



CHARMe update 2

www.charme.org.uk

CHARacterisation of Metadata to enable high quality climate applications and services

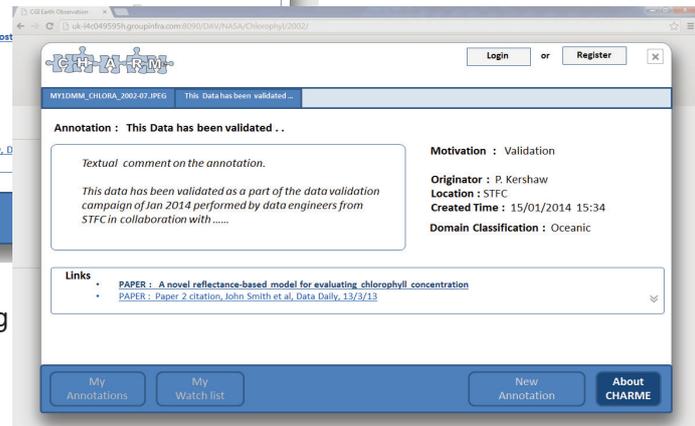
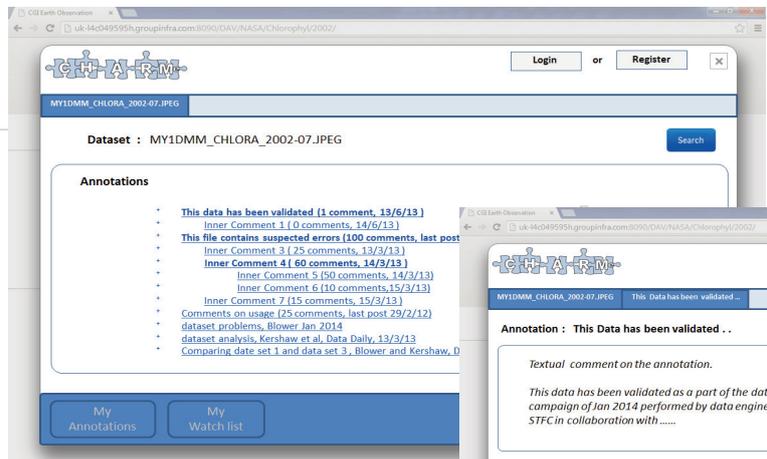
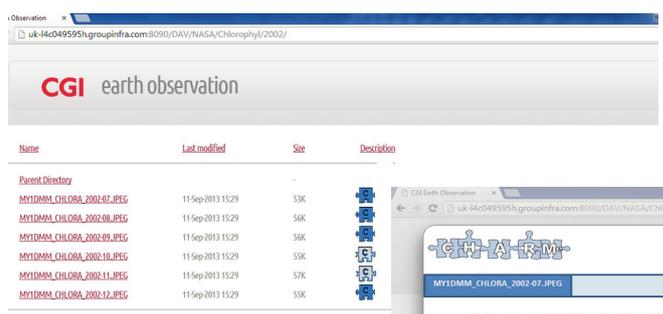
The CHARMe project is developing an online system for collecting and sharing user experiences and feedback on climate datasets (“Commentary Metadata”). This is to help users judge how suitable such climate data are for their own intended applications.

CHARMe system development – on track to deliver!

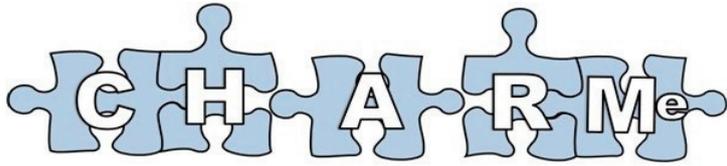
Data Model and Open Annotation

Recent activity in the CHARMe project was to define a data model for Commentary Metadata. This is the way that the Commentary information is structured and stored so that it is **machine-readable**, enabling search and interpretation by software. An important decision was to adopt a **Linked Data** approach for CHARMe and use a

technology called **Open Annotation** as an overall framework. An annotation associates a piece of information with a subject and so within CHARMe it can be used to associate a dataset with a user comment about that dataset. There is little experience in the Open Annotation community of climate science, Earth observation or even anything related more widely to geospatial applications, so CHARMe is breaking new ground here! The CHARMe data model [specification document](#) is available online and you can provide feedback to the developers at info@charme.org.uk



Three screen shots demonstrating CHARMe data annotations. Selecting the CHARMe button on a data server (left) brings up an annotation overview (centre), from which specific information can be viewed (right).



Software implementation

CHARMe is following an iterative development philosophy. An early prototype of a Commentary-metadata (“C-metadata”) access client has been used to inform and improve the requirements for both the data model and future C-metadata tools. With each iteration cycle lasting approx 3 months, the project has already made good progress on constructing the architecture for creating, storing and viewing C-metadata, within this first year.

CHARMe demo on YouTube

The latest prototype was completed in November 2013 for assessment by project partners. A YouTube demo of this prototype is available at http://youtu.be/F5k_FQt5eb0

CHARMe reaches out

Meet us !

 Baudouin Raoult from ECMWF presented the Significant Events Tool (SEVT) developed within Charme Project at the [94th Annual Meeting of the American Meteorological Society](#), February 5th 2014. The SEVT will be a web-based graphical tool that will visualize time series of feedback data (from the 100 years Observation Feedback Archive of ECMWF) with their associated significant events, such as volcanic eruptions, the launch of new satellites or El Niño phases allowing users to become more familiar with the variety of observations that feed into the reanalysis. More info can be found [here](#).

 A CHARMe poster was displayed at the EU Speakers Corner in the GEO-X plenary and ministerial summit, 15-17 January, Geneva.

 Jon Blower (University of Reading) attended a CORE-CLIMAX project meeting, Darmstadt, 21-23 January and gave an overview of CHARMe to all attendees. The presentation covered the projects aims and capabilities, and described the planned benefits of the CHARMe system for the Earth observation data community.

See us !

 Materials from previous CHARMe outreach events are available on the CHARMe website at www.charme.org.uk.

 Read a summary of the CHARMe project background and progress so far in this [special issue paper](#)

 Jon Blower from Reading University presented an [overview of the CHARMe project](#) at the “Linking and Contextualising Publications and Datasets” workshop in Malta on September 26th 2013.

 CHARMe posters were presented at the 9th EU-METNET Data Management Workshop (6-8 November 2013) in Madrid, and the Living Planet Symposium (9-13 September 2013) Edinburgh.

This e-newsletter is available online [here](#).

If you no longer wish to receive CHARMe news emails, please reply to info@charme.org.uk with the word ‘UNSUBSCRIBE’ in the subject line.

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