



Special Map Mosaic
Printed on the occasion of the
International Year of Planet Earth 2008




As a contribution of the European Geological Surveys to the International Year of Planet Earth (IYPE) and on the occasion of the International Geological Congress in Oslo 2008, a mosaic of map sheets on the scale of the International Hydrogeological Map of Europe at the scale of 1 : 1 500 000 has been produced. This map mosaic is being published as a draft, on one handy sheet at the reduced scale of 1 : 5 000 000 with the financial assistance of EuroGeosurveys (EGS), the association of European Geological Surveys. It displays, in a homogeneous representation over the whole of Europe and the adjacent countries to the East, the hydrogeological conditions of the geological units at and below the land surface.

The printed sheets of the map series have been technically reduced in scale. By the mere technical reduction of the size of maps the full content of individual map sheets (printed or under print) have been fully conserved. Hence, though the strong reduction in scale does not always allow to grasp the rich groundwater related information directly from this mosaic, the special edition allows to appreciate the hydrogeological conditions across the whole European continent.

General Legend (simplified)

Porous aquifers

-  highly productive  area of seawater intrusion
 moderately productive large freshwater lake

Fissured aquifers including karst

-  highly productive
 moderately productive
 Ⓢ Draft, not printed yet.

Insignificant aquifers

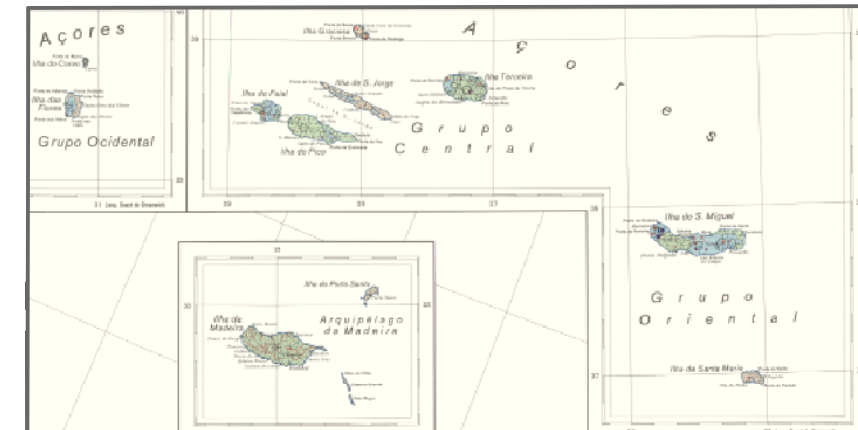
- local and limited groundwater
essentially no groundwater

Country borders have been added, based on UN recommendations (borderlines, UN 2006), and are shown as white lines on the map mosaic.



Map projection:

Equidistant Conic, longitude of central meridian 15° 20' 14" E, standard parallel 40° N and 60° N, latitude of origin 29° 27' N, spheroid WGS84.



General explanation

This special edition of the International Hydrogeological Map of Europe, at the scale 1 : 5 000 000, is derived from the International Hydrogeological Map of Europe, at the scale 1 : 1 500 000 (IHME1500), as a map mosaic.

The Atlas Italiae, Geological Map of Europe, contains 500,000 km² of general geological information comprising 25 sheets, covering the European continent and parts of the Near East. The national contributions to the map series were compiled by hydrogeologists and experts in related sciences of the countries concerned under the leadership of the German Hydrogeological Institute of the University of Bonn. The project is supported by the Commission for the Geological Map of the World (CGMW). The scientific, editorial work and the production of the map series were coordinated by the German Hydrogeological Institute of the University of Bonn, the Geographisches Institut und Rheinische (BGR) and by the United Nations Educational, Scientific and Cultural Organization (UNESCO). These organizations are responsible for the cartography, printing and publication of the map sheets and the production of the map series. The map series is available in German, English, French, Italian and Spanish, and without regard to political boundaries. For better understanding of this special edition the national borders are shown in the map series. The map series is available in a hard copy and on a CD-ROM. The CD-ROM contains a more detailed hydrogeological mapping. The small scale of the map allows the representation of only a limited amount of information. The map series is available in a hard copy and on a CD-ROM. The CD-ROM contains a more detailed hydrogeological mapping. The small scale of the map allows the representation of only a limited amount of information, e.g. on climate, chemical composition of groundwater and any geological features of significance to groundwater flow. Additional drawings, sections and photos are supplied, too. All map sheets and the corresponding CD-ROM are available for purchase.

The special edition shows, according the (simplified) General Legend of the map mosaic, various groundwater environments in Europe in their areal extent: blue colour is used for groundwater in porous aquifers, green coloured areas are characteristic for groundwaters in fissured aquifers including karst. Productivity of aquifers is divided in two classes: highly productive (dark colour) and moderately productive (light colour). Locally or limited aquiferous rocks are shown in light brown, practically non-aquiferous rocks in dark brown.

Map sheets and explanatory notes of the IHME1500 can be purchased from

ILH Scientific Cartography
Schockenriedstrasse 44
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UNESCO Publishing
7, Place de Fontenay
75352 Paris 07 SP France

Internet:

Project description: www.bgr.bund.de/ihme1500
Web Mapping Application: www.bgr.de/app/ihme1500/

Literature

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GLBRICH, W. H., KRAME, K. & WINTER, P. (2001): Internationale Hydrogeologische Karte von Europa, 1: 500 000. Bemerkungen zum Inhalt und Stand der Bearbeitung - Hydrologie und Wasserbewirtschaftung, 45, H. 3, S. 122 - 125, Koblenz.

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The maps of the IHME1500 were prepared by

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