

ASC Meteorological Services

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Weather

Quantity	Date	Value
Temperature		
Average		-54.1°C (-65.4°F)
Maximum	Jul 21	-33.5°C (-28.3°F)
Minimum	Jul 13	-70.7°C (-95.3°F)
Atmospheric Pressure		
Average		682.2 mb
Highest	Jul 22	703.4 mb
Lowest	Jul 13	662.2 mb
Physiological Altitude		
Average		3,214 m (10,545 ft)
Highest	Jul 13	3,446 m (11,307 ft)
Lowest	Jul 22	2,974 m (9,758 ft)
Visibility		
		2 days with 1/4 mile or less
Wind		
Average Wind Speed		14.0 mph (12.2 kts)
Maximum Wind Gust	Jul 21	40 mph (35 kts)
Maximum Wind Gust Direction		Grid North
Average Vecteded Wind		033° at 10.2 kts
Prevailing Direction		Grid East 080°

Notes

- Clean air data has not been transmitting properly. The server has been rebooted but to no effect. IT checked for potential firewall interference. After weeks of using NOAA tower data the tower came back online after maintenance and another tower reboot.
- Converting the MET computer to Windows 11 has been complete this month.
- One of the sunshine recording globes has been repaired by Facilities. A connecting piece had fallen off and has since been mended.
- The pressure archives are still not archiving properly. Mesotech has been informed of this issue.
- The NOAA tower continues to be used for some data.
- A technical manual for the FMQ-23 is uploaded onto the Meteorology drive.
- A backup DCP server is being located for the tower.
- Weather forecasting remains crucial to station operations.

- Community outreach continues in the form of balloon launches with the other winterovers.
- All other meteorological operations continued as normal.

Records

- 07/21: Maximum temperature of $-33.5^{\circ}\text{C}/-28.3^{\circ}\text{F}$ breaks the previous record of $-34.3^{\circ}\text{C}/-29.7^{\circ}\text{F}$ set in 1982.
- 07/27: Maximum temperature of $-36.5^{\circ}\text{C}/-33.7^{\circ}\text{F}$ breaks the previous record of $-38.1^{\circ}\text{C}/-36.6^{\circ}\text{F}$ set in 1958.