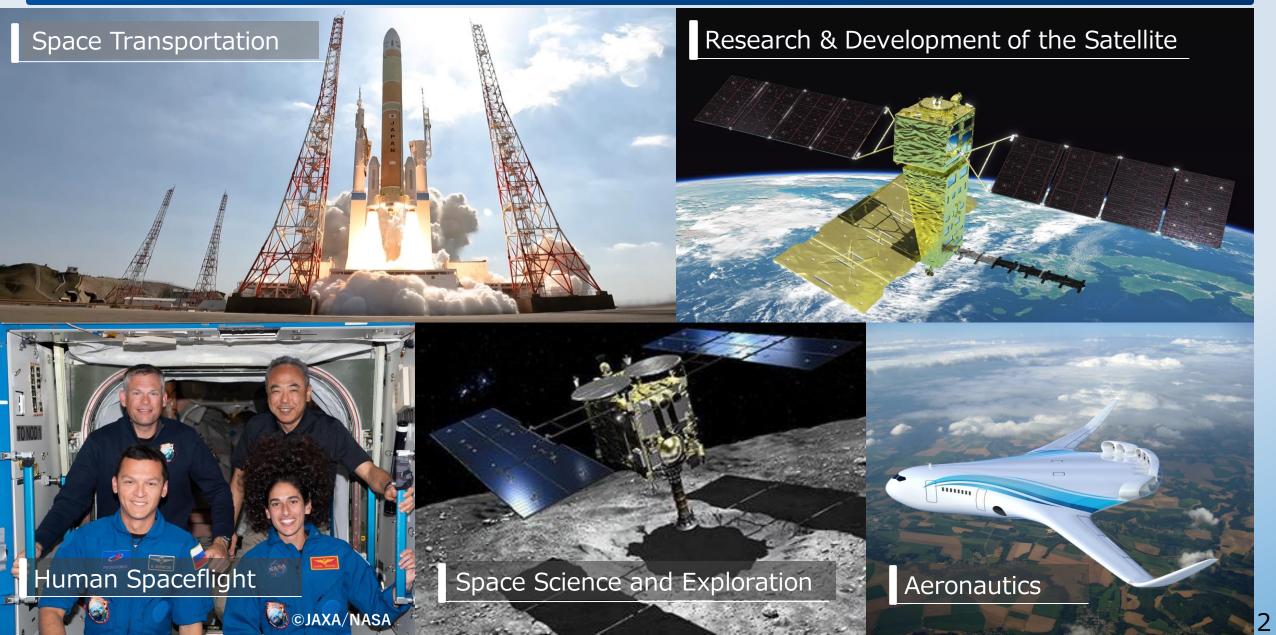


JAXA Missions

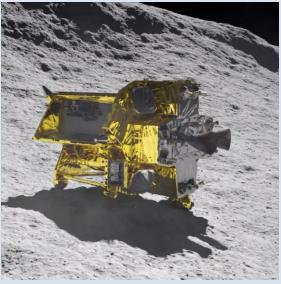




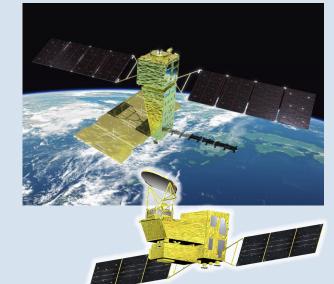
Recently completed & Upcoming Events 2024~











