



Metadata

Global Runoff Data Base



Exported from the Freshwater Biodiversity Data Portal, <http://data.freshwaterbiodiversity.eu>
Visit the Freshwater Metadatabase, http://data.freshwaterbiodiversity.eu/metadb/about_metadata

General information

name of the dataset:

full name of the dataset: *Global Runoff Data Base*
dataset short name: *GRDB*

type of dataset ([more information](#)):

specify: *environmental characteristics database*
river discharge and drainage basin shape files

data type: *point data/observation data, shape files*

short description of the dataset/summary:

The primary task of The Global Runoff Database (GRDB) is to maintain, extend and promote a global database on river discharge aimed at supporting international organizations and programs by serving essential data and products to the international hydrologic and climate research and assessment community in their endeavour to better understand the earth system. The database comprises discharge data of more than 8.000 gauging stations from all over the world. The GRDB is run on a Linux operated machine with 32 GB RAM using a Oracle 11g Database Management System.

science keywords according to [GCMD](#):

topic: *Terrestrial Hydrosphere*

keywords: *global hydrological data set, river discharge data, surface water*

ISO topic category according to [ISO 19115](#):

Geoscientific Information, Imagery/Base Maps/Earth Cover, Inland Waters

Technical and administrative specifications

data format:	<i>Oracle</i>
others/details:	<i>Oracle 11g Database Management System</i>
operating system:	<i>Linux</i>
others/details:	<i>Linux operated machine with 32 GB RAM</i>
data language:	<i>English</i>
current access level:	<i>internal</i>
web address (URL):	<i>http://grdc.bafg.de</i>
currently available through GBIF :	<i>no</i>
exchange planned:	<i>no</i>
update level:	<i>continously updated</i>
others/details:	<i>collection of river discharge data collected at daily or monthly intervals from more than 8000 stations in 157 countries</i>
documentation:	
type:	<i>internal description</i>
language:	<i>English</i>
Do you plan to publish the data on the Freshwater Biodiversity data portal:	
media for data delivery:	<i>online internet (HTTP)</i>
web address:	<i>http://www.bafg.de/cln_030/nn_293894/GRDC/EN/02__Services/01__River Discharge/Catalogues/catalogues__node.html?__nnn=true</i>
contact details:	
metadata contact person:	
first, last name:	<i>Ulrich Looser</i>
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address:	<i>Am Mainzer Tor 1</i>
postal code, city:	<i>56068 Koblenz</i>
province, state:	<i>Rheinland-Pfalz</i>
country:	<i>Germany</i>
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comments:	<i>This entry was originally filled by the BioFresh team by visiting the site on 10/27/2012 [anne.hartmann@boku.ac.at] and was modified by Ulrich Looser, Head of the GRDC, on 10/29/2012 (looser@bafg.de).</i>

Intellectual property rights and citation

(if the database is already published):

dataset creator (data compiler):

contact name: *The GRDC*
contact email: *Tel.: +49 261 1306 5224; email: grdc@bafg.de; Homepage: http://grdc.bafg.de*

data contributors to/owners of this dataset:

single

criteria for using the data in a publication/scientific analysis:

The dataset is publicly available (data portal, data archive) and can be used without restrictions, but must be acknowledged and cited correctly.

citation of this dataset:

author(s): *The Global Runoff Data Centre, 56068 Koblenz, Germany*
title: *The world-wide repository of river discharge data and associated metadata.*
year: *Established in 1988*

citation of the metadata:

comments:

The data from the GRDB will be maintained by the GRDC in the GRDB only. Data will be provided on request with users having to sign a user declaration stating that data will not be redistributed to third parties. The data policy is based on WMO Congress Resolution. Therefore GRDC is not able to provide time series data to other data portals. However, station metadata can be obtained from the GRDC station catalogue with the provision that the data needs to be ordered from the GRDC.
[http://www.bafg.de/cln_031/nn_294146/GRDC/EN/02__Services/01__River Discharge/Catalogues/catalogues__node.html?__nnn=true](http://www.bafg.de/cln_031/nn_294146/GRDC/EN/02__Services/01__River%20Discharge/Catalogues/catalogues__node.html?__nnn=true)

General data specifications

regional coverage of the dataset:

scale of the dataset: *global*

continents: *Africa, North America, South America, Asia, Europe, Oceania*

spatial extend (bounding coordinates):

southernmost latitude [°]: *-50,27*

northernmost latitude [°]: *90*

westernmost longitude [°]: *-180*

easternmost longitude [°]: *180*

minimum altitude: *-5,2 metres*

maximum altitude: *3775 metres*

countries: *Africa: Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Congo, Democratic Republic of, Congo, Republic of, Côte d'Ivoire, Egypt, Ethiopia, Gabon, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Réunion, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Tunisia, Uganda, Zambia, Zimbabwe, Somaliland*
North America: Canada, Costa Rica, Cuba, Dominican Republic, El Salvador, Guadeloupe, Guatemala, Honduras, Jamaica, Martinique, Mexico, Nicaragua, Panama, Puerto Rico, Trinidad and Tobago, United States
South America: Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, French Guiana, Guyana, Paraguay, Peru, Suriname, Uruguay, Venezuela
Asia: Afghanistan, Armenia, Azerbaijan, Bangladesh, Cambodia, China, Cyprus, Georgia, Hong Kong, India, Indonesia, Iran, Iraq, Israel, Japan, Jordan, Kazakhstan, Korea, Democratic People's Republic of, Korea, Republic of, Kyrgyzstan, Laos, Malaysia, Mongolia, Myanmar (Burma), Nepal, Oman, Pakistan, Philippines, Singapore, Sri Lanka, Syria, Tajikistan, Thailand, Turkey, Turkmenistan, Uzbekistan, Vietnam, China, Republic of
Europe: Albania, Austria, Belarus, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Svalbard, Sweden, Switzerland, Ukraine, United Kingdom
Oceania: Australia, Fiji, Micronesia, New Zealand, Palau, Papua New Guinea, Samoa

comments:

*The database is constantly updated. The station catalogue is updated from time to time. Time series ending in 2012 have been obtained for a number of stations. The station catalogue is available from:
[http://www.bafg.de/cln_031/nn_294146/GRDC/EN/02__Services/01__River Discharge/Catalogues/catalogues__node.html?__nnn=true](http://www.bafg.de/cln_031/nn_294146/GRDC/EN/02__Services/01__River%20Discharge/Catalogues/catalogues__node.html?__nnn=true)*

Site specifications

coordinate system/grid data:	<i>latitude/longitude, format: DD</i>
grid data available:	<i>no</i>
site coding:	
site coding available:	<i>yes</i>
	<i>numerical</i>
number of digits:	<i>7</i>
example:	<i>1201100</i>
number of sites:	<i>>1000</i>
exact number of sites:	<i>8471</i>
comments:	<i>The dataset is constantly updated and expanded. Currently there are 8471 stations with time series data registered in the GRDB.</i>

Climate and environmental data

climate related data:

available per: *per site*

available parameters:

mean discharge

National Hydrological Services

comments:

The GRDC obtains the river discharge data (mean daily and mean monthly flow) from National Hydrological Services around the world.

environmental data:

available parameters per catchment: *catchment size*

National Hydrological Services

Other specifications

GIS layers, shapes related to the dataset:

*hydrological information (as HydroSHEDS)
catchments, river-sub-basins*

availability of photos: *no*

availability of maps: *yes*

quality control procedures:

Were any quality control procedures applied to your dataset?

yes

quality control protocols and comments:

GRDC stores only data that have been verified and released by the owner of the original data.