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Centre for Planetary Habitability (PHAB)
Department of Geosciences, University of Oslo
Sem Sælands vei 2A, 0371 Oslo, Norway

Education

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

Professional Experience

Professor	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)	2016-2021
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

Elected Member	*Academia Europaea*	2021
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

Additional Awards

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

Funded Projects

4D Dynamic Earth	ESA	PI	€40,000	2023-2025
Centre for Planetary Habitability (PHAB)	NFR (Norway)	Co-PI	155M NOK	2023-2033
Magnetotellurics in Greenland (MAGPIE)	NFR (Norway)	PI	8.9M NOK	2019-2023
Absolute Motion of Plumes and Plates	NSF Marine GG	Co-PI	$276,969	2020-2023
3D Earth – Greenland	ESA	PI	€55,000	2020-2021
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	Geoscience 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	Geoscience 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

Funded Project Participation

POLARIS – Evolution of the Arctic in deep time	NFR	PI Grace Shephard	2021-2025
ANIMA – ANIsostropic viscosity in MAntle dynamics	NFR	PI Ágnes Király	2021-2025

Student & Postdoc Mentoring

Postdoctoral Scholars	Björn Heyn (UiO, 2020-2021)	Ágnes Király (UiO, 2017-2020)
	Fabio Crameri (UiO, 2016-2018)	Joost van Summeren (UH, 2009-13)
	Maxim Ballmer (UH, 2011-12)	Todd Bianco (UH, 2009-2010)
	Laurent Métivier (JHU, 2007-08)	
PhD Students	Florence Ramirez (UiO, 2019-2022)	Maaike Weerdesteijn (UiO, 2019-2023)
	Krister Karlsen (UiO, 2017-2021)	Björn Heyn (UiO, 2016-2020)
PhD co-supervisor	Yijun Wang (UiO, 2021-now)	Benjun Wu (JHU, 2006-08, PhD 2011)
MS Students	Helene Wang (UiO, 2020-2022)	Robert Hartman (GEOMAR, 2017-19)
	Petra Hatalova (UiO, 2018-19)	Alysse Bebin (ENSTA, 2017)
	C. Evan Watkins (UH, 2014-16)	Emeline Veit (ENSTA, 2015)
	Harrison Togia (UH, 2012-15)	Svetlana Natarov (UH, 2009-11)
	Christopher Hayes (JHU, 2006-08)	Stephen Steiner (JHU, 2005-06)
Undergraduate Thesis	Julia Fiedler (UH, 2009-2010)	Abigail Robinson (JHU, 2006-2007)

Affiliations: UiO = Oslo, UH = Hawaii, JHU = Johns Hopkins, GEOMAR = Kiel (Germany), ENSTA = Bretagne (France)

Field and Seagoing Experience

MAGPIE 2022	Magnetotellurics fieldwork: RAVEN camp (Greenland ice sheet)	2022
MAGPIE 2019	Magnetotellurics fieldwork: EastGRIP station (Greenland ice sheet)	2019
Kilo Moana 1106	Shipboard research: Crustal Structure of the NE Hawaiian Arch	2011
Kilo Moana 0903	Shipboard research: Density Structure of the Mahukona Ridge	2009

Community Code Development

TracTec	*Collaborator*	Public code for computing seafloor ages	2020
calcpi	*Developer*	Public code for computing anisotropic fabrics	2007
CitComS	*Contributor*	Community finite-element mantle convection code	2000

Comissions of Trust

Norsk Reference Group	Polar Expert Group (PEG) within EU-PolarNet 2	2021-now
National Contact Point representing Norway	Knowledge Hub on Sea Level Rise for JPI-Oceans and JPI-Climate (European Commission)	2021-now
Editorial Board	*Evolving Earth*	2023-now
Editorial Board	*Global and Planetary Change*	2021-now
Associate Editor	*Geochemistry, Geophysics, Geosystems (G^3)*	2015-now
Team Leader	Earth Modelling Team, Centre for Earth Evolution & Dynamics	2016-2023
Organizer	Water Planet Initiative, Centre for Earth Evolution & Dynamics	2018-2021
Associate Editor	*Geological Society of America Bulletin*	2014-2016
Guest Editor	*Plate Tectonics & Deep Earth Dynamics (Tectonophysics issue)*	2017-2020
Guest Editor	*The Lithosphere-Asthenosphere Boundary (G^3 theme issue)*	2011-2014
Nominating Committee	Computational Infrastructure for Geodynamics (CIG)	2012, 16, 17
Proposal Review Panel	EAR proposals, National Science Foundation (USA)	2009
Program Committee	American Geophysical Union Fall Meeting (Tectonophysics)	2006-2007

Published Manuscripts (all peer-reviewed)

