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Present Positions

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Education

1966 **BSc.**, (Paleontology), California State University, Long Beach

1969 **MSc.**, (Geophysics), California State University, San Jose

1977 **PhD.**, (Marine Geology), Stanford University

Professional Experience

1966-1994	Marine Geologist, Program Manager , U.S. Geological Survey, (USGS), Menlo Park, CA
1994-1998	Director , Moss Landing Marine Labs
1998-2008	Senior Scientist , Monterey Bay Aquarium Research Institute (MBARI)
1998-2006	Professor/Researcher , Marine Geology, Moss Landing Marine Labs
2006-present	Professor Emeritus/Researcher , Moss Landing Marine Labs Director , Center for Habitat Studies and Tombolo Institute, Orcas Island, Washington
2006-Present	Research Scientist , Friday Harbor Labs, University of Washington

Professional Organizations

California Academy of Sciences, **Fellow**
American Geophysical Union (AGU), **Member**
American Association of Petroleum Geologists (AAPG), National and Pacific Section, **Member**
Sigma Xi, **Member**
American Association for the Advancement of Science (AAAS), **Member**
Circum-Pacific Council (CPC), **President/Treasurer**
GeoHab, **Treasurer**
South Pacific Geoscience Commission (SOPAC), **Technical Advisor**

Awards

1985	Special Achievement Award, USGS
1986	Meritorious Service Award, U.S. Dept. of Interior, USGS
1998	Nominated for a Pew Fellowship in Conservation and the Environment
1999	Sanctuary Currents Award '99 for Science and Research, NOAA, Monterey Bay National Marine Sanctuary and the Association of Monterey Bay Area Governments (AMBAG)
2009	APEX 2009 Award of Excellence in the Web and Electronic Publication category (Reynolds, J., and Greene, H.G., Eds., Marine Habitat Mapping Technology for Alaska, Alaska Sea Grant, Fairbanks, CD)

Oceanographic Expeditions

Chief Scientist or *Co-Chief Scientist* on over 250 oceanographic cruises, many associated with academic (UNOLS), international institutions and government agencies. American Co-Chief Scientist aboard the *JOIDES Resolution* during Leg 134.

Selected Significant Publications in chronological order. Authored or Co-authored a total over **300** reports, papers, abstracts, and maps. Co-edited five books, senior editor of two.

