

Gregory F. Moore

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Education

Ph.D., Cornell University, 1977
 M.A., The Johns Hopkins University, 1974
 B.A., University of California, Santa Barbara, 1973

Professional Experience

Professor, University of Hawaii, 1988-present
 Date of first appointment: 12/1/88
 Date of tenure: 7/1/91
 Chair, Dept. Geology & Geophysics, 2010-2014
 Assoc. Chair, Dept. Geology & Geophysics, 1996-1997, 2004-2005, 2014-2015
 Chair, Marine Geophysics Division, HIG/SOEST, 1989-1994, 1997
 Visiting Research Scientist, IFREE/JAMSTEC, 2008-present
 Visiting Professor, Earth Observatory of Singapore, Aug-Nov, 2015
 Advisor to the Director General of CDEX/JAMSTEC, 1/2006-6/2008
 Visiting Professor, University of Tokyo, Ocean Research Institute, 2001
 Associate Professor, University of Tulsa, 1983-1988
 Research Geologist, Cities Service Research Lab, 1982-1983
 Assistant Research Geologist, Scripps Institution of Oceanography, 1979-1982
 Lecturer, Scripps Institution of Oceanography, 1980-1984
 Postgraduate Research Geologist, Scripps Institution of Oceanography, 1978-1979
 Postdoctoral Associate, Cornell University, 1977
 Research Assistant, Cornell University, 1974-1977
 Graduate Fellow, The Johns Hopkins University, 1973-1974

Professional Organizations

Geological Society of America (Fellow)
 American Geophysical Union
 Society of Exploration Geophysicists
 American Association of Petroleum Geologists
 Japan Geoscience Union
 Asia-Oceania Geoscience Society
 Myanmar Applied Earth Sciences Association (International Advisory Committee)

Marine Experience (Last 5 years)

Chief or Co-Chief Scientist:
 MGL1705/KM1713, R/V *Marcus Langseth* and R/V *Kilo Moana*, Hawaiian Arch seismics, 2017
 IODP Expedition 338, D/V *Chikyu*, NanTroSEIZE Kumano area, 2012-2013

Participant:

IODP Expedition 358, D/V *Chikyu*, Nankai Trough, 2018/9
 IODP Expedition 372, D/V *JOIDES Resolution*, Hikurangi Margin, 2017/8
 SO251, R/V *Sonne*, Multibeam, Parasound, ROV diving in Kumano Basin, 2016
 YOKOSUKA 15-10, R/V *Yokosuka*, AUV survey of Kumano Basin mud volcano, 2015

Current/Recent Instructional Activities

GG 423 – Marine Geology, Fall 2018

GG 135 – Natural Disasters and Human History (new Manoa Foundations Course – FGC), Sp 2018

GG 711 – Graduate Seminar – Multibeam Bathymetry, Fall 2017

GG 130 – Geologic Hazards, Sp 2017

GG 610 – Graduate Seminar, Fall 2016

Graduate Students:

Hannah Tilley, Ph.D. expected in 2021

Jason Lackey, Ph.D., 2019

Nipaporn Nakrong, M.S., 2019

BIBLIOGRAPHY (Last 10 years)

(* = Student or Post-doc First Author)

162. **Moore, G.F.**, Lackey, J.K., Strasser, M. and Yamashita, M., in press (accepted 16 July 2018), Submarine landslides on the Nankai Trough accretionary prism: *Submarine landslides: subaqueous mass transport deposits from outcrops to seismic profiles*, Am. Geophys. Union Monograph.
161. **Shiraishi, K.**, **Moore, G.F.**, Yamada, Y., Kinoshita, M., Sanada, Y., and Kimura, G., 2019, Seismogenic zone structures revealed by improved 3D seismic images in the Nankai Trough off Kumano: *Geochem., Geophys., Geosyst.*, doi: 10.1029/2018GC008173.
160. **Moore, G.F.**, Lin Thu Aung, R. Fukuchi, J.C. Sample, E. Hellebrand, A. Kopf, W. Naing, Win Min Than and Tin Naing Tun, 2019, Tectonic, diapiric and sedimentary chaotic rocks of the Rakhine coast, western Myanmar: *Gondwana Research*, v. , <https://doi.org/10.1016/j.gr.2019.04.006>.
159. *Lackey, J.K., **Moore, G.F.**, Strasser, M., 2018, Three-dimensional Mapping and Kinematic Characterization of Mass Transport Deposits Along the Outer Kumano Basin and Nankai Accretionary Wedge, Southwest Japan: *Prog. Earth Planet. Sci.*, Special Issue, v. 5/65, <https://doi.org/10.1186/s40645-018-0223-4>.
158. Ohira, A., Kodaira, S., **Moore, G.F.**, Fujiwara, T., Kaiho, Y., Miura, S., Fujie, G., 2018, Active-source seismic survey on the northeastern Hawaiian Arch: Insights into crustal structure and mantle reflectors: *Earth Planets Space*, 70:121, <https://doi.org/10.1186/s40623-018-0891-8>
157. Weiss, J.R., Ito, G., Brooks, B. A., Olive J.A., **Moore, G.F.**, and Foster, J.J., 2018, Formation of the frontal thrust zone of accretionary wedges: *Earth Planet. Sci. Lett.*, v. 495, p. 87-100.
156. *Lackey, J.K., **Moore, G.F.**, Strasser, M., Kopf, A., and Ferreira, C., 2018, Spatial and temporal cross-cutting relationships between fault structures and slope failures along the outer Kumano Basin and Nankai accretionary wedge, SW Japan: Lintern, D. G. et al., (eds) *Subaqueous Mass Movements*. Geological Society, London, Special Publications, 477, <https://doi.org/10.1144/SP477.10>
155. Azevedo, M.C., Alves, T.M., Fonseca, P.E., and **Moore, G.F.**, 2018, Strike-slip deformation reflects complex partitioning of strain in the Nankai accretionary prism (SE Japan): *Tectonophysics*, v. 723, p. 81-94, doi.org/10.1016/j.tecto.2017.11.023

