

EOS-06 and INSAT-3DR Satellites

October 27, 2025 • vajiramandravi.com



About EOS-06:

- EOS-06, also known as **Oceansat-3**, is an **Earth observation satellite developed by** the Indian Space Research Organisation (**ISRO**).

- It was launched successfully on November 26, 2022, using ISRO's Polar Satellite Launch Vehicle (PSLV-C54).
- **EOS-06** is part of the Oceansat series of satellites, which are designed to monitor and **study various aspects of the Earth's oceans and coastal zones.**
- The **primary objective** of EOS-06 is to provide **continuity to the services of its predecessors** (Oceansat-1 and Oceansat-2) with enhanced payload capabilities to **support oceanographic and atmospheric studies.**
- This includes applications in **ocean surface studies, coastal zone management, and marine weather forecasting.**

About INSAT-3DR:

- Launched in September 2016, INSAT-3DR is the **successor to INSAT-3D, owned and operated by ISRO** (Indian Space Research Organisation).
 - It is an **advanced meteorological satellite** of India configured with an **imaging system and an atmospheric sounder.**
 - The significant improvements incorporated in INSAT-3DR are:
 - **Imaging in the middle infrared band** to provide **nighttime pictures of low clouds** and fog.
 - **Imaging in two thermal infrared bands** for **estimation of Sea Surface Temperature (SST)** with better accuracy.
 - Higher spatial resolution in the visible and thermal infrared bands.
 - INSAT-3DR will provide service continuity to earlier meteorological missions of ISRO and further augment the capability to provide various **meteorological as well as search and rescue services.**
-

Q1: What is a meteorological satellite?

A meteorological satellite is a type of satellite used to observe Earth's atmospheric conditions from space, providing essential data for weather forecasting, climate change studies, and environmental monitoring.

News: **Isro satellites track cyclone Dana as it approaches eastern coast**

Source: <https://vajiramandravi.com/current-affairs/eos-06-and-insat-3dr-satellites/>

© Vajiram & Ravi. For personal use only.