

Satellite Data Archive for Disaster Recovery Purpose

Report Number: R24EER49901

Subject Category: Space Technology

URL: <https://www.jss.jaxa.jp/en/ar/e2024/27069/>

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● Abstract

The data from the Earth observation satellites "ADEOS-II (Midori 2)", "ADEOS (Midori)", "JERS-1 (Fuyo 1)", "MOS-1 (Momo 1)", and "MOS-1b (Momo 1b)", which ceased orbital operations by the Japanese fiscal year 2023, are archived at JSS.

These historical satellite data are crucial for research that promotes the understanding of long-term Earth environmental changes. They are extremely important and must not be lost.

Ref. URL: https://www.jaxa.jp/projects/sat/index_j.html

● Reasons and benefits of using JAXA Supercomputer System

Earth Observation data Although these data are also provided via the Earth Observation Satellite Data Distribution System (G-Portal), in case of a major disruption of G-Portal, data can be recovered from JSS.

● Achievements of the Year

The following JAXA's Earth Observation satellite observation data is archived at JSS.

ADEOS-II/AMSR 7,430 files

ADEOS-II/GL1 28,820 files

ADEOS-II/GL2 16,282 files

ADEOS/AVM/1A 440,398 files

ADEOS/AVM/1B2 274,516 files

ADEOS/AVP/1A 94,160 files

ADEOS/AVP/1B2 58,097 files

ADEOS/OCTS 113,233 files

JERS-1/SAR 367,072 files

JERS-1/SWIR 31,794 files

JERS-1/VNIR 164,376 files
 MOS-1/MESSR 204,421 files
 MOS-1/MESSR 1,246,590 files
 MOS-1/MSR 9,794 files
 MOS-1/VTIR 12,860 files
 MOS-1b/MESSR 237,179 files
 MOS-1b/MESSR 1,698,450 files
 MOS-1b/MSR 8,154 files
 MOS-1b/VTIR 12,322 files

● Publications

N/A

● Usage of JSS

● Computational Information

Process Parallelization Methods	N/A
Thread Parallelization Methods	N/A
Number of Processes	1
Elapsed Time per Case	0 Second(s)

● JSS3 Resources Used

Fraction of Usage in Total Resources*¹(%): 0.01

Details

Computational Resources		
System Name	CPU Resources Used (core x hours)	Fraction of Usage* ² (%)
TOKI-SORA	0.00	0.00
TOKI-ST	0.00	0.00
TOKI-GP	0.00	0.00
TOKI-XM	0.00	0.00
TOKI-LM	0.00	0.00
TOKI-TST	0.00	0.00
TOKI-TGP	0.00	0.00
TOKI-TLM	0.00	0.00

File System Resources		
File System Name	Storage Assigned (GiB)	Fraction of Usage* ² (%)
/home	0.00	0.00
/data and /data2	102,400.00	0.49
/ssd	0.00	0.00

Archiver Resources		
Archiver Name	Storage Used (TiB)	Fraction of Usage* ² (%)
J-SPACE	27.81	0.09

*¹: Fraction of Usage in Total Resources: Weighted average of three resource types (Computing, File System, and Archiver).

*²: Fraction of Usage : Percentage of usage relative to each resource used in one year.

● ISV Software Licenses Used

ISV Software Licenses Resources		
	ISV Software Licenses Used (Hours)	Fraction of Usage* ² (%)
ISV Software Licenses (Total)	0.00	0.00

*²: Fraction of Usage : Percentage of usage relative to each resource used in one year.