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PNSWSH

Service Change Notice 21-74 Updated  
National Weather Service Headquarters Silver Spring MD  
120 PM EDT Tue Aug 10 2021

To:           Subscribers:  
              -NOAA Weather Wire Service  
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              -NOAAPort  
              Other NWS Partners, Users and Employees

From:         Thomas Cuff  
              Director, NWS Office of Observations

Subject: Updated: GOES-East and GOES-West Fire Hotspots for Mesoscale Sectors to be Added to the Satellite Broadcast Network (SBN) on or after September 8, 2021

Updated to include current contact information for AWIPS Network Control Facility (NCF) Help Desk.

Effective on or after September 8, 2021, the Geostationary Operational Environmental Satellite (GOES-R) derived Fire Hotspots Data Product, for the GOES-East and GOES-West mesoscale sectors, will be added to the Satellite Broadcast Network (SBN). This will show the location and intensity of fires or likely fires every minute for each of these sectors.

The World Meteorological Organization (WMO) header, hourly product count, and data rate for the GOES-R MESO Fire Hotspots are as follows:

WMO ID	ABI Sector	Hourly Count	Hourly Volume
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IXTJ99 KNES	GOES-East Meso	2x60 files/hour	17 MBytes/hour
IXTJ89 KNES	GOES-West Meso	2x60 files/hour	17 MBytes/hour

(The WMO IDs are the same as those for the contiguous U.S. (CONUS) and Full Disk sectors.)

For each pixel, the following information will be accessible to Advanced Weather Interactive Processing System (AWIPS) users:

Field Name	Units / Semantics
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Fire Area	square meters (if Fire Mask = 10 or 30)
Fire Power	MegaWatts (if Fire Mask = 10, 13, 14, 30, 33, or 34)
Fire Temperature	Kelvin (if Fire Mask = 10 or 30)
Fire Mask	(see below)

The Fire Mask field has the following (partial) semantics:

Value	Meaning
0	unprocessed
10	good
11	saturated
12	cloud contaminated
13	high probability
14	medium probability
15	low probability
30	temporally filtered good
31	temporally filtered saturated
32	temporally filtered cloud contaminated
33	temporally filtered high probability
34	temporally filtered medium probability
35	temporally filtered low probability
40	off earth

The GOES-R ABI Fire Hot Spot Characterization Algorithm Theoretical Basis Document, available from <https://www.goes-r.gov/resources/docs.html>, provides further details about this data product (including the full list of Fire Mask codes in Table 3.11).

The GOES-R Fire Hotspots data product will go on the SBN Experimental (EXP) channel (PID 106).

Critical weather or other factors may delay the activation of this product on the SBN.

For questions pertaining to these changes, please contact:

Brian Gockel  
NOAA/NWS Office of Observations  
Silver Spring, MD  
Email: [brian.gockel@noaa.gov](mailto:brian.gockel@noaa.gov)

and

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 SBN-disseminated GOES-R Meso Fire Hotspot product, please contact:

Environmental Satellite Processing Center (ESPC) Help Desk  
Suitland, MD  
Phone: 301-817-3880  
Email: [espcoperations@noaa.gov](mailto:espcoperations@noaa.gov)

National Service Change Notices are online at:

<https://www.weather.gov/notification/>

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