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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, 2010-2013  
Chair, Marine Geophysics Division, HIG/SOEST, 1989-1994, 1997  
Assoc. Chair, Dept. Geology & Geophysics, 1996-1997, 2004-2005  
Visiting Research Scientist, IFREE/JAMSTEC, 2008-present  
Advisor to the Directory General of CDEX/JAMSTEC, 2006-2008  
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

***Professional Activities***

Associate Editor, Journal of Geophysical Research – Solid Earth, 2005 - present  
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, 1997  
Secretary, Geophysical Society of Tulsa, 1986-87  
Chairman, National Oceanographic Reflection Profiling Organization (NORPO), 1984-1987  
Member, Editorial Board, Geology, 1984-1989

## ***Marine Experience***

### Chief or Co-Chief Scientist:

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 Ewing*, 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, Middle 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:

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

## Recent Publications

(\* = Student or Post-doc First Author)

- Underwood, M.B., and **Moore, G.F.**, 2012, Evolution of sedimentary environments in the subduction zone of southwest Japan: recent results from the NantroSEIZE Kumano transect: in: Busby, C. and Perez, A. (eds.), *Tectonics of Sedimentary - Basins Recent Advances*: Wiley-Blackwell, p.310-326 .
- \*Strasser, M., Henry, P., Kanamatsu, T., Thu, M.K., **Moore, G.F.**, and IODP Exp. 333 scientists, in review, 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.
- 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.
- 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.
- 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.
- 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.
- \*Strasser, M., **Moore, G.F.**, Kopf, A., Underwood, M., Guo, J., and Screaton, 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.
- Kimura, G., **Moore, G.F.**, Strasser, M., Screaton, 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.
- 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).
- 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.

- Bangs, N.L., Hornbach, M.J., **Moore, G.F.**, and Park, J-O., 2010, Massive methane release triggered by seafloor erosion offshore southwestern Japan: *Geology*, v. 38, p. 1019-1022, doi: 10.1130/G31491.1.
- Park, J-O., Fujie, G., Wjerathne, L., Hori, T., Kodaira, S., Fukao, Y., **Moore, G.F.**, Bangs, N.L., Kuramoto, S., and Taira, A., 2010, A low velocity zone with weak reflectivity along the Nankai subduction zone: *Geology*, v. 38, p. 283-286, doi: 10.1130/G30205.1.
- \*Becker, N.C., Fryer, P., and **Moore, G.F.**, 2010, Malaguana-Gadao Ridge: Identification and implications of a magma chamber reflector in the southern Mariana Trough: *Geochem. Geophys. Geosyst.*, v. 11, Q04X13, doi:10.1029/2009GC002719.
- \*Martin, K. M., Gulick, S.P., Bangs, N.L., **Moore, G. F.**, Ashi, J., Park, J.-O., Kuramoto, S., and Taira, A., 2010, Possible Strain Partitioning Structure Between the Kumano Forearc Basin and the Slope of the Nankai Trough Accretionary Prism: *Geochem. Geophys. Geosyst.*, v. 11, Q0AD02, doi:10.1029/2009GC002668.
- Minato, S., Tsuji, T., Noguchi, T., Shiraiishi, K., Matsuoka, T., Fukao, Y., and **Moore, G.**, 2009, Estimation of detailed temperature distribution of sea water using seismic oceanography: *Butsuri Tansa*, v. 62(5), p. 509-520 (in Japanese with English abstract).
- Screaton, E., Kimura, G., Curewitz, D., **Moore, G.**, et al., 2009, Interactions between deformation and fluids in the frontal thrust region of the NanTroSEIZE transect offshore the Kii Peninsula, Japan: Results from IODP Expedition 316 Sites C0006 and C0007: *Geochem. Geophys. Geosyst.*, v.10, Q0AD01, doi:10.1029/2009GC002713.
- \*Strasser, M., **Moore, G.F.**, Kimura, G., Kitamura, Y., Kopf, A., J., Lallemand, S., Park, J-O., Screaton, E.J., Su, X., Underwood, M.B., Zhao, X., 2009, Origin and evolution of a splay fault in the Nankai accretionary wedge: *Nature Geosci.*, v. 2, p. 648-651 , doi: 10.1038/ngeo609.
- Kawamura, K., Ogawa, Y., Anma, R., Yokoyama, S., Kawakami, S., Dilek, Y., **Moore, G.F.**, et al., 2009, Structural architecture and active deformation of the Nankai accretionary prism, Japan: Submersible survey results from the Tenryu submarine canyon: *Geol. Soc. Amer. Bull.*, v. 121, p. 1629-1646, doi: 10.1130/B26219.1.
- Bangs, N.L.B., **Moore, G.F.**, Gulick, S.P.S., Pangborn, E.M., Tobin, H.J., Kuramoto, S., and Taira, A., 2009, Broad, weak regions of the Nankai Megathrust and implications for shallow coseismic slip: *Earth Planet. Sci. Lett.*, v. 284, p. 44-49, doi:10.1016/j.epsl.2009.04.026.
- \*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.
- Tsuji, T., Park, J-O., **Moore, G.**, Kodaira, S., Fukao, Y., Kuramoto, S., and Bangs, N., 2009, Intraoceanic Thrusts in the Nankai Trough off the Kii Peninsula: Implications for Intraplate Earthquakes: *Geophys. Res. Lett.*, v. 36, L06303, doi:10.1029/2008GL036974.
- Moore, G.F.**, Park, J.-O., Bangs, N.L., Gulick, S.P., Tobin, H.J., Nakamura, Y., Saito, S., Tsuji, T., Yoro, T., Tanaka, H., Uraki, S., Kido, Y., Sanada, Y., Kuramoto, S., and Taira, A., 2009, Structural and seismic stratigraphic framework of the NanTroSEIZE Stage 1 transect. In Kinoshita, M., Tobin, H., Ashi, J., Kimura, G., Lallemand, S., Screaton, E.J., Curewitz, D., Masago, H., Moe, K.T., and the Expedition 314/315/316 Scientists, *Proc. IODP*, 314-315-316: College Station, TX (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.314315316.102.2009

