

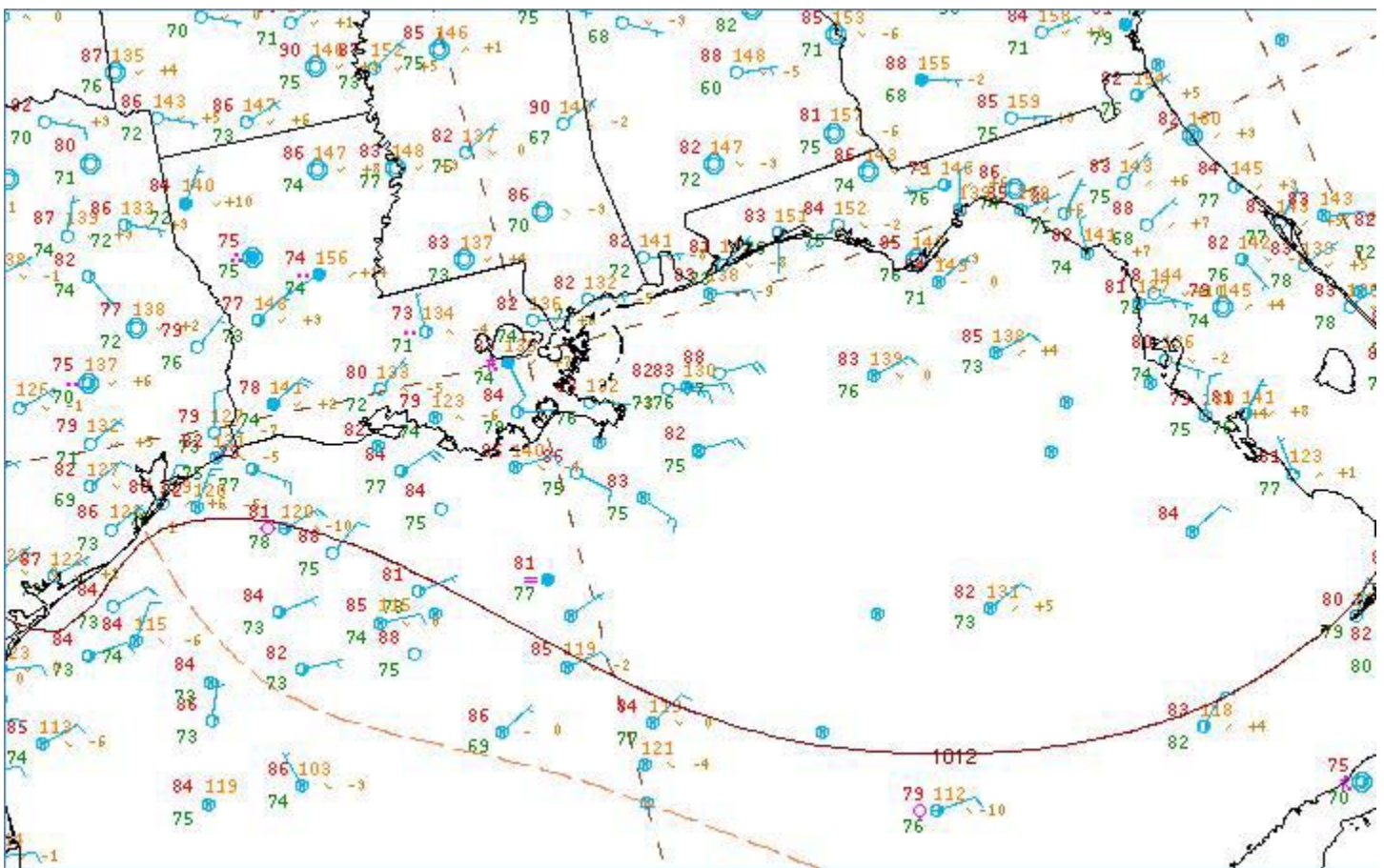
Hatch Craig

From: Eick Donald
Sent: Tuesday, August 30, 2016 1:24 PM
To: Hatch Craig
Subject: RE: CEN16LA338 - New Orleans
Attachments: KLIX WSR-88D 0115Z base reflectivity.png

