

**National Transportation
Safety Board**

**Aircraft Accident Investigation
Sunjet Aviation, Inc.
Aberdeen, South Dakota**



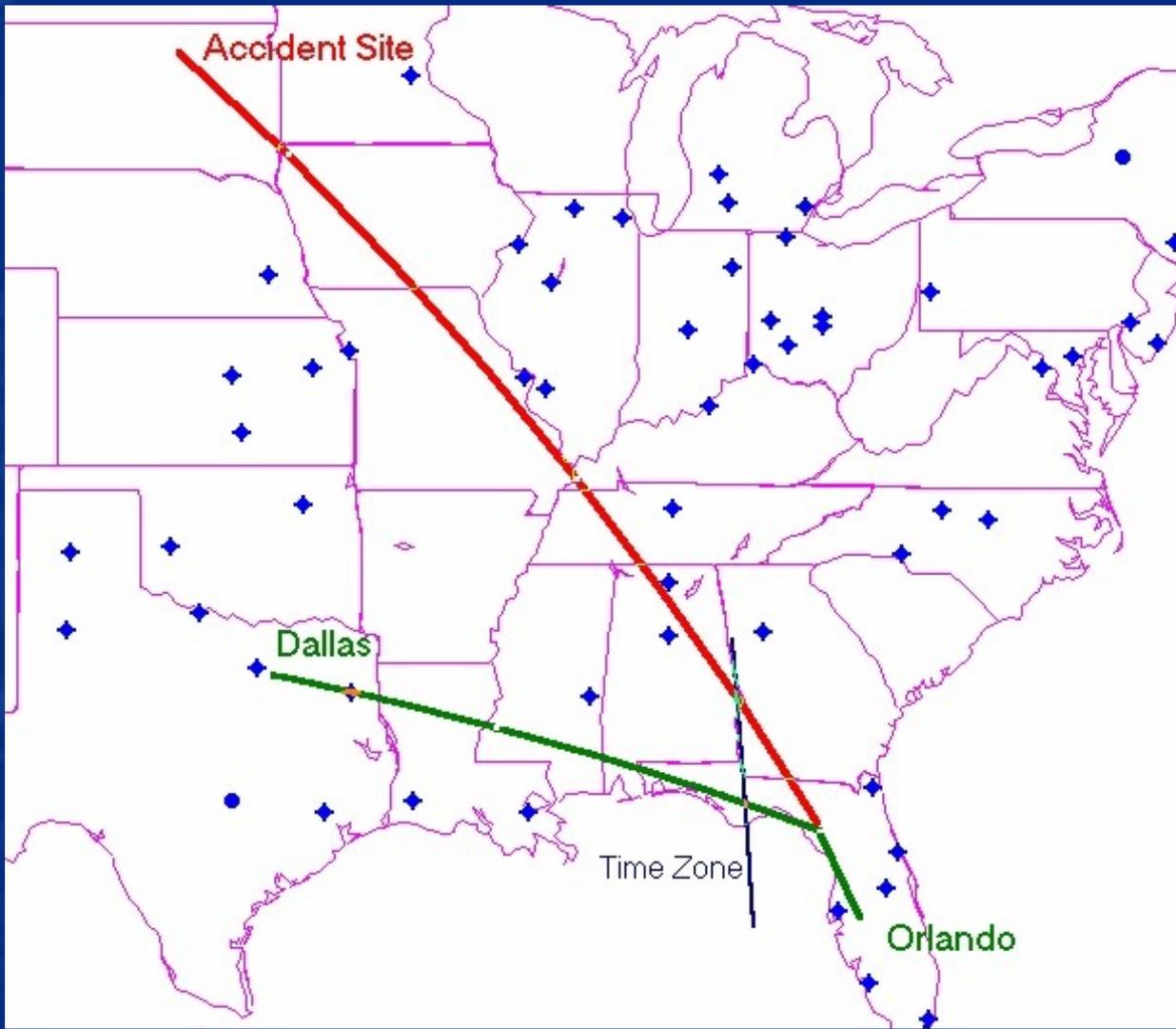


Sunjet Aviation, Inc.
N47BA

Accident Details

- **Aircraft: Learjet 35/N47BA**
- **Location: Near Aberdeen, SD**
- **Date: October 25, 1999**
- **Time: About 1213 CDT**
- **Operator: Sunjet Aviation, Inc.**
- **FAR Part 135/Inst. Flight Rules**
- **Weather - VFR**





