The Indonesian example

http://182.253.16.108/ccis2/
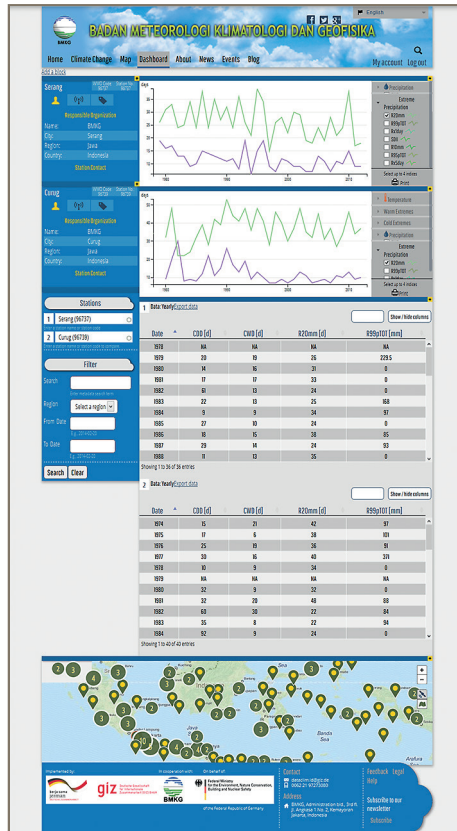
The web-based Climate Information System (CIS) hosts products to make data on Indonesian climate heritage useful for climate change adaptation. Indonesian public services and stakeholders have ample opportunities to employ these products according to their project needs.

• Over 40 state-of-the-art climate indices calculated from rescued and archived historical weather station data

• Extensive, customizable opportunities to explore Indonesian weather station data

The CIS is maintained by the national Indonesian weather service BMKG (Badan Meteorologi Klimatologi dan Geofisika).

Why build another web-based climate information service if you can use an existing one?

The open source, transferrable, customizable and extensible climate information system.
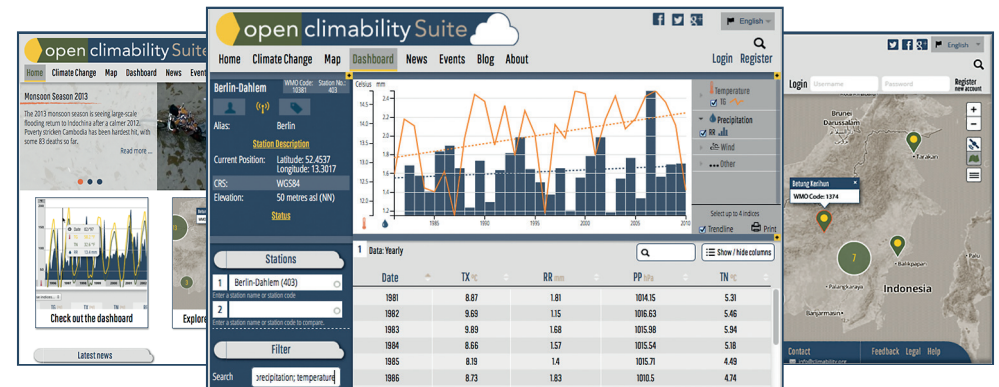
The project: DATACLIM

The open climability suite is a product of the DATACLIM project (Data and Information Management on Adaptation to Climate Change). DATACLIM is a joint cooperation between BMKG and GIZ. It is funded by the BMUB (German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety) through its International Climate Initiative (IKI).

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In cooperation with:

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Implemented by:

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On behalf of:

Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

of the Federal Republic of Germany

Deutscher Wetterdienst
Wetter und Klima aus einer Hand

CLIMATE-BABEL

Extensible products and flexible management
Utilize a variety of features to accommodate users' needs

Climate Toolbox
Process, clean, and analyze climate data

The **open climability suite** provides extensible products and a wealth of managerial features you can use and customize to meet the needs of existing or upcoming activities. The two key products are the **Climability Dashboard** and the **Climate Toolbox**. The managerial features include, but are not restricted to:

Data Management
Import climate station data and manage data entry and user access to data.

Customization
Adapt the design of the platform. Add additional menus to accommodate your needs.
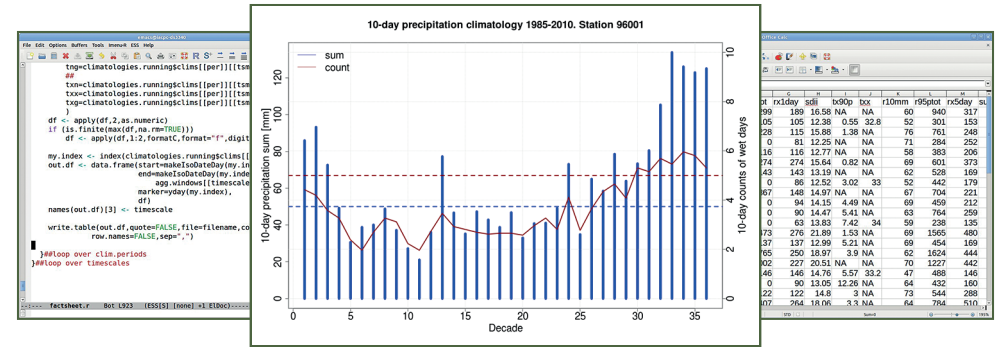
User management
Use fine-grained management of data and function access. Easily add new users or edit user rights.

RSS feeds, Blogs
Integrate RSS feeds, news, and events that are important or relevant for your institution.

Climability Dashboard
Manage, explore, and visualize climate data

The elaborate **Dashboard** is the core application of the open climability suite. It allows your users to truly get behind the wheel of its climate data and go beyond static and standard map and data exploration features in climate information services. Its features include, but are not restricted to:

Graphs
Display climate information in graphs with flexible and relevant display options including trends, time range selection, and station comparisons.

Metadata
Enter, display, and query climate station metadata. Add additional types, such as station photos, interpretations, or guidelines.

Data management
Import climate stations and climate data into the flexible database architecture. Manage data entry and user access to data.

Mapping tools
Map and animate, and your georeferenced data. Adapt the map design and graphic representation.

Open source and powerful routines

The **Climate Toolbox** is a state-of-the-art set of routines to create climate information products from weather station data. It relies on the established open-source language "R" to ensure a transparent, automatable and customizable workflow.

Build on existing climate indices

The toolbox already contains such routines for over 40 climate variables and climate indices. It is readily extensible, for example, by including additional indicators important for sectors and regional conditions of your project.

The existing set of indices builds on and is in compliance with the core indices from the World Climate Research Program (WCRP) and the Expert Team on Climate Risk and Sector-specific Indices (ET CRSCI) of the World Meteorological Organisation (WMO).

Ensure quality climate data

A valuable set of further routines is included to check, clean and evaluate climate data, and to calculate the different climate indices.