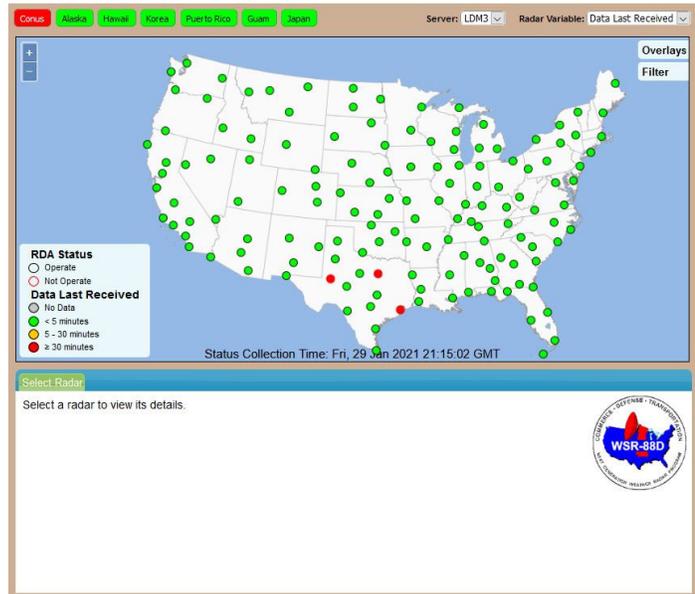


# NEXRAD View

## NEXRAD View Summary

The NEXRAD View display is broken into two separate areas. The upper field is a graphical representation of the NEXRAD sites and current system status. The default display represents the last Level II data received status of every given site. A legend box in the lower left corner indicates the data type being monitored and the various colors associated with the data condition. The '+' and '-' in the upper left corner zoom the map in and out respectively. Scrolling the mouse wheel will allow the user to zoom in or out on the map. Hovering over an individual radar site will cause a pop-up with additional basic information about that site. The display is updated once a minute. Clicking on the site with the pop-up displayed will "Pin" that pop-up to the display. Clicking on the site again will clear the "Pinned" status to remove the pop-up. Clicking on another site will move the "Pinned" status to the next site. Clicking the 'X' in the upper right corner of the pop-up or anywhere on the map will clear the "Pinned" status to remove the pop-up. Only one site can be "Pinned" at a time. Basic details (ICAO, Name, Associated WFO, VCP & Build Status, LDM Version, Date/time, Latency, and Latency Time) are displayed in the pop-up on the Map display.



Radar:	KYUX	X
Location:	Yuma	
Forecast Office:	PSR	
VCP:	R215	
RDA Build:	19	
RDA Status:	Operate	
LDM Version:	6	
Data Time:	Fri, 29 Jan 2021 21:06:00 GMT	
Current Latency:	0.079861 sec	
Average Latency:	0.09 sec	
Max Latency:	0 sec	
Max Latency Time:	Fri, 29 Jan 2021 21:01:01 GMT	
Site Data View	<a href="http://radar.weather.gov">radar.weather.gov</a>	

Basic Detail Pop Up

"Pinning" any individual site will also cause the lower half of the Map view screen to populate tabs with data for that NEXRAD site. This information is detailed NEXRAD information extracted from the Level II Metadata product allowing a technician insight into the quality of the radar and the radar products from the Level II data itself. (RDA Status Data, Performance/Maintenance Data, Adaptation Data, and NEXRAD System Alarms)

## INDICATOR FIELDS (Top Half)

### Pushbuttons:

1. **Sites (Conus, Alaska, Hawaii, Korea, Puerto Rico, Guam, Japan)** – Clicking on any of the buttons will re-center the map for that area to a pre-defined zoom appropriate for that region. The button's color represents the current data status for NEXRAD sites in that region. The button color is determined by the worst case "Data Last Received" scenario for any NEXRAD site within that area. (Any NEXRAD site turns red due to data last received and the button for that area goes red.)
2. **Server** – The operator selected source for populating the data. By default, the current source (white) follows the aggregate, should the aggregate shift to another NL2 server it will auto-update. If an alternate source is manually selected, server is turned (red) and no longer follows the aggregate. Refreshing the browser restores the default state.
3. **Radar Variable - (default: Data Last Received)** Displays nine major NEXRAD statistics on a fleet wide basis. If anything other than the default is selected, the field turns red reminding the operator the default is not selected. Corresponding legends for each variable appear in the lower left hand corner of the upper display for each data type selected.
  - a. **Data Last Received** – indicates the time since the last received Level II data transmission from any given site.
  - b. **Current Latency** – The difference between the data generation timestamp and the time it is received by the NL2 server based on the data last received.
  - c. **Average Latency** – The difference between the data generation timestamp and the time it is received by the NL2 server based on the latency average over the last hour.
  - d. **Max Latency** – The difference between the data generation timestamp and the time it is received by the NL2 server based on the maximum latency over the last hour.
  - e. **Agency** – Hosting NEXRAD partner association.
  - f. **VCP** – Current Volume Coverage Pattern
  - g. **RDA Status** – Current RDA Operational Mode
  - h. **LDM Version** – The Level II Type in accordance with Message 31 in the Interface Control Document.
  - i. **RDA Build Number** – indicated the current RDA Software load.
4. **Overlays Tab**
  - a. **Regions** – Turns on regional indication in the background map.
  - b. **NEXRAD Base Reflectivity** – Shows basic NEXRAD reflectivity overlay information and timestamp from Weather.gov web site.
5. **Filter Tab**

(*default is all cleared*) checking any of the boxes modifies the display to only display the sites meeting that criterion. More than one criterion can be selected. Selecting ANY filter turns the tab red until the boxes are cleared.

