

CURRICULUM VITAE (FULL)

Gail L. Christeson
Senior Research Scientist
University of Texas Institute for Geophysics
JJ Pickle Research Campus, Bldg 196 (ROC)
10100 Burnet Rd (R2200)
Austin, TX 78758-4445
Voice: (512)471-0463
gail@ig.utexas.edu

Research Interests

I am interested in crustal structure of various geological environments. A continuing interest is in the structure of oceanic crust, and using seismic data to understand its formation and evolution. A key question I focus on is correlating seismic boundaries with geologic stratigraphy. Tectonic windows expose oceanic crust at fracture zones and propagating rifts, and I have carried out seismic experiments at 2 of these locations (Hess Deep and the Blanco Fracture Zone) to correlate seismic structure with geologic boundaries mapped by submersibles. Ophiolites are often studied to gain insights into oceanic crust, but are believed to be formed primarily in suprasubduction zone settings. I am currently studying the Izu-Bonin forearc, which is located in this type of tectonic setting. A new project will study evolution of slow-intermediate spreading rate crust in the South Atlantic via seismic and drilling data.

I am also interested in crustal structure at complex tectonic settings. I have participated in seismic studies investigating the structure of subducting crust near Costa Rica and Barbados, the size and morphology of the Chicxulub impact crater, the nature of the crust within Bransfield Strait, the arc-continent collision zone in the SE Caribbean, terrane accretion in SE Alaska, and the rifting history of the Gulf of Mexico. In order to characterize the structure in these various environments I collect wide-angle seismic data using a large air-gun source and ocean bottom seismograph receivers; this is often done in conjunction with the acquisition of multi-channel seismic reflection profiles. I then use various techniques, including 2D and 3D tomography and full waveform tomographic inversion to constrain crustal structure.

Education

B.S. Geophysics, Texas A&M University, 1988
Ph.D. Geophysics, Massachusetts Institute of Technology/Woods Hole Oceanographic Institution, 1994. Thesis title: Shallow Crustal Structure of the East Pacific Rise Near 9°30'N. Thesis advisor: G.M. Purdy.

Positions Held

Senior Research Scientist, University of Texas Institute for Geophysics (9/10-present)
Lecturer, Department of Geosciences, University of Texas (2008 – present)
Research Scientist, University of Texas Institute for Geophysics (9/01-8/10)
Research Associate, University of Texas Institute for Geophysics (9/95-8/01)
Post-doctoral Fellow, University of Texas Institute for Geophysics (1/94 - 8/95)

Field Experience

- 2014 *Drillship JOIDES Resolution*, IODP Expedition 352, Izu-Bonin-Mariana Forearc
- 2013 *CGC Sycamore*, OBS Recovery, Craig Alaska Earthquake Rapid Response
- 2010 *R/V Iron Cat*, Gulf of Mexico Basin Opening (co-chief scientist)
- 2008 *R/V Marcus Langseth*, STEEP Seismic Acquisition (co-chief scientist)
- 2005 Yucatan Peninsula - assisted in deployment of seismometers in support of the Chicxulub seismic experiment.
- 2004 *R/V Maurice Ewing*, Seismic Study at Blanco Transform (chief scientist)
- 2004 *R/V Seward Johnson II*, SE Caribbean OBS Program (chief scientist)
- 2004 Yucatan Peninsula - assisted in deployment and recovery of seismometers in support of the Chicxulub seismic experiment.
- 2003 *R/V Maurice Ewing*, Seismic Study at Hess Deep (chief scientist)
- 2000 *R/V Nathaniel B. Palmer*, Bransfield Strait OBS Experiment
- 1999 *R/V Atlantis*, Geological Investigation of Upper Oceanic Crust at Hess Deep Using AMS-120, Argo, and Alvin
- 1998 *R/V Maurice Ewing*, Coincident MCS/OBS Seismic Reflection/Refraction Study of Lesser Antilles Subduction Zone Backstop and Accretionary Complex
- 1995 *R/V Maurice Ewing*, TICOSECT: Seismic Experiments to Study Subduction of the Cocos Plate beneath Costa Rica
- 1991 *R/V Atlantis II*, On-bottom Refraction Experiments on the East Pacific Rise Near Latitude 9°30'N
- 1989 *CSS John P. Tully*, Seismic Experiments on the Northern Symmetric and Endeavor Segments of the Juan de Fuca Ridge
- 1988 *R/V Robert D. Conrad*, Sea Beam Survey of the Mid-Atlantic Ridge: Kane to Atlantis Fracture Zones I
- 1988 *R/V Robert D. Conrad*, SeaMARC II Imaging of the Kane Fracture Zone

Service – Scientific Community

- Journal of Geophysical Research – Solid Earth, Associate Editor, Jan 2009 - present
- Workshop Organizing Committee: IRIS Active Source Data Management Workshop, Jan 26-27, 2014.
- Workshop Co-convenor: Multidisciplinary Transect Drilling During Transits, Nov 11-13, 2013.
- U.S. Advisory Committee for Scientific Ocean Drilling (USAC), Oct 2011 – Sep 2014
- Breakout Leader: Workshop on Building U.S. Strategies for 2013-2023 Scientific Ocean Drilling, April 30 - May 2, 2012
- Ocean Bottom Seismometer Instrument Pool (OBSIP) Oversight Committee, May 2006 - May 2012
- Workshop Breakout Leader: Challenges and Opportunities in Academic Marine Seismology, Breakout Group 'Models of proposal preparation/nurturing/evaluation', March 22-24, 2010
- Workshop Working Group Chair: INVEST (New Ventures in Exploring Scientific Targets), Working Group 'Site Characterization and Integration With the Borehole', Bremen, Germany, September 23-25, 2009
- Workshop Co-convenor and Host: Scientific Ocean Drilling of Mid-Ocean Ridge and Ridge-Flank Settings, Austin, Texas, August 27-28, 2009
- IRIS Internship Selection Committee, 2009 - 2010

NSF Marine Geosciences Section (MGG and ODP) proposal review panel, May 2003, Fall 2004, May 2005, Nov 2008
IODP Science Steering and Evaluation Panel (SSEP), May 2006 – August 2008
Workshop Co-convenor: IODP/ICDP Scientific Drilling of the Chicxulub Impact Crater Workshop, Potsdam, Germany, September 11-12, 2006.
NSF/JOI panel: OOI (Ocean Observatories Initiative)/ORION Request for Assistance (RFA), September 2005
JOIDES Site Survey Panel, April 1997 - February 2000
Manuscript reviewer for Earth and Planetary Science Letters, EOS, Geological Society of London, Geology, G-cubed, Geophysical Journal International, Geophysical Research Letters, Journal of the Acoustical Society of America, Journal of Geophysical Research, Marine Geology, Nature, Ocean Drilling Program, and Science
Proposal reviewer for National Science Foundation, National Undersea Research Program, NERC, Schmidt Foundation

Service – University of Texas and Austin Area

UTIG Strategic Planning Committee, 2015
UT Jackson School Associate Dean for Research Search Committee, 2014-2015
UTIG Research Associate Search Committee, 2013
UTIG Annual Performance Evaluation Committee, 2012, 2013
UTIG Seminar Committee, September 1995 – August 1999, September 2001 - August 2004, September 2008 – June 2013
UTIG Fellowship Committee, September 2005 – August 2007; September 2008 – February 2013 (chair)
UT Jackson School Alumni Council, 2009 - 2010
UT Jackson School Dean Search Committee, November 2008 – May 2009
UT Jackson School Endowment Committee, September 2005 – August 2009
UT Jackson School Opportunity Hire Search Committee (chair), 2007 - 2008
UT Jackson School Dean Search Committee, October 2005 - April 2006
UTIG Search Committees, May 2001 – October 2001; August 2005 – January 2007
UTIG PRC Building Committee, September 2001 – July 2004
UTIG Computer Graphics Committee, September 1995 – August 2003
UTIG Seismic Processing Committee, September 2000 – 2003
Participant in Austin Earth Science Week Career Fair 2000 and 2002
Gave outreach presentations on various topics to the Department of Geological Sciences outreach program, Lakeway Men's Breakfast Club, Learning Activities for Mature People (LAMP) group, Galindo Elementary School 5th grade class, Cedar Creek Elementary School 5th grade class, Davis Elementary 4th graders, 2nd graders, Kirby Hall 4th graders.

Student Involvement:

Co-instructor, Marine Tectonics, Spring Semester, 2006-present.
Co-Instructor, Topics in Marine Geology and Geophysics Seminar, Fall Semester, 2009.
Maureen LeVoir, PhD, UT, current (committee member).
Drew Eddy, PhD, UT, Summer 2014 (committee member).
Mark Duncan, Masters Degree, UT, Spring 2013 (supervisor).
Robert Reece, PhD, UT, Fall 2012 (committee member).

