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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 NWS PARTNERS...USERS AND 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](mailto:TIM.D.CRUM@NOAA.GOV)  
[MICHAEL.ISTOK@NOAA.GOV](mailto: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: WORLD METEOROLOGICAL ORGANIZATION /WMO/ HEADINGS FOR WSR-88D  
RADAR PRODUCT ADDITIONS

#	TTUSII	NNN	PRODUCT DESCRIPTION	DIRECTORY
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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	THREE 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
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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 /USE LOWER CASE/:

[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 /USE LOWER CASE/:

[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 POLARIZATION WEBSITE ABOVE.

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

TIM CRUM  
WSR-88D RADAR OPERATIONS CENTER  
NORMAN OKLAHOMA  
[TIM.D.CRUM@NOAA.GOV](mailto:TIM.D.CRUM@NOAA.GOV)

OR

MIKE ISTOK  
NWS...OFFICE OF SCIENCE AND TECHNOLOGY  
SILVER SPRING MARYLAND  
[MICHAEL.ISTOK@NOAA.GOV](mailto: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](mailto: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 /USE LOWER CASE/:

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

NATIONAL PUBLIC INFORMATION STATEMENTS ARE ONLINE AT /USE LOWER CASE/:

[HTTPS://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE](https://WWW.WEATHER.GOV/NOTIFICATION/ARCHIVE)

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