

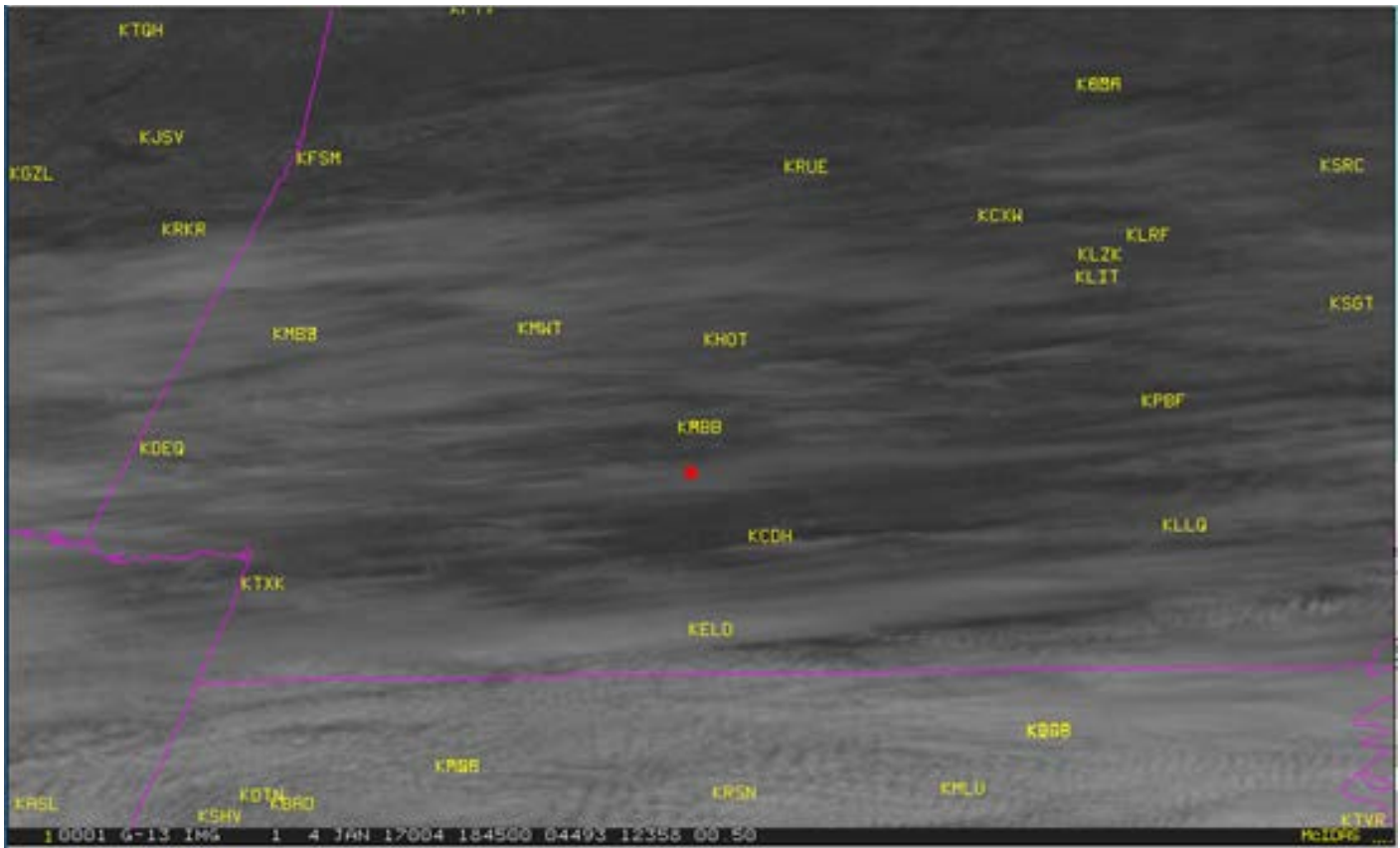


The National Transportation Safety Board

Office of Aviation Safety
Central Region
Memorandum for the Record
Weather Study
CEN17FA071
Gurdon, Arkansas
January 5, 2017

NTSB Senior Meteorologist, Don Eick, provided the following weather study:

A weather review of the area indicated a layer of broken to overcast clouds over Texas into Arkansas. A review of the soundings and local observation indicated favorable conditions for clouds broken-to-overcast between 2,000 and 6,000 ft. A GOES-13 visible satellite image with the accident site plotted is attached. The accident airplane was likely in VMC during the emergency descent, and then entered IMC immediately prior to impacting the terrain.



