

Lineage:

- Initial version prepared, Radim and Rachid, Aug 2016
- Substantial edits and comment, Bruce, Jan 2017

User Story**7.1. CDMS GUI – Data Exploration****Version: 0.1****==== User Story ====****Related components:** 4, 5, 6, 7, 8**Related User Stories:** ...

A Climate Data Manager requires functionality to effectively visualise climate data, and if required, download the data used.

This functionality will allow a Climate Data Manager, or End-User to graphically explore the Climate Archive, including contextual data.

The Climate Data Manager requires functionality to allow data management staff and End-Users to:

- Select, visualise and interactively explore a wide variety of time-series climate data, using one or more of the following methods:
 - tabular reports.
 - a large variety of graphs; and
 - a map interface.
- The method utilised to select the data is to be dynamic, with the resulting selection set consistently displayed across the media selected. For example:
 - if a set of stations are selected via a map interface, if required, data for the same stations and selection should be displayed within a table or as a graph.
 - the user should be able to further fine tune their selection via any of the methods with the resultant set of data displayed consistently in the other methods.
- The User Interface is to be able to:
 - effectively present data of the same type presented as an **ensemble**.
 - the user interface is also to be able to facilitate a limited amount of statistical analysis;
 - display various media stored in the database such as video and photos (e.g.: station photos);
 - export/print/download the generated tables/graphs/maps in different formats;
 - download the climate data/processed data used to produce the reports (tabular, graphs or maps) into different formats; and
 - conduct an integrated search of the Climate Archive, including observations metadata, discovery metadata, data provenance and data intellectual property using many different, search categories and parameters.

Bruce Bannerman 31/1/2017 14:11

Comment [1]:

We may need to clarify this term in the Glossary.

- Appropriately authorised data management staff are to have the functionality to undertake routine climate data management tasks and when appropriately authorised, to modify/correct a database observations record:
 - It is imperative that the details of any such change is recorded to allow future rollback if required;
 - Appropriate data provenance metadata is to be recorded, including the details of what was changed, who changed it, why was it changed, when was it changed, who authorised the change.

==== End =====

Reference: WMO 1131