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PNSWSH

Service Change Notice 19-50
National Weather Service Headquarters Silver Spring MD
655 AM EDT Wed Jun 19 2019

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
 -NOAAPort
 Other NWS Partners, Users and Employees

From: Ben Kyger, Director
 NCEP Central Operations

Subject: New Services and Updates to the NWS IDP GIS: Effective June 24, 2019

Effective on or about Monday, June 24, 2019, beginning at 1400 Coordinated Universal Time (UTC), the National Centers for Environmental Prediction (NCEP) Central Operations (NCO), in coordination with NOAA/NWS Office of Dissemination (ODIS), will upgrade the Integrated Dissemination Program (IDP) Geographic Information System (GIS) Services to version 2.3.

In 2014, NWS stood up a new project within the Integrated Dissemination Program (IDP) to move GIS web services from a research/proof-of-concept posture into fully operational status. The goal of the project was to stand-up GIS systems, established standards, and allow for consistent dissemination formats and protocols across several NOAA datasets and products.

Two GIS stacks have been stood-up. One stack runs Environmental Systems Research Institute (ESRI) ArcGIS server and the other stack runs Boundless OpenGeo Server. Both stacks aim to disseminate GIS services using standards outlined by the Open Geospatial Consortium (OGC). GIS is served out of the NOAA operational center with 24/7 support and is geographically diverse with two separate locations to enhance availability.

IDP GIS will provide users with access to the new products as web mapping services and has fixed some existing service:

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

Major component changes include:

(1) New Products/Services

All output can be found on the IDP GIS Web Services:

<https://idpgis.ncep.noaa.gov/arcgis/rest/services/>

- Added 24- and 168-hour forecasted river stages from Advanced Hydrologic Prediction Service (AHPS)

Path: NWS_Observations/ahps_riv_gauges/MapServer

- Added 6-hour intervals of Quantitative Precipitation Forecasts (QPF) data

Path: NWS_Forecasts_Guidance_Warnings/wpc_qpf/MapServer

- Day 1-8 Fire Weather Outlook from Storm Prediction Center (SPC)

Path: NWS_Forecasts_Guidance_Warnings/SPC_firewx/MapServer

- Day 1-3 Snow and Ice Accumulation from Weather Prediction Center (WPC)

Path: NWS_Forecasts_Guidance_Warnings/wpc_prob_winter_precip/MapServer

- Air Quality from National Digital Guidance Database (NDGD)

a) Air Quality Average Particulate Matter hourly

Path: NWS_Forecasts_Guidance_Warnings/ndgd_apm25_hr01/ImageServer

b) Air Quality Average Particulate Matter by 24 hours

Path: NWS_Forecasts_Guidance_Warnings/ndgd_apm25_hr24/ImageServer

c) Air Quality Average Particulate Matter hourly bias Corrected

Path: NWS_Forecasts_Guidance_Warnings/ndgd_apm25_hr01_bc/ImageServer

d) Air Quality Average Particulate Matter by 24 hours bias Corrected

Path: NWS_Forecasts_Guidance_Warnings/ndgd_apm25_hr24_bc/ImageServer

e) Air Quality Maximum Particulate Matter by hour

Path: NWS_Forecasts_Guidance_Warnings/ndgd_mpm25_hr01/ImageServer

f) Air Quality Maximum Particulate Matter by hour bias Corrected

Path: NWS_Forecasts_Guidance_Warnings/ndgd_mpm25_hr01_bc/ImageServer

- California Inter-Agency Emergency Command Center (ECCs) and National Forecast Communication Centers in California (ECCDA) base maps

Path: NWS/nws_eccda/MapServer

- NWS Reference Maps from the Advanced Weather Interactive Processing System (AWIPS) for NWS Borders, Marine Weather Forecasts and Weather Zone Forecasts

Path: NWS/nws_reference_map/MapServer

(2) Updates to the following existing services:

- Updates to Watch/Warning/Advisory (WWA) service:

Path: NWS_Forecasts_Guidance_Warnings/watch_warn_adv/MapServer

a) Added support for Web Map Service (WMS) with Coordinate Reference System (CRS) 3857.

b) Symbolology level display change.

c) Fix Dust Storm Warning Symbolology Spelling.

d) Updated to use Common Alerting Protocol (CAP) Version 1.2 feed.

- Updated symbology and metadata for Climate Prediction Center (CPC) services.

Path: NWS_Climate_Outlooks

- Fixed a broken WMS hyperlink for ndgd_ozone_8hr_avg_time service

Path: NWS_Forecasts_Guidance_Warnings/ndgd_ozone_8hr_avg_time/ImageServer

- Updated the geodatabase for 2019 data from NOAA National Marine Fisheries Service (NMFS) Web services.

For any questions about the GIS content, please contact:

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For questions about the support of the Web Services, contact:

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National Service Change Notices are online at:

<https://www.weather.gov/notification/archive>

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