Data

The Global Freshwater Quality Database GEMStat provides scientifically - sound data and information on the state and trend of global inland water quality. Its objectives include collecting, controlling and providing water quality monitoring data and products for regional and global water quality assessments. The Data Centre maintains the global water quality database and information system GEMStat. Data for GEMStat is received from GEMS/Water's global network of National Focal Points (NFP's) which are government institutions and agencies with the official mandate to monitor freshwater quality data in their country.

Data related activities of GEMS/Water include:

- **Collecting water quality monitoring data:** The Data Center compiles environmental water quality data from the GEMS/Water Global Network of governmental and collaborating organisations covering more than 80 countries.
- **Controlling and assuring data quality:** A global dictionary of Analytical Methods for Environmental Water Quality (AMD) and state-of-the-art checks ensure the provision of quality-controlled data-sets and derived products.
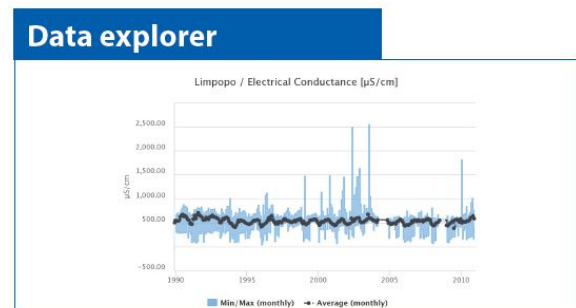
Visualizing and analyzing data: A web-based information system gives access to statistical and graphical analysis of the data at single sampling sites, aggregated by countries and catchment.

Harmonizing and standardizing monitoring data exchange: The Data Center supports the development and implementation of open, standardized exchange formats for monitoring data and metadata to improve the exchange of data at national and international levels.

Enhancing data discover-ability and accessibility: The Center works towards enhancing the availability and accessibility of GEMStat data and products by integrating them into existing global environmental information systems (Environment Live, GEOSS).
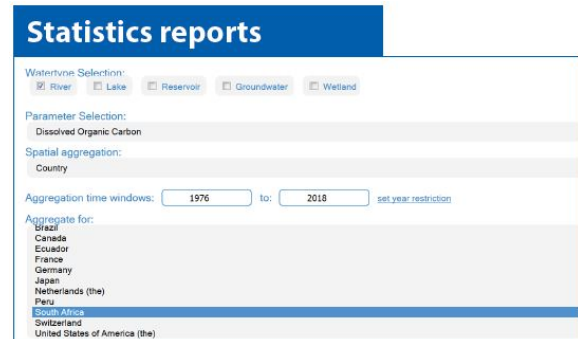
Available products

- **Data explorer**
  Visualise the spatio-temporal coverage of GEMStat water quality data, aggregated for a particular station, catchment or country
- **Statistics portal**
  Produce a statistical report on

GEMStat water quality data, including a summary of the metadata, parameter details and analytical methods

- **Metadata catalogue**
  Access metadata of GEMStat water quality data such as details on monitoring programmes and water quality parameters being monitored

To go to the GEMStat page please click on the image below

Click on image to go to the GEMStat website

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