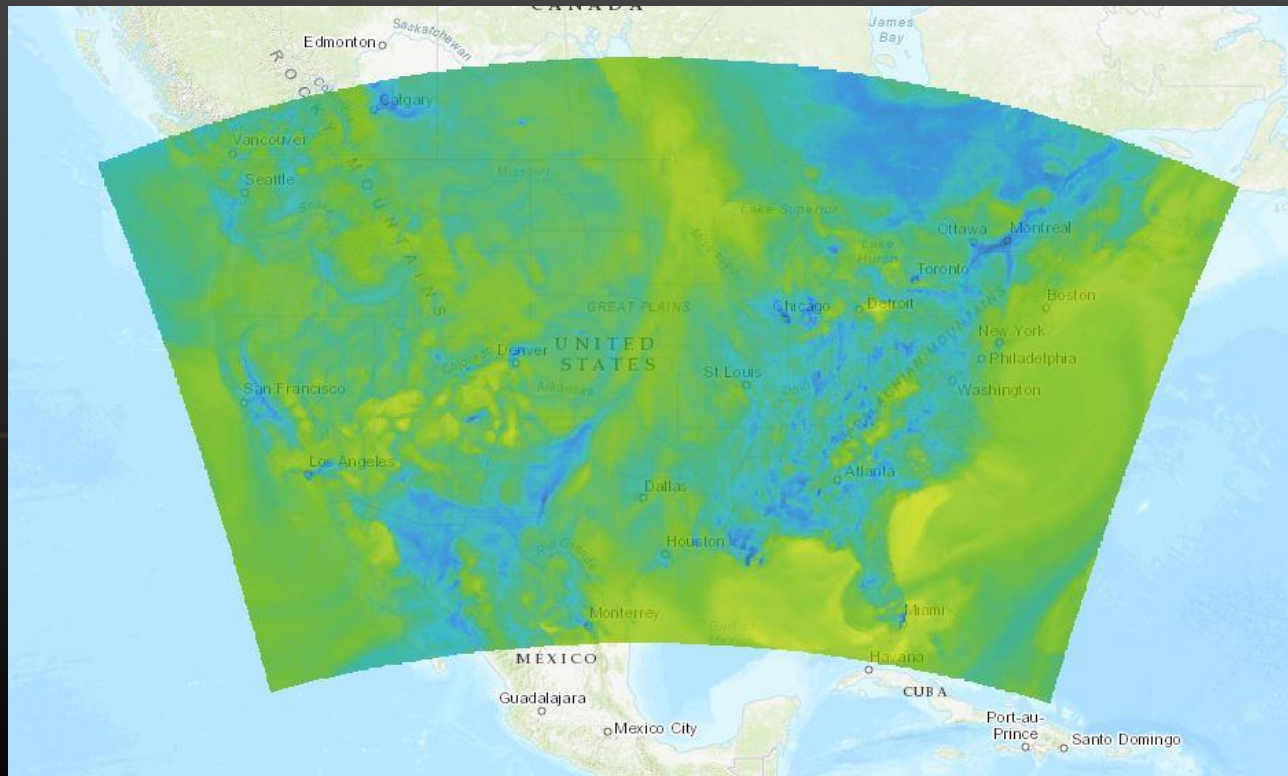# Air Quality Web Services

Don Rinker – NOAA/NWS/DISS
Air Quality Forecaster Focus Group Workshop
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IDP GIS Overview

- IDP GIS objectives & goals
  - increasing the interoperability, reliability and support of weather and environmental data in geospatial formats.
  - contribute to creating a Weather Ready Nation by providing easily integrated data to emergency managers, partners, and other members of the weather enterprise

- Advantage of using Web Service
  - Data is readily available
  - Ability to access and display in a variety of ways

NWS

- AHPS River Gauges
- Flood Outlook Product
- CPC Weather Hazards
- CPC Temperature and Precipitation Outlook
- CPC Drought Outlook
- WPC QPF
- RFC's 24-hour QPEs
- RFC's QPF
- Watches/Warnings and Advisories
- Weather Features
- Radar (1x1 km Base Reflectivity)
- Hurricane Tracks/wind/surge
- SPC Convective Outlooks
- NDFD Temperatures
- NOHRSC snow depth/snow water equivalent
- **Air Quailty**

NOAA

- Environmental Sensitivity Index (ESI) Services
- Essential Fish Habitat Services
- NOAA Shoreline
- NOAA Estuarine Bathymetry
- Marine Protected Areas (MPA) services
- Biogeography services
- Biomapper services

Current Air Quality Web Services

Dust

- Surface Dust
- Vertical Dust Integration

Smoke

- Surface Smoke
- Vertical Dust Integration

Ozone

- 1 Hour Average Ozone Concentration
- Daily Maximum 1 Hour Average Ozone Concentration
- 8 Hour Average Ozone Concentration
- Daily Maximum 8 Hour Average Ozone Concentration

Consumable Services

https://idpgis.ncep.noaa.gov/

ArcGIS REST Services Directory

Home > services

JSON | SOAP

Folder: /

Current Version: 10.22

View Footprints In: ArcGIS.com Map

Folders:

- NMFS
- NOAA
- NOS
- NOS_Biogeo_Biomapper
- NOS_ESI
- NOS_Observations
- NWS
- NWS_Climate_Outlooks
- NWS_Forecasts_Guidance_Warnings
- NWS_Observations
- Utilities

Services:

None

Supported Interfaces: REST SOAP Sitemap Geo Sitemap

- Challenges
  - Updating and ingesting data
  - Handling the attribute of time
  - Labeling and symbology
  - Data Discovery
  - Feedback loop between IDP GIS team and customers

Current Air Quality Web Service Pages

https://idpgis.ncep.noaa.gov

https://idpgisqa.bldr.ncep.noaa.gov

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