

Higher Resolution Level-III Products Technical Information Notice

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.

Below is the Technical Information Notice with details:

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

#	TTUSII	NNN	PRODUCT DESCRIPTION	DIRECTORY
1	SDUS5I	N0Q	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	N0U	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 DISEMINATING 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				DIRECTORY
1	SDUS5I	N0R	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	N0Z	BASE REFLECTIVITY	20/R	16LVL	0.5DEG	DS.P20-R
6	SDUS6I	N0W	BASE VELOCITY	25/V	16LVL	0.5DEG	DS.P25-V
7	SDUS5I	N0V	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

THE REFERENCED MATERIALS WILL BE INITIALLY AVAILABLE AT:

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...AVAILABLE AT:

HTTP://WWW.ROC.NOAA.GOV/WSR88D/PROGRAM/ICDS.ASPX

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

TIM CRUM
WSR-88D RADAR OPERATIONS CENTER
1200 WESTHEIMER DRIVE
NORMAN...OK 73069
TIM.D.CRUM@NOAA.GOV
OR

MIKE ISTOK
NWS...OFFICE OF SCIENCE AND TECHNOLOGY
SILVER SPRING...MARYLAND
MICHAEL.ISTOK@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
SILVER SPRING...MARYLAND
BRIAN.GOCKEL@NOAA.GOV

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

HTTP://HURRICANE.NCDC.NOAA.GOV/PLS/PLHAS/HAS.DSSELECT

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

HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM

\$\$
NNNN