

ASC Meteorological Services

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Weather

Quantity	Date	Value
Temperature		
Average		-31.3°C (-24.3°F)
Maximum	Jan 2	-23.5°C (-10.3°F)
Minimum	Jan 26	-38.3°C (-36.9°F)
Atmospheric Pressure		
Average		685.9 mb
Highest	Jan 30	698.1 mb
Lowest	Jan 12	679.1 mb
Physiological Altitude		
Average		3,172 m (10,406 ft)
Highest	Jan 12	3,250 m (10,662 ft)
Lowest	Jan 30	3,034 m (9,953 ft)
Visibility		
		0 days with 1/4 mile or less
Wind		
Average Wind Speed		8.1 mph (7.0 kts)
Maximum Wind Gust	Jan 1	23 mph (20 kts)
Maximum Wind Gust Direction		Grid North
Average Vecteded Wind		338° at 4.7 kts
Prevailing Direction		Grid Northeast 060°

Notes

- The annual climate summary for 2023 was completed. Sun cards have been shipped.
- The SOP for the annual summary has been rewritten.
- Community outreach has increased with near daily guests at our balloon launches
- Support for Coldex flights concluded on 1/12/24.
- The Skiway tower became inoperable on the AWA on 18 January 2024. Data was temporarily switched to Clean Air while the problem was addressed.
- Training of RAs continues. They are on track to be ready for winter operations
- All other meteorological operations continued as normal

- NPP replaced the barometer on the skiway tower.
- NPP installed a new temperature sensor to replace the one they broke in November. The newly installed temperature sensor reads 3-4°C too cold. They were unable to fix this and have told us they will not send another instrument before winter. As a result, we will not have a backup temperature sensor this winter.
- A resupply of weather balloons and radiosondes was received this month. The shipment of radiosondes is too small for full winter operations. We have enough material (330 radiosondes) for once per day launches. However, the required two a days when flights are on continent are not possible with our current inventory. A request was put in for McMurdo to send spare radiosondes.
- All other meteorological operations continued as normal

Records

- No records were tied or broken this month. However, this was the third coldest January of all time (1995 & 2023 are first and second coldest, respectively).