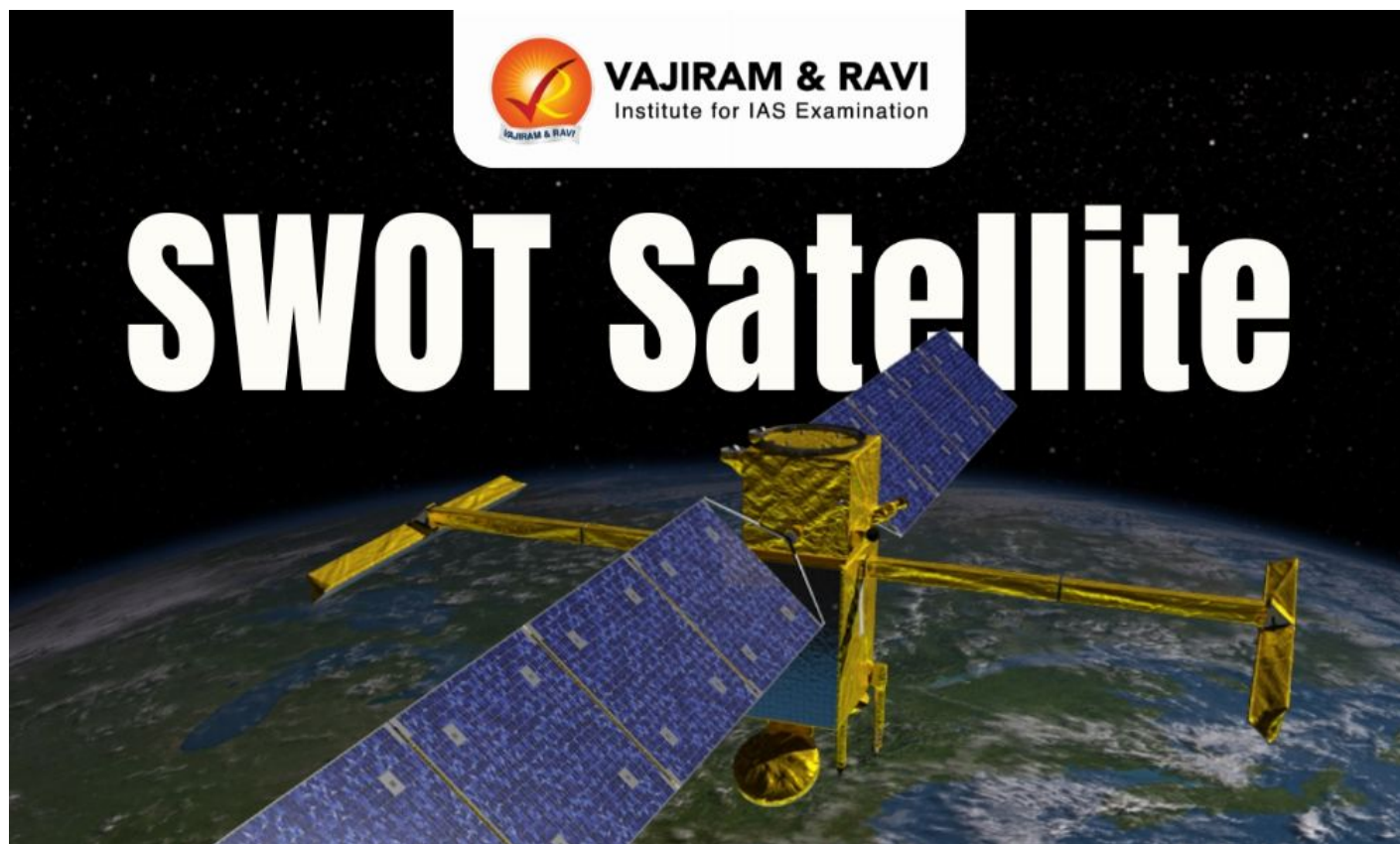


SWOT Satellite

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SWOT Satellite Latest News

Recently, NASA has developed a new map of the ocean floor by using satellite data from SWOT Satellite.

About SWOT Satellite

- The **Surface Water and Ocean Topography** (SWOT) satellite was launched in 2022.
- It is a joint mission of **NASA and CNES (French Space Agency)**.
- **Objective:** Satellite will collect detailed measurements of **how water bodies on Earth change over time**.

Features SWOT Satellite

- It uses a specialised instrument called the **Ka-band Radar Interferometer** (KaRIn) to measure the height, width, and elevation of surface water bodies such as rivers, lakes, reservoirs, and oceans.
- SWOT **offers high spatial resolution** by bouncing microwaves off water surfaces and calculating return time, allowing dynamic water movement tracking.
- The satellite covers over 55% of large-scale global floods during their lifecycle through frequent Earth orbits.

- The satellite circles Earth and can scan about 90 per cent of the **planet every 21 days.**
- It is equipped to observe the entire length of nearly all rivers wider than 330 feet and more than 1 million lakes and reservoirs larger than 5 acres.
- It will precisely measure fine differences in surface elevations around smaller currents and eddies, where much of the oceans' drawdown of heat and carbon is believed to occur.

Source: IE

Source: <https://vajiramandravi.com/current-affairs/swot-satellite/>

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