Yi Tao, PhD, UT, Fall 2012 (committee member).
 Marvin Scott, undergraduate research, summer 2010.
 Margaret Kroehler, Masters Degree, UT, Fall 2007 (co-supervisor).
 Matthew McDonald, Masters Degree, UT, Fall 2006 (committee member).
 Trevor Aitken, Masters Degree, UT, Spring 2005 (co-supervisor).
 David Gorney, Masters Degree, UT, Spring 2005 (committee member).
 Margaret Kroehler, IRIS undergraduate intern, summer 2004.
 Daniel Brothers, IRIS undergraduate intern, summer 2003.
 Thesis examiner for Alexander Kritsky, University of Sydney, October 2000
 Recruited and supervised undergraduate and graduate watchstanders/assistants from UT and elsewhere for several scientific cruises and one land-based field program:

- Drew Eddy, graduate student, UT, GUMBO cruise, Fall 2010
- Adam Barker, graduate student, U. Washington, STEEP seismic cruise, Fall 2008
- Seth Campbell, graduate student, U Maine, STEEP seismic cruise, Fall 2008
- Ryan Elmore, graduate student, UT, STEEP seismic cruise, Fall 2008
- Ben Hooks, graduate student, U Maine, STEEP seismic cruise, Fall 2008
- Bobby Reece, graduate student, UT, STEEP seismic cruise, Fall 2008
- Lindsay Worthington, graduate student, UT, STEEP seismic cruise, Fall 2008
- Margaret Kroehler, undergraduate student, William & Mary, Chicxulub land program, winter 2005
- David Gorney, graduate student, UT, Chicxulub land program, winter 2005
- Eric Lyons, graduate student, UT, Chicxulub land program, winter 2005
- Janet Baran, graduate student, LDEO, Blanco seismic cruise, Oct 2004
- John Hillier, graduate student, Oxford, Blanco seismic cruise, Oct 2004
- Garrett Kramer, graduate student, New Mexico Tech, Blanco seismic cruise, Oct 2004
- Meagan Pollock, graduate student, Duke, Blanco seismic cruise, Oct 2004
- Gillian Rosen, graduate student, Univ. FL, Blanco seismic cruise, Oct 2004
- Ting Yang, graduate student, URI, Blanco seismic cruise, Oct 2004
- Jillian Hinds, graduate student, Univ. FL, SE Caribbean OBS cruise, Spring 2004
- Shawna McLallen, undergraduate student, Rice, SE Caribbean OBS cruise, Spring 2004
- Marc Rierola, undergraduate student, ETH Switzerland, SE Caribbean OBS cruise, Spring 2004
- Alejandro Escalona, graduate student, Univ. TX, Hess Deep cruise, July 2003
- Daniel Brothers, undergraduate student, Univ Colorado, Hess Deep cruise, July 2003
- Astrid Makowitz, graduate student, Univ. TX, Hess Deep cruise, July 2003
- Armando Sena, graduate student, Univ. TX, Hess Deep cruise, July 2003
- David Gorney, graduate student, Univ. TX, Hess Deep cruise, July 2003

Invited Presentations

March, 2011: Future Scientific Ocean Drilling: A Workshop for Early Career Scientists, 'Site Surveys for IODP Expeditions'
 February, 2011: Texas A&M University, 'Chicxulub Crater: What an Impact!'
 February, 2011: University of South Dakota, 'Chicxulub Crater: What an Impact!'
 January, 2011: University of Wyoming, 'Chicxulub Crater: What an Impact!'
 January, 2011: University of Oklahoma, 'Chicxulub Crater: What an Impact!'
 January, 2011: University of Wisconsin, 'Chicxulub Crater: What an Impact!'

October, 2010: University of Missouri, Kansas City, 'Chicxulub Crater: What an Impact!'
October, 2010: Tulsa University, 'Chicxulub Crater: What an Impact!'
October, 2010: Kent State University, 'Chicxulub Crater: What an Impact!'
September, 2010: Purdue University, 'Chicxulub Crater: What an Impact!'
January, 2006: Lamont-Doherty Earth Observatory, 'Correlation of Seismic and Geologic Boundaries in Upper Oceanic Crust'
April, 2005: Duke University, 'Comparison of Geologic and Seismic Structure of Intermediate and Fast-Spreading Crust'
October, 2002: Duke University, 'Structure of the Chicxulub Impact Crater'
October, 2002: Duke University, 'Seismic Structure of Oceanic Crust'
April, 2002: California Institute of Technology, 'Deep Crustal Structure of Bransfield Strait'
October, 1999: Georgia Tech, 'Structure of the Chicxulub Impact Crater'
July, 1999: Woods Hole Oceanographic Institution, 'Structure of the Chicxulub Impact Crater'
February, 1995: Texas A&M University, 'Shallow structure of the East Pacific Rise: Ridge volcanism and the formation of layer 2A'
March, 1993: University of Texas, Austin, 'Seismic constraints on the shallow structure of the East Pacific Rise'

Honors/Awards

Consortium for Ocean Leadership 2010/2011 Distinguished Lecturer
Invited by journal Nature to write Journal Club column, June 11, 2009 issue
2005-2006 JSG Research Fellowship

Meetings Attended

American Geophysical Union, Fall Meeting, December 1989-1995, 1997-2009, 2011-2014
Increasing the Access to and the Relevance of Marine Seismic Data Workshop, December 2014
IRIS Active Source Data Management Workshop, January 2014
Workshop on Multidisciplinary Transect Drilling During Transits, November 2013
Ocean Bottom Seismometer Workshop, October 2013
European Geophysical Union, Annual Meeting, April 2013
Workshop on Building U.S. Strategies for 2013-2023 Scientific Ocean Drilling, April 30 - May 2, 2012
GeoPRISMS - EarthScope Planning Workshop for the Alaska Primary Site, September 2011
Opportunities for EarthScope Science in Alaska in Anticipation of USArray, May 2011
Experiments with Portable Ocean Bottom Seismographs Workshop, September 2010
Challenges and Opportunities in Academic Marine Seismology, March 2010
IODP New Ventures in Exploring Scientific Targets (INVEST), September 2009.
Scientific Ocean Drilling of Mid-Ocean Ridge and Ridge-Flank Settings (co-convenor), August 2009
Melting, Magma, Fluids and Life, July 2009
Geological Society of America, Annual Meeting, October 2006; 2009
Ocean Bottom Seismometer Instrument Pool (OBSIP) Management Committee Meetings, 2006 - present
IODP Science Steering and Evaluation Panel (SSEP) Meetings, May 2006 – May 2008
IODP/ICDP Scientific Drilling of the Chicxulub Impact Crater Workshop (co-convenor), September 2006.

First International Conference on Impact Cratering in the Solar System, May 2006
 3D Seismic Reflection Imaging Workshop, September, 2005
 Ocean Mantle Dynamics Workshop, September 2002.
 Antarctic Marine Geology and Geophysics Research Vessel Planning Workshop, March, 2002.
 MARGINS workshop on Central American subduction processes, July 2001
 32nd Annual Lunar and Planetary Science Conference, March 2001
 63rd Annual Meteoritical Society Meeting, August, 2000
 Non-Volcanic Rifting of Continental Margins: A Comparison of Evidence from Land and Sea,
 September, 1999
 JOIDES Site Survey Panel, attended winter and summer meetings from April 1997 – July 1999
 Conference on Multiple Platform Exploration (COMPLEX), May, 1999
 Liason from Site Survey Panel to JOIDES Science Steering and Evaluation Panels (SSEPs), May,
 1999
 Symposium: Fifty Years of Ocean Discovery - National Science Foundation, 1950-2000, October,
 1998
 Sudbury Conference on Large Meteorite Impacts and Planetary Evolution, September, 1997
 Liason from Site Survey Panel to Long-term Seafloor Observatory Program Planning Group, July,
 1997
 OBS (ocean bottom seismograph) workshop sponsored by NSF, July, 1997
 SEIZE (seismogenic zone) workshop sponsored by NSF, June, 1997
 Society of Exploration Geophysics International Exposition and Annual Meeting, October, 1995
 RIDGE Theoretical Institute, "Faulting and Magmatism at Mid-Ocean Ridges", June, 1995
 American Geophysical Union, Spring Meeting, May 1990-1992

Professional Societies

American Geophysical Union, 1986 – present
 Society of Exploration Geophysics, 1986 - 1993

Funding History

Grant Number	Title	PI(s)	Start Date	End Date	Award
OCE-1537108	Collaborative Research: Evolution of South Atlantic Oceanic Crust: A Seismic Transect	Christeson	August, 2015	July, 2018	\$389,405
T352A59, Post Expedition Activity	IBM Forearc Logging Data: Comparison With Oceanic Crust	Christeson	May, 2015	January, 2016	\$15,000
T352A59	Salary Support for IODP Izu-Bonin Mariana Forearc Expedition 352	Christeson	July, 2014	January, 2015	\$54,886

GG002806	Marine Geoscience Data System support for seismic derived products and for field data from non-traditional facilities	Christeson	November, 2013	October, 2015	\$139,897
OCE-1348454	Collaborative Research: A Community Seismic Experiment Targeting the Pre-, Syn-, and Post-rift Evolution of the Mid Atlantic US Margin	Van Avendonk, Christeson	August, 2013	July, 2016	\$159,403
G11AC20096	Multichannel Seismic Survey of Abyssal Gulf of Alaska in Support of US Extended Continental Shelf Assessment	Gulick, Christeson	April, 2011	April, 2013	\$198,986
Industry Funded	Seismic Refraction Study of the Northern Gulf of Mexico	Norton, van Avendonk, Stoffa, Christeson	Mar, 2010	Mar, 2013	\$3,267,636
EAR-1009986	Collaborative Research: St. Elias Tectonics and Erosion Project (STEEP)	Gulick, Christeson, Horton, van Avendonk	01 Oct, 2010	30 Sep, 2013	\$325,940
COL subaward SA9-03	Workshop: Scientific Ocean Drilling of Active Mid-Ocean Ridge and Ridge-Flank Settings	Hayman, Christeson	01 Apr, 2009	01 Apr, 2010	\$17,790
OCE-0853523	SGER: Seismic Waveform Inversion Study of the Layer 2A/2B Boundary in Young Oceanic Crust	Christeson	01 Jan, 2009	30 June, 2010	\$50,424
EAR-0607529	Collaborative Research: Crust-Mantle Interactions at an Oblique Arc-Continent Collision Zone: The SE Caribbean Plate Boundary	Christeson, Mann	01 Aug, 2006	31 July, 2010	\$182,471
JOI subaward JSA6-02	Workshop: Planning joint IODP/ICDP drilling of the Chicxulub impact crater	Christeson, Gulick	01 Nov, 2005	31 Oct, 2006	\$4,500
EAR-0408584	Collaborative Research: St. Elias Tectonics and Erosion Project (STEEP)	Gulick, Christeson, Mann, van Avendonk	01 Aug, 2004	31 July, 2009	\$769,119

