

CURRICULUM VITAE

Rob. L. Evans

Marine Geophysicist
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Education

1985-1988	B.Sc. (Hons) Physics	Bristol University
1988-1991	Ph.D. Marine Geophysics	Bullard Labs, Cambridge University
1991-1994	Post Doctoral Fellow	Dept. of Physics, University of Toronto.

Graduate Supervisor: Dr. Martin. C. Sinha (Cambridge)

Postdoctoral Sponsor: Prof. R. Nigel Edwards (Toronto)

Professional Experience

1994-1998	Assistant Scientist	Dept. Geology and Geophysics, W.H.O.I.
1998-2002	Associate Scientist	Dept. Geology and Geophysics, W.H.O.I.
2002-2011	Associate Scientist (Tenured)	Dept. Geology and Geophysics, W.H.O.I.
2009	Visiting Scientist	Institute de Physique du Globe de Paris
2011-	Senior Scientist	Dept. Geology and Geophysics, W.H.O.I.
2015	Visiting Scientist	Earthquake Research Institute, Tokyo, Japan.
2015	Visiting Professor	Kobe University, Japan
2017-2023	Department Chair	Dept. Geology and Geophysics, W.H.O.I.
2023-2025	Interim VP for Academic Programs and Dean	W.H.O.I.

Professional Societies

AGU, IAGA Division VI

Research Interests

The use of controlled source electromagnetic (CSEM) methods to measure the electrical resistivity of the seafloor in deep water, continental shelf and coastal environments.

Natural source electromagnetic (EM) techniques (i.e., Magnetotellurics (MT)) in oceanic and continental environments to look deeper into the mantle.

Active areas of research include:

- Fluid transport and Melting processes at subduction zones.
- Structure of the continental and oceanic lithosphere, including rifts and oceanic transform faults
- Structural controls on groundwater discharge to the continental shelf.

Professional Activities and Outside Committees

Convener of Special Sessions, Fall AGU, 2001(1); 2011(1); 2012(3)

Organized workshop on coastal change, WHOI, 2004.

Congressional Testimony, House Subcommittee on Fisheries and Oceans, 2005.

EMSOC Steering Committee Member 2005-2009.

Earthscope EM working Group Member 2005-2010.

Offshore Survival and Helicopter Underwater Egress Training, 2006.

Continental Dynamics Panel, NSF, 2009; 2012.

Secretary of AGU Ocean Sciences Section (Marine Geology and Geophysics) 2010-2012.

AGU Fall Meeting Planning Committee, 2010-2012.

NERC Geophysical Equipment Facility Steering Committee Member 2010-2015.

Science advisor to Mass. Coastal Zone Management on Beach Scraping at Plum Island 2010.

Member of the Interagency Transportation, Land Use, and Climate Change Cape Cod Pilot Project (Mass. Department of Transport), 2010.

GeoPRISMS Steering and Oversight Committee 2011-2014.

GeoPRISMS Planning Workshop, East African Rift System, Morristown, NJ, Co-Convenor, 2012.

Associate Editor, J. Geophys. Res., Nov 1. 2012 – 2020.

Editorial Board Member, Marine Geophysical Research, Jan 2013-2020.

Technical Advisory Committee, MassDOT-FHWA pilot project: climate change and extreme weather vulnerability assessments and adaptation options for the central artery, Boston, MA, 2013-2015

Amphibious Array Steering Committee, 2014-2015.

“Future of the Amphibious Array” meeting, co-convenor, Snowbird, Utah, October, 2014.

IRIS Electromagnetic Advisory Committee (EMAC), Chair, 2014-2018.

IRIS Pascal Standing Committee member 2019-2022.

Leadership skills for science and engineering faculty, 2 day course, MIT professional Education, 2019.

SMART Summer School, Understanding marine hydrogeology through the lens of geophysics; bridging the gap across the coastal zone, Malta, July 2019.

DRIAR Training School: Makerere University, Kampala, Uganda, July 2022.

Earthscope Consortium, PI Instrumentation Advisory Committee, 2023-

Awards

WHOI Coastal Ocean Institute Fellowship 2006-2009

SERDP Project of the Year, RC-1702 Shoreline Evolution and Coastal Resiliency at Two Military Installations: Investigating the Potential for the Loss of Protecting Barriers, 2014.

Journal Publications

(* Denotes Student Authored Publication)

Denotes Post-Doc Authored Publication)

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Citation index at: <http://scholar.google.com/citations?user=sMjFODAAAAAJ>

1. **Evans, R.L.**, S.C. Constable, M.C. Sinha, C.S. Cox and M.J. Unsworth, Upper-Crustal Resistivity Structure of the East Pacific Rise Near 13N, *Geophys. Res. Letts.*, 18, 1917-1920, 1991.
2. **Evans, R.L.** and M.E. Everett, Magnetotellurics and Mid-Ocean Ridge Melt Transport: A 2-D Perspective. *in* Mantle Flow and Melt Generation at Mid-Ocean Ridges Geophysical Monograph 71, A.G.U., 353-361, 1992.
3. **Evans, R.L.**, M.C. Sinha, S.C. Constable and M.J. Unsworth, On the electrical nature of the axial melt zone on the East Pacific Rise near 13N, *J. Geophys. Res.*, 99, 577-589, 1994.
4. **Evans, R.L.** and M.E. Everett, Discrimination of hydrothermal mound structures using transient EM methods, *Geophys. Res. Letts.*, 21, 501-504, 1994.
5. **Evans, R.L.**, Constraints on the large scale porosity of young oceanic crust from seismic and resistivity data. *Geophys. J. Int.*, 119, 869-879, 1994.
6. **Evans, R.L.**, A seafloor gravity profile across the TAG hydrothermal mound, *Geophys. Res. Letts.*, 23, 3447-3450, 1996.
- 7*. Cairns G., **R.L. Evans** and R.N. Edwards, A time domain electromagnetic survey of the TAG hydrothermal mound, *Geophys. Res. Letts.*, 23, 3455-3458, 1996.
8. Becker, K., R.P. Von Herzen, J. Kirklin, **R.L. Evans**, M. Kinoshita, O. Matsubayashi, D. Kadko, R. Mills., A. Schultz and P. Rona, Observations of conductive heatflow from submersible surveys at the TAG active hydrothermal mound, *Geophys. Res. Letts.*, 23, 3463-3466, 1996.
9. Wannamaker, P.E., A.D. Chave, J.R. Booker, A.G. Jones, J.H. Filloux, Y. Ogawa, M. Unsworth, P. Tarits and **R.L. Evans**, Sutures and deep physical state of the SE US Atlantic Margin: The southern Appalachians magnetotelluric experiment, *EOS*, 77, 329-333, 1996.
- 10*. Liming Yu, **R.L. Evans** and R. N. Edwards, Transient electromagnetic responses in seafloor with tri-axial anisotropy, *Geophys. Journal Int.*, 129, 292-304, 1997.
11. **Evans, R.L.**, S. C. Webb, M. Jegen and K. Sananikone, Hydrothermal circulation at the Cleft-Vance overlapping spreading center: results of a Magnetometric Resistivity Survey, *J. Geophys. Res.*, 103, 12,321-12,338, 1998.
12. **Evans, R.L.**, L.K. Law, B. St Louis, S. Cheesman and K. Sananikone, The Shallow Porosity Structure of the Eel Shelf, Northern California: Results of a Towed Electromagnetic Survey, *Marine Geology*, 154, 211-226, 1999.
13. **Evans, R.L.**, P. Tarits, A.D. Chave, A. White, G. Heinson, J.H. Filloux, H. Toh, N. Seama, H. Utada, J.R. Booker and M. Unsworth, Asymmetric electrical structure in the mantle beneath the East Pacific Rise at 17S, *Science*, 286, 756-759, 1999.

