ADF/ NDB Systems

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Overview

• What ADF and NDB stand for
• How ADF and NDB is used in aviation
• Who uses ADF and NDB
• A few cool looking photos
• Review
• Works cited
ADF

- ADF = Automatic Direction Finder
- An ADF is essential to flying IFR flights
More on ADF

- All ADFs, both older and newer, need two antennas to operate.
The NDB & ADF

- **NDB** = Non-directional Radio Beacon
- **ADF** = Automatic Direction Finder
- **NDB** (ground station) broadcasts low/medium frequency radio transmission
- Aircraft ADF receiver receives NDB transmission
More on NDB

- NDB for Area Navigation and Instrument Approaches
- NDB is often the Outer Marker for ILS
Weaknesses of NDB/ADF System

• Magnetic Interference
  – Thunderstorms
  – Solar activity
  – Any large metal (iron ferrite)
  – Location of ADF Antenna is critical
  – NDB range – not great
Sum It Up!

• ADF stands for Automatic Direction Finder
• NDB stands for Non-directional Radio Beacon
• NDB/ADF is used heavily in IFR flights
• Everybody who flies IFR uses these two Systems
Works Cited

- www.globalmajic.com
- http://www.flightsimaviation.com/aviation_theory_3_Non_Directional_Beacons_NDB.html
- http://www.flickr.com