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Centre for Earth Evolution and Dynamics (CEED)
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Education

PhD in Geophysics	Massachusetts Institute of Technology	1994-2000
BA in Physics & Geophysics (double)	University of California at Berkeley	1990-1994

Professional Experience

Earth Modelling Team Leader	Centre for Earth Evolution & Dynamics (CEED)	2016-now
Professor of Mantle Dynamics	University of Oslo, Department of Geosciences	2016-now
Associate Professor	University of Hawaii at Mānoa	2012-2016
Assistant Professor	University of Hawaii at Mānoa	2008-2012
Assistant Professor	Johns Hopkins University	2005-2008
Assistant Research Scientist	University of Michigan	2004-2005
Postdoctoral Scholar	University of Michigan	2001-2004
Research Scientist	Mission Research Corporation	2000-2001
Postdoctoral Scholar	California Institute of Technology	1999-2000

Visiting Appointments

Univ. of Hawaii, Dept. Earth Sci.	Honolulu, USA (affiliate faculty)	2016-now
Centre for Advanced Study	Oslo, Norway	2010-2011
Carnegie Institute in Washington	Washington, DC, USA (off-site visitor)	2006-2009
University of Montpellier II	Montpellier, France	2007
Danish Lithosphere Centre	Copenhagen, Denmark	2003

Major Awards

Evgueni Burov Medal	International Lithosphere Program	2020
CAREER Award	National Science Foundation	2012
Postdoctoral Research Fellowship	National Science Foundation	1999
O.K. Earl Postdoc. Fellowship	California Institute of Technology	1999
Graduate Research Fellowship	National Science Foundation	1994
Department Award	Dept. Geology & Geophysics, UC Berkeley	1994

Minor Awards

Excellence in Refereeing Citation	<i>Geochemistry, Geophysics, Geosystems</i>	2013
Outstanding Reviewer Award	<i>Geophysical Journal International</i>	2009, 2010
Excellence in Refereeing Citation	<i>Journal of Geophysical Research – Solid Earth</i>	2004

Funded Projects

Magnetotelluric Analysis for Greenland and Postglacial Isostatic Evolution (MAGPIE)				
	NFR (Norway)	PI	8.9M NOK	2019-2023
3D Earth – Greenland	ESA	PI	€55,000	2020-2021
Absolute Motion of Plumes and Plates	NSF Marine GG	Co-PI	\$276,969	2020-2023
3D Visualization on Virtual Desktops	UiO e-Infrastructure	PI	2.5M NOK	2017-2019
The Solid Earth's Influence on Sea Level	NSF CAREER	PI	\$263,596	2012-2016
Ocean-Bearing Planets Near Cool Stars	NASA Exobiology	Co-I	\$357,063	2010-2014
Mantle Flow & Ridge Geodynamics	NSF Marine GG	PI	\$39,387	2010-2013
Grain-Size Evolution and Mantle Flow	NSF Deep Interior	PI	\$198,950	2009-2013
Viscosity Heterogeneity & Plate Tectonics	NSF Geophysics	PI	\$207,250	2006-2012
Shear-Driven Upwelling in Western USA	Geosci. Consultants	PI	\$85,525	2011-2012
Earthscope Institute: The LAB	NSF Earthscope	Co-PI	\$93,893	2011-2012
Computational Upgrade for SOEST GT	NSF Infrastructure	PI	\$70,000	2009-2010
3D Mantle Flow Beneath Nevada	Geosci. Consultants	PI	\$171,236	2007-2010
Mantle Flow and Seismic Anisotropy	NSF Geophysics	PI	\$19,151	2005-2006
Geological Constraints on Plate Forces	NSF Postdoctoral	PI	\$44,500	1999-2000

Student & Postdoc Mentoring

Postdoctoral Scholars	Björn Heyn	University of Oslo	2020-now
	Ágnes Király	University of Oslo	2017-2020
	Fabio Crameri	University of Oslo	2016-2018
	Joost van Summeren	University of Hawaii	2009-2013
	Maxim Ballmer	University of Hawaii	2011-2012
	Todd Bianco	University of Hawaii	2009-2010
	Laurent Métivier	Johns Hopkins Univ.	2007-2008
PhD Students	Florence Ramirez	cotutelle: Univ. Oslo / Macquarie Univ.	2019-now
	Maaïke Weerdestein	University of Oslo	2019-now
	Krister Karlsen	University of Oslo	2017-now
	Björn Heyn	University of Oslo	2016-2020
	PhD Thesis: <i>Geodynamics of Earth's Large Low Shear Velocity Provinces: Interaction with mantle flow, plume initiation, and core-mantle boundary deformation</i>		
	Benjun Wu (advisor 2006-2008)	Johns Hopkins Univ.	PhD 2011
	PhD Thesis (chapter 3): <i>The strength of lithospheric slabs constrained by plate motions</i>		
MS Students	Petra Hatalova	University of Oslo	2018-2019
	<i>Guiding of tectonic plate motions by transform faults and mid-ocean ridges</i>		
	Robert Hartman	GEOMAR, Germany	2017-2019
	<i>Impact of Antarctic deglaciation on Earth deformation and sea level change: An assessment of modeling lateral viscosity variations with multiple 1D Earth rheology structures</i>		
	Alysse Bebin	ENSTA Bretagne, France	2017
	<i>Characterizing the rate of lithospheric mass loss due to gravitational instability</i>		
	C. Evan Watkins	University of Hawaii	2014-2016
	<i>Constraints on dynamic topography from asymmetric subsidence across the mid-ocean ridges</i>		
	Emeline Veit	ENSTA Bretagne, France	2015
	<i>The impact of groundwater depletion of spatial variations in sea level change during the past century</i>		
	Harrison Togia	University of Hawaii	2012-2015
	<i>New constraints on temporal variations in Hawaiian Plume buoyancy flux</i>		
	Svetlana Natarov	University of Hawaii	2009-2011
	<i>Constraining Poiseuille flow in the asthenosphere using depth-dependence of azimuthal seismic anisotropy</i>		
	Christopher Hayes	Johns Hopkins Univ.	2006-2008
	<i>Tectonic controls on megathrust seismicity: neutral upper plate strain promotes great earthquakes</i>		
	Stephen Steiner	Johns Hopkins Univ.	2005-2006
	<i>Influence of active mantle upwelling for driving plate motions</i>		
Undergraduate Thesis	Julia Fiedler	University of Hawaii	2009-2010
	<i>Spatial variability of sea level rise due to water impoundment behind dams</i>		

Classes Taught

University of Oslo	Geodynamics	GEO4630 (10 ECTS)	instructor: F18, F19, F20
	Lithosphere & Asthenosphere Dyn.	DEEP9300 (5 ECTS)	co-instructor: F17, F19
	Planetary Phys. & Global Tectonics	DEEP9100	guest lectures
	Solid Earth – Fluid Earth	DEEP9400	guest lectures
	Large Igneous Provinces	DEEP9500	guest lectures
University of Hawaii	Dynamic Earth	GG101 (4 credits)	instructor: F13, S14
	Structural Geology	GG303 (3 credits)	instructor: F09
	Physics of the Earth and Planets	GG304 (4 credits)	instructor: S11, S13, S15
	Undergraduate Seminar	GG410 (2 credits)	instructor: F11
	Graduate Seminar	GG610 (1 credits)	instructor: S11, F11, S16
	Seminar in Tectonics: Subduction	GG672 (3 credits)	instructor: S09
	Geophys: Solid, Fluid, & Wave Mech.	GG650 (3 credits)	instructor: F14
	Continuum Mechanics	GG681 (3 credits)	instructor: S10, S12, S14
Johns Hopkins University	Freshman Seminar: Sea Level Rise	270.111 (1 credit)	instructor: S08
	Geodynamics	270.303 (3 credits)	instructor: F06, F08
	Journal Club	270.605 (1 credit)	instructor: F05 to S08

	Mantle Convection & Plate Tectonics	270.616 (3 credits)	instructor: F05, F07
	Computer Geoscience	270.640 (3 credits)	instructor: S07
Mass. Inst. Technology	Geosystems	12.550	teaching assistant
	Geodynamics	12.520	teaching assistant
	Inverse Theory for MIT's executive education program		guest instructor
Univ. Calif. Berkeley	The Planets	Undergraduate Teaching Assistant	
	Student Learning Center	Mathematics Tutor: Drop-in & Special Needs	

Fieldwork and Seagoing Experience

MAGPIE 2019	Magnetotellurics fieldwork on the Greenland Ice Sheet	2019
Kilo Moana 1106	Oceanic Crustal Structure of the NE Hawaiian Arch	2011
Kilo Moana 0903	Density Structure of the Mahukona Ridge	2009

Community Code Development

TracTec	<i>Collaborator</i>	Public code for computing seafloor ages	2020
calcpi	<i>Contributor</i>	Public code for computing anisotropic fabrics	2007
CitComS	<i>Contributor</i>	Community finite-element mantle convection code	2000

Editorial and Committee Responsibilities

Associate Editor	<i>Geochemistry, Geophysics, Geosystems (G³)</i>	2015-now
Associate Editor	<i>Linking Plate Tectonics & Volcanism to Deep Earth Dynamics: A Tribute to T.H. Torsvik (Tectonophysics theme issue)</i>	2016-2019
Associate Editor	<i>Geological Society of America Bulletin</i>	2014-2016
Associate Editor	<i>The Lithosphere-Asthenosphere Boundary (G³ theme issue)</i>	2011-2014
Nominating Committee	Computational Infrastructure for Geodynamics (CIG)	2012, 16, 17
Proposal Review Panel	National Science Foundation (USA)	2009

PhD Evaluation Committees

Andres Vesterholt	University of Aarhus (Denmark)	2020
Menno Fraters	University of Utrecht (Netherlands)	2019
Frank Guldstrand	University of Oslo (Norway)	2018
Gianluca Gerardi	University of Paris Sud (France)	2018
Maëlis Arnould	l'Ecole Normale Supérieure de Lyon (France)	2018
Eva Bredow	University of Potsdam (Germany)	2018
Adam Beall	University of Melbourne (Australia)	2017
Anthony Osei Tutu	University of Potsdam (Germany)	2017
Nicky Wright	University of Sydney (Australia)	2017
Raquibul Hassan	University of Sydney (Australia)	2016
Jonathan Weiss	University of Hawaii (USA)	2016
Brian Boston	University of Hawaii (USA)	2015
Oguz Göğüş	University of Toronto (Canada)	2010
Arnould Heuret	University of Montpellier II (France)	2005

Meeting Organization

Advancing Earth Dynamics in CIG IV	<i>Co-Organizer</i>	Virtual Online	2020
Nordic Geological Winter Meeting	<i>Scientific Committee</i>	Oslo (Norway)	2020
CEED Water Planet Symposium	<i>Co-Organizer</i>	Sarpsborg (Norway)	2019
Conceiving Earth Evolution & Dynamics	<i>Co-Organizer</i>	Tenerife (Spain)	2017
American Geophysical Union Fall Meeting	<i>Session Convener</i>	San Francisco (USA)	2006-2013
American Geophysical Union Fall Meeting	<i>Program Committee</i>	San Francisco (USA)	2006-2007
Lithosphere-Asthenosphere Boundary	<i>Co-Organizer</i>	Portland (USA)	2011
European Geophysical U. Gen. Assembly	<i>Session Convener</i>	Vienna (Austria)	2011
End-Term Hawaii Open Mtg. Exoplanets	<i>Co-Organizer</i>	Honolulu (USA)	2010
Subduction Zone Geodynamics Conference	<i>Scientific Committee</i>	Montpellier (France)	2007
JHU-UM Global Mantle Flow Workshop	<i>Organizer</i>	Baltimore (USA)	2007

