Map of species richness of honey source plants

1. IDENTIFICATION INFORMATION

Name	Map of species richness of honey source plants
Edition	1.0
Metadata Identifier	GRENE_ei_EcoBiodiv_ESMap_Japan_Honey20230727091623-en

2. CONTACT

2.1 CONTACT on DATASET

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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2015-10-15

7. DATASET OVERVIEW

7.1 Abstract

Map of estimated species richness of honey producing plants per 100m^2 all over Japan. 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	1993-01-01
End Date	1999-01-01
Temporal Characteristics	Duration in which source vegetation map was created.

7.4 Geographic Bounding Box

North bound latitude	45.55722
West bound longitude	122.9336
Eastbound longitude	153.9864
South bound latitude	20.42528

7.5 Grid

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Ecosystems, Biodiversity, Agriculture	GEOSS
theme	Biosphere > Terrestrial Ecosystems > Forests, Biosphere > Terrestrial Ecosystems > Agricultural Lands, Biosphere > Terrestrial Ecosystems > Alpine/Tundra, Biosphere > Terrestrial Ecosystems > Grasslands, Biosphere > Terrestrial Ecosystems > Montane Habitats, Biosphere > Terrestrial Ecosystems > Shrubland/Scrub, Biosphere > Terrestrial Ecosystems > Urban Lands, Biosphere > Terrestrial Ecosystems > Wetlands, Biosphere > Ecological Dynamics > Community Dynamics > Biodiversity Functions, Land Surface > Land Use/Land Cover > Land Resources,	GCMD_science
theme	BIOGEOSCIENCES > Ecosystems, structure and dynamics, BIOGEOSCIENCES > Biodiversity	AGU
theme	Biodiversity, Ecosystem Function/Dynamics	GEO_COP
place	Asia > Eastern Asia > Japan	Country
theme	Ecosystem Services	No_Dictionary

7.7.2 Keywords on Project

7.8 Online Resource

7.9 Data Environmental Information

Species richness map in which estimation was done for all polygons of vegetation map and the map in which estimation was done for each 1km grid are available.

7.10 Distribution Information

name	version	specification
ESRI GeoDataBase	ArcGIS 10.3	

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

Using the 6th and 7th Natural Environment Conservation Fundamental Observation data (Ministry of the Environment Government of Japan) and potential honey source species database (Kurokawa et al. in preparation), we calculated species richness of honey source plants for each observation unit. Climate data (Mesh climate data of National Numerical Information by Ministry of Land, Infrastructure, Transport and Tourism of Japan) and elevation (10m digital elevation model in Fundamental Map Information by Geospatial Information Authority of Japan) were assigned based on coordinates of the observation units by GIS. Species richness was modeled by climate, elevation and

vegetation of the observation units. Using this model and vegetation map at ca. 1996 (The 5th Natural Environment Conservation Fundamental Observation vegetation map), potential species richness of honey source plants (number of species/m^2) was spatially interpolated all over the Japan.

8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used
Mesh climate data of National Numerical Information	Mesh climate data of National Numerical Information by Ministry of Land, Infrastructure, Transport and Tourism of Japan
10m digital elevation model in Fundamental Map Information	10m digital elevation model in Fundamental Map Information by Geospatial Information Authority of Japan
The 6th and 7th Natural Environment Conservation Fundamental Observation	Vegetation data from the 6th and 7th Natural Environment Conservation Fundamental Observation data by Ministry of the Environment Government of Japan
The 5th Natural Environment Conservation Fundamental Observation	Vegetation map from the 5th Natural Environment Conservation Fundamental Observation by Ministry of the Environment Government of Japan

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

Oguro, Aiba, and Nakashizuka (2016). Observation of forest ecosystem and mapping ecosystem services visualizing ecosystem services by combining several data sets (in Japanese). Biological Science, Heredity, 70(1), 22-27.