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PNSWSH

Service Change Notice 25-30
National Weather Service Headquarters Silver Spring MD
4:30 PM EDT Tue Mar 18 2025

To: Subscribers:
           -NOAA Weather Wire Service
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           -NOAAPort
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From: William Burnett, PhD
           Acting Director, NWS Office of Observations

Subject: Operational transition of the GOES-19 satellite to become
GOES-East on April 4, 2025.

On or after April 4, 2025, at approximately 15:10 UTC, GOES-19, the
newest satellite in the Geostationary Operational Environmental
Satellite (GOES) series, will become the operational GOES-East
satellite, replacing GOES-16.

As of that date, all data products from GOES-19 will permanently
replace those from GOES-16 on the Satellite Broadcast Network (SBN).
This will include:

   1. Sectorized Cloud and Moisture Imagery (SCMI),
   2. Level-2 (L2) derived products, and
   3. Other products.

1. GOES-19 SCMI will, like GOES-16 SCMI, be disseminated on the "GRE"
channel of SBN using the following WMO headers for GOES-East:

        TIRS{01..16} KNES for Full Disk imagery;
        TIRE{01..16} KNES for East CONUS imagery;
        TIRP{01..10,13,15} KNES for Puerto Rico Regional Sector
imagery;
        TIS[A-Z]{01..16} KNES for Meso sector imagery.

Note: Although GOES-19 SCMI will use the same WMO headers as GOES-16
SCMI, users can still determine the satellite source via the
"satellite_id" global attribute within each file.

2. GOES-19 L2 Derived Products on the SBN, like those from GOES-16,
will use the GOES-East WMO headers and SBN channels indicated below:

WMO Header	Product name	*Sector	Files /day	GB /day	SBN channel
IXTA99 KNES	Aerosol Detection	F, C, M	816	0.54	EXP
IXTB99 KNES	Aerosol Optical Depth	F, C	348	3.60	EXP
IXTC99 KNES	Cloud Cover Layers	F, C, M	888	0.31	EXP

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IXTD99 KNES  Cloud Top Phase            F, C, M  2868  0.96   EXP
IXTE99 KNES  Fog & Low Stratus             C      216  1.00   GRE
IXTF99 KNES  Rain Rate /
              Quant. Precip. Estimate   F        132  0.22   EXP
IXTG99 KNES  Cloud Top Height           F, C, M  2868  0.53   EXP
IXTH99 KNES  Clear Sky Mask             F, C, M  2867  4.90   EXP
IXTI99 KNES  Cloud Top Temperature      F,    M  2652  3.88   EXP
IXTJ99 KNES  Fire/Hot Spot              F, C     432  0.42   EXP
IXTJ99 KNES  Fire/Hot Spot                    M  2879  0.37   GRE
IXTK99 KNES  Land Surface Temperature   F, C, M   90  0.05   EXP
IXTL99 KNES  Fractional Snow Cover      F         24  0.05   EXP
IXTM99 KNES  Sea Surface Temperature    F         24  0.83   EXP
IXTN99 KNES  Derived Stability Indices  F, C, M  2868  1.06   EXP
IXTO99 KNES  Total Precipitable Water   F, C, M  2868  0.42   EXP
IXTP99 KNES  Legacy Vertical Moisture
              Profiles (reduced levels)    C      48  0.48   EXP
IXTQ99 KNES  Legacy Vertical Temperature
              Profiles (reduced levels)    C      48  0.48   EXP
IXTR99 KNES  Ice Concentration & Extent F          8  0.07   EXP
IXTT99 KNES  Ice Age and Thickness      F          8  0.05   EXP
IXTU99 KNES  Derived Motion Winds          C      576  1.38   GRE
IXTU99 KNES  Derived Motion Winds             M  3456  0.87   EXP
IXTW01 KNES  Cloud Particle Size        F, C, M  2867  3.92   EXP
IXTX01 KNES  Cloud Top Pressure         F, C     348  0.25   EXP
IXTY01 KNES  Cloud Optical Depth        F, C     348  1.75   EXP
TIRS00 KNES  Tiled GLM Lightning        F      ~30000 2.40   GRE
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* F, C, and M denote the (GOES-East) Full Disk, CONUS, and Meso sectors, respectively.

Note: Although GOES-19 L2 products will use the same WMO headers as those from GOES-16, users can still determine the satellite source via the "platform_ID" global attribute within each file.

3. GOES-19 observations will also replace GOES-16 observations in the following products on SBN:

WMO Header	Product name	Region	Files /day	MB /day	SBN channel
TICF02 KNES	Global Mosaic of Geosta-tionary Sat. Imagery (VIS)	Global	8	54	OPT
TICF08 KNES	Global Mosaic of Geosta-tionary Sat. Imagery (WV)	Global	8	36	OPT
TICF14 KNES	Global Mosaic of Geosta-tionary Sat. Imagery (LWIR)	Global	8	54	OPT
TCUS50 KNES	ASOS Sat. Cloud Product	Eastern	24	0.4	NMC
TCUS51 KNES	ASOS Sat. Cloud Product	Central	24	0.7	NMC
TCUS52 KNES	ASOS Sat. Cloud Product	Southern	24	0.5	NMC
TCUS53 KNES	ASOS Sat. Cloud Product	Western	24	0.3	NMC
TCUS54 KNES	ASOS Sat. Cloud Product	Pacific	24	0.1	NMC
ZETA96 KNES	Global HydroEstimator: 6hr	CONUS	24	34	NMC
ZETA97 KNES	Global HydroEstimator: 3hr	CONUS	24	34	NMC
ZETA98 KNES	Global HydroEstimator: 1hr	CONUS	24	28	NMC
ZETA99 KNES	Global HydroEstimator: 15min	CONUS	99	113	NMC

These data products are further detailed in the following Service
Change Notices:

   SCN20-67 (Global Mosaic of Geostationary Satellite Imagery)
   SCN20-83 (GOES-17 (now GOES-18) ASOS Satellite Cloud Product)

Unlike SCMI and L2 products, the Global Mosaics, ASOS Satellite Cloud
Products, and Global HydroEstimators do not indicate within each file
which satellite observations they derive from.

Details on the GOES-19 Transition to Operations are available from the
GOES-R Program at https://www.goes-
r.gov/users/transitionToOperations19.html

Technical details on all of the above data products are available on
the NOAA VLab at https://vlab.noaa.gov/web/towr-s/dataset-guides

Critical weather or other factors may delay these changes on the SBN.

For questions pertaining to these changes, please contact:

NOAA/NWS Office of Observations
Silver Spring, MD 20910
Email: NWS-OBS-Satellites@noaa.gov

or

AWIPS Network Control Facility (NCF) Help Desk
NOAA/NWS Office of Central Processing
Silver Spring, MD 20910
Phone: 888-808-8624

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

GOES-R User Services Coordinator
Greenbelt, Maryland 20771
Email: SPSD.Userservices@noaa.gov

National Service Change Notices are online at:
https://www.weather.gov/notification/

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