Outreach Activities

Manoa Elementary School (Honolulu)	Sea level rise activities for 3 rd grade	2012-2015
Manoa Elementary School (Honolulu)	Plate tectonics activities for 2 nd grade	2012
SOEST Open House	Volunteer Instructor	2013
Undergraduate Summer Research Award	Proposal review committee (Univ. Hawaii)	2010
Geosymposium Presentation Judge	University of Nevada Las Vegas (USA)	2009
Waipahu High School (Honolulu)	Guest Lecturer	2009

Reviewer Duties**Book Review**

Cambridge University Press	Elsevier Books	AGU Books
University of Hawaii Books	Oxford Research Encyc.	Geological Magazine

Manuscript Review

<i>Canadian Journal of Earth Sciences</i>	<i>Astrobiology</i>	<i>AGU Books</i>
<i>Earth & Planetary Science Letters</i>	<i>Comunicações Geológicas</i>	<i>Geology</i>
<i>Geochemistry, Geophysics, Geosystems</i>	<i>Computers & Geosciences</i>	<i>Gondwana Research</i>
<i>Geological Soc. London Spec. Papers</i>	<i>Geophysical Journal Int.</i>	<i>Icarus</i>
<i>Geological Soc. America Bulletin</i>	<i>Geophysical Research Letters</i>	<i>Lithosphere</i>
<i>Geoscientific Model Development</i>	<i>Geoscience Frontiers</i>	<i>Nature</i>
<i>Journal Geophys. Research: Planets</i>	<i>Journal of Asian Earth Sci.</i>	<i>Nature Geoscience</i>
<i>Journal Geophys. Research: Solid Earth</i>	<i>Journal of Geodynamics</i>	<i>PLOS ONE</i>
<i>Journal of Structural Geology</i>	<i>Journal of Geology</i>	<i>Science</i>
<i>Journal Volcanology Geotherm. Res.</i>	<i>Nature Communications</i>	<i>Scientific Reports</i>
<i>Paleogeog., Paleoclim., Paleoecol.</i>	<i>Proc. Geologists' Assoc.</i>	<i>Solid Earth</i>
<i>Physics of Earth & Planetary Interiors</i>	<i>Remote Sensing of Environ.</i>	<i>Tectonics</i>
<i>Proc. National Academy of Sciences</i>	<i>Tectonophysics</i>	

Proposal Review

Scientific Societies:	AGU (<i>Chapman Conf.</i>), ACS (<i>Petroleum Res. Fund.</i>), Royal Society (<i>Univ. Res. Fellowship</i>)
NSF Earth Sci. (EAR) Programs:	<i>CAREER, Earthscope, CSEDI, Geophys., IF, SGP, IES</i>
NSF Ocean Sci. (OCE) Programs:	<i>MGG, OTIC, MARGINS, RIDGE 2000, GeoPRISMS</i>
Other USA Agencies:	Dept. of State (<i>CRDF</i>), NASA (<i>Mars Fundamental Res.</i>)
International Research Councils:	Europe, France, Israel, Netherlands, Switzerland, Italy, Singapore, Germany, United Kingdom, & Czech Republic

Internal Committees: University of Oslo (2016-present)

CEED	2018-pres. Water Planet Umbrella Project (organizer)
	2016-pres. Uninett Sigma2 Project Leader for Earth Modelling
	MS Thesis Committees: <i>Corr</i> (2019)

Internal Committees: University of Hawaii (2008-2016)

Univ. Hawaii	2010	Undergraduate Summer Research Award Proposal Review Committee
Geology & Geophysics	2008-2013	Graduate Admissions Comm.
	2010-2014	Department Comm.
	2008-2014	Bullard Fellowship Comm.
	2011	SOEST Open House Comm.
	2013-2014	Geochemistry Search Comm.
		2014-2016 Honors Committee
		2015-2016 Student Committee
		Qualifying Exam Committees: <i>Benediktsdóttir</i> (2008), <i>Boston</i> (2011)
		Comprehensive Exam Committees: <i>Weiss</i> (2011), <i>Boston</i> (chair, 2011), <i>Natarov</i> (2012), <i>Weaver</i> (2013), <i>Howell</i> (chair, 2013), <i>First</i> (2014), <i>Lynn</i> (2014), <i>Acosta</i> (2014-15), <i>Cameron</i> (chair, 2015), <i>Gabrieli</i> (2015), <i>Hu</i> (2016)
		MS Thesis Committees: <i>Natarov</i> (chair, 2010-11), <i>Barnes</i> (2011-13), <i>Howell</i> (2011-13), <i>Maher</i> (2012-14), <i>Togia</i> (chair, 2013-15), <i>Watkins</i> (chair, 2016)
		PhD Thesis Committees: <i>Boston</i> (2013-15), <i>Weiss</i> (2013-16), <i>Natarov</i> (2013-18)

Published Manuscripts (all peer-reviewed)

80. Király², Á., C.P. Conrad, and L.N. Hansen (2020), Evolving viscous anisotropy in the upper mantle and its geodynamic implications, *Geochemistry, Geophysics, Geosystems*, 21, e2020GC009159. <https://doi.org/10.1029/2020GC009159>
79. Heyn¹, B.H., C.P. Conrad, and R.G. Trønnes (2020), Core-mantle boundary topography and its relation to the viscosity structure of the lowermost mantle, *Earth and Planetary Science Letters*, 543, 16358. <https://doi.org/10.1016/j.epsl.2020.116358>
78. Heyn¹, B.H., C.P. Conrad, and R.G. Trønnes (2020), How thermochemical piles can (periodically) generate plumes at their edges, *Journal of Geophysical Research*, 125, e2019JB018726. <https://doi.org/10.1029/2019JB018726>
77. Karlsen¹, K.S., M. Domeier, C. Gaina, and C.P. Conrad (2020), A tracer-based algorithm for automatic generation of seafloor age grids from plate tectonic reconstructions, *Computers and Geosciences*, 140, 104508. <https://doi.org/10.1016/j.cageo.2020.104508>
76. Sames, B., M. Wagreich, C.P. Conrad, and S. Iqbal (2020), Aquifer-eustasy as the main driver of short-term sea-level fluctuations during Cretaceous hothouse climate phases, *Geological Society, London, Special Publications*, 498, 9-38. <https://doi.org/10.1144/SP498-2019-105>
75. Hartman¹, R., J. Ebbing, and C.P. Conrad, (2020), A Multiple 1D Earth Approach (M1DEA) to account for lateral viscosity variations in solutions of the sea level equation: An application for glacial isostatic adjustment by Antarctic deglaciation, *Journal of Geodynamics*, 135, 101695. <https://doi.org/10.1016/j.jog.2020.101695>
74. Wessel, P., and C.P. Conrad (2019), Assessing models for Pacific absolute plate and plume motions, *Geochemistry, Geophysics, Geosystems*, 20, 6016-6032. <https://doi.org/10.1029/2019GC008647>
73. Torsvik, T.H., B. Steinberger, G.E. Shephard, P.V. Doubrovine, C. Gaina, M. Domeier, C.P. Conrad, and W.W. Sager (2019), Pacific-Panthalassic reconstructions: Overview, errata and the way forward, *Geochemistry, Geophysics, Geosystems*, 20, 3659-3689. <https://doi.org/10.1029/2019GC008402>
72. Karlsen¹, K.S., C.P. Conrad, and V. Magni (2019), Deep water cycling and sea level change since the breakup of Pangea, *Geochemistry, Geophysics, Geosystems*, 20, 2919-35. <https://doi.org/10.1029/2019GC008232>
71. Cramer², F., C.P. Conrad, L. Montési, and C. R. Lithgow-Bertelloni (2019), The dynamic life of an oceanic plate, *Tectonophysics*, 760, 107-135. <https://doi.org/10.1016/j.tecto.2018.03.016>
70. Steinberger, B., C.P. Conrad, A. Osei Tutu, and M.J. Hoggard (2019), On the amplitude of dynamic topography at spherical harmonic degree two, *Tectonophysics*, 760, 221-228. <https://doi.org/10.1016/j.tecto.2017.11.032>
69. Paul, J., A. Ghosh, and C.P. Conrad, (2019), Traction and strain-rate at the base of the lithosphere: An insight into cratonic survival, *Geophysical Journal International*, 217, 1024-1033. <https://doi.org/10.1093/gji/ggz079>
68. Heyn¹, B.H., C.P. Conrad, and R.G. Trønnes (2018), Stabilizing effect of compositional viscosity contrasts on thermochemical piles, *Geophysical Research Letters*, 45, 7523-7532. <https://doi.org/10.1029/2018GL078799>
67. Watkins¹, C.E., and C.P. Conrad (2018), Constraints on dynamic topography from asymmetric subsidence of the mid-ocean ridges, *Earth and Planetary Science Letters*, 484, 264-275. <https://doi.org/10.1016/j.epsl.2017.12.028>
66. Conrad, C.P., K. Selway, M.M. Hirschmann, M.D. Ballmer, and P. Wessel (2017), Constraints on volumes and patterns of asthenospheric melt from the space-time distribution of seamounts, *Geophysical Research Letters*, 44, 7203-7210. <https://doi.org/10.1002/2017GL074098>
65. Dangendorf, S., M. Marcos, G. Wöppelmann, C.P. Conrad, T. Frederikse, and R. Riva (2017), Reassessment of 20th century global mean sea level rise, *Proceedings of the National Academy of Sciences*, 114, 5946-5951. <https://doi.org/10.1073/pnas.161007114>
64. Hansen, L.N., C.P. Conrad, Y. Boneh, P. Skemer, J.M. Warren, and D.L. Kohlstedt (2016), Viscosity anisotropy of textured olivine aggregates, Part 2: Micromechanical model, *Journal of Geophysical Research*, 121, 7137-7160. <https://doi.org/10.1002/2016JB013240>
63. Plyusnina, E.E., D.A. Ruban, C.P. Conrad, G.d.S. dos Anjos Zerfass, and H. Zerfass (2016), Long-term eustatic cyclicity in the Paleogene: a critical assessment, *Proceedings of the Geologists' Association*, 127, 425-434. <https://doi.org/10.1016/j.pgeola.2016.03.006>

