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Service Change Notice 17-21 Updated
NOAA's National Ocean Service Headquarters Silver Spring MD
Relayed by National Weather Service Headquarters Silver Spring MD
1240 PM EDT Wed Apr 26 2017

To: Subscribers:
 -NOAA Weather Wire Service
 -Emergency Managers Weather Information Network
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From: Edward Myers
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Subject: Updated: Modification of NOAA's nowCOAST Map Services to Provide Maps of NOAA/NESDIS Global Mosaic of Geostationary Satellite Imagery and Mosaic of Shortwave Infrared Imagery from NOAA GOES EAST and WEST: Effective on or about May 2, 2017

Updated to change effective date to on or about May 2, 2017, and remove Meteosat-7 from list of weather satellites whose imagery is used in the generation of Global Mosaic of Geostationary Satellite Imagery (GMGSI).

Users of the existing map service should update their applications to use the new URL after the new service becomes available. The specific changes users need to make depend on the type of protocol or endpoints utilized.

Effective May 2, 2017, NOAA's nowCOAST (trademarked) (<https://nowcoast.noaa.gov>) will provide users with access to NOAA/National Environmental Satellite, Data and Information Service's (NESDIS's) Global Mosaic of Geostationary Satellite Imagery (GMGSI) and GOES shortwave infrared imagery via nowCOAST's time-enabled web mapping services. The new imagery will be available on nowCOAST's map services via two protocols: GeoServices Representational State Transfer (REST) map services and Open Geospatial Consortium (OGC) compliant Web Map Services (WMS).

To properly reflect the addition of GMGSI to nowCOAST, the name of the nowCOAST map service will change from `sat_meteo_imagery_goes_time` to `sat_meteo_imagery_time`. Users of the existing map service should update their applications to use the new URL after May 2, 2017. The specific changes users need to make depend on the type of protocol or endpoints used.

Users of REST Map Service Endpoints:

The existing REST Map Service endpoint at the following URL:

https://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/sat_meteo_imagery_goes_time/MapServer

After May 2, 2017, the link will be replaced with:

https://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/sat_meteo_imagery_time/MapServer

An HTTP Redirect will be implemented to reduce the immediate impact of the changes to certain users of REST map service endpoints; however, the change is expected to break client applications that do not support HTTP Redirect usage. All users are encouraged to switch to the new map service endpoint as soon as possible following implementation. Users will be able to continue using their existing layer identifiers to access the GOES visible, water vapor, and longwave infrared imagery, but will need to make further modifications to their applications if they wish to display the new GOES shortwave infrared or GMGSI imagery layers.

Users of WMS Endpoints:

The existing WMS endpoint at the following URL:

https://nowcoast.noaa.gov/arcgis/services/nowcoast/sat_meteo_imagery_goes_time/MapServer/WMServer

will be replaced, after May 2, 2017, with:

https://nowcoast.noaa.gov/arcgis/services/nowcoast/sat_meteo_imagery_time/MapServer/WMServer

This change will cause disruption of service to any client applications still connecting to the discontinued WMS endpoint after implementation. Users of WMS endpoints will need to update their applications according to the updated capabilities Extensible Markup Language (XML) file obtained via a GetCapabilities request to continue displaying GOES imagery or to add the new imagery if desired.

Additional information for users of WMS and REST map service endpoint will be found at:

<https://nowcoast.noaa.gov/help/#!section=wms-layer-ids> and <https://nowcoast.noaa.gov/help/#!section=rest-layers-ids> respectively.

The above nowCOAST URLs will not contain information about the new imagery until the new version is implemented.

Detailed Information about the new nowCOAST map service will be found at:

https://nowcoast.noaa.gov/arcgis/rest/services/nowcoast/sat_meteo_imagery_time/MapServer

This URL will not be accessible until the new version is implemented.

The GMGSI includes visible, shortwave infrared, and longwave infrared imagery. The addition of the GMGSI will provide, for the first time on nowCOAST, weather satellite coverage for U.S. territories west of Hawaii. In addition, a mosaic of shortwave infrared imagery from GOES WEST and

EAST will also now be available. The shortwave infrared imagery provides additional cloud information as well as fog detection at night. The GMGSI has a spatial resolution of 8-km and is composed of imagery from U.S. GOES, Meteosat-10, and Himawari-8 weather satellites. GMGSI will be updated approximately every three hours in the nowCOAST map service and the mosaic of GOES West and East shortwave infrared imagery will be updated every 30 minutes to ensure the latest imagery are available to users as soon as it becomes available from NESDIS. Additional information about the NESDIS GMGSI can be found at:

<http://www.ospo.noaa.gov/Products/imagery/>

nowCOAST provides coastal intelligence on present and future environmental conditions for coastal and maritime users by integrating data and information from across NOAA and other federal and state agencies. nowCOAST was developed by NOAA/National Ocean Service's Coast Survey Development Laboratory, and is hosted on NOAA's Integrated Dissemination Program (IDP) infrastructure where it is monitored 24 x 7 by NWS/National Centers for Environmental Prediction (NCEP) Central Operations.

For questions concerning nowCOAST, please contact:

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For questions concerning NESDIS GMGSI, please contact:

NESDIS Office of Satellite and Product Operations
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Email: spsd.userservices@noaa.gov

National Service Change Notices are online at:

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

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