

pplied geoscience for our changing Earth

Shallow geological mapping of the Inner Moray Firth and adjacent areas

Alick Leslie, Heather Stewart & Clive Auton

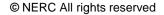


MAREMAP Marine Environmental Mapping Programme

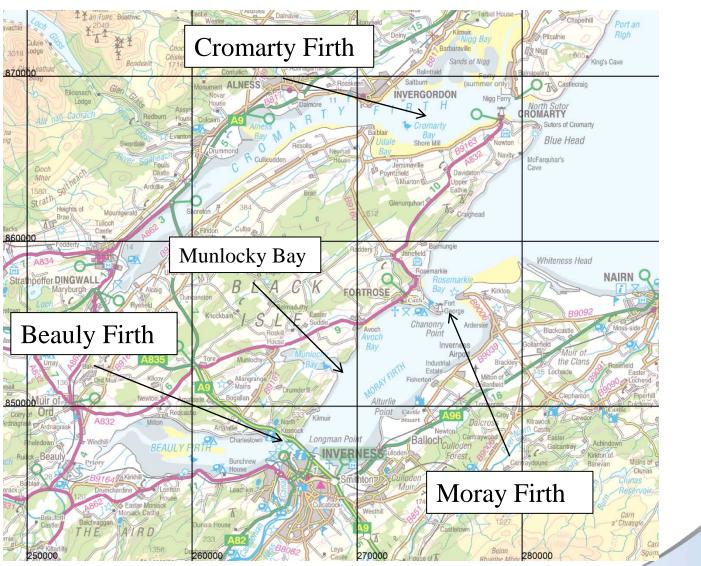


BGS Cruise 2012_1

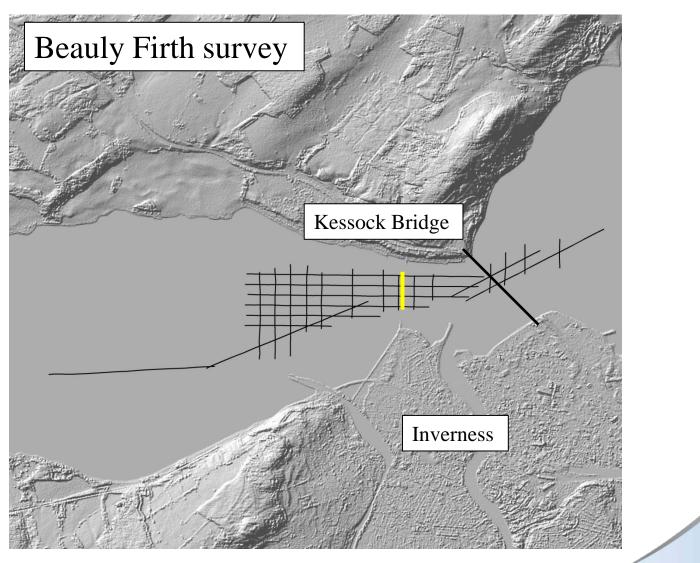
- Seismic and multibeam acquisition
- Data to help in understanding the glacial and post glacial history of the area
- Moray Firth area integrated with onshore modelling
- Other areas to be linked with onshore work in future
- Data will contribute to Sea Bed Sediments and Quaternary offshore map sheets
- Some revision of the solid geology map sheet













