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Service Change Notice 25-30 Updated
National Weather Service Headquarters Silver Spring MD
630 PM EDT Apr 03 2025

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From: William Burnett, PhD
Acting Director, NWS Office of Observations

Subject: Updated: Operational transition of the GOES-19 satellite to become GOES-East on or after April 7, 2025

Updated to reflect the operational transition is delayed from April 4, 2025, due to critical weather day.

On or after April 7, 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:

	Files	GB	SBN

WMO Header	Product name	*Sector	Files /day	MB /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
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

* 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 Geostationary Sat. Imagery (VIS)	Global	8	54	OPT
TICF08 KNES	Global Mosaic of Geostationary Sat. Imagery (WV)	Global	8	36	OPT
TICF14 KNES	Global Mosaic of Geostationary 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

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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
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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
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:

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

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

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