

NOUS41 KWBC 251854
PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 09-41
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
150 PM EDT WED NOV 25 2009

TO: SUBSCRIBERS
-FAMILY OF SERVICES /FOS/
-NOAA WEATHER WIRE SERVICE /NWWS/
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK /EMWIN/
-SATELLITE BROADCAST NETWORK /NOAAPORT/
-OTHER NATIONAL WEATHER SERVICE /NWS/ CUSTOMERS AND
PARTNERS... AND NWS EMPLOYEES

FROM: RICHARD J. VOGT
DIRECTOR... WSR-88D RADAR OPERATIONS CENTER

SUBJECT: ADDITION OF HIGHER RESOLUTION WSR-88D PRODUCTS TO
SBN/NOAAPORT AND RPCCDS: EFFECTIVE FEBRUARY 9 2010

EFFECTIVE TUESDAY FEBRUARY 9 2010... AT APPROXIMATELY 1500
COORDINATED UNIVERSAL TIME /UTC/... THE NWS WILL BEGIN
DISSEMINATING RADAR PRODUCTS LISTED IN TABLE 1 VIA THE RPCCDS
AND SBN/NOAAPORT.

NWS IS UPDATING REQUIREMENTS TO PROVIDE HIGHER RESOLUTION
VERSIONS OF EXISTING WEATHER SURVEILLANCE RADAR-1988... DOPPLER
/WSR-88D/ PRODUCTS FOR SATELLITE BROADCAST NETWORK /SBN/...
NOAAPORT AND RADAR PRODUCT CENTRAL COLLECTION DISSEMINATION
SERVICE /RPCCDS/ DISTRIBUTION.

TABLE 1: WMO HEADINGS FOR WSR-88D RADAR PRODUCT ADDITIONS

| # | TTUSI | NNN | PRODUCT DESCRIPTION | DIRECTORY |
|----|--------|-----|---------------------------------------|-----------|
| 1 | SDUS5I | NOQ | BASE REFLECTIVITY 94/DR 256LVL 0.5DEG | DS. P94R0 |
| 2 | SDUS5I | NAQ | BASE REFLECTIVITY 94/DR 256LVL 0.9DEG | DS. P94RA |
| 3 | SDUS2I | N1Q | BASE REFLECTIVITY 94/DR 256LVL 1.5DEG | DS. P94R1 |
| 4 | SDUS2I | NBQ | BASE REFLECTIVITY 94/DR 256LVL 1.8DEG | DS. P94RB |
| 5 | SDUS2I | N2Q | BASE REFLECTIVITY 94/DR 256LVL 2.4DEG | DS. P94R2 |
| 6 | SDUS2I | N3Q | BASE REFLECTIVITY 94/DR 256LVL 3.4DEG | DS. P94R3 |
| 7 | SDUS5I | NOU | BASE VELOCITY 99/DV 256LVL 0.5DEG | DS. P99V0 |
| 8 | SDUS5I | NAU | BASE VELOCITY 99/DV 256LVL 0.9DEG | DS. P99VA |
| 9 | SDUS2I | N1U | BASE VELOCITY 99/DV 256LVL 1.5DEG | DS. P99V1 |
| 10 | SDUS2I | NBU | BASE VELOCITY 99/DV 256LVL 1.8DEG | DS. P99VB |
| 11 | SDUS2I | N2U | BASE VELOCITY 99/DV 256LVL 2.4DEG | DS. P99V2 |
| 12 | SDUS2I | N3U | BASE VELOCITY 99/DV 256LVL 3.4DEG | DS. P99V3 |
| 13 | SDUS5I | DVL | DIGITAL VERTICAL INTEG LIQUID 134/DVL | DS. 134IL |
| 14 | SDUS7I | EET | ENHANCED ECHO TOPS 135/EET | DS. 135ET |

THESE ARE HIGHER RESOLUTION VERSIONS OF PRODUCTS CURRENTLY BEING
DISSEMINATED. ON THE TOC FTP SERVER... WSR-88D PRODUCTS WILL BE
PLACED IN THE PRODUCT NAMED SUBDIRECTORIES LISTED IN TABLE 1
BELOW THE FOLLOWING DIRECTORY:

FTP: //TGFTP. NWS. NOAA. GOV/SL. US008001/DF. OF/DC. RADAR/

TO PROVIDE A MORE GRADUAL INCREASE IN DATA THROUGHPUT... THE NWS
WILL BEGIN CENTRAL COLLECTION OF THE LOWEST TWO ELEVATIONS IN
FEBRUARY 2010 AND THEN ADD THE REMAINDER OF THE ELEVATIONS BY
APRIL 2010. THE NWS PLANS TO STOP DISSEMINATING THE LOW
RESOLUTION PRODUCTS LISTED IN TABLE 2 ON DECEMBER 1 2010.

