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Service Change Notice 22-56
National Weather Service Headquarters Silver Spring MD
1020 AM EDT Tue Jun 21 2022

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From: Andrea Hardy, Chief
 Weather Information Distribution Services Branch

Subject: New and Existing NWS On-premise GIS Web Services Offering Hosted on the AWS Cloud Will be Operationally Supported: Effective on or about June 21, 2022

On or about Tuesday, June 21, 2022, new and existing NWS web-services hosted on the Amazon Web Services (AWS) public cloud (<https://www.weather.gov/gis/cloudgiswebservices>) will be operationally supported Monday through Friday, 7:00am to 5:00pm Eastern Time.

The Geographic Information Service (GIS) web services currently available at <https://idpgis.ncep.noaa.gov> will continue to be available from this location. The public cloud hosted services are an additional or parallel offering of these services.

The technical functionality is the same between two systems, but the organizational presentation "look and feel" are different. GIS web service users may begin to use the cloud-hosted services by adding new or updating calls to their applications. The specific changes users will need to make depend on the type of protocol or endpoints utilized.

The mapping of on-premise services to the AWS cloud web services can be found here:

[https://www.weather.gov/media/notification/pdf2/on-premise mapping to aws cloud gis services links.pdf](https://www.weather.gov/media/notification/pdf2/on-premise%20mapping%20to%20aws%20cloud%20gis%20services%20links.pdf)

The services currently hosted on-premise have been operational since March 2016. As technology has evolved, the NWS has recognized that some information systems are well suited for hosting in the public cloud. The on-premise GIS services were identified as an excellent candidate to be hosted in the public cloud. This project is NWS' first step to providing GIS services in the public cloud.

List of new services available only in the public clouds are below:

Winter Storm Severity Index (WSSI) from the Weather Prediction Center (WPC):

https://mapservices.weather.noaa.gov/vector/rest/services/outlooks/wpc_wssi/MapServer

Long Range Flood Outlook:

https://mapservices.weather.noaa.gov/vector/rest/services/outlooks/long_range_flood_outlook/MapServer

NWS Local Storm Reports:

https://mapservices.weather.noaa.gov/vector/rest/services/obs/nws_local_storm_reports/MapServer

NWS Fire Weather SPOT:

https://mapservices.weather.noaa.gov/vector/rest/services/fire_weather/nws_fire_weather_spot/MapServer

Land Analysis from National Water Model:

https://mapservices.weather.noaa.gov/raster/rest/services/obs/NWM_Land_Analysis/MapServer

Flood Inundation Maps:

https://mapservices.weather.noaa.gov/static/rest/services/NWS_FIM/

WPC Precipitation Hazards Day 4 and Day 5 (Experimental):

https://mapservices.weather.noaa.gov/experimental/rest/services/wpc_precip_hazards/MapServer

Flood Hazards Outlook (Experimental):

https://mapservices.weather.noaa.gov/experimental/rest/services/owp_fho/MapServer

Link to the Cloud GIS Webpage:

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

Link to the on-premise GIS Webpage:

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

If you have questions or comments, please contact:

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National Service Change Notices are online at:

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

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