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## EXAMPLES OF SNPP FIRE OBSERVATIONS IN 2012

**U.S. November Wildfire Activity (2000-2012)**

Year	Number of Fires (Red Line)	Acres Burned (Blue Line)
2000	~3,500	~4,500
2001	~10,500	~550,000
2002	~2,000	~2,000
2003	~2,000	~8,000
2004	~2,000	~9,500
2005	~2,000	~1,000
2006	~3,500	~3,500
2007	~4,000	~2,500
2008	~2,500	~4,000
2009	~2,500	~2,000
2010	~3,500	~2,000
2011	~3,000	~3,500
2012	~5,000	~250,000

Source: Data compiled by the National Interagency Fire Center (NIFC)

## M-band IDPS Product and Comparisons with Near-coincident Aqua MODIS

Idaho

## I-band Experimental Product

High Park, CO

*Little Bear, NM*

**GOFC-GOLD: Global Observation of Forest and Landcover Dynamics; a panel of the Global Terrestrial Observing System**

Timestamp <sup>1</sup>	Date <sup>2</sup>	Accel	TEFF	EMZ
NPP_VIRS_20121017_212542_213122	2012-11-07	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121017_162406_162947	2012-11-07	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121017_180500_180510	2012-11-07	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121017_194310_194858	2012-11-07	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121017_194874_194934	2012-11-07	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121017_187358_188415	2012-11-07	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121017_180632_181212	2012-11-07	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_214853_214924	2012-11-06	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_164171_164717	2012-11-06	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_182402_182438	2012-11-06	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_214312_214362	2012-11-06	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_200054_200857	2012-11-06	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_181821_182401	2012-11-06	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_200638_201208	2012-11-06	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_211821_212061	2012-11-06	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_220042_221024	2012-11-05	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_220042_221024	2012-11-05	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_181018_182387	2012-11-05	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_202358_202958	2012-11-05	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>
NPP_VIRS_20121016_184132_184713	2012-11-05	<a href="#">Download</a>	<a href="#">Download</a>	<a href="#">Download</a>

[illegible]

USDA Forest Service, Remote  
Sensing Applications Center  
FSWeb: <http://fsweb.rssc.fs.fed.us>  
WWW: <http://www.fs.fed.us/eng/rssc>

Comparison of VIIRS and Aqua MODIS active fire products

<http://activefiremaps.fs.fed.us>  
 Suomi NPP VIIRS - September 19, 2012 0005 UTC

*This work was supported by the NOAA JPSS Office (NJO) through the JPSS Proving Ground and the JPSS Algorithm Development and Validation programs.*

VIIRS			MODIS Equivalent			AVHRR-3 Equivalent			OLS Equivalent		
Band	Range (nm)	HSR (m)	Band	Range	HSR	Band	Range	HSR	Band	Range	HSR
DNB 1	0.500 - 0.900	750	NONE			Low light capabilities			HRD	0.580 - 0.910	550 2700
M1	0.402 - 0.422	750	8	0.405 - 0.420	1000				HRD	0.580 - 0.910	550 2700
M2	0.430 - 0.454	750	9	0.438 - 0.448	1000				PMT	0.610 - 0.680	550 2700
M3	0.478 - 0.498	750	3	0.459 - 0.479	500	NONE					
			10	0.483 - 0.493	1000						
M4	0.545 - 0.565	750	4	0.545 - 0.565	500						
			12	0.546 - 0.556	1000						
M5	0.600 - 0.680	375	1	0.620 - 0.700	250	1			0.572 - 0.703	1100	Imagery
			13	0.662 - 0.672	1000						
M5	0.662 - 0.682	750	1	0.672 - 0.683	1000	1			0.572 - 0.703	1100	Imagery
M6	0.739 - 0.754	750	15	0.743 - 0.753	1000	NONE					Attn Correction
M2	0.846 - 0.885	375	2	0.841 - 0.876	250	2			0.720 - 1.000	1100	NDVI
M7	0.846 - 0.885	750	16	0.862 - 0.877	1000	2			0.720 - 1.000	1100	Imagery
M8	1.230 - 1.250	750	5	1.230 - 1.250	500	5			SAME	500	Cloud
M9	1.371 - 1.386	750	26	1.360 - 1.390	1300	NONE					This Chirrus
M3	1.580 - 1.640	375	6	1.628 - 1.652	500	3a			SAME	1100	Snow Map
M10	1.580 - 1.640	750	7	1.628 - 1.652	500	3a			SAME	1100	Snow Fraction
M11	1.225 - 1.270	750	2	1.220 - 1.265	500	3b			SAME	1100	Cloud
M4	3.550 - 3.930	375	20	3.660 - 3.840	1000	3b			SAME	1100	Imagery, Clouds
M12	3.660 - 3.840	750	20	SAME	1000	3b			3.550 - 3.930	1100	SST, Fire
M8	3.973 - 4.128	750	21	3.929 - 3.989	1000	3b			3.929 - 3.989	1100	SST, Fire
			23	4.020 - 4.080	1000	NONE					
M14	8.400 - 8.700	750	29	SAME	1000	4			10.300 - 11.300	1100	Cloud Top Properties
M15	10.263 - 11.263	750	31	10.260 - 11.260	1000	4			10.300 - 11.300	1100	SST, fire
IS	11.500 - 12.400	375	31	10.780 - 11.280	1000	4			10.300 - 11.300	1100	HRD
			32	11.770 - 12.270	1000	5			11.500 - 12.500	1100	Cloud Imagery, 1
M6	11.530 - 12.488	750	32	11.770 - 12.270	1000	5			11.500 - 12.500	1100	SST