88. **Ramirez[1], F.D.C.**, **C. P. Conrad**, and K. Selway (2023), Grain size reduction by plug flow in the wet oceanic upper mantle explains the asthenosphere's low seismic Q zone, *Earth and Planetary Science Letters*, *616*, 118232. https://doi.org/10.1016/j.epsl.2023.118232
87. **Weerdesteijn[1], M.F.M.**, J.B. Naliboff, **C. P. Conrad**, J.M. Reusen, R. Steffen, T. Heister, and J. Zhang (2023), Modeling viscoelastic solid earth deformation due to ice age and contemporary glacial mass changes in ASPECT, *Geochemistry, Geophysics, Geosystems*, e2022GC010813. https://doi.org/10.1029/2022GC010813

86. Paul, J., **C.P. Conrad**, T.W. Becker, and A. Ghosh (2023), Convective self-compression of cratons and the stabilization of old lithosphere, *Geophysical Research Letters*, *50*, e2022GL101842. https://doi.org/10.1029/2022GL101842
85. **Weerdesteijn[1], M.F.M.**, **C. P. Conrad**, and J.B. Naliboff (2022), Solid earth uplift due to contemporary ice melt above low-viscosity regions of the upper mantle, *Geophysical Research Letters*, *49*, e2022GL099731. https://doi.org/10.1029/2022GL099731
84. **Ramirez[1], F.D.C.**, K. Selway, **C. P. Conrad**, and C. Lithgow-Bertelloni (2022), Constraining upper mantle viscosity using temperature and water content inferred from seismic and magnetotelluric data, *Journal of Geophysical Research: Solid Earth*, *127*, e2021JB023824. https://doi.org/10.1029/2021JB023824
83. Marcilly, C.M, T.H Torsvik, and **C.P. Conrad** (2022), Global Phanerozoic sea levels from paleogeographic flooding maps, *Gondwana Research, 110*, 128-142. https://doi.org/10.1016/j.gr.2022.05.011
82. **Heyn[2], B.H.,** and **C.P. Conrad** (2022), On the relation between basal erosion of the lithosphere and surface heat flux for continental plume tracks, *Geophysical Research Letters, 49,* e2022GL098003. https://doi.org/10.1029/2022GL098003
81. **Karlsen[1], K.S., C.P. Conrad**, M. Domeier, and R. Trønnes (2021), Spatiotemporal variations in surface heat loss imply a heterogeneous mantle cooling history, *Geophysical Research Letters, 48,* e2020GL092119. https://doi.org/10.1029/2020GL092119
80. **Király[2], 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. **Heyn[1], 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. **Heyn[1], B.H., C.P. Conrad**, and R.G. Trønnes (2020), How thermochemical piles can (periodically) generate plumes at their edges, *Journal of Geophysical Research: Solid Earth*, *125*, e2019JB018726. https://doi.org/10.1029/2019JB018726
77. **Karlsen[1], 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. **Hartman[1], 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. **Karlsen[1], 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. **Crameri[2], 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. **Heyn[1], 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. **Watkins[1], 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: Solid Earth*, *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. **Veit[1], 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. Wagreich, 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. **Ballmer[2], 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 Summeren[2], 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. **Ballmer[2], 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. **Natarov[1], 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 Summeren[2], 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. **Bianco[2], 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: Solid Earth, 116*, B11103. https://doi.org/10.1029/2011JB008270
43. **van Summeren[2], 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. Bianco[2]**, 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
38. **Fiedler[3], J.W.**, and **C.P. Conrad** (2010), Spatial variability of sea level rise due to water impoundment behind dams, *Geophysical Research Letters, 37*, L12603. https://doi.org/10.1029/2010GL043462
37. **Conrad, C.P.**, and M.D. Behn (2010), Constraints on lithosphere net rotation and asthenospheric viscosity from global mantle flow models and seismic anisotropy, *Geochemistry, Geophysics, Geosystems, 11*, Q05W05. https://doi.org/10.1029/2009GC002970
36. **Conrad, C.P., B. Wu[1]**, E.I. Smith, **T.A Bianco[2]**, 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
35. Naliboff, J.B., **C.P. Conrad**, and C. Lithgow-Bertelloni (2009), Modification of the lithospheric stress field by lateral variations in plate-mantle coupling, *Geophysical Research Letters, 36,* L22307. https://doi.org/10.1029/2009GL040484
34. **Conrad, C.P.**, and L. Husson (2009), Influence of dynamic topography on sea level and its rate of change, *Lithosphere, 1,* 110-120. https://doi.org/10.1130/L32.1
33. Cooper, C.M., and **C.P. Conrad** (2009), Does the mantle control the maximum thickness of cratons?, *Lithosphere, 1,* 67-72. https://doi.org/10.1130/L40.1
32. **Métivier[2], L.**, O. de Viron, **C.P. Conrad**, S. Renault, M. Diament, and G. Patau (2009), Evidence of earthquake triggering by the solid earth tides, *Earth and Planetary Science Letters, 278,* 370-375. https://doi.org/10.1016/j.epsl.2008.12.024
31. Becker, T.W., **C.P. Conrad,** B. Buffett, and R.D. Müller (2009), Past and present seafloor age distributions and the temporal evolution of plate tectonic heat transport, *Earth and Planetary Science Letters, 278,* 233-242. https://doi.org/10.1016/j.epsl.2008.12.007
30. **Métivier[2], L.,** and **C.P. Conrad** (2008), Body tides of a convecting, laterally heterogeneous, and aspherical Earth, *Journal of Geophysical Research: Solid Earth, 113*, B11405. https://doi.org/10.1029/2007JB005448
29. Meade, B.J., and **C.P. Conrad** (2008), Andean growth and the deceleration of South American subduction: Time evolution of a coupled orogen-subduction system, *Earth and Planetary Science Letters, 275*, 93-101. https://doi.org/10.1016/j.epsl.2008.08.007
28. Smith, E.I., **C.P. Conrad**, T. Plank, A. Tibbetts, and D. Keenan (2008), Testing models for basaltic volcanism: implications for Yucca Mountain, Nevada, *American Nuclear Society, Proceedings of the 12th International High-Level Radioactive Waste Management Conference*, 157-164.

