

# 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

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