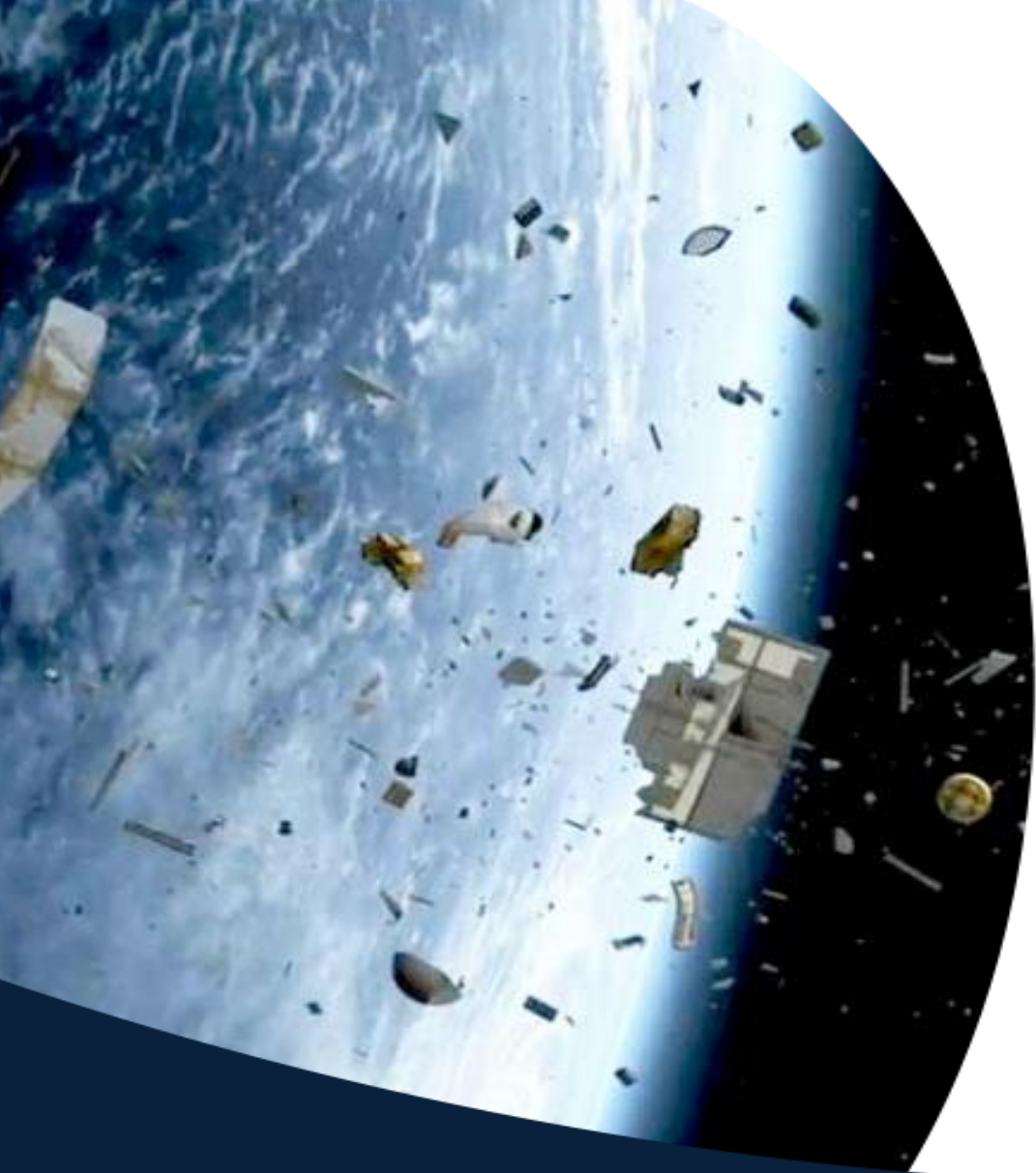




ADRAS-J: Overview

Sharon Sara Saji
Flight Dynamics & Operations Engineer

October 19th, 2023



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Introduction



World's first attempt to safely approach and characterize an existing piece of large debris through RPO