14. **Evans, R.L.**, L.K. Law, B. St Louis and S. Cheesman, Buried paleo-channels on the New Jersey continental margin: channel porosity structures from electromagnetic surveying, *Marine Geology*, 170, 381-394, 2000.
15. Hirth, G., **R.L. Evans** and A.D. Chave, Comparison of Continental and Oceanic Mantle Electrical Conductivity: Is the Archean Lithosphere Dry? *Geochem. Geophys. Geosyst.*, 1, doi:10.1029/2000GC000048, 2000.
- 16*. Hoefel, F. and **R.L. Evans**, Impact of Low Salinity Porewater on Seafloor Electromagnetic Data: a Means of Detecting Submarine Groundwater Discharge? *Estuarine, Coastal and Shelf Science*, 52, 179-189, 2001.
17. Jones, A.G., I.J. Ferguson, A.D. Chave, **R.L. Evans** and G.W. McNeice, The electric lithosphere of the Slave craton, *Geology*, 29, 423-426, 2001.
18. **Evans, R.L.**, Measuring the Shallow Porosity Structure of Sediments on the Continental Shelf: A comparison of an Electromagnetic Approach with Cores and Acoustic Backscatter, *J. Geophys. Res.*, 106 (C11), 27047-27060, 2001.
19. **Evans, R.L.**, A.D. Chave, J.R. Booker, On the Importance of Offshore Data for Magnetotelluric Studies of Ocean-Continent Subduction Systems, *Geophys. Res. Letts.*, 29, 10.1029/2001GL013960, 2002.
20. **Evans, R.L.**, S.C. Webb and the RIFT-UMC Team, Crustal Resistivity Structure at 9 50N on the East Pacific Rise: Results of an Electromagnetic Survey, *Geophys. Res. Letts.*, 29, 10.1029/2001GL014106, 2002.
21. **Evans, R.L.** and D. Lizarralde, Geophysical Evidence for Karst Formation Associated with Offshore Groundwater Transport: An Example from North Carolina, *Geochem. Geophys. Geosyst.*, 4(8), 10.1029/2003GC000510, 2003.
22. Jones, A.G., P. Lezaeta, I.J. Ferguson, A.D. Chave, **R.L. Evans**, X. Garcia and J. Spratt, The electrical structure of the Slave Craton, *Lithos*, 71, 505-527, 2003.
23. Sinha, M.C. and **R.L. Evans**, Geophysical constraints upon the thermal regime of the oceanic crust, in *Mid-Ocean Ridges; Hydrothermal Interactions Between the Lithosphere and Oceans*, *Geophys. Monogr. Ser. Vol 148*, edited by C.R. German, J. Lin, and L.M. Parsons, pp19-62, AGU Washington, 2004.
24. Goff, J.A., L.A. Mayer, P. Traykovski, I.V. Buynevich, R. Wilkens, R. Raymond, G. Glang, **R.L. Evans**, H. Olsen, and C. Jenkins, Detailed investigation of sorted bedforms, or “rippled scour depressions”, within the Martha’s Vineyard Coastal Observatory, Massachusetts, *Continental Shelf Res.*, 25, 461-484, 2005.
25. **Evans, R.L.**, G. Hirth, K. Baba, D. Forsyth, A. Chave and R. Mackie, Geophysical controls from the MELT area for compositional controls on oceanic plates, *Nature*, 437, 249-252, 2005.

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- 27#. Baba, K. A.D. Chave, **R.L. Evans**, G. Hirth and R. Mackie. Mantle dynamics beneath the East Pacific Rise at 17 S: Insights from the Mantle Electromagnetic and Tomography (MELT) experiment, *J. Geophys. Res.*, 111, B02101, doi:10.1029/2004JB003598, 2006.
28. Hamilton, M.P., A.G. Jones. **R.L. Evans**, S. Evans, C.J.S. Fourie, X. Garcia, A. Mountford, J. Spratt and the SAMTEX Team, Electrical anisotropy of South African lithosphere compared with seismic anisotropy from shear-wave splitting analyses, *Phys. Earth Planet. Ints*, 158, 226-239, 2006.
- 29#. Baba, K., P. Tarits, A.D. Chave, **R.L. Evans**, G. Hirth, and R. L. Mackie, Electrical structure beneath the northern MELT area of the East Pacific Rise, 15°45'S, *Geophys. Res. Letts*, 33, L22301, 10.1029/2006GL027528, 2006.
30. Mulligan, A., **R.L. Evans**, D. Lizarralde, The role of paleochannels in groundwater/seawater exchange, *J. of Hydrology*, 335, 313-329, 2007.
31. **Evans, R.L.**, Using controlled source electromagnetic techniques to map the shallow section of seafloor: From the coastline to the edges of the continental slope, *Geophysics*, 72, 105-116, 2007.
- 32#. Lezaeta, P., A.D. Chave, A. Jones, **R.L. Evans**, Source field effects in the auroral zone: Evidence from the Slave craton (NW Canada), *Phys. Earth Planet. Ints.*, 164, 21-35, 2007.
33. Ashton, A., J. Donnelly, **R.L. Evans**, A Discussion of the Potential Impacts of Climate Change on the Shorelines of the Northeastern USA, *Mitigation and Adaptation of Strategies for Global Change*, 13, 719-743, 2008.
- 34*. Ellis, M., **R.L. Evans**, D. Hutchinson, P. Hart, J. Gardner, R. Hagen, Electromagnetic Surveying of Seafloor Mounds in the Gulf of Mexico, *Marine and Petroleum Geology*, doi:10.1016/j.marpetgeo.2007.12.006, 2008.
35. Eaton, D.W., F. Darbyshire, **R.L. Evans**, H. Grütter, A. Jones, and X. Yuan, The elusive lithosphere-asthenosphere boundary (LAB) beneath cratons, doi: doi:10.1016/j.lithos.2008.05.009, *Lithos*, 109, 1-22, 2009.
36. Jones, A.G., **R.L. Evans**, and D.W. Eaton Velocity-conductivity relationships for mantle mineral assemblages in Archean cratonic lithosphere based on extremal bounds, doi: 10.1016/j.lithos.2008.10.014, *Lithos*, 109, 131-143, 2009.
37. Jones, A.G., **R. L. Evans**, M.R. Muller, M.P. Hamilton, M.P. Miensoopust, X. Garcia, P. Cole, T. Ngwisanyi, D. Hutchins, C.J. S. Fourie, M. Doucoure, T. Aravanis, Wayne Pettit, Sue Webb, Jan Wasborg, and The SAMTEX Team, Area selection for diamonds using magnetotellurics: Examples from southern Africa, *Lithos*, 112, supplement 1, 83-92, 2009.

