

## ASC Meteorological Services

Winterovers: Jeffrey De Rosa (SPO-Met@usap.gov)  
 Mark Dellandre (SPO-Met@usap.gov)

### Weather

Quantity	Date	Value
<b>Temperature</b>		
Average		-58.5°C (-73.3°F)
Maximum	04 May	-46.3°C (-51.3°F)
Minimum	13 May	-68.3°C (-90.9°F)
<b>Wind</b>		
Average Wind Speed		10.2 mph (8.9 kts)
Prevailing Direction		Grid Southeast 070°
Maximum Wind Gust	18 May	33 mph (29 kts)
Maximum Wind Gust Direction		Grid North
Average Vectored Wind		045° at 7.1 kts
<b>Atmospheric Pressure</b>		
Average		682.3 mb
Highest	14 May	696.2 mb
Lowest	21 May	664.3 mb
<b>Physiological Altitude</b>		
Average		3213 m (10542 ft)
Highest	21 May	3422 m (11226 ft)
Lowest	14 May	3055 m (10023 ft)
<b>Sky Cover</b>		
Average Cover (8ths)		04
Clear Days		10
Partly Cloudy Days		12
Cloudy Days		09
<b>Visibility</b>		
		0 days with 1/4 mile or less

### Notes

- Snow stakes measured 0.869 inches
- 32 soundings for the month.
  - 02 soundings terminated above 50mb
  - 28 soundings terminated between 50mb and 100mb
  - 02 sounding terminated below 100mb
  - 00 soundings were missed
- A rewrite of the monthly summary checklist has been conducted. The Meteorology SOP has been updated to reflect these changes.

- The Systems Administrator has identified the issue with dual NOAA launches. It appears to have been a faulty cable. Dual launches continue without impediment.
- South Pole Meteorology coordinated with safety to update the departmental JHAs for routine tasks.
- The BIF door has been closing with difficulty. The problem resides in heat exchange through the bottom of the door. A temporary solution to this problem involves chipping hard ice from the bottom of the door; a fine temporary solution until a permanent fix can be made during the warmer summer months.
- With one exception, all SOP chapters have been completed/updated for the meteorology department. The one exception is our “forecasting” chapter. This chapter will be completed later in the winter when the internet aligns with our night shift.
- We have begun our “J-Drive organization” project. The project will allow our department to become more functional and efficient.
- A total lunar eclipse was witnessed by the station this month, in part due to ideal weather conditions.
- A Helium inventory (with the safety department volunteering time to help) was performed as part of this month’s quality control. We found that tank #6 had previously been left open and had backfilled into other tanks; specifically tank 3. An updated Helium status report is included above and the local Helium log has been updated. All users of the tanks have been contacted and asked to only open one tank at a time.
- Silverlight, the program that operates our AWA, is expected to be removed from all USAP systems by June 23rd. However, there is currently no solution to operating our weather page without Silverlight. As a result, our local IT department has requested an exception for the Met computer, AWA server, and the Cryo computer.
- A failure in Outlook necessitated the need for an observation through Iridium call to Mac WX. Outlook has been reinstalled and is once again operational.
- All other operations continued as normal.

## Records

- May 6: Lowest average wind of 5.1mph/4.4kts breaks previous record of 6.2mph/5.4kts set in 1985.