

RADAR PRODUCTS THROUGH THE NOAA PORT SATELLITE BROADCAST (WSR-88D and TDWR PRODUCTS)

UPDATED October 23, 2023

WSR-88D products

PRODUCT	PRODUCT HEADERS		ELEVATION ANGLES (DEGREES)
	RPG HEADER	WMO HEADER	
General Status Message	2/GSM	NXUS6i cccc GSM xxx	Elevation Angle Not Applicable
Base Reflectivity – 248 nmi Range	153/SDR	SDUS5i cccc NXB xxx	-0.2
	153/SDR	SDUS5i cccc NYB xxx	0.0, 0.2
	153/SDR	SDUS5i cccc NZB xxx	0.3, 0.4
	153/SDR	SDUS5i cccc N0B xxx	0.5
	153/SDR	SDUS5i cccc NAB xxx	0.9
	153/SDR	SDUS2i cccc N1B xxx	1.3, 1.5
	153/SDR	SDUS2i cccc NBB xxx	1.8
	153/SDR	SDUS2i cccc N2B xxx	2.4, 2.5
	153/SDR	SDUS2i cccc N3B xxx	3.1, 3.4, 3.5
Base Radial Velocity - 162 nmi Range	154/SDV	SDUS5i cccc NXG xxx	-0.2
	154/SDV	SDUS5i cccc NYG xxx	0.0, 0.2
	154/SDV	SDUS5i cccc NZG xxx	0.3, 0.4
	154/SDV	SDUS5i cccc N0G xxx	0.5
	154/SDV	SDUS5i cccc NAG xxx	0.9
	154/SDV	SDUS2i cccc N1G xxx	1.3, 1.5
	99/DV	SDUS2i cccc NBU xxx	1.8
	99/DV	SDUS2i cccc N2U xxx	2.4, 2.5
	99/DV	SDUS2i cccc N3U xxx	3.1, 3.4, 3.5
Digital Hybrid Scan Reflectivity	32/DHR	SDUS5i cccc DHR xxx	Elevation Angle Not Applicable
Digital Precipitation Array	81/DPA	SDUS5i cccc DPA xxx	Elevation Angle Not Applicable
Composite Reflectivity 16 Data Levels – 124 nmi Range	37/CR	SDUS5i cccc NCR xxx	Elevation Angle Not Applicable
Enhanced Echo Tops	135/EET	SDUS7i cccc EET xxx	Elevation Angle Not Applicable

Velocity Azimuth Display Wind Profile	48/VWP	SDUS3i cccc NVW xxx	Elevation Angle Not Applicable
Storm Relative Mean Radial Velocity	56/SRM	SDUS5i cccc N0S xxx	0.5
Vertical Integrated Liquid	57/VIL	SDUS5i cccc NVL xxx	Elevation Angle Not Applicable
Digital Vertical Integrated Liquid	134/DVL	SDUS5i cccc DVL xxx	Elevation Angle Not Applicable
Storm Tracking Information*	58/STI	SDUS3i cccc NST xxx	Elevation Angle Not Applicable
Mesocyclone*	141/MD	SDUS3i cccc NMD xxx	Elevation Angle Not Applicable
Free Text Message	75/FTM	NOUS6i cccc FTM xxx	Elevation Angle Not Applicable
Digital Differential Reflectivity	159/DZD	SDUS8i cccc NXX xxx	-0.2
	159/DZD	SDUS8i cccc NYX xxx	0.0, 0.2
	159/DZD	SDUS8i cccc NZX xxx	0.3, 0.4
	159/DZD	SDUS8i cccc N0X xxx	0.5
	159/DZD	SDUS8i cccc NAX xxx	0.9
	159/DZD	SDUS8i cccc N1X xxx	1.3, 1.5
	159/DZD	SDUS8i cccc NBX xxx	1.8
	159/DZD	SDUS8i cccc N2X xxx	2.4, 2.5
	159/DZD	SDUS8i cccc N3X xxx	3.1, 3.4, 3.5
Digital Correlation Coefficient	161/DCC	SDUS8i cccc NXC xxx	-0.2
	161/DCC	SDUS8i cccc NYC xxx	0.0
	161/DCC	SDUS8i cccc NZC xxx	0.3, 0.4
	161/DCC	SDUS8i cccc N0C xxx	0.5
	161/DCC	SDUS8i cccc NAC xxx	0.9
	161/DCC	SDUS8i cccc N1C xxx	1.3, 1.5
	161/DCC	SDUS8i cccc NBC xxx	1.8
	161/DCC	SDUS8i cccc N2C xxx	2.4, 2.5
	161/DCC	SDUS8i cccc N3C xxx	3.1, 3.4, 3.5
Digital Specific Differential Phase	163/DKD	SDUS8i cccc NXX xxx	-0.2
	163/DKD	SDUS8i cccc NYK xxx	0.0, 0.2
	163/DKD	SDUS8i cccc NZK xxx	0.3, 0.4