IRIS subaward 367	IRIS summer internship 2004	Christeson	01 June, 2003	31 Aug, 2003	\$5,600
IRIS subaward 355	IRIS summer internship 2003	Christeson	01 June, 2003	31 Aug, 2003	\$5,800
OCE-0221101	Collaborative Research: Imaging and Modeling Impact Generated Deformation at the Chicxulub Crater, Joint US/UK/Mexico Investigation and IODP Site Survey	Gulick, Christeson	01 Jan, 2003	31 Dec, 2005 (no-cost extension to Dec 31, 2007)	\$523,145
GEO-0224501	Cataclysms and Catastrophes – The Role of Science in Natural and Human-Induced Disasters	Ellins, Gutierrez, Gulick, Christeson	01 Oct, 2002	30 Sep, 2004	\$105,633
OCE-0137286	Correlation of Seismic Structure with Observed Outcrop Geology: MCS/OBS Investigation of Hess Deep and Blanco Transform	Christeson, McIntosh, Nakamura	01 Aug 2002	31 July 2005 (no-cost extension to July 31, 2007)	\$637,914
EAR-0003588	Collaborative Research: Crust-mantle interactions during continental growth and high-pressure rock exhumation at an oblique arc-continent collision zone: SE Caribbean margin	Mann, Christeson	01 Aug 2001	31 July 2005 (no-cost extension to July 31, 2007)	\$448,552
OPP-9814041	The Young Marginal Basin as a Key to Understanding the Rift-Drift Transition and Andean Orogenesis: OBS Refraction Profiling for Crustal Structure in Bransfield Strait, West Antarctica	Austin, Dalziel, Nakamura, and Christeson	01 Jul 1999	30 June 2002	\$668,854
OCE-9818868	Structure Across Center of Chicxulub Impact Crater	Christeson	01 Mar 1999	28 Feb 2001	\$94,091
OCE-9617751	Structure, Tectonics and Sediment Flow into the Lesser Antilles Subduction Zone	Bangs, Shipley, Christeson, and Nakamura	16 Jan 1998	15 Jan 2001	\$854,416
OCE-9415716	Structure of the Chicxulub KT Impact Crater, Yucatan, Gulf of Mexico	Buffler, Nakamura, Christeson	01 Apr 1996	31 Mar 1999	\$353,000
Total =					\$9,412,359

- Christeson, G. L.**, and G. A. Barth (2015), Aleutian basin oceanic crust, *Earth Planet. Sci. Lett.*, 426, 167-175, doi: 10.1016/j.epsl.2015.06.040.
- Van Avendonk, H.J.A., **G.L. Christeson**, I.O. Norton, and D.R. Eddy (2015), Continental rifting and sediment infill in the northwestern Gulf of Mexico, *Geology*, 43, 631-634, doi: 10.1130/g36798.1.
- Eddy, D. R., H. J. A. Van Avendonk, **G. L. Christeson**, I. O. Norton, G. D. Karner, C. A. Johnson, and J.W. Snedden (2014), Deep crustal structure of the northeastern Gulf of Mexico: Implications for rift evolution and seafloor spreading, *J. Geophys. Res.*, 119, 6802-6822, doi: 10.1002/2014JB011311.
- Christeson, G. L.**, H. J. A. Van Avendonk, I. O. Norton, J. W. Snedden, D. R. Eddy, G. D. Karner, and C. A. Johnson (2014), Deep crustal structure in the eastern Gulf of Mexico, *J. Geophys. Res.*, 119, 6782-6801, doi: 10.1002/2014JB011045.
- Walton, M.A.L., S.P.S. Gulick, R.S. Reece, G.A. Barth, **G.L. Christeson**, and H.J. Van Avendonk (2014), Dynamic response to strike-slip tectonic control on the deposition and evolution of the Baranof Fan, Gulf of Alaska, *Geosphere*, 10, 680-691, doi: 10.1130/ges01034.1.
- Christeson, G.L.**, H. J. A. Van Avendonk, S. P. S. Gulick, R. S. Reece, G. L. Pavlis, and T. L. Pavlis (2013), Moho interface beneath Yakutat terrane, southern Alaska, *J. Geophys. Res.*, 118, 5084-5097, doi: 10.1002/jgrb.50361.
- Van Avendonk, H. J. A., S. P. S. Gulick, **G.L. Christeson**, L. L. Worthington, T. L. Pavlis, and K. D. Ridgway (2013), Subduction and accretion of sediments in front of the St. Elias orogen, Gulf of Alaska, *Earth Planet. Sci. Lett.*, 381, 116-126, doi: 10.1016/j.epsl.2013.08.049.
- Reece, R.S., S.P.S. Gulick, **G.L. Christeson**, B.K. Horton, H. van Avendonk, and G. Barth (2013), The role of farfield tectonic stress in oceanic intraplate deformation, Gulf of Alaska, *J. Geophys. Res.*, 1862-1872, doi: 10.1002/jgrb.50177.
- Gulick, S.P.S., **G.L. Christeson**, P.J. Barton, R.A.F. Grieve, J.V. Morgan, and J. Urrutia-Fucugauchi (2013), Geophysical characterization of the Chicxulub impact crater, *Reviews of Geophysics*, 51, doi: 10.1002/rog.200007.
- Gulick, S.P.S., R.S. Reece, **G.L. Christeson**, H. van Avendonk, L.L. Worthington, and T.L. Pavlis (2013), Transition fault and the unstable Yakutat-Pacific-North American triple junction, *Geology*, 41, 571-574, doi: 10.1130/G33900.1.
- Christeson, G.L.**, J.V. Morgan, and M.R. Warner (2012), Shallow oceanic crust: Full waveform tomographic images of the seismic layer 2A/2B boundary, *J. Geophys. Res.*, 117, B05101, doi: 10.1029/2011JB008972.
- Worthington, L.L., H.J.A. van Avendonk, S.P.S. Gulick, **G.L. Christeson**, and T.L. Pavlis (2012), Crustal structure of the Yakutat terrane: New constraints for understanding the evolution of subduction and collision in southern Alaska, *J. Geophys. Res.*, 117, B01102, 10.1029/2011JB008493.
- Kroehler, M. E., P. Mann, A. Escalona, and **G.L. Christeson** (2011), Late Cretaceous-Miocene diachronous onset of backthrusting along the South Caribbean deformed belt and its importance for understanding processes of arc collision and crustal growth, *Tectonics*, 30, TC6003, doi: 10.1029/2011TC002918.
- Reece, R.S., S.P.S. Gulick, B.K. Horton, **G.L. Christeson**, and L. L. Worthington (2011), Tectonic and climate influence on the evolution of the Surveyor Fan and Channel system, Gulf of Alaska, *Geosphere*, 7, 830-844, DOI: 10.1130/GES00654.1.
- Morgan, J.V., M.R. Warner, R.A.F. Grieve, **G.L. Christeson**, S.P.S. Gulick, and P.J. Barton (2011), Full waveform tomographic images of the peak ring at the Chicxulub impact crater and implications for future drilling, *J. Geophys. Res.*, 116, B06303, doi:10.1029/2010JB008015.

- Aitken, T., P. Mann, A. Escalona, and **G.L. Christeson** (2011), Evolution of the Grenada and Tobago basins and implications for arc migration, *Mar. Petrol. Geol.*, 28, 235-258, doi: 10.1016/j.marpetgeo.2009.10.003.
- Barton, P.J., R.A.F. Grieve, J.V. Morgan, A.T. Surendra, P.M. Vermeesch, **G.L. Christeson**, S.P.S. Gulick, and M.R. Warner (2010), Seismic images of Chicxulub impact melt sheet and comparison with the Sudbury structure, in *Large Meteorite Impacts and Planetary Evolution IV*, edited by R. L. Gibson and W. U. Reimold, pp. 103-113, doi: 10.1130/2010.2465(07).
- Christeson, G.L.**, S.P.S. Gulick, H.J.A. van Avendonk, L.L. Worthington, R.S. Reece, and T.L. Pavlis (2010), The Yakutat terrane: Dramatic change in crustal thickness across the Transition fault, Alaska, *Geology*, 38, 895-898, doi: 10.1130/G31170.1.
- Hayman, N.W., W. Bach, D. Blackman, **G.L. Christeson**, K. Edwards, R. Haymon, B. Ildefonse, M. Schulte, D. Teagle, and S. White (2010), Future scientific drilling of oceanic crust, *Eos Trans. AGU*, 91, 133-134.
- Christeson, G.L.**, J.A. Karson, and K.D. McIntosh (2010), Mapping of seismic layer 2A/2B boundary above the sheeted dike unit at intermediate-spreading crust exposed near the Blanco Transform, *Geochem. Geophys. Geosyst.*, 11, Q03015, doi: 10.1029/2009GC002864.
- Schulte, P., L. Alegret, I. Arenillas, J. Antonio Arz, P.J. Barton, P.R. Bown, T.J. Bralower, **G.L. Christeson**, P. Claeys, C.S. Cockell, G.S. Collins, A. Deutsch, T.J. Goldin, K. Goto, J.M. Grajales-Nishimura, R.A.F. Grieve, S.P.S. Gulick, K.R. Johnson, W. Kiessling, C. Koeberl, D.A. Kring, K.G. MacLeod, T. Matsui, J. Melosh, A. Montanari, J.V. Morgan, C.R. Neal, D.J. Nichols, R.D. Norris, E. Pierazzo, G. Ravizza, M. Rebolledo-Vieyra, W.U. Reimold, E. Robin, T. Salge, R.P. Speijer, A.R. Sweet, J. Urrutia-Fucugauchi, V. Vajda, M.T. Whalen, and P.S. Willumsen (2010), The Chicxulub asteroid impact and mass extinction at the Cretaceous-Paleogene boundary, *Science*, 327, 1214-1218, doi: 10.1126/science.1177265.
- Christeson, G.L.**, G.S. Collins, J.V. Morgan, S.P.S. Gulick, P.J. Barton, M.R. Warner (2009), Mantle deformation beneath the Chicxulub impact crater, *Earth Planet. Sci. Lett.*, 284, 249-257, doi:10.1016/j.epsl.2009.04.033.
- Vermeesch, P.M., J.V. Morgan, **G.L. Christeson**, P. Barton, and A. Surendra (2009), Three-dimensional joint inversion of traveltimes and gravity data across the Chicxulub impact crater, *J. Geophys. Res.*, 114, B02105, doi:10.1029/2008JB005776.
- Christeson, G.L.**, P. Mann, A. Escalona, and T.J. Aitken (2008), Crustal structure of the Caribbean-northeastern South America arc-continent collision zone, *J. Geophys. Res.*, 113, B08104, doi: 10.1029/2007JB005373.
- Collins, G.S., J. Morgan, P. Barton, **G. Christeson**, S. Gulick, J. Urrutia, M. Warner, and K. Wünnemann (2008), Dynamic modeling suggests terrace zone asymmetry in the Chicxulub crater is caused by target heterogeneity, *Earth Planet. Sci. Lett.*, 270, 221-230.
- Gulick, S.P.S., P.J. Barton, **G.L. Christeson**, M. McDonald, K. Mendoza-Cervantes, J.V. Morgan, Z.F. Pearson, A. Surendra, J. Urrutia-Fucugauchi, P.M. Vermeesch, and M.R. Warner (2008), Implications of structural asymmetries in the Chicxulub impact crater, *Nature Geosci.*, 1, 131-135.
- Gorney, D., P. Mann, A. Escalona, B. Magnani, and **BOLIVAR Study Group** (2007), Chronology of Cenozoic tectonic events in western Venezuela and the Leeward Antilles based on integration of offshore seismic reflection data and onland geology, *AAPG Bulletin*, 91, 653-684.
- Clark, S. A., D. S. Sawyer, J. A. Austin, Jr., **G. L. Christeson**, and Y. Nakamura (2007), Characterizing the Galicia Bank-Southern Iberia Abyssal Plain rifted margin segment boundary using MCS and OBS data, *J. Geophys. Res.*, 112, B03408, doi: 10.1029/2006JB004581.
- Christeson, G.L.**, K.D. McIntosh, and J.A. Karson (2007), Inconsistent correlation of seismic layer 2A and lava layer thickness in oceanic crust, *Nature*, 445, 418-421.
- Levander, A., M. Schmitz, H. Ave Lallemand, C.A. Zelt, D.S. Sawyer, M.B. Magnani, P. Mann, **G.L. Christeson**, J.E. Wright, G.L. Pavlis, and J. Pindell (2006), Evolution of the southern Caribbean Plate boundary, *Eos Trans. AGU*, 87, 97-100.

