

WSR-88D Program Software Changes
That May Impact
Radar Product Central Collection Dissemination Service (RPCCDS) Users

Updated 5 October 2009

PURPOSE:

This summary is intended to assist RPCCDS users plan for WSR-88D changes which may impact data format, availability, uses, or data quality.

CURRENT STATUS:

Build 11: Deployment of RPG and RDA Build 11.2 software to field sites is scheduled to begin in November 2009. The configuration control requests (CCRs) included in Build 11.2 are at: <http://www.roc.noaa.gov/WSR88D/BuildInfo/SWBuildsList.aspx>. Most changes are minor corrections and enhancements.

Change in Clutter Filter Control (CFC) Product Names. As described in Technical Implementation Notice (TIN) 09-35 issued Sep 30, 2009, Change WSR-88D Clutter Filter Control Product AWIPS Category, Effective Oct 27, 2009; and Data Mgt Message 08-09.01, Central Collection and Distribution of WSR-88D CFC Products effective Oct 27, 2009, the AWIPS Category Name of the WSR-88D Clutter Filter Control Product, Product Number 34, will begin to change from "NCF" to "NC1," "NC2," "NC3," "NC4," and "NC5." The number 1 through 5 will reflect the radar segment 1 through 5. On the Central Server FTP site, instead of "DS.34CFC," the products will be stored in FTP Directory Names: "DS.34CF1," "DS.34CF2," "DS.34CF3," "DS34CF4," and "DS.34CF5." The text of TINs are available at: <http://www.nws.noaa.gov/om/notif.htm>

FUTURE CHANGES:

Build 12: RPG Build 12 software will be installed at a few Beta Test sites beginning in April 2010. Software deployment to the field will begin in June 2010 in advance of a site's dual polarization (Dual Pol) modification. The CMD Algorithm will not be in the first Dual Pol RDA software build, but is expected to return in the first government-developed RDA build near the end of the Dual Pol deployment. The major changes in the build are:

- (1) Dual Pol related algorithms and products will be activated once the site's Dual Pol modification is made. Which products will be added to the central collection/RPCCDS data stream is being explored. Sample products will be provided in advance. Eventual removal of the legacy precipitation algorithms will take place (date and software build to be determined) after objective criteria (under development) are met.
- (2) Remove Legacy Mesocyclone Algorithm (Product #60). A new-science version of this algorithm, the Mesocyclone Detection Algorithm, was implemented in the WSR-88D several years ago. The Combined Attributes association was transferred from the legacy algorithm product to the new product (Product #141). NWS Technical Implementation

Notice (TIN) 09-31 issued Sep 23 2009, contains more information about the deletion of the WSR-88D Legacy Mesocyclone Algorithm and associated product. The text of TINs are available at: <http://www.nws.noaa.gov/om/notif.htm>

(3) Integration of Super Resolution Data into the Mesocyclone Detection Algorithm (MDA). The MDA will use Super Resolution data. Just as Super Resolution data can enable forecasters to detect rotations at longer distances and earlier, this algorithm can take advantage of the data too.

Dual Pol Modification. The first Beta Test and use of the Dual Pol modification is scheduled for July 2010. The 2-year deployment of the modification is scheduled to begin in October 2010 and be completed by December 2012. The deployment schedule is in a draft status. Additional information on the Dual Polarization Project is available at: <http://www.roc.noaa.gov/WSR88D/DualPol/Default.aspx>.

ADDITIONAL INFORMATION:

The ROC has a URL (<https://www.roc.noaa.gov/ops/ssm.asp>) for users to obtain:

- (1) A list of sites and which RPG and RDA software build the site is using, and
- (2) A list of sites and which volume coverage pattern the site is using, during the last automated hourly ROC call to the RPG.

Training Material: Warning Decision Training Branch (WDTB) software training materials prepared for NEXRAD agency operators are at: <http://www.wdtb.noaa.gov/buildTraining/>.

RPG Software Available: The NWS has prepared a LINUX version of the WSR-88D RPG software called "The Common Operations and Development Environment" (CODE). The Build 11 software is available at: <http://www.weather.gov/code88d/>.

June 2009 Family of Service (FOS) Presentation: The slides presented in the WSR-88D portion of the June 2009 FOS meeting are at: <http://www.weather.gov/datamgmt/fos/fosmtg062509.html>

Send suggestions, comments and questions concerning this summary to:

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