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Service Change Notice 23-93 Updated
National Weather Service Headquarters Silver Spring MD
1250 PM EDT Fri Oct 20 2023

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From: Ajay Mehta
Director, NWS Office of Observations

Subject: Updated: GOES-East/West Cloud Cover Layers to be added to the Satellite Broadcast Network on or after October 23, 2023

Updated to reflect that the contiguous U.S. (CONUS) product will be provided every five minutes instead of hourly. The file counts and data volumes are adjusted accordingly.

On or after October 23, 2023, a new Cloud Cover Layers product, derived from Advanced Baseline Imager observations by the Geostationary Orbiting Environmental Satellite (GOES)-East and GOES-West satellites, will be added to the Satellite Broadcast Network (SBN).

These data will be broadcast via the SBN EXP channel (Port 1208, PID 106), for three different sectors, with the following World Meteorological Organization (WMO) headers, ground resolution, cadence and data volumes:

WMO Header	Satellite	Sector	size	Pixel /hour	files GB/day
IXTC99 KNES	GOES-East	Full Disk	10km	1	0.05
''	''	E. CONUS	10km	12	0.13
''	''	Mesoscale	4km	24	0.13
IXTC89 KNES	GOES-West	Full Disk	10km	1	0.05
''	''	W. CONUS	10km	12	0.13
''	''	Mesoscale	4km	24	0.13

The Cloud Cover Layers product estimates the following parameters at each pixel (note AMSL = Above Mean Sea Level):

Parameter	Range
Total Cloud Fraction	0.0 - 1.0 (scaled integers)
Cloud Fraction %: Surface to 5 kft AMSL	0 - 100 (integers)
Cloud Fraction %: 5-10 kft AMSL	0 - 100 (integers)
Cloud Fraction %: 10-18 kft AMSL	0 - 100 (integers)
Cloud Fraction %: 18-24 kft AMSL	0 - 100 (integers)
Cloud Fraction %: > 24 kft AMSL	0 - 100 (integers)
Binary Cloud Layer Flags	00000 - 11111 (5 bits)

The Cloud Cover Layers product is encoded in a NetCDF format. NWS Advanced Weather Interactive Processing System (AWIPS) sites will receive configurations for handling and displaying the Cloud Cover Layers product in November 2023. These configurations will be proposed for inclusion in the AWIPS baseline at a later date.

Before (and after) they are activated on SBN, GOES-East and -West Cloud Cover Layer NetCDF files may also be obtained via NOAA Open Data Dissemination (NODD) at the following URLs:

GOES-East: https://noaa-goes16.s3.amazonaws.com/index.html
GOES-West: https://noaa-goes18.s3.amazonaws.com/index.html

On each of these pages, Cloud Cover Layers data are accessible via the following links:

ABI-L2-CCLF: Full Disk
ABI-L2-CCLC: CONUS sectors (East or West)
ABI-L2-CCLM: Mesoscale sectors

Additional details on the Cloud Cover Layers product are available on the NOAA Virtual Laboratory (vLab) at:

https://vlab.noaa.gov/web/towr-s/goes-ccl

Critical weather or other factors may affect the timing of this change.

For questions pertaining to these changes, please contact:

NOAA/NWS Office of Observations
Silver Spring, MD
Email: nws-obs-satellites@noaa.gov

or

AWIPS Network Control Facility (NCF) Help Desk
NOAA/NWS Office of Central Processing
Silver Spring, MD
Phone: 888-808-8624

For questions regarding the content or distribution of the products listed here, please contact:

Stephen Superczynski
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National Service Change Notices are online at:

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

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