- Morgan, J., M. Warner, J. Urrutia-Fucugauchi, S. Gulick, **G. Christeson**, P. Barton, M. Rebolledo-Vieyra, and J. Melosh (2005), Chicxulub Crater seismic survey prepares way for future drilling, *Eos Trans. AGU*, 86, 325-328.
- Christeson, G.L.**, D.H.N. Barker, J.A. Austin, Jr., and I.W.D. Dalziel (2003), Deep crustal structure of Bransfield Strait: Initiation of a backarc basin by rift reactivation and propagation, *J. Geophys. Res.*, 108, 2492, doi:10.1029/2003JB002468.
- Christeson, G.L.**, N.L. Bangs, and T.H. Shipley (2003), Deep structure of an island arc backstop, Lesser Antilles subduction zone, *J. Geophys. Res.*, 108, 2327, doi:10.1029/2002JB002243.
- Bangs, N.L., **G.L. Christeson**, and T.H. Shipley (2003), Structure of the Lesser Antilles subduction zone backstop and its role in a large accretionary system, *J. Geophys. Res.*, 108, 2358, doi:10.1029/2002JB002040.
- Barker, D.H.N., **G.L. Christeson**, and J.A. Austin Jr. (2003), Backarc basin evolution and cordilleran orogenesis: Insights from new ocean-bottom seismograph refraction profiling in Bransfield Strait, Antarctica, *Geology*, 31, 107-110.
- Karson, J.A. and **G.L. Christeson** (2003), Comparison of geologic and seismic structure of uppermost fast-spread oceanic crust: Insights from a crustal cross section at the Hess Deep Rift, in *Heterogeneity in the Crust and Upper Mantle: Nature, Scaling and Seismic Properties*, edited by J. Goff and K. Holliger, Kluwer Academic, New York, 99-129.
- Morgan, J.V., **G.L. Christeson**, and C.A. Zelt (2002), 3D velocity tomogram across the Chicxulub crater: Testing the resolution, *Tectonophysics*, 355, 215-226.
- Karson, J.A., E. M. Klein, S. D. Hurst, C. E. Lee, P. A. Rivizzigno, D. Curewitz, A. R. Morris, D. J. Miller, R. G. Varga, **G. L. Christeson**, B. Cushman, J. M. O'Neill, J. G. Brophy, K. M. Gillis, M. A. Stewart, and A. L. Sutton (2002), Structure of uppermost fast-spread oceanic crust exposed at the Hess Deep Rift: Implications for subaxial processes at the East Pacific Rise, *Geochem. Geophys. Geosyst.*, 3, 1002, doi:10.1029/2001GC000155.
- Christeson, G.L.**, Y. Nakamura, R.T. Buffler, J. Morgan, and M. Warner (2001), Deep Crustal Structure of the Chicxulub Impact Crater, *J. Geophys. Res.*, 106, 21751-21769.
- (Note – this manuscript generated a News and Views article in Nature: Melosh, J. (2001), Deep down at Chicxulub, *Nature*, 414, 861-862.)
- McIntosh, K., F. Akbar, C. Calderon, P. Stoffa, S. Operto, **G. Christeson**, Y. Nakamura, T. Shipley, E. Flueh, A. Stavenhagen, and G. Leandro (2000), Large aperture seismic imaging at a convergent margin: Techniques and results from the Costa Rica seismogenic zone, *Mar. Geophys. Res.*, 21, 451-474.
- Christeson, G.L.**, K.D. McIntosh, and T.H. Shipley (2000), Seismic attenuation in the Costa Rica margin wedge: Amplitude modeling of ocean bottom hydrophone data, *Earth Planet. Sci. Lett.*, 179, 391-405.
- Morgan, J.V., M.R. Warner, G.S. Collins, H.J. Melosh, and **G.L. Christeson** (2000), Peak ring formation in large impact craters: Geophysical constraints from Chicxulub, *Earth Planet. Sci. Lett.*, 183, 347-354.
- Christeson, G.L.**, K.D. McIntosh, T.H. Shipley, E.R. Flueh, and H. Goedde (1999), Structure of the Costa Rica convergent margin, offshore Nicoya Peninsula, *J. Geophys. Res.*, 104, 25443-25468.
- Christeson, G.L.**, R.T. Buffler, and Y. Nakamura (1999), Upper crustal structure of the Chicxulub impact crater from wide-angle ocean bottom seismograph data, in Dressler, B.O., and V.L. Sharpton, eds., Large Meteorite Impacts and Planetary Evolution II: Boulder, Colorado, Geological Society of America Special Paper 339, 291-298.
- Snyder, D.B., R.W. Hobbs, and the **Chicxulub Working Group** (1999), Ringed structural zones with deep roots formed by the Chicxulub impact, *J. Geophys. Res.*, 104, 10743-10755.
- Christeson, G.L.**, P.R. Shaw, and J.D. Garmany (1997), Shear and compressional wave structure of the East Pacific Rise, 9°-10°N, *J. Geophys. Res.*, 102, 7821-7835.
- Morgan, J., M. Warner, and the **Chicxulub Working Group** (1997), Size and morphology of the Chicxulub impact crater, *Nature*, 390, 472-476.

- Christeson, G.L.**, G.M. Kent, G.M. Purdy, and R.S. Detrick (1996), Extrusive thickness variability at the East Pacific Rise: Constraints from seismic techniques, *J. Geophys. Res.*, *101*, 2859-2873.
- Christeson, G.L.**, Y. Nakamura, K.D. McIntosh, and P.L. Stoffa (1996), Effect of shot interval on ocean bottom seismograph and hydrophone data, *Geophys. Res. Lett.*, *23*, 3783-3786.
- Christeson, G.L.**, G.M. Purdy, and G.J. Fryer (1994), Seismic constraints on shallow crustal emplacement processes at the fast-spreading East Pacific Rise, *J. Geophys. Res.*, *99*, 17957-17973.
- Christeson, G.L.**, W.S.D. Wilcock, and G.M. Purdy (1994), The shallow attenuation structure of the fast-spreading East Pacific Rise near 9°30'N, *Geophys. Res. Lett.*, *21*, 321-324.
- Christeson, G.L.**, G.M. Purdy, and K.M.M. Rohr (1993), Structure of the Northern Symmetrical Segment of the Juan de Fuca Ridge, *Mar. Geophys. Res.*, *15*, 219-240.
- Christeson, G.L.**, and M.K. McNutt (1992), Geophysical constraints on the shear stress along the Marquesas Fracture Zone, *J. Geophys. Res.*, *97*, 4425-4437.
- Christeson, G.L.**, G.M. Purdy, and G.J. Fryer (1992), Structure of young upper crust at the East Pacific Rise near 9°30'N, *Geophys. Res. Lett.*, *19*, 1045-1048.
- Purdy, G.M., L.S.L. Kong, **G.L. Christeson**, and S.C. Solomon (1992), Relationship between spreading rate and the seismic structure of mid-ocean ridges, *Nature*, *355*, 815-817.

