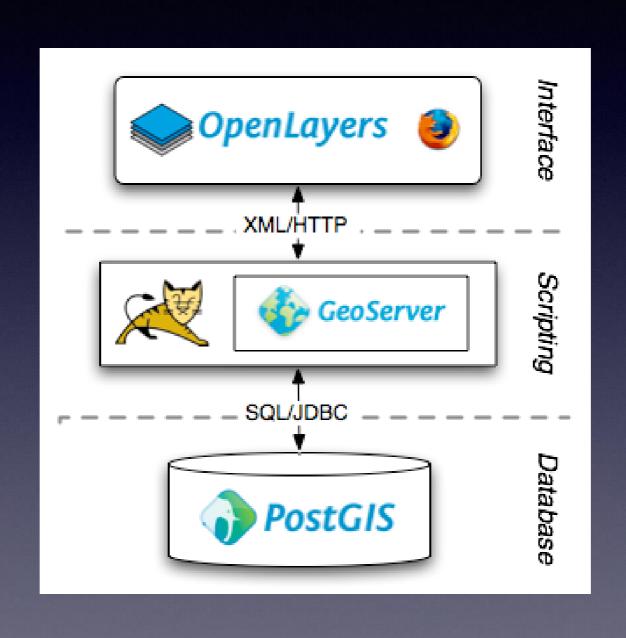
Tips and tricks for handling big spatial data and its visualisation

