

## Visible Infrared Imaging Radiometer Suite Viirs 750 M

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### **Visible Infrared Imaging Radiometer Suite**

The Visible Infrared Imaging Radiometer Suite (VIIRS) is a sensor designed and manufactured by the Raytheon Company on board the Suomi National Polar-orbiting Partnership (Suomi NPP) and NOAA-20 weather satellites. VIIRS is one of five key instruments onboard Suomi NPP, launched on October 28, 2011.

### **Visible Infrared Imaging Radiometer Suite - Wikipedia**

The Visible Infrared Imaging Radiometer Suite (VIIRS) instrument collects visible and infrared imagery and global observations of land, atmosphere, cryosphere and oceans.

### **Visible Infrared Imaging Radiometer Suite**

The Visible Infrared Imaging Radiometer Suite (VIIRS) is one of the key instruments onboard the Suomi National Polar-Orbiting Partnership (Suomi NPP) spacecraft, which was successfully launched on October 28, 2011.

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## **Visible Infrared Imaging Radiometer Suite (VIIRS)**

From 500 miles up in space, the Visible Infrared Imaging Radiometer Suite is changing the way we see Earth, and its value goes well beyond weather prediction. Its data is critical to industries as diverse as agriculture, finance, transportation, insurance and energy. Raytheon Intelligence & Space's VIIRS is a key instrument in the Joint Polar Satellite System, the nation's new generation polar-orbiting operational environmental satellite system.

## **Visible Infrared Imaging Radiometer Suite (VIIRS ...**

Visible Infrared Imaging Radiometer Suite (VIIRS) Corrected Reflectance Imagery is produced in near real-time (NRT), providing continuity from the MODIS Corrected Reflectance imagery which was developed to provide natural looking images.

## **Visible Infrared Imaging Radiometer Suite (VIIRS) | Earthdata**

Visible Infrared Imaging Radiometer Suite (VIIRS) The VIIRS instrument observes and collects global satellite observations that span the visible and infrared wavelengths across land, ocean, and atmosphere. A whiskbroom radiometer by design, it has 22 channels ranging from 0.41  $\mu\text{m}$  to 12.01  $\mu\text{m}$ .

## **Visible Infrared Imaging Radiometer Suite (VIIRS) - LAADS DAAC**

The Visible Infrared Imaging Radiometer Suite (VIIRS) is one of the key instruments onboard the NOAA-20 spacecraft. It collects visible and infrared imagery and global observations of land, atmosphere, cryosphere and oceans.

## **NOAA-20 Visible Infrared Imaging Radiometer Suite (VIIRS)**

The Visible Infrared Imaging Radiometer Suite (VIIRS) has multi-band imaging capabilities to support the acquisition of high-resolution atmospheric imagery and generation of a variety of applied products including visible and infrared imaging of hurricanes and detection of fires, smoke, and atmospheric aerosols.

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## **STAR JPSS - Instruments - Visible Infrared Imaging ...**

Visible Infrared Imaging Radiometer Suite (VIIRS) Nightfire data make use of six spectral bands to detect and characterizes sub-pixel infrared emitters. Provides locations and times of hot pixel detections along with estimates of temperatures and source sizes.

## **Visible Infrared Imaging Radiometer Suite (VIIRS)**

NASA has awarded a sole source contract modification to Raytheon Space & Airborne Systems, of El Segundo, California, for two Visible Infrared Imaging Radiometer Suite (VIIRS) instruments for the Polar Follow-On / Joint Polar Satellite System (JPSS) -3 and JPSS -4 Missions.

## **NASA Awards Visible Infrared Imaging Radiometer Suite**

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MODIS Land Team. Visible Infrared Imaging Radiometer Suite. Suomi NPP was launched at 5:48 a.m. EDT on Oct. 28, 2011, from Vandenberg Air Force Base in California, with 5 key instruments, including VIIRS. The VIIRS sensor is a component of the Suomi National Polar-orbiting Partnership (NPP) satellite. The Joint Polar Satellite System (JPSS), a NOAA/NASA program, and the Defense Weather Satellite System, a U.S. Air Force program, were tasked with the next generation requirements for ...

## **VIIRS Land Team**

Visible Infrared Imaging Radiometer Suite (VIIRS) Land Surface Temperature and Emissivity Product Collection 1 Algorithm Theoretical Basis Document Glynn Hulley, Tanvir Islam, Robert Freepartner, Nabin Malakar Jet Propulsion Laboratory, California Institute of Technology National Aeronautics and Space Administration Jet Propulsion Laboratory

## **Visible Infrared Imaging Radiometer Suite (VIIRS) Land ...**

The VIIRS instrument, a scanning radiometer, acquires visible and infrared imagery and radiometric measurements of the land, atmosphere, cryosphere, and oceans.

## **VIIRS Overview | National Snow and Ice Data Center**

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NOAA JPSS Visible Infrared Imaging Radiometer Suite (VIIRS) Nighttime Cloud O... This data set contains a high quality Environmental Data Record (EDR) of nighttime cloud optical and microphysical properties (NCOMP) from the Visible Infrared Imaging... NOAA JPSS Visible Infrared Imaging Radiometer Suite (VIIRS) Snow Cover Enviro...

## **Datasets - NOAA Data Catalog**

NASA scientists created the two new 'Blue Marble' images from data acquired by a new instrument that's aboard the Earth-observing satellite Suomi NPP, the Visible Infrared Imaging Radiometer Suite (VIIRS).

## **NASA - VIIRS Eastern Hemisphere Image - Behind the Scenes**

Visible Infrared Imaging Radiometer Suite VIIRS, a scanning radiometer, collects visible and infrared imagery and radiometric measurements of the land, atmosphere, cryosphere, and oceans.

## **Visible Infrared Imaging Radiometer Suite • IAS ...**

NOAA JPSS Visible Infrared Imaging Radiometer Suite (VIIRS) Sensor Data Record (SDR) from IDPS Sensor Data Records (SDRs), or Level 1b data, from the Visible Infrared Imaging Radiometer Suite (VIIRS) are the calibrated and geolocated radiance and reflectance data produced from the Raw Data Records.

## **NOAA JPSS Visible Infrared Imaging Radiometer Suite (VIIRS) ...**

A set of methods are presented for the global survey of natural gas flaring using data collected by the National Aeronautics and Space Administration/National Oceanic and Atmospheric Administration NASA/NOAA Visible Infrared Imaging Radiometer Suite (VIIRS). The accuracy of the flared gas volume estimates is rated at  $\pm 9.5\%$ .

## **Energies | Free Full-Text | Methods for Global Survey of ...**

The Visible Infrared Imaging Radiometer Suite (VIIRS-I) provides data from sensors aboard the joint NASA/NOAA Suomi National Polar-orbiting Partnership satellite. The 375-meter spatial

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resolution provides a greater response over fires of relatively small areas and provides improved mapping of large fire perimeters.

### **Walker Fire in Calaveras — California Fire Tracker**

VIIRS is a scanning radiometer that collects visible and infrared imagery and radiometric measurements of the land, atmosphere, cryosphere, and oceans. VIIRS data is used to measure cloud and aerosol properties, ocean color, sea and land surface temperature, ice motion and temperature, fires, and Earth's albedo.

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