"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.



History / Achievements

1981.	Established Earth Remote Sensing Data Ana
1986.	Established Unmanned Space Experiment F
1986.	Established Japan Resources Observation Sy
2007.	Established the Satellite Positioning Applica
2012.	Established Japan Space Systems (J-spacesys
2021.	Merged SPAC and began activities under a

Japan Space Systems

Address: 3-5-8 Shibakoen, Minato-ku, Tokyo 105-0011 Japan

URL : http://www.jspacesystems.or.jp/en_/

Japan Space Systems

(J-spacesystems)



alysis Center (ERSDAC)

Free Flyer (USEF)

ystem Organization (JAROS)

ation Promotion Center (SPAC)

stems) by unifying ERSDAC, USEF and JAROS

new structure







"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**



Phased Array-type L-band Synthetic Aperture Radar Data is available from the satellite data platform "Tellus".



EXPRESS 1990-1996

1990s

SFU

ace Flver Uni

veloped and experimented petween 1986 and 1996

'The unit is currently on display at the National useum of Nature and Science, Tokyo.'





acquired data on re-entry.

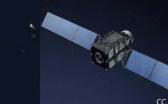


dvanced Spaceborne Thermal Emission and Reflection radiometer A sensor for resources exploration operated under the international oint project between the former Ministry of International Trade and Industry of Japan and the National Aeronautics and Space Administration (NASA) "Onboard the TERRA satellite" Data is distributed free of charge through the ASTER search site (MADAS) since 1987.



JERS-1/OPS&SAR 1985-1998 Japanese Earth Resources Satellite-1/OPS&SAR Developed and operated.





ASER 2003-2010

Advanced Satellite Engineering Research project The satellite bus components developed in this project were used in the "Michibiki 1-4" satellites launched in 2017



2010s



Hyperspectral Imager SUIte Starting from October 12th, 2022,



SERVIS 1999-2018

Space Environment Reliability Verification Integrated System Engaged in development and operation.



EXPeriment RE-entry Space System Engaged in development experiments and

ASTER 1987- (currently in operation)

2000s





Unmanned Space Experiment Recovery System

USERS 1995-2007

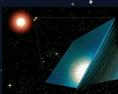
Developed and tested. "The returned capsule is currently on display at the National Museum of Nature and Science, Tokyo."

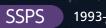
ARH 1992-2000

Advanced Robotic Hand system Developed and tested.









Space Solar Power System Under development as a sustainable energy system.

Development of lunar power

supply architecture

ASNARO-1 2006-2014

Advanced Satellite with New system ARchitecture for Observation 2006 – 2014 Developed. Currently operated by a private company



ALSET 2006-2014

Air Launch System Enabling Technology 2006 – 2014 Research and development aimed at reducing the cost of satellite launches and ensuring maneuverability.

International cooperation and uman resource development.

Development of satellite data utilization technologies and training of young engineers in developing countries.



resources (Madagascar)



Training of overseas human Development of Data Utilization Humar Technology (Site Survey)