Non-Journal Publications

- Expedition 352 Scientists** (2014), Izu-Bonin-Mariana fore arc: testing subduction initiation and ophiolite models by drilling the outer Izu-Bonin-Mariana fore arc, *International Ocean Discovery Program Preliminary Report*, 352, doi: 10.14379/iodp.pr.352.2014.
- Christeson, G.L.** (1995), OBSTOOL: Software for processing UTIG OBS data, *Technical Report No. 134*, University of Texas Institute for Geophysics, Austin, TX.
- Christeson, G.L.** (1994), Seismic constraints on shallow crustal processes at the East Pacific Rise, Ph.D. Thesis, MIT/WHOI Joint Program in Oceanography/Applied Ocean Science and Engineering, WHOI-94-02.

Meeting Abstracts

- Robertson, A., A. Avery, C. Carvallo, **G. Christeson**, E. Ferré, W. Kurz, S. Kutterolf, S. Morgan, J. Pearce, M. Reagan, W. Sager, J. Shervais, and S. Whattam (2015), Origin of ophiolite complexes related to intra-oceanic subduction initiation: Implications of IODP Expedition 352 (Izu-Bonin fore arc), Abstract EGU2015-2040 presented at 2015 General Assembly, European Geosciences Union.
- Kurz, W. E. Ferré, W. Kurz, A. Robertson, A. Avery, **G.L. Christeson**, S. Morgan, S. Kutterolf, W. Sager, C. Carvallo, J. Shervais, and IODP Party (2015), Post-magmatic tectonic deformation of the outer Izu-Bonin-Mariana forearc system: Initial results of IODP Expedition 352, Abstract EGU2015-2350 presented at 2015 General Assembly, European Geosciences Union.
- Christeson, G.L.** and IODP Expedition 352 Shipboard Science Party (2014), Physical properties of IBM forearc crust: Comparison with oceanic crust, Abstract V53C-4879 presented at 2014 Fall Meeting, AGU.
- Norton, I., H. Van Avendonk, **G. Christeson**, and D. Eddy (2014), Formation of the Gulf of Mexico salt basin, Abstract T53B-4682 presented at 2014 Fall Meeting, AGU.
- Roland, E., M. Walton, N. Ruppert, S. Gulick, **G. Christeson**, and P. Haeussler (2014), Aftershock source properties of events following the 2013 Craig Earthquake: new evidence for structural heterogeneity on the northern Queen Charlotte Fault, Abstract T11A-4545 presented at 2014 Fall Meeting, AGU.
- Van Avendonk, H., M. Magnani, D. Shillington, J. Gaherty, M. Hornbach, B. Dugan, M. Long, D. Lizarralde, A. Becel, M. Benoit, S. Harder, L. Wagner, and **G. Christeson** (2014), ENAM:

- A community seismic experiment targeting rifting processes and post-rift evolution of the Mid Atlantic US margin, Abstract T53B-4683 presented at 2014 Fall Meeting, AGU.
- Christeson, G.L.**, H.J. Van Avendonk, D.R. Eddy, I.O. Norton, G.D. Karner, C.A. Johnson, E.A. Kneller, and J. Snedden (2013), Deep crustal structure northern Gulf of Mexico, Abstract T31G-07 presented at 2013 Fall Meeting, AGU.
- Eddy, D.R., H.J. Van Avendonk, **G.L. Christeson**, I.O. Norton, G.D. Karner, E.A. Kneller, C.A. Johnson, and J. Snedden (2013), Syn-rift volcanism and seafloor-spreading in the northern Gulf of Mexico: Results from the GUMBO marine seismic refraction project, Abstract T21A-2532 presented at 2013 Fall Meeting, AGU.
- Norton, I.O., H. J. Van Avendonk, **G.L. Christeson**, and D.R. Eddy (2013), Crustal structure of the northern Gulf of Mexico from potential fields and seismic refraction, Abstract T12B-08 presented at 2013 Fall Meeting, AGU.
- Snedden, J., **G. Christeson**, D. Eddy, P. Ganey-Curry, I. Norton, H. Olson, and H. Van Avendonk (2013), A New Temporal Model for Eastern Gulf of Mexico Mesozoic Deposition, Gulf Coast Association of Geological Societies Transactions, v. 63, p. 609-612.
- Eddy, D., **G. Christeson**, H. Van Avendonk, I. Norton, G. Karner, C. Johnson, E. Kneller, and J. Snedden (2013), Seismic Refraction Profiles Indicate a History of Syn-Rift Volcanism and Seafloor-Spreading in the Northeastern Gulf of Mexico, presented at 2013 AAPG Annual Meeting.
- Van Avendonk, H., D. Eddy, **G. Christeson**, I. Norton, G. Karner, C. Johnson, E. Kneller, and J. Snedden (2013), Structure and Early Evolution of the Northwestern Gulf of Mexico: New Constraints from Marine Seismic Refraction Data, presented at 2013 AAPG Annual Meeting.
- Christeson, G.**, D. Eddy, H. Van Avendonk, I. Norton, G. Karner, C. Johnson, E. Kneller, and J. Snedden (2013), Deep Crustal Structure Northeastern Gulf of Mexico, Abstract EGU2013-5990 presented at 2013 General Assembly, European Geosciences Union.
- Duncan, M., H. Van Avendonk, and **G. Christeson**, Evidence of a Volcanic Rifted Margin: A Velocity Model for the Gulf of Mexico Basin Opening Seismic Refraction Project (2013), Abstract EGU2013-11282 presented at 2013 General Assembly, European Geosciences Union.
- Eddy, D., H. Van Avendonk, **G. Christeson**, I. Norton, G. Karner, C. Johnson, E. Kneller, and J. Snedden (2013), Marine seismic refraction data indicate Mesozoic syn-rift volcanism and seafloor-spreading in the northwestern Gulf of Mexico, Abstract EGU2013-3607 presented at 2013 General Assembly, European Geosciences Union.
- Norton, I., H. Van Avendonk, **G. Christeson**, and D. Eddy (2013), Crustal structure of the northern Gulf of Mexico from potential fields and seismic refraction, Abstract EGU2013-6618 presented at 2013 General Assembly, European Geosciences Union.
- Van Avendonk, H., **G. Christeson**, I. Norton, D. Eddy, G. Karner, C. Johnson, and E. Kneller (2013), Structure and evolution of the Gulf of Mexico: New results from the GUMBO marine seismic refraction study, Abstract EGU2013-6230 presented at 2013 General Assembly, European Geosciences Union.
- Christeson, G.**, D. Eddy, H. Van Avendonk, I. Norton, G. Karner, C. Johnson, E. Kneller, and J. Snedden (2013), Deep Crustal Structure Northeastern Gulf of Mexico, Paper 7-3 presented at 2013 GSA South-Central Section Annual Meeting.
- Duncan, M., H. Van Avendonk, and **G. Christeson**, Evidence of a Volcanic Rifted Margin: A Velocity Model for the Gulf of Mexico Basin Opening Seismic Refraction Project (2013), Paper 7-4 presented at 2013 GSA South-Central Section Annual Meeting.
- Eddy, D., H. Van Avendonk, **G. Christeson**, I. Norton, G. Karner, C. Johnson, E. Kneller, and J. Snedden (2013), Marine seismic refraction data indicate Mesozoic syn-rift volcanism and seafloor-spreading in the northwestern Gulf of Mexico, Paper 7-2 presented at 2013 GSA South-Central Section Annual Meeting.
- Van Avendonk, H., **G. Christeson**, I. Norton, D. Eddy, G. Karner, C. Johnson, E. Kneller, and J. Pulliam (2013), Structure and evolution of the Gulf of Mexico: New results from the GUMBO marine seismic refraction study, Paper 13-1 presented at 2013 GSA South-Central Section Annual Meeting.

