

Meteorological Services

Winterovers: Phil Marzette Phillip.Marzette.Contractor@usap.gov

Clint Perrone Clint.Perrone.Contractor@usap.gov

- Secondary balloon launches were performed from August 31st to September 7th in order to support weather forecasts for Winfly flights at McMurdo on the 1st, 6th and 8th.
- A network outage at ARO occurred at 1120–1953 UTC on the 13th (23:20– 7:53 on the 14th NZST). All meteorological data inclusive of those times from the Clean Air sector was lost.
- Sunrise occurred at South Pole on the 20th at 1730 UTC (21st at 05:30 NZST). The sun was obscured by clouds and mist.
- Two windsocks were placed back on the skiway on the 26th for upcoming flight operations.
- A small network outage at ARO occurred at 1950–2018 UTC on the 27th (7:50– 8:18 on the 28th NZST). All meteorological data inclusive of those times from the Clean Air sector was lost.
- All routine data collection and reporting activities continued as normal.

Weather: September 2013

Temperatures:	Date	
Average		-51.2°C / -60.2°F
Departure from Normal	+7.8°C / +14.0°F	Maximum 09/13/13 -27.7°C / -17.9°F
Minimum	09/03/13	-63.9°C / -83.0°F
Station Pressure in millibars:		
Average pressure		686.1 mb / 20.261 in. Hg
Departure from Normal		+10.2 mb / +0.301 in. Hg
Highest pressure	09/26/13	701.9 mb / 20.727 in. Hg
Lowest pressure	09/03/13	667.7 mb / 19.717 in. Hg
Physiological altitude in feet and meters:		
Average physio-altitude		10,399 ft / 3,170 m
Highest physio-altitude	09/03/13	11,096 ft / 3,382 m
Lowest physio-altitude	09/26/13	9,813 ft / 2,991 m
Visibility:		11 days with ¼ mile or less
Wind:		
Average Wind Speed		14.8 mph or 12.9 knots
Maximum Gust	09/28/13	40 mph or 35 knots
Maximum Gust Direction		Grid Northeast
Vectored Wind Direction		053 degrees
Vectored Wind Speed		10.9 knots
Prevailing Direction		Grid North or 020 degrees
** Records**		

Day 11: The temperature of -33.5°C/-28.3°F broke previous maximum temperature record of -34.7°C/-30.5°F set in 2001.

Day 12: The temperature of -33.4°C/-28.1°F broke previous maximum temperature record of -33.8°C/-28.8°F set in 2001.

Day 13: The temperature of -27.7°C/-17.9°F broke previous maximum temperature of -29.6°C/-21.3°F set in 1983.

Day 15: The temperature of -32.6°C/-26.7°F broke previous maximum temperature record of -41.1°C/-42.0°F set in 1964.

The average pressure of 686.1 mb/20.261 in. Hg broke previous maximum average pressure record for the month of September of 683.3 mb/20.178 in. Hg that was set in 1988.

The average maximum temperature of $-47.6^{\circ}\text{C}/-53.7^{\circ}\text{F}$ broke previous highest average maximum temperature for the month of September of $-48.5^{\circ}\text{C}/-55.3^{\circ}\text{F}$ set in 2005.

The average temperature of $-51.2^{\circ}\text{C}/-60.2^{\circ}\text{F}$ broke previous highest average temperature for the month of September of $-52.6^{\circ}\text{C}/-62.7^{\circ}\text{F}$ set in 2005.

The temperature of $-27.7^{\circ}\text{C}/-17.9^{\circ}\text{F}$ broke previous maximum temperature for the month of September of $-29.3^{\circ}\text{C}/-20.7^{\circ}\text{F}$ set on September 28-29, 1994.