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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 Emeritus, University of Hawaii, September 2020-present
Professor, University of Hawaii, 1988-August 2020
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, 2017
Visiting Research Scientist, JAMSTEC, 2008-present
Visiting Professor, GEOMAR, Kiel Germany, April-June, 2016
Visiting Professor, Earth Observatory of Singapore, August-November, 2015
Visiting Professor, Academia Sinica, Taipei, Taiwan, April-May, 2015
Advisor to the Director General of CDEX/JAMSTEC, Jan., 2006-June, 2008
Visiting Professor, University of Tokyo, Ocean Research Institute, 2001
Visiting Professor, University of California, Santa Cruz, 1994
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

Professional Recognition

Wing Ip Medal, Asia Oceania Geoscience Society, Awarded 3 August 2021
Excellence Professorship/Petersen Prize (€20,000), Kiel Univ., GEOMAR, April, 2016

Professional Organizations

Geological Society of America (Fellow)
American Geophysical Union
Society of Exploration Geophysicists
American Association of Petroleum Geologists
Geological Society of Japan
Myanmar Applied Earth Sci Assoc., Member of International Advisory Committee

Professional Activities

Member, NanTroSEIZE Project Management/Coordination Team, 2006—present
Associate Editor, Journal of Geophysical Research – Solid Earth, 2005 – 2011
Member, JOIDES Science Committee (SCICOM), Ocean Drilling Program, 1997-1998

Member, JOIDES Planning Committee (PCOM), Ocean Drilling Program, 1995-1996
Member, JOIDES Tectonics Panel (TECP), Ocean Drilling Program, 1993-1995
Member, JOIDES Site Survey Panel (SSP), Ocean Drilling Program, 1990-1993
Member, U.S. Science Advisory Committee (USSAC), 1989-1991 (Exec. Committee, 1991)
Member, Western Pacific Regional Panel, Ocean Drilling Program, 1987-1989
Member, Advisory Panel for Ocean Sciences Research, NSF Div. Ocean Sciences, 1987-89,97
Member, Editorial Board, Geology, 1984-1989

Marine Experience

Chief or Co-Chief Scientist:

MGL-17-05, KR-17-14, KM-17-14, OBS & 2D seismic survey of NE Hawaiian Arch, 2017
IODP Expedition 338, D/V *Chikyu*, NanTroSEIZE Kumano area, 2012-2013
KM1106, R/V *Kilo Moana*, Hawaii Arch multibeam survey—student cruise, 2011
Kumano 3D survey, S/V *Nordic Explorer*, Nankai Trough, 2006
EW0202, R/V *Maurice Ewing*, Mariana Arc MCS survey, 2002
ODP Leg 190, D/V *JOIDES Resolution,* Nankai Trough, 2000
EW9907/08, R/V *Maurice Ewi*ng, Nankai Trough 3-D MCS survey, 1999
EW9801, R/V *Maurice Ewing*, Kilauea south flank MCS survey, 1998
MW9719, R/V *Moana Wave*, HMR1 and seismic study Mariana forearc/backarc, 1997
EW9507, R/V *Maurice Ewing*, Taiwan collision MCS survey, 1995
ORVSP, R/V *New Horizon*, Oregon margin offset VSP and seismic survey, 1992
EW9207, R/V *Maurice Ewing*, Barbados 3-D seismic survey, 1992
FM8706, R/V *Fred Moore*, Nankai Trough 2 ship ESP and MCS, 1987
FM8705, R/V *Fred Moore*, Seismic reflection survey, Bonin Arc, 1987
TT200, R/V *T. Thompson*, Deep-towed hydrophone experiment, Mid-America Trench, 1986
MW8507, R/V *Moana Wave*, SeaMARC II and seismic study, South Panama margin, 1985
ARIADNE, Leg 3, R/V *T. Washington,* Seabeam and seismic study, Mid-Am Trench, 1982
PLUTO, Leg 1, R/V *Melville*, Deep-Tow survey, Middle America Trench, 1981
RAMA, Leg 6, R/V *T. Washington*, Seismic reflection/refraction study, Sunda Trench, 1980
RAMA, Leg 5, R/V *T. Washington*, Seismic reflection/refraction study, Java Trench, 1980
GUAYMAS, Legs 1 and 2, R/V *T. Washington*, Gulf of Calif. seismic reflection survey, 1978