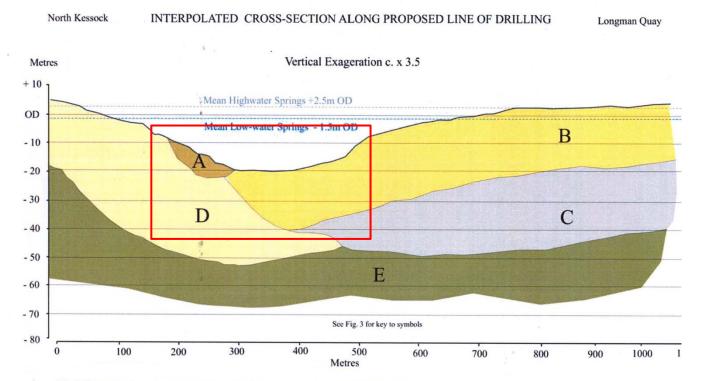
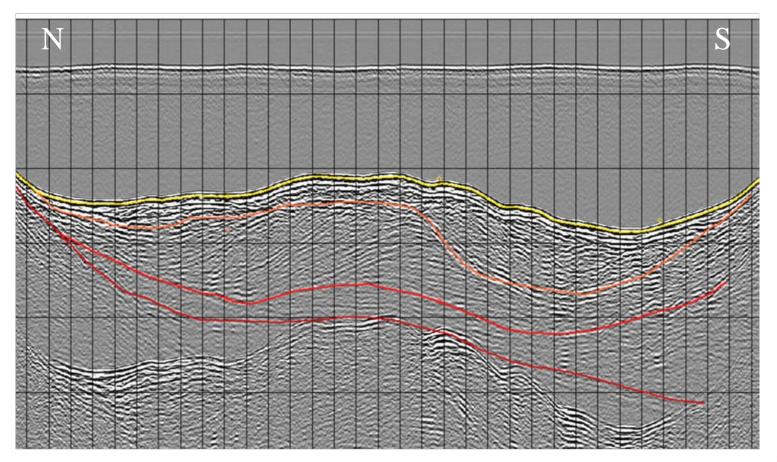


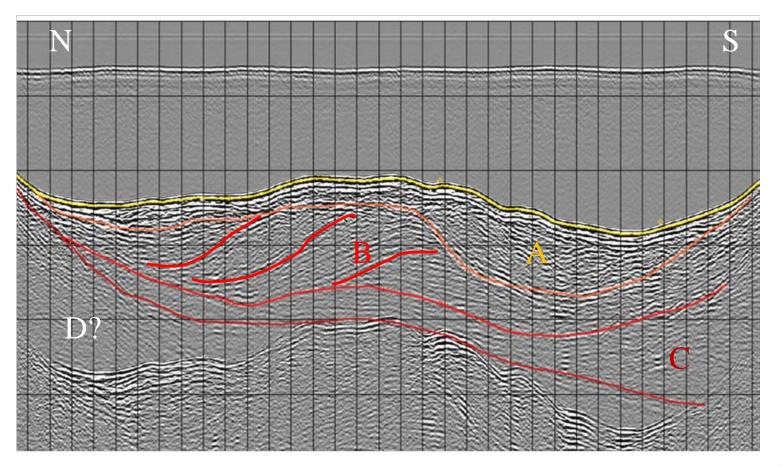
Fig. 5. Interpolated cross-section of the Superfical Deposits along the proposed drilling route