38. Muller, M.R., A.G. Jones, **R.L. Evans**, H.S. Grütter, C. Hatton, X. Garcia, M.P. Hamilton, M.P. Miensopust, P. Cole, T. Ngwisanyi, D. Hutchins, C.J. Fourie, H.A. Jelsma, T. Aravanis, W. Pettit, S.J. Webb, J. Wasborg, and The SAMTEX Team, Lithospheric structure, evolution and diamond prospectivity of the Rehoboth Terrane and western Kaapvaal Craton, southern Africa: constraints from broadband magnetotellurics, *Lithos*, 112, supplement 1, 93-105, 2009.
39. Chen, C.-W., S. Rondenay, **R.L. Evans** and D.B. Snyder, Geophysical detection of relict metasomatism from an Archaean subduction zone, *Science*, 326, 1089-1091, 2009.
40. Cohen, D., M. Person, P. Wang, C.W. Gable, D. Hutchinson, A. Marksamer, B. Dugan, H. Kooi, K. Groen, D. Lizarralde, **R.L. Evans**, F.D. Day-Lewis, and J.W. Lane, Origin and Extent of Fresh Paleowaters on the Atlantic Continental Shelf, *Groundwater*, 48, 143-158, 2009.
41. **Evans, R.L.**, J. Escartin and M. Cannat, A Short Electromagnetic Profile Across the Kane Megamullion, *Geophysical. Res. Letts.*, 37, doi:10.1029/2010GL043813, 2010.
42. Matsuno T., N. Seama, **R.L. Evans**, A.D. Chave, K. Baba, A. White, T.-N. Goto, G. Heinson, G. Boren, A. Yoneda, and H. Utada, Mantle electrical resistivity structure beneath the central Mariana subduction system, *Geochem., Geophys., Geosyst.*, 11, Q09003, doi:10.1029/2010GC003101, 2010.
43. Miensopust, M.P., A.G. Jones, M R. Muller, X. Garcia, and **R.L. Evans**, Lithospheric structures and geometries in northeastern Botswana revealed through SAMTEX magnetotelluric profiling, *J. Geophys. Res.*, 116, B02401, doi:10.1029/2010JB007740, 2011.
44. **Evans, R.L.**, A. Jones, X. Garcia, M. Muller, M. Hamilton, S. Evans, S. Fourie, J. Spratt, S. Webb, H. Jelsma, D. Hutchins, The Electrical Lithosphere beneath the Kaapvaal Craton, Southern Africa, *J. Geophys. Res.*, 116, doi:10.129/2010JB007883, 2011.
45. **Evans, R.L.** and D. Lizarralde, The Competing Impacts of Geology and Groundwater on Electrical Resistivity Around Wrightsville Beach, N.C., *Continental Shelf Research*, 31, 841-848, 2011.
46. Szpak, M. T., X. Monteys, S. O'Reilly, A.J. Simpson, X. Garcia, **R.L. Evans**, C.C.R. Allen, D.J. McNally, D. Courtier-Murias, B.P. Kelleher, Geophysical and geochemical survey of a large marine pockmark on the Malin Shelf, Ireland, *Geochem., Geophys., Geosyst.*, 13, Q01011, doi:10.1029/2011GC003787, 2012.
47. Jones, A.G., J. Fulla, **R. L. Evans** and M.M. Muller, Water in cratonic lithosphere: Calibrating laboratory-determined models of electrical conductivity of mantle minerals using geophysical observations, *Geochem., Geophys., Geosyst.*, doi:10.1029/2012GC004055, 2012.
48. Key, K., S. Constable, T. Matsuno, **R.L. Evans**, D. Myer, Electromagnetic detection of plate hydration due to bending faults at the Middle America Trench, *Earth and Planet. Sci. Letts.*, 351-352, 45-53, 2012.

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50. Naif, S., K. Key, S. Constable, **R.L. Evans**, Melt-rich channel observed at the lithosphere-aesthenosphere boundary, *Nature*, 495, 356-359, doi:10.1038/nature11939, 2013.
51. Khoza, D., A.G. Jones, M.R. Muller, **R.L. Evans**, S.J. Webb, M.P. Miensoopust and the SAMTEX Team, Tectonic model of the Limpopo belt: constraints from magnetotelluric data, *Precambrian Research*, 226, 143-156, 2013.
52. Jones, A.G., S. Fishwick, **R.L. Evans**, M. M. Muller, and J. Fulla, Velocity-conductivity relations for cratonic lithosphere and their application: Example of Southern Africa, *Geochem., Geophys., Geosyst.*, doi:10.1002/ggge.20075, 2013.
53. Pommier, A., **R.L. Evans**, K. Key, J. A. Tyburczy, S. Mackwell and J. Elsenbeck, Prediction of Silicate Melts Viscosity from Electrical Conductivity: A Model and its Geophysical Implications, *Geochem., Geophys., Geosyst.*, doi:10.1002/ggge.20103, 2013.
- 54.* Carruthers, E.A., D.P. Lane, **R.L. Evans**, J.P. Donnelly, A.D. Ashton, Quantifying Overwash Flux in Barrier Systems: An Example from Martha's Vineyard, Massachusetts, USA., *Marine Geology*, 343, 15-28, doi:10.1016/j.margeo.2013.05.013, 2013.
55. Khoza, D., A.G. Jones, M. Muller, **R.L. Evans**, M. Miensoopust, S. Webb, Lithospheric structure of an Archean craton and adjacent mobile belt revealed from 2D and 3D inversion of magnetotelluric data: example from southern Congo craton in northern Namibia, *J. Geophys. Res.*, 118, 4378-4397, doi:10.1002/jgrb.50258, 2013.
- 56.# Matsuno, T., A.D. Chave, A.G. Jones, M.M. Muller, **R.L. Evans**, Robust magnetotelluric inversion, *Geophys. J. Int.*, doi:10.1093/gji/ggt484, 196, 1365-1374, 2014.
57. Hsu, S.K. C.-W. Chiang, **R. L. Evans**, C.-S. Chen, S.-D. Chiu, Y.-F. Ma, S.-C. Chen, C.-H. Tsai, S.-S. Lin, and Y. Wang, Marine controlled source EM method used for the gas-hydrate investigation in the area off SW Taiwan, *J. Asian Earth Sciences*, doi:10.1016/j.jseaes.2013.12.001, 92, 224-232, 2014.
58. Garcia, X., X. Monteys, **R.L. Evans**, M.T. Szpak, Constraints on a shallow offshore gas environment determined by a multidisciplinary geophysical approach: The Malin Sea, NW Ireland, *Geochem., Geophys., Geosyst.*, 15, 867-885, doi:10.1002/2013GC005108, 2014.
59. **Evans, R.L.**, P.E. Wannamaker, R.S. McGary, J. Elsenbeck, Electrical Structure of the Central Cascadia Subduction Zone: The EMSLAB Lincoln Line Revisited, *Earth and Planetary Sci. Letts.*, doi:10.1016/j.epsl.2013.04.021, 402, 265-274, 2014.
- 60.* McGary, R.S., **R. L. Evans**, P.E. Wannamaker, J. Elsenbeck, S. Rondenay, From slab to surface: Imaging the complete pathway for melt and fluids beneath Mount Rainier in the Cascadia subduction system, *Nature*, doi:10.1038/nature13493, 511, 338-341, 2014.