Dimensions

Stowed with no Solar Arrays Deployed	Approx. 83cm x 81cm x 1.20cm
Solar Arrays Deployed	Approx. 370cm x 81cm x 1.20cm
Mass	Approx. 150kg

Launch

Provider	Rocket Lab
Launch Vehicle	Electron
Launch Site	Launch Complex 1, Mahia, New Zealand
Date	2023

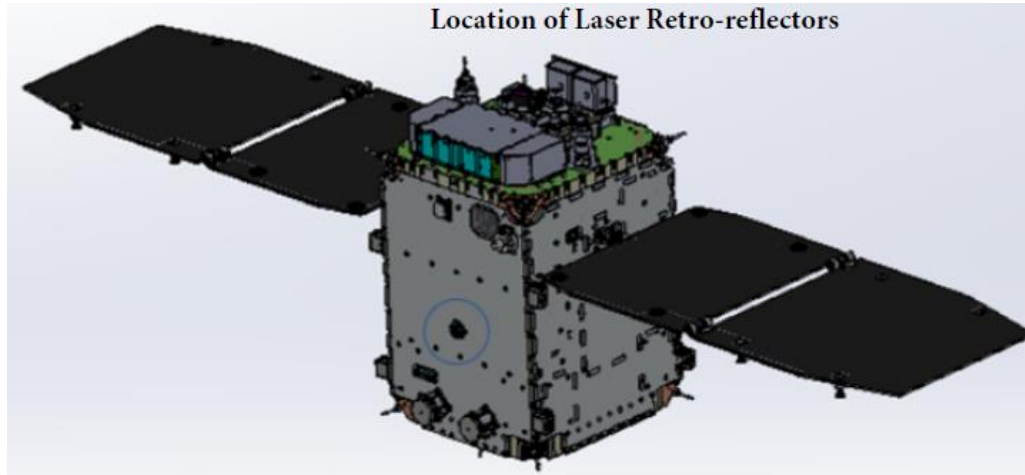


Astroscale Ships World's First Debris Inspection Mission to Launch Site

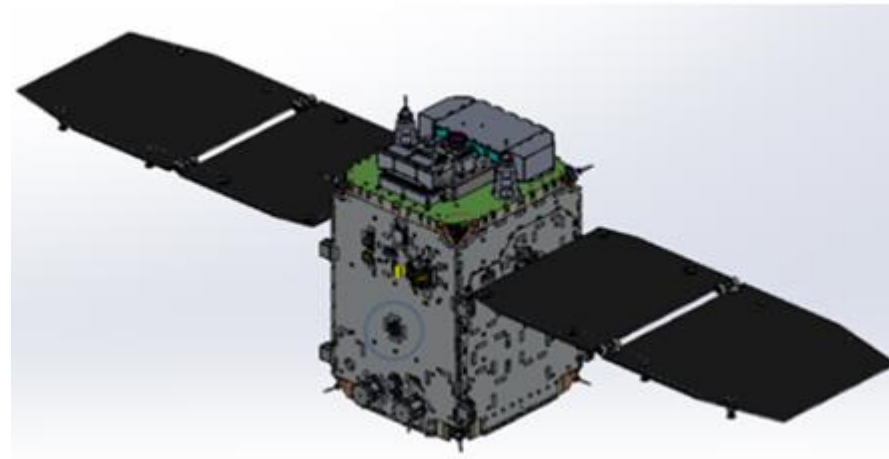


(Above) *SSC: 33500 H2A R/B imagination
Credit: JAXA