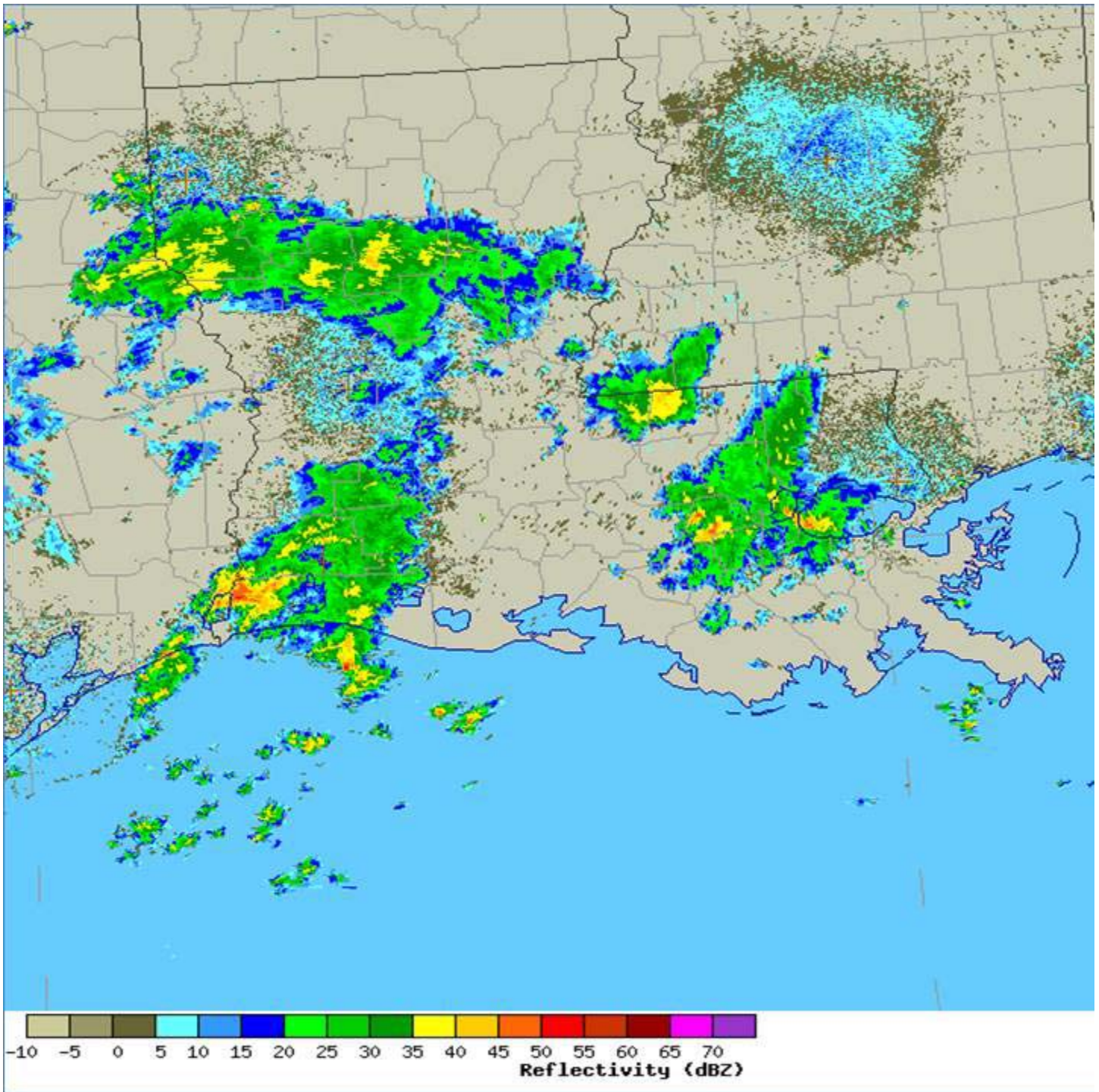
Radar image at 2015 CDT showing reflectivity's of 40 dBZ immediately north of airport associated with rain shower and lowering clouds.