61. Wannamaker, P.E., **R.L. Evans**, P. Bedrosian, M.J. Unsworth, V. Maris, and R.S. McGary, Segmentation of Plate Coupling, Fate of Subduction Fluids, And Modes of Arc Magmatism in Cascadia, USA, Inferred from Magnetotelluric Resistivity, *Geochem., Geophys., Geosyst.*, doi:10.1002/2014GC005509, 2014.
- 62.* Sarafian, E., **R.L. Evans**, J. Collins, J. Elsenbeck, G. Gaetani, J. Gaherty, G. Hirth, D. Lizarralde, The Electrical Structure of the Central Pacific Upper Mantle Constrained by the NoMelt Experiment, *Geochem, Geophys. Geosyst.* DOI:10.1002/2014GC005709, 2015.
63. Naif, S., K. Key, S.C. Constable, **R.L. Evans**, Water-rich bending faults at the Middle America Trench, *Geochem, Geophys., Geosyst.*, DOI:10.1002/2015GC005927, 2015.
64. Garcia, X., H. Seille, J. Elsenbeck, **R.L. Evans**, M. Jegen., J. Ledo, A. Lovatini, A. Marti, A. Marcuello, P. Queralt, C. Ranero and C. Ungarelli, Structure of the mantle beneath the Alboran Basin from Magnetotelluric Soundings, *Geochem, Geophys., Geosyst.*, DOI:10.1002/2015GC006100, 2015.
64. Lin, P.-Y. P., J.B. Gaherty, G. Jin. J. Collins, D. Lizarralde, **R.L. Evans**, G. Hirth, Constraints on flow dynamics within the oceanic asthenosphere from a high-resolution analysis of seismic anisotropy, doi:10.1038/nature18012, *Nature*, 535, 538-541, 2016.
65. Monteys, X. Hung P., Scott G., Garcia X., **Evans R.L.** , Kelleher, B., The use of multibeam backscatter angular response for marine sediment characterisation by comparison with shallow electromagnetic data, *Applied Acoustics*, 112, 181-191, 2016.
66. Naif, S., K. Key, S. Constable, **R.L. Evans**, Porosity and fluid budget of a water-rich megathrust revealed with electromagnetic data, *Geochem, Geophys., Geosyst.*, doi:10.1002/2016GC006556, 2016.
- 67.* Attias, E., **R.L. Evans**, J. Elsenbeck, S. Naif, K. Key, Conductivity Structure of the Lithosphere-Asthenosphere Boundary Beneath the Eastern North American Margin, *Geochem, Geophys., Geosyst.* doi:10.1002/2016GC006667, 2017.
68. Pommier, A. and **R.L. Evans**, Constraints on fluids in subduction zones from electromagnetic data, *Geosphere*, 13, 1026-1041, 2017.
69. Matsuno, T., **R.L. Evans**, Constraints on Mantle Anisotropy in the NoMelt Area from an Analysis of Long-Period Seafloor Magnetotelluric Data, *Earth, Planets, Space*, 69:138, doi://10.1186/s40623-017-0724-1, 2017.
- 70.* Sarafian, E., **R. L Evans**, M.G Abdelsalam, E. Atekwana, J. Elsenbeck, A.G Jones, E. Chikambwe, Imaging Precambrian lithospheric structure in Zambia using electromagnetic methods, *Gondwana Research*, 54, 38-49, 2018.

71. **Evans, R.L.**, E. Sarafian, A. Sarafian, The Evolution of the Oceanic Lithosphere: An Electromagnetic Perspective, in *Lithospheric Discontinuities*, AGU Monograph 239, H. Yuan and B. Romanowitz eds, 35-53, 2019.
72. **Evans, R.L.**, J. Elsenbeck, J. Zhu, M.G. Abdelsalam, E. Sarafian, D. Mutamina, F. Chilongola, E. Atekwana, A.G. Jones, Structure of the Lithosphere beneath the Barotse Basin, SW Zambia from Magnetotelluric Data, *Tectonics*, doi://10.1029/2018TC005246, 2019.
73. Russell, J.B., J.B. Gaherty, P.-Y. Patty Lin, D. Lizarralde, J.A. Collins, G. Hirth, and **R.L. Evans**, High-resolution constraints on Pacific upper mantle petrofabric inferred from surface-wave anisotropy, *J. Geophys. Res.*, doi://10.1029/2018JB016598, 2019.
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76. **Evans, R.L.**, M.H. Benoit, M. Long, H.A. Ford, J. Elsenbeck, J. Zhu, X. Garcia, Thin Lithosphere Beneath the Appalachian Mountains: A Combined Seismic and Magnetotelluric Study, *Earth and Planetary Sci. Letts*, 2019.
77. Gustafson, C., K. Key and **R.L. Evans**, Aquifer systems extending far offshore on the U.S. Atlantic margin, *Scientific Reports*, doi://10.1038/s41598-019-44611-7, 9:8709, 2019.
78. Blatter, D., K. Key, A. Ray, C. Gustafson, **R.L. Evans**, Bayesian Joint Inversion of Controlled Source Electromagnetic and Magnetotelluric Data to Image Freshwater Aquifer, New Jersey, *Geophys. J. Int*, doi://10.1093/gji/ggz253, 2019.
79. Long, M.D., M.H. Benoit, **R.L. Evans**, J.C. Aragon, J. Elsenbeck, The MAGIC experiment: A combined seismic and magnetotelluric deployment to investigate the structure, dynamics, and evolution of the central Appalachians, *Data Mine section Seismological Research Letts.*, <https://doi.org/10.1785/0220200150> 2020.
80. Micallef, A., M. Person, C. Berndt, C. Bertoni, D. Cohen, B. Dugan, **R. Evans**, A. Haroon, C. Hensen, M. Jegen, K. Key, H. Kooi, V. Liebetrau, J. Lofi, B.J. Mailloux, R. Martin-Nagle, H.A. Michael, T. Müller, M. Schmidt, K. Schwalenberg, E. Trembath-Reichert, B. Weymer, Y. Zhang, A.T. Thomas, Offshore Freshened Groundwater in Continental Margins, *Reviews of Geophysics*, 10.1029/2020RG000706, 2020.
81. Matende, K., E. Atekwana, K. Mickus, M. Abdelsalam, E. Atekwana, **R. Evans**, V. Nyalugwe, Crustal and thermal structure of the Permian - Jurassic Luangwa - Lukusashi - Luano Rift, Zambia: Implications for strain localization in magma - poor continental rifts, *Journal of African Earth Sciences*, doi://10.1016/j.afrearsci.2020.104090, 175, 2021

