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### Education

1993-1997 Ph.D. Geology, University of Florida, Gainesville, FL  
1989-1992 M.S. Geology, University of Florida, Gainesville, FL  
1985-1989 B.S. Geology, University of Michigan, Ann Arbor, MI

### Positions

2009-Present Senior Associate-In Geochemistry, Dept. of Geological Sciences, Univ. of Florida  
(state-funded, non-tenure accruing faculty position responsible for management of the  
Light Stable Isotope Mass Spectrometry Lab)  
2004-2009 Associate-In Geochemistry, Dept. of Geology, Univ. of Florida  
1998-2004 Assistant-In Geochemistry, Dept. of Geology, Univ. of Florida  
1997-1998 Post-Doctoral Research Fellow, Smithsonian Tropical Research Institute, Panama  
1989-1997 Research and Teaching Assistantships, Dept. of Geology and Dept. of Fisheries and  
Aquatic Sciences, Univ. of Florida  
1987-1989 Assistant, Light Stable Isotope Lab., Dept. of Geology, Univ. of Michigan

### Current job description

The main job duty for the manager of the Light Stable Isotope Mass Spectrometer laboratory in the Department of Geological Sciences is to oversee the operation, maintenance, and repair of the equipment in the lab, to finance the lab, and to supervise and instruct faculty, graduate students, and visitors carrying out analytical work in the lab. Additional job duties include research and service to the department and university.

### Dissertation (supervised by David A. Hodell)

*Climatic Variation in the Circum-Caribbean during the Holocene.* University of Florida, Gainesville. 149 pp. 1997.

### Thesis (supervised by David A. Hodell)

*Natural Variability of Late Pleistocene-Holocene Climates in the Caribbean from Isotopic and Trace Element Analysis of Lake Sediments (10,500 years bp to present).* University of Florida, Gainesville. 79 pp. 1992.

### Publications

(150) Martínez-Abarca R., L. Pérez, T. Bauersachs, F. Schenk, S. Kutterolf, M. Brenner, T. Guilderson, A. Correa-Metrio, F.S. Anselmetti, R. Brown, D. Ariztegui, L. Macario-Gonzalez,

- E. Cruz-Silva, J.C. Beltran-Martinez, M. Bush, M. Stockhecke, J. Curtis, and A. Schwalb. 2024. Precipitation variability and environmental change across late Quaternary glacial-interglacial cycles in lowland Central America: Insights from Lake Peten Itzá' (Guatemala) sediments. *Quaternary Science Reviews*, 344. <https://doi.org/10.1016/j.quascirev.2024.108985>
- (149) Sharpe, A.E., J.M. Palomo, T. Inomata, D. Triadan, F. Pinzon, J. Curtis, K. Emery, G. Kamenov, J. Krigbaum, J. MacLellan, M.P. Weihmüller. 2024. An isotopic examination of Maya Preclassic and Classic animal and human diets at Ceibal, Guatemala. *Journal of Archaeological Science: Reports*, 55. <https://doi.org/10.1016/j.jasrep.2024.104522>
- (148) Gibson, D., J. Obrist-Farner, B. Birkett, J.H. Curtis, M. Berke, and P. Douglas. 2023. The influence of tropical Atlantic sea-surface temperatures and the North Atlantic Subtropical High during the Maya Droughts. *The Holocene*. [doi.org/10.1177/09596836231211856](https://doi.org/10.1177/09596836231211856)
- (147) Obrist-Farner, J., A. Eckert, P.M.J. Douglas, L. Perez, A. Correa-Metrio, B.L. Konecky, T. Bauersachs, S. Zimmerman, S. Scheidt, M. Brenner, S. Kutterolf, J. Maurer, O. Flores, C.M. Burberry, A. Noren, A. Myrbo, M. Lachniet, N. Wattrus, D. Gibson, and the LIBRE scientific team. 2023. Planning for the Lake Izabal Basin Research Endeavor (LIBRE) continental scientific drilling project in eastern Guatemala. *Scientific Drilling* 32:85-100. <https://doi.org/10.5194/sd-32-85-2023>
- (146) Yolimar Suárez-Mozo, N., M. Brenner, W.F. Kenney, M. Díaz-Asencio, J.H. Curtis, M.A. Aquino-Lopez, E. Guerra-Castro, and N. Simões. 2023. Benthic mollusc communities across space and through time in a hypersaline coastal lagoon, México. *Estuarine, Coastal and Shelf Science*. [doi.org/10.1016/j.ecss.2023.108413](https://doi.org/10.1016/j.ecss.2023.108413)
- (145) Martínez-Abarca R., M. Bücker, J. Hoppenbrock, A. Flores Orozco, B. Moguel, C. Pita de la Paz, J. Buckel, T. Lauke T, K. Fröhlich, P. Echeverría-Galindo, M. Bonilla, K. Rubio-Sandoval, S. Landois, M. García, M. Caballero, S. Rodríguez, W. Morales, O. Escolero, A. Correa-Metrio, J.H. Curtis, M. Brenner, A. Hördt, A. Schwalb, and L. Pérez. 2023. Evidence of recurrent shoreline regression-transgression events found in deltaic sediments of Lake Tzibaná, Chiapas, Mexico. *Climate of the Past*. [doi.org/10.5194/cp-19-1409-2023](https://doi.org/10.5194/cp-19-1409-2023)
- (144) Correa-Metrio, A., C. Cordero-Oviedo, E. Gámez-Núñez, G. Olivares-Casillas, J. Escobar, J.H. Curtis, L. Pérez, M. Blaauw, J.P. Bernal. 2023. The evolution of the maya coastal landscape in the Mexican Caribbean during the last 6200 years. *Quaternary Science Reviews* 10-19-22. [doi.org/10.1016/j.quascirev.2023.108214](https://doi.org/10.1016/j.quascirev.2023.108214)
- (143) Emery Broek, M., Gaiser, E., Swain, H., Brenner, M. Curtis, J.H. and Kenney W.G. 2023. Cyclical browning in a subtropical lake inferred from diatom records. *Front. Ecol. Evol.* 11:1020024. [doi: 10.3389/fevo.2023.1020024](https://doi.org/10.3389/fevo.2023.1020024)

