

Contact Information

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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

2022 - Associate Head for Undergraduate Programs, Geosciences, Penn State
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 -
G. Montgomery and Marion Mitchell Award For Innovative Teaching, College of Earth and Mineral Sciences, Penn State - 2020
US Geological Survey NEHRP Proposal Review Panel, 2019
Member of Board of Directors, Incorporated Research Institutes for Seismology, 2006-2008; 2019-2021

Vice-Chair of IRIS Board of Directors, Incorporated Research Institutes for Seismology, 2021
Chair of the IRIS Presidential Search Committee, 2019-2020
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 Proposal Review Panel, 2004

Books Published

1. Ammon, C J, Velasco, A A, Lay, T, and Wallace, T C, *Foundations of Modern Global Seismology*, Academic Press (an Elsevier imprint), 2021, <https://doi.org/10.1016/C2017-0-03756-4>, ISBN: 978-0-12-815679-7.

Articles Published in Refereed Journals

1. Chai, C., Ammon, C J, Maceira, M, & Herrmann, R (2022). Crust and upper mantle structure beneath the Eastern United States. *Geochemistry, Geophysics, Geosystems*, 23, e2021GC010233. <https://doi.org/10.1029/2021GC010233>
2. Ringler, AT, RE Anthony, RC Aster, C J Ammon, S Arrowsmith, H Benz, C Ebeling, A Frassetto, W Y Kim, Paula Koelemeijer, HCP Lau, V Leki, JP Montagner, PG Richards, DP Schaff, M Valle, W Yeck, Achievements and prospects of global broadband seismographic networks after 30 years of continuous geophysical observations, *Reviews of Geophysics*, 60, 1985.
3. Chai, C, J Kintner, K M Cleveland, J Luo, M Maceira, and C J Ammon, Automatic Waveform Quality Control for Surface Waves Using Machine Learning, *Seismological Research Letters*, 93, 112, 2022, <https://doi.org/10.1785/0220210302>.
4. Herrmann, R B, Ammon, C J, Benz, H M, Aziz-Zanjani, A, and Boschelli, J. Short-Period Surface-Wave Tomography in the Continental United States - A Resource for Research, *Seismological Research Letters*, 92, 36423656, 2021.
5. Kintner, J A, Ammon, C J, Homman, K, and Nyblade, A, Precise relative magnitude and relative location estimates of low-yield industrial blasts in Pennsylvania, *Bulletin of the Seismological Society of America*, 110, 226240, 2020.

6. Kintner, J A, Michael Cleveland, K, Ammon, C J, and Nyblade, A, Testing a Local-Distance Rg/Sg Discriminant Using Observations from the Bighorn Region, Wyoming, *Bulletin of the Seismological Society of America*, 110, 727741, 2020.
7. Chai, C, Ammon, C J, and Cleveland, K M, Aftershocks of the 2012 Off-Coast of Sumatra Earthquake Sequence. *Tectonophysics*, 763, 6172, 2019.
8. 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.
9. Chai, C, C J Ammon, and K M Cleveland, Aftershocks of the 2012 Off-Coast of Sumatra Earthquake Sequence, *Tectonophysics*, 763, 61-72, 2019.
10. Cleveland, K M, Ammon, C J, and Kintner, J, Relocation of Light and Moderate-Magnitude (M46) Seismicity Along the Central Mid-Atlantic. *Geochemistry, Geophysics, Geosystems*, 19, 28432856, 2018.
11. Chai, C, Ammon, C J, Maceira, M, and Herrmann, R B, Interactive visualization of complex seismic data and models using bokeh. *Seismological Research Letters*, 89, 668676, 2018.
12. 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.
13. 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.
14. 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.
15. 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.
16. Lay, T., L. Ye, C. J. Ammon, H. Kanamori, Intralab rupture triggering megathrust rupture coseismically in the December 17, 2016 Solomon Islands Mw 7.9 earthquake, *Geophysical Research Letters* 44.3, 1286-1292, 2017.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.

22. 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.
23. Cleveland, K. M. and Ammon, C. J., Precise relative earthquake relocation using surface waves, *J. Geophys. Res.*, *118*, 1-12, doi:10.1002/jgrb.50146, 2013.
24. 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>.
25. 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.
26. 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.
27. 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.
28. 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.
29. Lay, T., C. J. Ammon, H. Kanamori, L. Xue, and M. J. Kim, Possible large near-trench slip during the 2011 M(w) 9.0 off the Pacific coast of Tohoku Earthquake, *Earth Planets and Space*, *63*, 687-692, 2011.
30. 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.
31. Lay, T., C. J. Ammon, H. Kanamori, Y. Yamazaki, K. F. Cheung, and A. R. Hutko, The 25 October 2010 Mentawai tsunami earthquake (M(w) 7.8) and the tsunami hazard presented by shallow megathrust ruptures, *Geophysical Research Letters*, *38*, 2011.
32. 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.
33. 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.
34. Lay, T., C. J. Ammon, H. Kanamori, K. D. Koper, O. Sufri, and A. R. Hutko, Teleseismic inversion for rupture process of the 27 February 2010 Chile (Mw 8.8) earthquake, *Geophys. Res. Lett.*, *37*, L13301, doi:10.1029/2010GL043379, 2010.
35. Miller, V., B. Voight, C. J. Ammon, E. Shalev, and G. Thompson, Seismic expression of magma-induced crustal strains and localized fluid pressures during initial eruptive stages, Soufriere Hills Volcano, Montserrat, *Geophys. Res. Lett.*, *37*, L00E21, doi:10.1029/2010GL043997, 2010.
36. 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.
37. 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.
38. Lay, T., H. Kanamori, C. J. Ammon, A. R. Hutko, K. Furlong, and L. Rivera, The 2006-2007 Kuril Islands great earthquake sequence, *Journal of Geophysical Research*, *114*, 2009.

39. Lay, T., H. Kanamori, C. J. Ammon, A. R. Hutko, K. P. Furlong, and L. Rivera, 2009, The 2006-2007 Kuril Islands Great Earthquake Sequence, *J. Geophys. Res. - revised and resubmitted*, 2009.
40. Maceira, M. and C. J. Ammon. Joint inversion of surface wave velocity and gravity observations and its application to central Asian basins shear velocity structure, *J Geophys Res*, *114*, B02314, doi:10.1029/2007JB005157, 2009.
41. Furlong, K. P., T. Lay, and C.J. Ammon, A Great Earthquake Rupture Across a Rapidly Evolving Three-Plate Boundary, *Science*, *324*, 226-229, doi:10.1126/science.1167476, 2009.
42. Hayes, G.P., K.P. Furlong, C.J. Ammon, Intraplate Deformation Adjacent to the Macquarie Ridge South of New Zealand - The Tectonic Evolution of a Complex Plate Boundary, *Tectonophysics* *463*, 1-14, doi:10.1016/j.tecto.2008.09.024, 2009.
43. Ammon, C. J., H. Kanamori, and T. Lay, A great earthquake doublet and seismic stress transfer cycle in the central Kuril islands, *Nature*, *451*, 561-565, 2008.
44. Cho, K. H., R. B. Herrmann, C. J. Ammon, and K. Lee, Imaging the Upper Crust of the Korean Peninsula by Surface-Wave Tomography, *Bull. Seism. Soc. Am.*, *97*, 198-207, DOI: 10.1785/0120060096, 2007.
45. Ammon, C. J., H. Kanamori, T. Lay, and A. A. Velasco, The 17 July 2006 Java Tsunami Earthquake (Mw = 7.8), *Geophys. Res. Lett.*, *33*, L24308, doi:10.1029/2006GL028005, 2006.
46. Velasco, A. A., C. J. Ammon, and T. Lay, A search for seismic radiation from late slip for the December 26, 2004 Sumatra-Andaman (Mw = 9.15) earthquake, *Geophys. Res. Lett.*, *33*, L18305, doi:10.1029/2006GL027286, 2006.
47. Ketter, B. S., A. A. Velasco, C. J. Ammon, and G. E. Randall, Path-specific velocity structure of western China from surface-wave dispersion, *Pure and Appl. Geophys.*, *163*, 1235-1255, doi:10.1007/s00024-006-0071-9, 2006.
48. Ammon, C. J., A. A. Velasco, and T. Lay, Rapid estimation of first-order rupture characteristics for large earthquakes using surface waves: 2004 Sumatra-Andaman earthquake, *Geophys. Res. Lett.*, *33*, L14314, doi:10.1029/2006GL026303, 2006.
49. Ammon, C.J., Megathrust investigations (News and Views), *Nature*, *440* (7080), 31-32, 2006.
50. Julià, Jordi, Ammon, C. J. and Nyblade, A. A., Evidence for mafic lower crust in Tanzania, East Africa, from joint inversion of receiver functions and Rayleigh wave dispersion velocities, *Geophys. J. Int.*, *162*, 555-569, doi:10.1111/j.1365-246X.2005.02685.x, 2005.
51. Ammon, C. J., C. Ji, H.-K. Thio, D. Robinson, S. Ni, H. Kanamori, T. Lay, S. Das, D. Helmberger, V. Hjorleifsdottir, G. Ichinose, J. Polet, D. Wald, Rupture Process of the 2004 Sumatra-Andaman Earthquake, *Science*, *308*, 1133-1139, 2005.
52. Lay, T., H. Kanamori, C. J. Ammon, M. Nettles, R. Aster, S. L. Beck, S. Bilek, M. R. Brudzinski, R. Butler, H. R. DeShon, G. Ekstrm, K. Satake, S. Sipkin, S. N. Ward, The Great Sumatra-Andaman Earthquake of 26, December 2004, *Science*, *308*, 1127-1133, 2005.
53. Maceira, M., S.R. Taylor, C.J. Ammon, X. Yang, and A.A. Velasco, High resolution Rayleigh wave slowness tomography of central Asia, *J. Geophys. Res.*, *110*, doi:10.1029/2004JB003429, 2005.
54. Dugda, Mulugeta T. , Andrew A. Nyblade, Jordi Julià, Charles A. Langston, Charles J. Ammon, and Silas Simiyu, Crustal structure in Ethiopia and Kenya from receiver function analysis: Implications for rift development in eastern Africa, *J. Geophys. Res.*, *110*, doi:10.1029/2004JB003065, 2005
55. Velasco, A. A., C. J. Ammon, J. Farrell, K. Pankow, Rupture Directivity of the November 3, 2002 Denali Earthquake determined from surface waves, *Bull. Seism. Soc. Am.*, *94*, S293-S299, 2004.

