

“Projects Overview”

ASTER: Advanced Spaceborne Thermal Emission and Reflection radiometer

ASTER was developed as a joint project between the US NASA and the former Ministry of International Trade and Industry (now the Ministry of Economy, Trade and Industry). It was launched aboard the Terra satellite in 1999 and started data reception in 2000. It is still in operation.

HISUI: Hyperspectral Imager SUite

HISUI was developed as a project of the Ministry of Economy, Trade and Industry to further improve the efficiency of oil and metal resource exploration and was installed on the International Space Station in 2019. HISUI data has high spectral resolution, and it is possible to precisely identify surface materials through data processing and analysis.

SSPS: Space Solar Power System

Since 1993, as a project of the Ministry of Economy, Trade and Industry, we have been conducting research and development on space solar power generation systems and their component technologies to transmit power generated by solar energy in space to the ground using microwave. SSPS, which is expected to become a sustainable energy source, continues to develop its microwave wireless power transmission technology.

CLAS-Based RTK Correction System

CLAS: Centimeter Level Augmentation Service

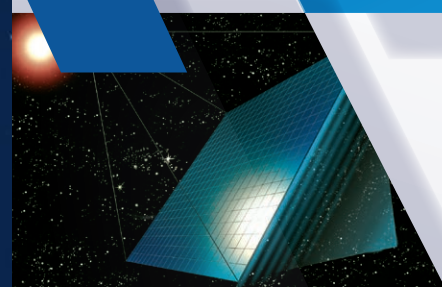
To enable low-cost RTK receiver terminals to use CLAS, one of the QZSS (MICHIBIKI) services, we have developed and are operating our own CLAS correction information distribution system, which converts CLAS augmentation information into correction information for RTK and distributes it via a ground line.

Providing Total Solutions for Space Systems

International cooperation, human resources development, and industrial promotion

With our experience in developing satellite data utilization technology, we implement environmental monitoring, climate change measures and natural resource development through technical cooperation projects.

In addition, we provide training programs on satellite data utilization to engineers in developing countries. By implementing these activities, we aim to expand space utilization.



Japan Space Systems

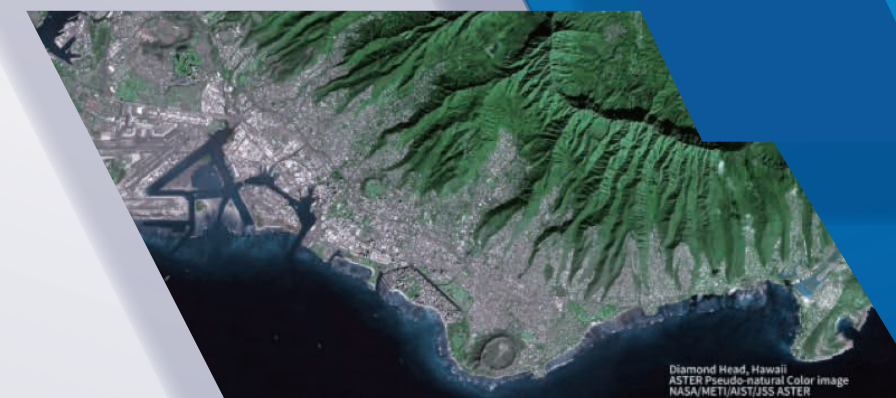
(J-spacesystems)



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History / Achievements

- 1981.** Established Earth Remote Sensing Data Analysis Center (ERSDAC)
- 1986.** Established Unmanned Space Experiment Free Flyer (USEF)
- 1986.** Established Japan Resources Observation System Organization (JAROS)
- 2007.** Established the Satellite Positioning Application Promotion Center (SPAC)
- 2012.** Established Japan Space Systems (J-spacesystems) by unifying ERSDAC, USEF and JAROS
- 2021.** Merged SPAC and began activities under a new structure



Japan Space Systems

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“Imagine the Earth”

“Japan Space Systems contributes to growth of the space industry and international cooperation.”

Introduction:

Japan Space Systems is a General Incorporated Foundation established in 2012 under the jurisdiction of the Ministry of Economy, Trade and Industry.

Our mission is to promote the development and utilization of space systems, foster human resources in the field, and contribute to the growth of the space industry.

About Us:

Our organization engages in a wide range of activities related to space systems, including research and development, international cooperation, human resources development, and industrial promotion. We are dedicated to providing total solutions for space systems by leveraging our experience in satellite data utilization technologies to implement environmental monitoring, climate change, resource development, and technical cooperation projects.

Our Services:

- Research and development of space systems and component technologies
- Promotion of international cooperation in the field of space systems
- Human resources development for space system utilization
- Space industry promotion and support for the growth of the industry
- Consulting services for space-related businesses and organizations

Our Achievements:

Over 40 years, we have contributed to the development and utilization of space systems in various ways. For example, we have developed Hyperspectral Imager SUite (HISUI), which was installed on the International Space Station for natural resource exploration.

We have also conducted research and development on Space Solar Power System (SSPS) and their component technologies. Furthermore, we implement and expand environmental monitoring, climate change, and resource development projects using satellite data utilization technologies.

Japan Space Systems Major Projects: From Past to Future

