

# CHARMe:

## Sharing knowledge about climate data

Jon D. Blower and Rhona A. Phipps on behalf of the CHARMe consortium

### Are you a user or producer of climate data?

### Do you want to see a simple way of judging if a dataset is fit for the user's purpose?

If so then you are a potential future CHARMe user.

**The CHARMe project aims** to allow users to **view** or **create annotations** that describe how climate data have been used and what has been learned. This information can include:

- **Citations** that reference a particular dataset;
- **Results of assessments** – reanalysis, quantitative error assessments;
- **Provenance** – processing algorithms and chain data source;
- **External events** that may affect the data – volcanic eruptions, El Nino, sensor failure;
- Supplementary dataset **quality information** – maturity, discontinuity, updates.

### What is the CHARMe system?

Users require different kinds of supporting information - called **metadata** in order to understand climate data.

The **CHARMe** system will collect and share annotations associated with a climate datasets. This information is called **commentary metadata**.

Users will be able to **add or view** commentary metadata, complementing existing information from the data providers.

### How does CHARMe fit into the climate services landscape?

**CHARMe** will add value by allowing user feedback and commentary on datasets to be shared and retained within the community.

### How does it work?

The **CHARMe** system will **provide links** between datasets and citations and other commentary information using open standards such as **Open Annotation**. This approach is highly flexible and can adapt to changing user needs as the system grows.

### Better for ...

#### ... climate data users



- The **CHARMe** system will allow climate data users to view and add comments to a particular dataset of interest.
- Using interactive web based tools, the users will be able to
  - **search** the commentary data,
  - **compare** this commentary data between datasets,
  - **view significant events** that happened around a particular period of interest.
- **CHARMe** will enable the user to quickly determine if this dataset suits their needs.

#### ... data providers



- Data providers will be able to integrate **CHARMe** into their existing systems, to complement their data user provision.
- The **CHARMe** system will **add value** to the data user experience on the data provider's dataset library.
- The **CHARMe** system will enable new users of data to learn from existing experience from a wide range of users.

For more information please go to our website:

[www.charme.org.uk](http://www.charme.org.uk)

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Images courtesy of ESA

#### Contact information

CHARMe Project Co-ordinator,

National Centre for Earth Observation, Department of Meteorology, University of Reading, Reading RG6 6BB.

Email: [r.a.phipps@reading.ac.uk](mailto:r.a.phipps@reading.ac.uk)

