



Functional trait map of southeast Asia (Leaf area)

1. IDENTIFICATION INFORMATION

| | |
|---------------------|--|
| Name | Functional trait map of southeast Asia (Leaf area) |
| Edition | 1.0 |
| Metadata Identifier | GRENE_ei_EcoBiodiv_TraitMap_SE_Asia_Leaf_Area20230727091856-en |

2. CONTACT

2.1 CONTACT on DATASET

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2.2 CONTACT on PROJECT

3. DOCUMENT AUTHOR

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4. DATASET CREATOR

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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2016-03-01

7. DATASET OVERVIEW

7.1 Abstract

This data contains leaf area map of southeast Asia. For the details of data provision and term of use, please contact us by e-mail.

7.2 Topic Category(ISO19139)

environment

biota

7.3 Temporal Extent

| | |
|--------------------------|---|
| Begin Date | 1998-04-01 |
| End Date | 2000-03-31 |
| Temporal Characteristics | The duration of satellite images which used for creation of original vegetation map were acquired |

7.4 Geographic Bounding Box

| | | |
|---------------------|-------|---------------|
| North latitude | bound | 29.659077285 |
| West longitude | bound | 87.682992715 |
| Eastbound longitude | | 155.004410515 |
| South latitude | bound | -12.109773175 |

7.5 Grid

| Dimension Name | Dimension Size (slice number of the dimension) | Resolution Unit |
|----------------|--|-----------------|
| row | 42 | 4678 (deg) |
| column | 67 | 7540 (deg) |

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

| Keyword Type | Keyword | Keyword thesaurus Name |
|--------------|--|------------------------|
| theme | Ecosystems, Biodiversity | GEOSS |
| theme | Biosphere > Terrestrial Ecosystems > Forests, Biosphere > Terrestrial Ecosystems > Alpine/Tundra, Biosphere > Terrestrial Ecosystems > Montane Habitats, Biosphere > Terrestrial Ecosystems > Shrubland/Scrub, Biosphere > Ecological Dynamics > Community Dynamics > Biodiversity Functions, Land Surface > Land Use/Land Cover > Land Resources, Biosphere > Terrestrial Ecosystems > Wetlands > Peatlands, Biosphere > Terrestrial Ecosystems > Wetlands > Swamps | GCMD_science |
| theme | BIOGEOSCIENCES > Ecosystems, structure and dynamics, BIOGEOSCIENCES > Biodiversity | AGU |
| theme | Biodiversity, Ecosystem Function/Dynamics | GEO_COP |
| place | Asia > Eastern Asia > Japan | Country |
| discipline | Leaf area | No_Dictionary |

7.7.2 Keywords on Project

7.8 Online Resource

7.9 Data Environmental Information

Value of 0 denotes sea/water/no vegetation pixel. Value of -1.7e+308 denotes NoData.

7.10 Distribution Information

| name | version | specification |
|------|---------|---------------|
| TIFF | 6.0 | GeoTIFF |

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

Two vegetation maps of insular and continental southeast Asia (Stibig et al. 2002; Stibig and Beuchle 2003) were combined to make a vegetation map of whole southeast Asia. To classify secondary

vegetation by its primary vegetation type, primary vegetation type of pixels denoting secondary vegetation were estimated by a statistical model in which climate condition (WorldClim, Hijmans et al. 2002) and soil type (Harmonized World Soil Database, FAO/IIASA/ISRIC/ISSCAS/JRC, 2012) are used as predictor variable. The leaf lignin concentration map was made by assigning values of leaf area ($\log_{10}(\text{cm}^2)$) for each pixel of this new vegetation map based on their vegetation type.

8.1.2 Data Source

| Data Source Citation Name | Description of derived parameters and processing techniques used |
|--|--|
| Stibig, Beuchle, and Janvier (2002) Forest cover map of insular southeast Asia at 1:5 500 000 derived from SPOT-VEGETATION satellite images. TREES Publication Series D: Thematic outputs n° 3. | |
| Stibig and Beuchle (2003) Forest cover map of continental southeast Asia at 1:4 000 000 derived from SPOT4-VEGETATION satellite images. TREES Publication Series D: Thematic outputs n° 4. | |
| Hijmans, R.J., S.E. Cameron, J.L. Parra, P.G. Jones and A. Jarvis, 2005. Very high resolution interpolated climate surfaces for global land areas. International Journal of Climatology 25: 1965-1978. | |
| FAO/IIASA/ISRIC/ISSCAS/JRC, 2012. Harmonized World Soil Database (version 1.2). FAO, Rome, Italy and IIASA, Laxenburg, Austria. | |

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

