

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

UPDATED March 8, 2011

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 – 124 nmi Range	19/R	SDUS5i cccc N0R xxx	0.5
Base Reflectivity – 248 nmi Range	94/DR	SDUS5i cccc N0Q xxx	0.5
	94/DR	SDUS5i cccc NAQ xxx	0.9
	94/DR	SDUS2i cccc N1Q xxx	1.3, 1.5
	94/DR	SDUS2i cccc NBQ xxx	1.8
	94/DR	SDUS2i cccc N2Q xxx	2.4, 2.5
	94/DR	SDUS2i cccc N3Q xxx	3.1, 3.4, 3.5
Base Reflectivity – 248 nmi Range	20/R	SDUS7i cccc N0Z xxx	0.5
Base Radial Velocity - 124 nmi Range	27/V	SDUS5i cccc N0V xxx	0.5
Base Radial Velocity - 162 nmi Range	99/DV	SDUS5i cccc N0U xxx	0.5
	99/DV	SDUS5i cccc NAU xxx	0.9
	99/DV	SDUS2i cccc N1U 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
Composite Reflectivity 16 Data Levels – 124 nmi Range	37/CR	SDUS5i cccc NCR xxx	Elevation Angle Not Applicable
Echo Tops	41/ET	SDUS7i cccc NET 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	Elevation Angle Not Applicable

		NVW xxx	
Storm Relative Mean Radial Velocity	56/SRM	SDUS5i cccc N0S xxx	0.5
	56/SRM	SDUS2i cccc N1S xxx	1.3, 1.5
	56/SRM	SDUS2i cccc N2S xxx	2.4, 2.5
	56/SRM	SDUS3i cccc N3S xxx	3.1, 3.4, 3.5
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
Digital Vertical Integrated Liquid	134/DVL	SDUS5i cccc DVL xxx	Elevation Angle Not Applicable
Radar Coded Message	74/RCM	SDUS4i cccc RCMxxx	Elevation Angle Not Applicable
Free Text Message	75/FTM	NOUS6i cccc FTM xxx	Elevation Angle Not Applicable
Surface Rainfall Accumulation One Hour Running Total	78/OHP	SDUS3i cccc N1P xxx	Elevation Angle Not Applicable
Surface Rainfall Accumulation Storm Total	80/STP	SDUS5i cccc NTP xxx	Elevation Angle Not Applicable
Digital Precipitation Array	81/DPA	SDUS5i cccc DPA xxx	Elevation Angle Not Applicable
Digital Storm Total Precipitation	138/DSP	SDUS5i cccc DSP xxx	Elevation Angle Not Applicable
Mesocyclone*	141/MD	SDUS3i cccc NMD xxx	Elevation Angle Not Applicable
Archive III Status Product	152/ASP	SDUS4i cccc RSL xxx	Elevation Angle Not Applicable
Digital Differential Reflectivity	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 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 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 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 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
Digital Inst. Precip. Rate(in/hr)	176/DPR	SDUS8i cccc DPR xxx	Elevation Angle Not Applicable
Hybrid Scan Hydrometeor Classification	177/HHC	SDUS8i cccc HHC xxx	Elevation Angle Not Applicable
One Hour Accum	169/OHA	SDUS8i cccc OHA xxx	Elevation Angle Not Applicable
Dig. Accum Array (unbiased)	170/DAA	SDUS8i cccc DAA xxx	Elevation Angle Not Applicable
Storm Total Accum	171/STA	SDUS3i cccc PTA xxx	Elevation Angle Not Applicable
Dig. Storm Total Accum	172/DSA	SDUS8i cccc DTA xxx	Elevation Angle Not Applicable
Dig. User-Selectable Accum:3hr/hrly	173/DUA	SDUS8i cccc DU3 xxx	Elevation Angle Not Applicable
Dig. User-Selectable Accum:24hr/12Z	173/DUA	SDUS8i cccc	Elevation Angle Not Applicable

		DU6 xxx	
Dig. One Hour Difference Accum	174/DOD	SDUS8i cccc DOD xxx	Elevation Angle Not Applicable
Dig. Storm Total Difference Accum	175/DSD	SDUS8i cccc DSD 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	0.6
Base Reflectivity – 48 nmi Range	181/R	SDUS5i cccc TR0 xxx	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8
	181/R	SDUS2i cccc TR1 xxx	1.0
	181/R	SDUS2i cccc TR2 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
Digital Hybrid Scan Reflectivity	32/DHR	SDUS5i cccc DHR xxx	Elevation Angle Not Applicable
Composite Reflectivity 16 Data Levels – 124 nmi Range	37/CR	SDUS5i cccc NCR xxx	Elevation Angle Not Applicable
Echo Tops	41/ET	SDUS7i cccc NET 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
Free Text Message	75/FTM	NOUS6i cccc FTM xxx	Elevation Angle Not Applicable
Surface Rainfall Accumulation One Hour Running Total	78/OHP	SDUS3i cccc N1P xxx	Elevation Angle Not Applicable
Surface Rainfall Accumulation Storm Total	80/STP	SDUS5i cccc NTP xxx	Elevation Angle Not Applicable
Digital Precipitation Array	81/DPA	SDUS5i cccc DPA xxx	Elevation Angle Not Applicable
Digital Storm Total Precipitation	138/DSP	SDUS5i cccc DSP xxx	Elevation Angle Not Applicable
Mesocyclone	141/MD	SDUS3i cccc NMD xxx	Elevation Angle Not Applicable
Archive III Status Product	152/ASP	SDUS4i cccc RSL xxx	Elevation Angle Not Applicable