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Research Interests

My research is focused on the use of seismograms to better image earth structure and earthquake ruptures. My specific interests include earthquake processes, evolution of the lithosphere, seismic wave propagation, and quantitative data modeling.

Employment History

2007 -	Professor of Geosciences, Penn State
2001 - 2006	Associate Professor of Geosciences, Penn State
1998 - 2001	Associate Professor of Geophysics, Saint Louis University
1994 - 1998	Assistant Professor of Geophysics, Saint Louis University
1991 - 1993	Postdoctoral Researcher, University of California, Santa Cruz

Education

Ph.D. in Geophysics, Department of Geosciences, Penn State, 1991

M.A. in Geology, Department of Geological Sciences, State University of New York, Binghamton, 1986

B.S. in Physics, Department of Physics, Penn State, 1983

Professional Societies and Memberships

American Geophysical Union

American Association for the Advancement of Science

Seismological Society of America

Academic Honors and Notable Professional Service

Member of the U.S. Air Force Seismic Review Panel, 2006 -

Member of Board of Directors, Incorporated Research Institutes for Seismology, 2006-2008; 2019-

Elected a Fellow of the American Geophysical Union - 2015

Wilson Award for Excellence in Research, College of Earth and Mineral Sciences, Penn State - 2009

Chair of the Incorporated-Research-Institutes-for-Seismology Global Seismic Network Standing Committee, 2011-2013

Member of Coordination Committee, Incorporated Research Institutes for Seismology, 2011-2013

Member of the Data Products Working Group, Incorporated Research Institutes for Seismology, 2013-

Member of the Incorporated-Research-Institutes-for-Seismology Planning Committee, 2010-2010

Vice Chair of the Board of Directors, Incorporated Research Institutes for Seismology, 2007-2008

Associate Editor, Bulletin of the Seismological Society of America 1993-1996

American Geophysical Union Program Committee Chair for Seismology (Fall & Spring Meetings), 1994-1996

Member of Board of Directors, Seismological Society of America, 1997-1999

Member of IRIS Global Seismic Network Standing Committee, 1999-2000, 2005

US Geological Survey National Earthquake Information Center Advisory Panel, 2002

US Geological Survey NEHRP Central and Eastern US Proposal Review Panel, 2004

Articles Published in Refereed Journals

1. Kintner, J A, C Wauthier, C J Ammon, InSAR and seismic analyses of the 2014-15 earthquake sequence near Bushkan, Iran: shallow faulting in the core of an anticline fold, *Geophys J Int, 217*, 1011-1023, https://doi.org/10.1093/gji/ggz065, 2019.

2. Chai, C, C J Ammon, and K M Cleveland, Aftershocks of the 2012 Off-Coast of Sumatra Earthquake Sequence, *Tectonophysics, 763*, 61-72, 2019.

3. Pourpoint, M, S Anandakrishnan, C J Ammon, and R B Alley, Lithospheric structure of Greenland from ambient noise and earthquake surface wave tomography, *J Geophys Res, 123*, 7850-7876, https://doi.org/10.1029/2018JB015490, 2018.

4. Kintner, J A, C J Ammon, K M Cleveland, M Herman, Rupture processes of the 2013-2014 Minab earthquake sequence, Iran, *Geophys J Int, 213*, 1898-1911, https://doi.org/10.1093/gji/ggy085, 2018.

5. Pourpoint, M, S Anandakrishnan, and C J Ammon, Highresolution Rayleigh wave group velocity variation beneath Greenland, *J Geophys Res, 123*, 1516-1539, https://doi.org/10.1002/2017JB015072, 2018.

6. Chai, C C J Ammon, S Anandakrishnan, C Ramirez, A Nyblade; Estimating subglacial structure using P-wave receiver functions, *Geophysical Journal International, 209, 1064-1079*, https://doi.org/10.1093/gji/ggx075, 2017.

7. Lay, T., L. Ye, C. J. Ammon, H. Kanamori, Intraslab rupture triggering megathrust rupture coseismically in the December 17, 2016 Solomon Islands Mw 7.9 earthquake, *Geophysical Research Letters 44.3, 1286-1292*, 2017.