82. Mark, H, J. Collins, D. Lizarralde, G. Hirth, J. Gaherty, **R. Evans**, M. Behn, Constraints on the depth, thickness, and strength of the G discontinuity in the central Pacific from S receiver functions, *JGR Solid Earth*, doi://10.1029/2019JB019256, 2021.
83. Pradeep Ranasinghe, J.P. Donnelly, **R.L. Evans**, N.U. Nanayakkara, J.R. Rodysill, P. J. van Hengstum, A.D. Hawkes, R. Sullivan, M.R Toomey, Complex sedimentary processes in large coastal embayments and their potential for coastal morphological and paleo tropical cyclone studies: A case study from Choctawhatchee Bay Western Florida, U.S.A, *Marine Geology*, 437, 106478, <http://doi.org/10.1016/j.margeo.2021.106478> , 2021.
84. Long, M.D., L.S. Wagner, S.D. King, **R.L. Evans**, S.E Mazza, J.S Byrnes, E. Johnson, E. Kirby, M. Bezada, E. Gazel, S.R. Miller, J.C. Aragon, S. Liu, Evaluating models for lithospheric loss and intraplate volcanism beneath the Central Appalachian Mountains, *JGR Solid Earth*, <http://dx.doi.org/10.1029/2021JB022571>, 2021.
85. Galley, C., P. Lelièvre, A. Haroon, S. Graber, J. Jamieson, F. Szitkar, I. Yeo, C. Farquharson, S. Petersen, and **R. Evans**, Magnetic and Gravity Surface Geometry Inverse Modelling of the TAG Active Mound, *JGR Solid Earth*, <https://doi.org/10.1029/2021JB022228>, 2021.
86. Russell, J.B., J.B. Gaherty, H.F. Mark, D. Lizarralde, G. Hirth, J.A. Collins, **R.L. Evans**, Seismological evidence for grain-size sensitive olivine deformation during mid-ocean ridge spreading, *Geochem, Geophys., Geosyst.*, <http://dx.doi.org/10.1029/2022GC010542>, 2022.
87. Weymer B.A, M.E. Everett, A. Haroon, M. Jegen, A. Micallef, C. Berndt, H.A. Michael, **R. Evans**, V.E.A. Post, The coastal transition zone is an underexplored frontier in hydrology and geoscience. *Nature Communications, Earth and Environment*, <https://doi.org/10.1038/s43247-022-00655-8> 2022.
88. Mittal V., M.D. Long, **R.L. Evans**, J.S. Byrnes, M. Bezada, Joint analysis of seismic and electrical observables beneath the Central Appalachians requires partial melt in the upper mantle, *Geochem, Geophys., Geosyst.*, <http://doi.org/10.1029/2022GC010690>, 2023.
89. Chase B.F., M. J. Unsworth, E.A. Atekwana, **R.L. Evans**, J. Zhu. Magnetotelluric Results from the Southern Oklahoma Aulacogen, *JGR*, <http://doi.org/10.1029/2023JB026555>, 2023.
90. Cordell, D., S. Naif, **R.L. Evans**, K. Key, S. Constable, D. Shillington, A. Bécel, Forearc seismogenesis in a weakly coupled subduction zone influenced by slab mantle fluids, *Nature Geoscience*, <http://doi.org/10.1038/s41561-023-01260-w> , 2023.
91. Mark Person, W. Defoor, A. Camille, K. Key, **R.L. Evans**, B. Dugan, C. Noyes, J. McIntosh, D. K. Solomon, A. Micallef, M. Willett , Testing Different Scenarios of Freshwater Emplacement on the New England Continental Shelf, USA using hydrologic modeling constrained by Electromagnetic, Isotopic and Salinity Data, *GSA Bulletin*, <https://doi.org/10.1130/B37466.1> 2025.

92. Chesley, C., **R.L. Evans**, J.M. Warren, A.C. Gase, J. Perez, C. Armerding, H. Brewer, P. Koenig, E. Attias, B.L. Fluegel, Jae Deok Kim, N. Hummel, K. Enright, E. Topp-Johnson, and M.S. Boettcher, Evidence for crustal brines and deep fluid infiltration in an ocean transform fault, Science Advances, <https://www.science.org/doi/10.1126/sciadv.adu3661> 2025.
93. Njinju, E.A., F. Kolawole, E.A. Atekwana, A. Rasheed, E.A. Atekwana, D.S. Stamps, **R.L. Evans**, A. Katumwehe, P.H. Barry, S. van der Lee, J.M. Kiberu, F. Tugume, A. Kabanda, M. Taylor, J. Nakajigo, and A. Oluwasegun Isaac, Density perturbations in the lower crust indicate potential for blind magmatism beneath magma-poor Rifts, Tectonophysics, <https://doi.org/10.1016/j.tecto.2025.230881>, 2025.
94. Kim, Jae Deok, R.L. Evans, A magnetotelluric study of lithospheric thinning beneath the Northeastern United States: Evidence for partial melting and mantle metasomatism, Geochem, Geophys., Geosyst., in press, 2025.

Papers Submitted or in Prep

Andrew B. Katumwehe, Folarin Kolawole, Estella A. Atekwana, Kevin Mickus, Jeannot F. Goussi Ngalamo, D. Sarah Stamps, Rob L. Evans, Eliot A. Atekwana, Emmanuel A. Njinju, Michael Taylor, Suzan van der Lee, Fred Tugume, John Mary Kiberu, Paula Babirye, Heat Flow Distribution and Geothermal Domains of the Edward-George and Albertine-Rhino Rift Zones, Western Uganda, submitted to GJI, Feb 2025.

Li, Y., S. Naif, K. Key, S. Constable, R.L. Evans, D.J. Shillington, A. Becel, D. Cordell, Insufficient fluids to explain weak plate coupling along the shallow megathrust at the Shumagin Gap, Submitted to Science Advances, May 2025, rejected July 2025, resubmitted to Nature Comms Sept 2025.

Hillary Mwongyera, Michael H. Taylor, D. Sarah Stamps, Estella A. Atekwana, Rob. L. Evans, Peter H. Barry, Suzan van der Lee, Andrew Katumwehe, Emmanuel Njinju, Albert Kabanda, Asenath Kwagalakwe, John Mary Kiberu, Joan Nakajigo and Fred Tugume, Active fault database for the northern Western Branch of the East African Rift System. Submitted to GSA Today, Aug 25.

Matende, K.N, R Evans, J Zhu, E Atekwana, K Mickus, R Ranganai, K Laletsang, F Kolawole, O Brovko, Magnetotelluric Investigation of the Southwestern terminus of the East African Rift reveals Spatial Transition from Deep Melt-Assisted to Melt-Deficient Rift Initiation Mechanisms, for submission to Gondwana Research, Oct 2025.

Book Chapters

Evans, R.L., Chapter 3: Earth's Electromagnetic Environment. Part 1. Conductivity of Earth Materials, in Chave, A.D., and A.G. Jones (eds.), *The Magnetotelluric Method: Theory and Practice*, Cambridge University Press, ISBN 9780521819275, 50-121, 2012.

