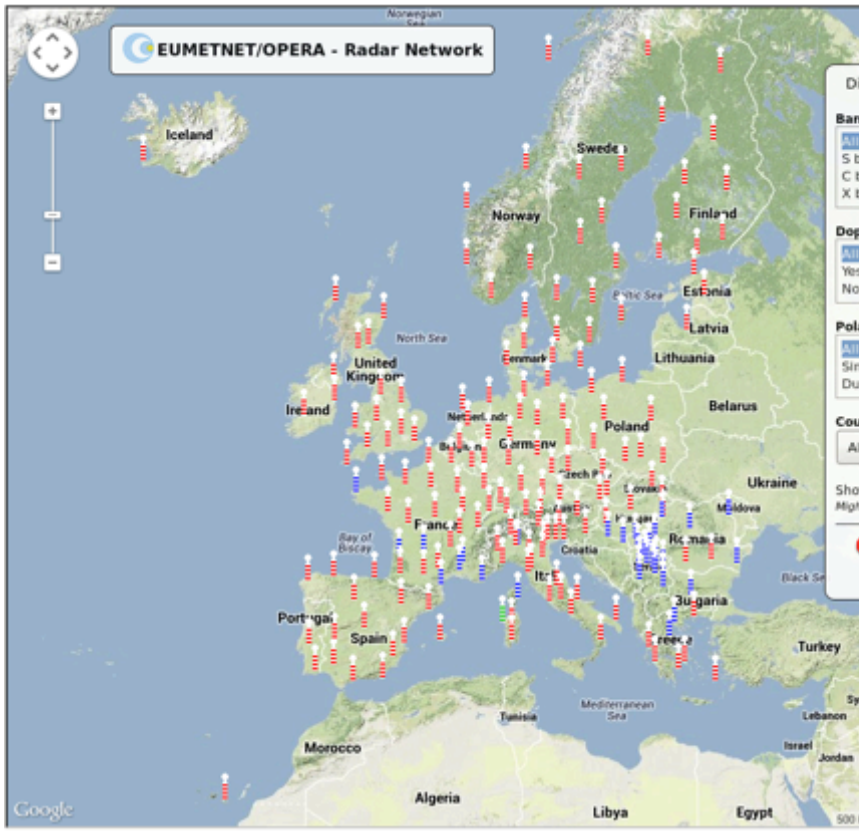
RAINGAIN Algorithm and Data Exchange

Paris, 22nd October 2013

Opera

The objectives of OPERA are:

- to provide a European platform wherein expertise on operationally-oriented weather radar issues is exchanged.
- to develop, generate and distribute high-quality pan-European weather radar composite products on an operational basis



Opera

Tasks of OPERA include:

- To operate and develop the ODYSSEY data hub, which collects radar volume data, distributes quality flagged volume data to modellers and other radar data users, and produces quality controlled radar products;
- To enhance expertise in the field of weather radar (hardware, software, products, quality, network design etc.) within EUMETNET and the whole weather radar community;
- To inform the wider operational and research community of its activities.
- To develop the OPERA Data Information Model (ODIM) and encoding/decoding software for formats such as HDF5 and BUFR;
- http://www.eumetnet.eu/sites/default/files/OPERA_2012_04_Operational_polarimetry_in_X_band.pdf

Opera Data Information Model (ODIM)

- An EU wide standard for data exchange
- Widely Supported by manufacturers
- HDF5 or BUFR compatible data representation
- Provide code for data format conversion
- Breaks data down into groups:
  - What
  - Where
  - How
  - Datasets

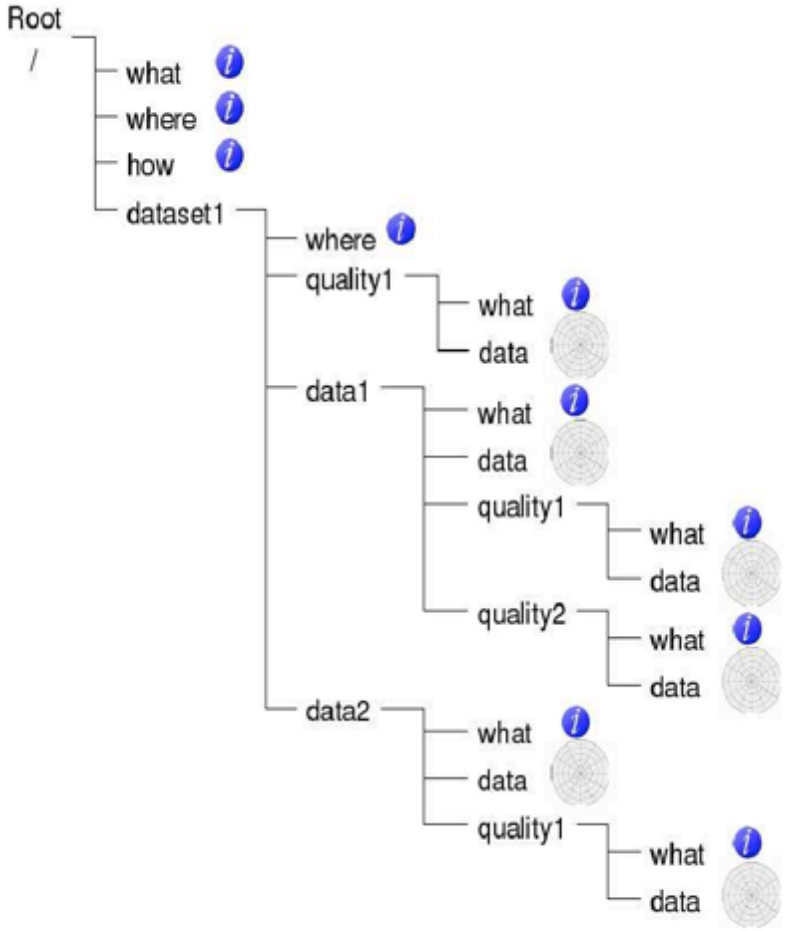


Figure 6: A polar scan containing two parameters and associated quality metrics.