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Public Information Statement 22-04
National Weather Service Headquarters Silver Spring MD
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To:      Subscribers:
- NOAA Weather Wire Service
- Emergency Managers Weather Information Network
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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/cloudgiswebservice) 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

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_Alysis/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:

Nipa Parikh
Cloud GIS Project Manager
NWS/DISS
Silver Spring, MD
Email: idp.gis.support@noaa.gov

National Public Information Statements are online at:
https://www.weather.gov/notification/

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