56. Julià, J., R.B. Herrmann, C.J. Ammon and A. Akinci. Evaluation of deep sediment velocity structure in the New Madrid Seismic Zone, *Bull. Seism. Soc. Am.* 94, 334-340, 2004
57. Julià, J., C. J. Ammon, and R. B. Herrmann, Lithospheric Structure of the Arabian Shield from the Joint Inversion of Receiver Functions and Surface Wave Dispersion, *Tectonophysics*, 371, 1-21, 2003.
58. Stich, D., C. J. Ammon, and J. Morales, Orientation of crustal stress in the Ibero-Maghreb region from waveform modeling of small to moderate earthquakes, *J. Geophys. Res.*, 108, 10.1029/2002JB002057, 2003.
59. Mancilla, F., C. J. Ammon, R. B. Herrmann, and J. Morales, Faulting Parameters Of The 1999 Mula Earthquake, Southeastern Spain, *Tectonophysics*, 354, 139-155, 2002.
60. Mokhtar, T., C. J. Ammon, R. B. Herrmann, and H. A. A. Ghalib, Surface Wave velocities across Arabia, *Pure and Applied Geophysics*, 158, pp 1425-1444, 2001.
61. Velasco, A. A., C. J. Ammon, and S. Beck, Broadband source modeling of the November 8, 1997 Tibet (Mw = 7.5) earthquake and its tectonic implications, *J. Geophys. Res.*, 105, 28,065-28,080, 2000.
62. Maceira, M., C.J. Ammon, and R.B. Herrmann, Faulting Parameters of the September 25, 1998 Pyramating, Pennsylvania Earthquake, *Seismol. Res. Letters*, 71, 714-724, 2000.
63. Julià, J., C.J. Ammon, R.B. Herrmann, and A.M. Correig, Joint inversion of receiver function and surface wave dispersion observations, *Geophys. J. Int.*, 143, 1-19, 2000.
64. Ligorria, J. and C. J. Ammon, Iterative deconvolution of teleseismic seismograms and receiver function estimation, *Bull. Seism. Soc. Am.*, 89, 1395-1400, 1999.
65. Carlo, D., T. Lay, C. J. Ammon, and J. Zhang, The rupture processes of the great 1995 Antofagasta, Chile earthquake, *Pure and Applied Geophysics*, 677-709, 1999.
66. Ghose, S. , M. Hamburger, and C. J. Ammon, Earthquake processes in the eastern Tien Shan, *Geophys. Res. Lett.*, 25, 3181-3184, 1998.
67. Ammon, C. J., R. B. Herrmann, C. A. Langston and H. Benz, Source parameters of the January 16, 1994 Wyoming Hills, Pennsylvania earthquakes, *Seism. Res. Letters*, 69, 261-269, 1998.
68. McNamara, D. E., W. R. Walter, T. J. Owens and C. J. Ammon, Upper mantle velocity structure beneath the Tibetan Plateau from Pn travel time tomography, *J. Geophys. Res.*, 102, 493-505, 1997.
69. Herrmann, R. B., and C. J. Ammon, Faulting Parameters of earthquake in the New Madrid, Missouri Region, *Engineering Geology*, 46, 299-311, 1997.
70. Velasco, A. A., C. J. Ammon, and T. Lay, Rupture Processes of the 1990 Luzon, Philippines (Mw = 7.7) earthquake, *J. Geophys. Res.*, 101, 22,419-22,434, 1996.
71. 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.
72. Courboux, F. S. K. Singh, J. F. Pacheco, and C. J. Ammon, The October 9, 1995 Colima-Jalisco (Mexico) earthquake (Mw 8), Part II: A study of the rupture process, *Geophys. Res. Lett.*, 24, 1019-1022, 1996.
73. Zandt, G., S. L. Beck, S. R. Ruppert, C. J. Ammon, D. Rock, E. Minaya, T. C. Wallace and P. G. Silver, Anomalous crust of the Bolivian Altiplano, central Andes: Constraints from broadband regional seismic waveforms, *Geophys. Res. Lett.*, 23, 1159-1162, 1996.
74. Zandt, G., and C. J. Ammon, Continental Crustal composition constrained by measurements of crustal Poisson's ratio, *Nature*, 374, 152-154, 1995.

75. Velasco, A. A., C. J. Ammon and T. Lay, Source time function complexity of the great 1989 Macquarie Ridge earthquake, *J. Geophys. Res.*, *100*, 3989-4009, 1995.
76. Randall, G. R. , C. J. Ammon and T. J. Owens (1994). Moment-tensor estimation using regional seismograms from a Tibetan Plateau portable network deployment, *Geophys. Res. Lett.*, *22*, 1665-1668, 1995.
77. Velasco, A. A., C. J. Ammon, T. Lay and J. Zhang, Imaging a slow bilateral rupture with broadband seismic waves: the September 2, 1992 Nicaragua Tsunami Earthquake, *Geophys. Res. Lett.*, *21*, 2629-2632, 1994.
78. Velasco, A. A., C. J. Ammon and T. Lay, Empirical Green function deconvolution of broadband surface waves: Rupture directivity of the 1992 Landers, California (Mw = 7.3) earthquake, *Bull. Seismol. Soc. Am.*, *84*, 735-750, 1994.
79. Velasco, A. A., C. J. Ammon and T. Lay, Recent large earthquakes near Cape Mendocino and in the Gorda Plate: Broadband source time functions, fault orientations, rupture complexities, *J. Geophys. Res.*, *99*, 711-728, 1994.
80. Lay, T., J. Ritsema, C. J. Ammon, T. C. Wallace, Rapid source-mechanism analysis of the April 29, 1993 Cataract Creek (Mw = 5.3), northern Arizona earthquake, *Bull. Seismol. Soc. Am.*, *84*, 451-457, 1994.
81. Lay, T., C. J. Ammon, A. A. Velasco, J. Ritsema, T. C. Wallace and H. J. Patton, Near-real time seismology: rapid analysis of earthquake faulting, *GSA Today*, *4*, 132-134, 1994.
82. Ammon, C. J., T. Lay, A. A. Velasco and J. E. Vidale, Routine estimation of earthquake source complexity: the October 18, 1992 Colombian earthquake, *Bull. Seismol. Soc. Am.*, *84*, 1266-1271, 1994.
83. Mangino, S. G., G. Zandt and C. J. Ammon, The receiver structure beneath Mina, Nevada, *Bull. Seismol. Soc. Am.*, *83*, 542-560, 1993.
84. Ammon, C. J., A. A. Velasco, T. Lay, Rapid estimation of rupture directivity: Application to the 1992 Landers (Ms = 7.4) and Cape Mendocino (Ms = 7.2) California Earthquakes, *Geophys. Res. Lett.*, *20*, 97-100, 1993.
85. Ammon, C. J., and G. Zandt, The receiver structure beneath the southern Mojave Block, *Bull. Seismol. Soc. Am.*, *83*, 737-755, 1993.
86. Ammon, C. J., and J. E. Vidale, Tomography without Rays, *Bull. Seismol. Soc. Am.*, *83*, 509-528, 1993.
87. Ammon, C. J., The isolation of receiver effects from teleseismic P waveforms, *Bull. Seismol. Soc. Am.*, *81*, 2504-2510, 1991.
88. Langston, C. A., and C. J. Ammon, Scattering of teleseismic body waves along the Hayward-Calaveras Fault system, *Bull. Seismol. Soc. Am.*, *81*, 576-591, 1991.
89. Langston, C. A., K. P. Furlong, K. S. Vogfjord, R. H. Clouser and C. J. Ammon, Analysis of teleseismic body waves radiated from the Loma Prieta Earthquake, *Geophys. Res. Lett.*, *17*, 1405-1408, 1990.
90. Ammon, C. J., G. E. Randall and G. Zandt, On the non-uniqueness of receiver function inversions, *J. Geophys. Res.*, *95*, 15303-15318, 1990.
91. Ammon, C. J., J. Zucca and P. Kasameyer, An S-to-P Converted phase recorded near Long Valley/Mono Craters Region, California, *J. Geophys. Res.*, *94*, 17,721-17,727, 1989.

