

TEHSIL/ DISTRICT/ STATE LEVEL VIIRS ACTIVE FIRE INDICES DERIVED AND VISUALIZED ON VEDAS

ABOUT

VIIRS (Visible Infrared Imaging Radiometer Suite) is one of the five sensors onboard NOAA's S-NPP (National Oceanic and Atmospheric Administration, Suomi National Polar-orbiting Partnership) satellite, which has been operating since 28 October 2011. VIIRS makes earth-atmosphere measurements in 22 spectral bands covering the 0.41 to 12.5 μm wavelength range. Active fire (or thermal anomaly) detection and fire radiative power are some of the important parameters retrieved from VIIRS observations. VIIRS has two active fire products derived from the I4-band (3.74, 3.55–3.93 μm) at 375 metres nadir resolution and using the M13-band (3.973–4.128 μm) at 750 metres.

The daily active fire pixel count (FC), Fire Pixel Area and Fire Radiative Power (FRP) for each administrative area (Tehsil, District and State) is calculated and provided on the VEDAS web GIS platform to the end users and researchers through an online portal.

The algorithm for PAN India was developed by NASA-GSFC and SAC ISRO under PESEP collaboration.

THE TEAM

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Reference:

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