

## Weather Radar Stations (Federal)



### Tags

structure, utilitiesCommunication, location, RADAR, NEXRAD RADAR, TDWR RADAR, Radar Stations

### Summary

To support coastal and ocean planning and other activities pursuant to the Energy Policy Act, Coastal Zone Management Act, Magnuson-Stevens Fishery Conservation and Management Act, National Environmental Policy Act, Rivers and Harbors Act and the Submerged Lands Act.

### Description

These data represent Next-Generation Radar (NEXRAD) and Terminal Doppler Weather Radar (TDWR) weather radar stations within the US. The NEXRAD radar stations are maintained and operated by the National Oceanic and Atmospheric Administration (NOAA). The TDWR radar stations are maintained and operated by the Federal Aviation Administration (FAA). Both radar's are pulsed Doppler types that measure reflectivity out to 460km, and radial velocity and spectrum width out to 300km (NEXRAD) and 90km (TDWR). Both radars automatically scan the atmosphere from the surface to 70,000ft using a rotating parabolic antenna.

### Credits

There are no credits for this item.

### Use limitations

These data are intended for coastal and ocean use planning. Not for navigation.

### Extent

**West** -165.294984    **East** 144.811118  
**North** 65.035556    **South** 13.455833

### Scale Range

**Maximum (zoomed in)** 1:5,000  
**Minimum (zoomed out)** 1:150,000,000

## ArcGIS Metadata

### Topics and Keywords

\* CONTENT TYPE    Downloadable Data

### Citation

TITLE    Weather Radar Stations (Federal)  
PRESENTATION FORMATS    \* digital map

### Resource Details

DATASET LANGUAGES    \* English (UNITED STATES)  
SPATIAL REPRESENTATION TYPE    \* vector  
\* PROCESSING ENVIRONMENT    Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.0.4322

### Extents

EXTENT  
GEOGRAPHIC EXTENT  
BOUNDING RECTANGLE  
EXTENT TYPE    Extent used for searching  
\* WEST LONGITUDE    -165.294984  
\* EAST LONGITUDE    144.811118  
\* NORTH LATITUDE    65.035556  
\* SOUTH LATITUDE    13.455833

\* EXTENT CONTAINS THE RESOURCE Yes  
EXTENT IN THE ITEM'S COORDINATE SYSTEM  
\* WEST LONGITUDE -18400553.449562  
\* EAST LONGITUDE 16120299.916965  
\* SOUTH LATITUDE 1511858.557208  
\* NORTH LATITUDE 9617743.353274  
\* EXTENT CONTAINS THE RESOURCE Yes

## Resource Constraints

### CONSTRAINTS

#### LIMITATIONS OF USE

These data are intended for coastal and ocean use planning. Not for navigation.

## Spatial Reference

### ARC GIS COORDINATE SYSTEM

\* TYPE Projected  
\* GEOGRAPHIC COORDINATE REFERENCE GCS\_WGS\_1984  
\* PROJECTION WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
\* COORDINATE REFERENCE DETAILS

#### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102100  
X ORIGIN -22041545.367140558  
Y ORIGIN -33272760.666300893  
XY SCALE 135368852.55357128  
Z ORIGIN -100000  
Z SCALE 10000  
M ORIGIN -100000  
M SCALE 10000  
XY TOLERANCE 0.001  
Z TOLERANCE 0.001  
M TOLERANCE 0.001  
HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3857

WELL-KNOWN TEXT PROJCS["WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere",GEOGCS  
["GCS\_WGS\_1984",DATUM["D\_WGS\_1984",SPHEROID  
["WGS\_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT  
["Degree",0.0174532925199433]],PROJECTION["Mercator\_Auxiliary\_Sphere"],PARAMETER  
["False\_Easting",0.0],PARAMETER["False\_Northing",0.0],PARAMETER  
["Central\_Meridian",0.0],PARAMETER["Standard\_Parallel\_1",0.0],PARAMETER  
["Auxiliary\_Sphere\_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