Non-Reviewed or Non-Journal Articles and Reports

1. Sohn, R., **Evans, R.L.**, S.C. Webb, R. N. Edwards, J. Hildebrand, W. Crawford, E. Canuteson and M. Zumberge, Geophysical experiments during the MUSE experiment, *InterRidge News*, vol 4., 24-28, 1995.
2. **Evans, R.L.**, A current affair, *Oceanus*, 41, 32-33, 1998.
3. **Evans, R.L.**, A new geophysical tool for shallow-water surveying, *Annual Report of the Woods Hole Oceanographic Institution*, p. 15-17, 2000.
4. **Evans, R.L.** (Editor) Report on Workshop and Shortcourse on Coastal Change, WHOI, 2004.
5. **Evans, Rob**, Just add more water, *Nature, News and Views*, 429, 356-357, 2004.
6. **Evans, Rob**, Rising sealevels and moving shorelines, *Oceanus*, 43, 2005. Also reprinted in "Management of Coastal Resources", ICFAI Press, 2007; and in "Climate Change in Context", GALE Publishing, 2007.
7. **Evans, Rob. L.**, Carbon in Charge, *Science, Perspective*, 322, 1338-1340, 2008.
8. **Evans, Rob. L.**, MT and the Subduction Factory, *Margins Newsletter*, December, 2010.
9. **Evans, Rob. L.**, Making the Earth Move, *Nature, News and Views*, 509, 40-41, 2014
10. **Evans, Rob. L.**, J. Donnelly, A. Ashton, K.F. Cheung, V. Roeber, Shoreline Evolution and Coastal Resiliency at Two Military Installations: Investigating the Potential for the Loss of Protecting Barriers, SERDP Project RC-1702, Final Report, <http://www.serdp.org/Program-Areas/Resource-Conservation-and-Climate-Change/Climate-Change/Vulnerability-and-Impact-Assessment/RC-1702/RC-1702-FR>, 2014.
11. M. Boettcher, E. Roland, J. Warren, **R. Evans**, J Collins Observing a seismic cycle at sea, *EOS*, <https://eos.org/science-updates/observing-a-seismic-cycle-at-sea> , 2023.
12. **Evans, Rob. L.**, Undersea Aquifers, *Scientific American*, 329, 1, 58-63, doi:10.1038/scientificamerican0723-58, 2023.

Data Products

1. Jones, A.G., R.L. Evans, M.R. Muller, M.P. Hamilton, M.P. Miensopust, X. Garcia, P. Cole, T. Ngwisanyi, D. Hutchins, C.J.S Fourie, H. Jelsma, T. Aravanis, W. Pettit, S. Webb, J. Wasborg,

- and The SAMTEX Team (2003-2008). "Southern Africa Magnetotelluric Transfer Functions". doi:10.17611/DP/EMTF/SAMTEX.
2. Wannamaker, P.E., Evans, R.L., McGary, R.S., Maris, V. and Quantec Geoscience Inc. (2010). "Long Period Magnetotelluric Transfer Functions from the CAFE-MT experiment in central Washington". doi:10.17611/DP/EMTF/CAFE-MT.LP
 3. Evans, R. L., J. Elsenbeck, X. Garcia, R. Sullivan, C. Wiman, and K. Jones (2016). "Long period magnetotelluric transfer functions Beneath the Central Appalachian Mountains in USA". doi:10.17611/DP/EMTF/MAGIC.
 4. Evans, R. L., J. Elsenbeck, D. Mutamina, F. Chilogola, D. Kiyan, and A. G. Jones (2012). "Broadband magnetotelluric transfer functions from the Barotse Basin in Zambia". doi:10.17611/DP/EMTF/PRIDE/ZAM.
 5. Evans R.L., C. Galley, Seafloor gravity measurements across the TAG Hydrothermal Mound on the Mid-Atlantic Ridge (1994), doi://10.26022/IEDA/330210

Selected Invited Talks and Conference Proceedings

- 1999 The MELT Experiment: Results of the MT Transect, European Geophysical Society.
- 2000 Melt Generation and Transport, RIDGE Integrated Studies Planning Meeting, DeKalb, IL.
- 2002 Geophysical Constraints upon the Thermal Regime of the Oceanic Crust, Interridge Theoretical Workshop (with Martin Sinha), Pavia Italy.
- 2007 Electrical Conductivity of the Oceanic Mantle: Constraints on Composition, Temperature and Melting Processes, Gordon Conference, Interior of the Earth, Mount Holyoke College, Mass.
- 2009 Structure of the Oceanic Mantle: Geophysical Constraints on Lithosphere Evolution, European Science Foundation Exploratory Workshop: Defining the Lithosphere-Asthenosphere Boundary, Dublin, June 2009.
- 2014 Shoreline Evolution and Coastal Resiliency at Two Military Installations: Investigating the Potential for and Impacts of Loss of Protecting Barriers, Eastern Coastal Infrastructure and Climate Change Workshop, Washington DC, Feb. 2014.
- 2014 MT and Subduction Zones: Improving Models and Interpretations Through Use of Independent Constraints, Integrated Electromagnetics Event, Schlumberger, Milan Italy, September, 2014.
- 2018 Groundwater in Coastal and Continental Shelf Settings: The use of Electromagnetic Methods to Map Offshore Water Resources. Heiland Lecture, Colorado School of Mines, April, 2018.

Sea-Going Experience

1. 1988 RRS Discovery Josephine Seamount, offshore Portugal.
Seismic refraction survey.
2. 1989 RRS Charles Darwin East Pacific Rise, 13 N.
Controlled source EM (CSEM) across the ridge crest.
3. 1992 R/V Endeavour Juan de Fuca Ridge, Endeavour segment and Explorer Ridge.
Passive EM, towed EM, camera tows, CTD tow-yos.
4. 1993 R/V Atlantis II TAG, Mid-Atlantic Ridge
Alvin dive program using time domain EM to survey the TAG hydrothermal mound.
5. 1993 R/V Melville, Juan de Fuca Ridge, Middle Valley and Axial seamount.
Towed EM, EM, Micro-seismicity and refraction, seafloor gravity survey.

6. 1994 R/V New Horizon, Juan de Fuca Ridge, Cleft Segment.
An MMR survey of the Cleft-Vance OSC.
7. 1994 R/V Yokosuka, Mid-Atlantic Ridge, TAG.
Shinkai Dive program at the TAG hydrothermal mound. Seafloor gravity, deployment of thermistor arrays, regional geology and chemistry.
8. 1996 R/V Thompson, Southern East Pacific Rise. MELT II.
MT instrument deployment and OBS recovery.
9. 1996 R/V W. McGaw, Eel River Shelf.
(Chief Scientist) Towed EM survey within the ONR strataform area.
10. 1997 R/V Melville, Southern East Pacific Rise. MELT III.
Magnetotelluric array recovery.
11. 1997 R/V Atlantis, East Pacific Rise, 9N.
Tilt meter deployment.
12. 1998 R/V Oceanus, New Jersey Margin
(Co-Chief Scientist) Towed EM survey.
13. 1998 R/V Atlantis, East Pacific Rise, 9N.
Tilt meter Recovery
14. 2000 R/V Melville, East Pacific Rise, 9N.
(Co-Chief Scientist) MMR experiment
15. 2000 R/V Cape Hatteras, Wrightsville Beach, NC.
(Chief Scientist) Towed EM survey
16. 2002 R/V Cape Henlopen Martha's Vineyard, MA.
(Chief Scientist) Seismic survey
17. 2003 R/V Connecticut, Martha's Vineyard, MA.
(Chief Scientist) Towed EM survey
18. 2003 R/V Gyre, Gulf of Mexico
Gas hydrates survey
19. 2004 R/V Pelican, Gulf of Mexico
(Chief Scientist) Towed EM and deep tow camera survey of hydrate mounds
20. 2005 R/V Magnus Heinason, Faroe Islands
(Chief Scientist) MT instrument recovery
21. 2006 MMV Atlantic Guardian, Indonesia.
Client representative for industry marine CSEM survey.
22. 2006 R/V Kairei, Mariana Subduction System
Recovery of seafloor MT instruments
23. 2007 MMV REM Angler, Offshore Norway
Client representative for industry marine CSEM survey.
24. 2007 MMV Siem Mollie, Offshore Norway
Client representative for industry marine CSEM survey.
25. 2009 R/V Endeavor, Mid-Atlantic Ridge
(Chief Scientist) Towed EM survey at Kane Megamullion.
26. 2010 R/V OR1, Taiwan
Towed EM survey of gas seeps
27. 2010 Isla de Alboran, Alboran Sea, western Mediterranean.
Seafloor MT deployment.
28. 2013 R/V Connecticut, Martha's Vineyard
(Chief Scientist) Deployment of seafloor instruments
29. 2015 R/V Marcus Langseth, New England Shelf

- (Co-Chief Scientist) Marine CSEM Survey for freshwater offshore New Jersey and Martha's Vineyard.
30. 2016 R/V Neil Armstrong, Martha's Vineyard
(Chief Scientist) Science verification cruise and testing of ship operations.
31. 2019 R/V Thomas Thompson, Martha's Vineyard
Testing marine CSEM system
32. 2022 R/V Thomas Thompson, GOFAR Transform Fault
(Chief Scientist) Marine CSEM/MT Survey, Sentry dives, OBS recoveries.