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.
3. Ammon, C. J., M. Maceira, M. Cleveland, 3d Modeling Of Iran And Surrounding Areas From Simultaneous Inversion Of Multiple Geophysical Datasets, NNSA/AFRL 2010 Monitoring Research Review, Orlando, FL, September, 2010.
4. Ammon, C. J., M. Maceira, M. Cleveland, 3d Modeling Of Iran And Surrounding Areas From Simultaneous Inversion Of Multiple Geophysical Datasets, NNSA/AFRL 2009 Monitoring Research Review, Tucson, AZ, September, 2009.
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.
6. Ammon, C. J. and T. Lay, USArray and Detection of Underground Nuclear Tests, *EarthScope OnSite Newsletter*, Featured science article, Summer 2007.
7. Ammon, C. J. and T. Lay, USArray Records the 9 October 2006 North Korean Nuclear Test, *Eos, Trans. American Geophys. Union*, 88, pages 37, 38, 2007.
8. Ammon, C. J., W. Sevilla, R. B. Herrmann, and G. E. Randall, Systematic inversion of receiver functions and surface wave dispersion for crustal structure in central Asia, *Proceedings of the 26th Seismic Research Review: Trends in Nuclear Explosion Monitoring*, September 29-38, 2004, pages 17-28, 2004.
9. Ammon, C. J., M. Kosarian, R. B. Herrmann, M. E. Pasyanos, W. R. Walter, and H. Tkalcic, 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 26th Seismic Research Review: Trends in Nuclear Explosion Monitoring*, September 21-23, 2004, pages 17-28, 2004.
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.
11. Ammon, C. J., G. Randall, and J. Julià, Improving Estimates of Depth, Magnitude, and Faulting Parameters of Earthquakes in Central Asia, *Proceedings of the 25th Seismic Research Review: Building the Knowledge Base*, October 2-5, 2003, pages 17-23, 2003.
12. Ammon, C. J., G. Randall, J. Julià, R. Herrmann, E. Arias, and T. Diehl, Systematic Inversion of Receiver Functions & Surface-Wave Dispersion for Crustal Structure in Central Asia, *Proceedings of the 25th Seismic Research Review: Building the Knowledge Base*, October 2-5, 2003, pages 17-23, 2003.
13. 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 24th Seismic Research Review: Worldwide Monitoring of Nuclear Explosions*, September 16-19, 2002, 2003, pages 34-42, 2002.

14. Herrmann, R. B., and C. J. Ammon, Algorithms for region structure: Progress and applications, *Proceedings of the 24th Seismic Research Review: Worldwide Monitoring of Nuclear Explosions*, September 16-19, 2002, 5 pages, 2002.
15. Ammon, C. J., G. E. Randall, J. Julià, R. B. Herrmann, and E. Arias, Systematic inversion of receiver functions and surface wave dispersion for crustal structure in central Asia, *Proceedings of the 24th Seismic Research Review: Worldwide Monitoring of Nuclear Explosions*, September 16-19, 2002, 9 pages, 2002.
16. Ammon, C. J., G. E. Randall, J. Julià, and E. Arias, Improving Estimates of Depth, Magnitude, and Faulting Parameters of Earthquakes in Central Asia, *Proceedings of the 24th Seismic Research Review: Worldwide Monitoring of Nuclear Explosions*, September 16-19, 2002, 8 pages, 2002.
17. Herrmann, R. B., C. J. Ammon, and J. Julià, Application of Joint Receiver-Function Surface-Wave Dispersion For Local Structure in Eurasia, *Proceedings of the 23rd Seismic Research Review: Worldwide Monitoring of Nuclear Explosions*, October 2-5, 2001, pages 46-54, 2001.
18. Ammon, C. J., M. L. Pyle, G. E. Randall, and A. A. Velasco., Refining faulting parameters and depth estimates for earthquakes in eastern Asia, *Proceedings of the 23rd Seismic Research Review: Worldwide Monitoring of Nuclear Explosions*, October 2-5, 2001, pages 483-489, 2001.
19. Randall, G. E and C. J. Ammon, of the Joint inversion of waveforms and spectra for earthquake faulting parameters, *Proceedings of the 22nd Seismic Research Review*, New Orleans, LA - September, 2000.
20. Herrmann, R. B., C. J. Ammon, J. Julià, Proceedings of the Joint inversion of Receiver Functions and Surface-Wave Dispersion, *Proceedings of the 22nd Annual Seismic Research Review*, New Orleans, LA - September, 2000.
21. Herrmann, R. B., C. J. Ammon, J. Julià, and T. Mokhtar, Proceedings of the Joint inversion of Receiver Functions and Surface-Wave Dispersion, *Proceedings of the 21st Annual Seismic Research Review*, Las Vegas, NV - September, 1999.
22. Ammon, C. J., A comparison of deconvolution techniques, *Lawrence Livermore National Laboratory Technical Report, UCID-ID-111667*, 1992.

Abstracts & Conference Presentations

1. Dean, CA, Ammon, CJ and Chai, C, Surface-wave relocation of remote moderate-to-large magnitude earthquakes along the Southwest Indian Ridge, In AGU Fall Meeting Abstracts, 2021.
2. Kupp, S, Ammon, CJ, and Maceira, M, Near-Surface Shear-Wave Speed Estimates from P-wave Amplitude Ratios, In AGU Fall Meeting Abstracts, 2021.
3. Pippin, JE, Phillips, WS, Cleveland, M, and Ammon, CJ, Spectral Ratios from the Source Physics Experiment, In AGU Fall Meeting Abstracts, 2021.
4. Deane, C. A., Ammon, C. J., White-Gaynor, A., Mangongolo, A., Nyblade, A., and Durrheim, R. J. (2020, December). Effects of Source Scaling on Local-Distance P/S Amplitude Ratios for Seismic-Source Discrimination. In AGU Fall Meeting Abstracts (Vol. 2020, pp. S049-07).
5. Deane, Chanel A., Austin White-Gaynor, Charles J. Ammon, Azangi Mangongolo, Andrew Nyblade, and Raymond J. Durrheim. "Observations from P/S Amplitude Ratios from Local-Distance Mine Related Seismic Events and Earthquakes in South Africa." AGUFM 2019 (2019): S21H-0614.
6. Kintner, J. A., Cleveland, M., Ammon, C. J., Nyblade, A., and Homman, K. (2019). Precise Relative Magnitude and Relative Location Estimates of Low-Magnitude Industrial Blasts in Pennsylvania and Wyoming. AGUFM, 2019, S11E-0415.

