



ADITYA-L1

MISSION

Why In News

The Countdown For **The Launch Of India's Maiden Solar Mission, Aditya L1** Onboard The PSLV, Commenced From **Sriharikota** On Friday, ISRO Said. The Sun Observatory Mission Was Launched From This Spaceport At 11.50 Am.



Why In News

The Aditya-L1 Mission Will Take Around **109 Earth Days** After Launch To Reach The Halo Orbit Around The L1 Point, Which Is About 1,500,000 Km (930,000 Mi) From Earth. The **1,500 Kg** Satellite Carries Seven Science Payloads.



Why In News

Longest Flights Of PSLV Lasts For **63 Minutes** After The Lift Off, The Rocket Will Eject **Aditya-L1** And The **Whole Mission** Comes To An End At About **73 Minutes** With The Passivation Of The Fourth Stage.



Steps Followed

Rocket Ignition

Ignition Of Two Air-lift PSOM's(Propellant Strap-on Motors)

Separation Of Four Ground-lit PSOM'S

Separation Of Two Air-lit PSOM's

PS-1 Separation

PS-2 Ignition

Steps Followed

Heatshield Separation

PS2 Separation

HPS3 Ignition

HPS3 Separation

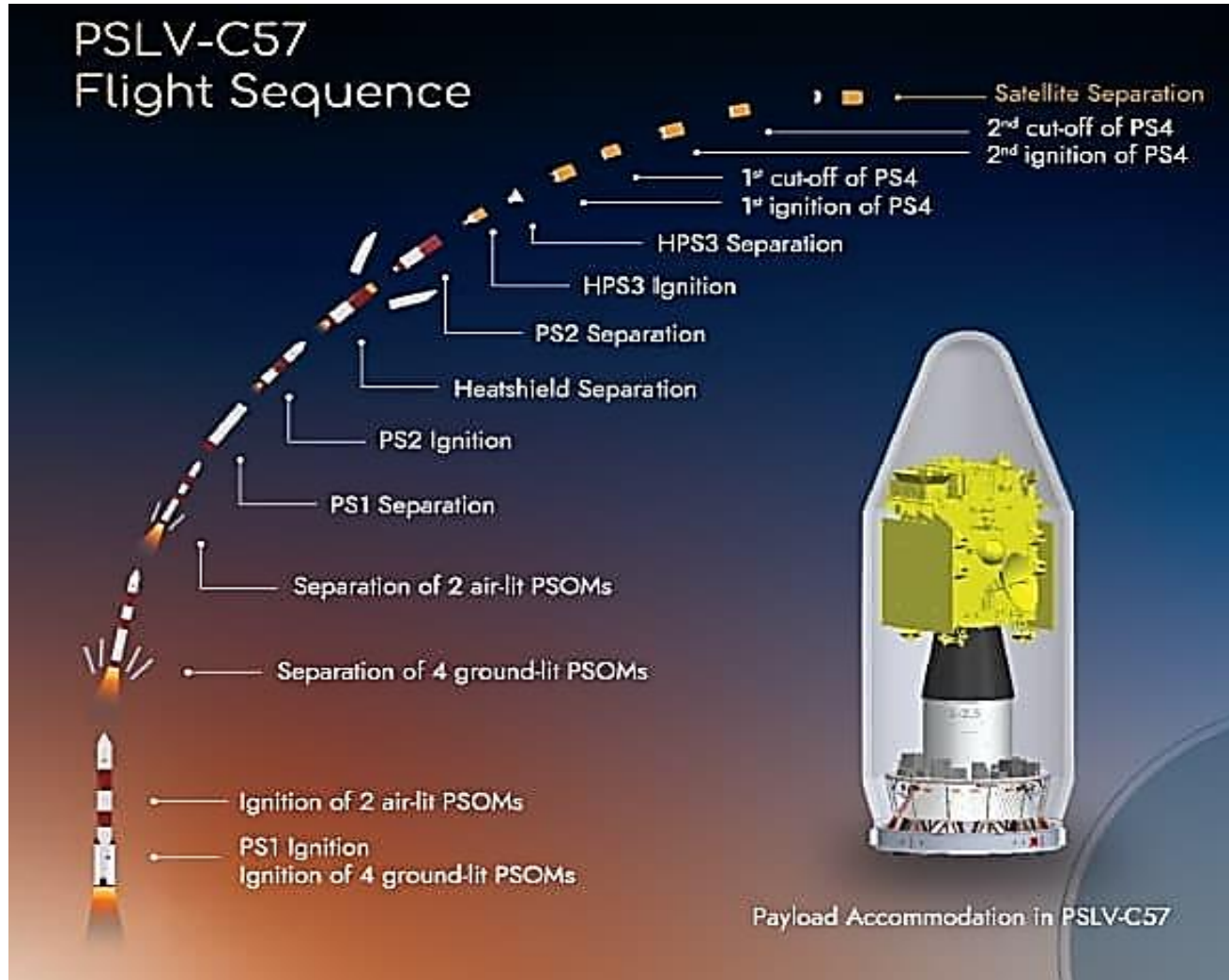
