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

SUBJECT: ADDITION OF DUAL POLARIZATION WSR-88D PRODUCTS TO SBN /NOAAPORT AND RPCCDS: EFFECTIVE WITH WSR-88D DUAL POLARIZATION /NOVEMBER 2010 BETA TEST/

CORRECTED TO CHANGE TIN NUMBER FROM 10-22 TO 10-23.

EFFECTIVE WEDNESDAY NOVEMBER 17 2010...AT APPROXIMATELY 1500 COORDINATED UNIVERSAL TIME /UTC/...THE NWS WILL BEGIN DISSEMINATING RADAR PRODUCTS LISTED IN TABLE 1 VIA THE RADAR PRODUCT CENTRAL COLLECTION DISSEMINATION SERVICE /RPCCDS/ AND SBN/NOAAPORT. 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.

REFERENCE PUBLIC INFORMATION STATEMENT SOLICITING COMMENTS:

http://www.weather.gov/os/notification/pns10dual_pol88d.txt

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

<table>
<thead>
<tr>
<th>#</th>
<th>TTUSII</th>
<th>NNN</th>
<th>PRODUCT DESCRIPTION</th>
<th>DIRECTORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SDUS8I</td>
<td>N0X</td>
<td>DIFFERENTIAL REFLECTIVITY 159/DZD 0.5DEG</td>
<td>DS.159X0</td>
</tr>
<tr>
<td>2</td>
<td>SDUS8I</td>
<td>NAX</td>
<td>DIFFERENTIAL REFLECTIVITY 159/DZD 0.9DEG</td>
<td>DS.159XA</td>
</tr>
<tr>
<td>3</td>
<td>SDUS8I</td>
<td>N1X</td>
<td>DIFFERENTIAL REFLECTIVITY 159/DZD 1.5DEG</td>
<td>DS.159X1</td>
</tr>
<tr>
<td>4</td>
<td>SDUS8I</td>
<td>NBX</td>
<td>DIFFERENTIAL REFLECTIVITY 159/DZD 1.8DEG</td>
<td>DS.159XB</td>
</tr>
<tr>
<td>5</td>
<td>SDUS8I</td>
<td>N2X</td>
<td>DIFFERENTIAL REFLECTIVITY 159/DZD 2.4DEG</td>
<td>DS.159X2</td>
</tr>
<tr>
<td>6</td>
<td>SDUS8I</td>
<td>N3X</td>
<td>DIFFERENTIAL REFLECTIVITY 159/DZD 3.4DEG</td>
<td>DS.159X3</td>
</tr>
<tr>
<td>7</td>
<td>SDUS8I</td>
<td>N0C</td>
<td>CORRELATION COEFFICIENT 161/DCC 0.5DEG</td>
<td>DS.161C0</td>
</tr>
<tr>
<td>8</td>
<td>SDUS8I</td>
<td>NAC</td>
<td>CORRELATION COEFFICIENT 161/DCC 0.9DEG</td>
<td>DS.161CA</td>
</tr>
<tr>
<td>9</td>
<td>SDUS8I</td>
<td>N1C</td>
<td>CORRELATION COEFFICIENT 161/DCC 1.5DEG</td>
<td>DS.161C1</td>
</tr>
<tr>
<td>10</td>
<td>SDUS8I</td>
<td>NBC</td>
<td>CORRELATION COEFFICIENT 161/DCC 1.8DEG</td>
<td>DS.161CB</td>
</tr>
<tr>
<td>11</td>
<td>SDUS8I</td>
<td>N2C</td>
<td>CORRELATION COEFFICIENT 161/DCC 2.4DEG</td>
<td>DS.161C2</td>
</tr>
<tr>
<td>12</td>
<td>SDUS8I</td>
<td>N3C</td>
<td>CORRELATION COEFFICIENT 161/DCC 3.4DEG</td>
<td>DS.161C3</td>
</tr>
<tr>
<td>13</td>
<td>SDUS8I</td>
<td>N0K</td>
<td>SPECIFIC DIFFERENTIAL PHASE 163/DKD 0.5DEG</td>
<td>DS.163K0</td>
</tr>
</tbody>
</table>
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 NIH 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.166MB
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 CLASSIFI. 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 SDUS8I 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 OR RPCCDS... THE FALLBACK PLAN IS TO DISTRIBUTE DUAL POLARIZATION PRODUCTS ONLY VIA NOAAPORT OR RPCCDS... WHICH WOULD BE DONE BY FILTERING SDUS8I PRODUCTS FROM DISSEMINATION. THIS 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>
<thead>
<tr>
<th>TTUSII</th>
<th>NNN</th>
<th>PRODUCT DESCRIPTION</th>
<th>DIRECTORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDUS5I</td>
<td>DPA</td>
<td>HOURLY DIGITAL PRECIPITATION ARRAY 81/DPA</td>
<td>DS.81DPR</td>
</tr>
</tbody>
</table>

WHEN FULLY IMPLEMENTED THE NOAAPORT AND RPCCDS COMMUNICATIONS THROUGHPUT OF WSR-88D PRODUCTS WILL INCREASE BY A FACTOR OF 2.8 ABOVE LEVELS REACHED WHEN HIGHER RESOLUTION BASE PRODUCTS WERE ADDED IN EARLY 2010 VIA 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/. WORSTCASE 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/

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

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

NATIONAL PUBLIC INFORMATION STATEMENTS ARE ONLINE AT:

http://www.weather.gov/os/notif.htm

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NNNN