TABLE 2: WMO HEADINGS FOR DISCONTINUED WSR-88D RADAR PRODUCTS

| # | TTUSII | NNN | PRODUCT DESCRIPTION | DI RECTORY |
|----|--------|-----|-------------------------------------|------------|
| 1 | SDUS5I | NOR | BASE REFLECTIVITY 19/R 16LVL 0.5DEG | DS. P19R0 |
| 2 | SDUS2I | N1R | BASE REFLECTIVITY 19/R 16LVL 1.5DEG | DS. P19R1 |
| 3 | SDUS2I | N2R | BASE REFLECTIVITY 19/R 16LVL 2.4DEG | DS. P19R2 |
| 4 | SDUS3I | N3R | BASE REFLECTIVITY 19/R 16LVL 3.4DEG | DS. P19R3 |
| 5 | SDUS7I | NOZ | BASE REFLECTIVITY 20/R 16LVL 0.5DEG | DS. P20-R |
| 6 | SDUS6I | NOW | BASE VELOCITY 25/V 16LVL 0.5DEG | DS. P25-V |
| 7 | SDUS5I | NOV | BASE VELOCITY 27/V 16LVL 0.5DEG | DS. P27V0 |
| 8 | SDUS7I | N1V | BASE VELOCITY 27/V 16LVL 1.5DEG | DS. P27V1 |
| 9 | SDUS6I | N2V | BASE VELOCITY 27/V 16LVL 2.4DEG | DS. P27V2 |
| 10 | SDUS6I | N3V | BASE VELOCITY 27/V 16LVL 3.4DEG | DS. P27V3 |

WHEN FULLY IMPLEMENTED... THE NOAAPORT AND RPCCDS COMMUNICATIONS THROUGHPUT OF WSR-88D PRODUCTS WILL DOUBLE. FOR EACH RADAR... THE AVERAGE HOURLY PRODUCT VOLUME VIA RPCCDS WILL BE APPROXIMATELY 5.2 MEGABYTES /MB/ AND THE AVERAGE DAILY VOLUME WILL BE 124.2 MB. WHEN FULLY IMPLEMENTED... THE AVERAGE DAILY VOLUME FOR ALL 155 WSR-88D RADARS WILL BE 20 GIGABYTES /GB/. WORST CASE HOURLY THROUGHPUT IS ESTIMATED TO REACH 19 MB FOR A SINGLE RADAR AND 1.5 GB FOR ALL 155 RADARS. ON NOAAPORT... PRODUCTS ARE FURTHER COMPRESSED AND THEREFORE THROUGHPUT WILL BE REDUCED SOMEWHAT.

NWS HAS ESTABLISHED THE FOLLOWING WEB SITE TO PROVIDE PROJECT PLANS AND STATUS... ADDITIONAL INFORMATION AND TO PREVIEW SAMPLE PRODUCTS:

[HTTP://WWW.ROC.NOAA.GOV/WSR88D/LEVEL_III/LEVEL3INFO.ASPX](http://www.roc.noaa.gov/WSR88D/LEVEL_III/LEVEL3INFO.ASPX)

THE REFERENCED MATERIALS WILL BE INITIALLY AVAILABLE AT:

[FTP://FTP.ROC.NOAA.GOV/PUB/HIGHERRESPRODUCTS](ftp://ftp.roc.noaa.gov/pub/higherresproducts)

UNTIL THEY CAN BE LOADED ON THE ROC WEB SITE.

THE FORMATS FOR THE ADDED PRODUCTS ARE DESCRIBED IN THE INTERFACE CONTROL DOCUMENT FOR RPG TO CLASS 1 USER - BUILD 11.0... AVAILBLE AT:

[HTTP://WWW.ROC.NOAA.GOV/WSR88D/PROGRAM/ICDS.ASPX](http://www.roc.noaa.gov/WSR88D/PROGRAM/ICDS.ASPX)

IF YOU HAVE QUESTIONS OR COMMENTS... PLEASE CONTACT:

TIM CRUM
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 TIM. D. CRUM@NOAA. GOV
 OR

MIKE I STOK
 NWS... OFFICE OF SCIENCE AND TECHNOLOGY
 SILVER SPRING... MARYLAND
 MICHAEL. I STOK@NOAA. GOV

IF YOU HAVE QUESTIONS ABOUT THE NOAAPORT ACTIVATION OR DATA FLOW OF THESE PRODUCTS... PLEASE CONTACT:

BRIAN GOCKEL
 NWS... OFFICE OF SCIENCE AND TECHNOLOGY

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THE CENTRALLY COLLECTED WSR-88D PRODUCTS WILL BE ARCHIVED AT THE
NATIONAL CLIMATIC DATA CENTER /NCDC/ AND WILL BE AVAILABLE FOR
DOWNLOAD FROM:

[HTTP: //HURRI CANE. NCDC. NOAA. GOV/PLS/PLHAS/HAS. DSSELECT](http://hurricane.ncdc.noaa.gov/pls/plhas/has.dsselect)

NATIONAL OTHER TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT
/USE LOWERCASE/:

[HTTP: //WWW. WEATHER. GOV/OS/NOTI F. HTM](http://www.weather.gov/os/notif.htm)

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