

Norman M. Maher

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Education

B.A., Geology, Humboldt State University, Arcata, CA, 1987

Graduate coursework in geology and marine habitat mapping (2000-2002), Moss Landing Marine Laboratories, Moss Landing, CA

Training

Current BOSIET and offshore medical certification; U.S. Coast Guard Boat safety and seamanship, PADI Openwater and Advanced SCUBA certification.
FAA Airman Certificate, Small Unmanned Aircraft System rating.

Employment

2011 – Present, Geophysicist/Offshore Client Rep, Fugro Geoconsulting, Inc., Houston, TX.

2015 – Present, On-call Geophysicist/Marine Geologist, Integral Consulting, Inc., Santa Cruz, CA.

2012 – 2014, GIS & Benthic Habitat Analyst, CSU Chico Research Foundation, Chico, CA

2010 – 2012, GIS & Benthic Habitat Analyst, SJSU Research Foundation, San Jose, CA

2009 – 2015, Consulting GIS Analyst, Sea Engineering, Inc., Santa Cruz, CA.

2001 – 2011, Marine Geologist/Geophysicist/GIS Analyst, AOA Geophysics, Moss Landing, CA.

1994 – 2001 Research Technician III, Monterey Bay Aquarium Research Institute, Moss Landing, CA.

1989 – 1994 Physical Science Technician, U.S. Geological Survey, Menlo Park, CA.

Relevant Experience

- Offshore sediment, geochemical, & biological sampling.
- Geophysical data collection including multibeam, sidescan, MCS, SBP, & magnetometer data.
- ROV physical and biological sampling and video transects.
- GIS analysis & cartography incorporating seafloor geophysical and geotechnical data, LiDAR, satellite and aerial imagery, sediment analytes, geologic information.
- Mapping eel grass beds using aerial imagery and high resolution multibeam.
- Unmanned Aerial Vehicle (UAV) operation, data collection, photogrammetry.
- Structure-from-motion 3-D modeling.

Maps & Publications

Greene, H.G., Endris, Maher, N., Dieter, B., Vallier, T., Kushner, D., and Harmsen, F. 2015. Marine Benthic Habitat Mapping of the Channel Islands National Park – Final Report to the Channel Islands National Park: *Center for Habitat Studies, Moss Landing Marine Labs*, Moss Landing, 35, 6 map sheets (scale 1:30,000).

Greene, H.G., Wyllie-Echeverria, S., Weaver, J., Maher, N., and Bizzorro, J., 2014. Marine benthic habitat mapping of the San Juan Island National Historical Park – Final Report to the San Juan Island National Historical Park: *SeaDoc Tomolo Mapping Lab, Orcas Island, WA*, 50, 7 map sheets (scale 1:7,500).

Greene, H.G., Endris, C., Becker, B., Dieter, B., Maher, N., Cross, J., Ryan, H., and Harmsen, F., 2012, Marine benthic habitat mapping of the Point Reyes National Seashore – Final Report to the Point Reyes National Marine Seashore: *Center for Habitat Studies, Moss Landing Marine Labs*, Moss Landing, 35, 7 map sheets (scale 1:48,000).

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- H. G. Greene, L. Y. Murai, P. Watts, N. M. Maher, M. A. Fisher, C. E. Paull, and P. Eichhubl, 2006, *Natural Hazards and Earth System Sciences*, 6, 63–88.
- García-García, A., Orange, D., Maher, N., Heffernan, A., Fortier, G. Malone, A., 2004, Geophysical evidence for gas geohazards off Iskenderun Bay, SE Turkey. *Marine and Petroleum Geology*, 21: 1255-1264.
- Orange, D. L., Yun, J., Maher, N., Barry, J. P., and Greene, H. G., 2002, Tracking California seafloor seeps with bathymetry, backscatter and ROVs. *Continental Shelf Research*, 22, 2, 273–2, 290.
- Paull, C. K., Ussler, W., III, Maher, N., Greene, H. G., Rehder, G., Lorenson, T., and Lee, H., 2002, Pockmarks off Big Sur, California. *Marine Geology*, 181, 323–335.
- 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*, 184, 95–120.
- Greene, H. G., Maher, N., and Paull, C. K., 2002, Physiography of the Monterey Bay National Marine Sanctuary and implications about continental margin development. *Marine Geology*, 181, 55–62.
- Clague, D. A., Maher, N., and Paull, C. K., 2001, High-resolution multibeam survey of Hydrate Ridge, offshore Oregon. In Paull, C. K. and Dillon, W. P., *Natural gas hydrate: Occurrence, distribution, and detection*, ed. 124, p. 297-303. Washington, D.C.: American Geophysical Union.
- Paull, C. K., Stratton, S., Conway, M., Brekke, K., Dawe, T. C., Maher, N., and Ussler III, W., 2001, Deep sea vibracoring system improves ROV sampling capability. *EOS, Transactions*, 82[30], 325-326.
- Clague, D. A., Zierenberg, R., Davis, A., Goffredi, S., McClain, J., Maher, N., Olsen, E., Orphan, V., Ross, S., and Damm, K. V., 2001, MBARI's 2000 expedition to the Gorda Ridge. *RIDGE Events*, 11, 5–12.
- Greene, H. G., Maher, N. M., and Paull, C. K., 2001, Physiography of the Monterey Bay National Marine Sanctuary and implications about continental margin development. *Marine Geology*.
- Plafker, G., Greene, H. G., Maher, N. M., and Synolakis, C., 2001, The destructive 1994 submarine landslide and tsunami at Skagway, Alaska: An example of a near shore submarine failure. Istanbul, Turkey.
- Hatcher, G. A., Jr. and Maher, N., 2000, Real-time GIS for marine applications. [Monograph] *Marine and coastal geographical information systems*. In Wright, D. J. and Bartlett, D. J., Taylor & Francis Publishing Services, Ltd.
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- Stakes, D., Orange, D., Paduan, J., Salamy, K., and Maher, N., 1999, Origin of authigenic cold-seep carbonates from Monterey Bay. *Marine Geology*, 159[1-4], 93-109.
- Stakes, D. S., Orange, D. L., Paduan, J. B., Salamy, K. A., and Maher, N., 1999, Cold-seeps and authigenic carbonate formation in Monterey Bay, California. *Marine Geology*, 159, 93-109.
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- Gregorio Fault in the Monterey Bay Region, California. Pacific Section, Amer. Assoc. Petroleum Geologists, Fieldtrip Guidebook and Syllabus, MP47.
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