

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



WPR24FA185

METEOROLOGY

Meteorological Conditions

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Submitted by:

Mike Richards
Senior Meteorologist

- Longline automated observations from Pinal Airpark (MZJ) for the accident day for times surrounding the accident time are presented below. MZJ was at an elevation of about 1,900 feet. At 0715 MST, the MZJ AWOS reported a wind from 130° at 4 knots with gusts to 12 knots, visibility of 10 statute miles or greater, sky clear, temperature of 27°C and dew point temperature of 1°C, altimeter setting of 29.90 inHg; Remarks: station with a precipitation discriminator.

KMZJ 081335Z AUTO 13006KT 10SM CLR 26/01 A2989 RMK AO2

KMZJ 081355Z AUTO 14005KT 10SM CLR 26/01 A2990 RMK AO2

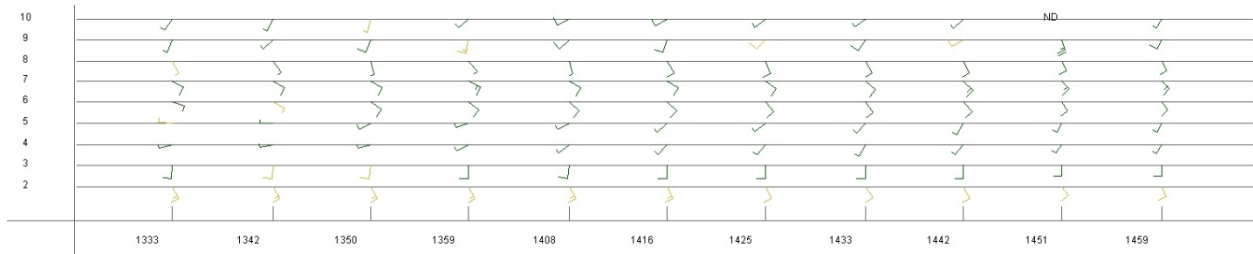
KMZJ 081415Z AUTO 13004G12KT 10SM CLR 27/01 A2990 RMK AO2

KMZJ 081435Z AUTO 13007KT 10SM CLR 29/M00 A2991 RMK AO2

- Interpolated High Resolution Rapid Refresh (HRRR) model wind data for the lowest 5,000 feet amsl near the accident location, valid for 0700 MST on the accident day, is listed below.

<u>Height (ft amsl)</u>	<u>Wind Dir (true)</u>	<u>Wind Mag (kts)</u>	<u>Temp (F)</u>
1900	145°	5	26.2°
2000	149°	7	25.7°
2250	159°	11	26.8°
2500	161°	12	27.9°
2750	166°	12	28.2°
3000	181°	11	28.2°
3250	204°	9	27.9°
3500	220°	8	27.5°
3750	223°	9	26.8°
4000	226°	10	26.2°
4250	223°	9	25.7°
4500	220°	8	25.3°
4750	216°	7	24.9°
5000	213°	7	24.5°

- A Velocity Azimuth Display (VAD) profile of the wind above the KIWA WSR-88D weather radar is presented below. The KIWA WSR-88D was located about 40 miles to the north-northwest of the accident site at an elevation of about 1,400 feet. In the profile below, time is presented along the horizontal axis in Zulu time (MDT + 7 hours) and the vertical axis is 1,000s of feet above the radar elevation.



- 00-hour forecast wind barbs for the accident region valid for 0700 MST on the accident day were retrieved from the Aviation Weather Center and are presented here. The following image depicts wind barbs at 3,000 feet agl. The accident site is located within the purple circle.

