

NOUS41 KWBC DDHHMM
PNSWSH

PUBLIC INFORMATION STATEMENT... COMMENT REQUEST
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC
1015 AM EST FRI FEB 12 2010

TO: SUBSCRIBERS
-FAMILY OF SERVICES
-NOAA WEATHER WIRE SERVICE
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK
-NOAAPORT
-OTHER USERS AND NWS EMPLOYEES

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

SUBJECT: SOLICITING COMMENTS BY MARCH 19 2010 ON PLANS TO
ADD DUAL POLARIZATION WSR-88D PRODUCTS TO SBN/NOAAPORT
AND RPCCDS: EFFECTIVE WITH WSR-88D DUAL POLARIZATION
/NOVEMBER 2010 BETA TEST/

NWS HAS DEVELOPED PROPOSED OPERATIONAL REQUIREMENTS TO DISTRIBUTE
DUAL POLARIZATION WEATHER SURVEILLANCE RADAR-1988... DOPPLER
/WSR-88D/ PRODUCTS VIA SATELLITE BROADCAST NETWORK /SBN/...
NOAAPORT AND RADAR PRODUCT CENTRAL COLLECTION DISSEMINATION
SERVICE /RPCCDS/.

NWS IS REQUESTING COMMENTS THROUGH MARCH 19 2010 ON THE
PROPOSED REQUIREMENTS AND IMPLEMENTATION PLAN. SEND COMMENTS TO:

TIM.D.CRUM@NOAA.GOV
MICHAEL.ISTOK@NOAA.GOV.

IF THE PROPOSED CHANGE IS APPROVED... WE ANTICIPATE IMPLEMENTATION
IN THE NOVEMBER 2010 TIMEFRAME. TABLE 1 CONTAINS THE LIST OF DUAL
POLARIZATION RADAR PRODUCTS PROPOSED TO BE DISTRIBUTED VIA THE
RPCCDS AND SBN/NOAAPORT. THIS DISSEMINATION WILL BEGIN WITH BETA
TESTING OF THE FIRST DUAL POLARIZATION WSR-88D SITE. OTHER BETA
TEST SITES WILL BE ADDED AS THEY ARE MODIFIED. DURING THIS TEST
PERIOD... NWS WILL EVALUATE COMMUNICATIONS LOADING FOR IMPACTS
AND DECIDE WHETHER TO DISSEMINATE DUAL POLARIZATION PRODUCTS
FROM ADDITIONAL SITES MODIFIED DURING FULL SCALE DEPLOYMENT.

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

#	TTUSII NNN PRODUCT DESCRIPTION	DIRECTORY
1	SDUS8I N0X DIFFERENTIAL REFLECTIVITY 159/DZD 0.5DEG	DS.159X0
2	SDUS8I NAX DIFFERENTIAL REFLECTIVITY 159/DZD 0.9DEG	DS.159XA
3	SDUS8I N1X DIFFERENTIAL REFLECTIVITY 159/DZD 1.5DEG	DS.159X1
4	SDUS8I NBX DIFFERENTIAL REFLECTIVITY 159/DZD 1.8DEG	DS.159XB
5	SDUS8I N2X DIFFERENTIAL REFLECTIVITY 159/DZD 2.4DEG	DS.159X2
6	SDUS8I N3X DIFFERENTIAL REFLECTIVITY 159/DZD 3.4DEG	DS.159X3