7. Herrmann, R. B., Benz, H., and Ammon, C. J. (2019). Challenges and Future Directions for Moment Tensor Determination. AGUFM, 2019, S13B-02.
8. Raveloson, Andriamiranto, Nyblade, Andrew, Ammon, Charles, Durrheim, Raymond, „3D Structure of the Congo Basin from Surface Wave and Gravity Joint Inversion, EGU General Assembly Conference Abstracts, 20, 16850, 2018.
9. White-Gaynor, Austin, Nyblade, A, Durrheim, RJ, Ammon, CJ, Cleveland, M, Using Phase Amplitude Ratios to Differentiate Blast, Collapse, and Fault Slip Seismic Events from Deep Gold Mines in South Africa”, AGU Fall Meeting Abstracts, 2018
10. Pourpoint, Maeva, Anandakrishnan, S, Ammon, CJ, Alley, RB, Constraints on the Lithospheric Structure and Tectonic Evolution of Greenland from Surface Wave Tomography, AGU Fall Meeting Abstracts, 2018.
11. Ammon. C. J., INVITED - Visualization and Interaction in Research, Teaching, and Scientific Communication, Abstract ED11C-0137 presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec. 2017.
12. Kintner, J. C. J. Ammon, and K. M Cleveland, Surface-Wave Relocation of Remote Continental Earthquakes, Abstract S13B-0655, presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec. 2017.
13. Chai, C., Larmat, M. Maceira, Ammon. C. J., R. He, H. Zhang, Clustering P-Wave Receiver Functions To Constrain Subsurface Seismic Structure, Abstract S43A-0830, presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec. 2017.
14. White-Gaynor, A., M. Cleveland, A. Nyblade, J. A. Kintner, K. Homman, and Ammon. C. J., Short-Period Surface Wave Based Seismic Event Relocation, Abstract S53B-0667, presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec. 2017.
15. Pourpoint, M., S. Anandakrishnan, and C. J. Ammon, Lithospheric Structure of Greenland from Ambient Noise and Earthquake Surface Wave Tomography, Abstract T13B-0524, presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec. 2017.
16. Chai, C., C. J. Ammon, R. B. Herrmann, A. Mostafanejad, C. A. Langston, Seismic velocity structure beneath the eastern United States and northern Mississippi Embayment, Abstract S43B-2847 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec. 2016.
17. Chai, C., C. J. Ammon, M. Maceira, and R. B. Herrmann, Interactive visualizations of complex seismic data and models, Abstract ED43C-0875 at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec. 2016.
18. 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.
19. 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 SSA Annual Meeting, Reno, NV, Apr., 2016.
20. Kintner, J. and C. J. Ammon, Relative Earthquake Locations Using Surface Waves in Continental Regions, Abstract S31A-2717 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec. 2016.
21. Pourpoint. M., S. Anandakrishnan, C. J. Ammon, High Resolution Shear-Wave Velocity Structure of Greenland from Surface Wave Analysis, Abstract S33F-02 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec., 2016.

22. Leeman, J. and C. J. Ammon, Measuring the Seismic and Acoustic Time of Flight - Lessons in Earthquakes and Thunder, Abstract ED11B-0897 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec., 2016.
23. Maceira, M., E.M. Syracuse, C.J. Ammon, H. Zhang, C. Chai, Simultaneous joint inversion of disparate geophysical observations for 3D geophysical modelling, 17th International Seismix Symposium, Aberdeen University, Scotland (Seismix is an international symposium on seismic imaging that is held every two years).
24. Mostafanejad, A., C. Langston, C. Chai, C. J. Ammon (2016), 3D averaged and gradient P- and S- wave velocity models for the unconsolidated Mississippi embayment sediments, 2016 SSA Annual Meeting, Reno, NV, Apr., 2016.
25. Vieceli, R, Ammon, C J, Cleveland, K M, (2015), Detecting and Locating Small Earthquakes Along Remote Oceanic Transform Faults, Abstract S53A-2779 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
26. Cleveland, M, Ammon, C J, Vandemark, T F, Relative earthquake location for remote offshore and tectonically active continental regions using surface waves, (2015), Abstract S11A-2762 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
27. Chai, C, Ammon, C J, Maceira, M, Herrmann, R B, Simultaneous Inversion of Interpolated Receiver Functions, (2015) Surface-wave Dispersion, and Gravity Observations for Lithospheric Structure Beneath the Eastern United States, Abstract S14A-06 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
28. Larmat, C. S., Maceira, M., Romanowicz, B. A., Chai, C., Ammon, C. J., Zhang, H., East Asia Regionalization Based on Receiver Functions, (2015), Abstract S23C-2733 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
29. Pourpoint, M., Anandkrishnan, S., Ammon, C. J., Chai, C., (2015), Crustal and Uppermantle Velocity Structure of Greenland from Ambient Noise and Earthquake Surface Wave Tomography, Abstract S23D-2783 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
30. Ammon, C. J., iOS and OS X Apps for Exploring Earthquake Activity, Abstract T13D-3039 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec, INVITED.
31. Chai, C., C. J. Ammon, M. Maceira, R. B. Herrmann (2015), Simultaneous inversion of interpolated receiver functions, surface-wave dispersion, and gravity observations for lithospheric structure beneath the western and eastern United States, 2015 EarthScope National Meeting, Stowe, VT, June.
32. Larmat, C. S., Maceira, M., Romanowicz, B., Chai, C., Ammon, C. J., He, R., Zhang, H., Regionalization Based On Receiver Functions (2015), Abstract - Seismological Society of America Meeting, Pasadena, CA, 21-23 April, 2015.
33. Syracuse, E. M. Maceira, M., Prieto, G. A., Zhang, H., Ammon, C. J., Joint Inversion Of Seismic And Gravity Data For Velocity Structure And Hypocentral Locations Of The Colombian Subduction Zone, Abstract - Seismological Society of America Meeting, Pasadena, CA, 21-23 April, 2015.
34. Vieceli, Rhiannon, C. Ammon, M. Cleveland (2014), Detecting Small Earthquakes on Remote Oceanic Transform Faults, Abstract T41B-4607 presented at December, 2014 Fall Meeting, AGU, San Francisco, CA, USA.
35. Ammon, C. J., M. Cleveland, (2014) Remote Imaging of Earthquake Characteristics Along Oceanic Transforms, Abstract T41B-4606 presented at December, 2014 Fall Meeting, AGU, San Francisco, CA, USA.

36. Chai, C., C. Ammon, R. Herrmann (2014), Simultaneous Inversion of Receiver Functions, Surface-wave Dispersion, and Gravity Observations for Lithospheric Structure Beneath the Central and Eastern United States, Abstract S33A-4481 presented at December, 2014 Fall Meeting, AGU, San Francisco, CA, USA.
37. Leeman, John, C. Ammon, S. Anandakrishnan (2014), Using Low Cost Environmental Sensors in Geoscience Education, Abstract ED34C-08 presented at December, 2014 Fall Meeting, AGU, San Francisco, CA, USA.
38. Larmat, Carene, M. Maceira, Y. Kato, T. Bodin, M. Calo, B. Romanowicz, C. Chai (2014) Stochastic Monte-Carlo Markov Chain Inversions on Models Regionalized Using Receiver Functions, Abstract S53A-4493 presented at December, 2014 Fall Meeting, AGU, San Francisco, CA, USA.
39. Maceira, Monica, C. Larmat, C. Ammon, C. Chai, R. Herrmann, (2014) Full-Waveform Validation of a 3D Seismic Model for Western US, Abstract S33A-4476 presented at December, 2014 Fall Meeting, AGU, San Francisco, CA, USA.
40. Syracuse, Ellen, M. Maceira, G. Prieta, H. Zhang, C. Ammon (2014) Joint Inversion of Seismic and Gravity Data for Velocity Structure and Hypocentral Locations of the Colombian Subduction Zone, Abstract T11C-4577 presented at December, 2014 Fall Meeting, AGU, San Francisco, CA, USA.
41. Chai, Chengping, C. Ammon, R. Herrmann (2014), Lithospheric Structure Beneath the Central and Eastern US from Joint Inversion of Interpolated Receiver Functions, Surface-wave Dispersion and Gravity Observations, Poster presented at June, 2014 Bi-Annual IRIS Workshop, Oregon, USA.
42. Maceira, Monica, C. J. Ammon, C. Chai, R. B. Herrmann (2014), Application of advanced multivariate inversion techniques to the western US, Presented at May, 2014 Annual meeting of the Seismological Society of America, Alaska, US.
43. Ammon, Charles J., What can you learn from a Million Receiver Functions? (2013) Abstract S24A-04 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
44. Chai, Chengping, C. J. Ammon, R. B. Herrmann, (2013), Simultaneous Inversion of Receiver Functions, Surface-wave Dispersion, and Gravity observations for Lithospheric Structure Beneath the Central United States, Abstract S23A-2473 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
45. Cleveland, M. and C. J. Ammon, Precise Relative Locations, Magnitudes and Source Properties of Oceanic Ridge Transform Faults Using Surface Waves (2013), Abstract S51C-2386 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
46. Steck, L, M. Maceira, C. J. Ammon, R. B. Herrmann (2013), Structure of the Lithosphere and Asthenosphere beneath the Western US from Simultaneous Multi-Parameter Inversion, Abstract S42C-02 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
47. Desser, E. M. and C. J. Ammon, Anisotropy Beneath The Tibetan Plateau - A Survey of Shear Wave Splitting Analyses, (2013), Seismological Society of America Annual Meeting, Salt Lake City, UT, USA.
48. Chai, Chengping, C. J. Ammon, and R. B. Herrmann, Joint Inversion of surface-wave dispersion, P-wave receiver functions, & gravity observations for lithospheric structure, EarthScope Annual Workshop, Raleigh, NC, May, 2013.
49. Steck, L., Maceira, M., Ammon, C., Herrmann, R. B., Crust and Upper Mantle Structure of the Western US from Simultaneous Inversion of Surface Wave Dispersion, Gravity, and Receiver Functions, Abstract presented at 2012 Seismological Society of America Meeting, Spring 2012.
50. Villasenor, A., Maceira, M., and Ammon, C. J., Shear Velocity Structure of the Iberian Peninsula Using Seismic and Gravity Observations, Abstract submitted to the 2012 Seismological Society of America Meeting, Spring 2012.

