



F-TRG newsletter December 2015

This month...

The F-TRG team has continued working on the Vercors fold-thrust belt dataset, focussing on regional-scale cross section construction. Field data will now be used to focus on field-scale structural variation & damage on individual anticlines.

Kick-off meeting

The official F-TRG kick-off meeting was held at Oil Search's Sydney offices on 2nd December. Introductory talks on fold-thrust and forelimb issues, the Vercors case study area, and an introduction to Papuan fold belt were given by Rob Butler, Hannah Watkins and Marcus Parish (Oil Search). Representatives of InterOil, Oil Search and Santos, along with Rob and Hannah from Aberdeen then spent the afternoon discussing future research directions and deliverables of the F-TRG. We'd like to thank participants for attending and participating in a successful meeting!

News and events

Rob attended the GSA Annual Meeting in Baltimore, USA, this month (1-4th November 2015). He presented a talk, co-authored by Clare, entitled 'Anchors aweigh: mapping on the edge of reason'.

Prior to the F-TRG kick-off meeting Rob and Hannah visited InterOil's office in Singapore to discuss their involvement in the research group. Presentations were given by Rob on fold-thrust belt issues and by Hannah on fracture characterisation and modelling in fold-thrust belts.

Following on from the F-TRG kick-off meeting, lunchtime seminars were arranged at Oil Search's office in Sydney. On 3rd December Rob presented two seminars titled 'Anchors aweigh: mapping on the edge of reason' and 'Interpreting faults and seismic imaging: how wrong can we be?' On 4th December Hannah presented a seminar titled 'Fracture formation in a fold-thrust belt', which was a synthesis of her PhD project.

Hannah, Clare and Rob will all be presenting at the Tectonic Studies Group conference in London on 6th-8th January 2016. Hannah, Clare and Rob will present posters: 'Discrete Fracture Network (DFN) modelling of a folded tight sandstone reservoir analogue'; 'The Structural Geology of the Bongwana Natural CO₂ migration'; 'Utilising Drones, Virtual Outcrop and Digital Data Analysis to Input into Fracture Models'; 'Interpreting deformation structures formed beneath submarine gravity flows-a kinematic boundary layer approach'. Rob will present a talk titled 'Basement-cover tectonics, structural inheritance and deformation migration in the outer part of orogenic belts: A view from the western Alps'.

The Fold-Thrust Research Group is now on Twitter! Follow us (@FoldThrust) for updates on F-TRG activities and relevant fold-thrust information.



Recent/relevant publications

Caër, T., Maillot, B., Souloumiac, P., Leturmy, P., Frizon de Lamotte, F. & Nussbaum, C., 2015. Mechanical validation of balanced cross-sections: The case of the Mont Terri anticline at the Jura front (NW Switzerland). *Journal of Structural Geology*, 75, 32-48.

Qayyum, M., Spratt, D. A., Dixon, J. M. & Lawrence, R. D., 2015. Displacement transfer from fault-bend to fault-propagation fold geometry: An example from the Himalayan thrust front. *Journal of Structural Geology*, 77, 260-276.

Surpless, B., Hill, N. & Beasley, C., 2015. The unusual 3D interplay of basement fault reactivation and fault-propagation-fold development: A case study of the Laramide-age Stillwell anticline, west Texas (USA). *Journal of Structural Geology*, 79, 42-56.

Next issue...

The format of the F-TRG newsletters is changing. Newsletters will now be issued four times per year instead of monthly. The next F-TRG newsletter will be available on our website (www.abdn.ac.uk/research/foldthrust) from March/April 2016.