From: Eick Donald
Sent: Tuesday, August 30, 2016 2:12 PM
To: Hatch Craig
Subject: CEN16LA338 - New Orleans

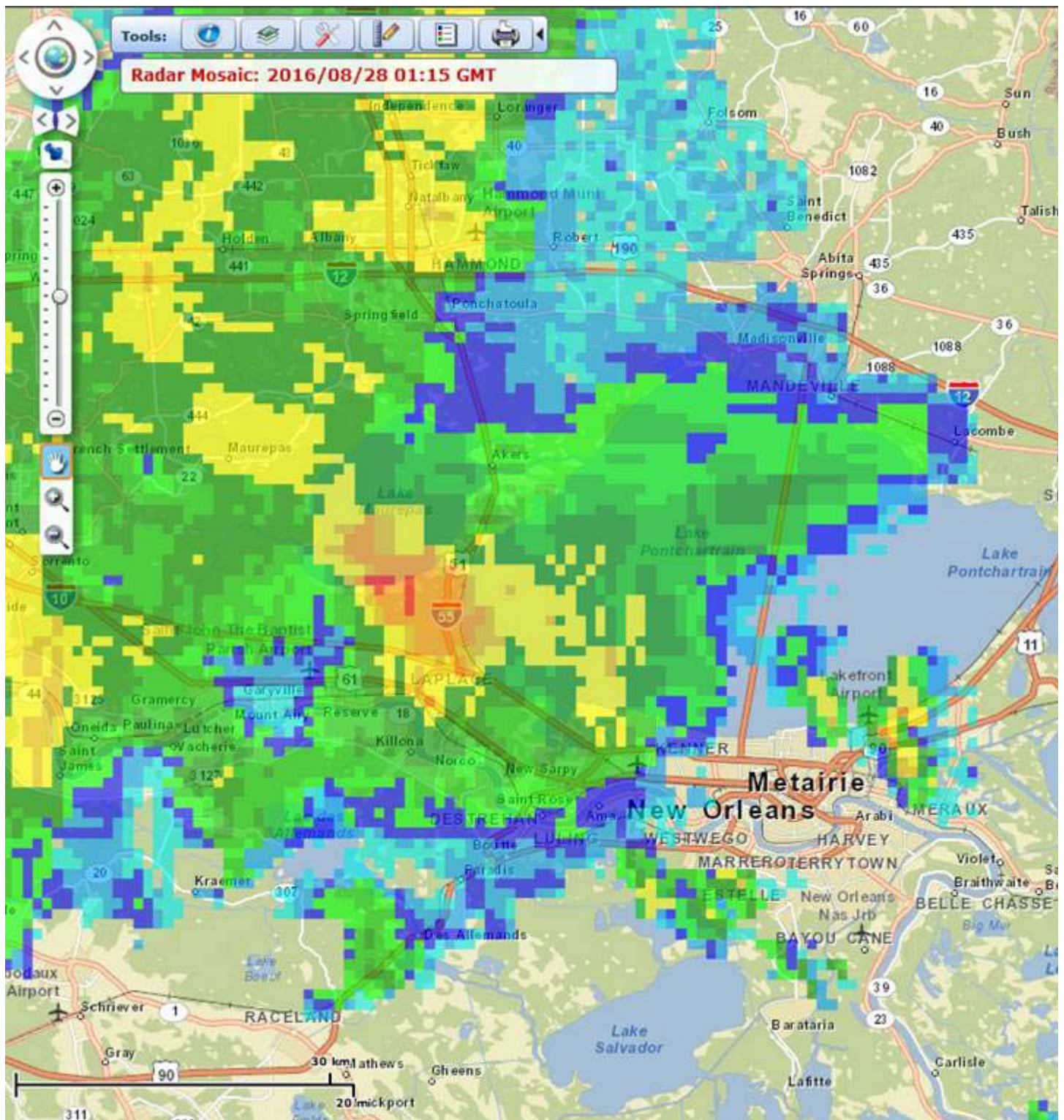
Synoptic conditions – A review of the NWS Surface Analysis chart for 1900 CDT (0000Z on August 28, 2016) depicted no frontal boundaries over the region. A tropical depression was located in the Florida Straits with a warm moist maritime tropical airmass prevailing over the area. The station model over New Orleans depicted easterly winds of 10 knots, thunderstorms and rain showers, overcast clouds, with a temperature of 83° Fahrenheit (F), and a dew point temperature of 74° F. Several other station models over Louisiana depicted light to moderate rain occurring at the time.