51. Cleveland, M, C. J. Ammon, and T. van DeMark, Oceanic Plate Boundary Seismicity Offshore of the U.S. Pacific Northwest and Southwestern Canada, Abstract presented at 2012 Fall Meeting, AGU, San Francisco, Calif., Dec, 2012.
52. Steck, L., Maceira, M., Ammon, C., Herrmann, H., Structure of the lithosphere and asthenosphere of the western US from simultaneous multi-parameter inversion, Abstract presented at 2012 Fall Meeting, AGU, San Francisco, Calif., Dec, 2012.
53. Ammon, C. J., Streaming Seismograms into Earth-Science Classrooms, Invited Abstract presented at 2011 Fall Meeting, AGU, San Francisco, Calif., Dec, 2011.
54. Cleveland, M, C. J. Ammon, and T. van DeMark, Surface-Wave Multiple-Event Relocation and Detection of Earthquakes along the Romanche Fracture Zone, Abstract presented at 2011 Fall Meeting, AGU, San Francisco, Calif., Dec, 2011.
55. Lay, T., H. Kanamori, C. J. Ammon, H. Yue, K. D. Koper, A. R. Hutko, and E. E. Brodsky, Depth-varying Rupture Properties of Subduction Zone Megathrust Faults, Abstract presented at 2011 Fall Meeting, AGU, San Francisco, Calif., Dec, 2011.
56. P. G. Richards, D. P. Schaff, C. J. Young, M. Slinkard, S. Heck, C. J. Ammon, and M. Cleveland, Data-Intensive Discovery Methods for Seismic Monitoring, Abstract presented at 2011 Fall Meeting, AGU, San Francisco, Calif., Dec, 2011.
57. Taber, J., M. Bahavar, R. K. Bravo, R. F. Butler, D. L. Kilb, C. M. Trabant, R. Woodward, C. J. Ammon, Visualizing how Seismic Waves Propagate Across Seismic Arrays using the IRIS DMS Ground Motion Visualization (GMV) Products and Codes, Abstract presented at 2011 Fall Meeting, AGU, San Francisco, Calif., Dec, 2011.
58. Ammon, C. J., M. Maceira, M. Cleveland, 3d Modeling Of Iran And Surrounding Areas From Simultaneous Inversion Of Multiple Geophysical Datasets, Hanscom Air Base, 2011.
59. Ammon, C. J. and M. Maceira, An Overview of the Seismic Regional Characterization Session, 2010 DOE/AFRL Monitoring Research Review, Orlando Florida, 2010.
60. Ammon, C. J., M. Maceira, M. Cleveland, 3d Modeling Of Iran And Surrounding Areas From Simultaneous Inversion Of Multiple Geophysical Datasets, 2010 Monitoring Research Review, Orlando, Florida, 2010.
61. Barrett, S., C. J. Ammon, Analysis Of Repeating Events And Implications For Fault Zone Behavior Beneath The Aceh Basin, Northern Sumatra, Abstract S53E-05 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec, 2010.
62. Miller, V., B. Voight, C. J. Ammon, and E. Shalev, G. Thompson, Seismic expression of magma-induced crustal strains and localized fluid pressures during initial eruptive stages, Soufriere Hills volcano, Montserrat, Abstract V21E-2378 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec, 2010.
63. Cleveland, M, C. J. Ammon, and T. Lay, Interacting Earthquakes Along the Northern Vanuatu Subduction Zone, Abstract S43A-2041 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec, 2010.
64. Baag, S-Y, C. J. Ammon, and M. Cleveland, The 20 March 2008, Mw 7.1, Northern Tibet Normal Faulting Earthquake, Abstract S21C-2042 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec, 2010.
65. Lay, T. and C. J. Ammon, (INVITED) Resolution and Trade-offs in Finite Fault Inversions for Large Earthquakes Using Teleseismic Signals, Abstract S41D-01 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec, 2010.

66. Ammon, C. J., M. Maceira, M. Cleveland, 3D Structure of Iran and Surrounding Areas From The Simultaneous Inversion of Complementary Geophysical Observations, Abstract S53B-1976 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec, 2010.
67. Koper, K., A. Hutko, T. Lay, C. J. Ammon, and H. Kanamori, Imaging the rupture of the 27 February 2010 Chile (Mw 8.8) earthquake via backprojection of P, PP, and PKP waves, Abstract G33A-0814 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec, 2010.
68. Young, A. J., V. Miller, C. J. Ammon, B. Voight, V. Bass, Poissons Ratio of the Upper Crust Beneath Montserrat, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract S41C-1947, 2009.
69. Barrett, S. and C. J. Ammon, Teleseismic Analysis of Repeating Events Beneath the Aceh Basin, Northern Sumatra, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract T23B-1925, 2009.
70. Cleveland, M., C. J. Ammon, T. Lay, H. Kanamori, Analysis of Recent Major Outer-Rise Earthquake Rupture Characteristics, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract S53A-1471, 2009.
71. Ammon, C. J., M. Maceira, M. Cleveland, D Structure of Iran and Surrounding Areas From The Simultaneous Inversion of Complementary Geophysical Observations, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract S11C-05, 2009.
72. Lay, T., C. J. Ammon, A. R. Hutko, H. Kanamori, Effects of Kinematic Constraints on Teleseismic Finite-Source Rupture Inversions: Great Peruvian Earthquakes of 23 June 2001 and 15 August 2007, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract S34A-01, 2009.
73. Byerly, K., L. D. Brown, B. Voight, V. Miller, C. J. Ammon, Reflection Imaging of Deep Structure beneath Montserrat using Microearthquake Sources, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract S23B-1757, 2009.
74. Lay, T., C. J. Ammon, H. Kanamori, Great Samoa Earthquake (Mw = 8.2) of 29 September 2009, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract U21D-05, 2009.
75. Ammon, C. J., R. Woodward, K. Furlong, T. Lay, Visualizing the Seismic Wavefield With EarthScope's Transportable Array, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract ED21C-02.
76. Furlong, K. P., C. J. Ammon, and T. Lay, Lithospheric Scale Deformation in Mega-thrust Subduction Zones, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract T11D-08.
77. Modrak, W. , C. J. Ammon, V. Miller, and B. Voight, Seismic Event Locations Beneath Montserrat, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract V51C-2039.
78. Sevilla, W. , C. J. Ammon, V. Miller, and B. Voight, Teleseismic Imaging of Crustal Structure and Magma Storage Regions Beneath Montserrat, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract V51C-2040.
79. Miller, V J. Ammon, V. Miller, and B. Voight, Seismic Event Locations Beneath Montserrat, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract V51C-2039.
80. Miller, V., B. Voight, C. J. Ammon, and S. DeAngelis, Source Mechanisms of High-Frequency-Onset Earthquakes Recorded Beneath Soufriere Hills Volcano, Montserrat, During SEA-CALIPSO Deployment, Oct-Dec 2007, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract V51C-2041.
81. Voight, B. 11 others, Conundrum on magmatic reservoir of Soufriere Hills volcano, Montserrat: enigmatic evidence and the case for a vertically-elongated reservoir, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract V53C-08.
82. Miller, V.L., Ammon, C., Voight, B., De Angelis, S. Source mechanisms of high-frequency-onset earthquakes recorded beneath Soufriere Hills volcano, Montserrat during October-December 2007. International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Congress, Reykjavik, Iceland, 2008.