Laser Retroreflector Locations



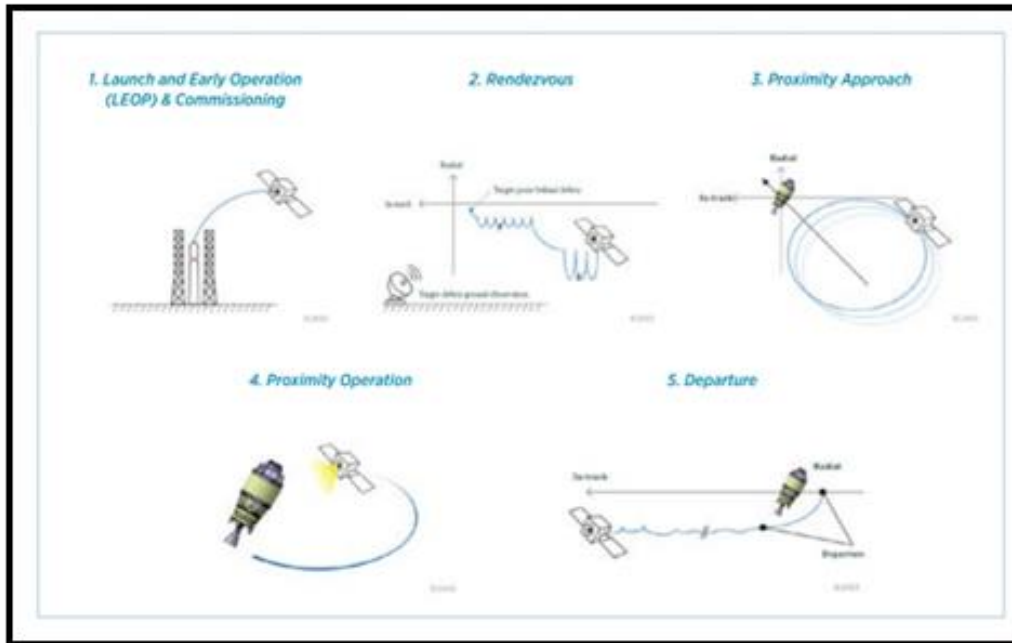
+Z/-Z panels both house laser retro-reflectors, with the +Z nominally pointing towards Earth.



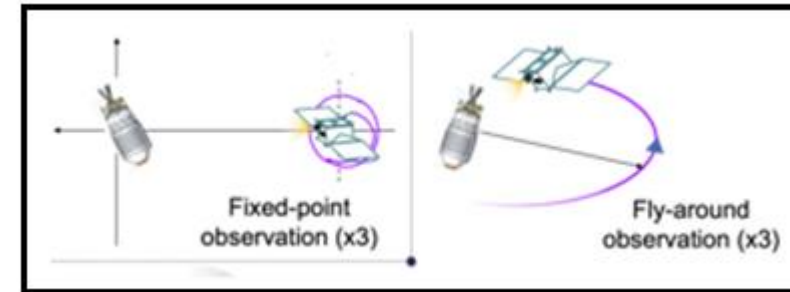
Outline of the Mission



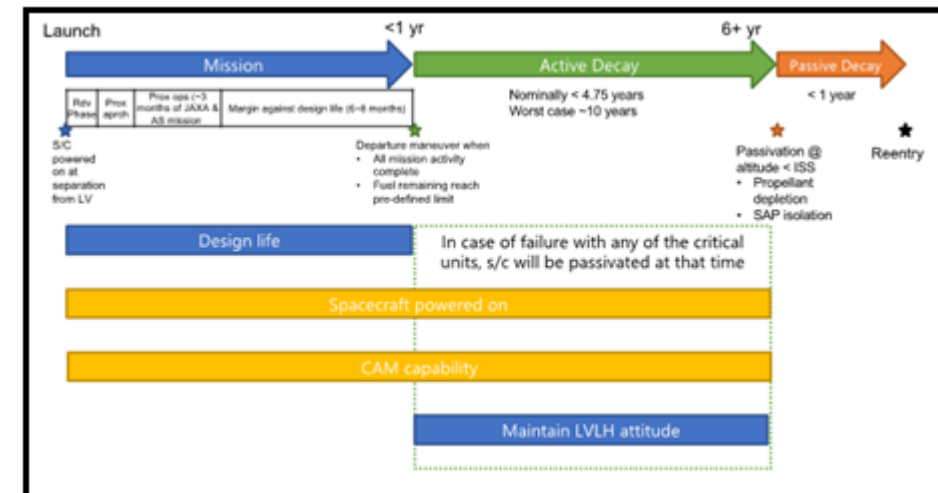
Different Phases of the Mission



Servicer & Client at the Closest Distance



Mission Life



ADRAS-J Concept of Operations:Video





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