- \*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.
- \*Chapp, E., Taylor, B., Oakley, A., **Moore, G.F.**, 2008, A seismic Stratigraphic analysis of Mariana forearc basin evolution: *Geochem. Geophys. Geosyst.*, v. 9, Q10X02, doi:10.1029/2008GC001998.
- \*Oakley, A. J., B. Taylor, and **G. F. Moore**, 2008, Pacific Plate subduction beneath the central Mariana and Izu-Bonin fore arcs: New insights from an old margin: *Geochem. Geophys. Geosyst.*, v. 9, Q06003, doi:10.1029/2007GC001820.
- \*Ike, T., **Moore, G.F.**, Kuramoto, S., Park, J-O., Kaneda, Y., and Taira, A., 2008, Variations in sediment thickness and type along the northern Philippine Sea Plate at the Nankai Trough: *Island Arc*, v. 17, p. 324-357, doi:10.1111/j.1440-1738.2008.00624.x
- \*Ike, T., **Moore, G.F.**, Kuramoto, S., Park, J-O., Kaneda, Y., and Taira, A., 2008, Tectonics and sedimentation around Kashinosaki Knoll: A subducting basement high in the eastern Nankai Trough: *Island Arc*, v. 17, p. 358-375, doi:10.1111/j.1440-1738.2008.00625.x
- \*Oakley, A.J., Taylor, B., Fryer, P., **Moore, G.F.**, Goodliffe, A.M., and Morgan, J.K., 2007, Emplacement, growth, and gravitational deformation of serpentinite seamounts on the Mariana forearc: *Geophys. Jour. Int.*, v. 170, p. 615-634.
- Moore, G.F.**, Bangs, N.L., Taira, A., Kuramoto, S. Pangborn, E., and Tobin, H.J., 2007, Three-dimensional splay fault geometry and implications for tsunami generation: *Science*, v. 318, p. 1128-1131. doi: [10.1126/science.1147195](https://doi.org/10.1126/science.1147195).