

**GOES East GEOTIFF Products for GNC-A  
Northern and Southern Hemisphere Sectors  
GNC-A Coordination Group Broadcast Committee  
V2 - February 17, 2015**

NOAA/NESDIS/OSPO/SPSD operationally ingests and distributes GOES images. The GOES images are available to SPSD in McIDAS AREA format. In order to meet the requirement of GNC-A users, SPSD generates GOES East image products in GEOTIFF format. The GOES East Northern and Southern Hemisphere image products in GEOTIFF include channel 1 (Visible), channel 3 (Water Vapor), and channel 4 (Infrared Radiation).

1. The Pixel Value In GEOTIFF Image Products:

NOAA/NESDIS stores the value of Albedo in visible GEOTIFF files and the value of Brightness Temperature in WV and IR GEOTIFF files. SPSD reserves 2 bytes to store the pixel value in these GEOTIFF image products. The real pixel value is multiplied by the factor 100. For example, the value in GEOTIFF file will be 9720 if the real pixel value is 97.2.

Note that the value 0 is used in non-image area of GEOTIFF file.

2. The Coverage of GEOTIFF Image Products

The GEOTIFF image products cover both Northern Hemisphere and Southern Hemisphere. For each type image (Visible, IR, or WV), NOAA/NESDIS generates two individual GEOTIFF files at the same time. It means that there are 6 available GEOTIFF files during the routine scan of GOES east satellite. The Southern Hemisphere images are not available during Rapid Scan Operations.

Note that sector info can be found at: <http://www.ospo.noaa.gov/Operations/GOES/schedules.html>

3. The Frequency of GEOTIFF Image Products:

Per the imaging schedule of GOES East satellite, NOAA/NESDIS generates the image products every 30 minutes. (Image time @xx:15 and @xx:45 )

4. The file name convention of GEOTIFF sector image products:

IMAGE PRODUCT	COVERAGE	NAME CONVENTION
GOES EAST VISIBLE	NH	GoesEastNH01VJJJHHMM.tif
	SH	GoesEastSH01VJJJHHMM.tif
GOES EAST WATER VAPOR	NH	GoesEastNH04I3JJJHHMM.tif
	SH	GoesEastSH04I3JJJHHMM.tif
GOES EAST IR	NH	GoesEastNH04I4JJJHHMM.tif
	SH	GoesEastSH04I4JJJHHMM.tif