Participant:

IODP Expedition 358, D/V *Chikyu*, Nankai Trough, 2018-2019
IODP Expedition 372, D/V *JOIDES Resolution*, Hikurangi margin, New Zealand, 2017-2018
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
KM1006, R/V *Kilo Moana*, Hawaii Arch multibeam survey—student cruise, 2010
IODP Expedition 314, D/V *Chikyu*, Nankai Trough, 2007
YOKOSUKA 05-08, R/V *Yokosuka*, Shinkai 6500 Diving, Nankai Trough, 2005.
YOKOSUKA 02-05, R/V *Yokosuka*, Shinkai 6500 Diving, Hawaiian Arch/Moat, 2002
KAIREI 01-12, R/V *Kairei*, Hawaiian Arch/Moat, 2001

ODP Leg 171A, D/V *JOIDES Resolution*, Barbados Ridge, 1996/7
ODP Leg 156, D/V *JOIDES Resolution*, Barbados Ridge, 1994
ODP Leg 131, D/V *JOIDES Resolution,* Nankai Trough, 1990
INDOPAC, Leg 12, R/V *T. Washington*, Sunda Trench, 1978
COCOTOW, Leg 4, R/V *Melville*, Galapagos Spreading Center, Mid-Am Trench, 1974

BIBLIOGRAPHY

Citations of Published Papers (From Google Scholar, 20 December 2022)

Citations	10344
h-index	62
i10-index	135

(* = Student or Post-doc First Author)

170. Bassett, D., Arnulf, A., Kodaira, S., Nakanishi, A., Harding, A., **Moore, G.F.**, 2022, Crustal structure of the Nankai subduction zone revealed by two decades of onshore-offshore and ocean-bottom seismic data: Implications for the dimensions and slip behavior of the seismogenic zone: *Jour.Geophys. Res*., v. ; doi: 10.1029/2022JB024992.

169. *Cornard, P. H., Moernaut, J., **Moore, G. F.**, Kioka, A., Kopf, A., dos Santos Ferreira, C., and Strasser, M., 2022, Sequence stratigraphic evolution of the Kumano forearc basin during the last deglaciation: Influence of eustatic and tectonically-controlled shelf morphology on deep-marine sediment dynamics: *Sedimentary Geology*, 106100. doi:https://doi.org/10.1016/j.sedgeo.2022.106100

168. Hashimoto, Y., Sato, S., Kimura, G., Kinoshita, M., Miyakawa, A., **Moore, G. F.**, Nakano, M., Shiraishi, K., and Yamada, Y., 2022, Décollement geometry controls on shallow very low frequency earthquakes: *Scientific Reports*, v. 12(1), 2677. doi:10.1038/s41598-022-06645-2

167. Arnulf, A., Bassett, D., Harding, A., Kodaira, S., Nakanishi, A., and **Moore, G.F.**, 2022, Upper-plate controls on subduction zone geometry, hydration and earthquake behaviour: *Nature Geoscience*, v. 15, No. 2

166. *Tilley, H.L., **Moore, G.F.**, Underwood, M.B., Hernandez-Molina, J., Yamashita, M., Kodaira, S., and Nakanishi, A., 2021, Heterogeneous sediment input at the Nankai Trough subduction zone: Implications for shallow slow earthquake localization: *Geochem., Geophys., Geosyst.*, v. *22*, e2021GC009965. https://doi.org/10.1029/2021GC009965.

