UIS data API training: concept note

Objectives

The UIS has launched a new [UIS Data Browser](#) to align with the September 2024 data release. Its web Application Programming Interface (API) allows programmatic data extraction for integration in reproducible reports and applications.

To assist data users in extracting data from the API, the UIS is offering two training sessions on how to use the data API for the new UIS data browser. The session will provide participants with potential use cases of the API, highlighting where this service can provide advantages over facilities with which users may already be familiar, such as UIS front-end browsers and the UIS Bulk Data Download Service (BDDS). Targeting at data analysts and researchers, the training sessions aim to guide users in navigating the API and in extracting data into common formats using scripting languages such as R.

When

- 18 September 2024 - 8am - 9am EDT / 2pm - 3pm CEST ([register](#))
- 24 September 2024 - 11am - 12pm EDT / 5pm - 6pm CEST ([register](#))

Session Structure

The two sessions each will have a duration of one hour, with 45 minutes of presentation and 15 minutes for Q&A. Both sessions will be conducted in the English language. They will be structured in the following format:

1. *Introduction and overview of the API* (20 minutes)
   - Introduction to the API and potential use cases.
   - Guided tour of all API endpoints, with example queries.
2. *Overview of frontend browser* (10 minutes)
   - Brief overview of the front end-browser

- Guidance on how metadata and documentation in the browser can inform API queries.
3. *Working with R and the API* (15 mins)
    - Example work flows in importing data into R data frames.
    - Demonstration in integrating API calls into a Shiny application.
4. *Questions and Answers* (15 minutes)