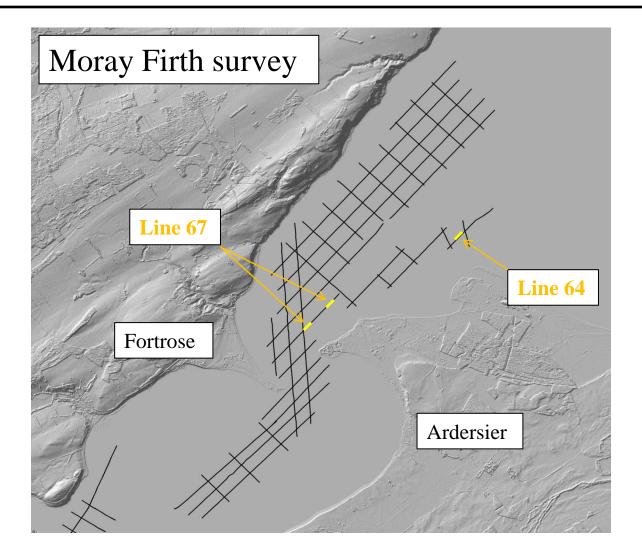






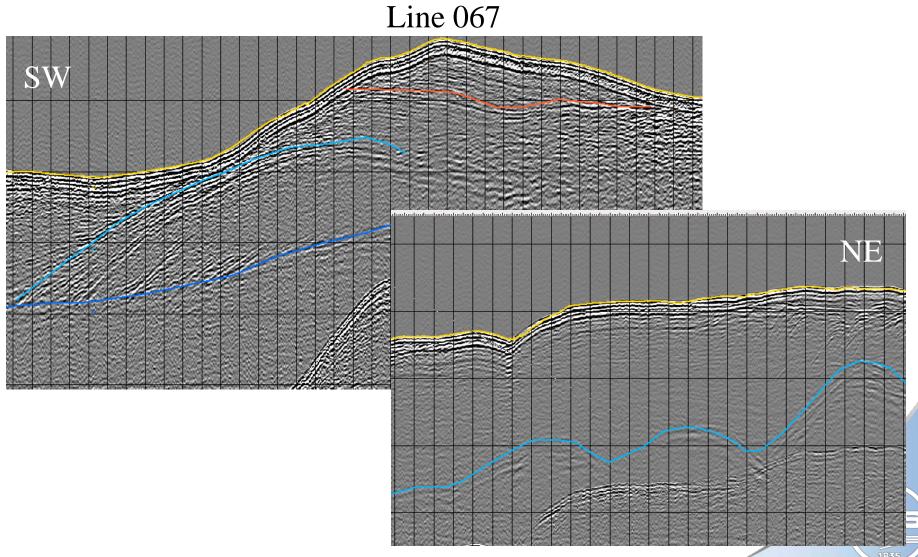




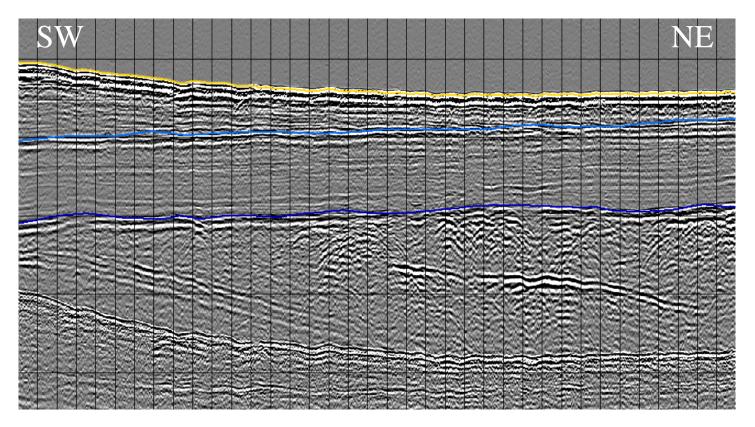






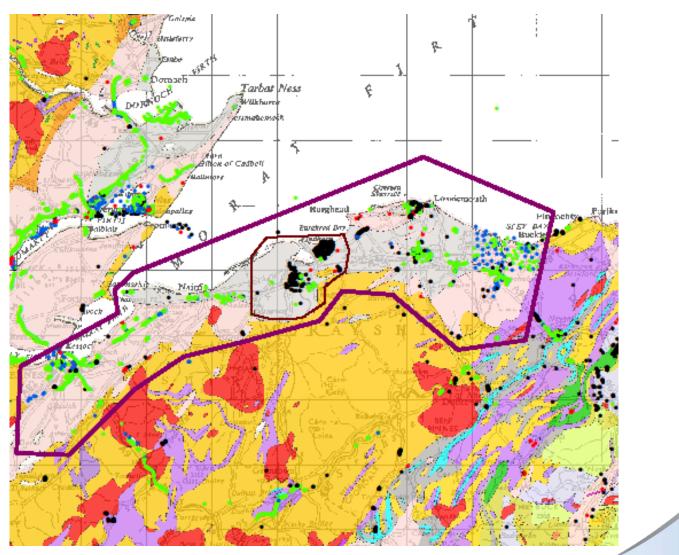




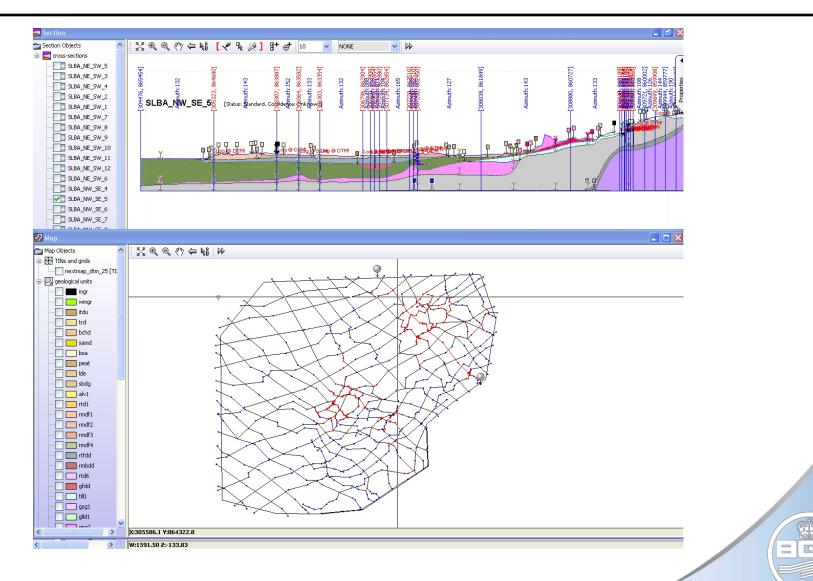




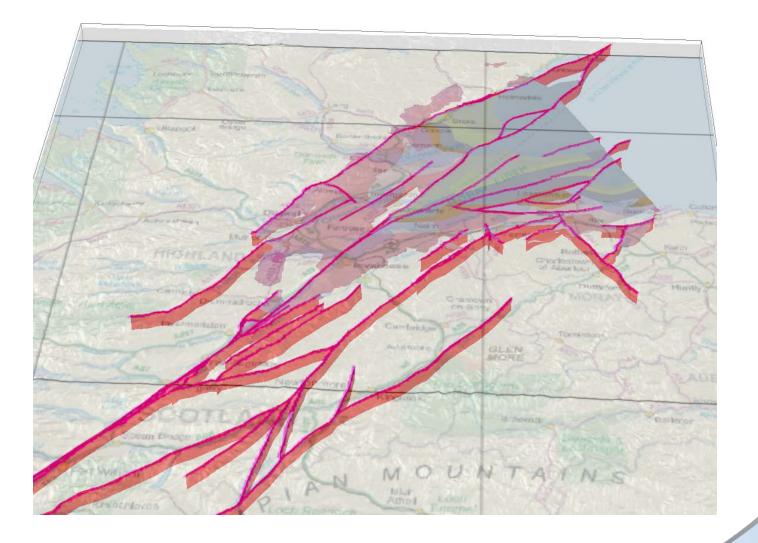






