

PSLV C47 and CARTOSAT 3

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Why in news?

ISRO recently launched CARTOSAT 3, along with other nanosatellites, to be placed in orbit.



PSLV C47

- Polar Satellite Launch Vehicle is an ISRO's expendable launch system, which has been developed indigenously.
- It comes in the category of medium-lift launchers and can reach up to various orbits, including the Geosynchronous Transfer Orbit, Lower Earth Orbit, and Polar Sun Synchronous Orbit.
- All of PSLV's activities are managed by Satish Dhawan Space Centre, Sriharikota.

CARTOSAT 3

- It is an advanced earth observation satellite of the third generation with high-resolution imaging capability.



- It is developed to replace the IRS series.
- It will be set at an inclination of 97.5 degrees in a 509 km orbit.
- Till date, eight Cartosats have been launched by ISRO.
- Cartosat-3 has a panchromatic resolution of 0.25 metres making it the imaging satellite with highest resolution and Mx of 1 metre with a high-quality resolution, which is a major improvement from the previous payloads in the Cartosat series.
- It is used for various purposes like cartography,

mapping, locating water resources, rural resource development and so on.