62. Veit¹, E., and C.P. Conrad (2016), The impact of groundwater depletion on spatial variations in sea level change during the past century, *Geophysical Research Letters*, 43, 3351-3359. <https://doi.org/10.1029/2012GL068118>
61. Sames, B., M. Wagleich, J.E. Wendler, B.U. Haq, C.P. Conrad, M.C. Melinte-Dobrinescu, X. Hu, I. Wendler, E. Wolfgring, I.Ö. Yilmaz, and S.O. Zorina (2016), Review: Short-term sea-level changes in a greenhouse world – a view from the Cretaceous, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 441, Part 3, 393-411. <https://doi.org/10.1016/j.palaeo.2015.10.045>
60. Becker, T.W., A.J. Schaeffer, S. Lebedev, and C.P. Conrad, (2015), Toward a generalized plate motion reference frame, *Geophysical Research Letters*, 42, 3188-3196. <https://doi.org/10.1002/2015GL063695>
59. Ballmer², M.D., C.P. Conrad, E.I. Smith, and R. Johnsen (2015), Intraplate volcanism at the edges of the Colorado Plateau sustained by a combination of triggered edge-driven convection and shear-driven upwelling, *Geochemistry, Geophysics, Geosystems*, 16, 366-379. <https://doi.org/10.1002/2014GC005641>
58. Becker, T.W., C.P. Conrad, A.J. Schaeffer, and S. Lebedev (2014), Origin of azimuthal seismic anisotropy in oceanic plates and mantle, *Earth and Planetary Science Letters*, 401, 236-250. <https://doi.org/10.1016/j.epsl.2014.06.014>
57. Ruban, D.A., and C.P. Conrad (2013), Late Silurian-Middle Devonian long-term shoreline shifts on the northern Gondwanan margin: Eustatic versus tectonic controls, *Proceedings of the Geologist's Association*, 124, 883-892. <https://doi.org/10.1016/j.pgeola.2012.12.004>
56. Conrad, C.P. (2013), The solid earth's influence on sea level, *Geological Society of America Bulletin*, 125, 1027-1052. <https://doi.org/10.1130/B30764.1>
55. Conrad, C.P., B. Steinberger, and T.H. Torsvik (2013), Stability of active mantle upwelling revealed by net characteristics of plate tectonics, *Nature*, 498, 479-482. <https://doi.org/10.1038/nature12203>
54. van Summeren², J., E. Gaidos, and C.P. Conrad (2013), Magnetodynamo lifetimes for rocky, Earth-mass exoplanets with contrasting mantle convection regimes, *Journal of Geophysical Research: Planets*, 118, 938-951. <https://doi.org/10.1002/jgre.20077>
53. Ballmer², M.D., C.P. Conrad, E.I. Smith, and N. Harmon (2013), Non-hotspot volcano chains produced by migration of shear-driven upwelling toward the East Pacific Rise, *Geology*, 41, 479-482. <https://doi.org/10.1130/G33804.1>
52. Faccenna, C., T.W. Becker, C.P. Conrad, and L. Husson (2013), Mountain building and mantle dynamics, *Tectonics*, 32, 80-93. <https://doi.org/10.1029/2012TC003176>
51. Husson, L., and C.P. Conrad (2012), On the location of hotspots in the framework of mantle convection, *Geophysical Research Letters*, 39, L17304. <https://doi.org/10.1029/2012GL052866>
50. Natarov¹, S.I., and C.P. Conrad (2012), The role of Poiseuille flow in creating depth-variation of asthenospheric shear, *Geophysical Journal International*, 190, 1297-1310. <https://doi.org/10.1111/j.1365-246X.2012.05562.x>
49. Combes, M., C. Grigné, L. Husson, C.P. Conrad, S. Le Yaouanq, M. Parenthoën, C. Tisseau, and J. Tissea (2012), Multiagent simulation of evolutive plate tectonics applied to the thermal evolution of the Earth, *Geochemistry, Geophysics, Geosystems*, 13, Q05006. <https://doi.org/10.1029/2011GC004014>
48. Heuret, A., C.P. Conrad, F. Funiciello, S. Lallemand, and L. Sandri (2012), Relation between subduction megathrust earthquakes, trench sediment thickness, and upper plate strain, *Geophysical Research Letters*, 39, L05304. <https://doi.org/10.1029/2011GL050712>
47. van Summeren², J., C.P. Conrad, and C. Lithgow-Bertelloni (2012), The importance of slab pull and a global asthenosphere to plate motions, *Geochemistry, Geophysics, Geosystems*, 13, Q0AK03. <https://doi.org/10.1029/2011GC003873>
46. Husson, L., C.P. Conrad, and C. Faccenna (2012), Plate motions, Andean orogeny, and volcanism above the South Atlantic convection cell, *Earth and Planetary Science Letters*, 317-318, 126-135. <https://doi.org/10.1016/j.epsl.2011.11.040>
45. Ruban, D.A., S.O. Zorina, C.P. Conrad, and N.I. Afanasieva (2012), In quest of Paleocene global-scale transgressions and regressions: constraints from a synthesis of regional trends, *Proceedings of the Geologist's Association*, 123, 7-18. <https://doi.org/10.1016/j.pgeola.2011.08.003>
44. Bianco², T.A., C.P. Conrad, and E.I. Smith (2011), Time-dependence of intraplate volcanism caused by shear-driven upwelling of low-viscosity regions within the asthenosphere, *Journal of Geophysical Research*, 116, B11103. <https://doi.org/10.1029/2011JB008270>
43. van Summeren², J., C.P. Conrad, and E. Gaidos (2011), Mantle convection, plate tectonics, and volcanism on hot exo-earths, *The Astrophysical Journal Letters*, 736, L15. <https://doi.org/10.1088/2041-8205/736/1/L15>

42. **Conrad, C.P., T.A. Bianco²**, E.I. Smith, and P. Wessel (2011), Patterns of intraplate volcanism controlled by asthenospheric shear, *Nature Geoscience*, 4, 317-321. <https://doi.org/10.1038/ngeo1111>
41. Ruban, D., **C.P. Conrad**, and A.J. van Loon (2010), The challenge of reconstructing the Phanerozoic sea level and the Pacific Basin tectonics, *Geologos*, 16, 237-245. <https://doi.org/10.2478/v10118-010-0007-9>
40. Ruban, D., S. Zorina, and **C.P. Conrad** (2010), No global-scale transgressive-regressive cycles in the Thanetian (Paleocene): evidence from interregional correlation, *Palaeogeography Palaeoclimatology Palaeoecology*, 295, 226-235. <https://doi.org/10.1016/j.palaeo.2010.05.040>
39. Gaidos, E. **C.P. Conrad**, M. Manga, and J. Hernlund (2010), Thermodynamic limits on magnetodynamos in rocky exoplanets, *Astrophysical Journal*, 718, 596-609. <https://doi.org/10.1088/0004-637X/718/2/596>
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36. **Conrad, C.P., B. Wu¹**, E.I. Smith, **T.A. Bianco²**, and A. Tibbetts (2010), Shear-driven upwelling induced by lateral viscosity variations and asthenospheric shear: A mechanism for intraplate volcanism, *Physics of the Earth and Planetary Interiors*, 178, 162-175. <https://doi.org/10.1016/j.pepi.2009.10.001>
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12. **Conrad, C.P.**, and M. Gurnis (2003), Mantle flow, seismic tomography, and the breakup of Gondwanaland: Integrating mantle convection backwards in time, *Geochemistry, Geophysics, Geosystems*, 4, 1031. <https://doi.org/10.1029/2001GC000299>
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3. **Conrad, C.P.**, and B.H. Hager (1997), Spatial variations in the rate of sea level rise caused by present-day melting of glaciers and ice sheets, *Geophysical Research Letters*, 24, 1503-1506. <https://doi.org/10.1029/97GL01338>
2. **Conrad, C.P.**, and P. Molnar (1997), The growth of Rayleigh-Taylor-type instabilities in the lithosphere for various rheological and density structures, *Geophysical Journal International*, 129, 95-112. <https://doi.org/10.1111/j.1365-246X.1997.tb00939.x>

1. **Conrad, C.P.**, and B.H. Hager (1995), The elastic response of the earth to interannual variations in Antarctic precipitation, *Geophysical Research Letters*, 22, 3183-3186.
<https://doi.org/10.1029/95GL03176>

Conrad research group members: ¹ graduate student; ² postdoctoral scholar; ³ undergraduate student

Other Publications (opinions and educational)

10. **Cramer², F.**, G.E. Shephard, and **C.P. Conrad** (2019), Plate Tectonics, in *Reference Module in Earth Systems and Environmental Sciences*, Elsevier. <https://doi.org/10.1016/B798-0-12-409548-9.12393-0>
9. Gaina, C., C. Mac Niocaill, **C. P. Conrad**, B. Steinberger, and H. H. Svensen (2019), Linking plate tectonics and volcanism to deep earth dynamics – A tribute to Trond H. Torsvik, *Tectonophysics*, 760, 1-3. <https://doi.org/10.1016/j.tecto.2019.03.002>
8. **Conrad, C. P.** (2017), How good were the old forecasts of sea level rise?, in *EGU Geodynamics Blog*, edited by G. Shephard. <http://blogs.egu.eu/divisions/gd/2017/09/13/modern-day-sea-level-rise/>
7. Sames, B., M. Wagemann, and **C.P. Conrad** (2016), Why do Cretaceous sea-level changes matter in today's global change discussions?, *IGCP 609 Popular Scientific Overview*.
<http://www.univie.ac.at/igcp609/index-Dateien/page0010.html>
6. **Conrad, C. P.** (2015), How climate influences sea-floor topography, *Science*, 347, 1204-1205.
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5. **Conrad, C. P.** (2015), Plate Tectonics, in *Discoveries in Modern Science: Exploration, Invention, Technology*, edited by J. Trefil, pp. 870-880, Macmillan Reference USA, Farmington Hills, MI.
4. **Conrad, C. P.**, B. Steinberger, and T. H. Torsvik (2013), Conrad et al. reply, *Nature*, 503, E4-E4.
<https://doi.org/10.1038/nature12793>
3. **Conrad, C.P.** (2012), Review of *A Student's Guide to Geophysical Equations* by W. Lowrie, *Geological Magazine*, 149, 1132-1133. <https://doi.org/10.1017/S0016756812000143>
2. Dalton, C.A., **C.P Conrad**, and A.M. Trehu (2011), What is the lithosphere-asthenosphere boundary?, *EOS, Trans. American Geophysical Union*, 92, 481. <https://doi.org/10.1029/2011EO510009>
1. **Conrad, C.P.** (2000), Effects of lithospheric strength on convection in the Earth's mantle, *PhD Thesis*, Massachusetts Institute of Technology, Cambridge, MA.

Invited Keynote Presentations

31. *GeoOnsdag (Geo-Wednesday)*, Science Library, University of Oslo, Oslo, Norway, Jan. 2020.
30. *American Geophysical Union Fall Meeting*, Centennial session, San Francisco, CA, Dec. 2019.
29. *American Geophysical Union Fall Meeting*, Volcanology session, San Francisco, CA, Dec. 2019.
28. *Arktisk Dag (Arctic Day)*, Nordområdeutvalg, University of Oslo, Norway, October 2019.
27. *Norsk Geofysisk Forening Årsmøte (Norwegian Geophys. Soc. Mtg.)*, Oslo, Norway, Oct. 2019.
26. *Geosciences Education for Teachers (GIFT)*, EGU Meeting in Vienna, Austria, April 2018.
25. *Doctoral Training on Internal Earth (PhD School)*, Les Houches, France, October 2018.
24. *SFF GEO-Center Meeting*, Tromsø, Norway, June 2018.
23. *CEED – No longer a teenager*, Oslo, Norway, Feb. 2018.
22. *Conceiving Earth Evolution and Dynamics*, Tenerife, Spain, Oct. 2017.
21. *4D-Deep Earth Science Meeting*, Noordwijk, Netherlands, Sept. 2017.
20. *Conceiving Earth Evolution and Dynamics*, Oslo, Norway, Sept. 2017.
19. *NetherMod 2017 Conference*, Utrecht, Netherlands, Aug. 2017.
18. *Deep Carbon Observatory Moscow Workshop*, Moscow, Russia, May 2017.
17. *American Geophysical Union Fall Meeting*, Tectonophysics session, San Francisco, Dec. 2015.
16. *IGCP648 Hawaii Field Symposium*, Kailua-Kona, HI, Dec. 2015.
15. *CIDER Topography Workshop*, Boulder, CO, April 2015.
14. *IGCP609 & Earthtime-EU Sequence Stratigr. Workshop*, Bucharest, Romania, Aug. 2014.
13. *American Geophysical Union Fall Meeting*, Deep Interior session, San Francisco, CA, Dec. 2012.
12. *CIG Workshop: Lithosphere Deformation & Mantle Convection*, Davis, CA, July 2012.
11. *Earthscape Institute: 'Lithosphere-Asthenosphere Boundary'*, Portland, OR, Sept. 2011.
10. *Gordon Research Conference: 'Interior of the Earth'*, South Hadley, MA, June 2011.
9. *24th Kongsberg Seminar: 'Earth Systems Challenges'*, Kongsberg, Norway, May 2011.
8. *Voodoo Tectonics: From Crust to Core*, Oslo, Norway, August 2010.
7. *Geodynamics of the Lithosphere and Deep Earth*, San Diego, CA July 2010.
6. *Slab Retreat Workshop*, Melbourne, Australia, July 2009.

