

ASC Meteorological Services

Winterover: Jeffrey De Rosa (SPO-Met@usap.gov)

Quantity	Date	Value
Temperature		
Average		-38.2°C (-36.8°F)
Maximum	25 Nov	-22.3°C (-8.1°F)
Minimum	3 Nov	-46.9°C (-52.4°F)
Wind		
Average Wind Speed		8.3 mph (7.2 kts)
Prevailing Direction		Grid North 020°
Maximum Wind Gust	1 Nov	28 mph (24 kts)
Maximum Wind Gust Direction		Grid Northeast
Average Vectored Wind		044° at 5.2 kts
Atmospheric Pressure		
Average		679.0 mb
Highest	22 Nov	685.8 mb
Lowest	25 Nov	669.5 mb
Physiological Altitude		
Average		3,251 m (10,666 ft)
Highest	25 Nov	3,361 m (11,027 ft)
Lowest	22 Nov	3,173 m (10,410 ft)
Visibility		
		0 days with 1/4 mile or less

Notes

- The incoming meteorologist arrived on 11/04. Turnover is complete.
- The new RAs arrived. Their meteorological training continued throughout the month. The department’s staffing schedule has been created and accepted.
- Dual launches with NOAA continue but reduced as the month progressed.
- The Skiway officially opened on the 15th.
- Turnover quality control is ongoing. The following errors of note have been identified and are in the process of correction:
 - Pressure Rising/Falling Rapidly has been incorrectly coded. The department mistakenly misinterpreted FMH #1 Glossary Appendix A7 “Inches of Mercury” change parameters as a change in millibars. Consequently, all PRESRR & PRESFR comments from the past year will be deleted from archived MF1M-10C forms. This project is ongoing.
 - On May 19, 2021, a large temperature error made its way through the department’s quality control procedures. This error will have significant impact on climatology for month of May. Correction of this mistake involves several time-consuming steps. The corrections will therefore begin after training of the new RAs is complete.

- The senior meteorologist will serve this season as one of the station's fire captains.
- Departmental community outreach will be a priority this season. The department will offer experiential opportunities for all who are interested. Additionally, we have started weekly weather emails to disseminate data and other pertinent weather information.
- The clean-air tower had a still-functioning pressure port unattached at the plastic (hanging by wires rather than attached plastic-plastic). The port was pushed back into the holding case. However, this is not a permanent fix.
- In addition to the pressure port, the tower needed de-icing due to snow accumulation. The Skiway tower did not need maintenance.
- Meteorology personnel have shoveled off winter snow-accumulation from all roof areas where grating is located.
- A new season's supply of sun cards (Purchase Order #50141; both equinoctial and summer) have been delivered to the Meteorology office.
- At midnight, 11/17, the SPS for upper air would not connect with the sounding system. Several restarts brought it back to life. However, the radiosonde was not launched until 00:40 local (terminated at 1235Z before full ascent but still achieved 87 mb).
- A shipment of 350G balloons was delivered to the Balloon Inflation Facility. The Meteorologist and an RA received the order and stacked all balloons in the inflation room.
- IT has installed a new monitor at the weather desk. The old monitor was taken by IT for E-waste.
- Decluttering of the meteorological office has begun. The aim is to make the space more functional to improve efficiency.
- All other operations continued as normal.

Records

- 11/12: Daily average wind speed of 4.5 mph (3.9 kts) breaks the daily average low wind speed of 4.8 mph (4.2 kts) set in 1964.
- 11/13: Daily minimum temperature of -46.4°C (-51.5°F) breaks the previous daily record low of -46.0°C (-50.8°F) set in 2006.
- 11/14: Daily minimum temperature of -46.3°C (-51.3°F) breaks the previous daily record of -45.8°C (-50.4°F) set in 2006.
- 11/15: Daily minimum temperature of -45.6°C (-50.1°F) breaks the previous daily record of -44.9°C (-48.8°F) set in 1985.
- 11/25: Daily maximum temperature of -22.3°C (-8.1°F) breaks the previous daily record of -23.0°C (-9.4°F) set in 1980.