83. Voight, B., Shalev, E., Hidayat, D., Kennedy, K.L., Brown, L., Minshull, T., Sparks, R.S.J., Snelson, C., Mattioli, G.S., Miller, V., Widiwijayanti, C., Stewart, R., Carothers, L., Johnson, M., Zamora, W., Herd, R., Malin, P.E., Ammon, C., Elsworth, D., Saldana, S., Paulatto, M., De Angelis, S., Byerly, K., Kiddle, E., Bass, V., Bellousov, A., Chen, C., Clarke, A.B., Christensen, B., Christopher, T., Custance-Baker, A. The SEA-CALIPSO volcano imaging experiment on Montserrat: Part 1. Onshore deployments, tomography, and images from onshore stations. IAVCEI Congress, Reykjavik, Iceland, 2008.
84. Hidayat, D.H., Voight, B., Ammon, C., Widiwijayanti, C., Attenuation structure of lithosphere about Soufriere Hills Volcano, Montserrat, WI. IAVCEI Congress, Reykjavik, Iceland, 2008.
85. Ammon, C. J. and T. Lay, Exploring the Seismic Wavefield with EarthScopes Transportable Array (INVITED), *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract S44B-03, 2007.
86. E. Todd, and C. J. Ammon, Characteristics of Recent Moderate-Magnitude Seismic Activity in the Gulf of Mexico, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract S52B-03, 2007.
87. Ahern, T., R. Casey, L. Kamb, M. Zeleznik, and Ammon, C. J., New Data Products Available at the IRIS Data Management Center, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract S44B-04, 2007.
88. Ammon, C. J., H. Kanamori, T. Lay, and A. A. Velasco, The 17 July 2006 Java Tsunami Earthquake (Mw = 7.8) (INVITED), *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract S14A-01, 2006.
89. Maceira, M. and C. J. Ammon, 3D Velocity-Density Variations Beneath Central Asia From Surface-Wave Dispersion and Gravity Observations (INVITED), *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract T42B-03, 2006.
90. Lay, T., C. J. Ammon, and A. A. Velasco, Driven Slip in the Northern Section of the 2004 Sumatra-Andaman Earthquake Rupture Zone (INVITED), *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract U44A-02, 2006.
91. Miller, V., C. Ammon, B. Voight, G. Thompson, Precise hypocenter location of high-frequency-onset earthquakes, during the initial stages of activity at Soufriere Hills volcano, Montserrat, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V11B-0586, 2006.
92. Hayes, G., K. Furlong, C. J. Ammon, and X. Zeng, Relocations and Rupture Processes of Large Plate Boundary Earthquakes in Fiordland, South Island, New Zealand, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract T43D-1684, 2006.
93. Van DeMark, T. and C. J. Ammon, Moderate and Large Earthquake Activity Along Oceanic Transform Faults, *Seismol. Res. Lett.*, 77, pp. 211, 2006.
94. Maceira, M. and C.J. Ammon, Joint Inversion of Surface Wave Velocity and Gravity Observations and its Application to Central Asian Shear Velocity Structure, *Seismol. Res. Lett.*, 77, pp. 297, 2006.
95. Ammon, C. J., Frontiers and New Opportunities for Seismic Monitoring Research (INVITED), *Seismol. Res. Lett.*, 77, pp. 193, 2006.
96. Dugda, M T, A. A. Nyblade, J. Julià, and C. J. Ammon, Lithospheric Structure Beneath Ethiopia Using Joint Inversion of Receiver Functions and Surface Wave Group Velocities, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract S41E-04, 2005.
97. Kosarian, M., W. I. Sevilla, C. J. Ammon, R. B. Herrmann, Crustal Thickness and Poisson's Ratio of Continental Crust, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract S51A-0986, 2005.
98. Sevilla, W I, C. J. Ammon, , G. E. Randall, R. B. Herrmann, The Lithospheric Shear-Velocity Structure of Eastern Eurasia, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract T54A-01 (INVITED), 2005.
99. Ammon, C J, A. A. Velasco, T. Lay, Mapping The Ruptures of the Great Sumatra-Andaman Earthquakes, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract U22A-01, 2005.

100. Furlong, K. P., and C. J. Ammon, Active learning in a large enrollment class; what works with 150+ students, in *Abstracts with Programs - Geological Society of America*, edited, pp. 262, 2005.
101. Miller, V, C. J. Ammon, B. Voight, and G. Thompson, Precise hypocenter location of high-frequency-onset earthquakes and changing stress conditions beneath Soufriere Hills volcano, Montserrat, *The Soufriere Hills Volcano - Ten Years On Symposium*, Montserrat, 24-30 July, 2005.
102. Maceira, M., C.J. Ammon, and S.R. Taylor, Shear Velocity Structure of Central Asian Basins from Surface Wave Velocity Inversions, *Seism. Res. Letters*, 76, pp. 233, 2005.
103. Ammon, C J, Velasco, A, Lay, T, Rupture Process of the Great Sumatra-Andaman Earthquake, *Eos Trans. AGU*, 85, *Spring Meet. Suppl.*, 2005.
104. Herrmann, R B, Ammon, C J, Koper, K D, GSAC - Generic Seismic Application Computing, *Eos Trans. AGU*, 85, *Fall Meet. Suppl.*, Abstract S53B-0223, 2004.
105. Ammon, C J, Relative Earthquake Location Using Surface Waves, *Eos Trans. AGU*, 85, *Fall Meet. Suppl.*, Abstract S11B-1015, 2004.
106. Miller, V, Thompson, G, Voight, B, Ammon, C, Precise Hypocenter Location of High-Frequency-Onset Earthquakes, Tomography, and Changing Stress Conditions Beneath Soufriere Hills Volcano, Montserrat, *Eos Trans. AGU*, 85, *Fall Meet. Suppl.*, Abstract V14B-05, 2004.
107. Sevilla, W I and Ammon, C J, Earthquake Rupture Processes Along the Philippine Trench, *Eos Trans. AGU*, 85(47), *Fall Meet. Suppl.*, Abstract S53A-0177, 2004.
108. Dugda, M T, Nyblade, A A, Julià, J , Ammon, C, Upper mantle structure beneath Ethiopia from a joint inversion of receiver functions and surface wave dispersion, *Eos Trans. AGU*, 85, *Fall Meet. Suppl.*, Abstract S13B-1052, 2004.
109. Maceira, M, Taylor, S R, and Ammon C J, Bayesian Approach to Short Period Slowness Tomography in Central Asia, *Eos, Trans. AGU*, 84, *Fall Meet. Suppl.*, Abstract S32B-0847, 2003.
110. Kosarian, M, Ammon, C J, Pasyanos, M E, Walter, W R, and Herrmann, R B, Investigation of crustal structure throughout Middle East, North Africa and Southern Europe using receiver functions and surface-wave dispersion, *Eos, Trans. AGU*, 84, *Fall Meet. Suppl.*, Abstract S32B-0850, 2003.
111. Ammon, C J, Randall, G E, and Sevilla, W I, Lithospheric Structure Beneath Asia From Surface-Waves and Receiver Functions, *Eos, Trans. AGU*, 84, *Fall Meet. Suppl.*, Abstract S32B-0845, 2003.
112. Julià, J, Ammon, C J, Structure of the Lithospheric Keel Beneath the Tanzania Craton From the Joint Inversion of Receiver Functions and Surface-Wave Dispersion, *Eos, Trans. AGU*, 84, *Fall Meet. Suppl.*, Abstract S52J-05, 2003.
113. Hayes, G. P., Furlong, K. P., Schwartz, S. Y., Ammon, C. J., Hall, C., Integrating Seismological Studies of Crustal Structure in the Northern California Coast Ranges to Construct a Regional 3D Strain Model, *Eos, Trans. AGU*, 84, *Fall Meet. Suppl.*, Abstract T51C-04, 2003.
114. Herrmann, R. B., Ammon, C. J., and Benz, H M, Surface-wave Derived Focal Mechanisms in Mid-America, *Eos, Trans. AGU*, 84, *Fall Meet. Suppl.*, Abstract S42E-0206, 2003.
115. Velasco, A. A., W. I. Sevilla, C. Flores, and C. J. Ammon, Rupture Processes of the November 3, 2002 Denali (M=7.9) Earthquake, *Eos Trans. AGU*, 83, *Fall Meet. Suppl.*, Abstract S72F-1341, 2002.
116. Kosarian, M., C. J. Ammon, J. Julià, M. E. Pasyanos, R. B. Herrmann, and W. R. Walter, Lithospheric Structure Beneath The Middle East, Southern Europe, and North Africa, *Eos Trans. AGU*, 83, *Fall Meet. Suppl.*, Abstract S62A-1168, 2002.
117. Julià, J., C. J. Ammon, R. B. Herrmann, S-Wave Velocity Models Under the Saudi Arabian Portable Broadband Deployment: Evidence for Lithospheric Erosion Beneath the Arabian Shield, *Eos Trans. AGU*, 83, *Fall Meet. Suppl.*, Abstract T61A-1219, 2002.