5. **American Geophysical Union Fall Meeting**, Union session, San Francisco, CA, Dec. 2008.
4. **American Geophysical Union Fall Meeting**, Deep Interior session, San Francisco, CA, Dec. 2007.
3. **American Geophysical Union Fall Meeting**, Union session, San Francisco, CA, Dec. 2007.
2. **Western Pacific Geophysics Meeting**, Tectonophysics session, Honolulu, HI, Aug. 2004.
1. **American Geophysical Union Spring Meeting**, Geodesy session, Baltimore, MD, May 1996.

Invited Department Seminars

48. **EastGRIP field station**, Greenland Ice Sheet, Greenland, June 2019.
47. **University of Oslo**, Department of Geosciences, University of Oslo, Norway, November 2018.
46. **University of Oslo**, Centre for Earth Evolution & Dynamics, Oslo, Norway, April 2018.
45. **University of Kiel**, Institute of Geophysics, Kiel, Germany, January 2018.
44. **ETH Zürich**, Institute of Geophysics, Zürich, Switzerland, November 2016.
43. **University of Oslo**, Department of Geosciences, Oslo, Norway, October 2016.
42. **University of Oslo**, Centre for Earth Evolution & Dynamics, Oslo, Norway, April 2015.
41. **Tulane University**, Dept. Earth & Environmental Sciences, New Orleans, LA, Feb. 2015.
40. **University of Hawaii**, Dept. of Geology & Geophysics, Honolulu, HI, Feb. 2015.
39. **Yale University**, Geology and Geophysics, New Haven, CT, November 2014.
38. **Stanford University**, Geological and Environmental Sciences, Palo Alto, CA, May 2013.
37. **University of Hawaii**, Plate Tectonics Podcast Series, Honolulu, HI, April 2012.
36. **University of Nevada Las Vegas**, Department of Geoscience, Las Vegas, NV, January 2012.
35. **University of Oslo**, Physics of Geological Processes, Oslo, Norway, April 2011.
34. **Università degli Studi «Roma Tre»**, Dip. di Scienze Geologiche, Rome, Italy, Nov. 2010.
33. **University of Southern California**, Dept. Earth Sciences, Los Angeles, CA, July 2010.
32. **University of Hawaii**, Dept. of Geology & Geophysics, Honolulu, HI, April 2010.
31. **University of Nevada Las Vegas**, Department of Geoscience, Las Vegas, NV, April 2009.
30. **University of Maryland**, Department of Geology, College Park, MD, April 2008.
29. **SUNY Binghamton**, Dept. Geological & Environmental Sci., Binghamton, NY, Feb. 2008.
28. **University of Hawaii**, Dept. of Geology & Geophysics, Honolulu, HI, August 2007.
27. **Université Rennes**, Géosciences Rennes, Rennes, France, June 2007.
26. **Université Montpellier**, Géosciences Montpellier, Montpellier, France, May 2007.
25. **University of Chicago**, Dept. of Geophysical Sciences, Chicago, IL, Jan. 2007.
24. **Carnegie Institute in Washington**, Dept. of Terrestrial Magnetism, Wash., DC, Dec. 2006.
23. **Brown University**, Department of Geological Sciences, Providence, RI, Nov. 2006.
22. **Université Montpellier**, Lab. for Lithosphere Dynamics, Montpellier, France, Nov. 2005.
21. **Uppsala University**, Department of Earth Sciences, Uppsala, Sweden, June 2005.
20. **Virginia Tech. University**, Department of Geosciences, Blacksburg, VA, April 2005.
19. **Boston University**, Department of Earth Sciences, Boston, MA, March 2005.
18. **Johns Hopkins University**, Dept. Earth & Planetary Sciences, Baltimore, MD, March 2004.
17. **University of Maryland**, Department of Geology, College Park, MD, Jan. 2004.
16. **NASA Goddard Space Flight Center**, Joint Cen. Earth Sys. Tech., Greenbelt, MD, Jan. 2004.
15. **University of Copenhagen**, Danish Lithosphere Center, Copenhagen, Denmark, Sept. 2003.
14. **Cornell University**, Department of Earth and Planetary Sciences, Ithaca, NY, May 2003.
13. **New Mexico State University**, Department of Physics, Las Cruces, NM, March 2003.
12. **Carnegie Institute in Washington**, Dept. of Terrestrial Magnetism, Wash., DC, Oct. 2002.
11. **Pennsylvania State University**, Department of Geosciences, State College, PA, Sept. 2002.
10. **University of Washington**, Department of Earth & Space Sciences, Seattle, WA, June 2002.
9. **University of Copenhagen**, Danish Lithosphere Center, Copenhagen, Denmark, Nov. 2001.
8. **University of Michigan**, Department of Geological Sciences, Ann Arbor, MI, April 2001.
7. **NASA Goddard Space Flight Center**, Lab. Terrestrial Physics, Greenbelt, MD, Oct. 2000.
6. **Scripps Inst. Oceanography**, Inst. Geophys. & Planetary Physics, La Jolla, CA, June 2000.
5. **University of Colorado**, Department of Physics, Boulder, CO, Feb. 2000.
4. **California Institute of Technology**, Seismological Laboratory, Pasadena, CA, Feb. 2000.
3. **Temple University**, Departments of Math and Geology, Philadelphia, PA, Nov. 1999.
2. **University of Colorado**, Department of Geology, Boulder, CO, Dec. 1998.
1. **Carnegie Institute in Washington**, Dept. of Terrestrial Magnetism, Wash., DC, Nov. 1998.

Conference Abstracts and Presentations

213. **A. Kiraly²**, **C.P. Conrad**, and L. Hansen, “Evolving viscous anisotropy in the upper mantle and its geodynamic implications”, *AGU Fall Meeting*, virtual online, Dec. 2020.
212. **M.F.M. Weerdesteijn¹**, **C.P. Conrad**, J. Naliboff, and K. Selway, “An Open-source 3D Glacial Isostatic Adjustment Modeling Code using ASPECT”, *AGU Fall Meeting*, virtual online, Dec. 2020.
211. **B. Heyn²**, **C.P. Conrad**, and K. Selway, “Numerical constraints on heat flux variations and lithospheric thinning associated with passage of the Iceland plume beneath Greenland”, *AGU Fall Meeting*, virtual online, Dec. 2020.
210. **F. Ramirez¹**, K. Selway, and **C.P. Conrad**, “Integrating magnetotelluric and seismic geophysical observations to improve upper mantle viscosity estimates beneath polar regions”, *AGU Fall Meeting*, virtual online, Dec. 2020.
209. K. Selway, **C.P. Conrad**, **F. Ramirez¹**, N.B. Karlsson, **M. Weerdesteijn¹**, and **B.H. Heyn²**, “How magnetotellurics can aid cryosphere studies: mantle rheology, GIA, surface heat flow, and basal melting”, *AGU Fall Meeting*, virtual online, Dec. 2020.
208. **K.S. Karlsen¹**, **C.P. Conrad**, and V. Magni, “Deep water cycling and sea level change since the breakup of Pangea”, *AGU Fall Meeting*, virtual online, Dec. 2020.
207. C. Gaina, V. Barletta, **C. Conrad**, J. Ebbing, R. Forsberg, F. Ferraccioli, B. Heincke, S. Lebedev, W. van der Wal, “Interplay of cryosphere, solid earth and dynamic mantle in the Arctic”, *EO for Polar Science Workshop*, Copenhagen, Denmark, October 2020.
206. K. Selway, **C.P. Conrad**, **F. Ramirez¹**, and **M. Weerdesteijn¹**, “How can geophysical imaging help constrain mantle viscosity to improve glacial isostatic adjustment models?”, *9th SCAR Open Science Conference*, Hobart, Australia, virtual online, August 2020.
205. **C.P. Conrad**, K. Selway, **M. Weerdesteijn¹**, S. Smith-Johnsen, K.H. Nisancioglu, and N.B. Karlsson, “Magnetotelluric Constraints on Upper Mantle Viscosity Structure and Basal Melt Beneath the Greenland Ice Sheet”, *EGU General Assembly*, virtual online, May 2020.
204. **R. Hartmann¹**, J. Ebbing, and **C.P. Conrad**, “A Multiple 1D Earth Approach (MIDEA) to account for lateral viscosity variations in solutions of the sea level equation: An application for glacial isostatic adjustment by Antarctic deglaciation”, *EGU General Assembly*, virtual online, May 2020.
203. **F. Ramirez¹**, K. Selway, and **C.P. Conrad**, “Using magnetotelluric and seismic geophysical observations to infer viscosity for Glacial Isostatic Adjustment calculations”, *EGU General Assembly*, virtual online, May 2020.
202. **B. Heyn¹**, **C.P. Conrad**, and R. Trønnes, “How thermochemical piles initiate plumes at their edges”, *EGU General Assembly*, virtual online, May 2020.
201. **M. Weerdesteijn¹**, **C.P. Conrad**, J. Naliboff, and K. Selway, “Developing an open-source 3D glacial isostatic adjustment modeling code using ASPECT”, *EGU General Assembly*, virtual online, May 2020.
200. **A. Kiraly²**, **C.P. Conrad**, L. Hansen, and M. Fraters, “The formation of viscous anisotropy in the asthenosphere and its effect on plate tectonics”, *EGU General Assembly*, virtual online, May 2020.
199. M. Domeier, **C.P. Conrad**, K. Selway, and **B.H. Heyn¹**, “A link between seamount volcanism and structures of the deep Earth”, *36th International Geological Congress*, Delhi, India (meeting postponed), March 2020.
198. **F. Ramirez¹**, K. Selway, and **C.P. Conrad**, “Relationship between magnetotelluric and seismic geophysical observations and mantle viscosity”, *Nordic Geological Winter Meeting*, Oslo, Norway, Jan. 2020.
197. **C.P. Conrad**, K. Selway, **M. Weerdesteijn¹**, S. Smith-Johnsen, K.H. Nisancioglu, and N.B. Karlsson, “Magnetotelluric constraints on upper mantle viscosity structure and basal melt beneath the Greenland ice sheet”, *Nordic Geological Winter Meeting*, Oslo, Norway, Jan. 2020.
196. **C.P. Conrad**, M. Domeier, K. Selway, and **B.H. Heyn¹**, “A link between seamount volcanism and thermochemical piles in the deepest mantle”, *Nordic Geological Winter Meeting*, Oslo, Norway, Jan. 2020.
195. **M. Weerdesteijn¹**, **C.P. Conrad**, K. Selway, **F. Ramirez¹**, “Magnetotelluric Analysis for Greenland and Postglacial Isostatic Evolution (The MAGPIE Project)”, *Nordic Geological Winter Meeting*, Oslo, Norway, Jan. 2020.
194. **C.P. Conrad**, “Patterns of mantle convection and plate tectonics”, *AGU Fall Meeting*, San Francisco, CA, Dec. 2019. (INVITED to AGU Centennial Session)
193. **C.P. Conrad**, M. Domeier, K. Selway, and **B.H. Heyn¹**, “A link between seamount volcanism and thermochemical piles in the deepest mantle”, *AGU Fall Meeting*, San Francisco, CA, Dec. 2019. (INVITED)
192. **C.P. Conrad**, K. Selway, **M. Weerdesteijn¹**, S. Smith-Johnsen, K.H. Nisancioglu, and N.B. Karlsson, “Magnetotelluric constraints on upper mantle viscosity structure and basal melt beneath the Greenland ice sheet”, *AGU Fall Meeting*, San Francisco, CA, Dec. 2019.
191. L. van Dam, C. Kincaid, **F. Cramer²**, **C.P. Conrad**, R.A. Polkalny, and P.J. Tackley, “Laboratory and numerical models of constraints on the birth, life, and death of mantle plumes near mid-ocean ridges”, *AGU Fall Meeting*, San Francisco, CA, Dec. 2019.
190. **M. Weerdesteijn¹**, K. Selway, and **C.P. Conrad**, “Magnetotelluric Analysis for Greenland and Postglacial Isostatic Evolution (MAGPIE)”, *Glacial Isostatic Adjustment, Ice Sheets, and Sea-level Change – Observations, Analysis, and Modelling workshop*, Ottawa, Canada, Sept. 2019.

