

ALOS/PALSAR Data Processing, Archiving and Distributing

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● Responsible Representative

Shin-ichi Sobue, ALOS-2 Project, Space Technology Directorate I

● Contact Information

Osamu Ochiai ochiai.osamu@jaxa.jp

● Members

Shigeru Iguchi, Hidetoshi Hayasaka, Akiko Otomo, Takashi Goto, Osamu Ochiai,
Takashi Asama, Keiko Ishii, Hidenori Sakamoto, Jumpei Tsutsumi, Yukie Nakagawa

● Abstract

Process ALOS/PALSAR data to Analysis Ready Data (ARD) and distribute to users.

<http://global.jaxa.jp/projects/sat/alos2/index.html>

● Reasons for using of JSS2

In order for enhancing availability of JAXA's Earth observation data as Open and Free, it is necessary to process the ALOS/PALSAR data to Analysis Ready Data (ARD) and make them available to users as quick as possible.

● Achievements of the Year

In this Fiscal Year 2017, a feasibility study on transmitting some sample ALOS/PALSAR Level 0 data from Tsukuba Space Center to JSS2 and also processing the data to Level 1.0 and 1.5 in SORA-PP has successfully conducted.

In next Fiscal Year 2018, whole ALOS/PALSAR Level 0 data (700TB) will be transmitted and processed to Analysis Ready Data (ARD). The ARD will be archived in JSPACE and will be able to retrived and distributed to users.

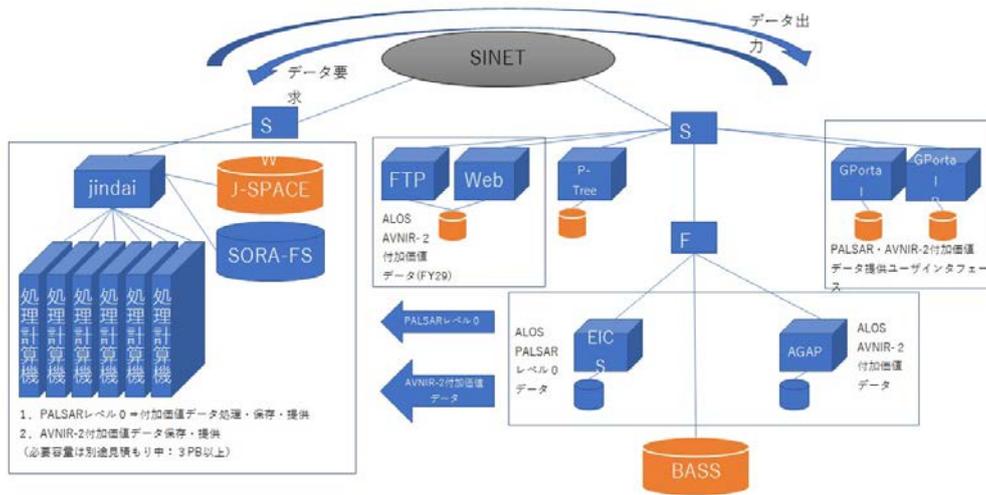


Fig.1 ALOS/PALSAR Data Processing Archiving and Distributing - System Overview

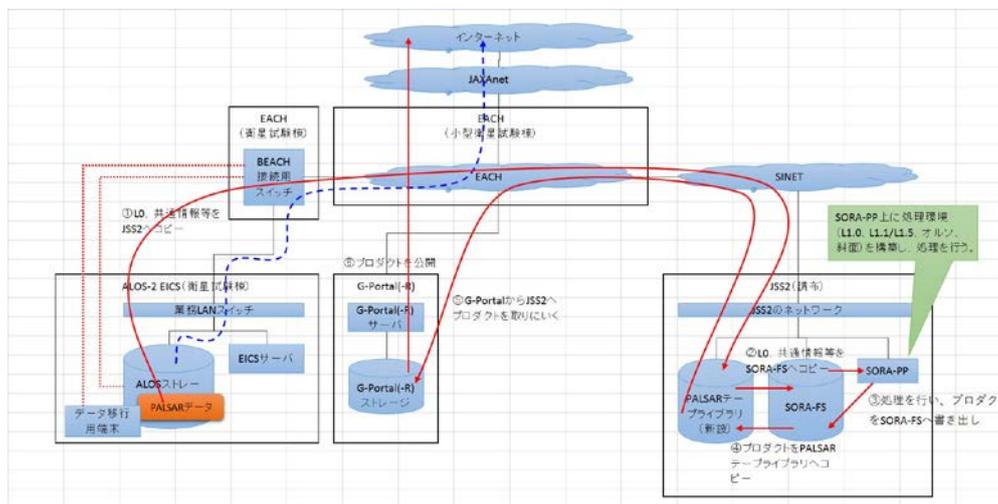


Fig.2 ALOS/PALSAR Data Processing Archiving and Distributing - Data Interface

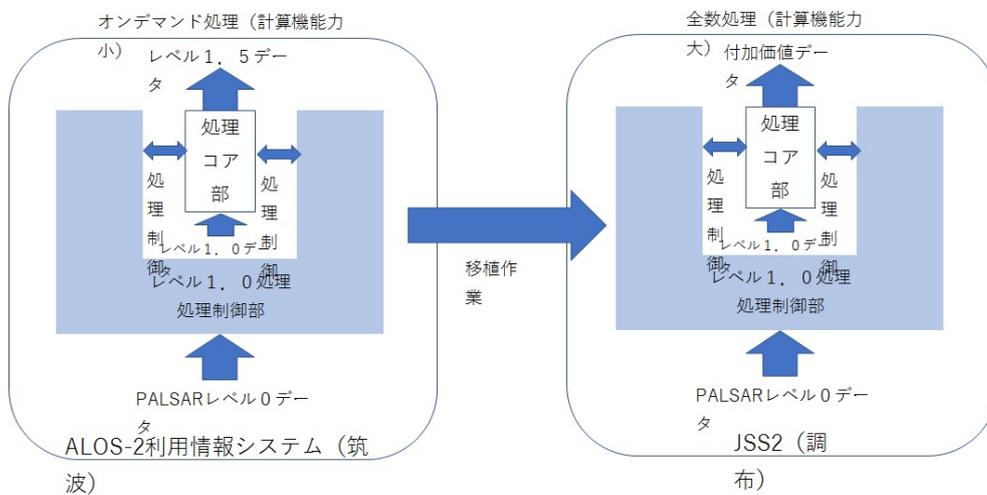


Fig.3 ALOS/PALSAR Data Processing Archiving and Distributing - Processing Module



Fig.4 ALOS/PALSAR Data Processing Archiving and Distributing System
Overview - Sample Processed Image

● **Publications**

N/A

● Usage of JSS2

● Computational Information

Parallelization Methods	N/A
Thread Parallelization Methods	N/A
Number of Processes	1
Elapsed Time per Case	2.00 hours

● Resources Used

Fraction of Usage in Total Resources*1 (%): 0.00

Details

Computing Resources		
System Name	Amount of Core Time (core x hours)	Fraction of Usage*2 (%)
SORA-MA	0.00	0.00
SORA-PP	137.34	0.00
SORA-LM	0.00	0.00
SORA-TPP	0.00	0.00

File System Resources		
File System Name	Storage assigned(GiB)	Fraction of Usage*2 (%)
/home	305.18	0.21
/data	11,196.14	0.21
/ltmp	14,648.44	1.10

Archiver Resources		
Archiver System Name	Storage used(TiB)	Fraction of Usage*2 (%)
J-SPACE	0.26	0.00

*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