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PNSWSH

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
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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
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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:

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Greenbelt, MD

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National Service Change Notices are online at:

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

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