A regional radar mosaic at 2000 CDT (0100Z) is included below and depicted an area of convective echoes over the Lake Pontchartrain and over western New Orleans with several other areas of echoes over western and central Louisiana.



The NWS National composite radar mosaic for 2015 CDT is attached below and depicted an area of echoes over the airport and immediately north over Lake Pontchartrain.



Observations – Lakefront Airport (KNEW), New Orleans, LA listed an elevation of 7 feet, and a magnetic variation of 2° E. The airport had an Automated Surface Observation System (ASOS) and reported the following conditions immediately after the accident:

Lakefront Airport special weather observation at 2023 CDT, wind from 150° at 8 knots, visibility 10 miles, ceiling broken at 2,000 feet agl, broken at 3,600 feet, overcast at 6,500 feet, temperature 28° Celsius (C), dew point temperature 24° C, altimeter 29.97 inches of mercury (Hg). Remarks; automated observation system, lightning distant west through

northwest, rain ended at 2005 CDT, hourly precipitation less than 0.01 inches or a trace, temperature 27.8° C, dew point 24.4° C.

The observations surrounding the period indicated thunderstorms and rain showers over the area.

SPECI KNEW 271629Z 12004KT 1 3/4SM +RA BR FEW016 BKN048 OVC065 27/25 A3001 RMK AO2 RAB21 TSE00 P0005 T02720250=
SPECI KNEW 271640Z 08005KT 10SM -RA FEW017 SCT046 OVC070 28/25 A3000 RMK AO2 RAB21 TSE00 P0006 T02780250=
METAR KNEW 271653Z 07005KT 10SM FEW043 BKN070 BKN090 29/26 A3000 RMK AO2 RAB21E41 TSE00 SLP152 P0006
T02890256=
METAR KNEW 271753Z 06008KT 10SM FEW070 SCT085 31/24 A2999 RMK AO2 LTG DSNT SE AND S SLP147 60006 T03060244 10306
20272 58005=
SPECI KNEW 271820Z 04010KT 10SM VCTS SCT080 31/24 A2997 RMK AO2 LTG DSNT SE-SW T03060244=
SPECI KNEW 271842Z 11010KT 10SM FEW029 SCT080 29/23 A2997 RMK AO2 WSHFT 1828 LTG DSNT S AND SW RAB22E32 P0000
T02940233=
METAR KNEW 271853Z 10010KT 10SM FEW029 FEW120 29/24 A2997 RMK AO2 WSHFT 1828 LTG DSNT S AND SW
RAB22E32 SLP141 P0000 T02940239=
METAR KNEW 271953Z 10009KT 10SM CLR 31/24 A2994 RMK AO2 RAB08E20 SLP133 P0000 T03110239=
METAR KNEW 272053Z 09012KT 10SM CLR 32/23 A2992 RMK AO2 SLP124 60000 T03220228 58023=
METAR KNEW 272153Z 11015KT 10SM FEW032 31/23 A2991 RMK AO2 LTG DSNT N SLP121 T03060233=
METAR KNEW 272253Z 11018G23KT 10SM SCT026 SCT030 30/24 A2991 RMK AO2 LTG DSNT SW-N SLP121 T03000244=
METAR KNEW 272353Z 08011KT 10SM SCT021 BKN027 29/24 A2993 RMK AO2 LTG DSNT S-NW SLP127 60000 T02940244 10322
20289 53003=
SPECI KNEW 280040Z 10007KT 10SM VCTS BKN022 BKN030 29/25 A2996 RMK AO2 LTG DSNT W AND NW T02890250=
METAR KNEW 280053Z 11006KT 6SM VCTS -RA BKN024 BKN041 OVC080 29/26 A2997 RMK AO2 LTG DSNT W AND NW RAB48
SLP140 P0001 T02890256=
SPECI KNEW 280100Z 12005KT 6SM -RA SCT022 BKN038 OVC075 28/25 A2996 RMK AO2 LTG DSNT W AND NW P0000 T02830250=
Accident 0115Z
SPECI KNEW 280123Z 15008KT 10SM BKN020 BKN036 OVC065 28/24 A2997 RMK AO2 LTG DSNT W AND NW RAE05 P0000
T02780244=
SPECI KNEW 280141Z AUTO 13006KT 10SM SCT021 BKN070 28/24 A2998 RMK AO2 RAE05 P0000 T02830244=
METAR KNEW 280153Z AUTO 12007KT 10SM FEW023 BKN070 28/24 A2998 RMK AO2 RAE05 SLP146 P0000 T02830244=

