

JOHN A. COLLINS

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Education:

B.Sc. 1979 Nat. Univ. of Ireland, Univ. College Cork (Geology)

M.Sc. 1981 Univ. Coll. North Wales, Bangor (Physical Oceanography)

Ph. D. 1989 MIT/WHOI (Marine Geophysics), (G.M. Purdy and T. Brocher, advisors).

Professional Experience:

October 2011 – Present, Senior Research Specialist, WHOI.

October 2003 – October 2011, Research Specialist, WHOI.

April 1999 – October 2003: Associate Scientist, WHOI.

June 1992 – April 1999: Research Associate, WHOI.

June 1990 – May 1992: Post-Doctoral Investigator, (G. M. Purdy, sponsor).

November 1988 – May 1990: Post-Doctoral Fellow at Research School of Earth Sciences, Australian National University, Canberra, Australia (B.L.N. Kennett, sponsor).

Five Most Relevant Products

Collins, J.A., F.L. Vernon, J.A. Orcutt, R.A. Stephen, K.R. Peal, F. B. Wooding, F. N. Spiess, and J. A. Hildebrand (2001), Broadband seismology in the oceans: lessons from the Ocean Seismic Network Pilot Experiment, *Geophys. Res. Lett.*, *28*, 49–52.

Collins, J.A., F.L. Vernon, J.A. Orcutt, and R.A. Stephen (2002), Upper mantle structure beneath the Hawaiian swell: constraints from the Ocean Seismic network Pilot Experiment, *Geophys. Res. Lett.*, *29*(11), 10.1029/2001GL013302.

Sutherland, F.H., F.L. Vernon, J.A. Orcutt, **J.A. Collins**, and R.A. Stephen (2004), Results from OSNPE: Low Detection Threshold Magnitudes for Ocean-Bottom Recording, *Bull. Seismo. Soc. America*, *94*, 5, 1868–1878.

Stephen, R.A., F.N. Spiess, **J.A. Collins**, J.A. Hildebrand, J.A. Orcutt, K.R. Peal, F.L. Vernon, and F.B. Wooding (2003), Ocean Seismic Network Pilot Experiment. *Geochem. Geophys. Geosyst.*, *4*, 1092, doi: 10.1029/2002GC000485.

Collins, J.A., C. J. Wolfe, and G. Laske (2012), Shear wave splitting at the Hawaiian hot spot from the PLUME land and ocean bottom seismometer deployments, *Geochem. Geophys. Geosyst.*, *13*, Q02007, doi:10.1029/2011GC003881.

Five Other Significant Products

Wolfe, C.J., S.C. Solomon, G. Laske, **J.A. Collins**, R.S. Detrick, J.A. Orcutt, D. Bercovici, E. H. Hauri (2009), Mantle Shear-Wave Velocity Structure Beneath the Hawaiian Hot Spot, *Science*, *326*, 1388–1390.

Collins, J.A., D.K. Smith, and J.J. McGuire (2012), Seismicity of the Atlantis Massif detachment fault, 30°N at the Mid-Atlantic Ridge, *Geochem. Geophys. Geosyst.*, *13*, Q0AG11, doi:10.1029/2012GC004210.

McGuire, J.J., **J.A. Collins**, P. Gouedard, E.C. Roland, D. Lizarralde, M.S. Boettcher, M.D. Behn, and R. van der Hilst, The End of a Seismic Cycle on the Gofar Transform Fault, East Pacific Rise (2012), *Nature Geosciences*, *5*, 336–341, doi:10.1038/ngeo1454.

Yang, Z., A.F. Sheehan, **J.A. Collins**, and G. Laske (2012), The character of seafloor ambient noise recorded offshore New Zealand: Results from the MOANA ocean bottom seismic experiment, *Geochem. Geophys. Geosyst.*, *13*, Q10011, doi:10.1029/2012GC004201.

Collins, J. A., and P.H. Molnar (2014), *P_n* anisotropy beneath the South Island of New Zealand and implications for distributed deformation in continental lithosphere, *J. Geophys. Res. Solid Earth*, 119, 7745-7767, doi:10.1002/2014JB011233.

Synergistic Activities

Chair, IRIS Ad-Hoc Panel to Review GSN Vault Sensor Specification, 2015 - 2016.

Chair, IRIS Instrumentation Committee, 2004 – 2013.

Co-Convener IRIS-Sponsored Seismic Instrumentation Technology Symposia: May 2013, Albuquerque, NM; June 2011, Albuquerque, NM; and November 2009, Palm Springs, CA.

Member IRIS PASSCAL Standing Committee, 2002-2007.

Participated in 41 ocean-going research cruises, 22 as chief-scientist/co-chief scientist.