AGURAM Ground Information Database

1. IDENTIFICATION INFORMATION

Name	AGURAM Ground Information Database
Edition	1
Abbreviation	AGURAM
DOI	doi:10.20783/DIAS.207 [https://doi.org/10.20783/DIAS.207]
Metadata Identifier	AGURAM_GI20230727070037-DIAS20221121113753-en

2. CONTACT

2.1 CONTACT on DATASET

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2.2 CONTACT on PROJECT

2.2.1 Data Integration and Analysis System

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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2014-01-02

7. DATASET OVERVIEW

7.1 Abstract

This dataset includes ground information derived by visual interpretation of satellite imageries taken by Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER). The dataset consists of geometries of boundaries between urban and non-urban. Although the ground information dataset is originally developed for the ASTER Global URban Area Map (AGURAM; see details at https://eco.geogrid.org/), it will be a source of training and validation for satellite remote sensing applications, such as land cover classification and urban area mapping.

7.2 Topic Category(ISO19139)

structure

7.3 Temporal Extent

Begin Date	2000-04-07
End Date	2008-03-31

7.4 Geographic Bounding Box

North bound latitude	-27.371628
West bound longitude	-158.027344
Eastbound longitude	158.642439
South bound latitude	60.392148

7.5 Grid

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

column		(deg)

7.6 Geographic Description

EPSG:4326

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Urbanization, Land Cover	GEO_COP

7.7.2 Keywords on Project

7.7.2.1 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS > Data Integration and Analysis System	No_Dictionary

7.8 Online Resource

GEO Grid, National Institute of Advanced Industrial Science and Technology of Japan : https://eco.geogrid.org/

You can download this dataset from DIAS. : https://data.diasjp.net/dl/storages/filelist/dataset:207

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification

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

1. Visual interpretation was performed with false color composite images of ASTER satellite imageries prepared for

development of the AGURAM dataset. Map scale of the visual interpretation was set to 1:10,000 or finer. For details

of the platform for visual interpretation, take a look at the reference below.

Kimijima et al., 2013, Crowdsourcing for urban area mapping.

http://www.geospatialworld.net/Paper/Application/ArticleView.aspx?aid=30462

2. Geometry data of the visual interpretation was converted to raster data by v.to.rast of GRASS GIS with a

resolution of 15 m to remove inconsistencies among and within geometries, such as geometry type (i.e. line and

polygon) and torsion.

http://grass.osgeo.org/grass65/manuals/v.to.rast.html

3. The raster data was converted to vector data by r.to.vect of GRASS GIS with smoothing option.

http://grass.osgeo.org/grass64/manuals/r.to.vect.html

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

10.2.1 Data Integration and Analysis System

If data provider does not have data policy, DIAS Terms of Service (https://diasjp.net/en/terms/) and DIAS Privacy Policy (https://diasjp.net/en/privacy/) apply.

If there is a conflict between DIAS Terms of Service and data provider's policy, the data provider's policy shall prevail.

11. LICENSE

12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

12.2 Acknowledge the Project

12.2.1 Data Integration and Analysis System

If you plan to use this dataset for a conference presentation, paper, journal article, or report etc., please include acknowledgments referred to following examples. If the data provider describes examples of acknowledgments, include them as well.

” In this study, [Name of Dataset] provided by [Name of Data Provider] was utilized. This dataset was also collected and provided under the Data Integration and Analysis System (DIAS), which was developed and operated by a project supported by the Ministry of Education, Culture, Sports, Science and Technology. ”

13. REFERENCES

Kimijima et al., 2013, Crowdsourcing for urban area mapping.

http://www.geospatialworld.net/Paper/Application/ArticleView.aspx?aid=30462