7	SDUS8I N0C CORRELATION COEFFICIENT 161/DCC 0.5DEG	DS.161C0
8	SDUS8I NAC CORRELATION COEFFICIENT 161/DCC 0.9DEG	DS.161CA
9	SDUS8I N1C CORRELATION COEFFICIENT 161/DCC 1.5DEG	DS.161C1
10	SDUS8I NBC CORRELATION COEFFICIENT 161/DCC 1.8DEG	DS.161CB
11	SDUS8I N2C CORRELATION COEFFICIENT 161/DCC 2.4DEG	DS.161C2
12	SDUS8I N3C CORRELATION COEFFICIENT 161/DCC 3.4DEG	DS.161C3
13	SDUS8I N0K SPECIFIC DIFFERENTIAL PHASE 163/DKD 0.5DEG	DS.163K0
14	SDUS8I NAK SPECIFIC DIFFERENTIAL PHASE 163/DKD 0.9DEG	DS.163KA
15	SDUS8I N1K SPECIFIC DIFFERENTIAL PHASE 163/DKD 1.5DEG	DS.163K1
16	SDUS8I NBK SPECIFIC DIFFERENTIAL PHASE 163/DKD 1.8DEG	DS.163KB
17	SDUS8I N2K SPECIFIC DIFFERENTIAL PHASE 163/DKD 2.4DEG	DS.163K2
18	SDUS8I N3K SPECIFIC DIFFERENTIAL PHASE 163/DKD 3.4DEG	DS.163K3
19	SDUS8I N0H HYDROMETEOR CLASSIFICATION 165/DHC 0.5DEG	DS.165H0
20	SDUS8I NAH HYDROMETEOR CLASSIFICATION 165/DHC 0.9DEG	DS.165HA
21	SDUS8I N1H HYDROMETEOR CLASSIFICATION 165/DHC 1.5DEG	DS.165H1
22	SDUS8I NBH HYDROMETEOR CLASSIFICATION 165/DHC 1.8DEG	DS.165HB
23	SDUS8I N2H HYDROMETEOR CLASSIFICATION 165/DHC 2.4DEG	DS.165H2
24	SDUS8I N3H HYDROMETEOR CLASSIFICATION 165/DHC 3.4DEG	DS.165H3
25	SDUS8I N0M MELTING LAYER 166/ML 0.5DEG	DS.166M0
26	SDUS8I NAM MELTING LAYER 166/ML 0.9DEG	DS.166MA
27	SDUS8I N1M MELTING LAYER 166/ML 1.5DEG	DS.166M1
28	SDUS8I NBM MELTING LAYER 166/ML 1.8DEG	DS.166MB
29	SDUS8I N2M MELTING LAYER 166/ML 2.4DEG	DS.166M2
30	SDUS8I N3M MELTING LAYER 166/ML 3.4DEG	DS.166M3
31	SDUS8I DPR INSTANTANEOUS PRECIPITATION RATE 176/DPR	DS.176PR
32	SDUS8I HHC HYBRID SCAN HYDROMETEOR CLASSIFIC. 177/HHC	DS.177HH
33	SDUS8I OHA ONE HOUR ACCUMULATION 169/OHA	DS.169OH
34	SDUS8I DAA DIGITAL ACCUMULATION ARRAY 170/DAA	DS.170AA
35	SDUS3I PTA STORM TOTAL ACCUMULATION 171/STA	DS.171ST
36	SDUS8I DTA DIGITAL STORM TOTAL ACCUMULATION 172/DSA	DS.172DT
37	SDUS8I DU3 3 HOUR ACCUMULATION 173/DUA	DS.173U1
38	SDUS8I DU6 24 HOUR ACCUMULATION 173/DUA	DS.173U3
39	SDUS8I DOD DIGITAL ONE HOUR DIFFERENCE 175/DOD	DS.174OD
40	SDUS8I DSD DIGITAL STORM TOTAL DIFFERENCE 175/DSD	DS.175SD

IF THE ADDITION OF THESE PRODUCTS CAUSES AN OPERATIONAL IMPACT TO NOAAPORT... THE FALLBACK PLAN IS TO DISTRIBUTE DUAL POLARIZATION PRODUCTS ONLY VIA RPCCDS... WHICH WOULD BE DONE BY FILTERING SDUS8I PRODUCTS FROM THE NOAAPORT UPLINK. THIS FALLBACK PLAN REQUIRES EXCLUSIVE USE OF SDUS8I FOR DUAL POLARIZATION. CURRENTLY THE DIGITAL PRECIPITATION ARRAY PRODUCT /DPA/ HAS THE FOLLOWING HEADING: SDUS8I. CONSEQUENTLY THE PRODUCT IN TABLE 2 WILL BE CHANGED NATIONALLY TO SDUS5I BEFORE BEGINNING DISSEMINATION OF DUAL POLARIZATION PRODUCTS.