- Barth, G.A., D.S. Scheirer, **G.L. Christeson**, D.W. Scholl, and R.J. Stern (2012), New geophysical constraints on the tectonic history of the Bering Sea, Abstract T31B-2592 presented at 2012 Fall Meeting, AGU
- LeVoi, M.A., S.S. Gulick, R.S. Reece, G.A. Barth, and **G.L. Christeson** (2012), Tectonic control on deposition and evolution of the Baranof Fan, Gulf of Alaska, Abstract OS43F-03 presented at 2012 Fall Meeting, AGU
- Reece, R.S., **G.L. Christeson**, S.S. Gulick, G.A. Barth, and H.J. van Avendonk (2012), The effect of plate structure on intraplate volcanism, Kodiak-Bowie seamount chain, Gulf of Alaska, Abstract T51D-2625 presented at 2012 Fall Meeting, AGU
- Christeson, G.L.**, H.J. van Avendonk, S.S. Gulick, R.S. Reece, G.L. Pavlis, and R.F. Hansen (2012), Deep structure of the Yakutat terrane, southern Alaska, Abstract T23C-2688 presented at 2012 Fall Meeting, AGU.
- Pavlis, T.L., S.S. Gulick, R.L. Bruhn, **G.L. Christeson**, E. Enkelmann, J.T. Freymueller, B. Hallet, B.K. Horton, R.A. Hansen, P.O. Koons, G.L. Pavlis, K.D. Ridgway, J.A. Spotila, and H.J. van Avendonk (2012), Flat-slab subduction, orogenesis, intraplate deformation, and glacial erosion in southern Alaska: A tectonic-glacial progression from STEEP, Abstract T131-07 presented at 2012 Fall Meeting, AGU
- Christeson, G.L.**, H.J. van Avendonk, S.P. Gulick, G.L. Pavlis, and R.A. Hansen (2011), Moho depth of the Yakutat Terrane, southern Alaska, Abstract T33A-2381 presented at 2011 Fall Meeting, AGU.
- van Avendonk, H., L.L. Worthington, **G.L. Christeson**, S.P. Gulick, and T.L. Pavlis (2011), Seismic structure of sediments and basement of the Yakutat Terrane offshore southern Alaska from a combined OBS and MCS tomography inversion, Abstract T33A-2373 presented at 2011 Fall Meeting, AGU.
- Gulick, S.P., **G.L. Christeson**, I.O. Norton, T.L. Pavlis, R. Reece, H. van Avendonk, and L.L. Worthington (2011), Transition Fault and the Yakutat-Pacific-North American triple junction, Abstract T33A-2383 presented at 2011 Fall Meeting, AGU.
- R. Reece, S.P. Gulick, **G.L. Christeson**, G.A. Barth, and H. van Avendonk (2011), Effects of the Yakutat terrane collision with North America on the neighboring Pacific plate, Abstract T33A-2382 presented at 2011 Fall Meeting, AGU.
- Gulick, S.P.S., **G. Christeson**, J.V. Morgan, P. Barton, and M.R. Warner (2011), Insights into the geologic process of peak ring formation from the Chicxulub impact crater, Paper 24-9 presented at 2011 GSA Annual Meeting, Minneapolis.
- Christeson, G.L.**, J.V. Morgan, and M. Warner (2010), 3D full wavefield inversions of seismic data from the Blanco Transform Fault, Abstract S31A-2046 presented at 2010 Fall Meeting, AGU.
- Reece, R., S.P. Gulick, and **G.L. Christeson** (2010), Evidence for seismic strengthening and climate influence in creation of an anomalously large slope failure, Aleutian-Yakutat margin, Gulf of Alaska, Abstract OS22C-07 presented at 2010 Fall Meeting, AGU.
- Worthington, L.L., H.J. van Avendonk, S.P. Gulick, **G.L. Christeson**, and T.L. Pavlis (2010), Crustal Structure of the Yakutat Microplate: New Constraints for Understanding the Evolution of Subduction and Collision in southern Alaska, Abstract T12C-04 presented at 2010 Fall Meeting, AGU.
- Gulick, S.P., T.L. Pavlis, R.L. Bruhn, G.L. Christeson, J.T. Freymueller, R.A. Hansen, P.O. Koons, G.L. Pavlis, S. Roeske, R. Reece, H.J. van Avendonk, and L.L. Worthington (2010), Flat-slab subduction, whole crustal faulting, and geohazards in Alaska: Targets for Earthscope, Abstract G14A-02 presented at 2010 Fall Meeting, AGU.
- Christeson, G.L.**, J.V. Morgan, and M. Warner (2009), Shallow structure of young oceanic crust: Wavefield tomographic inversion of seismic data near the Blanco transform fault (abstract), *Eos. Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract S53A-1470.
- Morgan, J.V., **G.L. Christeson**, and M. Warner (2009), Using swath bathymetry as an a priori constraint in a 3D full wavefield tomographic inversion of seismic data across oceanic crust (abstract), *Eos. Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract S11C-07.

- Worthington, L.L., **G.L. Christeson**, H.J. Van Avendonk, and S.P. Gulick (2009), Crustal structure of the Yakutat microplate: New parameters for understanding the evolution of the Chugach-St. Elias orogeny (abstract), *Eos. Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract T53F-03.
- Reece, R., S.P. Gulick, **G.L. Christeson**, and L.L. Worthington (2009), Intraplate shearing and basin deformation in the Pacific plate as a result of the Yakutat block collision with North America (abstract), *Eos. Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract T33C-1924.
- Gulick, S.P.S., T.L. Pavlis, **G. Christeson**, J.M. Jaeger, K.D. Ridgway, L.L. Worthington, R.S. Reece, and B.K. Horton (2009), Marine records of flat slab subduction influenced by temperate glaciation in the St. Elias orogen, Gulf of Alaska (abstract), Geological Society of America Annual Meeting, Portland, Oregon, Abstract 108-17.
- Christeson, G.**, H. van Avendonk, S.P.S. Gulick, L.L. Worthington, and T.L. Pavlis (2009), Crustal structure of the Yakutat block: Constraints from STEEP wide-angle seismic data (abstract), Geological Society of America Annual Meeting, Portland, Oregon, Abstract 108-18.
- Worthington, L.L., S.S.P. Gulick, T.L. Pavlis, **G. Christeson**, and R.S. Reece (2009), Structural evolution of the submarine Pamplona Zone fold-thrust belt, St. Elias orogen (abstract), Geological Society of America Annual Meeting, Portland, Oregon, Abstract 108-19.
- Reece, R.S., S.P.S. Gulick, J.M. Jaeger, **G. Christeson**, L.L. Worthington, and T.L. Pavlis (2009), Erosion and deposition by cross-shelf glacial advance as a mechanism for channel inception in the Surveyor Fan, Gulf of Alaska (abstract), Geological Society of America Annual Meeting, Portland, Oregon, Abstract 108-20.
- Christeson, G.L.**, H. van Avendonk, S.P. Gulick, L. Worthington, and T. Pavlis (2008), Crustal structure of the Yakutat microplate: Constraints from STEEP wide-angle seismic data (abstract), *Eos. Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract T53B-1941.
- Lowe, L.A., S.P. Gulick, **G. Christeson**, H. van Avendonk, R. Reece, R. Elmore, and T. Pavlis (2008), Crustal structure and deformation of the Yakutat microplate: New insights from STEEP marine seismic reflection data (abstract), *Eos. Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract T53B-1941.
- Gulick, S.P.S., P. Barton, J. Morgan, **G. Christeson**, M. McDonald, K. Mendoza, G. Collins, A. Surendra, J. Urrutia, and P. Vermeesch (2008), Imaging and drilling the Chicxulub impact crater: Testing models for crater collapse (abstract), Geological Society of America Annual Meeting, Houston, Texas, Abstract 269-2.
- Warner, M.R., J.V. Morgan, R.A.F. Grieve, P.J. Barton, **G.L. Christeson**, S.P.S. Gulick, and A.T. Surendra (2008), Does Chicxulub possess a differentiated melt sheet? (abstract), Large Meteorite Impacts and Planetary Evolution IV, Vredefort Dome, South Africa, Abstract 3026.
- Christeson, G.L.**, K.D. McIntosh, and J.A. Karson (2007), Mapping of seismic layer 2A at intermediate-spreading crust exposed near Blanco Transform (abstract), *Eos. Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract T32B-07.
- Collins, G.S., J.V. Morgan, K. Wunnemann, D. Elbeshausen, S. Gulick, **G. Christeson**, and P. Barton (2007), Is the Chicxulub crater asymmetry due to target asymmetry or oblique impact? (abstract), *Eos. Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract U22A-02.
- Gulick, S.P., P.J. Barton, **G.L. Christeson**, M. McDonald, K. Mendoza-Cervantes, J.V. Morgan, Z. Pearson, A. Surendra, J. Urrutia-Fucugauchi, and P. Vermeesch (2007), Imaging the asymmetric Chicxulub impact crater and plans for drilling (abstract), *Eos. Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract U22A-03.
- Magnani, M., P. Mann, S.A. Clark, A. Escalona, C.A. Zelt, **G.L. Christeson**, and A. Levander (2007), BOLIVAR: The Caribbean-South America plate boundary between 60W and 71W as imaged by seismic reflection data (abstract), *Eos. Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract T13C-1474.
- Mann, P., M. Kroehler, A. Escalona, B. Magnani, and **G. Christeson** (2007), Subduction along the South Caribbean deformed belt: Age of initiation and backthrust origin (abstract), *Eos. Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract T11D-02.

- Zelt, C.A., **G.L. Christeson**, M.B. Magnani, S.A. Clark, M.C. Guedez, M. Bezada, A. Levander, and M. Schmitz (2007), BOLIVAR: Crustal structure of the Caribbean-South America plate boundary between 60W and 70W from wide-angle seismic data (abstract), *Eos. Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract T13C-1477.
- Morgan, J., P. Barton, **G. Christeson**, S. Gulick, and G. Collins (2007), Asymmetry of the Chicxulub crater – is it produced by asymmetry in the target? (abstract), Bridging the Gap II: Effect of Target Properties on the Impact Cratering Process, Abstract 8028.
- Barton, P., J. Morgan, S. Gulick, V. Price, M. Blackburn, **G. Christeson**, and J. Urrutia, Characterising the melt sheet in the Chicxulub impact crater using seismic data prior to new drilling (abstract), *Eos. Trans. AGU*, 88(23), Jt. Assem. Suppl, Abstract U34A-04, 2007.
- Gulick, S.P., M.A. McDonald, K. Mendoza, Z. Pearson, P. Barton, **G. Christeson**, J. Morgan, A. Surendra, P. Vermeesch, and J. Urrutia, Asymmetric structure of the Chicxulub impact crater: Possible causes of heterogeneity and targets for drilling (abstract), *Eos. Trans. AGU*, 88(23), Jt. Assem. Suppl, Abstract U34A-03, 2007.
- McDonald, M., S. Gulick, H. Melosh, and **G. Christeson**, The Chicxulub impact crater and oblique impact (abstract), *Eos. Trans. AGU*, 88(23), Jt. Assem. Suppl, Abstract U34A-07, 2007.
- Surendra, A.T., P.J. Barton, J. Morgan, S.P. Gulick, and **G.L. Christeson**, 3-D variation in peak ring structure of the Chicxulub impact crater (abstract), *Eos. Trans. AGU*, 88(23), Jt. Assem. Suppl, Abstract U34A-05, 2007.
- Levander, A., M. Schmitz, P. Mann, **G. Christeson**, J. Wright, H. Ave Lallemand, C. Zelt, J. Pindell, G. Pavlis, and F. Niu, BOLIVAR: Investigating island arc accretion along the Southeastern Caribbean plate boundary (abstract), Geological Society of America Annual Meeting, Abstract 81-7, 2006.
- Christeson, G.**, S. Gulick, J. Morgan, M. Warner, and P. Barton, Moho upwarping beneath the Chicxulub impact crater (abstract), Geological Society of America Annual Meeting, Abstract 44-9, 2006.
- Gulick, S., P. Barton, **G. Christeson**, M. McDonald, K. Mendoza, J. Morgan, J. Urrutia, and M. Warner, Sub-surface asymmetries of the Chicxulub impact crater (abstract), Geological Society of America Annual Meeting, Abstract 44-7, 2006.
- Morgan, J.V., J. Urrutia, S. Gulick, **G. Christeson**, R. Grieve, M. Warner, P. Barton, M. Rebolledo, and J. Melosh, Future drilling of the Chicxulub impact crater (abstract), Geological Society of America Annual Meeting, Abstract 44-6, 2006.
- Magnani, M.B., C. Zelt, M. Guedez, S. Clark, A. Arogunmati, F. Niu, A. Levander, and **G. Christeson**, Island arc accretion by oblique collision: The results of the BOLIVAR project along the SE Caribbean plate boundary (abstract), 12th International Symposium on Deep Seismic Profiling of the Continents and Their Margins, Abstract ACM-P17, 2006.
- Barton, P.J., S.P.S. Gulick, J.V. Morgan, J. Urrutia-Fucugauchi, M.R. Warner, **G. Christeson**, and M. Rebolledo-Vieyra, New geophysical data from the Chicxulub impact crater (abstract), First International Conference on Impact Cratering in the Solar System, Abstract 295688, 2006.
- Christeson, G.L.**, S.P.S. Gulick, J.V. Morgan, M. Warner, and P. Barton, Moho structure beneath the Chicxulub impact crater (abstract), First International Conference on Impact Cratering in the Solar System, Abstract 296296, 2006.
- Gulick, S.P.S., **G.L. Christeson**, J. Morgan, M. Warner, and P. Barton, Structure of the multi-ring Chicxulub impact crater: what fault patterns tell us about pre-existing structures, impact obliquity, and crater collapse (abstract), First International Conference on Impact Cratering in the Solar System, Abstract 296339, 2006.
- McDonald, M., S. Gulick, **G. Christeson**, K. Mendoza, D. Gorney, and P.J. Barton, The terrace zone structure of the Chicxulub impact crater Yucatan, Mexico (abstract), First International Conference on Impact Cratering in the Solar System, Abstract 296029, 2006.
- Mendoza-Cervantes, K., S.S. Gulick, J. Urrutia-Fucugauchi, M. McDonald, **G. Christeson**, P.J. Barton, 3D image of the Chicxulub crater peak ring based on 2-D seismic reflection profiles