**Status Collection Time:** (DDD:dd:mmm:yyyy:HH:MM:SS) – Time of the Web server's most recent NL2 status update. If the data status has not updated in the last 5 update intervals, the text turns red.

RDA Status Data	Performance/Maintenance Data	Adaptation Data	Alarms	Free Text Message
Status Time: Tue, 04 Jun 2019 15:27:43 GMT		Site: KFDR, AltusAFB		
VCP	R212	Control Status	RPG Only	
RDA Build Number	18.1	RDA Alarm Summary	Tower/Util/Transmitter	
Operational Mode	Operational	Aux Pwr Gen State	Util Pwr Avail	
Super Resolution Status	Enabled	Operability Status	Maint Mand	
RDA Status	Operate	Avg XMTR Pwr (W)	1228	

Forecast Office: OUN



NEXRAD View (Lower Half)

### NEXRAD View (Lower Half)

Status Time (DDD:dd:mmm:yyyy:HH:MM:SS) – The message timestamp of the data displayed in tab. For the Alarm tab this is the time the request for alarms was made.  
 Site – (Site ICAO & NEXRAD site location)

### TAB Information

- RDA Status – Basic RDA Parameters extracted from the Level II stream metadata.

RDA Status Data	Performance/Maintenance Data	Adaptation Data	Alarms	Free Text Message
Status Time: Tue, 04 Jun 2019 15:27:43 GMT		Site: KFDR, AltusAFB		
VCP	R212	Control Status	RPG Only	
RDA Build Number	18.1	RDA Alarm Summary	Tower/Util/Transmitter	
Operational Mode	Operational	Aux Pwr Gen State	Util Pwr Avail	
Super Resolution Status	Enabled	Operability Status	Maint Mand	
RDA Status	Operate	Avg XMTR Pwr (W)	1228	

Forecast Office: OUN



- Performance/Maintenance Data – RDA Performance data extracted from the Level II stream metadata.

RDA Status Data	Performance/Maintenance Data	Adaptation Data	Alarms	Free Text Message
Status Time: Tue, 04 Jun 2019 15:31:47 GMT		Site: KFDR, AltusAFB		
Radome Air Temp (C)	28.95	Transitional Pwr Source (TPS)	OK	
Horiz SP Noise (dBm)	-82.4309	Elev Encoder Light	OK	
Horiz LP Noise (dBm)	-89.3	Air Encoder Light	OK	
Horiz Noise Temp (K)	195.193	Linearity	0.994951	
XMTR Peak Pwr (kW)	875.33	Delta dBZ (dB)	0.512043	
XMTR Regenr Svcnt	0	Rot Prod Attenuation (dB)	0.554071	
Receiver Bias	-0.328996	SP Horiz dBZ0 (dBZ)	-43.7374	
Transmitter Imbalance	0.251945	LP Horiz dBZ0 (dBZ)	-33.2	
Performance Check Time	Tue, 04 Jun 2019 15:31:49 GMT	XMTR Leaving Air Temp (C)	27.52	
Equip Shell Temp (C)	15.45	Pwr Source	Utility Pwr	



- Adaptation Data – Basic RDA Adaptation data extracted from the Level II stream metadata.

RDA Status Data	Performance/Maintenance Data	Adaptation Data	Alarms	Free Text Message
Status Time: Tue, 04 Jun 2019 15:31:49 GMT		Site: KFDR, AltusAFB		
XMTR Freq (MHz)	2710	PL-W504 Circulator (dB)	-0.2	
Antenna gain including Radome (dB)	44.8	PL-A5 Ant Detector (dB)	-0.05	
Coho Pwr A114 (dBm)	29.57	PL-1DC1 XMTR Cplr Srv Thru (dB)	0	
AME Horiz Test Signal Power	10.95	Stabo Pwr A112 (dBm)	15.56	
AME Noise Svc Horiz Emiss Noise Pwr (dB)	20.28	PL-Vert IF Helix to 4A116 (dB)	-1.72	
PL-A14 SSB Atten (dB)	-5.94	PL-Horz IF Helix to 4A117 (dB)	0	
PL-1FD1F Anti-alias Filter (dB)	-1.94	PL-2A1A5 Elev Rot Jnt (dB)	0	
PL-1FD1F Bypass Anti-alias Filter (dB)	-2.07	PL-1DC011 to 4A114 (dB)	0	
PL-W502 Harmonic Filter (dB)	-0.1	XMTR Pwr Data Watts Factor (W)	0.000098	
PL-Waveguide Klystron to Switch (dB)	-0.15	Pulse Width XMTR Output SP (ns)	1500	
Pulse Width XMTR Output LP (ns)	4850	PL-W508 Spectrum Filter (dB)	0	
Horiz RECV Noise LP (dBm)	-88.3	Horiz RECV Noise SP (dBm)	-82.5	





