Metadata for Science Use

- Descriptive - Searching Databases
- Understanding Data Products (so the **content** of text metadata matters)
- Effective Display
- Data Properties
- Science Manipulation

Display

- Axes - range, label, Units
- Titles - Data Product, Spacecraft ID
- Spectrogram - bin edges, range

QSAS

http://www.sp.ph.ic.ac.uk/csc-web/csc.html

Data Properties

- Vectors/Tensors have:
  - Coordinate System
  - Dimensionality (Rank)
  - Representation (Cartesian, Polar etc)
- Software can:
  - Take components (& change representation)
  - Rotate
  - Validate applicability

Enhance Analysis

- SI_conversion enables:
  - Validation of operation (e.g. addition)
  - Determination of units for calculation results
  - Adjust units in calculations on the fly