

## **Workshop 2, SECURE Launch Event, 2015; led by Professor Susan Waldron**

### **New Technology data streams**

New technology and developing technology will change the nature of the data. What do we need to deal with it?

**We are increasingly able to measure more and more frequently. How can we best make use of these new data streams?**

- EO, citizen science,
- Sensor application (brings problems of compression of data and processing active data)

**What are the 'big' science (statistical and environmental) challenges in this area?**

- Compression of data, processing active data.
- Interpreting different data sets and different frequencies of measurements.
- Data artefacts.
- Data becoming rawer.

There is therefore a need to fill the modelling gaps created by the above challenges with new tools.

**How can SECURE contribute to developing this theme?**

- Set up an awareness workshop with the focus on:
  - Clarity of how data product generated.
  - Background instruction.
  - Error estimation – helping the community.
- Be ready for the new technology data streams.