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From: Ajay Mehta
Director, NWS Office of Observations

Subject: New Stations Added to GOES-R ASOS Satellite Cloud Products as of August 11, 2023

As of August 11, 2023, the GOES-R Automated Surface Observing System (ASOS) Satellite Cloud Products (ASOS SCPs) are harmonized with the AWIPS National Datasets Maintenance (NDM) list of Meteorological Aerodrome Report (METAR) stations.

ASOS SCPs supplement surface weather observations with cloud-cover estimates inferred from observations by the Advanced Baseline Imager (ABI) aboard the GOES-East or GOES-West satellites.

NDM provides a well-defined process for maintaining the set of stations used for ASOS SCPs. Members of the NOAA community may request and track changes to station identifiers, names, locations, or other details, via a repository and ticketing system on the NOAA VLab at https://vlab.noaa.gov/redmine/projects/awips-ndm/issues. Henceforth, the station list used for ASOS SCPs will be refreshed periodically from the NDM repository.

As an outcome of this change, the ASOS SCPs now include cloud-cover reports for 1,233 new stations or station identifiers. Below is a summary of these changes:

<table>
<thead>
<tr>
<th>Previously</th>
<th>Now</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unique station identifiers:</td>
<td>2,034</td>
</tr>
<tr>
<td>Hourly Cloud-Cover reports:</td>
<td>~4,000</td>
</tr>
<tr>
<td>Hourly data volume:</td>
<td>161 KB</td>
</tr>
</tbody>
</table>

This change has not removed any stations or station identifiers from the list used for ASOS SCPs. Stations whose identifier has changed appear under both their previous and current identifiers. A future update to the ASOS SCPs (with suitable advance notice to users) may remove obsolete station identifiers and stations that are no longer in service.
The ASOS SCPs are broadcast on the Satellite Broadcast Network (SBN) and the NWS Telecommunications Gateway (NWSTG) using the following WMO headers and AWIPS IDs:

<table>
<thead>
<tr>
<th>WMO Header</th>
<th>AWIPS ID</th>
<th>Satellite</th>
<th>WMO Header</th>
<th>AWIPS ID</th>
<th>Satellite</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCUS40 KNES</td>
<td>SCPER1</td>
<td>GOES-East</td>
<td>TCUS50 KNES</td>
<td>SCPER2</td>
<td>GOES-West</td>
</tr>
<tr>
<td>TCUS41 KNES</td>
<td>SCPCR1</td>
<td>GOES-East</td>
<td>TCUS51 KNES</td>
<td>SCPCR2</td>
<td>GOES-West</td>
</tr>
<tr>
<td>TCUS43 KNES</td>
<td>SCPWR1</td>
<td>GOES-East</td>
<td>TCUS53 KNES</td>
<td>SCPWR2</td>
<td>GOES-West</td>
</tr>
<tr>
<td>TCUS42 KNES</td>
<td>SCPSR1</td>
<td>GOES-East</td>
<td>TCUS52 KNES</td>
<td>SCPSR2</td>
<td>GOES-West</td>
</tr>
<tr>
<td>TCUS62 KNES</td>
<td>SCPSR3</td>
<td>GOES-East</td>
<td>TCUS54 KNES</td>
<td>SCPPR2</td>
<td>GOES-West</td>
</tr>
</tbody>
</table>

ASOS SCPs report cloud cover for stations in the following states, provinces, territories, and nations:

- SCPER1,2: CT; DE; MA; MD; ME; NC; NH; NJ; NY; OH; PA; RI; SC; VA; VT; WV
- SCPCR1,2: CO; IA; IL; IN; KS; KY; MI; MN; MO; ND; NE; SD; WI; WY
- SCPWR1,2: Alberta, Canada; AZ; CA; ID; MT; NV; OR; UT; WA
- SCPSR1,2: AL; AR; FL (mainland); GA; LA; MS; NM; OK; TN; TX
- SCPSR3: FL (Keys); Puerto Rico; U.S. Virgin Islands; Cuba
- SCPPR2: Alaska; Hawaii; U.S. Minor Outlying Islands; Kiribati

Additional details on the ASOS SCPs, including the recently-added station identifiers, may be found at https://vlab.noaa.gov/web/towr-s/asos-scp.

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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