

From: [REDACTED]
To: [REDACTED]
Subject: WPR16FA160 wx
Date: Tuesday, August 16, 2016 1:43:09 PM

Hello Ms. Diaz...

I reviewed weather data for the area immediately east of Lake Tahoe (vicinity MEV) during the time period 1200-1600 PDT on 7 August 2016.

Weather radar from near Reno, Nevada, did not depict any pertinent reflectivity in the area. Visible satellite data from GOES-15 also did not identify any clouds in the area.

A NAM model sounding was generated for the area for 1400 PDT, and data was retrieved from a weather balloon launch from Reno at 1600 PDT (nominally 1700 PDT). Both soundings depicted a dry atmosphere, with temperature decreasing steadily with height below 15000'. No temperature inversions in this layer. The NAM sounding presented light (5-10 knots) westerly winds in this layer, while the balloon showed wind to be light and variable.

Surface wind was retrieved from MEV and is presented below. Density altitude was near 7300' at MEV. In general, the wind was light from the northwest, however there were some periods where it did gust to 15+ knots. You will note at 2215Z a slight reduction in visibility (perhaps from wind-driven aerosols) and twenty minutes later the observation of a variable wind of 60 degrees with gusts to 15 knots.

METAR KMEV 071855Z AUTO 26003KT 10SM CLR 25/M05 A3003 RMK AO2=
METAR KMEV 071915Z AUTO 09003KT 10SM CLR 25/M05 A3003 RMK AO2=
METAR KMEV 071935Z AUTO 29004KT 10SM CLR 25/M04 A3002 RMK AO2=
METAR KMEV 071955Z AUTO 32006G14KT 10SM CLR 26/M04 A3002 RMK AO2=
METAR KMEV 072015Z AUTO 30005KT 10SM CLR 26/M04 A3001 RMKAO2=
METAR KMEV 072035Z AUTO 28004KT 10SM CLR 27/M04 A3001 RMK AO2=
METAR KMEV 072055Z AUTO 34006KT 10SM CLR 28/M04 A3000 RMK AO2=
METAR KMEV 072115Z AUTO 32005KT 10SM CLR 28/M05 A3000 RMK AO2=
METAR KMEV 072135Z AUTO 31006KT 10SM CLR 28/M04 A2999 RMK AO2=
METAR KMEV 072155Z AUTO 30009G14KT 10SM CLR 29/M04 A2998 RMK AO2=
METAR KMEV 072215Z AUTO 32008G17KT 9SM CLR 30/M03 A2998 RMK AO2=
METAR KMEV 072235Z AUTO 30011G15KT 290V350 10SM CLR 30/M03 A2997 RMK AO2=
METAR KMEV 072255Z AUTO 30010KT 10SM CLR 29/M03 A2997 RMK AO2=
METAR KMEV 072315Z AUTO 30011G18KT 10SM CLR 29/M03 A2997 RMK AO2=

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