- Greene, H.G.**, Yoklavich, M.M., Starr, R., O'Connell, V.M., Wakefield, W.W., Sullivan, D.L. MacRea, J.E. and Cailliet, G.M., 1999. A classification scheme for deep-water seafloor habitats: *Oceanographica ACTA*, v. 22, n. 6, p. 663-678.
- Auzende, J.-M. and **Greene, H.G.** (Eds.), 1999: Special Issue of *Oceanologica Acta*, v. 22, n. 6, Marine Benthic Habitats, 726 p.
- Yoklavich, M.M., **Greene, H.G.**, Cailliet, G.M., Sullivan, D.E., Lea, R.N. and Love M.S., 2000, Habitat association of deep-water rockfishes in a submarine canyon: an example of a natural refuge: *Fisheries Bulletin*, v. 98, p. 625-641.
- Greene, H.G.**, Yoklavich, M.M., O'Connell, V.M., Starr, R.M., Wakefield, W.W. and Cailliet, G.M., 2000, Mapping and classification of deep seafloor habitats: *ICES paper CM 2000/T:08*, 11 p.
- Paull, C.K., **Greene, H.G.**, Ussler, W. III and Mitts, P.J., 2003. Pesticides as tracers of sediment transport through Monterey Canyon: *Geo-Marine Letters*, v. 22, p. 121-126.
- Eichhubl, P., **Greene, H.G.**, Naehr, T., and Maher, N., 2001, Structural control of fluid flow: Offshore fluid seepage in the Santa Barbara Basin, California: *Jour. Geochemical Exploration*, 69-70.
- Eichhubl, P., **Greene, H.G.**, and Maher, N., 2002, Physiography of an active transpressive margin basin: high-resolution bathymetry of the Santa Barbara Basin, southern California Continental Borderland: *Marine. Geology*, 181. p. 95-120.
- Greene, H. G.**, Maher, N. and Paull, C., 2002. Physiography of the Monterey Bay region and Implications about continental margin development. *Marine Geology*, 181, p. 55-82
- Paull, C.K., **Greene, H.G.**, Ussler, W. III and Mitts, P.J. 2002. Pesticides as tracers of sediment transport through Monterey Canyon. *Geo-Marine Letters* DOI 10.1007/s00367-002-0110-1
- Paull, C., Ussler III, W., Maher, N., **Greene, H.G.**, Rehder, G., Lorenson, T., and Lee, H., 2002. Pockmarks off Big Sur, California: *Marine Geology*, 181, p. 323-335.
- Wagner, D. and **Greene, H.G.**, (2002). Geologic map of the Monterey region: *California Division of Mines and Geology Regional Map Series*, scale 1:100,000 and CD-ROM.
- Davis, A.S., Clague, D.A., Bohrsen, W.A., Dalrymple, G.B., and **Greene, H.G.**, 2002. Seamounts at the continental margin of California: a different kind of oceanic intraplate volcanism. *Geological Society of America Bull.*, 114(3), p. 316-333.
- Orange, D.L., Yun, J., Maher, N., Barry, J. and **Greene, G.** 2002. Tracking California Seafloor Seeps with Bathymetry, Backscatter and ROVs: *Continental Shelf Research* 22. p. 2273-2290.
- Greene, H.G.**, and Ward, 2003. Mass movement features along the central California margin and their modeled consequences for tsunami generation. In Locat, J. and Mienert, J. (eds.), *Submarine mass movements and their consequences*: Kluwer Academic Publishers, p. 242-356.
- Paull, C.K., **Greene, H.G.**, Ussler, W. III and Mitts, P.J., 2003. Pesticides as tracers of sediment transport through Monterey Canyon: *Geo-Marine Letters*, 22: p. 121-126.
- Paull, C.K., Ussler, W., III, **Greene, H.G.**, Keaton, R., Mitts, P., and Barry, J., 2003. Caught in the act: the December 20th gravity flow event in Monterey Canyon: *Geo-Marine Letters*, 22: p. 227-232.
- Paull, C.K., Ussler, W. III, Schlining, B., Paduan, J. Caress, D, **Greene, H.G.**, and Barry, J., 2003. Holocene slide scars as the dominant location for chemosynthetic biological communities in Monterey Bay. *Geol. Soc. Amer. Abstracts with Program*, 34(7): p. 288.
- Paull, C.K., Mitts, P.J., **Greene, H.G.**, Ussler, W., III, and Keaton, R., 2004. Trail of sand in upper Monterey Canyon. Submitted, *GSA Bulletin*.
- Kogan, I, Paull, C.K., Kuhnz, L., Burton, E.J., Von Thun, S., **Greene, H.G.**, and Barry, J.P., 2003 Environmental Impact of a submarine Cable: Case Study of the Acoustic Thermometry of Ocean Climate (ATOC) /Pioneer Seamount Cable, 80 p., <ftp://ftp.mbari.org/pub/ATOC/>