Sequence of Events

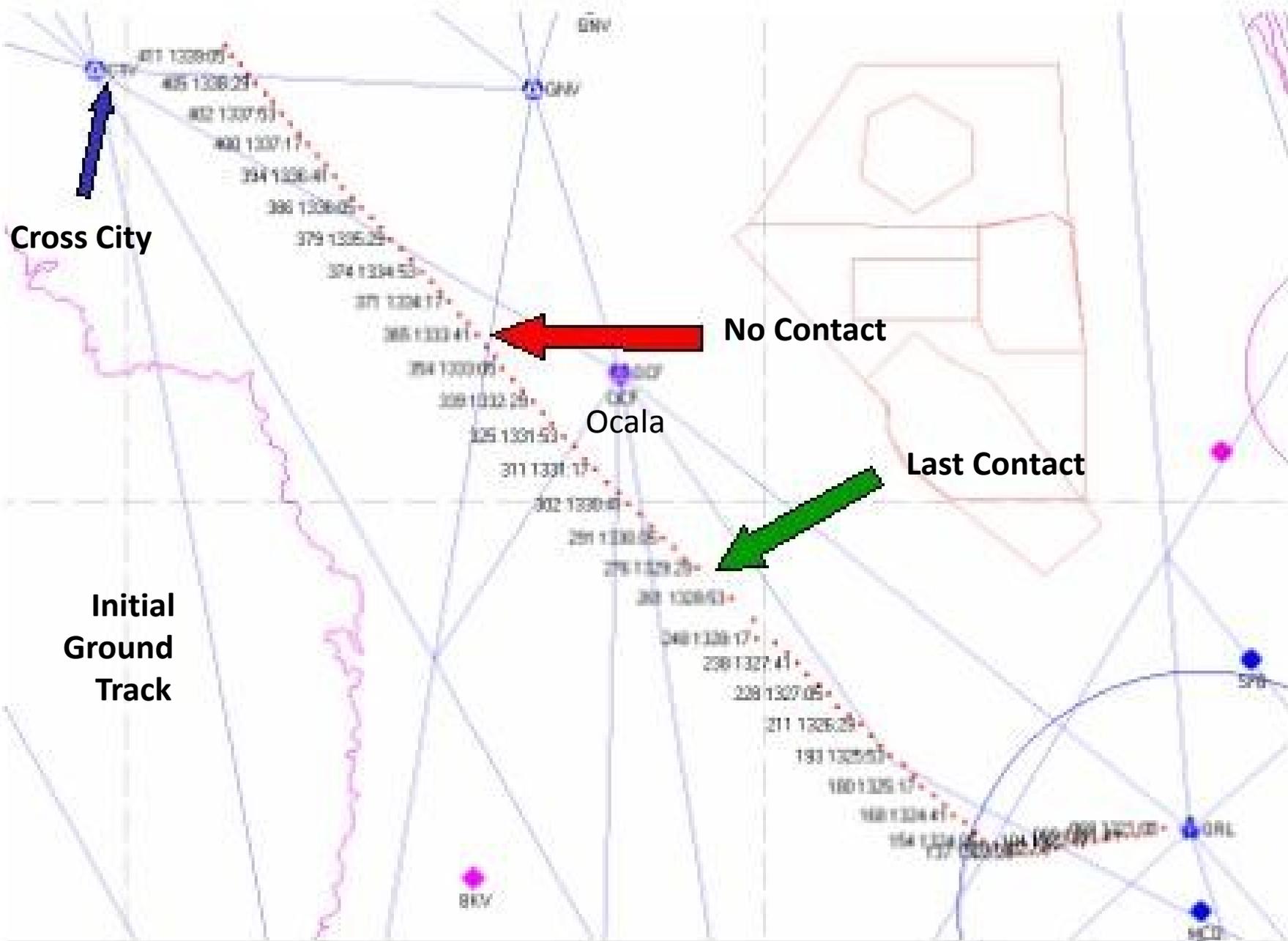
- **0754: Depart Sanford Airport**
- **0810: Arrive Orlando International Airport**
- **0919: Depart Orlando International Airport**
- **0926: Frequency change**
- **0927: Flight states climbing through 23,000 feet**