118. Herrmann, R. B., C. J. Ammon, F. Leyton, and A. Fatehi, Focal Mechanisms for Recent Earthquakes in the ANSS Mid-America Region, *Eos Trans. AGU*, 83, Fall Meet. Suppl., Abstract S21B-0986, 2002.
119. Diehl, T., and C. J. Ammon, Crustal Structure Beneath the Tibetan Plateau Using Receiver Functions and Surface Wave Dispersion Observations, *Eos Trans. AGU*, 83, Fall Meet. Suppl., Abstract S62A-1170, 2002.
120. Arias, E. Y., and C. J. Ammon, Short-Period Surface-Wave Tomography Beneath the Central and Eastern Tibetan Plateau, *Eos Trans. AGU*, 83, Fall Meet. Suppl., Abstract S62A-1177, 2002.
121. Ammon, C. J., Seismic Source Inversion As A Multiple-Objective Optimization Problem, *Eos Trans. AGU*, 83, Fall Meet. Suppl., Abstract S62A-1167, 2002.
122. Herrmann, R. B., J. Julià, A. Akince, C. J. Ammon, Modeling Receiver Functions in the Mississippi Embayment: Effect of Thick Sedimentary Cover, *Eos, Trans. AGU*, 82, Fall Meet. Suppl., pp. F867, 2001.
123. Ammon, C. J., M. L. Pyle, G. E. Randall, A. A. Velasco, Faulting parameters and Depth Estimates for earthquakes in eastern Asia, *Eos, Trans. AGU*, 82, Fall Meet. Suppl., pp. F816, 2001.
124. Julià, J., C. J. Ammon, and R. B. Herrmann, Lithospheric Structure of the western US from the Joint Inversion of Receiver Functions and surface-wave dispersion observations, *Seismol. Res. Letters*, 72, pp. 287, 2001.
125. Mejia, J. A., J. Julià, C. J. Ammon, R. B. Herrmann, Lithospheric structure of the Tibetan Plateau inferred from the simultaneous inversion of receiver functions and surface-wave dispersion observations, *Seismol. Res. Lett.*, 72, pp. 287-288, 2001.
126. Mancilla, F., Ammon, C.J., Herrmann, R. B. Faulting Parameters Of The 1999 Mula, Spain Earthquake, *Seismol. Res. Letters*, 71, 237, 2000.
127. Malagnini, L., C. J. Ammon, and A. A. Velasco, Broadband investigations of recent large earthquakes in the Kamchatka subduction zone, *Seism. Res. Lett.*, 70, pp. 268, 1999.
128. Maceira, M., L. Malagnini, A. A. Velasco, and C. J. Ammon, Broadband rupture processes of the 1999 Izmit (Mw=7.4) and the 1999 Duzce (Mw = 7.2) Turkey earthquakes, *Eos, Trans. AGU*, 81, Fall Meet. Suppl., pp. 817, 2000.
129. Julià, J. Ammon, C.J., Herrmann, R. B., Lithospheric Structure beneath Western US from the Joint Inversion of Receiver Function and Surface-Wave Dispersion Observations, *Seism. Res. Lett.*, 71, pp. 215, 2000.
130. Akinici, Aybige, R. B. Herrmann, and C. J. Ammon, Upper-Crustal Structure Properties In The Mississippi Embayment And Its Around From Teleseismic Receiver Functions, *Seism. Res. Lett.*, 70, pp. 274, 1999.
131. Ketter, B., A. A. Velasco, G. E. Randall, and C. J. Ammon, Seismic Velocity Structure of Western China from Surface-Wave Dispersion, *Seismol. Res. Letters.*, pp. 254, 1999.
132. Julià, J., R. B. Herrmann, C. J. Ammon, and M A. Corrieg, Joint inversion of receiver function and surface-wave dispersion, *Eos, Trans. AGU*, 80, pp. F720, 1999.
133. Ammon, C. J., and G. E. Randall, Joint inversion of waveforms and spectra for earthquake faulting parameters, *Eos, Trans. AGU*, 80, pp. F661, 1999.
134. Ammon, C. J., Wiggles - A Seismogram Display/Processing Tool for the Macintosh, *Seismol. Res. Letters.*, 70, pp. 241-242, 1999.
135. Ligorria, Juan Pablo and C. J. Ammon, Poisson's Ratio Variations of the Crust Beneath North America, *Seismol. Res. Lett.*, 70, pp. 274, 1999.

136. Ligorria, J.P., and C. J. Ammon, An Investigation of the Crust-Mantle Transition Beneath North America, *Eos, Trans. of the AGU*, 78, pp. F654, 1998.
137. Ammon, C. J., Wiggles - A Seismogram Display/Processing Tool for the Macintosh, *Proceedings of the IRIS Teaching Seismology Using Educational Software Workshop, Santa Cruz, CA*, July 8, 1998.
138. Chang, T. M., C. J. Ammon, R. B. Herrmann, K. M. Shedlock, and A. F. Sheehan, Faulting parameters of the October 24, 1997 southern Alabama earthquake, *Seismol. Res. Lett.*, 69, pp. 175-176, 1998.
139. Velasco, A. A., K. Meares, S. Beck, C. J. Ammon, and M. Simons, Broadband Source Modeling of Large Intraplate 1997 Tibet ($M_s = 7.9$) Earthquake and the Tectonic Implications, *Eos, Trans. of the AGU*, 78, pp. F658, 1998.
140. Mokhtar, T., R. B. Herrmann, and C. J. Ammon, Lithospheric structure beneath Arabia, *Eos, Trans. of the AGU*, 78, pp. F499, 1997.
141. Carlo, D. L., T. Lay, and C. J. Ammon, Combining body wave signals and surface wave signals into finite source inversions: 1995 Antofagasta ($M_w = 8.0$) earthquake, *Eos, Trans. of the AGU*, 78, pg F645, 1997.
142. Carlo, D. L., T. Lay, and C. J. Ammon, Imaging finite-fault rupture complexities: The July 30, 1995 $M_w = 8.1$ Antofagasta event, *Seism. Res. Letters*, 68, pp. 315, 1997.
143. Swensen, J. L., S. Beck, T. Wallace, G. Zandt, C. J. Ammon, Investigation of the active tectonics of the Andean Eastern Cordillera in Bolivia using broadband regional waveform modeling of crustal earthquakes, *Eos, Trans. AGU*, 77, pp. F465, 1996.
144. Ligorria, J. P., C. Lindholm, and C. J. Ammon, Regional Seismic Hazard and Seismogenic Coupling of the Middle America Subduction Zone in Guatemala, *Eos, Trans. AGU*, 77, pp. F507, 1996.
145. Ammon, C. J., G. E. Randall, A. A. Velasco, and W. R. Walter, Exploring methods for inverting regional broad-band seismic waveforms for earth structure, *Eos, Trans. AGU*, 77, pp. F459, 1996.
146. Dustman, M. and C. J. Ammon, Shear-velocity variations beneath North America from Love- and Rayleigh-wave phase velocity data, *Seismol. Res. Lett.*, 67, pp. 476, 1996.
147. Zandt, G., S. Beck, S. Ruppert, C. J. Ammon, D. Rock, E. Minaya, T. Wallace, P. Silver, Anomalously slow crust: Seismic constraints on composition and rheology of the Bolivian Altiplano Crust, central Andes, *Eos Trans., AGU*, 76, pp. F373, 1995.
148. Swenson, J. L., S. Beck, C. J. Ammon, T. Wallace, P. Silver, Broadband waveform inversion of aftershocks of the 30 July, 1995 northern Chile earthquake, *Eos Trans., AGU*, 76, pp. F376, 1995.
149. Ammon, C. J., A. F. Sheehan, R. B. Herrmann, Modeling small eastern and central North American earthquakes with sparse, broad-band data, *Eos, Trans. AGU*, 76, pp. F427, 1995.
150. Dustman, M., C. J. Ammon, and H. Benz, Love- and Rayleigh-wave phase-velocity tomography for North America, *Eos, Trans. AGU*, 76, pp. F428, 1995.
151. Zandt, G. and C. J. Ammon, Global Variations of Poisson's ratio of the crust: Implications for crustal structure, *Eos Trans., AGU*, 75, pp. 65, 1994.
152. McNamara, D., W. R. Walter, C. J. Ammon, Upper mantle structure beneath the Tibetan Plateau determined from P_n travel time tomography, *Eos Trans., AGU*, 75, pp. 423, 1994.
153. Randall, G. E., C. Ammon, T. J. Owens, Source Mechanisms from regional seismograms within the Tibetan Plateau, *Eos Trans., AGU*, 75, pp. 481, 1994.
154. Ammon, C. J., R. B. Herrmann, C. A. Langston, and G.E. Randall, Moment-Tensor estimation for small eastern North American earthquakes using broadband regional waveforms, *Seismological Res. Lett.*, 65, 1994.