	163/DKD	SDUS8i cccc N0K xxx	0.5
	163/DKD	SDUS8i cccc NAK xxx	0.9
	163/DKD	SDUS8i cccc N1K xxx	1.3, 1.5
	163/DKD	SDUS8i cccc NBK xxx	1.8
	163/DKD	SDUS8i cccc N2K xxx	2.4, 2.5
	163/DKD	SDUS8i cccc N3K xxx	3.1, 3.4, 3.5
Digital Hydrometeor Classification	165/DHC	SDUS8i cccc NXH xxx	-0.2
	165/DHC	SDUS8i cccc NYH xxx	0.0, 0.2
	165/DHC	SDUS8i cccc NZH xxx	0.3, 0.4
	165/DHC	SDUS8i cccc N0H xxx	0.5
	165/DHC	SDUS8i cccc NAH xxx	0.9
	165/DHC	SDUS8i cccc N1H xxx	1.3, 1.5
	165/DHC	SDUS8i cccc NBH xxx	1.8
	165/DHC	SDUS8i cccc N2H xxx	2.4, 2.5
	165/DHC	SDUS8i cccc N3H xxx	3.1, 3.4, 3.5
Melting Layer	166/ML	SDUS8i cccc NXM xxx	-0.2
	166/ML	SDUS8i cccc NYM xxx	0.0, 0.2
	166/ML	SDUS8i cccc NZM xxx	0.3, 0.4
	166/ML	SDUS8i cccc N0M xxx	0.5
	166/ML	SDUS8i cccc NAM xxx	0.9
	166/ML	SDUS8i cccc N1M xxx	1.3, 1.5
	166/ML	SDUS8i cccc NBM xxx	1.8
	166/ML	SDUS8i cccc N2M xxx	2.4, 2.5
	166/ML	SDUS8i cccc N3M xxx	3.1, 3.4, 3.5
Hybrid Scan Hydrometeor Classification	177/HHC	SDUS8i cccc HHC xxx	Elevation Angle Not Applicable
Hybrid Scan Rain Rate Classification	197/RRC	SDUS8i cccc RRR xxx	Elevation Angle Not Applicable
Digital Inst. Precip. Rate (in/hr)	176/DPR	SDUS8i cccc DPR xxx	Elevation Angle Not Applicable
One Hour Precipitation Accumulation	169/OHA	SDUS8i cccc OHA xxx	Elevation Angle Not Applicable

Dig. One Hour Precip. Accum. (unbiased)	170/DAA	SDUS8i cccc DAA xxx	Elevation Angle Not Applicable
Dig. Storm Total Precip. Accumulation	172/DSA	SDUS8i cccc DTA xxx	Elevation Angle Not Applicable
Dig. User-Selectable Accum.: 3hr/hourly	173/DUA	SDUS8i cccc DU3 xxx	Elevation Angle Not Applicable
Dig. User-Selectable Accum.: 24hr/12Z	173/DUA	SDUS8i cccc DU6 xxx	Elevation Angle Not Applicable

* Product is not transmitted when radar is operating in clear air mode

TDWR products

PRODUCT	PRODUCT HEADERS		ELEVATION ANGLES (DEGREES)
	RPG HEADER	WMO HEADER	
General Status Message	2/GSM	NXUS6i cccc GSM xxx	Elevation Angle Not Applicable
Long Range Reflectivity – 225 nmi Range	186/DR	SDUS5i cccc TZL xxx	RDA v2: 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8
Base Reflectivity – 48 nmi Range	180/DR	SDUS5i cccc TZ0 xxx	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8
	180/DR	SDUS2i cccc TZ1 xxx	1.0
	180/DR	SDUS2i cccc TZ2 xxx	1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 3.1, 3.3, 3.4, 3.7
Base Radial Velocity - 48 nmi Range	182/DV	SDUS5i cccc TV0 xxx	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8
	182/DV	SDUS7i cccc TV1 xxx	1.0
	182/DV	SDUS7i cccc TV2 xxx	1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 3.1, 3.3, 3.4, 3.7
Composite Reflectivity 16 Data Levels – 124 nmi Range	37/CR	SDUS5i cccc NCR xxx	Elevation Angle Not Applicable
Velocity Azimuth Display Wind Profile	48/VWP	SDUS3i cccc NVW xxx	Elevation Angle Not Applicable
Vertical Integrated Liquid	57/VIL	SDUS5i cccc NVL xxx	Elevation Angle Not Applicable
Storm Tracking Information	58/STI	SDUS3i cccc NST xxx	Elevation Angle Not Applicable
Mesocyclone	141/MD	SDUS3i cccc NMD xxx	Elevation Angle Not Applicable
Free Text Message	75/FTM	NOUS6i cccc FTM xxx	Elevation Angle Not Applicable