189. **A. Kiraly**², **C.P. Conrad**, and L. Hansen, “Anisotropic viscosity of olivine: The relationship between texture parameters and rheological behavior”, *Ada Lovelace Workshop on Modelling Mantle and Lithosphere Dynamics*, Sienna, Italy, Aug. 2019.
188. **B. Heyn**¹, **C.P. Conrad**, and R. Trønnes, “Periodic plume generation at the edges of thermochemical piles”, *Ada Lovelace Workshop on Modelling Mantle and Lithosphere Dynamics*, Sienna, Italy, Aug. 2019.
187. **B. Heyn**¹, **C.P. Conrad**, and R. Trønnes, “Core-mantle boundary topography and its relation to lowermost mantle viscosity structure”, *Ada Lovelace Workshop on Modelling Mantle and Lithosphere Dynamics*, Sienna, Italy, Aug. 2019.
186. **M. Weerdesteijn**¹, **C.P. Conrad**, K. Selway, and **F. Ramirez**², “MAGPIE: Magnetotelluric Analysis for Greenland and Postglacial Isostatic Evolution”, *2019 Glacial Isostatic Adjustment (GIA) Training School*, Gävle, Sweden, Aug. 2019.
185. **B. Heyn**¹, **C.P. Conrad**, and R. Trønnes, “What core-mantle boundary topography can tell us about plume locations and the viscosity and density structure of thermochemical piles”, *EGU General Assembly*, Vienna, Austria, Apr. 2019.
184. M. Domeier, T.H. Torsvik, **C.P. Conrad**, B. Steinberger, P.V. Doubrovine, R.G. Trønnes, S. Werner, G.E. Shephard, and B. Robert, “On the stability of Earth’s degree 2 mantle structures”, *EGU General Assembly*, Vienna, Austria, Apr. 2019.
183. **K.S. Karlsen**¹, **C.P. Conrad**, and V. Magni, “Deep water cycling and sea level change since the breakup of Pangea”, *EGU General Assembly*, Vienna, Austria, Apr. 2019.
182. **Á. Kiraly**², **C.P. Conrad**, M. Domeier, and L.H. Hansen, “Does anisotropic mantle viscosity impede changes in plate motions”, *EGU General Assembly*, Vienna, Austria, Apr. 2019.
181. **K.S. Karlsen**¹, **C.P. Conrad**, and V. Magni, “Deep water cycling and sea level change since the breakup of Pangea”, *DEEP General Assembly*, Sommarøy, Norway, Mar. 2019.
180. **B. Heyn**¹, **C.P. Conrad**, and R. Trønnes, “Linking surface volcanism and deep Earth: Piles, plumes, and dynamic topography”, *DEEP General Assembly*, Sommarøy, Norway, Mar. 2019.
179. M. Domeier, **C.P. Conrad**, and K. Selway, “A link between seamount volcanism and structures of the deep Earth”, *AGU Fall Meeting*, Washington, D.C., Dec. 2018.
178. A. Ghosh, J. Paul, and **C.P. Conrad**, “The relation between tractions and strain rate at the base of the lithosphere: Key to understanding cratonic stability”, *AGU Fall Meeting*, Washington, D.C., Dec. 2018.
177. P. Wessel and **C.P. Conrad**, “Absolute plate and plume motions and implications for true polar wander”, *AGU Fall Meeting*, Washington, D.C., Dec. 2018.
176. **R. Hartman**¹, J. Ebbing, and **C.P. Conrad**, “Influence of upper mantle viscosity variations on sea level change and GIA - A case study for Antarctic deglaciation models”, *German-Swiss Geodynamics Workshop*, Kiel, Germany, August 2018.
175. **K.S. Karlsen**¹, **C.P. Conrad**, and V. Magni, “Deep water cycling and sea level changes on a supercontinental time scale”, *German-Swiss Geodynamics Workshop*, Kiel, Germany, August 2018.
174. **A. Kiraly**², **C.P. Conrad**, and L. Hansen, “Geodynamic consequences of anisotropic mantle viscosity”, *German-Swiss Geodynamics Workshop*, Kiel, Germany, August 2018.
173. **C.P. Conrad**, and M. Domeier, “Tracing the edges of the LLSVPs in the spatial distribution of seamount volcanism”, *EGU General Assembly*, Vienna, Austria, April 2018.
172. **K. S. Karlsen**¹, **C.P. Conrad**, and V. Magni, “Deep water recycling and cyclic sea level change on a supercontinental time scale”, *EGU General Assembly*, Vienna, Austria, April 2018.
171. **S. Uppalapati**¹, T. Rolf, **F. Crameri**², **C.P. Conrad**, and S.C. Werner, “How Venus’ young surface came to be: New insights from 2D and 3D modelling”, *EGU General Assembly*, Vienna, Austria, April 2018.
170. **A. Kiraly**², **C.P. Conrad**, and L. Hansen, “Geodynamic consequences of anisotropic mantle viscosity”, *EGU General Assembly*, Vienna, Austria, April 2018.
169. **B.H. Heyn**¹, **C.P. Conrad**, and R.G. Trønnes, “Stabilization of thermochemical piles by compositional viscosity contrasts”, *EGU General Assembly*, Vienna, Austria, April 2018.
168. **F. Crameri**², **C.P. Conrad**, L. Montesi, and C. Lithgow-Bertelloni, “‘Ocean-Plate Tectonics’: The importance of the mantle framework”, *Earth dynamics and the development of plate tectonics*, London, UK, Mar. 2018.
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164. **C.P. Conrad**, and M. Domeier, “Tracing the edges of the LLSVPs in the spatial distribution of seamount volcanism”, *Conceiving Earth Evolution and Dynamics*, Tenerife, Spain, Oct. 2017.
163. **C.P. Conrad**, B. Steinberger, and T.H. Torsvik, “Tectonic reconstructions of dynamic topography and sea level”, *Conceiving Earth Evolution and Dynamics*, Tenerife, Spain, Oct. 2017.
162. **C.P. Conrad**, K. Selway, M.M. Hirschmann, **M.D. Ballmer**², and P. Wessel, “Volumes and patterns of asthenospheric melt inferred from the space-time distribution of seamounts”, *Conceiving Earth Evolution and Dynamics*, Tenerife, Spain, Oct. 2017.

