

GISAT-1 INDIA'S FIRST EARTH IMAGING SATELLITE ON GEOSTATIONARY ORBIT

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GISAT-1 or Geo Imaging Satellite-1 is India's first earth imaging satellite in a geostationary orbit.

A satellite in geostationary orbit (about 36,000 km above earth) has an orbital period equal to earth's rotational period.

Geosynchronous Satellite Launch Vehicle (GSLV-F10) [will launch GISAT-1 on March 5th](#) from Satish Dhawan Space Centre (SDSC) in Sriharikota, Andhra Pradesh. This will be the fourteenth flight of the GSLV.

The GSLV flight will have a four-metre diameter ogive-shaped payload fairing being flown for the first time. A payload fairing is a nose cone used by a spacecraft for protection against dynamic pressure and aerodynamic heating during launch.

After the launch, GISAT-1 will reach the final geostationary orbit of around 36,000 km using its onboard propulsion system.

The earth observing satellite that weighs around 2,275 kg has a lifespan of 7 years. It carries a multi- and hyper-spectral imager along with the 700 mm Ritchey-Chretien telescope for earth observation and data collection. Also it has a high resolution camera

Objectives of GISAT-1

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Studying flames of candle bunches, the team understood how combustors used in rockets work

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