



PSLV-C46/ RISAT-2B MISSION

Launch Kit

INDIAN SPACE RESEARCH ORGANISATION



PSLV C55 – RISAT 2SR



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15 PUBLICATIONS 12000 CITATIONS

CONTENTS

Mission Description 3

Flight Sequence & Events 4 PSLV-

C55 5

RISAT-2SR 6

Glimpses 7

2



MISSION DESCRIPTION

India's Polar Satellite Launch Vehicle (PSLV), in its 48th mission (PSLV-C55), will launch RISAT-2SR, a Radar imaging earth observation satellite, from Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota.

Payload	RISAT-2SR
Orbit height	557 km
Inclination (deg)	37
Launch Pad	First Launch Pad (FLP)
Launch Azimuth (deg)	140

MILESTONES



72nd
Launch Vehicle
Mission
from SDSC
SHAR



48th
Flight of
sLV



36th
Launch from
First Launch
Pad

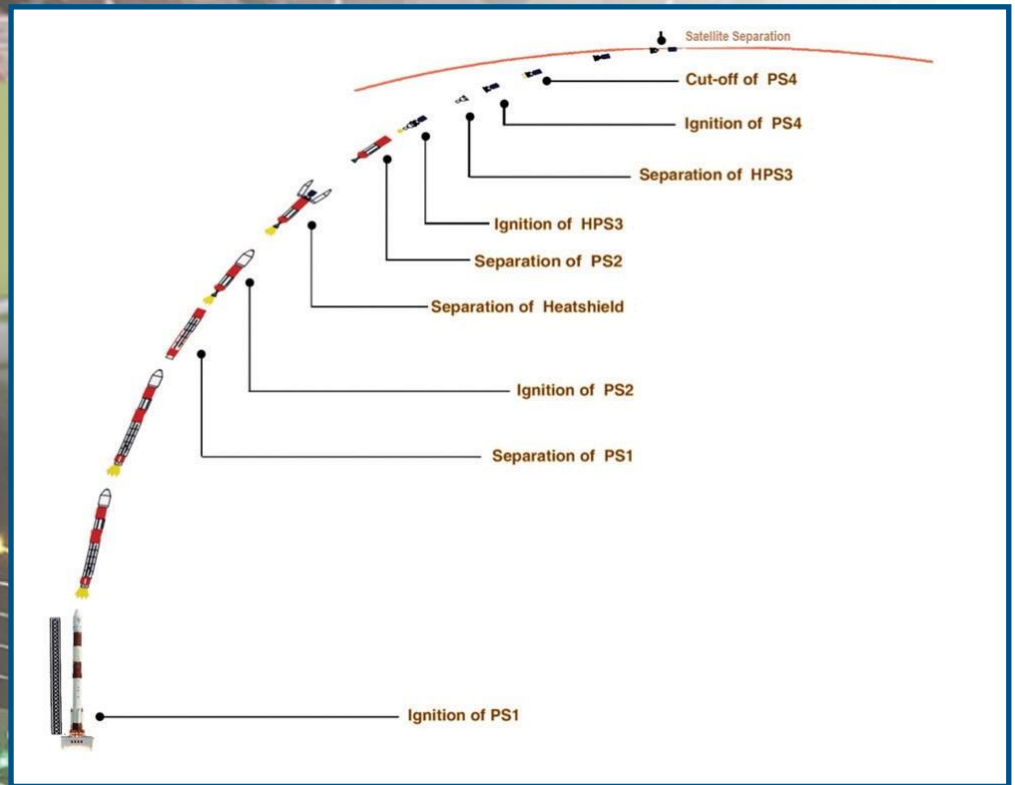


14th
Flight of
PSLV
Core-Alone



3rd
Launch of
2019

PSLV-C55 FLIGHT SEQUENCE



Flight Events	Time after-liftoff	Altitude (km)	Velocity (m/s)
PS1 Ignition	0	0.026	451.89
PS1 Separation	1 min 50.60 s	51.853	1594.79
PS2 Ignition	1 min 50.80 s	52.049	1593.77
Payload Fairing Separation	2 min 57.60 s	113.489	2252.26
PS2 Separation	4 min 22.44 s	188.740	4324.80
PS3 Ignition	4 min 23.64 s	189.819	4322.49
PS3 Separation	9 min 23.72 s	438.533	6943.22
PS4 Ignition	9 min 34.12 s	445.897	6934.12
PS4 Cut-off	14 min 42.42 s	558.597	7577.05
RISAT-2SR Separation	15 min 29.42 s	558.902	7580.81

PSLV-C55/RISAT-2SR MISSION

Third Stage (HPS3)

Height: 3.6 m
Diameter: 2 m
Propellant: HTPB
Propellant Mass: 7.65 t

Height: 3.0m
Diameter: 1.34m
Propellant: MMH & MON 3
Propellant Mass: 1.6t

Height: 12.8m
Diameter: 2.8 m
Propellant: UH25 & N2O4
Propellant Mass: 41t

First Stage (PS1)

Height: 44.4 m



RISAT-2SR is a radar imaging earth observation satellite developed by ISRO.



Lift-off weight	615 kg
Altitude	) 557 km
Payload	X-Band Radar
Inclination	) 37 deg
Mission Life	5 years

- Agriculture
- Forestry
- Disaster Management Support

PSLV-C55/RISAT-2SR MISSION

GLIMPSES



Hoisting of the nozzle end segment of PSLV-C55 first stage over the launch pedestal



PSLV-C55 integration under progress at Mobile Service Tower



Placement of interstage over PSLV-C55 first stage during vehicle integration



Hoisting of PSLV-C55 Liquid second stage



PSLV-C55 Third and Fourth stages at Stage preparation Facility



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