NOUS41 KWBC 182048 PNSWSH

Service Change Notice 18-66 National Weather Service Headquarters Silver Spring MD 448 PM EDT Mon Jun 18 2018

To: Subscribers:

-NOAA Weather Wire Service

-Emergency Managers Weather Information Network

-NOAAPort

Other NWS Partners, Users and Employees

From: Joseph Pica

Director, NWS Office of Observations

Subject: Transition of NOAAPort Geostationary Operational Environmental Satellite-16 (GOES-16) Imagery to Fixed Grid: Effective June 19, 2018

On or after Tuesday, June 19, 2018, no earlier than 1500 Coordinated Universal Time (UTC), NWS will transition GOES-16 Advanced Baseline Imager (ABI) Imagery on the Satellite Broadcast Network (SBN, also known as NOAAPort) to a mapping referred to as the ABI Fixed Grid. This ABI imagery is sometimes referred to as Sectorized Cloud and Moisture Imagery (SCMI). The ABI Fixed Grid is a map projection based on the viewing perspective of the idealized location of a satellite in geostationary orbit. GOES-16 ABI SCMI on the Fixed Grid map projection was tested and evaluated by NWS (including SBN broadcast) during October and November 2017 as described in Service Change Notice (SCN) 17-95:

https://www.weather.gov/media/notification/pdfs/scn17-95goes16test.pdf

and more recently on or about June 14-15, 2018, as described in Public Information Statement (PNS) 18-17:

https://www.weather.gov/media/notification/pdfs/pns18-17goes16 test.pdf

This change affects the SCMI that is disseminated on the SBN's GOES-R East channel (PID 108).

The World Meteorological Organization (WMO) headers of the GOES-16 SCMI being transitioned to the fixed grid are as follows, with references to the 11-character template:

Template: T1 T2 A1 A2 ii CCCC

T1 = T

T2 = I

A1 = R for large-scale (non-mesoscale) sectors

= S for mesoscale sectors

A2: Where A1=R, for large-scale (non-mesoscale) sectors, A2 corresponds to geographical sectors as follows:

= E for the East CONUS sector

= P for the Puerto Rico Regional sector (Note that Full Disk imagery, whose A1=R and whose A2=S, is already disseminated across the SBN in the fixed-grid projection, so it will be unaffected by this transition.)

Where A1=S, for mesoscale sectors, A2 values corresponds to geographical latitude/longitude areas as follows: = A for 45 degrees (deg.) N <= Latitude (Lat.) < 60 deg. N and 120 deg. W < Longitude (Long.) <= 135 deg. W = B for 45 deg. N <= Lat. < 60 deg. N and 105 deg. W < Long. <= 120 deg. W = C for 45 deg. N <= Lat. < 60 deg. N and 90 deg. W < Long. <= 105 deg. W = D for 45 deg. N <= Lat. < 60 deg. N and 75 deg. W < Long. <= 90 deg. W = E for 45 deg. N <= Lat. < 60 deg. N and 60 deg. W < Long. <= 75 deg. W = F for 30 deg. N <= Lat. < 45 deg. N and 120 deg. W < Long. <= 135 deg. W = G for 30 deg. N <= Lat. < 45 deg. N and 105 deg. W < Long. <= 120 deg. W = H for 30 deg. N <= Lat. < 45 deg. N and 90 deg. W < Long. <= 105 deg. W = I for 30 deg. N <= Lat. < 45 deg. N and 75 deg. W < Long. <= 90 deg. W = J for 30 deg. N <= Lat. < 45 deg. N and 60 deg. W < Long. <= 75 deg. W = K for 15 deg. N <= Lat. < 30 deg. N and 120 deg. W < Long. <= 135 deg. W = L for 15 deg. N <= Lat. < 30 deg. N and 105 deg. W < Long. <= 120 deg. W = M for 15 deg. N <= Lat. < 30 deg. N and 90 deg. W < Long. <= 105 deg. W = N for 15 deg. N <= Lat. < 30 deg. N and 75 deg. W < Long. <= 90 deg. W = 0 for 15 deg. N <= Lat. < 30 deg. N and 60 deg. W < Long. <= 75 deg. W = P for 0 deg. N <= Lat. < 15 deg. N and 90 deg. W < Long. <= 135 deg. W = Q for 0 deg. N <= Lat. < 15 deg. N and 60 deg. W < Long. <= 90 deg. W = R for 45 deg. N <= Lat. < 90 deg. N and 135 deg. W < Long. <= 180 deg. W = S for 0 deg. N <= Lat. < 45 deg. N and 135 deg. W < Long. <= 180 deg. W = T for 60 deg. N <= Lat. < 90 deg. N and 90 deg. E < Long. <= 135 deg. W = U for 0 deg. N <= Lat. < 60 deg. N and 90 deg. E < Long. <= 60 deg. W = V for 0 deg. N <= Lat. < 90 deg. N and 180 deg. W < Long. <= 90 deg. E = W and X are reserved for future use = Y for 90 deg. S <= Lat. < 0 deg. S and 105 deg. W < Long. <= 90 deg. E

If/where mesoscale boxes T, U and Z extend across the prime meridian (0 deg. longitude) and boxes V and Y extend across the International Dateline (180 deg. longitude). Sector boundaries of 0 deg. N or 0 deg. S refer to the equator. The "<=" symbols refer to "less than or equal to." Note that some of the regions above are out of range from GOES-16 at its current location, but these regions could be within range of future GOES-R series satellites, such as GOES-17.

= Z for 90 deg. S <= Lat. < 0 deg. S and 90 deg. E < Long. <= 105 deg. W

ii = ABI channel number (01 - 16); between the ii and CCCC is a space

CCCC = KNES (signifies products originated by the National Environmental Satellite, Data and Information Service (NESDIS)). The file format for these products will remain netCDF4.

For information about the ABI Fixed Grid, please refer to the GOES-R Product Definition and Users' Guide:

http://www.goes-r.gov/users/docs/PUG-L1b-vol3.pdf

Critical weather or other factors could affect the timing of this transition.

For questions pertaining to this transition or upcoming plans for the addition of GOES-R Series products onto NOAAPort, please contact:

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Email: brian.gockel@noaa.gov

and

AWIPS Network Control Facility (NCF) Help Desk NOAA/NWS Office of Central Processing Silver Spring, MD

Email: nws.ncf.supervisors@noaa.gov

For questions regarding the scientific or technical content of the NOAAPort-disseminated GOES-16 products, please contact:

Environmental Satellite Processing Center (ESPC) Help Desk

Suitland, MD

Phone: 301-817-3880

Email: espcoperations@noaa.gov

National Service Change Notices are online at:

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

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