

Management related pressures on forest ecosystems, Dec. 2017

Forest management involves various degrees of human intervention to safeguard the forest ecosystem and its functions as well as the exploitation of forest resources. While the objectives of management vary widely and include the protection of resources in protected forests and nature reserves, the primary objective is mostly the production of wood products.

Although sustained yield forestry continues to be widely practised, there is an increasing trend towards the management of forests as ecological systems with multiple economic benefits and environmental values, ensuring that benefits meet present as well as future generations' needs.

In order to assess forest management intensity in Europe an indicator based on three data sources has been developed: a) Fast track ecosystem capital accounts (forest growth & harvest – disaggregated to 1km grid), b) Potential forest management (gradient of intensity of intervention with the natural processes in a forest) c) Forest fragmentation (forest ecosystem network connected by forest bridges – GUIDOS Morphological Spatial Pattern Analysis).

Each input dataset has been assessed separately in a first step in terms of pressures on forest ecosystems which are the result of the specific management, use or respectively state of the forest patch. The overall management related pressure is then derived by crossing the relative pressures by each input and evaluating the constellation of the input representative factors.

This updated version of the management related forest pressures is based on the first assessment done in framework of the ETC-SIA report "Land use and land management related pressures on agricultural and forest ecosystems" (ETC-SIA, Task 1.8.4.3 Ecosystem pressures).

Simple

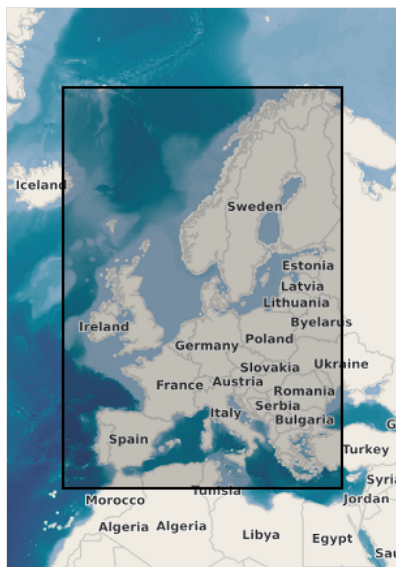
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Point of contact

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GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Land use Habitats and biotopes
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> forestry natural area forest

	<ul style="list-style-type: none"> • ecosystem • forest resource • forest management • forest ecosystem • forest conservation
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • Latvia • Bulgaria • Malta • Hungary • Czechia • Romania • Lithuania • EU15 • Poland • Estonia • Slovenia • Slovakia
Spatial scope	<ul style="list-style-type: none"> • European
EEA Management Plan	<ul style="list-style-type: none"> • 2019 1.7.8
EEA topics	<ul style="list-style-type: none"> • Land use • Biodiversity • Forests and forestry
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Access constraints	Other restrictions
Other constraints	no limitations to public access
Spatial representation type	Grid
Distance	1 1 km
Language of dataset	English
Topic category	<ul style="list-style-type: none"> • Environment



Begin date	2012-01-01		
End date	2017-12-10		
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OnLine resource	Protocol	Linkage	Name
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	WWW:URL	https://sdi.eea.europa.eu/data/26a23284-755f-4275-a2f2-ddefd5d60aef	Direct download
	OGC:WMS	https://forest.discomap.eea.europa.eu/arcgis/services/Forest/forest_management_pressures/MapServer/WMServer?request=GetCapabilities&service=WMS	0
OnLine resource	Protocol	Linkage	Name
	ESRI:REST	https://forest.discomap.eea.europa.eu/arcgis/rest/services/Forest/forest_management_pressures/MapServer	
Hierarchy level	Dataset		

Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	<p>The basic production steps are:</p> <ol style="list-style-type: none"> 1. Categorization of potential forest management approach 2. Comparison of forest harvest and regrowth and classification in terms of sustainability 3. Evaluation forest patch size and connectivity 4. Compilation of the three sub-indicators into the management related forest pressure indicator
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For a detailed methodology please consult the report HNVForest_forest_pressures_reprocessing2017_data_description_20171030.pdf provided with the dataset.

Data sets used:

Tree species map (1 km grid): EFI (http://www.efi.int/portal/virtual_library/information_services/mapping_services/tree_species_maps_for_european_forests/)

Potential forest management (1 km grid): Hengeveld (<http://opendap.cgi-systems.nl/thredds/catalog/projecten/EuropeanForest/FMAMap/catalog.html>)

Fast track ecosystem capital accounts (1 km grid): UMA

HRL forest 2012 – tree cover density (20m grid): COPERNICUS

JRC GUIDOS Morphological Spatial Pattern Analysis (MSPA) – Forest patch connectivity (input: HRL Forest 2012 – tree cover density - 20m grid): JRC / UMA

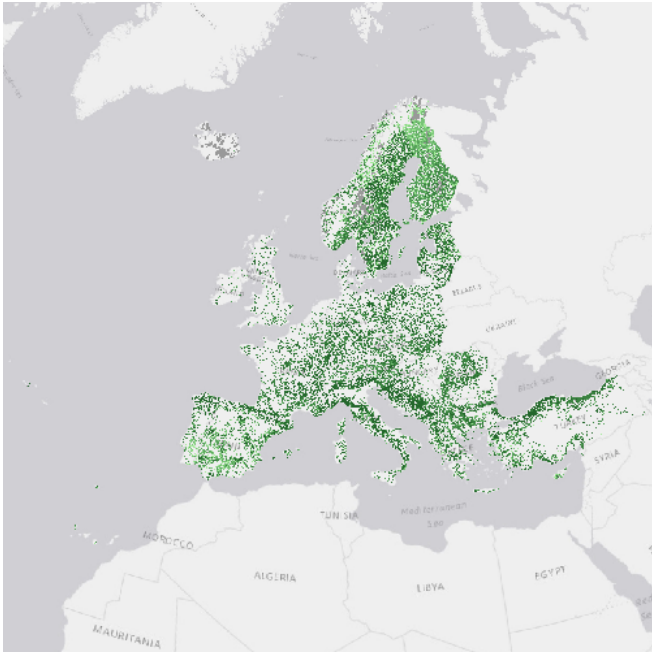
Source

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Metadata

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