

European catchments and Rivers network system (Ecrins) - version 1, Jun. 2012

Ecrins is acronym for European catchments and Rivers network system. It is a geographical information system of the European hydrographical systems with a full topological information. Ecrins is a composite system made from the CCM developed by the JRC, Corine land Cover, WFD reporting elements, etc.

It is organised from a layer of 181,071 "functional elementary catchments (FECs)" which average size is ~62 km², fully connected with explicit identifier (ID) relationships and upstream area. Catchments are grouped as sub-basins, river basin districts (actual and functional to meet hydrographical continuity).

The catchments are as well organised according to their sea shore of emptying to meet Marine Strategy delineations. Catchments are drained by 1,348,163 river segments, sorted as "main drains" (connecting together the FECs) and secondary drains (internal to a FEC). river segments mimic the natural drainage, however fulfilling the topological constraint of "0,1 or 2 upstreams, single or 0 downstream". Each segment is populated with distance to the sea, to ease further processing. They are connected to elementary catchments and nodes documented with altitude.

Segments are as well documented with a "dummy river code", fully populated that earmark each segment with the most distant to the outlet in each drainage basin and, everywhere this has been possible, with a "true river" ID based on river naming.

A layer of lakes and dams has been elaborated. Lakes polygons (70,847) are taken from Corine Land cover, WFD Art. 13 and in some cases, from CCM "water layer". Lakes inlets and outlets are set with the segment ID and where relevant, the dams making the lake is documented. All lakes which depths and volume was found have been updated.

Version 1.0 here presented still contain some topological errors (e.g. incorrect segment branching), because inaccurate geometry. They are noted and a correction procedure is underway.

Simple

Date (Creation)	2012-06-08		
Date (Publication)	2012-06-13		
Edition	01.00		
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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	<ul style="list-style-type: none"> Hydrography 		
Keywords			
Keywords			
GEMET	<ul style="list-style-type: none"> hydrography 		
Spatial scope	<ul style="list-style-type: none"> European 		

EEA topics	<ul style="list-style-type: none"> • Water
EEA Management Plan	<ul style="list-style-type: none"> • 2012 1.4.1
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	<ul style="list-style-type: none"> • Inland waters



Begin date	1990-01-01
End date	2006-12-31
CRS identifier	EPSG:3035
Distribution format	<ul style="list-style-type: none"> • Spatialite () • Microsoft Access (.mdb, .accdb) ()

OnLine resource

No information provided.

Hierarchy level	Dataset
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Conformance result

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

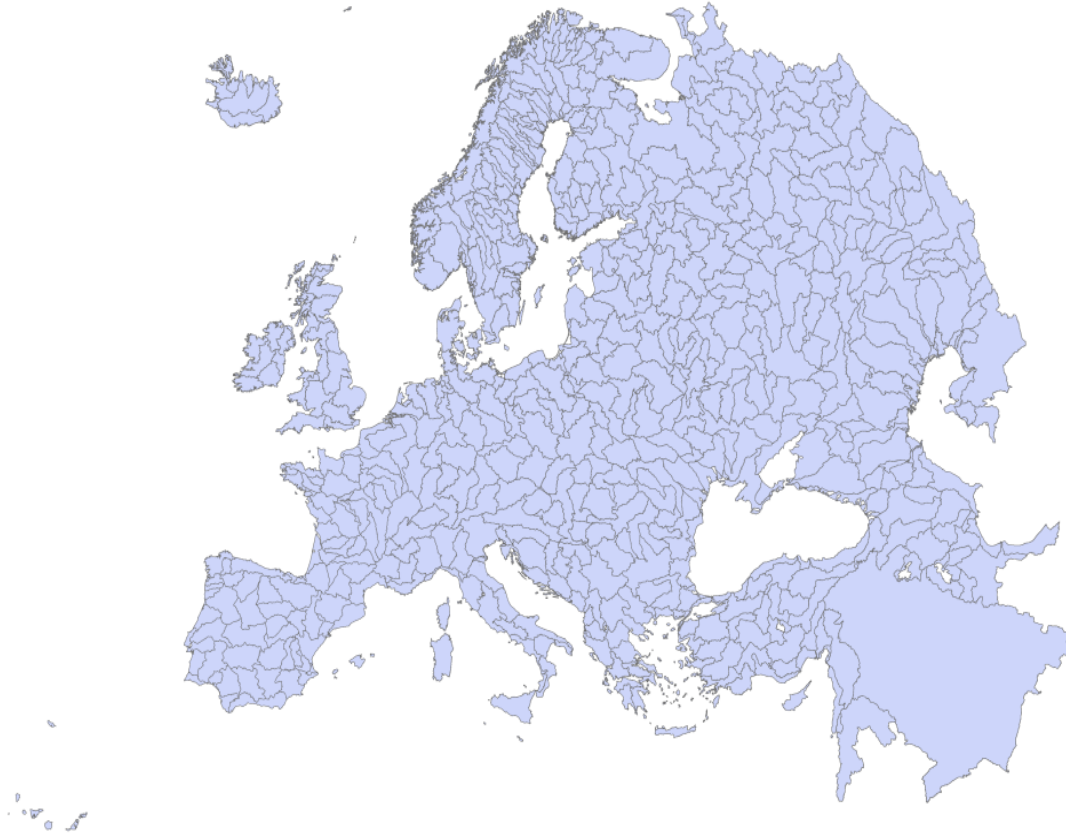
Statement	Product is based on CCM River and Catchment Database, version 2.1 (vector, lines and points data sets). Coastal definition has been substituted by SeaVox se delineation adjusted to CCM shore line. Lakes polygons are taken from Corine land Cover 2006, XFD Art 13 deliveries and to a lesser extend from CCM water layer. Lakes relevance has been checked against ERM Euroregional maps(layers 2010). River names taken from many sources: ERM, Wikipedia, WFD deliveries and water bodies deliveries, EEA data base on dams, etc. Dams have been taken from several sources: Icold, French ministry of energy, public web sites. Their position has been found by the EEA using a web based tool applied to GoogleEarth, completed by Eionet deliveries. Corrections are proposed by innumerable source, of which EU member states (as provision of the water bodies) and consultants, primarily Pöyry during systematic calculation of discharges at segment level.
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Metadata

File identifier	88bc8c56-55d6-45a4-91bf-a03843b3e3e7 XML
Metadata language	English
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Hierarchy level	Dataset
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Metadata standard name	ISO 19115/19139

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Overviews



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