165. Maunde, A., Alves, T.M., and **Moore, G.F.**, 2021, Shallow fault systems of thrust anticlines responding to changes in accretionary prism lithology (Nankai, SE Japan): *Tectonophysics*, v. 812, 228888, https://doi.org/10.1016/j.tecto.2021.228888

164. Umino, S., **Moore, G. F.**, Boston, B., Coggon, R., Crispini, L., D'Hondt, S., . . . Inagaki, F., 2021, Workshop report: Exploring deep oceanic crust off Hawai`i: *Sci. Dril., 29*, 69-82. doi:10.5194/sd-29-69-2021

163. *Tilley, H.L., **Moore, G.F.**, Yamashita, M., and Kodaira, S., 2021, Along-strike variations in protothrust zone characteristics at the Nankai Trough subduction margin: *Geosphere*, v. 17, No.2, doi:10.1130/GES02305.1

162. Asada, M., **Moore, G.F.**, Kawamura, K., Noguchi, T., 2021, A mud volcano located at a fault zone possibly linked to seismogenic faults in the Kumano Basin, Nankai Trough, Japan: Marine Geophysical Research, v. 42:4, doi: 10.1007/s11001-020-09425-7.

161. Ito, G. and **Moore, G.F.**, 2021, Widths of imbricate thrust blocks and the strength of the front of accretionary wedges and fold-and-thrust belts: Tectonophysics, v. 799, #228704.

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160. Lin Thu Aung, Kyaw Zin Oo, Kyaw Myo Min, **Moore, G.F.**, Soe Thura Thun and Win Naing, 2020, Active deformation of the Central Myanmar Forearc Basin: Insight from post-Pleistocene inversion of the Pyay Fault: Jour. Asian Earth Sci: X, v. 4 , #100037.

159. Barnes, P.M., Wallace, L.M., Saffer, D.M., Bell, R.E., Underwood., Fagerang, A., …, Moore, G.F., et al., 2020, Slow slip source characterized by lithological and geometric heterogeneity, Sci. Advances., v. 6, 13, eaay3314.

158. **Moore, G.F.**, Lackey, J.K., Strasser, M. and Yamashita, M., 2019, Submarine landslides on the Nankai Trough accretionary prism: *Submarine landslides: subaqueous mass transport deposits from outcrops to seismic profiles,* Am. Geophys. Union Monograph 246, p. 247-259.

157. 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.

156. **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. 74, 126-143. https://doi.org/10.1016/j.gr.2019.04.006.

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154. *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

153. 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.

152. *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

151. 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

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149. *Taladay, K., Boston, B.B. and **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.

148. *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.

147. 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.

146. *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.

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144. **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.

143. 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.

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141. *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.

140. Alves, T.M., Strasser, M., and **Moore, G.F.**, 2014, Erosional features as indicators of thrust fault activity (Nankai Trough, Japan): Marine Geology, v. 356, p.5-18, doi:10.1016/j.margeo.2013.07.011.

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136. 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.

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133. *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.

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anisotropy in the Kumano Bain southeast of the Kii Peninsula, Japan: *Geochem. Geophys. Geosyst.,* v. 12, Q0AD19, doi:10.1029/2011GC003583.

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129. **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.

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126. Anma, R., Ogawa, Y., Kawamura, K., **Moore, G.F**., Sasaki, T., and Kawakami S., 2010, Structures, textures, physical properties of accretionary prism sediments and fluid flow near the Splay Fault zone in the Nankai Trough, off Kii peninsula: Jour. Geol. Soc. Japan, v. 116, p. 637–660 (in Japanese with English abstract).

125. Gulick, S.P.S., Bangs, N.L.B., **Moore, G.F.**, Ashi, J., Martin, K.M., Sawyer, D.S., Tobin, H.J., Kuramoto, S., and Taira, A., 2010, Rapid forearc basin uplift and megasplay fault development from 3D seismic images of Nankai Margin off Kii Peninsula, Japan: *Earth Planet. Sci. Lett.*, v. 300, p. 55-62, doi:10.1016/j.epsl.2010.09.034.