161. **C.P. Conrad, C.E. Watkins¹**, B. Steinberger, and T.H. Torsvik, “Misshapen Earth: Inferring dynamic topography from bathymetry and plate motions”, *Nethermod 2017*, Utrecht, Netherlands, Aug. 2017.
160. **C.P. Conrad**, K. Selway, M.H. Hirschmann, **M.D. Ballmer²**, and P. Wessel, “Constraints on volumes and patterns of asthenospheric melt from the space-time distribution of seamounts”, *Nethermod 2017*, Putten, Netherlands, Aug. 2017.
159. S. Dangendorf, M. Marcos, G. Wöppelmann, **C.P. Conrad**, T. Frederikse, and R. Riva, “A reconciled estimate of twentieth century global mean sea-level rise”, *Regional Sea Level Changes and Coastal Impacts*, New York, NY, July 2017.
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157. **C.P. Conrad**, “The deep carbon cycle and mantle-lithosphere dynamics: Looking backward from today”, *Deep Carbon Observatory Workshop*, Moscow, Russia, May 2017.
156. **H.F.R. Togia¹, C.P. Conrad**, P. Wessel, and G. Ito, “New constraints on temporal variations in Hawaiian plume buoyancy flux”, *GSA 2017 Cordilleran Section Meeting*, Honolulu, HI, May 2017.
155. P. Wessel, and **C.P. Conrad**, “Assessing Pacific absolute plate and plume motions”, *GSA 2017 Cordilleran Section Meeting*, Honolulu, HI, May 2017.
154. G. Boudinier, P. Wessel, and **C.P. Conrad**, “Plume-spotting: Deriving the absolute motion of hotspots and plates”, *GSA 2017 Cordilleran Section Meeting*, Honolulu, HI, May 2017.
153. **C.P. Conrad**, B. Steinberger, and T.H. Torsvik, “Sea Level Change due to Time-Dependent Long-Wavelength Dynamic Topography Inferred from Plate Tectonic Reconstructions”, *EGU General Assembly*, Vienna, Austria, April 2017.
152. **C.P. Conrad** and L. Hansen “Interplay between Tectonic Plate Motions, Anisotropic Viscosity, and the Development of Rock Fabrics in the Asthenosphere”, *EGU General Assembly*, Vienna, Austria, April 2017.
151. S. Dangendorf, M. Marcos, G. Wöppelmann, **C.P. Conrad**, T. Frederikse, and R. Riva, “A reconciled estimate of 20th century global mean sea-level rise”, *EGU General Assembly*, Vienna, Austria, April 2017.
150. B. Steinberger and **C.P. Conrad**, “Are Superplumes a Myth?”, *EGU General Assembly*, Vienna, Austria, April 2017.
149. B. Steinberger and **C.P. Conrad**, “Are Superplumes a Myth?”, *Deutschen Geophysikalischen Gesellschaft*, Potsdam, Germany, March 2017.
148. **C.P. Conrad**, B. Steinberger, and T.H. Torsvik, “Inferring the time history of long-wavelength dynamic topography using tectonic reconstructions and global mantle flow models”, *AGU Fall Meeting*, San Fran., CA, Dec. 2016.
147. **C. E. Watkins¹** and **C.P. Conrad**, “Constraints on dynamic topography from asymmetric subsidence across seafloor unperturbed by volcanism surrounding the Mid-Atlantic Ridge and East Pacific Rise”, *AGU Fall Meeting*, San Fran., CA, Dec. 2016.
146. G.P. Boudinier, P. Wessel, and **C.P. Conrad**, “Modeling absolute plate and plume motions”, *AGU Fall Meeting*, San Fran., CA, Dec. 2016.
145. **C.P. Conrad**, “Water Planet”, *CEED Julebord Seminar*, Oslo, Norway, Dec. 2016.
144. **C.P. Conrad**, “Earth Modeling”, *CEED Julebord Seminar*, Oslo, Norway, Dec. 2016.
143. **C.P. Conrad, M.D. Ballmer²**, N. Harmon, and E.I. Smith, “The shear-driven upwelling: Linking intraplate volcanism to global mantle flow”, *CEED-Arhus Seminar*, Oslo, Norway, Aug. 2016.
142. **C.P. Conrad** and L. Hansen, “Interplay between tectonic plate motions, anisotropy viscosity, and the development of rock fabrics in the asthenosphere”, *AGU Fall Meeting*, San Fran., CA, Dec. 2015. (INVITED)
141. **C.P. Conrad, E. Veit¹**, and **S.I. Natarov¹**, “The impact of groundwater depletion on spatial variations in sea level change during the past century”, *AGU Fall Meeting*, San Fran., CA, Dec. 2015.
140. T.W. Becker, A. Schaeffer, S. Lebedev, and **C.P. Conrad**, “Implications of a comprehensive, spreading-aligned plate motion reference frame in light of seismic anisotropy and global trench migration”, *AGU Fall Meeting*, San Fran., CA, Dec. 2015.
139. **C. E. Watkins¹** and **C.P. Conrad**, “Bathymetric constraints on dynamic topography and mantle flow from asymmetric subsidence across the mid-ocean ridges”, *AGU Fall Meeting*, San Fran., CA, Dec. 2015.
138. **C.P. Conrad**, B. Steinberger, and T. Torsvik, “Inferring the time-dependence of long-wavelength dynamic topography from plate tectonic reconstructions”, *IGCP 648 Hawaii Field Symposium*, Kailua-Kona, HI, Dec., 2015.
137. L.N. Hansen, **C.P. Conrad**, J.M. Warren, and D.L. Kohlstedt, “Anisotropic viscosity of olivine aggregates: A laboratory, field, and numerical approach”, *Japan Geoscience Union Meeting*, Chiba, Japan, May, 2015.
136. **M.D. Ballmer², C.P. Conrad**, N. Harmon, and E.I. Smith, “The influence of mantle flow on mid-ocean ridge melting and off-axis volcanism”, *Gordon Research Conference ‘Interior of the Earth’*, South Hadley, MA, June 2015.
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134. **C.P. Conrad**, B. Steinberger, and T. Torsvik, “Inferring the time-dependence of long-wavelength dynamic topography from plate tectonic reconstructions”, *CIDER Topography Workshop*, Boulder, CO, April, 2015. (INVITED)
133. T.W. Becker, **C.P. Conrad**, A.J. Schaeffer, and S. Lebedev, “Origin of azimuthal seismic anisotropy in oceanic plates and mantle”, *EGU General Assembly*, Vienna, Austria, April 2015.
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131. L.N. Hansen, **C.P. Conrad**, J.M. Warren, **S. Natarov**¹, and D.L. Kohlstedt, “Development of anisotropic fabric and associated anisotropic viscosity within lithospheric and asthenospheric shear zones”, *AGU Fall Meeting*, San Fran., CA, Dec. 2014.
130. **C.P. Conrad**, B. Steinberger, and T. Torsvik, “Dynamic topography and sea level change inferred from dipole and quadrupole moments of plate tectonic reconstructions”, *AGU Fall Meeting*, San Fran., CA, Dec. 2014.
129. **C.P. Conrad**, “The solid Earth’s influence on sea level”, *IGCP609 & Earthtime-EU Sequence Stratigraphy Workshop*, Bucharest, Romania, Aug. 2014. (INVITED)
128. **C.P. Conrad**, B. Steinberger, and T. Torsvik, “Dynamic topography and sea level above stable antipodal mantle upwellings”, *CIG Mantle & Lithosphere Dynamics Workshop*, Banff, Canada, May 2014.
127. **H. Togia**¹, and **C.P. Conrad**, “Tracking temporal variations in Hawaiian plume flux using evolving swell topography”, *AGU Fall Meeting*, DI21A-2250, San Fran., CA, Dec. 2013.
126. **C.P. Conrad**, **M.D. Ballmer**², P. Wessel, and M.M Hirschmann, “Space-Time Distributions of Seamounts on the Ocean Floor: Constraints on Volumes and Patterns of Asthenospheric Melting”, *AGU Fall Meeting*, DI33B-2242, San Fran., CA, Dec. 2013.
125. **M.D. Ballmer**², E.I. Smith, **C.P. Conrad**, and N. Harmon, “Non-hotspot volcano chains produced by migration of shear-driven upwelling toward the East Pacific Rise”, *AGU Fall Meeting*, OS42A-08, San Fran., CA, Dec. 2013.
124. **M.D. Ballmer**², E.I. Smith, **C.P. Conrad**, and R.L. Johnsen, “Intraplate volcanism at the edges of the Colorado Plateau sustained by shear-driven upwelling”, *EGU General Assembly*, Vienna, Austria, April 2013.
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122. **M.D. Ballmer**², **C.P. Conrad**, E.I. Smith, and R.L. Johnsen, “Intraplate volcanism at the edges of the Colorado Plateau sustained by shear-driven upwelling”, *AGU Fall Meeting*, DI21A-2348, San Fran., CA, Dec. 2012.
121. **C.P. Conrad**, **S. Natarov**¹, L. Hansen, and **J. van Summeren**², “Modulation of plate motions by viscosity anisotropy in the asthenosphere”, *AGU Fall Meeting*, DI24A-01, San Fran., CA, Dec. 2012. (INVITED)
120. **C.P. Conrad**, B. Steinberger, and T. Torsvik, “Past mantle dynamics revealed by net characteristics of surface plate motions”, *AGU Fall Meeting*, T33J-02, San Fran., CA, Dec. 2012.
119. **J. van Summeren**², **C.P. Conrad**, and M.D. Behn, “Grain size dependent viscosity in the continental asthenosphere: Implications for craton stability”, *AGU Fall Meeting*, T33G-2740, San Fran., CA, Dec. 2012.
118. F. Funiciello, F. Corbi, A. Heuret, D. Presti, C. Faccenna, S. Lallemand, Y. van Dinther, T. Gerya, L.A. Dalguer, L. Sandri, W. Marzocchi, C. Piromallo, M. Moroni, P.M. Mai, G. Ranalli, and **C.P. Conrad**, “Subduction and interplate seismicity. What have we learnt with the EURYI project?”, *AGU Fall Meeting*, T13E-2664, San Fran., CA, Dec. 2012.
117. **J. van Summeren**², **C.P. Conrad**, and C. Lithgow-Bertelloni, “The importance of a global asthenosphere to patterns of plate motions”, *CIG Workshop on Lithosphere Deformation and Mantle Convection*, Davis, CA, July 2012.
116. **C.P. Conrad**, **M. Ballmer**², L. Husson, E.I. Smith, and N. Harmon, “Horizontal plumes and shear-driven upwelling in the South Pacific”, *CIG Workshop on Lithosphere Deformation and Mantle Convection*, Davis, CA, July 2012. (INVITED)
115. L. Husson and **C.P. Conrad**, “Mountain belts as dynamometers”, *34th International Geological Conference*, Brisbane, Australia, Aug. 2012.
114. **M. Ballmer**², **C.P. Conrad**, and E.I. Smith, “Basaltic continental intraplate volcanism as sustained by shear-driven upwelling”, *EGU General Assembly*, Vienna, Austria, April 2012.
113. **M. Ballmer**², **C.P. Conrad**, N. Harmon, and E.I. Smith, “Off-axis volcanism as fueled by shear-driven upwelling near the East Pacific Rise”, *EGU General Assembly*, Vienna, Austria, April 2012.
112. F. Funiciello, F. Corbi, A. Heuret, Y. van Dinther, D. Presti, L. Sandri, W. Marzocchi, M. Moroni, T. Gerya, M. May, L. Dalguer, C. Piromallo, S. Lallemand, **C.P. Conrad**, V. Acocella, G. Ranalli, and C. Faccenna, “Five years of EURYI project on subduction and interplate seismicity: What have we learnt?”, *EGU General Assembly*, Vienna, Austria, April 2012.
111. A. Heuret, **C.P. Conrad**, F. Funiciello, S. Lallemand, and L. Sandri, “Relation between subduction megathrust earthquakes, trench sediment thickness and upper plate strain”, *EGU General Assembly*, Vienna, Austria, April 2012.

110. **M. Ballmer**², **C.P. Conrad**, N. Harmon, T.A. Bianco, and E.I. Smith, “3-D patterns and volumes of intraplate volcanism from convective instability: comparison and interaction of shear-driven upwelling and small-scale convection”, *AGU Fall Meeting*, T11D-03, San Fran., CA, Dec. 2011.
109. **T.A. Bianco**², **C.P. Conrad**, E.I. Smith, and P. Wessel, “Weak intraplate volcanism caused by shear-driven upwelling”, *AGU Fall Meeting*, T43K-05, San Fran., CA, Dec. 2011.
108. **J. van Summeren**², E. Gaidos, and **C.P. Conrad**, “Feasibility of magnetodynamos in hot exo-Earths”, *AGU Fall Meeting*, P24C-03, San Fran., CA, Dec. 2011.
107. **C.P. Conrad**, **J. van Summeren**², and, C. Lithgow-Bertelloni, “Influence on plate motions of lateral variations in upper and lower mantle viscosity”, *AGU Fall Meeting*, T12B-02, San Fran., CA, Dec. 2011.
106. A. Heuret, **C.P. Conrad**, F. Funiciello, and S. Lallemand, “Relation between subduction megathrust earthquakes, sediment thickness at trench, and plate coupling”, *AGU Fall Meeting*, DI31A-2161, San Fran., CA, Dec. 2011.
105. C. Grigne, M. Combes, S. Le Yaouanq, L. Husson, **C.P. Conrad**, and C. Tisseau, “Thermal evolution of the Earth from a plate tectonics point of view”, *AGU Fall Meeting*, U44A-05, San Fran., CA, Dec. 2011.
104. F. Funiciello, and the EURYI team (F. Corbi, A. Heuret, Y. van Dinther, D. Presti, L. Sandri, W. Marzocchi, M. Moroni, T. Gerya, M. Mai, L. Dalguer, C. Piromallo, S. Lallemand, **C.P. Conrad**, C. Faccenna), “Subduction and interplate seismicity: new insights from statistical analysis of natural data and analog-numerical modeling”, *AGU Fall Meeting*, T21D-03, San Fran., CA, Dec. 2011.
103. Houser, C., Q. Williams, **J. van Summeren**², and **C.P. Conrad**, “Seismic evidence connecting western Pacific volcanism to thermo-chemical structures in the core-mantle boundary region,” *Workshop on ‘Ocean Mantle Dynamics: From Spreading Center to Subduction Zone’*, Univ. Tokyo, Chiba, Japan, Oct. 2011.
102. **S. Natarov**¹, and **C.P. Conrad**, “Constraining Poiseuille flow in the asthenosphere using the depth-dependence of azimuthal seismic anisotropy”, *Earthscope Institute on the ‘Lithosphere-Asthenosphere Boundary’*, Portland, OR, Sept. 2011.
101. **C.P. Conrad**, **T. Bianco**², E. Smith, and P. Wessel, “Intraplate volcanism induced by ‘shear-driven upwelling’ beneath the lithosphere-asthenosphere boundary”, *Earthscope Institute on the ‘Lithosphere-Asthenosphere Boundary’*, Portland, OR, September 2011. (INVITED)
100. **J. van Summeren**², **C.P. Conrad**, and C. Lithgow-Bertelloni, “The importance of a global asthenosphere to patterns of plate motions”, *Earthscope Institute on the ‘Lithosphere-Asthenosphere Boundary’*, Portland, OR, Sept. 2011.
99. **J. van Summeren**², E. Gaidos, and **C.P. Conrad**, “Feasibility of plate tectonics on rocky exoplanets”, *Gordon Research Conference ‘Interior of the Earth’*, South Hadley, MA, June 2011.
98. **C.P. Conrad**, “Sea level and topographic change: The role of mantle convection”, *Gordon Research Conference on the ‘Interior of the Earth’*, South Hadley, MA, June 2011. (INVITED)
97. **S. Natarov**¹, and **C.P. Conrad**, “Constraining Poiseuille flow in the asthenosphere using the depth-dependence of azimuthal seismic anisotropy”, *Gordon Research Conference ‘Interior of the Earth’*, South Hadley, MA, June 2011.
96. **C.P. Conrad**, **T. Bianco**², E. Smith, and P. Wessel, “Patterns of intraplate volcanism controlled by asthenospheric shear”, *Gordon Research Conf. ‘Interior of the Earth’*, South Hadley, MA, June 2011.
95. **J. van Summeren**², **C.P. Conrad**, and C. Lithgow-Bertelloni, “Impact of lithospheric thickness variations on global plate motions”, *Gordon-Kenan Research Seminar ‘Nature of the Asthenosphere’*, South Hadley, MA, June 2011.
94. **J. van Summeren**², E. Gaidos, and **C.P. Conrad**, “Feasibility of plate tectonics on rocky exoplanets”, *NASA Exoplanet Science Institute ‘Exploring strange new worlds: From giant planets to Super Earths’*, Flagstaff, AZ, May 2011.
93. **C.P. Conrad**, “50 years of plate tectonics, but what is the driving force?”, *The 24th Kongsberg Seminar on ‘Earth Systems Challenges’*, Kongsberg, Norway, May 2011. (INVITED)
92. L. Husson, **C.P. Conrad**, and C. Faccenna, “On the consistency between Andean dynamics and mantle flow in the South Atlantic”, *EGU General Assembly*, Vienna, Austria, April 2011.
91. **C.P. Conrad**, B. Steinberger, and T. Torsvik, “Past mantle dynamics revealed by net characteristics of surface plate motions”, *EGU General Assembly*, Vienna, Austria, April 2011.
90. **C.P. Conrad**, **T. Bianco**², E. Smith, and P. Wessel, “Patterns of intraplate volcanism on Earth controlled by asthenospheric shear”, *EGU General Assembly*, Vienna, Austria, Apr. 2011.
89. **J. van Summeren**², **C.P. Conrad**, and E. Gaidos, “Convective structure and tectonic setting for synchronously rotating super-Earth exoplanets”, *AGU Fall Meeting*, P32A-07, San Fran., CA, Dec. 2010.
88. **S. Natarov**¹, and **C.P. Conrad**, “Constraining Poiseuille flow in the asthenosphere using the depth-dependence of azimuthal seismic anisotropy”, *AGU Fall Meeting*, DI33C-03, San Fran., CA, Dec. 2010.
87. **C.P. Conrad**, **T.A. Bianco**², E.I. Smith, and P. Wessel, “Asthenospheric shear controls global patterns of intraplate volcanism”, *AGU Fall Meeting*, U51A-0027, San Fran., CA, Dec. Dec. 2010.
86. **T.A. Bianco**², **C.P. Conrad**, and E.I. Smith, “Time-dependence of intraplate volcanism caused by shear-driven upwelling of low-viscosity regions of the asthenosphere”, *AGU Fall Meeting*, U51A-0028, San Fran., CA, Dec. 2010.