Field-Work

1997, 1998	Glenn Canyon	EM measurements of eolian sandstone
1998, 1999	Yellowknife, NWT Canada	Lakebottom MT deployment
2000, 2001	Wrightsville Beach, North Carolina	Resistivity Profiles
2003 -2005	Southern Africa	SAMTEX -MT profile across the Kaapvaal craton and its surrounding terranes
2009	Massachusetts (various)	Beach Studies
2010	Destin, Florida	Barrier Beach Studies
2011	Destin, Florida	Barrier Beach Studies
2011	Zambia	MT studies of the East African Rift
2012	Zambia	MT studies of the East African Rift

WHOI Committees

Assistant Scientist Advisory Committees

2007-2011	Andrew Ashton
2003-2007	Ilya Buynevich
2002-2006	Jeff Donnelly
2002-2006	Liviu Giosan

Associate Scientist Advisory Committees (excluding time as Dept Chair)

2023	Masako Tominaga
2011-2015	Andrew Ashton
2006-2013	Liviu Giosan
2008-2012	Pablo Canales
2006-2010	Dan Lizarralde
2006-2009	Jeff Donnelly
2000-2004	Wenlu Zhu

Ad-Hoc Promotion Committees (excluding time as Dept Chair)

2023	Yang Liao
2013	James Kinsey (Chair)
2011	Andrew Ashton
2009	Sarah Das
2007	Ilya Buynevich
2007	Liviu Giosan
2006	Jeff Donnelly
2006	Ann Mulligan

2004 Wenlu Zhu
2004 Peter Traykovski (Chair)

Coastal Ocean Institute Science Advisory Committee: 2002-2009.
Staff Committee Co-Chair, 2006-2008.
SciSec, 2012-2014.
Deep Submergence Advisory Committee, 2015.
Marine Operations Committee, 2015-2017.
Institution Staff Council, 2017-2025.
Strategic Marketing Task Force, 2017-2018.
Vice President for Advancement, Search Committee, 2018.
Strategic Facilities Assessment 1.0 steering committee, 2018-2020
Chief Financial Officer, Search Committee, 2020.
Chief Diversity and Equity Officer, Search Committee, 2021.
NOSAMS Director Search Committee Chair, 2021.
Strategic Facilities Assessment 2.0, 2022.
WHOI Senior Administration 2023-2025.
General Counsel, Search Committee, 2023.
Chief People Office, Search Committee, 2023.
Data Library Director, Search Committee Chair, 2024.

Role in WHOI Education Program

Summer Student Fellowship admissions committee 2002, 2003.
G&G Post-Doc selection and mentoring Committee (Chair) 2006-2009.
JCMGG Member 2006-2009.
JCMGG Chair August 2010-2013.
Interim VP for Academic Programs and Dean, 2023-2025.

Classes and Trainings Taught:

1996, 1998, 2002, 2008, 2022 Advanced Marine Geophysics, Marine Electromagnetic Methods.

2024 Mentor training for Summer Student Fellow Program

2024 Ethics Workshop for Summer Student Fellow and PEP Program

Post-Doctoral Fellows and Investigators:

2001-2002 Ilya Buynevich

2001-2003 Pamela Lezaeta

2006-2007 Andrew Ashton

2008-2010 Tetsuo Matsuno

2013 Shane McGary

2021- Christine Chesley

Students Advised:

1999-2000 Fernanda Hoefel (Pre-General's Academic Advisor)

2003-2004 Lisa Lassner (Master's student)

2008-2010 Emily Carruthers (Master's Student)

2007-2012 Shane McGary

2012-2017 Emily Sarafian
2020- Jae Deok Kim
2022- Natalie Hummel
2022- Bailey Fluegel

Student Committees:

2000 Carolyn Gramling (Generals Exam Committee)
2000 Fernanda Hoefel (Generals Exam Committee)
2002 Brian de Martin (Generals Exam Chair)
2003 Fernanda Hoefel (Chair Thesis defense)
2003 Amy Draut (Chair Thesis defense)
2007 Fern Gibbons (JCMGG representative on Generals committee)
2008 Jon Woodruff (Chair Thesis defense)
2008 Andrea Burke (JCMGG representative on Generals committee)
2010 Michael Toomey (JCMGG representative on Generals committee)
2010 Arthur Olive (JCMGG representative on Generals committee)
2011 Min Ding (JCMGG representative on Generals committee)
2012 Claire Bucholz (JCMGG representative on Generals committee)
2012 Min Ding (Chair Thesis Proposal Presentation)
2012 Alejandra Ortiz (Chair/JCMGG representative on Generals committee)
2013 Helen Feng (Chair/JCMGG representative on Generals committee)
2013 Jaap Nienhuis (Chair/JCMGG representative on Generals committee)
2013 Michael Toomey (Chair Thesis defense)
2014 Alejandra Ortiz (Committee member Thesis Proposal Presentation)
2014 Min Ding (Committee member)
2015 Alejandra Ortiz (Chair Thesis defense)
2016 Helen Feng (Chair Thesis defense)
2016 Katie Castagno (Chair Generals Exam Committee)
2018 Jianhua Gong (Committee member Thesis Proposal Presentation)
2020 Jianhua Gong (Thesis Defense)
2023 Paris Smalls (Committee member, Thesis Defense)

Summer Student Fellows:

1995 Margaret Edie
1998 Patty Hines (Minority Trainee)
2001 Takako Noda
2007 Caroline Martin

Guest Students:

2000 David Robinson (Flinders University, Australia)
2006 Michelle Ellis (Southampton, UK)
2006 Mark Hamilton (DIAS, Ireland)
2007 Patricia Bowie (Duke University)
2009 Holly Taylor (Northeastern University)
2011 Matthew Chamberlain; David Margolius; Colin Skinner (Northeastern University)
2024 Kitso Matende, U. Botswana
2024 Joan Nakajigo, Makerere University, Kampala, Uganda.

Student committees or examiner at external universities:

2002 Greg Schultz, Georgia Tech.
2003 Juan Yuan, Dept of Physics, University of Toronto

2014 Maik Neukirch, University of Barcelona
 2015 Duygu Kiyan, National University of Ireland, Galway.
 2019 Brandon Chase (MSc), Oklahoma State University.
 2020 Costanza Manassero, Maquerie University, Australia.
 2020 Chloe Gustafson, Lamont Doherty Earth Observatory.
 2021 Sinan Özeydin, Maquerie University, Australia.
 2022- Kitso Matende, University of Botswana.
 2023 Fateme Hormozzade Ghalati, Carleton University, Canada.