New Orleans International Airport (KMSY) was located approximately 12 miles west of KNEW, at an elevation of 4 feet. The airport also had an ASOS and reported the following conditions:

New Orleans International Airport (KMSY) weather observation at 1953 CDT, wind calm, visibility 8 miles in thunderstorm and light rain, a few clouds at 3,300 feet agl in cumulonimbus clouds, scattered clouds at 7,500 feet, scattered clouds at 15,000 feet, ceiling broken at 25,000 feet, temperature 27° C, dew point 24° C, altimeter 29.96 inches of Hg. Remarks: automated observation system, rain ended at 1917 and began again at 1929 CDT, thunderstorm ended at 1921 and began again at 1941 CDT, sea level pressure 1014.8-hPa, frequent lightning in-cloud and cloud-to-cloud north, occasional lightning in-cloud and cloud-to-cloud distant west through northwest, thunderstorm north moving west, cumulonimbus cloud distant west through northwest, hourly precipitation 0.02 inches, temperature 27.2° C, dew point 24.4° C.

SPECI KMSY 280022Z 00000KT 10SM FEW033 SCT100 SCT170 BKN250 27/24 A2995 RMK AO2 RAE17 TSE21 OCNL LTGICCC DSNT W
FRQ LTGICCC DSNT NW
CB DSNT SW-NW P0001 T02720244=
SPECI KMSY 280049Z 00000KT 8SM -TSRA FEW033CB SCT075 SCT150 BKN250 27/24 A2996 RMK AO2 RAE17B29 TSE21B41 FRQ
LTGICCC N OCNL LTGICCC DSNT W-NW
TS N MOV W CB DSNT W-NW P0002=
METAR KMSY 280053Z 00000KT 8SM -TSRA FEW033CB SCT075 SCT150 BKN250 27/24 A2996 RMK AO2 RAE17B29 TSE21B41 SLP148
FRQ LTGICCC N OCNL LTGICCC
DSNT W-NW TS N MOV W CB DSNT W-NW P0002 T02720244=
Accident 0115Z
SPECI KMSY 280125Z 31003KT 10SM FEW025CB FEW110 BKN150 BKN250 27/25 A2997 RMK AO2 RAE09 TSE25 FRQ LTGIC DSNT NW
CB S MOV W CB DSNT NW

P0000 T02720250=
METAR KMSY 280153Z 06004KT 10SM FEW025 BKN170 28/25 A2997 RMK AO2 RAE09 TSE25 SLP152 P0000 T02780250=
SPECI KMSY 280242Z 13005KT 10SM FEW023 SCT160 BKN250 28/24 A2999 RMK AO2 CB DSNT SE T02830244=