27. **Wu[1], B., C.P. Conrad**, A. Heuret, C. Lithgow-Bertelloni, and S. Lallemand (2008), Reconciling strong slab pull and weak plate bending: The plate motion constraint on the strength of mantle slabs, *Earth and Planetary Science Letters, 272,* 412-421. https://doi.org/10.1016/j.epsl.2008.05.009
26. Husson, L., **C.P. Conrad**, and C. Faccenna (2008), Tethyan closure, Andean orogeny, and westward drift of the Pacific basin, *Earth and Planetary Science Letters, 271,* 303-310. https://doi.org/10.1016/j.epsl.2008.04.022
25. Loyd, S.J., T.W. Becker, **C.P. Conrad**, C. Lithgow-Bertelloni, and F.A. Corsetti (2007), Time variability in Cenozoic reconstructions of mantle heat flow: Plate tectonic cycles and implications for Earth's thermal evolution, *Proceedings of the National Academy of Sciences, 104*, 14266-14271. https://doi.org/10.1073/pnas.0706667104
24. **Conrad, C.P.,** M.D. Behn, and P.G. Silver (2007), Global mantle flow and the development of seismic anisotropy: Differences between oceanic and continental upper mantle, *Journal of Geophysical Research: Solid Earth, 112,* B07317. https://doi.org/10.1029/2006JB004608
23. **Steiner[1], S.A.,** and **C.P. Conrad** (2007), Does active mantle upwelling drive plate motions?, *Physics of the Earth and Planetary Interiors, 161*, 103-114. https://doi.org/10.1016/j.pepi.2007.01.005
22. **Conrad, C.P.,** and C. Lithgow-Bertelloni (2007), Faster seafloor spreading and lithosphere production during the mid-Cenozoic, *Geology, 35,* 29-32. https://doi.org/10.1130/G22759A.1
21. Husson, L., and **C.P. Conrad** (2006), Tectonic velocities, dynamic topography, and relative sea level, *Geophysical Research Letters, 33,* L18303. https://doi.org/10.1029/2006GL026834
20. **Conrad, C.P.**, and C. Lithgow-Bertelloni (2006), The influence of continental roots and asthenosphere on plate-mantle coupling, *Geophysical Research Letters, 33,* L05312. https://doi.org/10.1029/2005GL025621
19. Xu, X., C. Lithgow-Bertelloni, and **C.P. Conrad** (2006), Global reconstructions of Cenozoic seafloor ages: Implications for bathymetry and sea level, *Earth and Planetary Science Letters, 243,* 552-564. https://doi.org/10.1016/j.epsl.2006.01.010
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Conrad research group members: [1] graduate student; [2] postdoctoral scholar; [3] undergraduate student

Other Publications

10. **Crameri[2], 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
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Research Productivity (as of August 2023)

Career	Since 2018	
88	**22**	**Peer-Reviewed Manuscripts in International Journals**
6211	**2819**	**Citations (Google Scholar)**
43	**32**	**H-index (Google Scholar)**
34	**12**	**Invited Keynote Presentations**
51	**7**	**Invited Departmental Seminars**
239	**74**	**Contributed Conference Abstracts**