Sequence of Events (cont.)

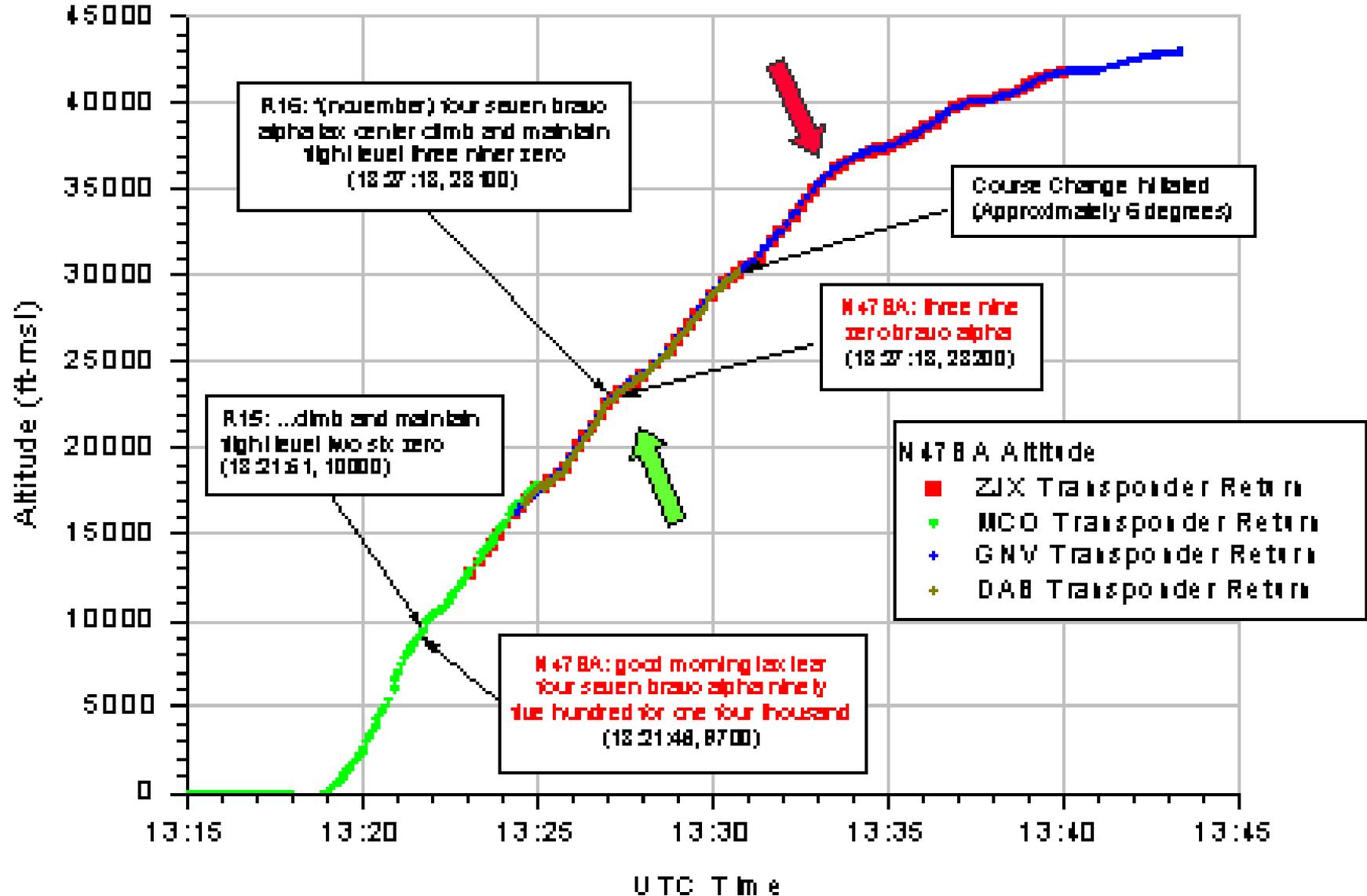
- **0927: Clearance received from controller to 39,000 feet**
- **0927: Last full transmission from aircraft at 23,000 feet**
- **0933: Controller attempts contact at 36,500 feet**