1st Cut-off Of PS4

2nd Ignition Of PS4

2nd Cut-off From PS4

Satellite Separation

Stages Of Aditya L1



Stages Of Aditya L1

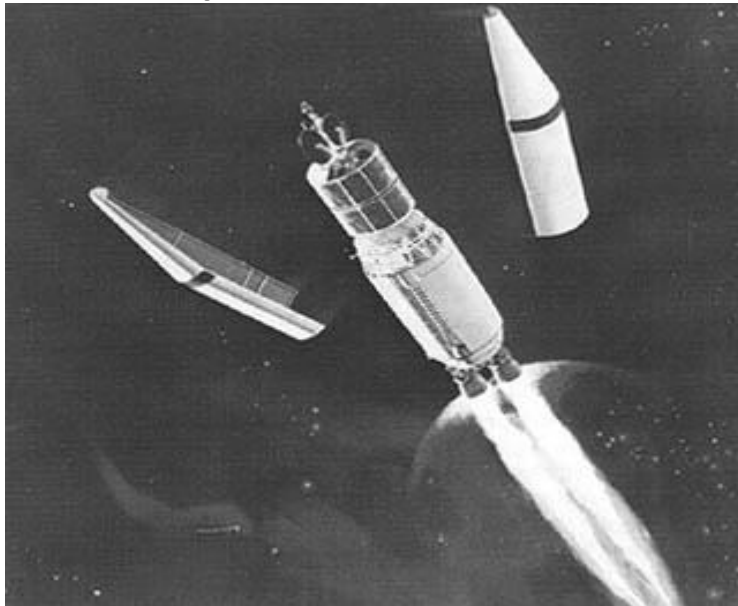
ISRO Aditya- L1, India's First Solar Observatory Mission, **Successfully Lifted Off** From Sriharikota At 11.50am. **Automatic Launch Sequence** Was Adopted.

Stage Starts With Ignition Of **S139 Booster Solid Rocket Motor** And Ignition Of 4 Ground Lit Strap PSOM's.



Stages Of Aditya L1

Second Stage Ignited Operate On Pressure Feed **Liquid Engine**. The **Heat Shield** Separated From The Rocket. The **Payload Fairing Has Separated**, Giving The First Feel Of Space To The Aditya L1 Spacecraft **Leaves Earth's Dense** Atmosphere.



Stages Of Aditya L1

PSLV Separated From The Spacecraft And PS4 Is Now In Coasting Phase As It Tries To Attain Its Altitude.



Stages Of Aditya L1

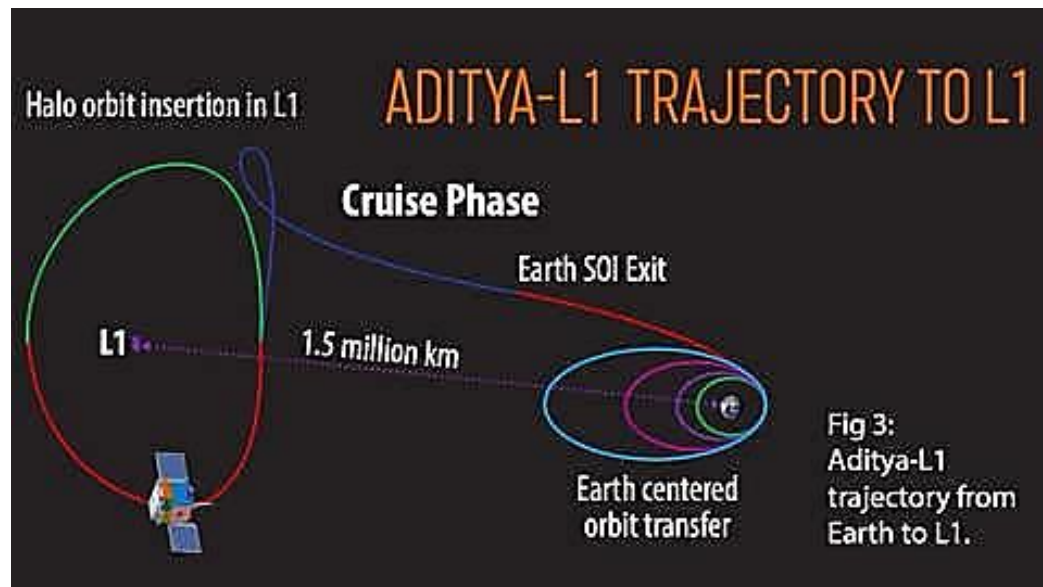
The PSLV's PS4 Liquid Fourth Stage The **Spacecraft Is Not Visible** To The Tracking Station And Telemetry Will Be Received Only When It Comes Back In Visibility.