8. Lay, T., L. Ye, C. J. Ammon, A. Dunham, and K. D. Koper (2016), The 2 March 2016 Wharton Basin Mw 7.8 earthquake: High stress drop north-south strike-slip rupture in the diffuse oceanic deformation zone between the Indian and Australian Plates, *Geophys. Res. Lett., 43, 7937-7945*, doi:10.1002/2016GL069931, 2016.

9. Syracuse, E. M., M. Maceira, G. A. Prieto, H. Zhang, and C. J. Ammon, Multiple plates subducting beneath Colombia, as illuminated by seismicity and velocity from the joint inversion of seismic and gravity data, *Earth and Planetary Science Letters, 444(C), 139-149*, doi:10.1016/j.epsl.2016.03.050, 2016.

10. Cleveland, K. M., T. F. VanDeMark, and C. J. Ammon, Precise Relative Locations for Earthquakes in the Northeast Pacific Region, *J. Geophys. Res.*, 120, doi:10.1002/2015JB012161, 2015.

11. Chai, Chengping, C. J. Ammon, M. Maceira, and R. B. Herrmann. Inverting interpolated receiver functions with surface wave dispersion and gravity: Application to the western U.S. and adjacent Canada and Mexico. *Geophys. Res. Letters*, doi:10.1002/2015GL063733, 2015.

12. Cleveland, K. M. and C.J. Ammon, Precise relative earthquake magnitudes from cross correlation, *Bull. Seism. Soc. Am., 105*, 1792-1796, doi:10.1785/0120140329, 2015.

13. Cleveland, K. M., C. J. Ammon, and T. Lay, Large earthquake processes in the northern Vanuatu subduction zone, *J. Geophys. Res. Solid Earth, 119*, doi:10.1002/2014JB011289, 2014.

14. Cleveland, K. M. and Ammon, C. J., Precise relative earthquake relocation using surface waves, *J. Geophys. Res., 18*, 1-12, doi:10.1002/jgrb.50146, 2013.

15. Lay, T., Kanamori, H., Ammon, C. J., Koper, K., Hutko, A., Ye, L., Yue, H., Rushing, T. M., Depth-varying rupture properties of subduction zone megathrust faults, *J. Geophys. Res. 117*, 2012, http://dx.doi.org/10.1029/2011JB009133.

16. Herrmann, R. B., H. Benz, and C. J. Ammon, Monitoring the Earthquake Source Process in North America, *Bull. Seism. Soc. Am., 101*, 2609-2625, doi: 10.1785/0120110095, 2011.

17. Ammon, C. J., T. Lay, H. Kanamori, and M. Cleveland, A rupture model of the 2011 off the Pacific coast of Tohoku Earthquake, *Earth Planets and Space, 63*, 693-696, 2011.

18. Koper, K. D., A. R. Hutko, T. Lay, C. J. Ammon, and H. Kanamori, Frequency-dependent rupture process of the 2011 M(w) 9.0 Tohoku Earthquake: Comparison of short-period P wave backprojection images and broadband seismic rupture models, *Earth Planets and Space, 63*, 599-602, 2011.

19. Lay, T., C. J. Ammon, H. Kanamori, M. J. Kim, and L. Xue, Outer trench-slope faulting and the 2011 M(w) 9.0 off the Pacific coast of Tohoku Earthquake, *Earth Planets and Space, 63*, 713-718, 2011.

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21. Lay, T., Y. Yamazaki, C. J. Ammon, K. F. Cheung, and H. Kanamori, The 2011 M(w) 9.0 off the Pacific coast of Tohoku Earthquake: Comparison of deep-water tsunami signals with finite-fault rupture model predictions, *Earth Planets and Space, 63*, 797-801, 2011.

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23. Ammon, C. J., Lay, T., and D. Simpson, Great Earthquakes and Global Seismic Networks, *Seismol. Res. Letters, 81*, 965-971, doi: 10.1785/gssrl.81.6.965, 2011.