154. Yamashita, M., Miura, S., **Moore, G.F.**, Nakanishi, A., Kodaira, S., Kaneda, Y., 2017, Bathymetric imaging of protothrust zone along the Nankai Trough: *Island Arc*, e12233, doi:10.1111/iar.12233.
153. *Taladay, K., Boston, **Moore, G.F.**, 2017, Gas-in-place estimate for potential gas hydrate concentrated zone in the Kumano Basin, Nankai Trough forearc, Japan: *Energies*, v. 10, #1552, doi:10.3390/en10101552.
152. *Boston, B., **Moore, G.F.**, Nakamura, Y., and Kodaira, S., 2017, Forearc Slope Deformation above the Japan Trench Megathrust: Implications for Subduction Erosion: *Earth Planet. Sci. Lett.*, v. 462, p. 26-34.
151. Laberg, J.S., Strasser, M., Alves, T.M., Gao, S., Kawamura, K., Kopf, A., and **Moore, G.F.**, 2016, Internal deformation of a muddy gravity flow and its interaction with the seafloor (Site C0018 of IODP Expedition 333, Nankai Trough, SE Japan): *Landslides*, v. 14, p. 849-860, doi: 10.1007/s10346-016-0766-7.
150. *Boston, B., **Moore, G.F.**, Jurado, M.J., and Sone, H., 2016, Deformation of the Nankai Trough inner accretionary prism: The role of inherited structures: *Geochem. Geophys. Geosyst.*, v. 17, p. 485-500, doi: 10.1002/2015GC006185.
149. **Moore, G.F.** and Strasser, M., 2015, Large mass transport deposits in Kumano Basin, Nankai Trough, Japan: Submarine Mass Movements and Their Consequences, G. Lamarche et al., eds., Springer, New York, p. 371-379.
148. **Moore, G.F.**, Boston, B.B., Strasser, M., Underwood, M.B., and Ratliff, R.A., 2015, Evolution of tectono-sedimentary systems in the Kumano Basin, Nankai Trough forearc: *Mar. Petrol. Geology*, v. 67, p. 604-616.
147. Van Tuyl, J., Alves, T. M., and **Moore G. F.**, 2015, Strain decoupling reveals variable seismogenic risk in SE Japan (Nankai Trough): *Geochem. Geophys. Geosyst.*, 16, 2025–2037, doi:10.1002/2015GC005778.
146. Hino, R., Tsuji, T., Bangs, N., Sanada, Y., Park, J-O, von Huene, R., **Moore, G.F.**, Araki, E. and Kinoshita, M., 2015, Qp structure of the accretionary wedge in the Kumano Basin, Nankai Trough, Japan, revealed by long-offset walk-away VSP: *Earth Planets Space*, v. 67, doi:10.1186/s40623-014-0175-x.
145. *Boston, B., **Moore, G.F.**, Nakamura, Y., and Kodaira, S., 2014, Outer-rise normal fault development and influence on near-trench décollement propagation along the Japan Trench, off Tohoku: *Earth, Planets, Space*, v. 66, # 135, p. 1-17, doi:10.1186/1880-5981-66-135.
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143. **Moore, G.F.**, Kanagawa, K., Strasser, M., Dugan, B., Maeda, L., Toczko, S., and IODP Exp 338 Sci. Party, 2014, IODP Expedition 338: NanTroSEIZE State 3: NanTroSEIZE plate boundary deep riser 2: *Sci. Dill.*, v. 17, p. 1-12, doi: 10.5194/sd-17-1-2014.
142. Bale, S., Alves, T.M., and **Moore, G.F.**, 2014, Distribution of gas hydrates on continental margins by means of a mathematical envelope: A method applied to the interpretation of 3D seismic data: *Geochem. Geophys. Geosyst.*, v. 15, p. 52-68, doi:10.1002/2013GC004938.

