EEA geospatial data catalogue

European catchments and Rivers network system (Ecrins), natural sub basins of Europe - version 0, Dec. 2011

The natural sub basins of Europe is a feature dataset which subdivides natural basins bigger than 40,000 square Kilometres into sub catchments of a surface between 10,000 square Kilometres and 40,000 square Kilometres. Sub basins are defined using the catchment area of big tributaries as much as possible, and subdividing the main course of the river into upper, medium, and lower parts of the basin. The target is having a spatially homogeneous, but still with hydrological meaning units. These subdivisions are nested when river basins are big and tributaries drain a surface bigger than 40,000 square Kilometres, which in the case of Danube and Volga makes up to 3 levels of sub basins.

Simple

Date (Creation)	2011-12-31
Edition	00
Citation identifier	eea_v_3035_250_k_ecrins-sub-basins_p_1990-2006_v00_r00
Citation identifier	DAT-120-en
Point of contact	**Organisation name** / **Individual name** / **Electronic mail address** / **Role** European Environment Agency / info@eea.eur info@eea.europa.eu / Point of contact European Environment Agency / info@eea.eur info@eea.europa.eu / Custodian
Maintenance and update frequency	Irregular
GEMET - INSPIRE themes, version 1.0	• Hydrography
Keywords	
Keywords	
GEMET	• hydrography
EEA Management Plan	• 2012 1.4.1
	• Water
EEA topics	
Use limitation	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).
Access constraints	Other restrictions
Other constraints	no limitations to public access

Spatial representation type	Vector
Denominator	250000
Language of dataset	English
Character set	UTF8
Topic category	• Inland waters

73.50	N	26.50	S	53.80	E	-18.70	W

Begin date	1990-01-01
End date	2006-12-31
CRS identifier	EPSG:3035
Distribution format	• SHP ( )

OnLine resource

No information provided.

Hierarchy level	Dataset

Conformance result

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

Statement	The natural sub basins layer is derived from ECRINS FECs. The process for creating them consists of a semi-automated procedure by which first FECs belonging to basins bigger than 40,000 square Kilometres are selected. Inside that basin, tributaries to the main river with a drainage surface bigger than 10,000 square Kilometres are taken as separate sub basins. If the area of an individual sub basin is bigger than 40,000 square Kilometres, then it is further subdivided as a normal basin. This loop continues until there is no tributary left with a surface bigger than 40,000 square Kilometres. In big river basins, nested subdivisions occur when the resulting sub basin divided using main tributaries happen to be bigger than 40,000 square Kilometres. The main course of the river after removing tributaries can still have a surface bigger than 40,000 square Kilometres. In such case, it is further subdivided by manually selecting the last FEC downstream of the upper sub basin. The selection is made taking into consideration the shape of the basin, the proximity of other subdivision because of big tributaries, the presence of tributaries below the 10,000 square Kilometres threshold, and the surface upstream not being subdivided yet to be bigger than 10,000 and smaller than 40,000 square Kilometres. This classification is done editing FECs' attribute SB. After that they are dissolved with multipart option, and using the field SB, into the sub basins.

Metadata

File identifier	48545018-0505-494c-9ee1-d9ae792d4cf8 XML
Metadata language	English
Character set	UTF8

Hierarchy level	Dataset
Date stamp	2021-04-21T08:08:36.81Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0

Metadata author

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Overviews

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