

## **Data and meta-data exploration and data quality reporting for GCOS**

**J. Lewis<sup>1</sup>, G.E. Bodeker<sup>1</sup>**

*<sup>1</sup>Bodeker Scientific, Alexandra, New Zealand*

A key way to assure the quality of measurements being made by the observing networks within GCOS, is to provide near real-time metrics of data quality to the sites within networks making the measurements. It is also important to provide tools to the users of databases serving measurements made by networks within GCOS to explore both the data and meta-data within those databases. This is particularly important for high value databases such as the OSCAR database. This presentation will demonstrate tools that have been developed for GRUAN to facilitate the exploration of GRUAN meta-data, which are applicable to databases across GCOS. A demonstration will be given of the application of novel tools to a number of databases that can easily be adapted to facilitate the exploration of a wide variety of different meta-data. The same tools can also be used to report on data quality to sites within networks. The presentation will include a real-time demonstration of these tools in action.