85. L. Husson and **C.P. Conrad**, "Impact of the Pangean mantle flow on current plate tectonics", *GeoMod 2010: Modeling in the Geosciences*, Lisbon, Portugal, September 2010.
84. **C.P. Conrad** and M.D. Behn, "The anisotropic constraint on global mantle flow and net lithosphere rotation", *VooDoo Tectonics: From Crust to Core*, Oslo, Norway, Aug. 2010. (INVITED)
83. **C.P. Conrad**, **T.A. Bianco**², and E.I. Smith, "Intraplate volcanism and global plate motions: The Shear-Driven Upwelling", *Geodynamics of the Lithosphere and Deep Earth*, San Diego, CA, July 2010. (INVITED)
82. **S. Natarov**¹, & **C.P. Conrad**, "Constraining Poiseuille flow in the asthenosphere using the depth-rotation of azimuthal seismic anisotropy", *Geodynamics of the Lithosphere and Deep Earth*, San Diego, CA, July 2010.
81. **J. van Summeren**², **C.P. Conrad**, and C. Lithgow-Bertelloni, "Lateral viscosity variations associated with continental roots and its impact on plate motions and plate-mantle coupling", *Geodynamics of the Lithosphere and Deep Earth*, San Diego, CA, July 2010.
80. **J. van Summeren**², **C.P. Conrad**, and E. Gaidos, "Mantle convection in tidally-locked extra-solar planet COROT-7b", *End-of-Term Hawaii Open Meeting on Exoplanets*, Honolulu, HI, May 2010.
79. **J.W. Fiedler**³, and **C.P. Conrad**, "Spatial variability of sea level rise due to water impoundment behind dams", *AGU Fall Meeting*, G53C-0687, San Fran., CA, Dec. 2009.
78. **T.A. Bianco**², **C.P. Conrad**, & E.I. Smith, "Rates and durations of intraplate melting and volcanism caused by shear-driven upwelling", *AGU Fall Meeting*, V41A-2159, San Fran., CA, Dec. 2009.
77. **C.P. Conrad**, **B. Wu**¹, E.I. Smith, **T.A. Bianco**², and A. Tibbetts, Shear-driven upwelling induced by lateral viscosity variations and asthenospheric shear: A mechanism for intraplate volcanism, *AGU Fall Meeting*, V54A-06, San Fran., CA, Dec. 2009.
76. E.I. Smith, **C.P. Conrad**, R. Johnsen, and A. Tibbetts, "Characteristics and origin of continental and oceanic intraplate volcanism", *AGU Fall Meeting*, V54A-01, San Fran., CA, Dec. 2009.
75. A. Tibbetts, E. Smith, **C.P. Conrad**, C.-T. Lee, T. Plank, & Y. Yang, "Relationship between low-velocity S-wave anomalies, asthenospheric dynamics and basaltic volcanism in the intraplate setting of the basin and range, USA", *AGU Fall Meeting*, V41A-2160, San Fran., CA, Dec. 2009.
74. L. Husson and **C.P. Conrad**, "Impact of the Hapagea surpercontinental aggregation on American Cordilleras and the seafloor age distribution", *AGU Fall Meeting*, S11A-1689, San Fran., CA, Dec. 2009.
73. **J. van Summeren**², **C.P. Conrad**, and C. Lithgow-Bertelloni, "The influence of continental roots on plate motions and plate-mantle coupling", *AGU Fall Meeting*, T13B-1869, San Fran., CA, Dec. 2009.
72. **C.P. Conrad**, "Subduction and Plate Motions", *Slab Retreat Workshop*, Melbourne, Australia, July 2009. (INVITED)
71. L. Husson and **C.P. Conrad**, "Impact of the Hapagea surpercontinental aggregation on American Cordilleras and the seafloor age distribution", *11th International Workshop on Modeling of Mantle Convection and Lithosphere Dynamics*, Braunwald, Switzerland, June 2009.
70. **C.P. Conrad**, and L. Husson, "Influence of dynamic topography on sea level and its rate of change", *Gordon Research Conference 'Interior of the Earth'*, Mt. Holyoke College, Mass., June 2009.
69. A. Tibbetts, E. Smith, **C.P. Conrad**, C.-T. Lee, T. Plank, and Y. Yang, "Intraplate basaltic volcanism in the Basin and Range, USA: Relationship to low-velocity S-wave anomalies and asthenospheric dynamics", *AGU Spring Meeting*, Toronto, Canada, May 2009.
68. **C.P. Conrad** and M.D. Behn, "Constraints on global mantle flow and lithosphere net rotation from seismic anisotropy," *Opportunities & Challenges in Computational Geophysics Workshop*, Pasadena, CA, March 2009.
67. **C.P. Conrad**, and L. Husson, "Influence of dynamic topography on sea level and its rate of change", *Opportunities & Challenges in Computational Geophysics Workshop*, Pasadena, CA, March 2009.
66. C.M. Cooper and **C.P. Conrad**, "Cratons, the mantle, and time," *AGU Fall Meeting*, DI53A-1696, San Fran., CA, Dec. 2008.
65. **C.P. Conrad**, B.J. Meade, **B. Wu**¹, A. Heuret, C. Lithgow-Bertelloni, and S. Lallemand, "Plate boundary forces at subduction zones: Effects of plate bending and back-arc orogeny on global plate motions," *AGU Fall Meeting*, DI52A-03, San Fran., CA, Dec. 2008.
64. J. Naliboff, C. Lithgow-Bertelloni, and **C.P. Conrad**, "The effects of mantle flow and plate rheology on the lithospheric stress field," *AGU Fall Meeting*, DI53A-1683, San Fran., CA, Dec. 2008.
63. B.J. Meade, and **C.P. Conrad**, "Andean growth and the deceleration of South American subduction: Time evolution of a coupled orogen-subduction system," *AGU Fall Meeting*, U42B-08, San Fran., CA, Dec. 2008.
62. **L. Metivier**², **C.P. Conrad**, O. de Viron, and M. Diament, "Evidence of earthquake triggering by the solid earth tides," *AGU Fall Meeting*, S23C-02, San Fran., CA, Dec. 2008.
61. **C.P. Conrad**, and M.D. Behn, "Characteristics of asthenospheric flow constrained from models of mantle circulation and observations of seismic anisotropy," *AGU Fall Meeting*, U41F-04, San Fran., CA, Dec. 2008. (INVITED)
60. T.W. Becker, **C.P. Conrad**, B. Buffett, D. Muller, S. Loyd, C. Lithgow-Bertelloni, and F. Corsetti, "Past and present seafloor age distributions and the temporal evolution of plate tectonic heat transport," *AGU Fall Meeting*, DI51A-06, San Fran., CA, Dec. 2008.