### REFERENCE SYSTEM IDENTIFIER

\* VALUE 3857  
\* CODESPACE EPSG  
\* VERSION 8.2.6

## Spatial Data Properties

### VECTOR

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

#### GEOMETRIC OBJECTS

FEATURE CLASS NAME radar\_site\_nexrad\_tdwr  
\* OBJECT TYPE point  
\* OBJECT COUNT 201

### ARC GIS FEATURE CLASS PROPERTIES

FEATURE CLASS NAME radar\_site\_nexrad\_tdwr  
\* FEATURE TYPE Simple  
\* GEOMETRY TYPE Point  
\* HAS TOPOLOGY FALSE  
\* FEATURE COUNT 201  
\* SPATIAL INDEX TRUE  
\* LINEAR REFERENCING FALSE

## Distribution

### DISTRIBUTION FORMAT

\* NAME File Geodatabase Feature Class

## Fields

### DETAILS FOR OBJECT radar\_site\_nexrad\_tdwr

\* TYPE Feature Class  
\* ROW COUNT 201

#### DEFINITION

NEXRAD and TDWR Radar Stations in the US

#### DEFINITION SOURCE

NOAA Coastal Services Center

FIELD OBJECTID

- \* ALIAS OBJECTID
- \* DATA TYPE OID
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Internal feature number

- \* DESCRIPTION SOURCE  
ESRI
- \* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

FIELD Shape

- \* ALIAS Shape
- \* DATA TYPE Geometry
- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Feature geometry

- \* DESCRIPTION SOURCE  
ESRI
- \* DESCRIPTION OF VALUES

Coordinates defining the features.

FIELD siteID

- \* ALIAS siteID
- \* DATA TYPE String
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

DESCRIPTION SOURCE

NOAA Coastal Services Center

FIELD DESCRIPTION

Station ID

DESCRIPTION OF VALUES

Unique value

FIELD siteName

- \* ALIAS siteName
- \* DATA TYPE String
- \* WIDTH 128
- \* PRECISION 0
- \* SCALE 0

DESCRIPTION SOURCE

NOAA Coastal Services Center

FIELD DESCRIPTION

Station Name

DESCRIPTION OF VALUES

Unique value

FIELD radarType

- \* ALIAS radarType
- \* DATA TYPE String
- \* WIDTH 64
- \* PRECISION 0
- \* SCALE 0

DESCRIPTION SOURCE

NOAA Coastal Services Center

FIELD DESCRIPTION

Type of radar

LIST OF VALUES

VALUE NEXRAD

DESCRIPTION Radar type is NEXRAD

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NOAA Coastal Services Center

VALUE TDWR

DESCRIPTION Radar type is TDWR

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NOAA Coastal Services Center

FIELD antennaElevation

- \* ALIAS antennaElevation
- \* DATA TYPE String
- \* WIDTH 20
- \* PRECISION 0

\* SCALE 0  
DESCRIPTION SOURCE  
NOAA Coastal Services Center  
FIELD DESCRIPTION  
Elevation of radar antenna  
DESCRIPTION OF VALUES  
Unique value

## Metadata Details

\* METADATA LANGUAGE English (UNITED STATES)  
SCOPE OF THE DATA DESCRIBED BY THE METADATA \* dataset  
SCOPE NAME \* dataset  
\* LAST UPDATE 2017-01-09  
ARCGIS METADATA PROPERTIES  
METADATA FORMAT ArcGIS 1.0  
METADATA STYLE FGDC CSDGM Metadata  
STANDARD OR PROFILE USED TO EDIT METADATA FGDC  
CREATED IN ARCGIS FOR THE ITEM 2017-01-09 08:39:37  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-01-09 09:51:20  
AUTOMATIC UPDATES  
HAVE BEEN PERFORMED Yes  
LAST UPDATE 2017-01-09 09:50:24