H-IIA Rocket Launch

Lunar Surface Landing

Human Spaceflight

Earth Observation

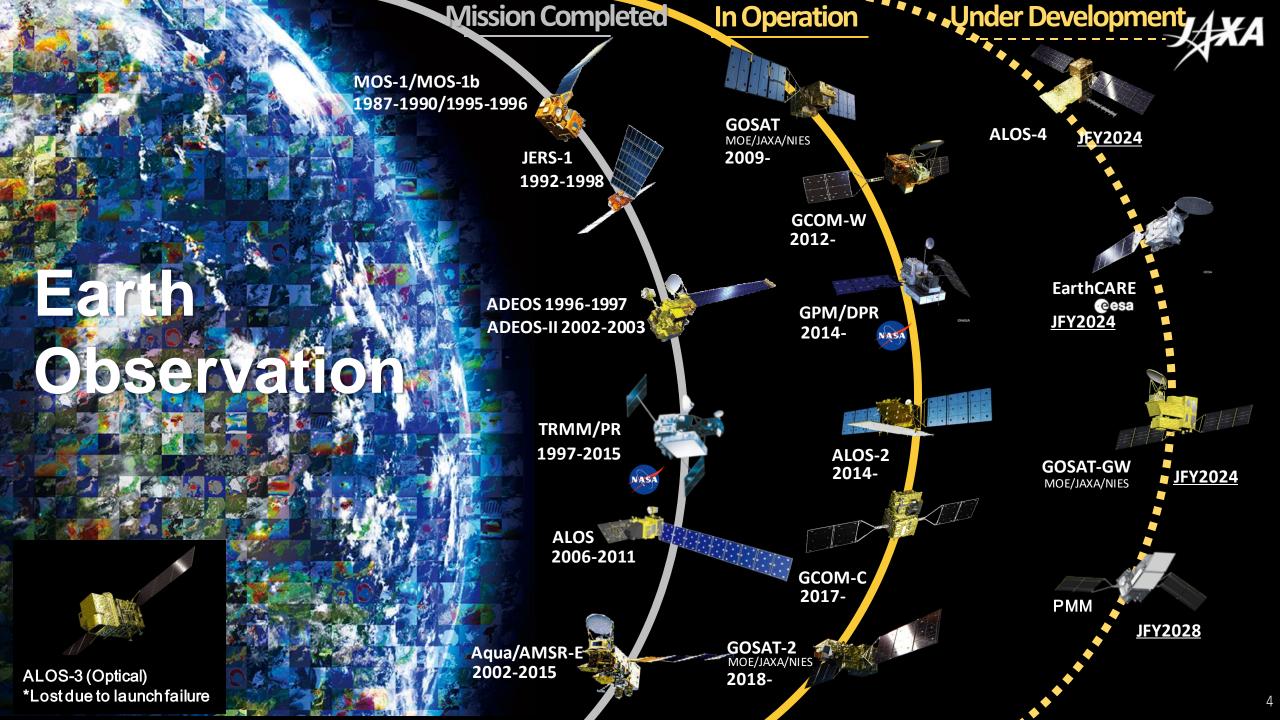




First Flight of Epsilon S



Return to Flight of H3 Rocket



JAXA Astronauts

























Human Spaceflight



Astronaut Satoshi FURUKAWA on Crew-7 Mission

- ◆ Launched by SpaceX's Crew-7 on Aug. 26th, 2023
- ◆ Astronaut Furukawa has been on the International Space Station for about six months, conducting a variety of research, including experiments aimed at future exploration of the Moon and Mars, and, of course, experiments related to space education
- ◆ Returning to the Earth on 12th February 2024





H-IIA Rocket Launch



H-IIA Flight No.48

- ◆ Successfully launched from Tanegashima Space Center on Jan. 12th, 2024
- Government mission satellite on board
- ◆ 42 consecutive successful launches from Flight No.7, leading to a success rate of over 98%
- ◆ H-IIA is scheduled for two more launches in this year 2024. Once the 50th and final vehicle is launched, H2A will be completely retired and replaced by the new H3 launch vehicle.



Lunar Surface Landing





SLIM (Smart Lander for Investigating Moon) & Lunar Excursion Vehicles

- ◆ Launched by HIIA 47 on Sep. 7th, 2023
- ◆ Successfully landed on the lunar surface on January 20th JST, 2024, and achieved high-precision ("pinpoint") landing technology



▲ Images of the Lunar surface taken and transmitted by Transformable Lunar Robot "SORA-O"

Laser Retro-reflector

Array provided by

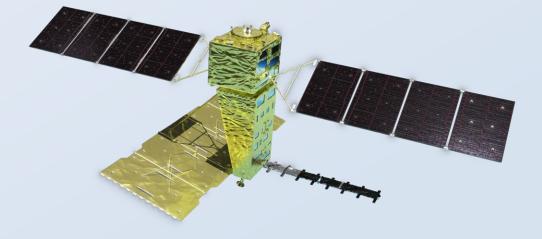
NASA on board



Earth Observation



ALOS-4



- **◆** ALOS-4 (Advanced Land Observing Satellite-4)
 - L-band radar satellite observing and monitoring disaster-hit areas, forests, and sea ice.
 - Achieving both high resolution (3m) and a broader observation swath (200km)
 - Will be launched by H3 rocket in JFY2024

GOSAT-GW



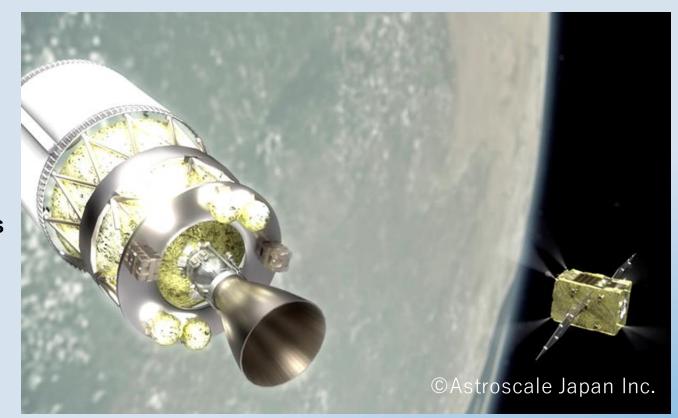
- ◆ GOSAT-GW (Global Observing SATellite for Greenhouse gases and Water cycle)
 - Joint mission with MoE, NIES, and JAXA
 - Global monitoring of GHG and water cycle variation
 - Will be launched by H-IIA Rocket in JFY2024

Active Debris Removal



Commercial Removal of Debris Demonstration (CRD2) Phase I

- ◆ ADRAS-J (Active Debris Removal by Astroscale-Japan)
 - The world's first attempt to safely approach and characterize an existing piece of large debris through Rendezvous and Proximity Operations (RPO)
 - Successfully launched by Rocket Lab
 Electron rocket from Launch Complex 1
 in Mahia, New Zealand on February 18th



Return to Flight of H3 Rocket





H3 launch vehicle

- ◆ Japan's next-generation heavy-lift launch vehicle
- ◆ The second test flight was successfully launched from Tanegashima Space Center on February 17th and realize a "Return to Flight"

Launch capability: more than 6.5t to GTO

Target price: about 5 billion yen*

*for a light configuration with no solid rocket booster



First Test Flight of Epsilon S







Epsilon S launch vehicle

- ◆ Solid-propellant rockets for increasing launch demand of small- and micro-satellites, and CubeSats
- ◆ Aiming to expand Japan's industry base in space transportation by transferring the Epsilon Launch Vehicle to the private sector (IHI Aerospace)
- ◆ Plan to launch the first test flight in JFY2024
- ◆ Some of JAXA's solid fuel launch vehicle technology is used in the Japanese space rocket venture Space One's launch vehicle.

Launch Capability Targets:

More than 1,400kg to LEO / More than 600kg to SSO



