

## Visible Infrared Imaging Radiometer Suite Viirs 750 M

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The Visible Infrared Imaging Radiometer Suite is a sensor designed and manufactured by the Raytheon Company on board the Suomi National Polar-orbiting Partnership and NOAA-20 weather satellite. VIIRS is one of five key instruments onboard Suomi NPP, launched on October 28, 2011. VIIRS is a whiskbroom scanner radiometer that collects imagery and radiometric measurements of the land, atmosphere, cryosphere, and oceans in the visible and infrared bands of the electromagnetic spectrum. VIIRS is capa

~~[Visible Infrared Imaging Radiometer Suite - Wikipedia](#)~~

Visible Infrared Imaging Radiometer Suite (VIIRS) 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. The VIIRS nadir door was opened on November 21, 2011, which enables a new generation of operational moderate resolution-imaging capabilities following the legacy of the AVHRR on NOAA and MODIS on Terra and Aqua satellites.

~~[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) 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 ?m to 12.01 ?m.

~~[Visible Infrared Imaging Radiometer Suite \(VIIRS\) - LAADS DAAC](#)~~

The Visible Infrared Imaging Radiometer Suite (VIIRS) instrument collects visible and infrared imagery and global observations of land, atmosphere, cryosphere and oceans. Currently flying on the Suomi NPP satellite mission, VIIRS generates many critical environmental products about snow and ice cover, clouds, fog, aerosols, fire, smoke plumes, dust, vegetation health, phytoplankton abundance and chlorophyll.

~~[Visible Infrared Imaging Radiometer Suite](#)~~

Visible Infrared Imaging Radiometer Suite (VIIRS) Description: 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.

~~[Visible Infrared Imaging Radiometer Suite \(VIIRS\)](#)~~

LANCE - Visible Infrared Imaging Radiometer Suite (VIIRS)

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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](#)~~

A fast instrument simulator is developed to simulate the observations made in cloudy atmospheres by the Visible Infrared Imaging Radiometer Suite (VIIRS). The correlated k distribution technique is used to compute the transmissivities associated with absorbing atmospheric gases.

~~[A fast Visible Infrared Imaging Radiometer Suite simulator -](#)~~

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.

~~[VIIRS Land Team](#)~~

The VIIRS (Visible Infrared Imaging Radiometer Suite) instrument aboard the Suomi National Polar-orbiting Partnership (NPP) observed Typhoon Yutu around 1:30 pm local time from October 23 to 26, 2018. The VIIRS images revealed a cloud-filled eye.

~~[VIIRS | NASA Earth Science Disasters Program](#)~~

The Visible Infrared Imaging Radiometer Suite (VIIRS) 375 m thermal anomalies / active fire product provides data from the VIIRS sensor aboard the joint NASA/NOAA Suomi National Polar-orbiting Partnership (Suomi NPP) and NOAA-20 satellites.

~~[VIIRS | Band 375 m Active Fire Data | Earthdata](#)~~

NSIDC has begun distributing cryospheric data from the Visible Infrared Imaging Radiometer Suite, or VIIRS.

~~[VIIRS Overview | National Snow and Ice Data Center](#)~~

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 ±9.5%.

~~[Energies | Free Full Text | Methods for Global Survey of -](#)~~

The Visible Infrared Imaging Radiometer Suite on the Suomi NPP satellite acquired these nighttime images at 1:45 am US eastern standard time (06:45 Universal Time) on January 27, 2015. The top image, lit by moonlight and city lights, shows a nor'easter off the coast of the East Coast of the United States.

~~[Nor'easter Pounds New England - NASA](#)~~

Of course, as the lamps were lit at night, optical imagery from Sentinel-2 or Landsat was not helpful. So we turned to the Visible Infrared Imaging Radiometer Suite (VIIRS) aboard the Suomi National Polar-orbiting Partnership satellite, which collects both day and night-time images.

~~[Was Diwali Visible From Space? | Pixalytics Ltd](#)~~

Visible Infrared Imaging Radiometer Suite (VIIRS) night- lights are used to model damage caused by earthquakes, floods, and typhoons in five Southeast Asian countries (Indonesia, Myanmar, the Philippines, Thailand, and Viet- nam).

~~[Can We Rely on VIIRS Nightlights to Estimate the Short -](#)~~

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