7TH broke the previous record of -74.7°C/-102.5°F set in 1998.

July 8th: The temperature of -76.7°C/-106.1°F on the 8TH broke the previous record of -75.6°C/-104.1°F set in 1998.

July 9th: The temperature of -74.8°C/-102.6°F on the 9th broke the previous record of -74.4°C/-101.9°F set in 2004.

July 19th: The max wind speed of 32kts/37mph on the 19th tied the previous max wind speed record set in 1984.

July 20th: The max wind speed of 37kts/43mph on the 20th broke the previous max wind speed record of 36kts/41mph set in 2013.

July 25th: The max wind speed of 29kts/33mph on the 25th tied the previous max wind speed record set in 1984.

July 26th: The max wind speed of 30kts/34mph on the 26th broke the previous max wind speed record of 29kts/33mph set in 1991.

July 27th: The max wind speed of 36kts/42mph on the 27th broke the previous max wind speed record of 33kts/38mph set in 1961.