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Centre for Planetary Habitability (PHAB)
Department of Geosciences, University of Oslo
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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

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. Iceland, Inst. Earth Science	Reykjavik, Iceland	guest professor	2024-2025
Univ. Hawaii, Dept. Earth Science	Honolulu, USA	affiliate faculty	2016-2021
Centre for Advanced Study	Oslo, Norway	guest researcher	2010-2011
Carnegie Institute in Washington	Washington, DC, USA	off-site visitor	2006-2009
University of Montpellier II	Montpellier, France	guest researcher	2007
Danish Lithosphere Centre	Copenhagen, Denmark	guest researcher	2003

Major Awards

Elected Member	<i>Academia Europaea</i>	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	<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

Forebulges & Land Adjustments (FUGLA)	Rannis (Iceland)	PI	€12,500	2025-2026
4D Dynamic Earth	ESA (UiO share: €40k)	Co-PI	€500,000	2023-2025
Centre for Planetary Habitability (PHAB)	NFR (Norway)	Co-PI	NOK 155M	2023-2033
Magnetotellurics in Greenland (MAGPIE)	NFR (Norway)	PI	NOK 8.9M	2019-2023
3D Earth – Greenland	ESA (UiO share: €55k)	Co-PI	€1,515,000	2020-2021
3D Visualization on Virtual Desktops	UiO e-Infrastructure	PI	NOK 2.5M	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

Funded Projects (continued)

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

DYNAMICE – Anisotropic dynamics for ice & mantle	ERC	PI Ágnes Király	2025-2030
POLARIS – Evolution of the Arctic in deep time	NFR	PI Grace Shephard	2021-2025
ANIMA – ANIsotropic viscosity in MANTle dynamics	NFR	PI Ágnes Király	2021-2025
Absolute Motion of Plumes and Plates	NSF	PI Paul Wessel	2020-2024
Centre for Earth Evolution and Dynamics (CEED)	NFR	PI Trond Torsvik	2013-2023

Student & Postdoc Mentoring

Postdoctoral Scholars	Jyotirmoy Paul (UiO, 2024-now)	
	Florence Ramirez (UiO, 2023-2025)	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)	Maaïke Weerdesteijn (UiO, 2019-2023)
	Krister Karlsen (UiO, 2017-2021)	Björn Heyn (UiO, 2016-2020)
PhD co-supervisor	Yijun Wang (UiO, 2021-2025)	Zhirui Ray Wang (LMU Munich, 2024)
	Benjun Wu (JHU, 2006-08, PhD 2011)	
MS Students	Søren Tvingsholm (UiO, 2023-2025)	
	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)
<i>Affiliations: UiO = Oslo, UH = Hawaii, JHU = Johns Hopkins, GEOMAR = Kiel (Germany), ENSTA = Bretagne (France)</i>		

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

ASPECT	<i>Contributor</i>	Viscoelastic study of glacial isostatic adjustment (GIA)	2023
TracTec	<i>Collaborator</i>	Public code for computing seafloor ages	2020
calcpi	<i>Developer</i>	Public code for computing anisotropic fabrics	2007
CitComS	<i>Contributor</i>	Community finite-element mantle convection code	2000

Comissions of Trust

Associate Editor	<i>Geochemistry, Geophysics, Geosystems (G³)</i>	2015-now
Editorial Board	<i>Evolving Earth</i>	2023-now
Editorial Board	<i>Global and Planetary Change</i>	2021-now
Norwegian Ref. Group	Polar Expert Group (PEG) within EU-PolarNet 2	2021-2024
Norway Representative	Knowledge Hub on Sea Level Rise (European Commission)	2021-2024
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	<i>Geological Society of America Bulletin</i>	2014-2016
Guest Editor	<i>Plate Tectonics & Deep Earth Dynamics (Tectonophysics issue)</i>	2017-2020
Guest 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	EAR proposals, National Science Foundation (USA)	2009

Program Committee American Geophysical Union Fall Meeting (Tectonophysics) 2006-2007

Published Manuscripts (all peer-reviewed)