TABLE 2: REASSIGNED WMO HEADINGS FOR WSR-88D AND TDWR SPG PRODUCT

TTUSII	NNN PRODUCT DESCRIPTION	DIRECTORY
SDUS5I	DPA HOURLY DIGITAL PRECIPITATION ARRAY 81/DPA	DS.81DPR

WHEN FULLY IMPLEMENTED THE NOAAPORT AND RPCCDS COMMUNICATIONS THROUGHPUT OF WSR-88D PRODUCTS WILL INCREASE BY A FACTOR OF 2.8 ABOVE WHAT WILL BE REACHED AFTER COMPLETING PRODUCT ADDITIONS DESCRIBED IN TECHNICAL IMPLEMENTATION NOTICE 09-41. FOR EACH

WSR-88D... THE AVERAGE HOURLY PRODUCT VOLUME VIA RPCCDS WILL BE APPROXIMATELY 14.5 MEGABYTES /MB/ AND THE AVERAGE DAILY VOLUME WILL BE 345.8 MB. WHEN FULLY IMPLEMENTED THE AVERAGE DAILY VOLUME FOR ALL WSR-88D RADARS WILL BE 53.9 GIGABYTES /GB/. WORST CASE HOURLY THROUGHPUT IS ESTIMATED TO REACH 48 MB FOR A SINGLE RADAR AND 4.2 GB FOR ALL 200 RADARS /155 WSR-88D AND 45 TDWR/. ON NOAAPORT... PRODUCTS ARE FURTHER COMPRESSED AND THEREFORE THROUGHPUT WILL BE REDUCED SOMEWHAT.

ON THE TELECOMMUNICATIONS OPERATIONS CENTER /TOC/ FTP SERVER... RADAR PRODUCTS WILL BE PLACED IN THE PRODUCT NAMED SUBDIRECTORY LISTED IN TABLE 1 BELOW THE FOLLOWING DIRECTORY:

[FTP://TGFTP.NWS.NOAA.GOV/SL.US008001/DF.OF/DC.RADAR/](ftp://TGFTP.NWS.NOAA.GOV/SL.US008001/DF.OF/DC.RADAR/)

NWS HAS ESTABLISHED THE FOLLOWING WEBSITE TO PROVIDE PLANS AND STATUS FOR THE DUAL POLARIZATION PROJECT... ADDITIONAL INFORMATION AND FOR PREVIEWING SAMPLE PRODUCTS:

[HTTP://WWW.ROC.NOAA.GOV/WSR88D/DUALPOL/DEFAULT.ASPX](http://WWW.ROC.NOAA.GOV/WSR88D/DUALPOL/DEFAULT.ASPX)

THE CONTENT AND FORMATS OF THE DUAL POLARIZATION PRODUCTS ARE DESCRIBED IN THE DRAFT PRODUCT SPECIFICATION INTERFACE CONTROL DOCUMENT /ICD/ AND THE DRAFT ICD FOR RPG TO CLASS 1 USER... AVAILABLE AT THE DUAL POL WEB SITE ABOVE.

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](http://HURRICANE.NCDC.NOAA.GOV/PLS/PLHAS/HAS.DSSELECT).

NATIONAL PUBLIC INFORMATION STATEMENTS ARE AVAILABLE ONLINE AT:

[HTTP://WWW.NWS.NOAA.GOV/OM/NOTIF.HTM](http://www.nws.noaa.gov/om/notif.htm)

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