



GOES-R Series Products

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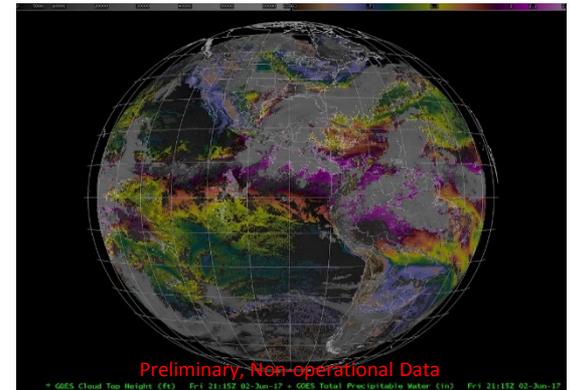
GOES-R Series Satellite Product Manager

Research to Operations Panel

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GOES-16 Future Capabilities *Planned* for Operations

GOES-16 Reformatted Products

- BUFR Derived Motion Winds (DMWs) - November 2017
- GSD2 Sea Surface Temperatures – November 2017
- BUFR All-Sky Radiances – May 2019

GOES-16 Future Capabilities: June 2018

- 5 Pathfinder Products: Aerosol Particle Size; Cloud Cover Layers; Sea and Lake Ice: Concentration; Sea and Lake Ice: Thickness; Sea and Lake Ice: Motion
- Low Cloud/Fog
- Legacy ASOS Satellite Cloud Products
- Surface Albedo – for surface reflectance only as the intermediate product for the baseline snow cover product. Surface Albedo will not be archived.

GOES-16 Blended Products

- Blended Sea Surface Temperatures – November 2017
- Upgrade Tropical Cyclone Wind Analysis – May 2019
- Blended Advanced Dvorak Technique – June 2019

Dates are subject to change



Mapping Legacy GOES Products to the GOES-R Series Products

- Currently mapping Legacy GOES products to GOES-R Series products to illustrate what will change in the GOES-R Series.
 - Mapping will serve as a tool for stakeholders to understand what is new, continued from Legacy GOES and what products will no longer be generated.
 - Data includes product name, format, dissemination, instrument, resolution, and refresh rate.
 - Analysis are continuing to quantify the number of products and the impact of discontinued products.

Note: There is no sounder on the GOES-R Series satellites. *The GOES-R Series Advanced Baseline Imager offers advanced data with expectations to match or exceed what was available from the legacy GOES sounder.*



Mapping Legacy GOES Sounder Products to the GOES-R Series Advanced Baseline Imager (ABI)

Product Name	GOES Legacy	GOES Legacy (Sensor)	GOES-16 NETCDF4
Layer Precipitable Water (MSPS)	GOES-13, GOES-15	Sounder	no matched products
ASOS Categorical Cloud Amount (Sounder)	GOES-13, GOES-15	Sounder	ASOS Cloud Product/Low Fog/Cloud Products from ABI
ASOS Categorical Cloud Height (Sounder)	GOES-13, GOES-15	Sounder	ASOS Cloud Product/Low Fog/Cloud Products from ABI
ASOS Cloud Top Height (Sounder)	GOES-13, GOES-15	Sounder	ASOS Cloud Product/Low Fog/Cloud Products from ABI
ASOS Cloud Top Pressure (Sounder)	GOES-13, GOES-15	Sounder	ASOS Cloud Product/Low Fog/Cloud Products from ABI
ASOS Effective Cloud Amount (Sounder)	GOES-13, GOES-15	Sounder	ASOS Cloud Product/Low Fog/Cloud Products from ABI
Cloud Top Temperature (GOES)	GOES-13, GOES-15	Sounder	(ABI) Cloud Top Temperature
Convective Area Potential Energy (GOES)	GOES-13, GOES-15	Sounder	(ABI) Derived Stability Indices
DPI Cloud Top Pressure	GOES-13, GOES-15	Sounder	(ABI) Cloud Top Pressure
DPI Lifted Index (Sounder)	GOES-13, GOES-15	Sounder	(ABI) Derived Stability Indices
Effective Cloud Amount (GOES)	GOES-13, GOES-15	Sounder	(ABI) Clear Sky Masks
Parcel Dewpoint Temperature (GOES)	GOES-13, GOES-15	Sounder	(ABI) Legacy Vertical Moisture Profiles



Mapping Legacy GOES Sounder Products to the GOES-R Series Advanced Baseline Imager (ABI)

Product Name	GOES Legacy	GOES Legacy (Sensor)	GOES-16 NETCDF4
Showalter Index (GOES)	GOES-13, GOES-15	Sounder	(ABI) Derived Stability Indices
Surface Skin Temperature (Sounder)	GOES-13, GOES-15	Sounder	(ABI) Land Surface Temperature
Vertical Moisture Profiles- Dewpoint (GOES)	GOES-13, GOES-15	Sounder	(ABI) Legacy Vertical Moisture Profiles
Vertical Temperature Profiles (GOES)	GOES-13, GOES-15	Sounder	(ABI) Legacy Vertical Temperature Profiles
High Density Water Vapor Winds (Sounder Ch. 10)	GOES-15	Sounder	(ABI) Derived Motion Winds
High Density Water Vapor Winds (Sounder Ch. 11)	GOES-15	Sounder	(ABI) Derived Motion Winds
Mixing Condensation Level (GOES)	GOES-13, GOES-15	Sounder	(ABI) Legacy Vertical Moisture Profiles
Normalized CAPE (GOES)	GOES-13, GOES-15	Sounder	(ABI) Derived Stability Indices
Total Precipitable Water (MSPS)	GOES-13, GOES-15	Sounder	(ABI) Total Precipitable Water
Total Precipitable Water (Blended)	DMSP F-17, GOES-13, GOES-15, GPS-Met, METOP-A, METOP-B, NOAA-15, NOAA-18, NOAA-19, S-NPP, GCOM, GPM	AMSU, SSMIS, ATMS, MHS, SSMIS, GOES Sounder, GPS, AMSR2, GMI	no matched BLENDED products
Total Precipitable Water Anomaly (Blended)	DMSP F-17, GOES-13, GOES-15, GPS-Met, METOP-A, METOP-B, NOAA-15, NOAA-18, NOAA-19, S-NPP, GCOM, GPM	AMSU, SSMIS, ATMS, MHS, SSMIS, GOES Sounder, GPS, AMSR2, GMI	no matched BLENDED products