Aditya L1 Has Separated From The Fourth Stage Of PSLV And It Has Now Begun Its Journey In Space On Its Own Forever.



How Long It Will Be In Earth Orbits

Aditya L1 Will Stay In Earth-bound Orbits For **16 Days As It Undergoes Five** Manoeuvres To Gain Speed **Needed For L1 Jump**. The Total Journey Time For ISRO's Aditya- L1 Solar Mission From Sriharikota (Earth) To L1 Is Estimated To Be About **Four Months**.



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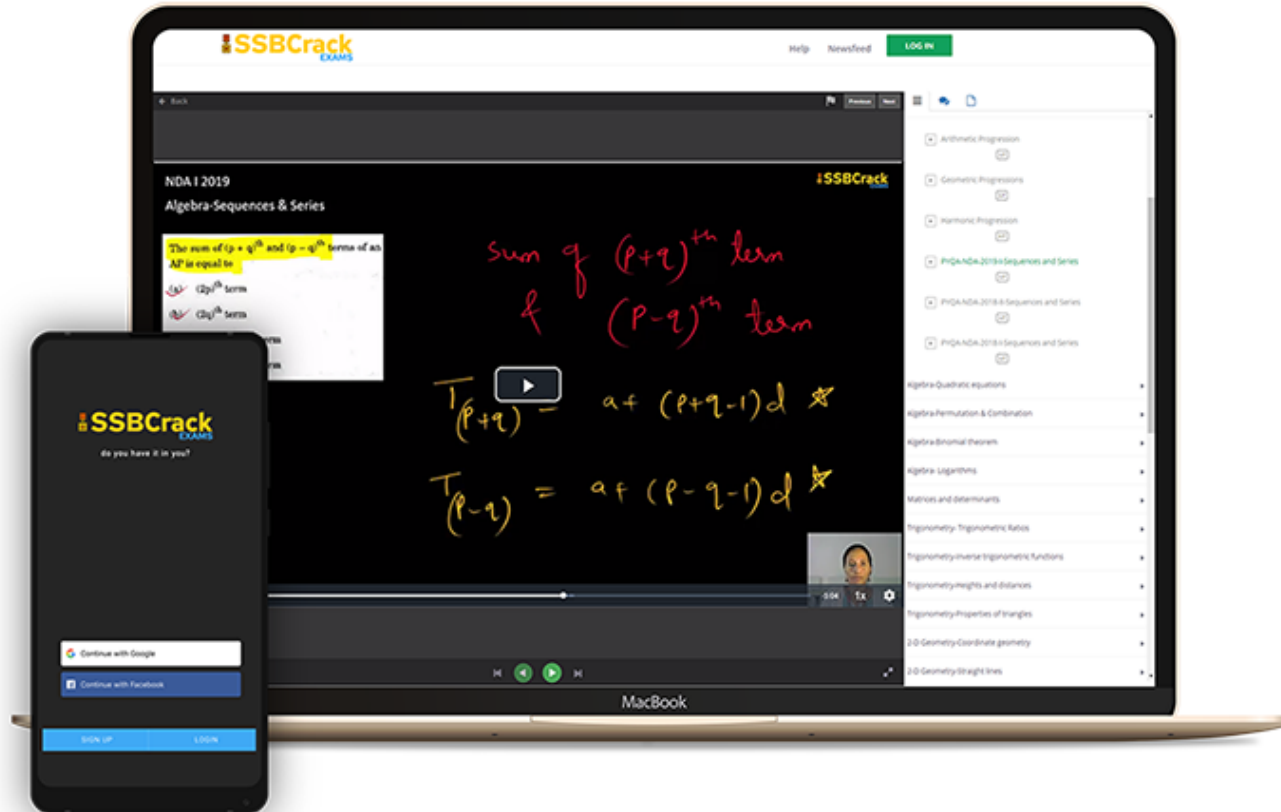
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