

JRC Dataset

European map of forest above and below-ground carbon

Description:

This is a pan-European map of living forest above-ground carbon. The map was implemented following IPCC Tier 1 method. Maps of forest biomass stock and carbon are relevant for quantifying terrestrial carbon storage and carbon sinks as well as for estimating potential emissions from land cover changes (afforestation, deforestation, reforestation), forest fragmentation and biotic (pests) and abiotic (e.g. forest fires, windstorms) disturbances.

Keywords:

Europe, Species distribution, forest, forest resource, mathematical analysis, modelling, natural resource, scientific research, spatial distribution, tree

Related resources:

Publications

A European map of living forest biomass and carbon stock - Executive report

Barredo Cano J, San-Miguel-Ayanz J, Caudullo G, Busetto L. A European map of living forest biomass and carbon stock - Executive report . EUR 25730. Luxembourg (Luxembourg): Publications Office of the European Union; 2012. JRC77439

DOI:[10.2788/780](https://doi.org/10.2788/780)

Additional information:

Last Modified: 2014-10-15

Issue date: 2014-10-15

Landing page: <http://forest.jrc.ec.europa.eu/activities/forest-ecosystem-services>

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): biodiversity; forest; scientific research; tree

Identifier: <http://data.europa.eu/89h/8dcd61eb-c97f-4c92-886f-5027bad233ed>

Geographic information:

Lineage: The map relies of the IPCC Tier 1 method and represents spatially-explicit biomass and carbon stock on forested land disaggregated at 1 km grid size. IPCC Tier 1 method applied to forest biomass requires two types of input data. First, maps of forest types (CORINE land cover) and the map FAO's map of Global Ecological Zones for the Global Forest. Secondly, several average amounts and factors sourced from the IPCC report on Guidelines for National Greenhouse Gas Inventories (IPCC, 2006).

Geographic bounding box: 67.658° N, 74.359° E, 28.922° S, -36.684° W

Coordinate Reference System: ETRS89 / LAEA Europe