A review of the NWS inflight weather advisories indicated no advisories were current for turbulence, icing, of IFR conditions below 24,000 ft.

The closest weather observation for Dexter B. Florence Memorial Airport (KADF), Arkadelphia, Arkansas indicated the following:

KADF weather observation at 1256 CST (1856Z), wind from 360° true at 7 knots, visibility 10 miles or more, ceiling broken at 2,400 ft agl, overcast at 3,700 ft, temperature 3° Celsius (C), dew point -2° C, altimeter 30.01 inches of mercury. Remarks: automated observation system with a precipitation discriminator, sea level pressure 1016-8 hectopascals, temperature 3.3° C, dew point -1.7° C.

The Area Forecast was as follows:

.
FAUS44 KPCI041045

FA4W

DFWC FA041045

SYNOPSIS AND VFR CLDS/WX

SYNOPSIS VALID UNTIL 050500

CLDS/WX VALID UNTIL 042300...OTLK VALID 042300-050500

OK TX AR TN LA MS AL

SEE AIRMET SIERRA FOR IFR CONDS AND MTN OBSCN.

TS IMPLY SEV OR GTR TURB SEV ICE LLWS AND IFR CONDS.

NON MSL HGTS DENOTED BY AGL OR CIG.

.
SYNOPSIS...11Z STNR FNT EXT DG N-S OVR FAR WRN TX. RDG OF HIGH
PRES BUILDING SWD AND SEWD FM THE PLAINS EWD. 05Z LOW INVOF TCC
WITH WRMFNT ALGA TCC-20SWAMA-80SE MRF LN.

.
OK

WRN-CNTRL...SCT090-100 SCT-BKN150 TOPS 170 BKN CI. 19Z BKN CI.

OTLK...VFR.

ERN...BKN CI. OTLK...VFR.

.
NWRN TX

PNHDL...BKN170 TOPS FL200 BKN CI. 18Z BKN CI. WND S G25-30KT.

OTLK...VFR WND.

RMNDR...BKN-SCT150 TOPS FL280. 19Z SCT150 SCT CI. OTLK...VFR.

.
SWRN TX

MTNS WWD...SCT060 BKN100 LYRD FL250. 17Z SCT120 SCT CI.

OTLK...VFR.

RMNDR...SCT120 SCT-BKN CI. TIL 15Z OCNL SCT050. OTLK...VFR.

.
N CNTRL TX

SCT040 SCT-BKN150 TOPS FL200 BKN CI. OTLK...VFR.

.
NERN TX

OVC020-025 TOPS 040. BECMG 1619 SCT030 BKN150 TOPS FL220.

OTLK...VFR THRUT EXC TIL 01Z MVFR CIG SRN SXNS.

.
SERN TX

BKN015-025 TOPS 035. BECMG 1619 SCT020 BKN050 LYRD FL200.

OTLK...VFR.

.
S CNTRL TX

EXTRM SRN...OVC010 TOPS 030. TIL 14Z VIS 3SM BR. BECMG 1921

OVC025 TOPS 040. OTLK...MVFR CIG BR.

RMNDR...SCT-BKN CI. 21Z SCT-BKN130 TOPS 150 BKN CI. OTLK...VFR.

.

AR
N HLF...SCT150 BKN-SCT CI. OTLK...VFR.
SRN QTR...BKN030 TOPS 060. BECMG 1417 SCT-BKN150 TOPS FL200 BKN
CI. OTLK...VFR.
RMNDR S HLF...BKN-SCT050 TOPS 060 BKN CI. 15Z BKN-SCT CI.
OTLK...VFR.

Alexander Lemishko



Senior Air Safety Investigator
NTSB
Central Region Aviation