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From: Andrea Hardy
 Chief, Weather Information Distribution Services Branch

Subject: New and Existing NWS On-Premise GIS Web Services Hosted on the
AWS Public Cloud on or about January 20, 2022

NWS will provide users with access to new (see below for list of new services) and existing Geographic Information Systems (GIS) web services running on Amazon Web Services (AWS) public cloud (<https://www.weather.gov/gis/cloudgiswebservices>) on or about January 20, 2022. This is in preparation for the transition of our GIS services from the on premise infrastructure to the cloud infrastructure. The GIS web services currently available at <https://idpgis.ncep.noaa.gov> will continue to be available from this location until the new system is fully transitioned to the cloud system. The public cloud hosted services will be an additional or parallel offering of these services.

The technical functionality is the same between two systems but the organizational presentation "look and feel" will be 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 will depend on the type of protocol or endpoints utilized. The cloud hosted services will initially be operationally supported Monday - Friday 7:00am to 5:00pm Eastern Time.

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. GIS services are one such project that can be more efficient if hosted in the public cloud. This project is our 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 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/

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>

For more information, please contact:

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National Public Information Statements are online at:

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

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