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 **ALOS AVNIR2 dataset**

## 1. IDENTIFICATION INFORMATION

Name	ALOS AVNIR2 dataset
Metadata Identifier	ALOS_AVNIR220200401051219-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
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## 5. DATE OF THIS DOCUMENT

2020-04-01

## 6. DATE OF DATASET

creation : 2013-04-30

## 7. DATASET OVERVIEW

### 7.1 Abstract

The Advanced Visible and Near Infrared Radiometer type 2 (AVNIR-2) is a visible and near infrared radiometer for observing land and coastal zones. It provides better spatial land-coverage maps and land-use classification maps for monitoring regional environments. AVNIR-2 is a successor to AVNIR that was on board the Advanced Earth Observing Satellite (ADEOS), which was launched in August 1996. ... Its instantaneous field-of-view (IFOV) is the main improvement over AVNIR. AVNIR-2

also provides 10m spatial resolution images, an improvement over the 16m resolution of AVNIR in the multi-spectral region. Improved CCD detectors (AVNIR has 5,000 pixels per CCD; AVNIR-2 7,000 pixels per CCD) and electronics enable this higher resolution. A cross-track pointing function for prompt observation of disaster areas is another improvement. The pointing angle of AVNIR-2 is +44 and - 44 degree.

## 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 latitude bound	90
West longitude bound	-180
Eastbound longitude	180
South latitude bound	-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 > Contours, Land Surface > Topography > Landforms, Land Surface > Topography > Topographical	GCMD_science

## 7.7.2 Keywords on Project

## 7.8 Online Resource

ALOS User Interface Gateway (AUG) [Products order is only available 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 General Explanation of the data producer's knowledge about the lineage of a dataset

There are following processing levels.

[Level 1A]

This is an AVNIR-2 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

D: Rough DEM (Digital Elevation Model) correction: this option corrects the topographical influence to the areas where DEM was covered.

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DEM correction is effective only in Japanese region. Further, DEM correction error can occur with high pointing angles. Accuracy is not guaranteed since errors are complemented.

## 8.2 Data Processing

Data Source Citation Name	Description of derived parameters and processing techniques used
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## 9. DATA REMARKS

## 10. LICENSE

### 10.1 Data Policy by the Data Provider

### 10.2 Data Policy by the Project

## 11. DATA SOURCE ACKNOWLEDGEMENT

### 11.1 Acknowledge the Data Provider

### 11.2 Acknowledge the Project

## 12. DISCLAIMER

### 12.1 Disclaimer of Project

## 13. REFERENCES

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