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114. *Oakley, A.J., Taylor, G., **Moore, G.F.,** and Goodliffe, A., 2009, Sedimentary, volcanic, and tectonic processes of the central Mariana Arc: Mariana Trough back-arc basin formation and the West Mariana Ridge: *Geochem. Geophys. Geosyst*., v.10, Q08X07, doi:10.1029/2008GC002312.

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111. *Tsuji, T., Tokuyama, H., Costa Pisani, P., and **Moore, G.**, 2008, Effective stress and pore pressure in the Nankai accretionary prism off the Muroto Peninsula, southwestern Japan: *Jour. Geophys. Res*., v. 113, B11401, doi:10.1029/2007JB005002, 19 p.

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3. Strasser, M., Dugan, B., Kanagawa, K., Moore, G.F., Toczko, S., Maeda, L., and the Expedition 338 Scientists, NanTroSEIZE Stage 3:NanTroSEIZE Plate Boundary Deep Riser 2, *Proc. IODP*, 338: Yokohama (Integrated Ocean Drilling Program). **doi:10.2204/iodp.proc.338.2014**

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1. **Moore, G.F**., Taira, A., Klaus, A., et al., 2001, Proc. ODP, Init. Repts., v. 190, College Station, TX.

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3. **Moore, G.F.**, Sawyer, D.S., Sanada, Y., and IODP Expedition 314 Sci. Party, 2008, Real-time depth updating of seismic reflection data during drilling using seismicVISION: Proc. 12th Int. Symposium on Recent Advances in Exploration Geophysics: Kyoto Univ., p. 21-24.

2. **Moore, G.F.**, and Morgan, J.K., 1999, Variations in structure along the Nankai Trough: Seismic reflection images and plans for future experiments: *in*: Proceedings of the International Workshop on Recurrence of Great Interplate Earthquakes and Its Mechanism, Science and Technology Agency, Tokyo, Japan, p. 107-113.

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Non-Peer Reviewed Publications

7. Boston, B., Howell, S., **Moore, G.**, 2014, A miniature research vessel: A small-scale ocean-exploration demonstration of geophysical methods: *The Leading Edge,* 33 (12), 1408-1409.

6. **Moore, G.F.**, 2009, Review of 3-D Seismic Interpretation by M. Bacon, R. Simm and T. Redshaw: *EOS* v. 90, p. 161.

5. Shipley, T., and **Moore, G.F**., 2000, NSF considers recommendations for marine seismic reflection: EOS, v. 81, p. 373.

4. **Moore, G.F.**, and Shipley, T.H., 1987, Marine sediments: *1987 McGraw-Hill Yearbook of Science and Technology*, p. 289-290.

3. **Moore, G.F.**,1986, Review of F. Burkhardt and S. Smith (Eds.), The correspondence of Charles Darwin, V. 1, 1821-1836: *Geology*, v. 14, p. 815

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Student Supervision

Graduate Student Degrees at University of Hawaii:

Ph.D.

Hannah Tilley, 2021
Jason Lackey, 2019
Brian Boston, 2015
Toshihiro Ike, 2007
Zhiyong Zhao, 1998
Mary MacKay, 1994

M.S.

Nipaporn Nakrong, 2019
Katie Taladay, 2015
Jessica Barnes, 2013
Ben Studer, 2006
Melody Eckmier, 2006
Stephen Leslie, 2001

Post-doctoral Researchers Supported

10/09 – 12/10	Yi-Ching Yeh
7/03 – 9/06	Patrizia Costa-Pisani
1/99 - 8/99	Zhiyong Zhao
3/93 - 11/93	Joe Dellinger
9/92 - 4/93	Shin'ichi Kuramoto