Lineage:

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

User Story

7.1.4 Integrated Search – Determine Prevailing Winds at Location

Version: 0.1

==== User Story ====

Related components: 4.1, 4.3, 4.5, 4.6, 5.3, 5.4, 6.1, 8.1, 8.2, 7.1.4

Related User Stories:

- 7.1. CDMS GUI - Data Exploration.

A climate scientist wants to determine the local patterns of prevailing winds for a future airport project.

Based on the future airport location, he selects the appropriate climatological grids, nearest meteorological station, representative of the location and with available wind data, the period of the analysis (e.g. 5 years), different intra-seasonal periods (e.g. DJF), type of wind data (e.g. hourly, synoptic, etc.) and the software compute the wind rose statistics from the resulting wind data.

Bruce Bannerman 31/1/2017 14:49
Comment [1]:
???

The scientist visualizes the wind rose in graphical format and exports it in suitable format (e.g. png). He displays wind statistics in tabular form and export it in suitable format (e.g. Excel). He also prints a map covering the area and features of interest.

After producing and analysing different wind roses which give very succinct but rich information view of how winds speed and direction are typically distributed the scientist makes his report.

Architectural Comments:

- Spatial/aspatial UI

===== end ====

Reference: WMO 1131