Service Change Notice 23-93
National Weather Service Headquarters Silver Spring MD
400 PM EDT Wed Sep 20 2023

To: Subscribers:
- NOAA Weather Wire Service
- Emergency Managers Weather Information Network
- NOAAPort
- Other NWS Partners and NWS Employees

From: Ajay Mehta
Director, NWS Office of Observations

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

On or near October 23, 2023, a new Cloud Cover Layers product, derived from Advanced Baseline Imager observations by the 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 WMO headers, file counts, and data volumes:

<table>
<thead>
<tr>
<th>WMO header</th>
<th>Satellite</th>
<th>Sector</th>
<th>files/day</th>
<th>GB/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>IXTC99</td>
<td>GOES-East</td>
<td>Full Disk</td>
<td>24</td>
<td>0.05</td>
</tr>
<tr>
<td>' '</td>
<td>' '</td>
<td>E. CONUS</td>
<td>24</td>
<td>0.01</td>
</tr>
<tr>
<td>' '</td>
<td>' '</td>
<td>Mesoscale</td>
<td>576</td>
<td>0.13</td>
</tr>
<tr>
<td>IXTC89</td>
<td>GOES-West</td>
<td>Full Disk</td>
<td>24</td>
<td>0.05</td>
</tr>
<tr>
<td>' '</td>
<td>' '</td>
<td>W. CONUS</td>
<td>24</td>
<td>0.01</td>
</tr>
<tr>
<td>' '</td>
<td>' '</td>
<td>Mesoscale</td>
<td>576</td>
<td>0.13</td>
</tr>
</tbody>
</table>

The Cloud Cover Layers product is computed hourly, at a nominal (nadir) resolution of 10km, for the Full Disk and the CONUS sectors; and every 5 minutes, at 4km resolution, for each Mesoscale sector. For each grid cell it estimates the following parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cloud Fraction</td>
<td>0.0 - 1.0 (scaled integers)</td>
</tr>
<tr>
<td>Cloud Fraction %: Surface to 5 kft AMSL</td>
<td>0 - 100 (integers)</td>
</tr>
<tr>
<td>Cloud Fraction %: 5-10 kft AMSL</td>
<td>0 - 100 (integers)</td>
</tr>
<tr>
<td>Cloud Fraction %: 10-18 kft AMSL</td>
<td>0 - 100 (integers)</td>
</tr>
<tr>
<td>Cloud Fraction %: 18-24 kft AMSL</td>
<td>0 - 100 (integers)</td>
</tr>
<tr>
<td>Cloud Fraction %: &gt; 24 kft AMSL</td>
<td>0 - 100 (integers)</td>
</tr>
<tr>
<td>Binary Cloud Layer Flags</td>
<td>00000 - 11111 (5 bits)</td>
</tr>
</tbody>
</table>

(AMSL = Above Mean Sea Level)
The Cloud Cover Layers product is encoded in a NetCDF format. NWS AWIPS sites will receive configurations for handling and displaying the Cloud Cover Layers product in October 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), e.g., at the following URLs:

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 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
  GOES-R User Services Coordinator
  Greenbelt, MD
  Email: stephen.superczynski@noaa.gov

National Service Change Notices are online at:

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

NNNN