JRC Dataset

Maximum habitat suitability map of Prunus avium (2006, FISE, RDS-MHSv0-3-2)

Description:
This dataset series shows the Maximum Habitat Suitability (MHS, also known as survivability) map of Prunus avium (raster format: geotiff). The survivability map is provided for Europe (EU28 plus part of other countries within the spatial extent), computed using the FISE harmonised European dataset of taxa presence/absence (based on the integration and harmonisation of the datasets by European National Forestry Inventories; BioSoil; Forest Focus/Monitoring; EUGIS; GeneticDiversity). The survivability is estimated as the maximum extension of habitat suitability by means of statistical multivariate similarity analysis (Relative Distance Similarity, RDS) of the bio-climatic conditions where the taxon is observed in Europe (RDS Maximum Habitat Suitability, RDS-MHS). Available years: 2006. The maps are available in the Forest Information System for Europe (FISE). FISE is run by the European Commission, Joint Research Centre. See the field Lineage for further information. When using these data, please cite the relevant data sources. A suggested citation is included in the following: - Various authors, 2016. Prunus avium in Europe: an outline on distribution, habitat, importance and threats. In: Online European Atlas of Forest Tree Species. FISE Comm. Publications Office of the European Union. pp. e01491d+. (Under review: please, check the current status at: https://w3id.org/mtv/FISE-Comm/v01/e01491d) - de Rigo, D., Caudullo, G., Houston Durrant, T., San-Miguel-Ayanz, J., 2016. The European Atlas of Forest Tree Species: modelling, data and information on forest tree species. In: San-Miguel-Ayanz, J., de Rigo, D., Caudullo, G., Houston Durrant, T., Mauri, A. (Eds.), European Atlas of Forest Tree Species. Publ. Off. EU, Luxembourg, pp. e01aa69+. https://w3id.org/mtv/FISE-Comm/v01/e01aa69

Keywords:
Europe, FISE, Habitats and biotopes, Model: Relative Distance Similarity (RDS-MHS), Modelled quantity: Maximum Habitat Suitability (MHS), Modelling paradigm: Geospatial Semantic Array Programming (GeoSemAP), Taxonomy division type: Broadleaved, Taxonomy family: Rosaceae, Taxonomy genus: Prunus, Taxonomy species: Prunus avium, forest, forest resource, mathematical analysis, modelling, natural resource, scientific research, spatial distribution, tree

Related resources:

Data access

[Download] Data Download Service
Data download service for maps of Prunus avium survivability (maximum extension of habitat suitability) for the current situation (year 2006; forest tree species data: FISE)
https://w3id.org/mtv/FISE/map-data-MHS/v0-3-2/internet/Prunus-avium

[VIEW] [WMS] INSPIRE View Service
INSPIRE compliant view service for maps of Prunus avium survivability (maximum extension of habitat suitability) for the current situation (year 2006; forest tree species data: FISE)
https://w3id.org/mtv/FISE/map-MHS/v0-3-2/internet/Prunus-avium

Additional information:

Last Modified: 2014-01-08
Issue date: 2016-08-01
Landing page: https://w3id.org/mtv/FISE-Comm/v01/e01491d/map-MHS
Temporal coverage: From: 2006-01-01 – To: 2006-12-31
Language: English
Data theme(s): Environment
EuroVoc domain(s): 52 ENVIRONMENT; 56 AGRICULTURE, FORESTRY AND FISHERIES; 64 PRODUCTION, TECHNOLOGY AND RESEARCH
EuroVoc concept(s): biotope; forest; scientific research; tree
Identifier: http://data.europa.eu/89h/c3d09974-9247-4809-bf80-ab464da5cd0e
Geographic information:

Lineage: The data refer to the European Atlas of forest Tree Species [1]. The survivability model (or maximum habitat suitability model) relies on statistical multivariate similarity analysis (Relative Distance Similarity, RDS) of the bio-climatic conditions where the taxon is observed in Europe (RDS Maximum Habitat Suitability, RDS-MHS) [2-5] as implemented by using the Mastrave modelling library [6,7] within the GNU Octave computational environment [8] and the GDAL library [9] within the Python computational environment [10]. Forest tree species presence/absence information has been used from the harmonised datasets in the Forest Information System for Europe (FiSE). 

References: 


Geographic bounding box: 67.658° N, 74.359° E, 28.922° S, -36.684° W  
Coordinate Reference System: ETRS89 / LAEA Europe