155. Ammon, C. J. Shallow P-velocity structure across the New Madrid Fault System, *Eos Trans., AGU*, 75, pp. 238, 1994.
156. Goes, S., J. Ritsema, T. Lay, A. Velasco, C. Ammon, The 1994 Fiji (M=7.6) and Bolivia (M=8.3) Events: Body Wave Analysis of two large deep earthquakes, *Eos Trans., AGU*, 75, pp. 468, 1994.
157. Zhang, Y., T. Lay and C. J. Ammon, Global surface-wave phase velocity variations, *Eos Trans., AGU*, 74, pp. 438, 1993.
158. Velasco, A. A., C. J. Ammon and T. Lay, Source time function complexity of the Great 1989 Maquarie Ridge earthquake, *Eos Trans., AGU*, 74, pp. 398, 1993.
159. Velasco, A. A., C. J. Ammon and T. Lay, Long-period source properties and rupture durations for recent large central American earthquakes, *Eos Trans., AGU*, 74, pp. 398, 1993.
160. Randall, C. J. Ammon, T. J. Owens, and F. T. Wu, Source mechanism studies using broadband regional seismograms recorded on the Tibetan Plateau, *Eos, Trans. AGU*, 74, pp. 207, 1993.
161. Ritsema, J., T. Lay and C. J. Ammon, The dependence of long-period wave propagation models on regional waveform inversion, *Eos Trans., AGU*, 74, pp. 430, 1993.
162. Mooney, W. D., J. Murphy, S. L. Li, J. McCarthy and C. J. Ammon, Seismic properties of the New Madrid fault from high resolution seismic refraction profiles, *Eos Trans., AGU*, 74, pp. 411-412, 1993.
163. Lay, T., A. A. Velasco and C. J. Ammon, Rapid determination of rupture complexity, *Seismol. Res. Letters*, 64, 1993.
164. Hagerty, M. T., S. Y. Schwartz and C. J. Ammon, Finite-fault modeling of the April 25, 1992 Cape Mendocino earthquake, *Eos Trans., AGU*, 74, pp. 399, 1993.
165. Ammon, C. J., G. Zandt and S. Ruppert, Upper-mantle P-velocity beneath central and northern California, *Eos Trans., AGU*, 74, pp. 420, 1993.
166. McCarthy, J., E. Criley, H. M. Benz and C. J. Ammon, Crustal structure of the southern Basin and Range Province: Preliminary results from the PACE 1992 refraction experiment in southeastern California, *Eos Trans., AGU*, 73, pp. 370, 1992.
167. Velasco, A. A., C. J. Ammon and T. Lay, Fault identification and rupture directivity of the April 25, 1992, Cape Mendocino, California, Earthquake, *Eos Trans., AGU*, 73, pp. 503, 1992.
168. Wallace, T. C., C. J. Ammon, T. Lay, J. Ritsema and H. Patton, Rapid source parameter retrieval at regional distances: A comparison of techniques, *Eos Trans., AGU*, 73, pp. 373, 1992.
169. Ammon, C. J., and W. R. Walter, Lithospheric structure beneath the Northern California Coast Ranges, *Seismological Res. Lett.*, 63, pp. 37, 1992.
170. Walter, W. R., C. J. Ammon, and Anonymous, Crustal velocity structure in eastern Kazakhstan, Eurasia, from broadband regional waveform inversion, in *Seismological Res. Lett.*, 63, pp. 43, 1992.
171. Ammon, C. J., and H. J. Patton, Lateral Shear-velocity variations beneath the western United States, *Eos Trans., AGU*, 73, pp. 369, 1992.
172. Walter, W. R., and C. J. Ammon, An inversion of broadband regional waveforms, *Frontiers of Broad Band Seismology, Symposium, Berkeley, CA, January, 1992.*
173. Zandt, G., and C. J. Ammon, Crustal Structures from single-station broadband receiver functions: How reliable are they?, *Frontiers of Broad Band Seismology, Symposium, Berkeley, CA, January, 1992.*
174. Ammon, C. J., and H. J. Patton, Lateral phase velocity variations throughout the western United States, *Frontiers of Broad Band Seismology, Symposium, Berkeley, CA, January, 1992.*

175. Lay, T., A. A. Velasco and C. J. Ammon, Rupture directivity of the June 28, 1992, Landers, California, Earthquake, *Eos Trans., AGU*, 73, pp. 383, 1992.
176. Walter, W. R., and C. J. Ammon, An inversion of broadband regional waveforms of the Soviet Joint Verification Experiment, *Eos Trans., AGU*, 72, pp. 351, 1991.
177. Ammon, C. J., and H. M. Benz, A finite-difference based inversion of Pg arrival times, *Eos Trans., AGU*, 72, pp. 334, 1991.
178. Pullammanappallil, S., C. J. Ammon, J. N. Louie, I. G. Wong, and R. Sullivan, Inversion of reflection times without raytracing, in *Seismological Res. Lett.*, 62, pp. 19, 1991.
179. Furlong, K., C. A. Langston, C. J. Ammon, R. H. Clouser, K. Vogfjord and G. Wagner, Seismic Rupturing in the lower crust along the San Andreas?: Lessons from Loma Prieta, *Eos Trans. AGU*, 71, pp. 288, 1990.
180. Langston, C. A., K. Furlong, C. J. Ammon, R. H. Clouser, K. Vogfjord and G. Wagner, Analysis of teleseismic body waves radiated from the Loma Prieta Event, *Eos, Trans AGU*, 71, pp. 289, 1990.
181. Mangino, S. G., G. Zandt, C. J. Ammon, The receiver structure beneath the Walker Belt, western Nevada, *Eos, Trans. AGU*, 71, pp. 1612, 1990.
182. Ammon, C. J., J. Vidale, Tomography without rays, *Eos, Trans. AGU*, 71, pp. 1445, 1990.
183. Ammon, C. J., and J. Vidale, Seismic travel-time tomography using combinatorial optimization techniques, *Seismol. Res. Letters*, 61, 39, 1990.
184. Randall, G. E., G. Zandt and C. J. Ammon, Determination of Poisson's ratio variations in the lithosphere from teleseismic P- and S-waveforms, *Seismological Res. Lett.*, 60, 12, 1989.
185. Langston, C. A., and C. J. Ammon, Scattering of Teleseismic Body Waves along the Hayward - Calaveras Fault System, *Seismol Res. Lett.*, 60, pp. 11, 1989.
186. Vidale, J., and C. J. Ammon, Efficient seismic traveltimes and amplitude calculations and application to velocity inversion and migration, *Eos, Trans. AGU*, 70, pp. 1222, 1989.
187. Ammon, C. J., and G. Zandt, The receiver structure beneath the Livermore Nevada Test Site Network Stations, *Eos, Trans. AGU*, 70, 1206, 1989.
188. Ammon, C. J., G. E. Randall and G. Zandt, The uniqueness of teleseismic P wave receiver function inversions, *Seismological Res. Lett.*, 60, pp. 11, 1989.
189. Owens, T. J., G. E. Randall, K. F. Priestly, G. Zandt, T. C. Morin, R. A. Kuehnel, W. A. Prothero, C. J. Ammon and H. M. Benz, The PASSCAL Basin and Range Passive-Source Experiment, *Eos Trans., AGU*, 69, pp. 1323, 1988.
190. Ammon, C. J., G. E. Randall and G. Zandt, Resolution and Uniqueness of Teleseismic P Wave Receiver Function Waveform Inversions, *Eos Trans., AGU*, 69, pp. 1050, 1988.
191. Ammon, C. J., The Variation of Teleseismic P wave Receiver Function Amplitude as a Function of Distance, *Seismol. Res. Lett.*, 59, 100, 1988.
192. Ammon, C. J., Crust and uppermost mantle structure beneath central Pennsylvania, *Eos Trans., AGU*, 69, pp. 405, 1988.
193. Zandt, G., T. J. Owens, C. J. Ammon, G. E. Randall and K. F. Priestly, The PASSCAL Basin and Range Passive-Source Experiment: Teleseismic waveform observations, *Eos Trans., AGU*, 69, pp. 1323, 1988.
194. Zandt, G., S. R. Taylor and C. J. Ammon, Analysis of teleseismic waveforms for structure beneath Medicine Lake Volcano, Northern California, *Seismol. Res. Lett.*, 58, pp. 34, 1987.

195. Langston, C. A., C. Ammon and G. S. Wagner, Effect of three dimensional crustal structure on teleseismic receiver functions, *The International Union of Geodesy and Geophysics, Abstract Volume*, pp. 312, 1987.
196. Ammon, C. J., J. Zucca and P. Kasameyer, Observations of anomalous arrivals recorded in the Long Valley Caldera region, CA, *Eos Trans., AGU*, 68, pp. 1475, 1987.
197. Ammon, C., and G. Zandt, Broadband teleseismic P waveform modeling and the crustal and upper mantle structure beneath Berkeley, CA, *Eos Trans., AGU*, 66, pp. 987, 1985.
198. Zandt, G., S. Park and C. Ammon, P-delays in Northern California: Evidence on the Southern Edge of the Subducting Gorda Plate, *Eos Trans., AGU*, 66, pp. 958, 1985.
199. Ammon, C., P. Wilhelm and G. Zandt, Crust and upper mantle modeling from broadband teleseismic P waveforms recorded in California, *Eos Trans., AGU*, 66, pp. 309, 1985.

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.