97. Wang⁵, Y., Á. Király, C. P. Conrad, and V. Maupin (2025), Mantle flow and anisotropy in subduction zones: modeling and clustering of olivine textures, *Geochemistry, Geophysics, Geosystems*, 26, e2025GC012160. <https://doi.org/10.1029/2025GC012160>.
96. Wang⁵, Z.R., C. P. Conrad, S. Lebedev, G. Iaffaldano, and J. R. Hopper (2025), Depth-dependent azimuthal seismic anisotropy governed by Couette/Poiseuille flow partitioning in the asthenosphere, *Earth and Planetary Science Letters*, 667, 119527. <https://doi.org/10.1016/j.epsl.2025.119527>.
95. Ebbing, J., J.R. Hopper, C.P. Conrad, G. Milne, R. Steffen, J.C. Afonso, V.R. Barletta, A.M.G. Ferreira, J. Freienstein, S.E. Hansen, B.H. Heincke, G. Jones, S. Lebedev, M. Moorkamp, D.L. Schutt, and A. Wansing (2025), Importance of solid earth structure for understanding the evolution of the Greenland ice sheet, *Journal of the Geological Society*, 182, jgs2024-2291. <https://doi.org/10.1144/jgs2024-291>.
94. Wang³, H., V. Magni, and C. P. Conrad, and M. Domeier (2025), Hydrous regions of the mantle transition zone lie beneath areas of continental intraplate volcanism, *Geochemistry, Geophysics, Geosystems*, 26, e2024GC011901. <https://doi.org/10.1029/2024GC011901>.
93. Mohn, C. E., R. Caracas, and C. P. Conrad (2025), Lower mantle water distribution from *ab initio* proton diffusivity in bridgmanite, *Earth and Planetary Science Letters*, 649, 119095. <https://doi.org/10.1016/j.epsl.2024.119095>
92. Weerdesteijn¹, M. F. M., and C. P. Conrad (2024), Recent ice melt above a mantle plume track is accelerating the uplift of Southeast Greenland, *Communications Earth & Environment*, 5, 791. <https://doi.org/10.1038/s43247-024-01968-6>
91. Heyn, B. H., G. E. Shephard, and C. P. Conrad (2024), Prolonged multi-phase magmatism due to plume-lithosphere interaction as applied to the High Arctic Large Igneous Province, *Geochemistry, Geophysics, Geosystems*, 25, e2023GC011380. <https://doi.org/10.1029/2023GC011380>
90. Wang⁵, Y., Á. Király, C. P. Conrad, L. Hansen, and M. Fraters (2024), The importance of anisotropic viscosity in numerical models, for olivine textures in shear and subduction deformations, *tektonika*, 2, 157-173. <https://doi.org/10.55575/tektonika2024.2.1.67>
89. Ramirez¹, F., K. Selway, C. P. Conrad, V. Maupin, and M. Smirnov (2024), Lateral and radial viscosity structure of Fennoscandia inferred from seismic and magnetotelluric observations, *Physics of the Earth and Planetary Interiors*, 351, 107178. <https://doi.org/10.1016/j.pepi.2024.107178>
88. Ramirez¹, 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. Weerdesteijn¹, 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*, 24, 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. Weerdesteijn¹, 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. Ramirez¹, 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. Heyn², 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. Karlsen¹, 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. **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: Solid Earth*, 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. **Hartmann³, 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. **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>
73. 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>
72. 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>
71. **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>
70. **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>
69. 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>
68. 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>
67. **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>
66. **Watkins³, 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>
65. **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>
64. Dangendorff, 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.1610071114>
63. 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>
62. 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>

61. Veit³, 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>
60. Sames, B., M. Wagerich, 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>
59. 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>
58. 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>
57. 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>
56. 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>
55. 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>
54. 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>
53. 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>
52. 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>
51. 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>
50. 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>
49. Natarov³, 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>
48. 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>
47. 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>
46. 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>
45. 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>
44. 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>
43. 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: Solid Earth*, 116, B11103. <https://doi.org/10.1029/2011JB008270>
42. 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>

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38. 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>
37. **Fiedler⁴, 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>
36. **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>
35. **Conrad, C. P., B. Wu⁵**, 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>
34. 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>
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Group Member: ¹ PhD student; ² postdoc; ³ MS student; ⁴ undergraduate; ⁵ PhD secondary supervisor

Other Publications (perspectives, reviews, educational)

- Perspective** Conrad, C. P. (2015), How climate influences sea-floor topography, *Science*, 347, 1204-1205. <https://doi.org/10.1126/science.aaa6813>
- Blog** Conrad, C. P. (2017), How good were the old forecasts of sea level rise?, *EGU Geodynamics Blog*. <http://blogs.egu.eu/divisions/gd/2017/09/13/modern-day-sea-level-rise/>
- Blog** Sames, B., M. Wagreich, and C. P. Conrad (2016), Why do Cretaceous sea-level changes matter in today's global change discussions?, *IGCP 609 Popular Scientific Overview*.
- Book Review** 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>
- Obituary** Conrad, C. P., G. Ito, W. Smith, and D. Bercovici (2024), Pål Wessel (1959 – 2024), *IASPEI Newsletter*, June 2024. <http://iaspei.org/about/bios-obituaries/pal-wessel-1959-2024>
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- Meeting Note** Dalton, C. A., C. P. Conrad, and A. M. Trehu (2011), What is the lithosphere-asthenosphere boundary?, *EOS, Trans. AGU*, 92, 481. <https://doi.org/10.1029/2011EO510009>
- Thesis** Conrad, C. P. (2000), Effects of lithospheric strength on convection in the Earth's mantle, *PhD Thesis*, Massachusetts Institute of Technology, Cambridge, MA. <https://dspace.mit.edu/handle/1721.1/53042>

Group Member: ¹ PhD student; ² postdoc; ³ MS student; ⁴ undergraduate; ⁵ PhD secondary supervisor

Research Productivity (as of June 2025)

<u>Career</u>	<u>Since 2020</u>	
96	22	Peer-Reviewed Manuscripts in International Journals
7315	3008	Citations (Google Scholar)
46	31	H-index (Google Scholar)
37	7	Invited Keynote Presentations
55	7	Invited Departmental Seminars
269	72	Contributed Conference Abstracts