Santosh Gaikwad - OSGeo-India Chapter

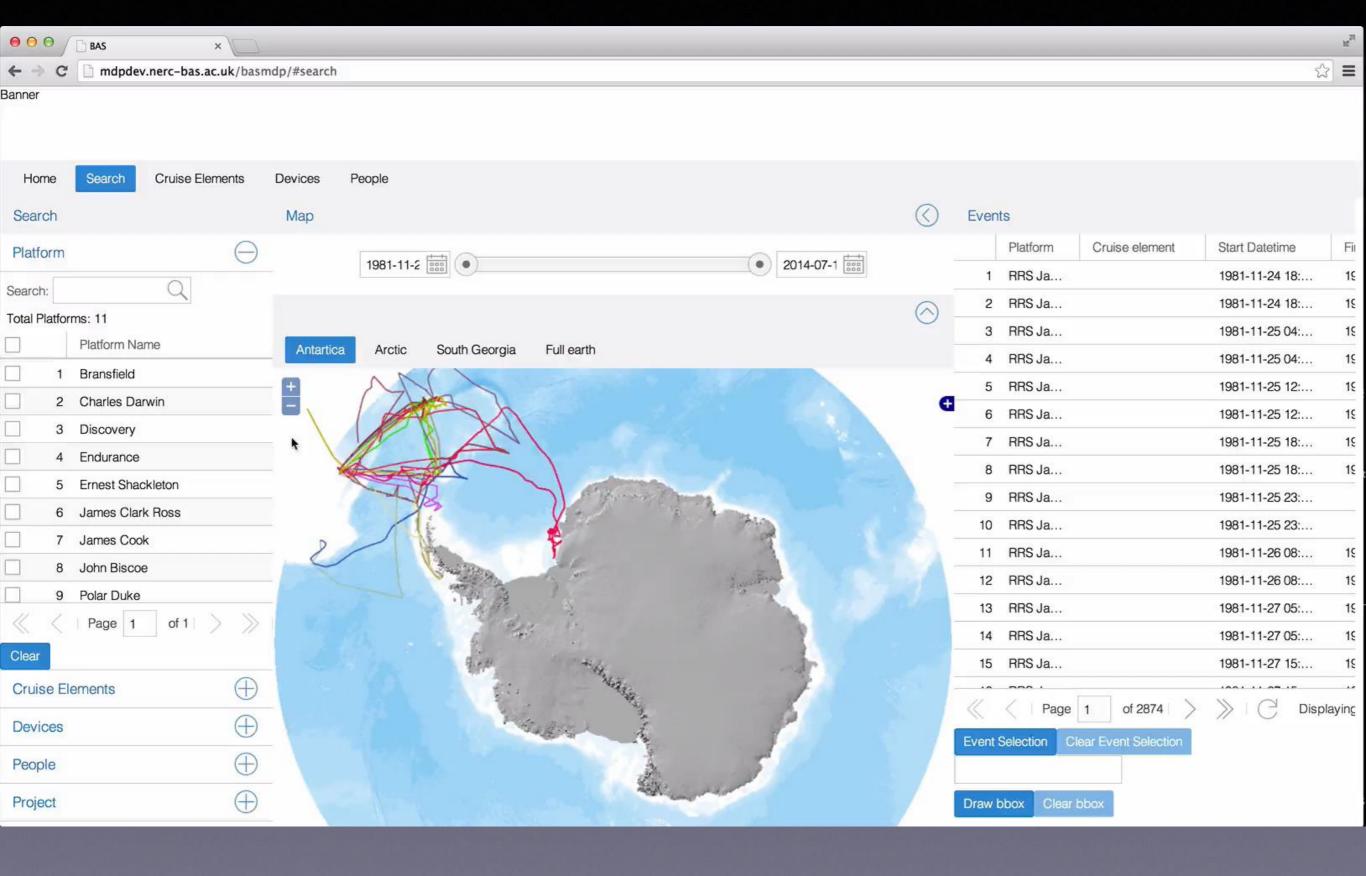
Web Mapping Architecture



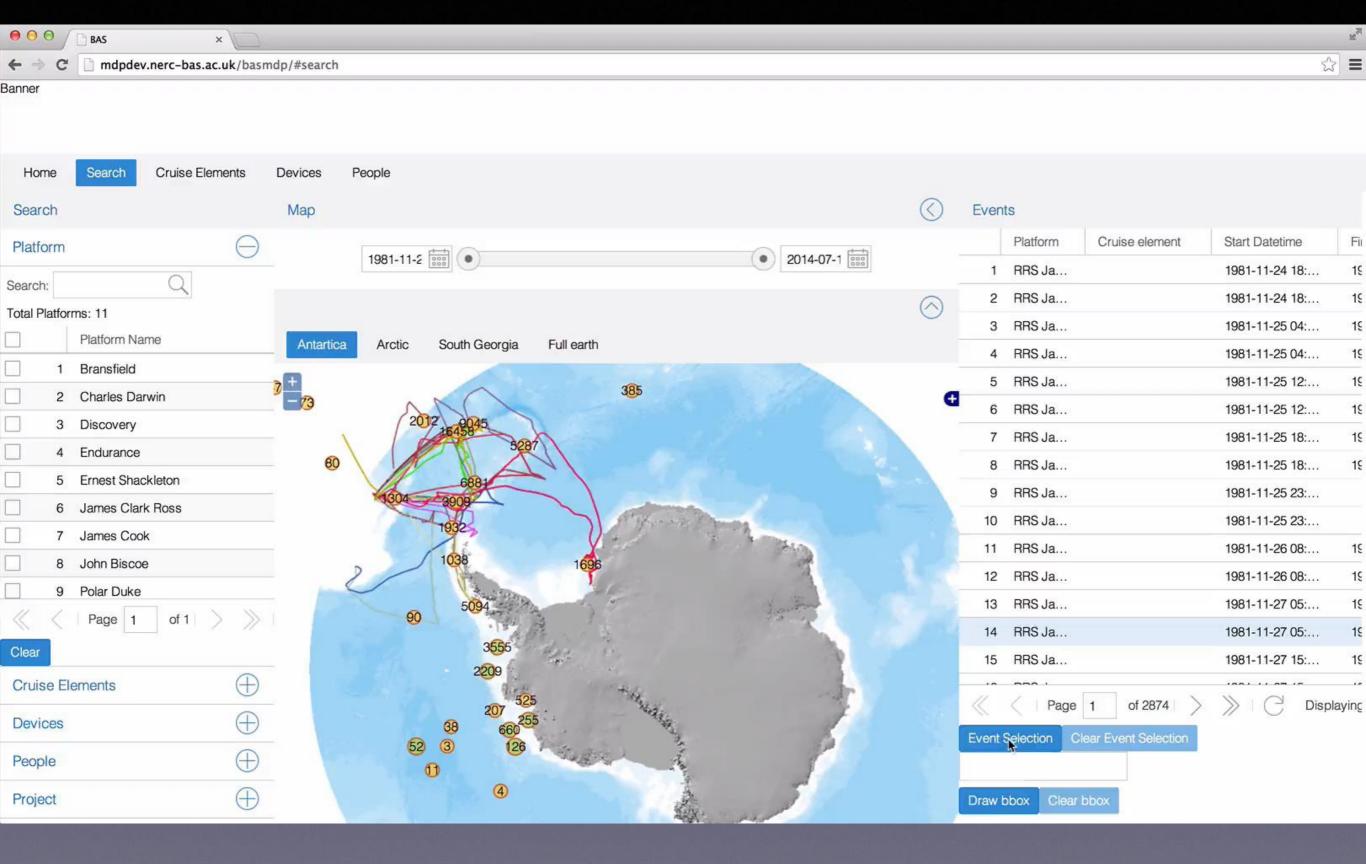
Case Study

Marine Data Portal at British Antarctic Survey (BAS), Cambridge, UK

Marine Data Portal - Video # 1



Marine Data Portal - Video # 2



Issues

- 1. Cruise Path generation and its visualisation
- 2. Visualisation of events
- 3. Displaying cruise path in various projections such as antarctic, arctic, south georgia and full map

Data

- Oracle database containing non spatial and spatial data
- Spatial data: GPS points per second for cruise path
- Data Volume: 65 years data
- Can PostgreSQL handle it?
- Data Migration GeoKettle

Cruise Path

- Generation of Cruise path using PostGIS spatial function
- Minute wise Cruise path WMS generation using GeoServer's SQL view

Events

Cluster Strategy:

- K-means point clustering at back end
- Front end OL clustering

Thank You