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Technical Implementation Notice 12-53
National Weather Service Headquarters Washington DC
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From: Richard J. Vogt
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Subject: WSR-88D Build 13.1 Beta Test and Deployment
 Started October 29, 2012

The NEXRAD Program started a Beta Test of Radar Data Acquisition/Radar Product Generator (RDA/RPG) Build 13.1 the week of October 29, 2012 at Wichita, KS (KICT). The Build 13.1 Beta Test will also be conducted at the following three sites:

SITE	APPROXIMATE START DATE
Vance AFB, OK (KVNX)	13 November
Yuma, AZ (KYUX)	27 November
South Kauai, HI (PHKI)	4 December

A summary of the major changes in Build 13.1 follows:

1. Re-implements the Automated Volume Scan Evaluation and Termination (AVSET) and improved Clutter Mitigation Decision (CMD) algorithms at FAA and NWS (redundant RDA) WSR-88Ds where the Dual Polarization modification has been completed. AVSET terminates the current volume scan after the radar has scanned all elevations with significant reflectivity returns resulting in lower elevations scanned more frequently. The improved CMD algorithm (Dual Polarization variables added) better identifies ground clutter for removal by radar filters.

2. Implements the 2-Dimensional Velocity Dealiasing Algorithm (2DVDA). This new algorithm increases the area of properly dealiased velocity data and reduces the number of false mesocyclone detections by the Mesocyclone Detection Algorithm. Additional 2DVDA information is available at:

<http://www.roc.noaa.gov/WSR88D/NewRadarTechnology/NewTechDefault.aspx>

3. Implements the RPG software required to add the remaining eight Air Force WSR-88D Level 2 data streams to the Level 2 Data Collection Network. Routers also need to be installed. The NWS will release more specific 2013 turn-on dates for these data flows by the end of this year.

If you have questions or comments, please contact:

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National Technical Implementation Notices are online at:

<http://www.weather.gov/os/notif.htm>

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