N47BA Initial Climb (13:15:02 - 13:43:20)

Radar Sites: Jacksonville ARTCC, MCO Approach, GNV Approach, DAB Approach



Sequence of Events (cont.)

- **1010 EDT/0910CDT: Aircraft crosses EDT/CDT line**
- **0952: First intercept by Eglin F-16**
- **1113: Second intercept by Tulsa F-16s**



Sequence of Events (cont.)

- **1150: Third intercept by Minot F-16s**
- **1210: One engine quits, aircraft descends**
- **1213: Approximate aircraft impact time**



The Accident Scene



Impact Crater



Wing

Wing

Wingtip Tank





**Main Impact
Crater**

CABIN AIR
FLOW CONTROL
VALVE

**Fragmented
Flow Control
Valve**



NTSB Investigators (South Dakota)

- Kevin Pudwill - Airworthiness
- David Bowling - Airworthiness



NTSB Investigators (Florida)

- **Captain Ken Egge – Operations**
- **Al Yurman - Maintenance Records**
- **Dr. Evan Byrne - Human Performance**
- **Dr. Bart Elias - Human Performance**



NTSB Investigators and Support Personnel (Washington, DC)

- **Dr. Mitch Garber - Physiology of Hypoxia**
- **Dr. Dan Bower - Aircraft Performance**
- **Anna Cushman - CVR/Sound Spectrum**
- **John Schade - Radar Processing**
- **Bill English - Air Traffic Control**
- **Captain Paul Misencik - Pilot Interviews**
- **Captain Dave Tew - Pilot Interviews**
- **Captain Paul Weston - Pilot Interviews**
- **Sandy Rowlett - Pilot Interviews**
- **Amy Penwell - Editor**



Other NTSB Participants (South Dakota)

- Robert Francis - Vice Chairman, NTSB
- Denise Daniels - Special Assistant to VC
- Paul Schlamm - Public Affairs
- Frank Ciaccio - Family Affairs/Forensics
- Kristy Welch - Staff Assistant



Parties to the Investigation

- Sunjet Aviation, Inc.
- Learjet, Inc.
- Allied Signal, Inc.
- Federal Aviation Administration