- from R/V Maurice Ewing 2005 survey (abstract), First International Conference on Impact Cratering in the Solar System, Abstract 296048, 2006.
- Morgan, J., M. Warner, J. Urrutia-Fucugauchi, S. Gulick, **G. Christeson**, P. Barton, M. Rebolledo-Vieyra, and R. Grieve, Structure of Chicxulub: Results from past drilling and targets for future drilling (abstract), First International Conference on Impact Cratering in the Solar System, Abstract 291056, 2006.
- Surendra, A.T., P.J. Barton, J.V. Morgan, S.P.S. Gulick, and **G. Christeson**, 3-D tomographic imaging of the Chicxulub impact crater (abstract), First International Conference on Impact Cratering in the Solar System, Abstract 296116, 2006.
- Mendoza-Cervantes, K., S.S. Gulick, J. Urrutia-Fucugauchi, M. McDonald, P. Barton, **G. Christeson**, J. Morgan, M. Warner, and J. Melosh, Preliminary Chicxulub crater peak ring interpretation on 2-D seismic reflection profiles from R/V Maurice Ewing 2005 survey (abstract), *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract P51A-0907, 2005.
- Guedez, M.C., C.A. Zelt, M.B. Magnani, A. Levander, **G.L. Christeson**, and D.S. Sawyer, BOLIVAR: Crustal structure across the Caribbean-South American plate boundary at 70W: Results from refraction and reflection data (abstract), *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract T11B-0386, 2005.
- Christeson, G.L.** and K.D. McIntosh, Correlation of seismic layer 2A and observed extrusive/dike boundary of fast-spreading and intermediate spreading crust exposed near Hess Deep and the Blanco transform (abstract), *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract T23F-02, 2005.
- Christeson, G.L.**, T. Aitken, P. Mann, and A. Escalona, BOLIVAR Project: A new model for Grenada and Tobago basin evolution (abstract), *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract T11B-0392, 2005.
- Morgan, J., J. Urrutia, S. Gulick, R. Grieve, M. Rebolledo, J. Melosh, M. Warner, **G. Christeson**, P. Barton, IODP drilling at Chicxulub (abstract), *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract P11A-02, 2005.
- Gulick, S.S., P.J. Barton, **G. Christeson**, J.V. Morgan, M.R. Warner, J. Urrutia-Fucugauchi, H.J. Melosh, M. Rebolledo-Vieyra, M. McDonald, P.M. Vermeesch, A.T. Surendra, T. Goldin, K. Mendoza, T.J. Sears, Seismically Imaged Architecture of the Chicxulub Impact Crater: Preliminary Results From the Last Cruise of the R/V Maurice Ewing (abstract), *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract P11A-05, 2005.
- McDonald, M.A., S.P. Gulick, D.L. Gorney, **G.L. Christeson**, P.J. Barton, J.V. Morgan, M.R. Warner, J. Urrutia-Fucugauchi, H.J. Melosh, P.M. Vermeesch, A.T. Surendra, T. Goldin, K. Mendoza, Terrace Zone Structure in the Chicxulub Impact Crater Based on 2-D Seismic Reflection Profiles: Preliminary Results From EW#0501 (abstract), *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract P21A-03, 2005.
- Surendra, A.T., P.J. Barton, P.M. Vermeesch, J.V. Morgan, M.R. Warner, S.P. Gulick, **G.L. Christeson**, J. Urrutia-Fucugauchi, M. Rebolledo-Vieyra, H.J. Melosh, M.A. McDonald, T. Goldin, K. Mendoza, IODP drilling at Chicxulub (abstract), *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract P21A-04, 2005.
- Aitken, T.J., P. Mann, and **G. Christeson**, BOLIVAR and GULFREX MCS Data Constrain Closure of the Grenada Backarc Basin During Oblique Collision Between the Lesser Antilles Arc System and Northern South America (abstract), *EOS*, 85(47), Fall Meet. Suppl, Abstract T33B-1380, 2004.
- Christeson, G.L.**, P. Mann, and T. Aitken, Crustal Structure of the Southern Lesser Antilles Arc: Integration of BOLIVAR Wide-angle and MCS Data (abstract), *EOS*, 85(47), Fall Meet. Suppl, Abstract T33B-1379, 2004.
- Kroehler, M.E., P. Mann, A. Escalona, and **G. Christeson**, Tectonic Evolution of the Central Venezuela Margin From Integration of BOLIVAR and GULFREX MCS Data, Venezuelan Margin (abstract), *EOS*, 85(47), Fall Meet. Suppl, Abstract T33B-1376, 2004.
- Zelt, C.A., M. Magnini, A. Levander, M. Schmitz, **G.L. Christeson**, P. Mann, D.S. Sawyer, BOLIVAR: Crustal Structure Across the Caribbean-South American Plate Boundary at

- 67.5°W: Results From Wide-Angle Seismic Data (abstract), *EOS*, 85(47), Fall Meet. Suppl, Abstract T33B-1372, 2004.
- Sawyer, D.S., A. Levander, C.A. Zelt, **G.L. Christeson**, P. Mann, and M. Schmitz, BOLIVAR: Onshore-Offshore Seismic Transect of the Caribbean/South American Plate Boundary at Barcelona, Venezuela (abstract), *EOS*, 85(47), Fall Meet. Suppl, Abstract T33B-1375, 2004.
- Gorney, D.L., S.P.S. Gulick, and **G.L. Christeson**, Structural Character of the Terrace Zone and Implications for Crater Formation, Chicxulub Impact Crater (abstract), Paper No. 81-5, *Geological Society of America Abstracts with Programs*, 36(5), 204, 2004.
- Christeson, G.L.** and K.D. McIntosh, Correlation of shallow seismic structure and observed geologic boundaries of fast-spreading crust exposed near Hess Deep, *EOS*, 84(46), Fall Meet. Suppl, Abstract T11B-04, 2003.
- Brothers, D.S., **G.L. Christeson**, and K.D. McIntosh, Deep crustal structure of fast-spreading crust near Hess Deep, *EOS*, 84(46), Fall Meet. Suppl, Abstract T12D-0490, 2003.
- Fennel, T., K.K. Ellins, M. Morris, and **G. Christeson**, Cataclysms and catastrophes: A case study of improving K-12 science education through a university partnership, *EOS*, 84(46), Fall Meet. Suppl, Abstract ED22B-1232, 2003.
- Gulick, S.P.S., **G.L. Christeson**, J.V. Morgan, M.R. Warner, P. Barton, J. Urrutia-Fucugauchi, and H.J. Melosh, Active seismic and drilling studies of the chicxulub impact crater: A status report, Third International Conference on Large Meteorite Impacts, Abstract #4019, 2003.
- Barker, D.H.N., **G.L. Christeson**, and J.A. Austin, Crustal structure of an active backarc basin at the rift-drift transition: Bransfield Strait, Antarctica, *EOS*, 82, F1244, 2001.
- Christeson, G.L.**, J.V. Morgan, and M.R. Warner, Deep three-dimensional structure of the Chicxulub impact crater, 32nd Lunar and Planetary Science Conference, abstract #1728, 2001.
- Christeson, G.L.**, J.V. Morgan, M.R. Warner, and C.A. Zelt, Deep three-dimensional structure of Chicxulub impact crater from wide-angle seismic data, *EOS*, 81, F797, 2000.
- Barker, D.H.N., **G.L. Christeson**, J.A. Austin, I.W.D. Dalziel, Y. Nakamura, Y. Hello, B. Yates, Crustal structure of an active backarc basin: Preliminary results from an OBS wide-angle seismic experiment, Bransfield Strait, Antarctica, *EOS*, 81, F1116, 2000.
- Christeson, G.L.**, Y. Nakamura, R.T. Buffler, J.V. Morgan, M. Warner, and C.A. Zelt, Deep structure of Chicxulub impact crater from wide-angle seismic data, *Meteorit. Planet. Sci.*, 35, A41, 2000.
- Morgan, J., **G.L. Christeson**, M. Warner, and Y. Nakamura, Modeling seismic velocity in 3-D across the Chicxulub impact crater, 31st International Geological Congress, Rio de Janeiro, Brazil, 2000.
- Kritski, A., R.D. Muller, C.D.N. Collins, and **G.L. Christeson**, Velocity structure of the Argo and Roebuck basins, North West Shelf of Australia, ASEG 14th international conference and exhibition, Exploration beyond 2000: conference handbook, *Preview*, 84, 112, 2000.
- Clark, S.A., **G.L. Christeson**, J.A. Austin Jr, Y. Nakamura, D.S. Sawyer, Along-strike variation of a non-volcanic rifted margin: An MCS and OBS investigation of Galicia Bank and the Iberia Abyssal Plain, *EOS*, 80, S321-S322, 1999.
- Nakamura, Y., **G. L Christeson**, R. T. Buffler, J. Morgan, M. Warner and the Chicxulub Working Group, Structure of the Chicxulub impact crater as determined from large-offset onshore-offshore seismic data, In Lunar and Planetary Science XXX, Abstract #1288, Lunar and Planetary Institute, Houston (CD-ROM), 1999.
- Clark, S.A., G.L. Christeson, J.A. Austin Jr., Y. Nakamura, and D.S. Sawyer, Along-strike variation of a non-volcanic rifted margin: An MCS and OBS investigation of Galicia Bank and the Iberia Abyssal Plain, Non-volcanic rifting of continental margins: A comparison of evidence from land and sea, program with abstracts, 1999.
- Christeson, G.L.**, N.L. Bangs, T.H. Shipley, J.S. Stachowiak, and Y. Nakamura, Structure of the Lesser Antilles subduction zone backstop and accretionary complex, *EOS*, 80, F571, 1999.
- Stachowiak, J.S., N.L. Bangs, **G.L. Christeson**, T.H. Shipley, and Y. Nakamura, Influence of a non-rigid backstop on subduction processes at the northern Lesser Antilles convergent margin, *EOS*, 80, F571, 1999.

