





Implemented by European Commission

Hydrological Data Collection Center (HDCC)

Sharing your hydrological in-situ data

The Hydrological Data Collection Center (HDCC) collects historical and in-situ hydrological near-real-time discharge and water level data from gauging stations and reservoirs across Europe for EFAS, applying quality checks to improve its reliability.

How to share hydrological data and what data to share?

Near Real Time Data

- Discharge data
- Water level data
- Reservoir levels
- Reservoir storage volume
- Reservoir inflow discharge
- Reservoir outflow discharge

Historical Data from 1970 onwards

Requirements

- Drainage area: $\geq 50 \text{ km}^2$
- Temporal resolution: \geq 6h (preferred)

Stations metadata

- River name
- River **basin**
- Station name
- **Coordinates**: latitude & longitude (preferably in WGS84)
- Height above mean sea level (optional)
- **Drainage** area (km2) and units (optional)
- **Time zone** of measurements
- •Threshold/alert
 - levels (optional)
- Values instantaneous or averaged ? Aggregation interval location (beginning, middle, end of the interval)
- Stations' historical maximum and minimum values

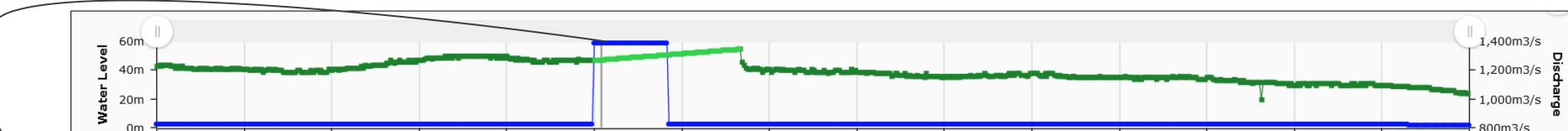
Data license

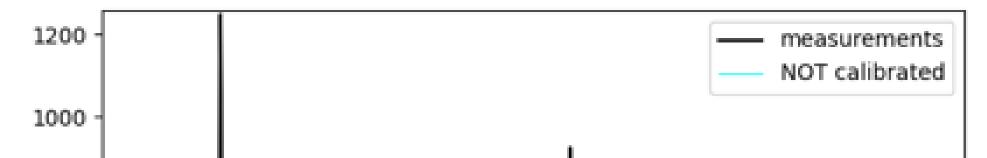
- Hydrological Data Available as **O**pen-Source Data: **No license needed**
- Hydrological Data Not Available as **O**pen-Source Data
 - •License EUMETNET + Copernicus (If the Institution is part of EUMETNET)
 - Copernicus data license (If the Institution is not part of EUMETNET)

How to send us the data

Via FTP, webservice, in a *.csv, *.zrx,... file. The HDCC uses a standardized preferred format, but we can agree on a format for each case

What do we do with the data?





Quality checks results	Discharg Status	e Interpolated Water Level Interpolated Discharge		800 -			
				600 -			
Range Control (QL1)	FAIL	1. Run CEMS HDCC quality	2. EFAS post-processed	400	I.I.		
Variation over previous day,	UNCHECKED	and quantity checks	hydrographs	400 -			
same time (QL4)		protocol	3. National Flood Monitoring Layer	200 -	MMLI h.		
Variation over previous value (QL5)	UNCHECKED	2. Generate Aggregated Operational Data in 1h, 6h, 24h	4. Verification for flash flood forecast skill	and the second	M. M. M.	the way	Mila
Variation over monthly min/max value (QL6)	SUSPICIOUS	intervals	5. Annual Reports	2001-012001-05 2001-09 2002-012002-05 2002-09 2003-012003-05 2003-09 200			
Repetitive Values value (QL8)	PASS	3. Reporting points layer	analyzing the hydrological data received by the	1200 -		5	
Regression value (QL9)	PENDING	4. Share hydrological data with CEMS COMP for:	CEMS HDCC	1000 -		ï	
		1. EFAS Model calibration		800 -			

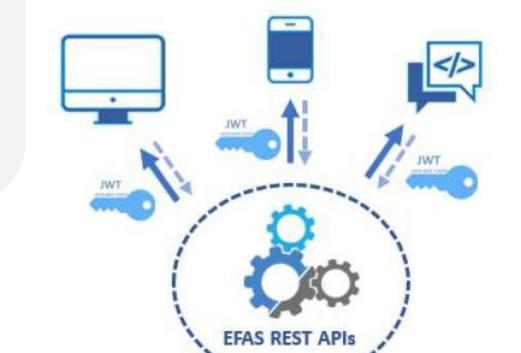
How to request quality-checked hydrological data

Access to the data with the HDCC quality check flags

Private access via API REST with an user/password for each data provider to their data

If you still don't have access, contact the CEMS Hydrological Data Collection Center

- date range returned [
- 2023-02-15 12: 00: 00,
- 2023-02-15 16: 00: 00



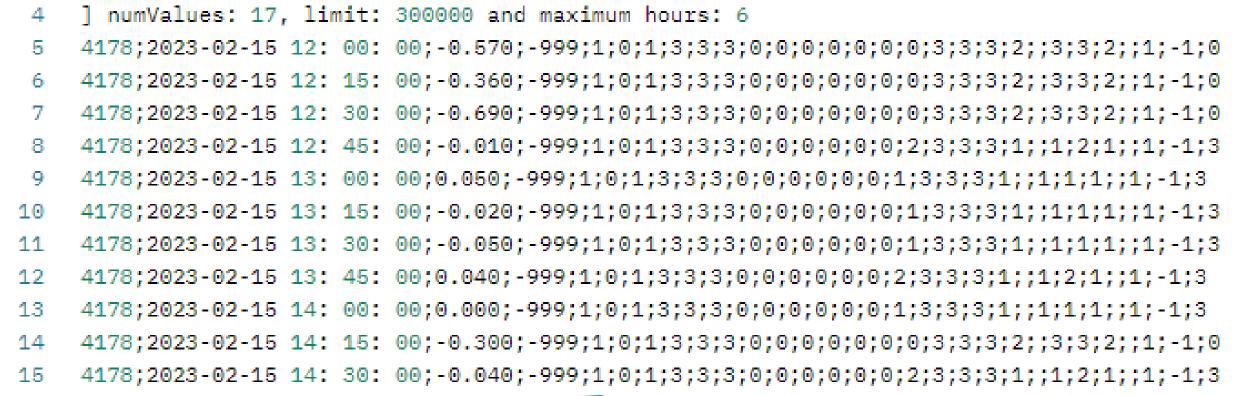
Questions?

600

400

200

Please contact the CEMS Hydrological Data





Collection Centre directly by sending an email to: info@efas.eu

2001-01 2001-05 2001-09 2002-01 2002-05 2002-09 2003-01 2003-05 2003-09 2004-01

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EFAS, GIoFAS, GFM are products and services of the Copernicus Emergency Management Service. The Joint Research Centre of the European Commission is the entrusted entity responsible for CEMS EFAS, GIoFAS and GFM in terms of management, technical implementation and evolution. Ghenova Digital is the designated contractor to implement the operational functionalities of the HDCC

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