141. Alves, T.M., Kurtev, K., **Moore, G.**, and Strasser, M., 2014, Assessing the internal character, reservoir potential and seal competence of Mass-Transport Deposits using seismic texture: a geophysical and petrophysical approach: *AAPG Bull.*, v.98, p. 793-824.
140. Pickering, K.T., Underwood, M.B., Saito, S., Naruse, H., Kutterolf, S., Scudder, R., Park, J-O., **Moore, G.F.**, and Slagle, A., 2013, Depositional architecture, provenance, and tectonic/eustatic modulation of Miocene submarine fans in the Shikoku Basin: Results from NanTroSEIZE: *Geochem. Geophys. Geosyst.*, v. 14, doi:10.1002/ggge.20107.
139. **Moore, G.F.**, Boston, B.B., Sacks, A.F. and Saffer, D.M., 2013, Analysis of normal fault populations in the Kumano forearc basin, Nankai Trough, Japan: 1. Multiple orientations and generations of Faults from 3-D coherency mapping: *Geochem. Geophys. Geosyst.*, v. 14, doi:10.1002/ggge.20119
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137. *Strasser, M., Henry, P., Kanamatsu, T., Thu, M.K., **Moore, G.F.**, and IODP Exp. 333 scientists, 2012, Scientific drilling of mass-transport deposits in the Nankai accretionary wedge: First results from IODP Exp. 333: in Y. Yamada et al. (eds.), *Submarine Mass Movements and Their Consequences*, Advances in Natural and Technological Hazards, v. 31, Springer Book Series, p. 671-681.
136. Tsuji, T., Hino, R., Sanada, Y., Yamamoto, K., Park, J-O., No, T., Araki, E., Bangs, N., von Huene, R., **Moore, G.**, and Kinoshita, M., 2011, In situ stress state from walkaround VSP anisotropy in the Kumano Basin southeast of the Kii Peninsula, Japan: *Geochem. Geophys. Geosyst.*, v. 12, Q0AD19, doi:10.1029/2011GC003583.
135. Kinoshita, M., **Moore, G.F.**, and Kido, Y., 2011, Heat flow estimated from BSR and IODP borehole data: implication of recent uplifting of the imbricate thrust zone in the Nankai Trough off Kumano: *Geochem. Geophys. Geosyst.*, v. 12, doi:10.1029/2011GC003609.
134. Anma, R., Ogawa, Y., **Moore, G. F.**, Kawamura, K., Sasaki, T., Kawakami, S., Dilek, Y., Michiguchi, Y., Endo, R., Akaiwa, S., and Hirano, S., 2011, Structural Profile and Development of the Accretionary Complex in the Nankai Trough, Southwest Japan: Results of Submersible Studies, in Ogawa, Y., Anma, R., and Dilek, Y., eds., *Accretionary Prisms and Convergent Margin Tectonics in the Northwest Pacific Basin*, Volume 8, Springer Netherlands, p. 169-196, doi:10.1007/978-90-481-8885-7_8.
133. **Moore, G.F.**, Saffer, D., Studer, M., and Costa Pisani, P., 2011, Structural restoration of thrusts at the toe of the Nankai Trough accretionary prism off Shikoku Island: Implications for dewatering processes: *Geochem. Geophys. Geosyst.*, v. 12, Q0AD12, doi:10.1029/2010GC003453.
132. *Strasser, M., **Moore, G.F.**, Kopf, A., Underwood, M., Guo, J., and Screatton, E.J., 2011, Slumping and mass movement deposition in the Nankai forearc: Evidence from IODP drilling and 3-D reflection seismic data: *Geochem. Geophys. Geosyst.*, v. 12, Q0AD13, doi:10.1029/2010GC003431.
131. Kimura, G., **Moore, G.F.**, Strasser, M., Screatton, E., Curewitz, D., Streiff, C., and Tobin, H., 2011, Spatial and temporal evolution of the seismo-tsunamigenic splay fault in the Nankai Trough: *Geochem. Geophys. Geosyst.*, v. 12, Q0A008, doi:10.1029/2010GC003335.