59. E. Smith, **C.P. Conrad**, T. Plank, A. Tibbetts, and D. Keenan, "Testing models for basaltic volcanism: Implications for Yucca Mountain, Nevada," *2008 International High-Level Radioactive Waste Management Conference*, Las Vegas, NV, September 2008.
58. **C.P. Conrad** and M.D. Behn, "Constraints on global mantle flow and lithosphere net rotation from seismic anisotropy," *CIG Workshop for Advancing Numerical Modeling of Mantle Convection & Lithosphere Dynamics*, Davis, CA, July 2008.
57. J. Naliboff, C. Lithgow-Bertelloni, and **C.P. Conrad**, "Models of intraplate stresses in the North and South American plates," *Joint Assembly of the AGU*, Fort Lauderdale, FL, May 2008.
56. **L. Metivier**² and **C.P. Conrad**, "The effect of mantle heterogeneity on tidal gravity and surface deformations," *AGU Fall Meeting*, G32A-05, San Fran., CA, Dec. 2007.
55. C. Lithgow-Bertelloni, J. Naliboff, **C.P. Conrad**, & N. de Koker, "Mantle-lithosphere coupling and the state of stress of the lithosphere," *AGU Fall Meeting*, T13G-07, San Fran., CA, Dec. 2007.
54. **C.P. Conrad**, L. Husson, & **A. Robinson**³, "Global mantle flow models constrained by observations of long term sea level change," *AGU Fall Meeting*, DI14A-05, San Fran., CA, Dec. 2007. (INVITED)
53. **C.P. Conrad**, M.D. Behn, and P.G. Silver, "Seismic Anisotropy as a constraint on global mantle flow and plate motions," *AGU Fall Meeting*, U34A-08, San Fran., CA, Dec. 2007. (INVITED)
52. **C.W. Hayes**¹ and **C.P. Conrad**, "Subduction dynamics and great earthquakes," *AGU Fall Meeting*, T52A-05, San Fran., CA, Dec. 2007.
51. C.M. Cooper and **C.P. Conrad**, "Does the mantle control the maximum thickness of cratons?," *AGU Fall Meeting*, V43B-1365, San Fran., CA, Dec. 2007.
50. S.J. Loyd, T.W. Becker, **C.P. Conrad**, C. Lithgow-Bertelloni, and F.A. Corsetti, "Time variability in Cenozoic reconstructions of mantle heat flow: Plate tectonic cycles and implications for Earth's thermal evolution," *AGU Fall Meeting*, U11A-0009, San Fran., CA, Dec. 2007.
49. L. Husson, **C.P. Conrad**, and C. Faccenna "Tethyan closure, Andean Orogeny, and westward drift of the Pacific basin," *10th International Workshop on Modeling of Mantle Convection and Lithosphere Dynamics*, Carry-le-Rouet, France, September 2007.
48. **C.P. Conrad**, and A.H. Jahren, "Tectonic release of methane hydrates at subduction zones during the Mesozoic," *Subduction Zone Geodynamics Conference*, Montpellier, France, June 2007.
47. L. Husson, C. Faccenna, and **C.P. Conrad**, "Westward drift of the Pacific plates, trenches, and upper mantle," *Subduction Zone Geodynamics Conference*, Montpellier, France, June 2007.
46. L. Husson, C. Faccenna, and **C.P. Conrad**, "Westward drift of the Pacific plates, trenches, and upper mantle," *EGU General Assembly*, Vienna, Austria, April 2007.
45. **C.P. Conrad**, M.D. Behn, and P. Silver, "Global mantle flow and the development of asthenospheric anisotropy: Differences between the oceanic and continental upper mantle," *AGU Fall Meeting*, T53C-1629, San Fran., CA, Dec. 2006.
44. L. Husson and **C.P. Conrad**, "Tectonic velocities, dynamic topography, and relative sea level," *AGU Fall Meeting*, T52D-08, San Fran., CA, Dec. 2006.
43. **S.A. Steiner**¹, **C.P. Conrad**, & C. Lithgow-Bertelloni, "Influence of active mantle upwelling and continental roots for driving plate motions," *AGU Fall Meeting*, T53D-1641, San Fran., CA, Dec. 2006.
42. C. Lithgow-Bertelloni, **C.P. Conrad**, and X. Xu, "Global reconstructions of Cenozoic seafloor ages: Implications for bathymetry and sea level," *GSA Annual Meeting*, Philadelphia, PA, October 2006.
41. **C.P. Conrad**, and C. Lithgow-Bertelloni, "Faster seafloor spreading and lithosphere production during the mid-Cenozoic," *GSA Annual Meeting*, Philadelphia, PA, Oct. 2006.
40. P.G. Silver, M.D. Behn, and **C.P. Conrad**, "Characterizing the mantle flow field beneath eastern North America using flow models constrained by seismic anisotropy," *AGU Joint Assembly*, T31A-01, Baltimore, MD, May 2006.
39. **C.P. Conrad** and C. Lithgow-Bertelloni, "The influence of continental roots and asthenospheric viscosity on plate-mantle coupling," *AGU Joint Assembly*, T24A-06, Baltimore, MD, May 2006.
38. C. Lithgow-Bertelloni, **C.P. Conrad**, and S. Bilek, "Slab pull, slab weakening and their influence on great earthquakes, deep earthquakes, and surface deformation," *AGU Fall Meeting*, U53A-06, San Fran., CA, Dec. 2005.
37. M.D. Behn, **C.P. Conrad**, and P.G. Silver, "Interaction between downwelling flow and the laterally-varying thickness of the North American lithosphere inferred from seismic anisotropy," *AGU Fall Meeting*, T21D-04, San Fran., CA, Dec. 2005.
36. A.H. Jahren, **C.P. Conrad**, and N.C. Arens, "Plate tectonics and terrestrial carbon isotope records," *AGU Fall Meeting*, PP42A-05, San Fran., CA, Dec. 2005.
35. **C.P. Conrad**, and C. Lithgow-Bertelloni, "Accelerating seafloor spreading and a crustal production slowdown during the Cenozoic," *AGU Fall Meeting*, T41E-1359, San Fran., CA, Dec. 2005.
34. **C.P. Conrad**, C. Lithgow-Bertelloni, and K.E. Loudon, "Iceland, the Scotian Basin, and the Farallon Slab: Dynamic topography of the North Atlantic," *2005 Boulder Mantle Convection Workshop*, Boulder, CO, June 2005.

33. **C.P. Conrad**, C. Lithgow-Bertelloni, and M.D. Behn, "Lateral variations in lithospheric viscosity: Implications for seismic anisotropy and lithospheric stresses," *2005 Boulder Mantle Convection Workshop*, Boulder, CO, June 2005.
32. M.D. Behn, **C.P. Conrad**, and P.G. Silver, "Seismic anisotropy and flow across continental North America," *Earthscape National Meeting*, Santa Ana Pueblo, NM, March 2005.
31. **C.P. Conrad**, and C. Lithgow-Bertelloni, "Lateral variations in mantle viscosity and the lithospheric stress field," *AGU Fall Meeting*, T34A-06, San Fran., CA, Dec. 2004.
30. A.H. Jahren, **C.P. Conrad**, and N.C. Arens, "Causes and effects of the Aptian (~117 Ma) methane release," *AGU Fall Meeting*, PP41A-0583, San Fran., CA, Dec. 2004.
29. M.D. Behn, **C.P. Conrad**, and P.G. Silver, "Seismic anisotropy and flow in the oceanic and continental upper mantle: Inferences from SKS splitting observations," *AGU Fall Meeting*, T32A-05, San Fran., CA, Dec. 2004.
28. A.H. Jahren, **C.P. Conrad**, and N.C. Arens, "Causes and effects of the Aptian (~117 Ma) methane release," *GSA Annual Meeting*, Denver, CO, November 2004.
27. **C.P. Conrad**, C. Lithgow-Bertelloni, and S. Bilek, "Great earthquakes and slab pull: Geologic and seismic constraints on 3-dimensional models of subduction and mantle flow," *Western Pacific Geophysics Meeting*, T42A-01, Honolulu, HI, August 2004. (INVITED)
26. S. Bilek, **C.P. Conrad**, and C. Lithgow-Bertelloni, "Comparisons Between Slab Pull and Earthquake Depths and Focal Mechanisms," *Western Pacific Geophysics Meeting*, T23A-72, Honolulu, HI, Aug. 2004.
25. X. Xu, C. Lithgow-Bertelloni, and **C.P. Conrad**, "Tectonic history of the Western Pacific: implications for mantle structure," *Western Pacific Geophysics Meeting*, T21A-05, Honolulu, HI, August 2004.
24. X. Xu, **C.P. Conrad**, and C. Lithgow-Bertelloni, "Cenozoic seafloor ages and sea-level changes," *Western Pacific Geophysics Meeting*, T13B-47, Honolulu, HI, August 2004.
23. C. Lithgow-Bertelloni, and **C.P. Conrad**, "Dynamic topography of oceans and continents," *AGU Joint Assembly*, T23A-05, Montreal, Canada, May 2004.
22. M. Behn, **C.P. Conrad**, and P. Silver, "Evidence for upper mantle flow associated with the African Superplume," *AGU Fall Meeting*, T51B-05, San Fran., CA, Dec. 2003.
21. **C.P. Conrad**, C. Lithgow-Bertelloni, and K.E. Loudon, "Iceland, the Scotian Basin, and the Farallon Slab: Dynamic topography of the North Atlantic," *AGU Fall Meeting*, T41C-0240, San Fran., CA, Dec. 2003.
20. **C.P. Conrad**, S. Bilek, and C. Lithgow-Bertelloni, "Geologic and seismic constraints on the coupling between plates and slabs: past and present," *Gordon Research Conference 'Interior of the Earth'*, Mount Holyoke, MA, June 2003.
19. **C.P. Conrad**, S. Bilek, and C. Lithgow-Bertelloni, "Geologic and seismic constraints on the coupling between plates and slabs: past and present," *AGU Fall Meeting*, U72B-0034, San Fran., CA, Dec. 2002.
18. **C.P. Conrad** and C. Lithgow-Bertelloni, "The relative importance of asymmetrical slab-pull and symmetrical slab-suction in driving plate motions," *AGU Spring Meeting*, S32A-05, Washington, DC, May 2002.
17. **C.P. Conrad** and C. Lithgow-Bertelloni, "The role of bending resistance at subduction zones on the force balance of plate tectonics through the Cenozoic," *AGU Fall Meeting*, U21A-10, San Fran., CA, Dec. 2001.
16. **C.P. Conrad**, M. Fisk, V. Khalturin, W.Y. Kim, I. Morozov, E. Morozova, P. Richards, D. Schaff, F. Waldhauser, and M. West "Seismic Location Calibration for 30 IMS stations in Eastern Asia", *23rd Annual DoD/DOE Seismic Research Review: Worldwide Monitoring of Nuclear Explosions*, Jackson Hole, WY, October 2001.
15. M. Gurnis, and **C.P. Conrad**, "Causes of large-scale continental uplift", *EUG XI (Meeting of the European Union of Geosciences)*, Strasbourg, France, April 2001.
14. **C.P. Conrad** and M. Gurnis, "Constraining time-dependent mantle convection using seismic tomography and geological observations of surface uplift," *AGU Fall Meeting*, T72F-02, San Fran., CA, Dec. 2000.
13. **C.P. Conrad** and B.H. Hager, "A method for parameterizing subduction zone deformation within mantle-scale convection model," *AGU Fall Meeting*, T22C-10, San Fran., CA, Dec. 1999.
12. **C.P. Conrad** and B.H. Hager, "Including the resistance to plate bending at subduction zones in numerical models of mantle convection," *Int. School of Geophysics*, Erice, Italy, July 1999.
11. C. Lithgow-Bertelloni, M.A. Richards, **C.P. Conrad**, and R.W. Griffiths, "Laboratory experiments on natural generation of thermal plumes at high Rayleigh and Prandtl numbers: Evidence for episodic plume bursts due to secular forcing", *AGU Fall Meeting*, S11E-12, San Fran., CA, Dec. 1998.
10. **C.P. Conrad** and B.H. Hager, "The role of plate bending and subduction zone strength on the thermal evolution of the Earth," *AGU Fall Meeting*, T21F-07, San Fran., CA, Dec. 1998.
9. **C.P. Conrad** and B.H. Hager, "The roles of plate bending and fault strength at subduction zones on plate dynamics," *Gordon Research Conference 'Interior of the Earth'*, Henniker, NH, July 1998.
8. **C.P. Conrad** and B.H. Hager, "The roles of plate bending and fault strength at subduction zones on plate dynamics," *AGU Fall Meeting*, U21A-03, San Fran., CA, Dec. 1997.
7. P. Molnar and **C.P. Conrad**, "Growth rates of convective instability for temperature-dependent and strain rate-dependent viscosity in terms of "available buoyancy", " *AGU Fall Meeting*, T41G-09, San Fran., CA, Dec. 1997.
6. **C.P. Conrad**, P. Molnar, and G.A. Houseman, "Convective instability of mechanically thickened mantle lithosphere," *Conference on Continental Roots*, Harvard, Cambridge, MA, October 1997.

5. **C.P. Conrad** and B.H. Hager, "Including realistic convergent plate boundaries in numerical models of mantle convection," *AGU Fall Meeting*, T32D-11, San Fran., CA, Dec. 1996.
4. **C.P. Conrad** and B.H. Hager, "Crustal motions and ocean basin volume change caused by mass redistributions associated with sea level rise," *AGU Spring Meeting*, G12A-07, Baltimore, MD, May 1996. (INVITED)
3. **C.P. Conrad** and B.H. Hager, "The elastic response of the earth to interannual variations in Antarctic precipitation," *AGU Fall Meeting*, G51A-04, San Fran., CA, Dec. 1995.
2. **C.P. Conrad** and B.H. Hager, "The effect of interannual variations in precipitation on geodetic measurements of ice sheet mass changes," *Conference on Sea Level Change*, Miami, FL, Nov. 1995.
1. C. Lithgow-Bertelloni, M.A. Richards, **C.P. Conrad** and R.W. Griffiths, 3-D convection experiments at high $Ra\#$ and $Pr\#$ in a fluid with strongly temperature dependent viscosity, *AGU Fall Meeting*, San Fran., CA, Dec. 1992.

Conrad research group members: ¹ graduate student; ² postdoctoral scholar; ³ undergraduate student

Research Productivity (as of April 2020)

<u>Career</u>	<u>Since 2015</u>	
79	21	Peer-Reviewed Manuscripts in International Journals
4497	2119	Citations (Google Scholar)
39	27	H-index (Google Scholar)
31	17	Invited Keynote Presentations
48	9	Invited Departmental Seminars
207	75	Contributed Conference Abstracts