

## ISRO launches Singapore's Earth Observation Satellite

July 31, 2023

July 30, 2023: Sriharikota: **Indian Space Research Organisation (ISRO)** launched the **Polar Satellite Launch Vehicle (PSLV-C56)** carrying seven Singaporean satellites from the **Satish Dhawan Space Centre (SDSC)** in Sriharikota, Andhra Pradesh. The DS-SAR is a Radar Imaging Earth Observation Satellite.

As per details, the 44.4 meters tall Polar Satellite Launch Vehicle (PSLV) lifted off at 6.30 am from the first launch pad at this spaceport situated about 135 km from Chennai. The PSLV-C56 is a dedicated mission of **New Space India Ltd**, the commercial arm of ISRO.



*Launch Pad #1, SDSC, Sriharikota, Andhra Pradesh, India: ISRO's PSLV-C56 rocket carrying Singapore's DS-SAR Satellite and 6 other satellites .*

The DS-SAR is a 360 Kg Radar Imaging **Earth Observation Satellite**, which is capable of **taking images under all weather conditions, with one meter resolution**. It has been developed in a public-private partnership of Singapore government's **Defence Science and Technology Agency (DSTA)** and **Singapore Technologies Engineering Ltd (ST Engineering)**, a technology, defence and engineering company. The satellite was developed for Singapore by **Israel**

**Aerospace Industries (IAI).** The satellite's **Synthetic Aperture Radar (SAR)** will support the satellite imagery needs of Singapore's government agencies.

The six co-passenger satellites are:

1. **VELOX-AM**, a 23 Kg technology demonstration microsatellite
2. **ARCADE** (Atmospheric Coupling and Dynamics Explorer)
3. **SCOOB-II**, an experimental satellite
4. a 3U nanosatellite flying a technology demonstrator payload, **NuLioN** by NuSpace, an advanced 3U nanosatellite enabling seamless IoT connectivity in both urban & remote locations,
5. **Galassia-2**, a 3U nanosatellite, measuring 300 millimeters tall, 100 millimeters long by 100 millimeters wide and weighs about four kilograms. It will be orbiting at low earth orbit. Galassia was built by students of College of Design & Engg, National University of Singapore.
6. **ORB-12 STRIDER**, from Aliena Pte. Ltd., Singapore, a satellite developed under an international collaboration.

By—**Dr. K. N. Mistry**

[www.DiGiNews360.com](http://www.DiGiNews360.com) may remind the readers that ISRO has launched satellites from more than 34 countries, including 36 satellites from One Web of UK. (Please see Page 1 of "Space Rocket and Technology Companies blossom in India" at <https://diginews360.com/space-rocket-technology-companies-blossom-in-india/>).

Even though India has not been accepting any State-to-State aid for more than a decade, a British MP said, a few months back, that UK should stop aid to India, when India was spending on Space technologies. In this connection, [www.DiGiNews360.com](http://www.DiGiNews360.com) may recall a tweet by **Anand Mahindra**, a prominent Indian industrialist, who said that **India was fortunate in having ISRO.**

**References:!** IAI: <https://www.iai.co.il/news-media/press-releases/iai-ds-sar-satellite-has-been-successfully-launched-and-entered-earth>

2.Galassia: <https://tinyurl.com/36w4zxps>

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