

Note: this was a query that I made to best download the GRDC data and can be used as a guide to download the data for the model.

GRDC has a user-friendly portal where you can conveniently download your time series <https://portal.grdc.bafg.de>
The data policy says that not all data can be provided in one go, so this is a little guide.

With seven requests you can get all daily time series.
This is how to best do it.

Please download the GRDC station catalogue via the portal:

The screenshot shows the GRDC Data Download portal. The top navigation bar includes links for Home, Download by Subregion, Download by Station, Download GRDC Station Catalogue (highlighted), Contact GRDC, and FAQ. Below the navigation bar, the 'Download GRDC Station Catalogue' section is active. It contains the title 'GRDC Station Catalogue' and a paragraph explaining that the catalogue compiles metadata for GRDC stations and is available as an MS-Excel spreadsheet. A search field for 'Station Name or Number' is provided. A warning message states: '!!! Please use the most recent station catalogue for station selection !!!'. Below this is a yellow button labeled 'Download Station Catalogue'. A table titled 'Examine station metadata using the column key:' lists the following headers and meanings:

Header	Meaning Explanation
grdc_no	GRDC station number
wmo_reg	WMO region
sub_reg	WMO subregion (basin)
river	river name
station	station name

Sort the catalogue by WMO Region (Column B).
Copy all GRDC station numbers Region by Region into the data portal into the filter field "Station Name or Number" at the "Download by Station" tab. Wait until the stations are displayed, this could take a moment. Draw a box or polygon around the selected stations, this might also take a bit of time.

The screenshot shows the GRDC Data Download portal with the 'Download by Station' tab selected. The left sidebar contains a 'Filter' section with the following options:

- Station Name or Number: 1,708 / 10,704 Stations (with a search icon and a text input field containing '1104150 1104200 1104300')
- Water Body Name: All (with a dropdown menu and a link to 'Find by alternative names')
- Region: All (with a dropdown menu)
- Sub-region: All (with a dropdown menu)
- Country: All (with a dropdown menu)
- Time Period: All (with a dropdown menu and options for '1931 - 1960' and '1961 - 1990')

The main area displays a world map with blue dots representing selected stations. A status bar at the bottom of the map indicates '1708 Stations selected' and provides buttons for 'Deselect all' and 'Download'. The footer of the page shows '© 2023 GRDC | All rights reserved' and 'All timestamps in time zone: UTC'.

Proceed with the download, select GRDC daily or NetCDF daily export format, complete form and request data.

Last name, First name
 Uli Looser
 Email address
 Looser@bafg.de
 Institution
 GRDC at BfG
 Working sector
 Research institution
 Country
 Germany
 Address
 Koblenz
 Subject Matter
 Operational hydrology
 Project title and abstract (max. 1500 characters)
 Data exchange with Hydrological Service of Cote d'Ivoire
 Export Format
 GRDC Export Format (daily data only)
☐ Download Watershed Boundaries (Polygons in GeoJSON format)
 The selected format is estimated to be around 1708 files with a total download size of 166.41 MB. If you choose to submit, your download will be processed and an email will be sent to you when it is ready.
☐ I, as the representative of the requesting organisation, accept the general Terms of Use and the Data Protection Regulations.
☐ I, as the representative of the requesting organisation, specifically agree to the following Data Sharing Conditions.
 Cancel Request download

These steps you have to repeated for all WMO regions. However, for WMO Region 6 you will have to split your request as not all daily data (GRDC format) can be downloaded in one go.

In total this would mean 7 requests for all daily data available at GRDC.

As you need Europe as well, the route via the station catalogue is the best.

Alternatively you can also select the WMO regions in the filter field "Region" at the "Download by Station" tab. However, this way all daily data for Region 6 cannot be downloaded at once.

GRDC Data Download
 Home Download by Subregion **Download by Station**
 Download by Station
 Download by Station Map Table
 Filter 10,704 / 10,704 Stations
 Clear filter
 Station Name or Number
 Search
 Water Body Name
 All
 Find by alternative names
 Region
 All
 Sub-region
 All
 Country
 All
 Time Period
 All
 1931 - 1960
 1961 - 1990

The map shows a distribution of stations across the Arctic and Pacific Oceans, with many stations marked by blue dots and numbers.

Please note that by downloading all daily data, you will not get a total of 10.700 stations as there are approximately 2150 stations with no daily data but only monthly time series