ALOS PRISM dataset

1. IDENTIFICATION INFORMATION

Name	ALOS PRISM dataset
Metadata Identifier	ALOS_PRISM20230727082406-en

2. CONTACT

2.1 CONTACT on DATASET

Name	Remote Sensing Technology Center
E-mail	alos_od@restec.or.jp

2.2 CONTACT on PROJECT

3. DOCUMENT AUTHOR

Name	Satoko Miura
Organization	JAXA/Mission Operations System Office

4. DATASET CREATOR

Name	JAXA

5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2013-04-30

7. DATASET OVERVIEW

7.1 Abstract

The Panchromatic Remote-sensing Instrument for Stereo Mapping (PRISM) is a panchromatic radiometer with 2.5m spatial resolution at nadir. Its extracted data will provide a highly accurate digital surface model (DSM). PRISM has three independent optical systems for viewing nadir, forward and backward producing a stereoscopic image along the satellite's track. Each telescope consists of three ... mirrors and several CCD detectors for push-broom scanning. The nadir-viewing telescope

covers a width of 70km; forward and backward telescopes cover 35km each. The telescopes are installed on the sides of the optical bench with precise temperature control. Forward and backward telescopes are inclined +24 and -24 degrees from nadir to realize a base-to-height ratio of 1.0. PRISM's wide field of view (FOV) provides three fully overlapped stereo (triplet) images of a 35km width without mechanical scanning or yaw steering of the satellite. Without this wide FOV, forward, nadir, and backward images would not overlap each other due to the Earth's rotation.

7.2 Topic Category(ISO19139)

geoscientificInformation

imageryBaseMapsEarthCover

7.3 Temporal Extent

Begin Date	2006-01-24
End Date	2011-04-22

7.4 Geographic Bounding Box

North bound latitude	90
West bound longitude	-180
Eastbound longitude	180
South bound latitude	-90

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
		()
		()

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Land Surface > Land Use/Land Cover > Land Cover, Land Surface > Land Use/Land Cover > Land Resources, Land Surface > Land Use/Land Cover > Land Use Classes, Land Surface > Topography > Landforms, Land Surface > Topography >	GCMD_science

	Topographical Relief, Land Surface > Topography > Terrain Elevation, Land Surface > Topography > Contours, Spectral/ Engineering > Visible Wavelengths > Visible Imagery	

7.7.2 Keywords on Project

7.8 Online Resource

ALOS User Interface Gateway (Products order is available only for JAXA project members) : https://auig.eoc.jaxa.jp

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
CEOS format (BSQ)		

8. DATA PROCESSING

8.1 Data Processing (1)

8.1.1 General Explanation of the data producer's knowledge about the lineage of a dataset

There are following processing levels.

[Level 1A]

This is a PRISM raw data extracted from the Level 0 data, expanded and generated lines.

Ancillary information such as radiometric information and etc. required for the processing, superior to the Level 1B is added.

[Level 1B1]

This is the data that performed radiometric correction to Level 1A data, and added the absolute calibration coefficient.

Ancillary information such as radiometric information and etc. required for the processing, superior to the Level 1B2 is added.

[Level 1B2]

This is the data that performed geometric correction to Level 1B1 data.

The following correction options are available.

R: Geo-reference data

G: Geo-corded data

8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

10.2 Data Policy by the Project

11. LICENSE

12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

12.2 Acknowledge the Project

13. REFERENCES