Forecast – The Terminal Aerodrome Forecast issued during the period were as follows:

TAF KNEW 271741Z 2718/2818 07005KT P6SM VCSH FEW045 BKN070 BKN090
FM271915 07007KT P6SM VCTS FEW025CB BKN045 BKN150
TEMPO 2720/2724 2SM TSRA BKN022CB
FM280100 08010KT P6SM FEW030 BKN050
FM280400 11009KT P6SM BKN150
FM281500 09014KT P6SM FEW018 BKN100=

TAF KNEW 272326Z 2800/2824 11018KT P6SM SCT026 BKN250
FM281100 08010KT P6SM VCTS BKN030CB=

Astronomical Conditions – The United States Naval Observatory provided the following astronomical conditions for August 27, 2016.

Beginning civil twilight: 0610 CDT	Sunrise: 0635 CDT
Sunset: 1928 CDT	End of civil twilight: 1952 CDT
Moonrise: 0202 CDT	Moonset: 1601 CDT

At the time of the accident both the sun and the moon were more than 15° below the horizon.

Donald E. Eick
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National Transportation Safety Board
Office of Aviation Safety
Operational Factors Division (AS-30)
490 L'Enfant Plaza East, SW
Washington, D.C. 20594-2000
Office: 205-391-1234 Monday-Thursday
Mobile: 202-391-1234



6:53 PM 84.9 °F 94.1 °F 75.9 °F 74% 29.91 in 10.0 mi East 12.7 mph - N/A Mostly Cloudy

METAR KNEW 272353Z 08011KT 10SM SCT021 BKN027 29/24 A2993 RMK AO2 LTG DSNT S-NW SLP127 60000 T02940244 10322 20289 53003

7:40 PM 84.0 °F 93.7 °F 77.0 °F 79% 29.96 in 10.0 mi East 8.1 mph - N/A Thunderstorm Mostly Cloudy

SPECI KNEW 280040Z 10007KT 10SM VCTS BKN022 BKN030 29/25 A2996 RMK AO2 LTG DSNT W AND NW T02890250

7:53 PM 84.0 °F 94.8 °F 78.1 °F 82% 29.95 in 6.0 mi ESE 6.9 mph - 0.01 in Rain , Thunderstorm Light Rain

METAR KNEW 280053Z 11006KT 6SM VCTS -RA BKN024 BKN041 OVC080 29/26 A2997 RMK AO2 LTG DSNT W AND NW RAB48 SLP140 P0001 T02890256

8:00 PM 82.9 °F 91.8 °F 77.0 °F 82% 29.96 in 6.0 mi ESE 5.8 mph - 0.00 in Rain Light Rain

SPECI KNEW 280100Z 12005KT 6SM -RA SCT022 BKN038 OVC075 28/25 A2996 RMK AO2 LTG DSNT W AND NW P0000 T02830250

8:23 PM 82.0 °F 89.4 °F 75.9 °F 82% 29.97 in 10.0 mi SSE 9.2 mph - 0.00 in Overcast

SPECI KNEW 280123Z 15008KT 10SM BKN020 BKN036 OVC065 28/24 A2997 RMK AO2 LTG DSNT W AND NW RAE05 P0000 T02780244

8:41 PM 82.9 °F 90.8 °F 75.9 °F 79% 29.98 in 10.0 mi SE 6.9 mph - 0.00 in Mostly Cloudy

SPECI KNEW 280141Z AUTO 13006KT 10SM SCT021 BKN070 28/24 A2998 RMK AO2 RAE05 P0000 T02830244

8:53 PM 82.9 °F 90.8 °F 75.9 °F 79% 29.96 in 10.0 mi ESE 8.1 mph - 0.00 in Mostly Cloudy

METAR KNEW 280153Z AUTO 12007KT 10SM FEW023 BKN070 28/24 A2998 RMK AO2 RAE05 SLP146 P0000 T02830244