

## JRC Dataset

### Global Streamflow Characteristics Dataset (GSCD) - Runoff coefficient (estimated)

#### Description:

The Global Streamflow Characteristics Dataset (GSCD) consists of global maps of 17 streamflow characteristics, including baseflow index, runoff coefficient, and flow timing, providing information about catchment behavior for the entire land surface including ungauged regions. The maps are unique in the sense that they were derived using a data-driven (top down) approach based on streamflow observations from an unprecedentedly large dataset of approximately 7500 catchments around the globe, rather than using a physically-based (bottom up) process model. The GSCD can be used for a wide range of large-scale hydrological applications, such as water resource assessments, catchment classification, groundwater recharge estimation, stream ecosystem assessments, and diagnosis and parameterization of macro-scale hydrological models. See Beck et al. [2013] and Beck et al. [2014] for further details.

#### How to cite:

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#### Keywords:

Hydrography

#### Related resources:

##### Data access

RC

Runoff coefficient, the ratio of mean annual streamflow to precipitation.

[http://water.jrc.ec.europa.eu/cgi-bin/mapserv?map=/var/virtual/waterportal/water\\_portal/wp\\_mapfiles/wp\\_png.map&S ERVICE;=WMS&V](http://water.jrc.ec.europa.eu/cgi-bin/mapserv?map=/var/virtual/waterportal/water_portal/wp_mapfiles/wp_png.map&S ERVICE;=WMS&V)

#### Additional information:

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EuroVoc domain(s): 36 SCIENCE

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#### Geographic information:

Lineage: See <http://water.jrc.ec.europa.eu/GSCD/> for details

Geographic bounding box: 90.0° N, 180.0° E, -90.0° S, -180.0° W

Coordinate Reference System: WGS 84