

ATMO 489: Radar Meteorology

Laboratory #2, 09/11/06

Radar Scanning and Operations, Part II

Describing Radar Data: The Danville-to-Danville (DD) Air-Taxi Route

Due: By beginning of next lab session

Questions (75 points):

1. (50 points) *Team ADRAD Operations and Scanning:* In your groups, carefully follow the ADRAD power up and power down instructions found on the class web page in the lab materials section. Have at least one member of your team take detailed notes on the procedures to optimize and improve the instructions. Using these notes and lab #1 as a baseline, create a new and improved set of power up, ppi scanning operations, product looping, and power down instructions. Your final team product should be a PDF document that should be mailed to Kaycee and Larry from one member of your group.
2. (25 points) *Airport and In-route Weather for the daily Danville, KY (KDNV) to Danville, IL (KDVK) "DD Air-Taxi" Route.*

Airport information:

KDNV: <http://www.airnav.com/airport/DNV>

KDVK: <http://www.airnav.com/airport/KDVK>

Using WSR-88D data available from the Internet or GARP, provide a 100-200 word written description of the airport and in route *precipitation* conditions for the daily air taxi flight from KDNV (Danville, IL) to KDVK (Danville, KY) that is scheduled to occur from about 1730 to 1830 UTC today.

A couple of recommended radar sites online include:

http://www.nws.noaa.gov/radar_tab.php

<http://www.rap.ucar.edu/weather/radar/>

To simplify your radar weather discussion, assume that flight level weather is represented by low-level PPI radar reflectivity imagery. Be sure to discuss the organization, intensity, and movement of any precipitation systems evident on WSR-88D imagery relative to the airport locations and direct route between KDNV and KDVK.