

2BR1

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Context: ISRO successfully injected into orbit the country's remote imaging earth observation satellite RISAT-2BR1 along with nine other foreign commercial satellites

- RISAT-2BR1 is radar imaging earth observation satellite. The satellite will provide services in the field of Agriculture, Forestry and Disaster Management.
- Launch Vehicle- PSLV C-48. PSLV-C48 is the second flight with 'QL' configuration equipped with four strap-on motors on its sides. The first flight with a similar configuration was launched in April 2019 (PSLV-C45/EMISAT and 28 other satellites).
- The mission was historic as it coincides with 50th flight of PSLV.
- It was injected precisely into the 576 km orbit (Low Earth Orbit)
- The 628 kg remote imaging earth observation satellite RISAT-2BR follows RISAT-2B
- Apart from being used for military purposes, the key applications of RISAT-2BR1 include agriculture, forestry and disaster management support.
- The mission life is five years

Other

- The satellites are being launched under a commercial arrangement with New Space India Ltd which is the commercial arm of ISRO

PLSV

- Of the total 50 missions, 48 have been successful for ISRO.
- The PSLV has placed around 310 foreign satellites with the first mission in September 1993

- Some significant launches by PSLV include Chandrayaan-1, Mars Orbiter Mission (MOM) and the record launch of 104 satellites in one go earlier