: DNB -band 750m (nadir)  
nighttime visible detection  
(experimental product); not  
discussed further in this  
presentation)

**viirsfire.geog.umd.edu**

end user feedback

- Can run IDPS, NASA or locally developed code
- Stand-alone

**M13 Data Aggregation Bug Identified (Feb 2012)**

Y-axis: Fire Peaks (0 to 4000). X-axis: Sun Angle (deg) (-55 to 55). Legend: M13 Fire Peaks (blue line), M13 Fire Peaks (red line).

**M13 Data Aggregation Revisited in IDPS Mx5.3 (May 2012)**

Y-axis: Fire Peaks (0 to 4000). X-axis: Sun Angle (deg) (-55 to 55). Legend: M13 Fire Peaks (blue line), M13 Fire Peaks (red line).

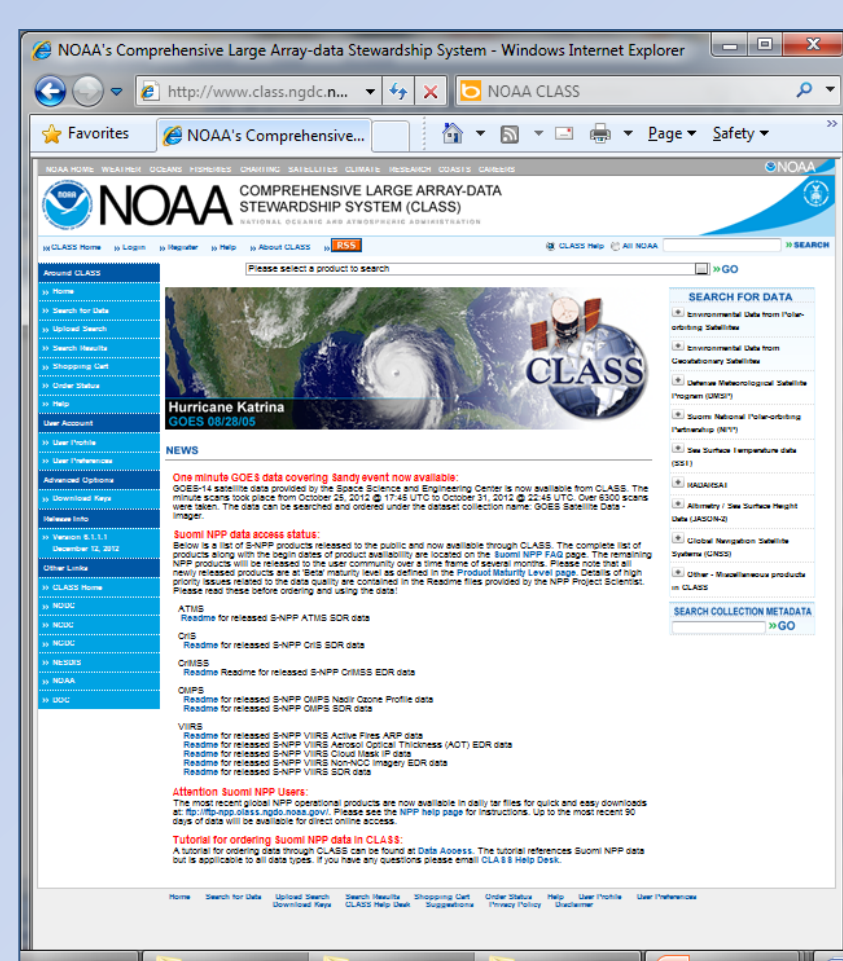
**VIIRSxMYD14 Fire Detection Frequency (19 Jan - 13 Feb)**

**VIIRSxMYD14 Fire Detection Frequency (11 May - 10 Jun)**

Y-axis: Fire Peaks (0 to 25). X-axis: Sun Angle (deg) (-55 to 55). Legend: 19 Jan - 13 Feb (red dots), 11 May - 10 Jun (green dots).

**M13 dual-gain data anomaly fixed in IDPS Mx6.3 (October 2012)**

The start date of the released data record is May 3, 2012 (the start of IDPS Mx 5.3)



- **Early release product**
- **Minimally validated**
- **May still contain significant errors**
- **Versioning not established until baseline is determined**
- **Available to allow users to gain familiarity with data formats and parameters**
- **Product is not appropriate as the basis for quantitative scientific publications, studies and applications**