



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

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	European Environment Agency		sdi@eea.europa.eu	http://www.eea.europa.eu	Point of contact
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EEA topics	<ul style="list-style-type: none"> Water 				
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Access constraints	Other restrictions				
Other constraints	no limitations to public access				
Spatial representation type	Vector				
Denominator	250000				
Language of dataset	English				
Character set	UTF8				

- Inland waters

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Begin date	1990-01-01		
End date	2006-12-31		
Coordinate reference system identifier	EPSG:3035		
Distribution format	<ul style="list-style-type: none"> SHP () 		
OnLine resource	Protocol EEA:FILEPATH WWW:URL	Linkage https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_3035_250_k_ecrins-sub-basins_p_1990-2006_v00_r00/ https://sdi.eea.europa.eu/data/48545018-0505-494c-9ee1-d9ae792d4cf8	Name Direct download
Hierarchy level	Dataset		

Conformance result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	<p>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.</p> <p>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.</p> <p>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.</p>
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Metadata

File identifier	48545018-0505-494c-9ee1-d9ae792d4cf8 XML		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2025-01-15T21:03:41.841967Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	<div>Organisation name</div> <div>European Environment Agency</div>	<div>Individual name</div>	<div><div>Electronic mail address</div><div>sdi@eea.europa.eu</div><div>Website Role</div><div>Point of contact</div></div>

Overviews



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