24. Lay, T., C. J. Ammon, H. Kanamori, L. Rivera, K. Koper, A. Hutko, The 2009 Samoa-Tonga great earthquake triggered doublet, *Nature 466*, 964968, doi:10.1038/nature09214, 2010.

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27. Sevilla, W. I., C. J. Ammon, B. Voight, and S. De Angelis, Crustal structure beneath the Montserrat region of the Lesser Antilles island arc, *Geochem. Geophys. Geosyst., 11*, Q06013, doi:10.1029/2010GC003048, 2010.

28. Lay, T., C. J. Ammon, A. R. Hutko, and H. Kanamori, Effects of Kinematic Constraints on Teleseismic Finite-Source Rupture Inversions: Great Peruvian Earthquakes of 23 June 2001 and 15 August 2007, *Bull. Seismol. Soc. Am., 100*, 969-994, doi:10.1785/0120090274, 2010.

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62. Parsons, T., J. McCarthy, W. M. Kohler, C. J. Ammon, H. M. Benz, J. A. Hole and E. E. Criley, The crustal structure of the Colorado Plateau, Arizona: Application of new long-offset seismic data analysis techniques, *J. Geophys. Res., 101*, 11,173-11,194, 1996.

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65. Zandt, G., and C. J. Ammon, Continental Crustal composition constrained by measurements of crustal Poisson's ratio, *Nature, 374*, 152-154, 1995.

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Articles Published in Nonrefereed Journals

1. B. Voight, R. S. J. Sparks, E. Shalev, T. Minshull, M. Paulatto, C. Annen, C. Kenedi, J. Hammond, T. J. Henstock, L. Brown, E. Kiddle, P. Malin, G. Mattioli, C. Ammon, E. Arias-Dotson, A. Belousov, K. Byerly, L. Carothers, A. Clarke, S. Dean, L. Ellett, D. Elsworth, D. Hidayat, R. A. Herd, M. Johnson, A. Lee, V. Miller, B. Murphy, C. Peirce, G. Ryan, S. Saldana, C. Snelson, R. Stewart, R. Syers, J. Taron, J. Trofimovs, C. Widiwijayanti, S. R. Young, and W. Zamora, Chapter 15 of The SEA-CALIPSO volcano imaging experiment at Montserrat: plans, campaigns at sea and on land, scientific results, and lessons learned, Geological Society, London, Memoirs, 39:253-289, doi:10.1144/M39.15

2. Ammon, C. J., M. Maceira, M. Cleveland, 3d Modeling Of Iran And Surrounding Areas From Simultaneous Inversion Of Multiple Geophysical Datasets, NNSA/AFRL 2011 Monitoring Research Review, Tucson, AZ, September, 2011.

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5. Ammon, C. J. and T. Lay, New Data Products: Animations of the Seismic Wavefield from USArray Data, Incorporated Research Institutions for Seismology, Annual Report, 2008.

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10. Ammon, C. J., R. Herrmann, M. Pasyanos, W. Walter, and M. Kosarian, Simultaneous Inversion of Receiver Functions, Multi-Mode Dispersion, and Travel-Time Tomography for Lithospheric Structure Beneath the Middle East and North Africa, *Proceedings of the 25th Seismic Research Review: Building the Knowledge Base*, October 2-5, 2003, pages 34-42, 2003.

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3. Chai, C., C. J. Ammon, R. B. Herrmann, A. Mostafanejad, C. A. Langston, Seismic structure beneath the northern Mississippi embayment: inverting receiver functions, surface-wave dispersion, and gravity observations, 2016 IRIS Workshop, Vancouver, WA, Jun., 2016.

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Creative Works: Outreach-Related Software

1. *Epicentral* for the iPhone/iPodTouch, free application to display recent earthquake activity and event information. The total number of downloads from Apple's iTunes App Store as of 2009 was over 50,000. I stopped tracking the number.

2. *Epicentral+* for the iPad, an application to display recent earthquake activity and event information, real-time seismograms from the global seismic networks, and information on volcanic eruptions.