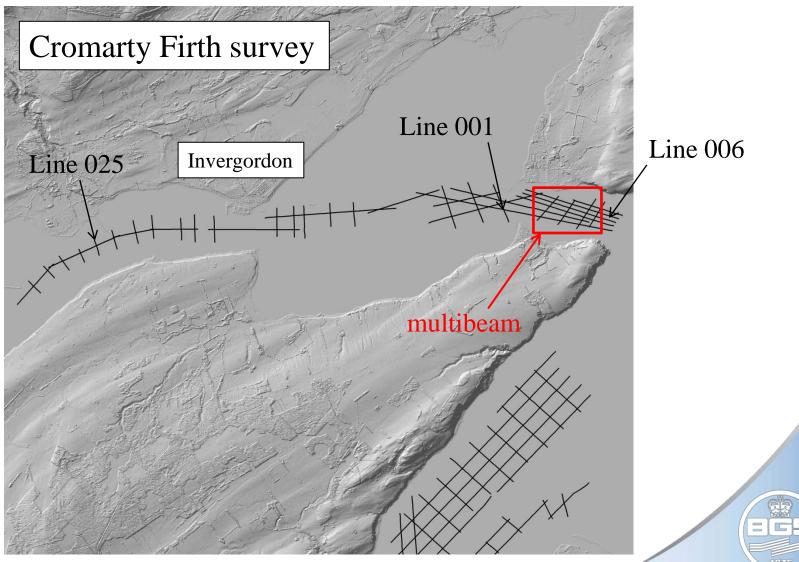




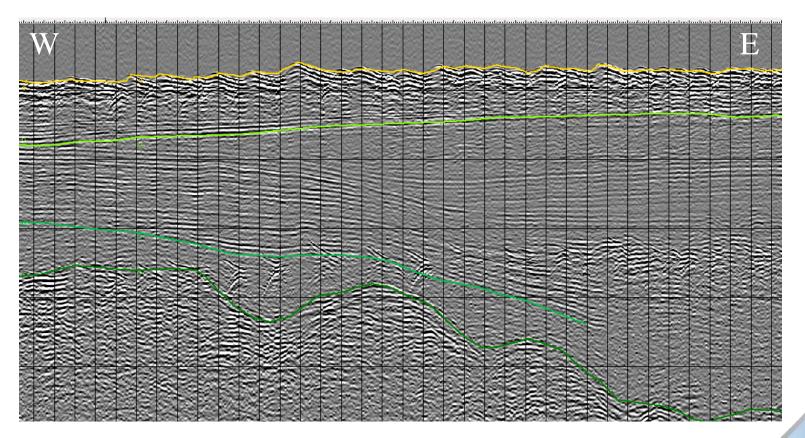






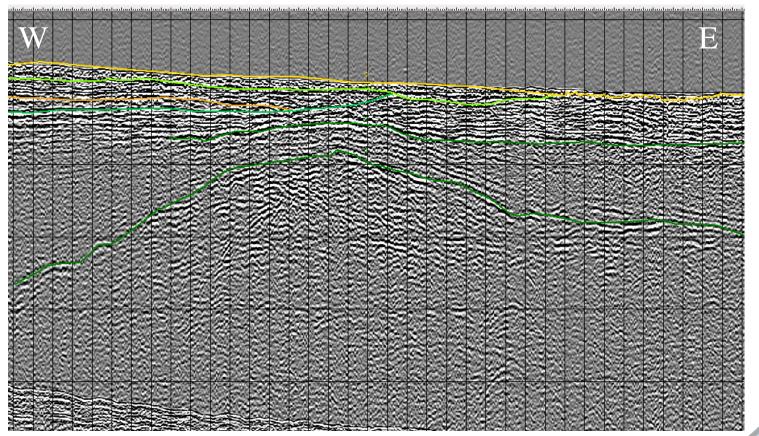






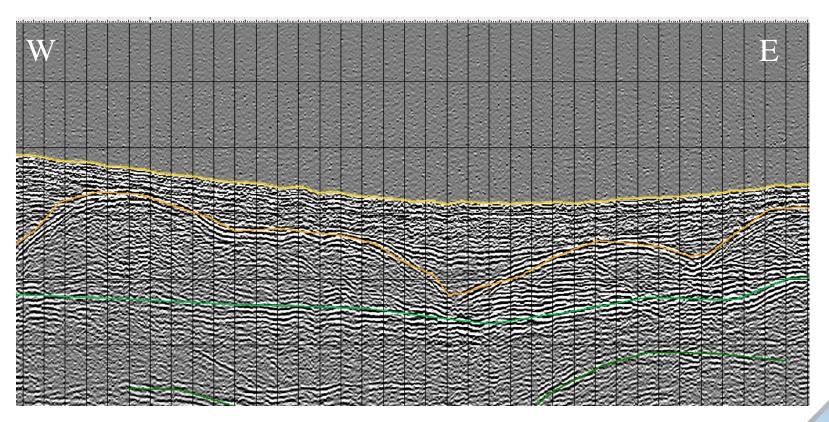






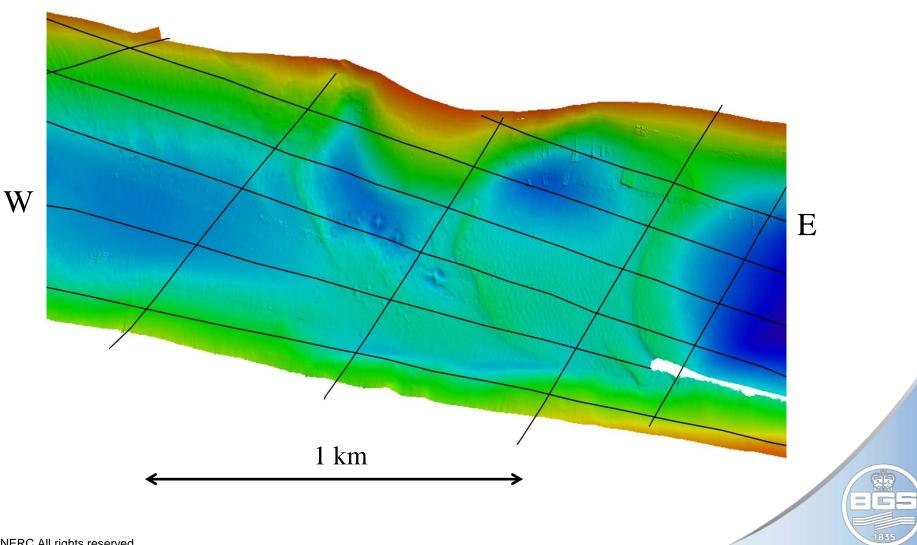




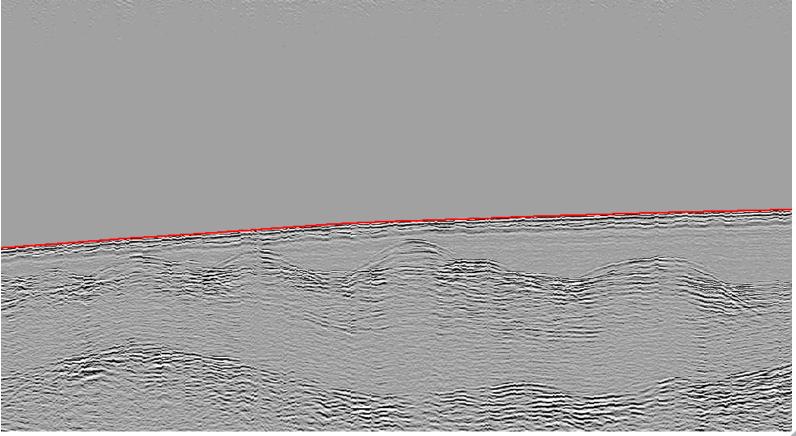
















Conclusions

- Some parts of the Beauly Firth allow good correlation of new seismic data with existing borehole records.
- There is some potential for combining offshore and onshore work in the area (see Auton et al. Poster).
- While late glacial sediments are commonly not resolved in the seismic data, post glacial to Holocene packages can be mapped out.
- This work, with additional multibeam data in other parts of the Moray firth, will lead to SBS, Quaternary and bedrock panels for the Maremap programme.