- Conway, M., Prickett, R., Erickson, J., Paull, C., Graves, D., Ussler, W III, Mitts, P., and **Greene, H.G.**, 2003, Vibracore sediment sampling using ROV's, Underwater Intervention Conference, New Orleans, February 11, 2003, 5 p.
- Paull, C.K., Schlining, B., Ussler, W., III., Paduan, J., Caress, D., and **Greene, H.G.**, 2003, Distribution of seafloor seepage indicators under Monterey Bay, California, *Geophysical Research Abstracts*, vol. 5, p. 07690.
- Lee, H.J., Normark, W.R., Fisher, M.A., **Greene, H.G.**, Edwards, B.D., and Locat, J., 2004. Timing and extent of submarine landslides in southern California. *Offshore Technology Conference, OTC Paper Number 16744* (in press).
- Dickenson, W.R., Ducea, M., Rosenberg, L., **Greene, H.G.**, Graham, S.A., Clark, J.C., Weber, G.E., Kidder, S., Ernst, W.G., and Brabb, E., 2005. Net dextral slip, Neogene San Gregorio-Hosgri Fault Zone, coastal California. *Geological Society of America, Special Paper 391*, 43 p.
- Fisher, M.A., **Greene, H.G.**, Normark, W.R., and Sliter, R.W., 2005. Neotectonics of the offshore Oak Ridge Fault near Ventural, Southern California. *Bull. Seismological Soc. Amer.*, 95, 2, 739-744.
- Fisher, M. A., Normark, W. R., **Greene, H. G.**, Lee, H. J., and Sliter, R. W., 2005, Geology and tsunamigenic potential of submarine landslides in Santa Barbara Channel, southern California: *Marine Geology*, v. 224; doi 10.1016/j.margeo.2005.07.012, no. 1-4, p. 1-22.
- Greene, H.G.**, Bizzarro, J.J., Tilden, J.E., Lopez, H.L., and Erdey, M.D., 2005. The benefits and pitfalls of geographic information systems in marine benthic habitat mapping: *In* Wright, D.J. and Scholz, A.J., (Eds.), *Place Matters. Oregon State University Press*, Portland, OR, p. 34-46.
- Greene, H.G.**, O'Connell, V.E., Wakefield, W.W., and Brylinsky, C.K., 2007. The offshore Edgumbe lava field, southeast Alaska: geologic and habitat characterization of a commercial fishing ground: *In* Todd, B. J. and Greene, H.G. (Eds.), *Mapping the Seafloor for Habitat Characterization, Canadian Geological Association Special Paper 47*, p. 277-295.
- Greene, H.G.**, Bizzarro, J.J., O'Connell, V.M., and Brylinsky, C.K., 2007. Construction of digital potential marine benthic habitat maps using a coded classification scheme and its application: *In* Todd, B.J., and Greene, H.G. (Eds.), *Mapping the Seafloor for Habitat Characterization, Canadian Geological Association Special Paper 47*, p. 141-155.
- Greene, H.G.**, Vallier, T.V., Bizzarro, J.J., Watt, S., and Dieter, B.E., 2007. Impacts of bay floor disturbances on benthic habitats in San Francisco Bay: *In* Todd, B.J. and Greene H.G., (Eds.), *Mapping the Seafloor for Habitat Characterization. Geological Association of Canada, Special Paper 47*, p. 401-419.
- Watt, S., and **Greene, H.G.**, 2007. The effects of dredge material disposal on marine benthic habitats of the Santa Cruz bight, California: *In* Todd, B.J. and Greene H.G., (Eds.), *Mapping the Seafloor for Habitat Characterization. Geological Association of Canada, Special Paper 47*, p. 427-440.
- O'Connell, V.M., Brylinsky, C.K., and **Greene, H.G.**, 2007. The use of geophysical survey data in fisheries management: a case history: *In* Todd, B.J. and Greene H.G., (Eds.), *Mapping the Seafloor for Habitat Characterization, Geological Association of Canada, Special Paper 47*, p. 319-328.
- Shotwell, S.K., Heifetz, J., Courtney, D.L., and **Greene, H.G.**, 2007. Mapping marine benthic habitat in the Gulf of Alaska: geological habitat, fish distribution, and fishing intensity: *In* Todd, B.J. and Greene H.G., (Eds.), *Mapping the Seafloor for Habitat Characterization: Geological Association of Canada, Special Paper 47*, p. 349-368.
- Copps, S.L., Yoklovich, M.M., Parkes, G.B., Wakefield, W.W., Bailey, A., **Greene, H.G.**, Goldfinger, C., and Burn, R.W., 2007. Applying marine habitat data to fishery management on the US west coast: Initiating a policy-science feedback loop: *In* Todd, B.J. and Greene H.G., (Eds.), *Mapping the Seafloor for Habitat Characterization, Geological Association of Canada, Special Paper 47*, p. 451-462.
- Reynolds, R., and **Greene, H.G.**, (Eds.), 2008. Marine Habitat Mapping Technology for Alaska, *Alaska Sea Grant Program Report AK-SG-08-03 and CD-ROM*, Fairbanks, Alaska, 282 p.
- Greene, H.G.**, O'Connell, V., Brylinsky, C.K., and Reynolds, J.R., 2008. Marine benthic habitat classification: What's best for Alaska: *In* Reynolds, R., and **Greene, H.G.**, (Eds.), *Marine Habitat Mapping Technology for Alaska, Alaska Sea Grant Program Report AK-SG-08-03 and CD-ROM*, Fairbanks, Alaska, p. 169-184.
- Pacunski, R.E., Palsson, W.A., **Greene, H.G.**, and Gunderson, D., 2008. Conducting visual surveys with a small ROV in shallow water: *In* Reynolds, R., and **Greene, H.G.**, (Eds.), *Marine Habitat*