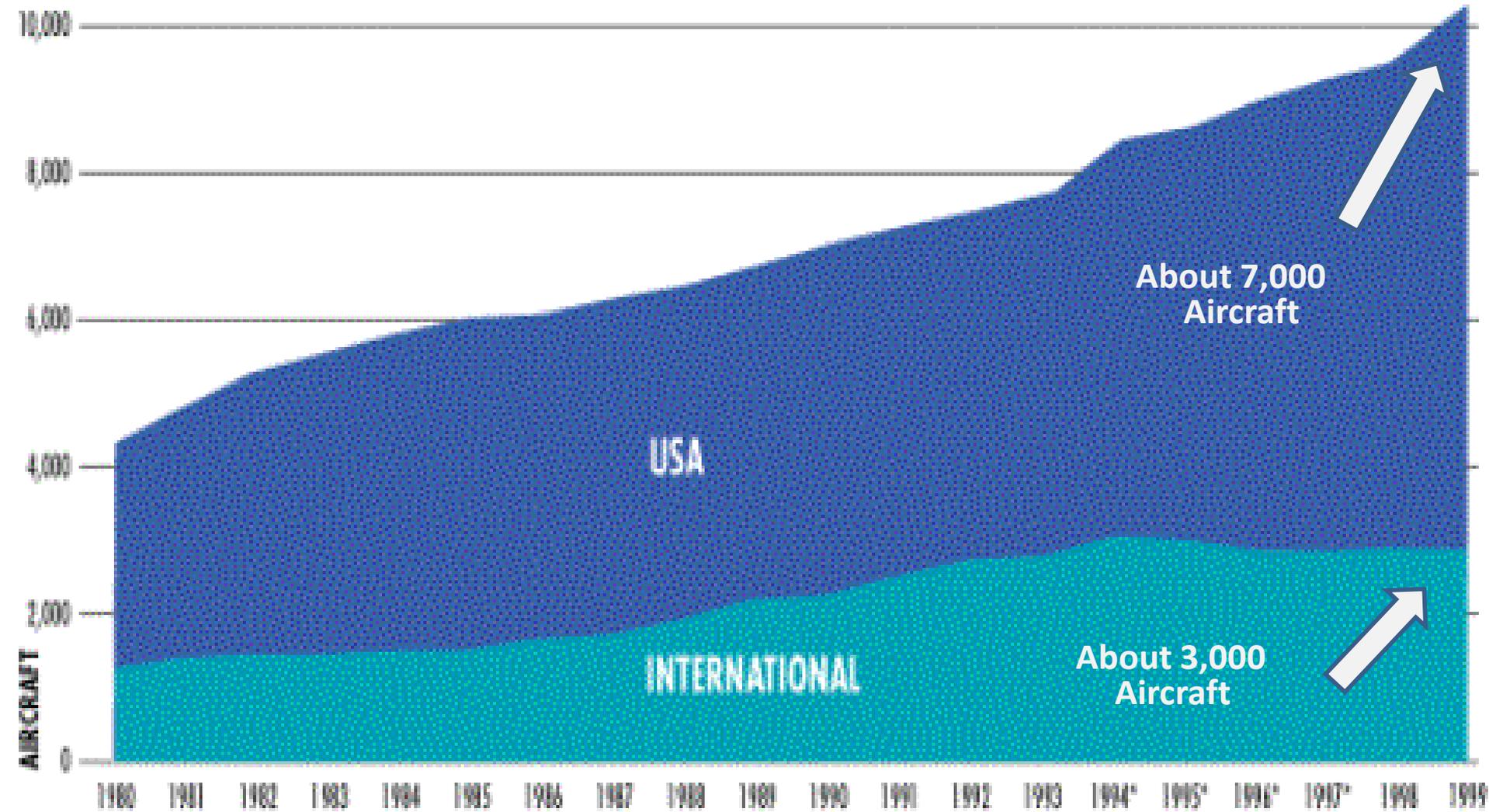
Business Aviation General Information



WORLDWIDE BUSINESS JET FLEET, 1980-1999

1999 Total Worldwide Business Jet Fleet = 10,238

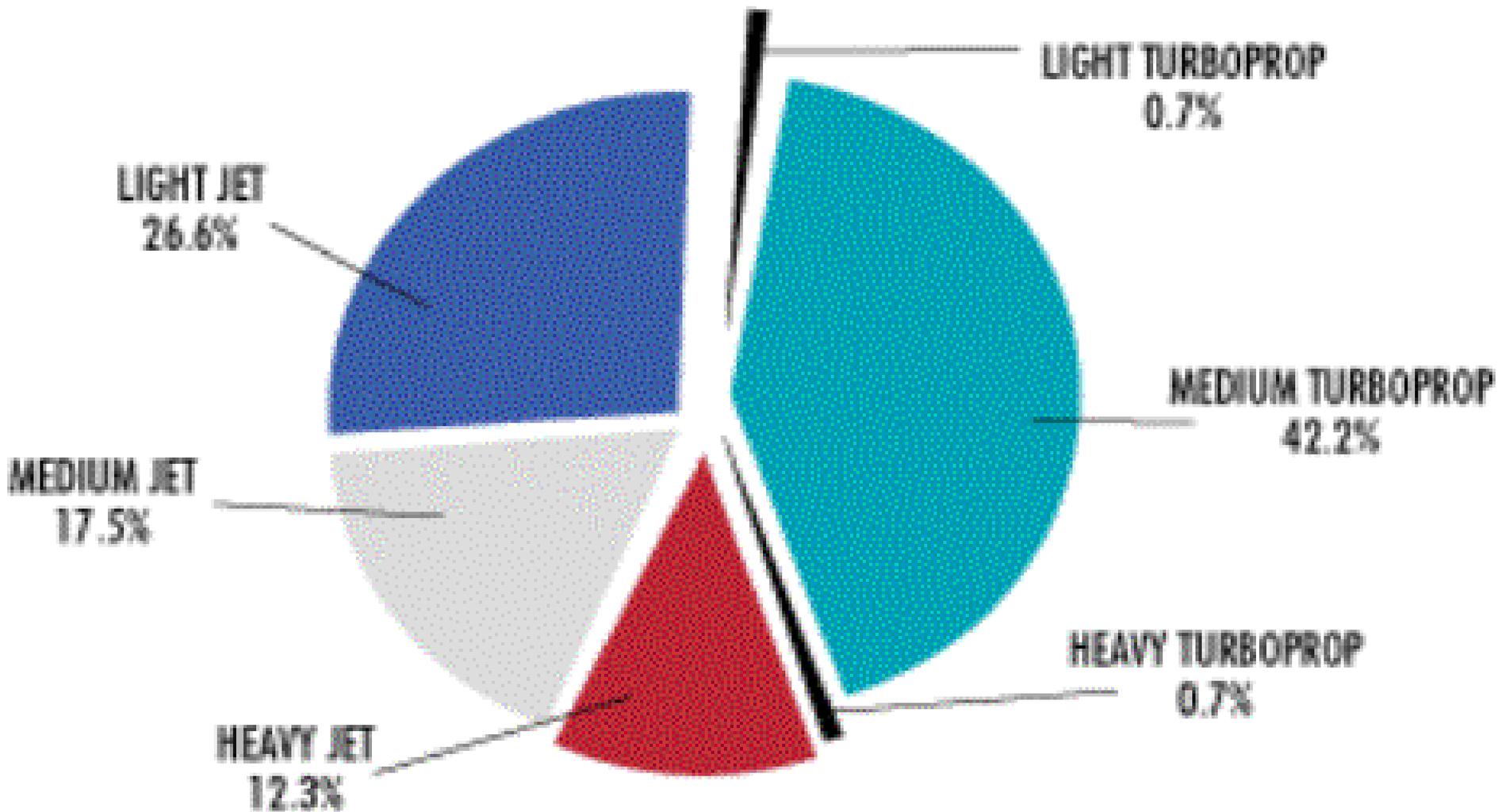
Source: AirData, Inc., Wichita, KS, 2000



*Includes business jets in military service

U.S. TURBINE FIXED-WING FLEET BY TYPE, 1999

Total U.S. Turbine Fleet = 13,148



Source: A+Data, Inc., Wichita, KS, 2000

NUMBER OF FRACTIONAL OWNERS (NETJETS, FLEXJET & TRAVELAIR COMBINED)

Source: AirData, Inc., Wichita, KS, 2000