- Tivey, M.A. and **G. Christeson**, High-resolution magnetic imaging of extrusive and intrusive crust at Hess Deep and a comparison with Juan de Fuca and Hole 504B results, *EOS*, 80, F985, 1999.
- Morgan, J., **G. Christeson**, J. Brittan, and M. Warner, The Chicxulub seismic experiment; subsurface velocity structure, Abstracts of papers submitted to the Twenty-ninth lunar and planetary science conference, 29, Abstract number 1368, 1998.
- Kritski, A., R.D. Mueller, C.D.C. Collins, H.M.J. Stagg, and **G.L. Christeson**, Velocity structure of the Argo abyssal plain, North West Shelf of Australia, 14th Australian geological convention, Geoscience for the new millennium; abstracts, 49, 255, 1998.
- Christeson, G.L.**, K.D. McIntosh, T.H. Shipley, E. Flueh, H. Goedde, and G. Leandro, Structure of Costa Rica convergent margin offshore Nicoya Peninsula: Constraints from wide-angle OBS data, *EOS*, 79, F809, 1998.
- Bangs, N.L., T.H. Shipley, Y. Nakamura, **G. Christeson**, and J.S. Stachowiak, A seismic investigation of crustal structure and tectonics across the Barbados Ridge forearc basin and forearc high, *EOS*, 79, F889, 1998.
- Stachowiak, J.S., N.L. Bangs, T.H. Shipley, Y. Nakamura, and **G. Christeson**, Seismic reflection profiles of deformational structures across the Barbados Ridge forearc high and forearc basin, *EOS*, 79, F888, 1998.
- Christeson, G.L.**, Y. Nakamura, R.T. Buffler, and the Chicxulub Working Group, Structure of the Chicxulub impact crater from wide-angle OBS data, Large Meteorite Impacts and Planetary Evolution Conference, 1997.
- Christeson, G.L.**, Y. Nakamura, R.T. Buffler, and the Chicxulub Working Group, Structure of the Chicxulub crater from wide-angle OBS data: Evidence for a multi-ring impact basin?, *EOS*, 78, F399, 1997.
- Barth, G.A. and **G.L. Christeson**, Evidence for systematic variation in dike and extrusive layer thickness in young northern Pacific crust, *EOS*, 77, F730, 1996.
- Morgan, J., M. Warner, R.T. Buffler, **G. Christeson**, L. Marin, G. Suarez, and A. Hildebrand, Structure and stratigraphy of the KT Chicxulub impact crater, Yucatan, Mexico, Geological Society of America, 28th annual meeting, Abstracts with Programs - Geological Society of America, 28, 182, 1996.
- Christeson, G.L.**, J.D. Garmany, and P.R. Shaw, Vp and Vs structure of EPR 9-10°N: Implications for crack population and faulting of young fast-spreading crust, Ridge Theoretical Institute on faulting and magmatism at mid-ocean ridges, program with abstracts, 1995.
- Christeson, G.L.**, S. Operto, K.D. McIntosh, Y. Nakamura, T.H. Shipley, P.L. Stoffa, E. Flueh, J. Bialas, U. Bartschat, and A. Stavenhagen, TICOSECT: Structure of subduction zone off Nicoya Peninsula, Costa Rica, from wide-angle OBS data, *EOS*, 76, F550, 1995.
- Operto, S., C. Calderón, P. Stoffa, F. Akbar, K. McIntosh, T. Shipley, J. Floyd, Y. Nakamura, J. Pulliam, **G. Christeson**, and TICOSECT Participants, Preliminary 3-D velocity structure offshore Costa Rica: Travel time inversion from 2-D intersecting in-line seismic profiles, *EOS*, 76, F551, 1995.
- Christeson, G.L.**, J.D. Garmany, and P.R. Shaw, Poisson's ratio of young EPR crust; implications for crack population and porosity structure, *EOS*, 75, F602, 1994.
- Sha, R., J.D. Garmany, Y. Nakamura, **G.L. Christeson**, and Y. Hello, Pre-stack migration imaging of the East Pacific Rise using OBS data, *EOS*, 75, F602, 1994.
- Christeson, G.L.**, G.M. Kent, R.S. Detrick, and G.M. Purdy, Shallow crustal structure of the fast-spreading EPR: Insights from finite difference modeling, *EOS*, 74, F604, 1993.
- Ludwig, R., G.J. Fryer, **G.L. Christeson**, and G.M. Purdy, Porosity in the shallow crust at the East Pacific Rise, *EOS*, 74, F604, 1993.
- Purdy, G. M., **G.L. Christeson**, G.J. Fryer, and J.A. Collins, Models for the generation of the uppermost oceanic crust, *EOS*, 73, 273, 1992.
- Christeson, G.L.**, G.M. Purdy, and D.R. Toomey, A tomographic inversion of the shallow velocity structure of the East Pacific Rise at 9 degrees 30'N, *EOS*, 73, 273-274, 1992.

- Collins, J.A., D.R. Toomey, G.M. Purdy, and **G.L. Christeson**, Can on-bottom seismic refraction experiments resolve the fine-scale structure of the upper 500 m of the oceanic crust?, *EOS*, 73, 356, 1992.
- Christeson, G.L.**, G.M. Purdy, J.A. Collins, and G.J. Fryer, High-resolution determinations of the upper crustal structure of the East Pacific Rise from ocean bottom refraction experiments, *EOS*, 73, 592, 1992.
- Christeson, G.L.**, G.M. Purdy, and G.J. Fryer, Upper crustal structure of the East-Pacific Rise from ocean bottom refraction experiments: The velocity structure, *EOS*, 72, 262, 1991.
- Purdy, G.M., G.L. Christeson, G.J. Fryer, and P.A. Berge, Upper crustal structure of the East-Pacific Rise from ocean bottom refraction experiments: Interpretation and placement of a deep drill hole, *EOS*, 72, 262, 1991.
- Purdy, G.M., **G.L. Christeson**, and G.J. Fryer, The rate of change of upper crustal seismic velocities with age, *EOS*, 72, 447, 1991.
- Christeson, G.L.**, G.M. Purdy, and G.J. Fryer, A dramatic change in the upper crustal structure of the East-Pacific Rise from ocean bottom refraction experiments, *EOS*, 72, 480, 1991.
- Fryer, G.J., R. Ludwig, P.A. Berge, **G.L. Christeson**, and G.M. Purdy, Porosity models for the East Pacific Rise crest, *EOS*, 72, 491, 1991.
- Christeson, G.L.** and M. McNutt, Gravity and bathymetry modelling of the Marquesas Fracture Zone, *EOS*, 71, 622, 1990.
- Purdy, G.M., L.S.L. Kong, **G. Christeson**, and S.C. Solomon, A relationship between spreading rate and the seismic structure of zero age oceanic crust, *EOS*, 71, 627, 1990.
- Christeson, G.L.**, M.K. McNutt, and P. Shaw, Deflection of the vertical, gravity, and bathymetry modelling of the Marquesas fracture zone, *EOS*, 71, 1598, 1990.
- Schouten, H., G.M. Purdy, J. Lin, **G. Christeson**, R. Edwards, J.C. Sempere, and R. Tyce, Low acoustic reflectivity basins in Mid-Atlantic rift valley (26-27.5 degrees N): Detection of hydrothermal areas using Seabeam? *EOS*, 70, 455, 1989.
- Christeson, G.** and G.M. Purdy, A seismic refraction experiment along the crest of the Northern Symmetric segment of the Juan de Fuca Ridge, *EOS*, 70, 1160, 1989.
- Purdy, G.M., **G. Christeson**, and K. Rohr, An on-bottom refraction profile on the eastern flank of the Endeavor segment of the Juan de Fuca Ridge recorded using a deep towed explosive source, *EOS*, 70, 1160, 1989.