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Professor Philip England

Chair of Geology

Email: philip@earth.ox.ac.uk

TEL: +44 (1865) 272000

FAX: +44 (1865) 272072

Research Profile

My research is focused on understanding the tectonics of the continents, through a combination of theoretical models with geological, seismological, and geodetic measurements of active deformation. I am also interested in the thermal and mechanical structure of subduction zones.

Teaching Profile

1st Year: Mechanics and Fluids

1st Year: Plate Tectonics, Heat Flow, and Convection.

3rd Year: Continental Tectonics.

4th Year: Santorini and Mainland Greece: Volcanology and Active Tectonics.

Selected Publications

PC England, RT Walker, B Fu, MA Floyd A bound on the viscosity of the Tibetan crust from the horizontality of palaeoshorelines. *Earth and Planetary Science Letters* 375, 44–56, 2013

Parks, M. M, Biggs, J., England, P. et al. Evolution of Santorini Volcano dominated by episodic fluxes of melt from depth. *Nature Geoscience*: 5, 749-754 doi:10.1038/NNGEO1562

Elliott, J. R., Nissen, E. K., England, P. C., et al. Slip in the 2010-2011 Canterbury earthquakes, New Zealand. *Journal of Geophysical Research-Solid Earth* 117 doi: 10.1029/2011JB008868

P England, J Jackson Uncharted Seismic Risk *Nature Geoscience* 4, 348-349, 2011.

England, P.C. and R. F. Katz. Global systematics of arc position. *Nature*, 468, E6-7 doi: 10.1038/nature09154, 2010.

England, P.C. and R. F. Katz. Melting above the anhydrous solidus controls the location of volcanic arcs. *Nature*, 495, 700-4 doi:10.1038/nature09417, 2010.

M.A. Floyd, H. Billiris, D. Paradissis, G. Veis, A. Avallone, P. Briole, S. McClusky, J-M. Nocquet, B. Parsons and P.C. England. A New Velocity Field for Greece: Implications for the Kinematics and Dynamics of the Aegean. *J. Geophys. Res.*, doi:10.1029/2009JB007040, 2010.

J.R. Elliott, R.J. Walters, P.C. England, J.A. Jackson, Z. Li and B.E. Parsons. Extension on the Tibetan plateau: recent normal faulting measured by InSAR and body wave seismology. *Geophys. J. Int.* doi/10.1111/j.1365-246X.2010.04754.x, 2010.

Walters, R. J., J. R. Elliott, N. D'Agostino, P. C. England, I. Hunstad, J. A. Jackson, B. Parsons, R. J. Phillips, G. Roberts, The 2009 L'Aquila earthquake (central Italy): A source mechanism and implications for seismic hazard, *Geophys. Res. Lett.*, 36, L17312, doi: 10.1029/2009GL039337, 2009.

Shaw B., Ambraseys N.N., England P.C., Floyd M.A., Gorman G.J., Higham T.F.G., Jackson



J.A., Nocquet J.M., Pain C.C., Piggott M.D. Eastern Mediterranean tectonics and tsunami hazard inferred from the AD 365 earthquake. *Nature Geosci*, 1, 268-276, 2008.

England, P., Molnar, P. and Richter, F. John Perry's neglected critique of Kelvin's age for the Earth: A missed opportunity in geodynamics. *GSA Today* v. 17, No 1, 2007

England, P. and Molnar, P. Late Quaternary to decadal velocity fields in Asia, *J. Geophys. Res.* 110, B12401, doi:10.1029/2004JB003541, 2005.

Whitehouse, P., England, P. and Houseman, G., A Physical Model for the Motion of the Sierra Block, *Earth Planet. Sci. Lett.*, 237, 590-600. doi:10.1016/j.epsl.2005.03.028, 2005

Wright, T. J., Parsons, B. E., England, P. C. and Fielding, E. J., InSAR Observations of Low Slip Rates on the Major Faults of Western Tibet, *Science*, Vol. 305, pp. 236 - 239.

England, P. and Wilkins, C., A Simple Analytical Approximation to the Temperature Structure in Subduction Zones, *Geophys. J. Int.*, 159, 1138-1154, 2004.

England, P., R. Engdahl and W. Thatcher Systematic variation in the depths of slabs beneath arc volcanoes, *Geophys. J. Int.*, 156, 377-408, 2004

Hunstad, I., G. Selvaggi, N. D'Agostino, P. England, P. Clarke, and M. Pierozzi. Geodetic strain in peninsular Italy between 1875 and 2001, *Geophys. Res. Lett.*, 30(4), 1181, doi:10.1029/2002GL016447, 2003.

Other Information

I am no longer Head of Department.

If you wish to contact the current Head, please email hod@earth.ox.ac.uk.