



Where to find National Weather Service GIS data?

The National Weather Service produces many data sets that are offered in formats available for GIS import. While not a comprehensive list, below are some of the most commonly used websites.

[National Weather Service GIS Data](https://www.weather.gov/gis/)

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



This site includes data for current weather, operational forecasts, flash-flood guidance and precipitation data.

[NEXRAD Composites](https://radar.weather.gov/ridge/GIS.html)

<https://radar.weather.gov/ridge/GIS.html>

This site provides radar imagery in a geo-referenced format using associated "world" files.

[Severe Weather Polygons](https://www.weather.gov/gis/NWS_Shapefile)

https://www.weather.gov/gis/NWS_Shapefile

This site contains polygon data for tornadoes, severe thunderstorms, flash floods, and special marine warnings in sets of GIS Shapefiles, available in near real-time.

[National Digital Forecast Database \(NDFD\)](https://www.weather.gov/mdl/ndfd_home)

https://www.weather.gov/mdl/ndfd_home

This database is a collection of gridded forecasts of sensible weather elements such as cloud cover, maximum temperature, etc.

[National Centers for Environmental Information \(NCEI\)](https://gis.ncdc.noaa.gov/maps/ncei)

<https://gis.ncdc.noaa.gov/maps/ncei>

This site is the largest active archive for weather data, including surface, upper air, marine and climate data.

Our Vision:

A Weather-Ready Nation: Society is Prepared for and Responds to Weather-Dependent Events



Know your risk, take action, and be an example in your community!



NWSLosAngeles

NOAA/National Weather Service

**520 North Elevar Street
Oxnard, CA 93030**

Phone: (805) 988-6610

Fax: (805) 988-6613

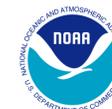
Automated Forecasts: (805) 988-6610 x1

Email: w-lox.webmaster@noaa.gov

Web Address: www.weather.gov/losangeles

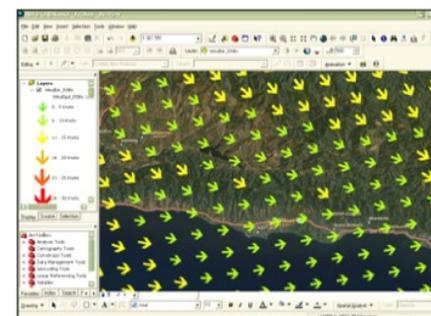


NATIONAL WEATHER SERVICE

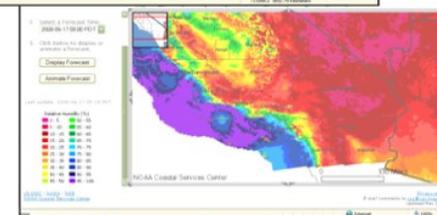


GIS

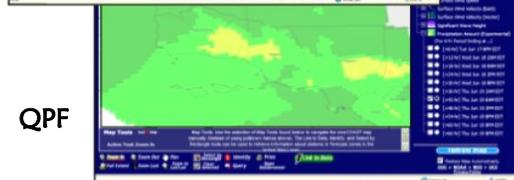
FOR SOUTHERN CALIFORNIA



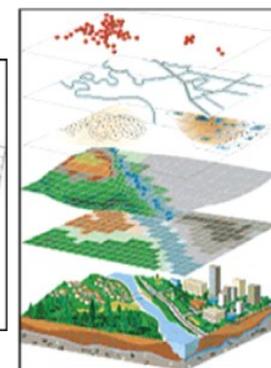
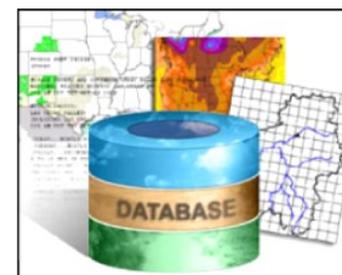
Wind



RH



QPF

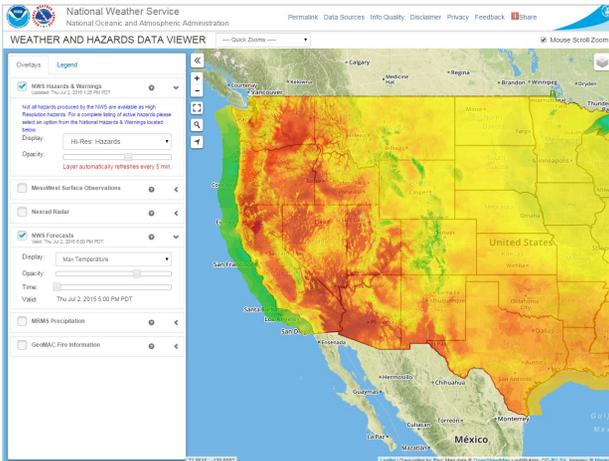


Providing geospatial weather data since 1870



Use of ESRI Story Maps by the National Weather Service

National Weather Service Data Available In GIS Formats



Weather and Hazards Data Viewer displaying a maximum temperature forecast.

Weather and Hazards Data Viewer

The Weather and Hazards Data Viewer provides user access to weather forecasts and hazards planning data as an Internet mapping tool for the purpose of monitoring storms and their associated hazards. A unique feature of this viewer is providing the ability for users to visualize potential impacts of storms. The forecast weather information is provided by the National Oceanic and Atmospheric Administration (NOAA) National Weather Service National Digital Forecast Database (NDFD).

<https://www.wrh.noaa.gov/map/>



Additionally visit:
<https://nowcast.noaa.gov>



NWS Story Map Use

ESRI Story maps are lightweight, open-source web apps that combine web maps created using ESRI's ArcGIS Online (AGOL) with content like text, photos, video, and audio that tell stories about the world.

They are simple to create and are an extremely effective tool to convey the National Weather Service's (NWS) stories of weather, water, and climate.

Within the National Weather Service they are being used as a tool for internal training and research, for sharing geographically-based information with external National Weather Service partners and users, and to tell the story of recent or historic weather events.

<https://go.usa.gov/3W53x>



NWS GIS Compatible Data

- Watches, Warnings & Advisories
- Weather Forecast Data — NDFD (National Digital Forecast Database)
- Statistical Forecast Guidance Data — NDGD (National Digital Guidance Database)
- WSR-88D NEXRAD Radar Imagery
- Tropical Storm/Hurricane Forecast Tracks
- Storm Surge Probabilistic Forecasts
- Flash Flood Guidance (FFG)
- High Resolution Precipitation Estimates
- Climate Data

GIS Formats supported by NWS:

- Shapefiles
- XML/GML
- WCS
- WMS
- netCDF
- KML
- WFS
- PNG / GIF / World Files

National Digital Forecast Database (NDFD) in Shapefile Format

<https://www.wrh.noaa.gov/gis/index.php>