- Mapping Technology for Alaska: *Alaska Sea Grant Program Report AK-SG-08-03 and CD-ROM*, Fairbanks, Alaska, p. 109-128.
- Reynolds, J.R., **Greene, H.G.**, Woodby, D., Kurland, J., and Allee, B., 2008. Workshop Report: marine habitat mapping technology workshop for Alaska: *In Reynolds, R., and Greene, H.G., (Eds.), Marine Habitat Mapping Technology for Alaska: Alaska Sea Grant Program Report AK-SG-08-03 and CD-ROM*, Fairbanks, Alaska, p. 237-266.
- Barrie, J.V., Conway, K.W., Picard, K., and **Greene, H.G.**, 2009. Large scale sedimentary bedforms and sediment dynamics on a glaciated tectonic continental shelf: Examples from the Pacific margin of Canada: *Continental Shelf Research*, v. 29, n. 5-6, p. 796-806.
- Cochrane, G.R., and **Greene, H.G.**, 2009. Estimating rocky seafloor extent on the Southern California continental shelf: *In Lee, H.J., and Normark, W.R., (Eds.), Earth Science in the Urban Ocean, The Southern California Continental Borderland: Geological Society of America Special Paper 454*, p. 29-36.
- Lee, H.J., **Greene, H.G.**, Edwards, B.D., Fisher, M.A., and Normark, W.R., 2009. Submarine landslides of the Southern California Borderland: *In Lee, H.J., and Normark, W.R., (Eds.), Earth Science in the Urban Ocean: The Southern California Continental Borderland: Geological Society of America Special Paper 454*, p. 251-270.
- Greene, H.G.**, O'Connell, V.M. and Brylinsky, C.K., 2011. Tectonic and glacial related seafloor geomorphology as possible demersal shelf rockfish habitat surrogates – examples along the Alaskan convergent transform boundary. *Continental Shelf Research* v. 31, p. 539-553.
- Greene, H.G.**, Vallier, T., Endris, C., Goldern, N., Cross, J., Ryan, H., Dieter, B., and Niven, E., in press. Sub-Tidal Benthic Habitats of Central San Francisco Bay and Offshore Golden Gate Area, (2012), *Marine Geology*.
- Greene, H.G.**, and Barrie, Vaughn, 2011. Potential Marine Benthic Habitats of the San Juan Archipelago. Geological Survey of Canada Marine Map Series, 4 Quadrants, 12 sheets, scale 1:50,000.
- Greene, H.G.**, Wyllie-Echeverria, T., Gunderson, D., Bizzarro, J., Barrie, V., Fresh, K., Robinson, C., Cacchione, D., Penttila, D., Hampton, M., and Summers, A., 2011. Deepwater Pacific Sand Lance (*Ammodytes hexapterus*) Habitat Evaluation and Prediction in the Northwest Straits Region. Final Report to the Northwest Straits Commission, Mount Vernon, WA, 75 p.
- Yoklovich, M., and **Greene, H.G.**, 2012. The Ascension-Monterey Canyon System: Habitats of demersal fishes and macroinvertebrates along the central California coast of the USA: *in Harris, P.T., and Baker, E.K., Seafloor Geomorphology As Benthic Habitat, GeoHab Atlas of Seafloor Geomorphic Features and Benthic Habitats, Elsevier Insights, London*, p. 739-750.
- Barrie, J.V., **Greene, H.G.**, Conway, K.W., and Picard, K., 2012. Inlands tidal sea of the northeastern Pacific: *in Harris, P.T., and Baker, E.K., Seafloor Geomorphology As Benthic Habitat, GeoHab Atlas of Seafloor Geomorphic Features and Benthic Habitats, Elsevier Insights, London*, p. 623-634.
- Reynolds, J.R., Rooney, S.C., Heifetz, J., **Greene, H.G.**, Norcross, B.L., and Shotwell, S.K., 2012. Habitats and demersal fish communities in the vicinity of Albatross Bank, Gulf of Alaska; *in Harris, P.T., and Baker, E.K., Seafloor Geomorphology As Benthic Habitat, GeoHab Atlas of Seafloor Geomorphic Features and Benthic Habitats, Elsevier Insights, London*, p. 539-554.
- Barrie, J.V., Conway, K.W., Picard, K., and **Greene, H.G.**, 2013. Large scale sedimentary bedforms and sediment dynamics on a glaciated tectonic continental shelf: examples from the Pacific margin of Canada: *Continental Shelf Research* (2009).
- Harris, P.T., Barrie, J.V., Conway, K.W., **Greene, H.G.**, 2014. Hanging canyons of Haida Gwaii, British Columbia, Canada: fault-control on submarine canyon geomorphology along active continental margins: *Deep-Sea Research II*, 104, 83-92.
- Greene, H.G.**, 2015. Habitat characterization of a tidal energy site using an ROV – Overcoming difficulties in a harsh environment: *Continental Shelf Research*, 106, 85-96.
- Bizzarro, J.J., Peterson, A.N., Blaine, J.M., Balaban, J.P., **Greene, H.G.**, and Summers, A.P., 2016. Burrowing behavior, habitat, and functional morphology of the Pacific sand lance (*Ammodytes personatus*). *Fishery Bulletin*, 114(4), 445-460.
- Greene, H.G.**, Reynolds, J. R., and Todd, B.J., in press. Ice sheet features at the continental shelf edge, Albatross Bank, Alaska. *In Dowdeswell, J.A., Canals, M., Jakobsson, M., Todd, B.J., Dowdeswell, E.K. & Hogan, K.A. (eds.), Memoir 46 Atlas of Submarine Glacial Landforms: Modern, Quaternary and Ancient*, The Geological Society of London, 2016. DOI:xx.xxxx/xxx.x Dec.2016.