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PNSWSH

Service Change Notice 24-73
National Weather Service Headquarters Silver Spring MD
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From: Terrance J. Clark, Director
 WSR-88D Radar Operations Center

Subject: Change to NEXRAD Level III Product Dissemination on or around
September 16, 2024

WSR-88D Build 23.0 includes the addition of supplemental low elevation angles at two additional sites. Consequently, the following changes to Level III product dissemination will occur starting around September 16, 2024. The Eglin Air Force Base (AFB), FL (KEVX) WSR-88D is planned to be a Build 23.0 Beta Test site, with activities scheduled for the week of September 16, 2024. The Dover AFB, DE (KDOX) will receive Build 23.0 during deployment which begins in November 2024.

Table 1 contains the products and World Meteorological Organization (WMO) Headings that are disseminated from WSR-88D sites that scan at elevation angles below 0.5 degrees.

Table 1: Radar Product WMO Headings and RPCCDS FTP Directory Names

WMO Heading	Product Description and Elevation	RPCCDS FTP Directory
TTAAII NNN		
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SDUS6i NZQ	Base Reflectivity .54nm X 1deg 94/DR 0.3-0.4DEG	DS.p94rz
SDUS5i NZB	Base Reflectivity .13nm X .5deg 153/SDR 0.3-0.4DEG	N/A
SDUS6i NZU	Base Velocity .13nm X 1deg 99/DV 0.3-0.4DEG	DS.p99vz
SDUS5i NZG	Base Velocity .13nm X .5deg 154/SDV 0.3-0.4DEG	N/A
SDUS6i NZF	Power Removed Control 113/PRC 0.3-0.4DEG	DS.113fz
SDUS8i NZX	Differential Reflectivity 159/DZD 0.3-0.4DEG	DS.159xz
SDUS8i NZC	Correlation Coefficient 161/DCC 0.3-0.4DEG	DS.161cz
SDUS8i NZK	Specific Differential Phase 163/DKD 0.3-0.4DEG	DS.163kz
SDUS8i NZH	Hydrometeor Classification 165/DHC 0.3-0.4DEG	DS.165hz
SDUS8i NZM	Melting Layer 166/ML 0.3-0.4DEG	DS.166mz

Note: The abbreviation DEG is used to denote degrees elevation angle, while deg denotes degrees azimuth angle resolution.

These products will be available via NOAAPort and from the RPCCDS FTP site at <https://tgftp.nws.noaa.gov/SL.us008001/DF.of/DC.radar/> at the indicated directory names. Exceptions are that super-resolution reflectivity and velocity products (153/SDR, 154/SDV) are only

disseminated on NOAAPort and SDUS6i products are only disseminated on RPCCDS.

Table 2 contains the list of lower elevation WSR-88D sites added with Build 23.0, WMO Headings indicating the originating area (I) and site (CCCC), the elevation angle and middle character of the NNN Advanced Weather Interactive Processing System (AWIPS) ID group, and the year that the lower elevation angle scan will begin.

Table 2: Originating and Radar Site WMO Headings of Lower Elevations

WMO Heading	AWIPS ID	Site Location	Elevation	Begin
TTAAII CCCC	NNNNXX	City and State	Angle/N	Year
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SDUSi1 KAKQ	nnnDOX	Dover AFB, DE	0.3/Z	2024
SDUSi4 KMOB	nnnEVX	Eglin AFB, FL	0.3/Z	2024

Low elevation product dissemination began in 2020 at other sites. See Service Change Notice (SCN) [20-42](#), [23-96](#), and [24-09](#) for more information and the list of other lower elevation sites.

Since WSR-88D Build 19.0, sites have the option to disable/enable scanning at elevation angles below 0.5 degrees. Base Tilt is the name given to volume coverage patterns (VCPs) that include the additional lower elevation cut. When Base Tilt is enabled, the additional lower elevation cut is scanned, and the General Status Message will have Bit 7 set in the VCP Supplemental Data field. Depending on the Base Tilt status, the 0.5 degree or the lower elevation angle scan will be repeated when Supplemental Adaptive Intra-Volume Low-Level Scan (SAILS) or Mid-Volume Rescan of Low-Level Elevations (MRLE) are enabled. A description of SAILS and MRLE is available at:

<https://www.roc.noaa.gov/WSR88D/NewRadarTechnology/NewTechDefault.aspx>

Please direct comments or report impacts from this change to:

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National Public Information Statements are online at:

<https://www.weather.gov/notification/>

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