Active Collaborators in Last 2 years:

External – Estella Atekwana, Steve Constable, Brandon Chase, Darcy Cordell, Xavi Garcia, Andrew Katumwehe, Fola Kolawole, Maureen Long, Samer Naif, Sai, Ravela, D. Sarah Stamps, Suzan van der Lee, Martyn Unsworth.

Abstracts

1990

1. **Evans, R.L.**, M.C. Sinha, S.C. Constable, C.S. Cox, M. Unsworth, Crustal resistivity structure of the East Pacific Rise near 13N, EM Induction Workshop, Ensenada, 1990.

1991

2. **Evans, R.L.**, M.C. Sinha, S.C. Constable, C.S. Cox, M. Unsworth, Crustal resistivity structure of the East Pacific Rise near 13N, EGS, Wiesbaden, 1991.
3. **Evans, R.L.**, S.C. Constable, M.C. Sinha, C.S. Cox, M. Unsworth, Upper-crustal resistivity Structure of the East Pacific Rise Near 13N, Eos Trans. AGU, 72, 1991.

1993

4. Jegen, M., R.N. Edwards, **R.L. Evans**, A vertical gradient magnetic sounding of the Juan de Fuca ridge, CGU, Banff, 1993.
5. **Evans, R.L.**, G. Cairns, R.N. Edwards, A transient electromagnetic investigation of the TAG hydrothermal mound, Eos Trans. AGU, 74, 1993.

1994

6. Edwards, R.N., **R.L. Evans**, M. Jegen, K. Sananikone and S.C. Webb, Magnetometric resistivity sounding of the Juan de Fuca Ridge, Eos Trans. AGU, 75, 1994.
7. Ortega-Osorio, A., S.D. Scott, R. Binns and **R.L. Evans**, Physical characteristics of hydrothermal buoyant plumes at the eastern Manus basin, Papua New Guinea, Eos Trans. AGU, 75, 1994.
8. **Evans, R.L.** and H.O. Seigel, A seafloor gravity survey across the TAG hydrothermal mound, Eos Trans. AGU, 75, 1994.
9. Fujioka, K., R. Von Herzen, T. Gamo, H. Chiba, H. Masuda, M. Kinoshita, O. Matsubayashi, A. Nishizawa, N. Seama, **R.L. Evans**, H. Edmonds, J. Kirklin, and M. Aoki, Geology, Geophysics

and fluid chemistry of the TAG hydrothermal mound, Mid-Atlantic Ridge: Preliminary results of the MODE 94 cruise, Eos Trans. AGU, 75, 1994.

1995

10. **Evans, R.L.**, R.N. Edwards, M. Jegen, S.C. Webb and K. Sananikone, An MMR survey of the overlapping spreading centre, northern Cleft Segment, Juan de Fuca Ridge, Eos Trans. AGU, 76, 1995.
11. **Evans, R.L.**, A seafloor gravity survey across the TAG hydrothermal mound, Eos Trans. AGU, 76, 1995 (Invited).

1996

12. **Evans, R.L.**, L.K. Law, B. St Louis, S. Cheesman and K. Sananikone, The porosity structure of the northern Californian shelf off Humboldt Bay: Results of a shallow electromagnetic survey, Eos Trans AGU, 77, 1996 (Invited).
13. Hirth, G., **R.L. Evans** and A.D. Chave, Constraints on the temperature and water content of oceanic and cratonic mantle from electrical conductivity profiles, Eos Trans. AGU, 77, 1996.
14. Wannamaker, P.E. A.D. Chave, J.R. Booker, A.G. Jones, J.H. Filloux, Y. Ogawa, M. Unsworth, P. Tarits, and **R.L. Evans**, Magnetotelluric experiment probes deep physical state of Southeastern U.S., Eos Trans. AGU, 77, 1996.

1997

15. **Evans, R.L.**, L.K. Law, B. St Louis, S. Cheesman and K. Sananikone, The sedimentary structure of the Californian shelf off Humboldt bay determined by a towed electromagnetic system. Proc. Symp. on the Application of Geophysics to Eng. and Environ. Problems, Vol II 937-946, SAGEEP, Reno, 1997.

1998

16. Heinson, G., A. White, **R.L. Evans**, A.D. Chave, P. Tarits, H. Toh, T. Goto, H. Utada, N. Seama, K. Baba, J.H. Filloux, J.R. Booker and M. Unsworth, The MELT experiment: Magnetotelluric data, Eos Trans AGU, 79, 1998.
17. **Evans, R.L.**, A.D. Chave, G. Heinson, A. White, H. Toh, T. Goto, H. Utada, P. Tarits, N. Seama, K. Baba, J.H. Filloux, M. Unsworth and J.R. Booker, The MELT experiment: Preliminary inversion and modeling results, Eos Trans. AGU, 79, 1998.
18. Tarits, P., A.D. Chave, **R.L. Evans**, J.H. Filloux, G. Heinson, K. Baba, N. Goto, Along axis mantle electrical conductivity heterogeneities, Eos, Trans. AGU, 79, 1998.
19. Chave, A.D., **R.L. Evans**, G. Heinson, A. White, H. Toh, T. Goto, H. Utada, P. Tarits, N. Seama, K. Baba, M. Unsworth, J.R. Booker, and J.H. Filloux, The MELT experiment: Inversion of MT responses, Proc. 14th Workshop on Electromagnetic Induction in the Earth, Sinaia, Romania, August 16-23, 1998.

20. Heinson, G., A. White, **R.L. Evans**, A.D. Chave, P. Tarits, H. Toh, T. Goto, H. Utada, N. Seama, K. Baba, J.H. Filloux, M. Unsworth, and J.R. Booker, The MELT experiment: Magnetotelluric data, Proc. 14th Workshop on Electromagnetic Induction in the Earth, Sinaia, Romania, August 16-23, 1998.

1999

21. **Evans, R.L.**, A.G. Jones and A.D. Chave, Deep EM studies of the Slave craton, in LITHOPROBE report 69, SNORCLE and Cordilleran tectonics workshop, 1999.
22. Jones, A.G., I.J. Ferguson, G. McNeice, **R.L. Evans** and A.D. Chave, Electromagnetic studies of the slave craton: preliminary results and ongoing experiments in LITHOPROBE report 69, SNORCLE and Cordilleran tectonics workshop, 1999.
23. **Evans, R.L.**, A.D. Chave, G. Heinson, A. White, P. Tarits, H. Toh, M.J. Unsworth, J.R. Booker, T. Goto, H. Utada, N. Seama, K. Baba, J.H. Filloux, The MELT Experiment: Results of the MT Transect, European Geophysical Society, 1999.
24. **Evans, R.L.**, A.D. Chave, G. Heinson, A. White, P. Tarits, H. Toh, M.J. Unsworth, J.R. Booker, T. Goto, H. Utada, N. Seama, K. Baba, J.H. Filloux, Results of the MT Transect of the MELT experiment, Eos Trans. AGU, 80, 1999.
25. **Evans, R.L.**, A. Jones, A.D. Chave and I. Ferguson, Electromagnetic studies of the mantle beneath the World's oldest craton, Eos Trans. AGU, 80, 1999.
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