



## **ADRAS-J: Overview**

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# Introduction

# Laser Retroreflector Locations

**Outline of the Mission** 

ADRAS-J ConOps Video



## Introduction

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



#### Dimensions

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

#### Launch

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



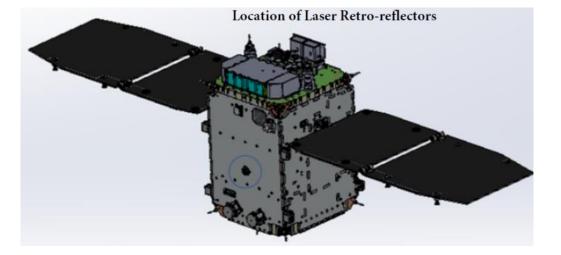
#### Astroscale Ships World's First Debris Inspection Mission to Launch Site



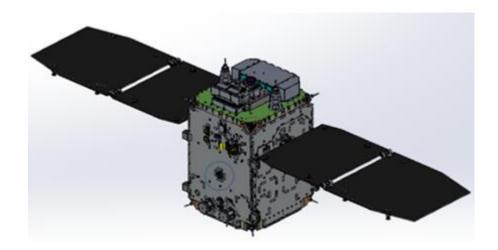
(Above) \*SSC: 33500 H2A R/B imagination Credit: JAXA

## **Laser Retroreflector Locations**





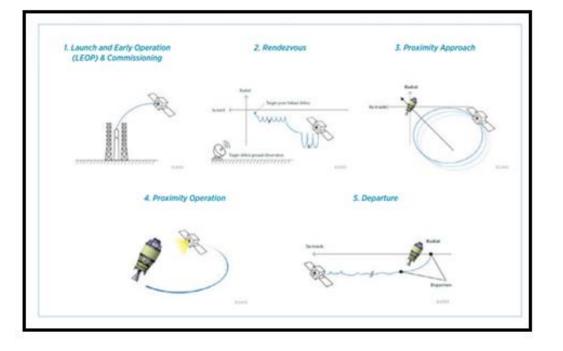
### +Z/-Z panels both house laser retro-reflectors, with the +Z nominally pointing towards Earth.



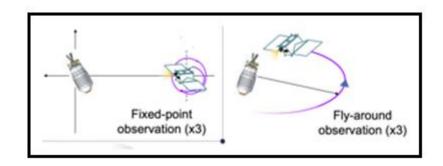
## **Outline of the Mission**



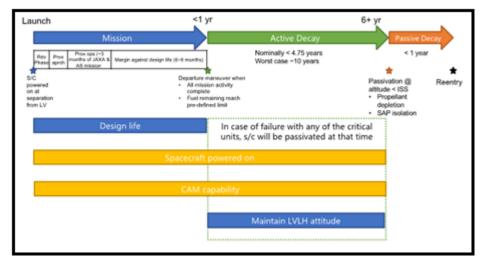
### Different Phases of the Mission



#### Servicer & Client at the Closest Distance



#### **Mission Life**



## **ADRAS-J Concept of Operations**





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