- (142) Seitz, C., W.F. Kenney, B. Patterson-Boyarski, J.H. Curtis, M. Velez, K. Glodzik, J. Escobar, and M. Brenner. 2023. Sea level changes and paleoenvironmental responses in a coastal Florida salt marsh over the last three centuries. *Journal of Paleolimnology*. doi.org/10.1007/s10933-022-00275-4
- (141) García-Arriola OA, PD Roy, IG Vargas-Martínez, MP Giron-García, JH Curtis, I Israde-Alcantara and JD Quiroz-Jimenez (2022) Environmental and Hydrological Changes of Lake Coatetelco in Central Mesoamerica (Southwest Mexico) Over the Holocene and Comparison With Climatic Forcing. *Front. Ecol. Evol.* 10:809949. doi: 10.3389/fevo.2022.809949
- (140) Birkett B.A., J. Obrist-Farner, P.M. Rice, W.G. Parker, P.M.J. Douglas, M.A. Berke, A.K. Taylor, J.H. Curtis, and B. Keenan. Preclassic environmental degradation of Lake Petén Itzá, Guatemala, by the early Maya of Nixtun-Ch'ich'. *Nature Communications Earth & Environment*. doi.org/10.1038/s43247-023-00726-4
- (139) Kennett, D.J., Marilyn Masson, C. Peraza Lope, S. Serafin, R.J. George, T.C. Spencer, J.A. Hoggarth, B.J. Culleton, T.K. Harper, K.M. Prufer, S. Milbrath, B.W. Russell, E.U. González, W.C. McCool, V.V. Aquino, E.H. Paris, J.H. Curtis, N. Marwan, M. Zhang, Y. Asmerom, V.J. Polyak, S.A. Carolin, D.H. James, A.J. Mason, G.M. Henderson, M. Brenner, J.U.L. Baldini, S.F.M. Breitenbach and D.A. Hodell. 2022. Drought-Induced Civil Conflict Among the Ancient Maya. *Nature Communications* 13, 3911. doi.org/10.1038/s41467-022-31522-x.
- (138) Martínez-Abarca, M., M. Abstein, P. Hoelzmann, D. Hodell, M. Brenner, S. Kutterolf, S. Cohuo, L. Macario-González, M. Stockhecke, J. Curtis, F. Anselmetti, D. Ariztegui, T. Guilderson, A. Correa-Metrio, F. Schenk, T. Bauersachs, L. Pérez, and A. Schwalb. 2023. Millennial hydrological variability in the continental northern Neotropics during Marine Isotope Stages (MISs) 3–2 (59–15 cal ka BP) inferred from sediments of Lake Petén Itzá, Guatemala. *Climate of the Past* 19: 1409-1434. <https://doi.org/10.5194/cp-19-1409-2023>
- (137) Lohse, J.C., M. Morgan, J.G. Jones, M. Brenner, J. Curtis, W.D. Hamilton, and K. Cardona. Early Maize in the Maya Area. 2022. *Latin American Antiquity*. 1-16. doi:10.1017/laq.2022.55.
- (136) García-Arriola, O.A., P.D. Roy, I.G. Vargas-Martínez, Ma.P. Giron-García, J.H. Curtis, I. Israde-Alcantara and J.D. Quiroz-Jimenez. 2022. Environmental and hydrological changes of Lake Coatetelco in central Mesoamerica (southwest Mexico) over the Holocene and associated climatic forcing. *Frontiers in Ecology and Evolution*, 10. doi: 10.3389/fevo.2022.809949
- (135) Correa-Metrio, A., J. Escobar, B. Bird, D. Caballero-Rodríguez, B. A. Steinman, P.A. Rodríguez-Zorro, and J. Curtis. 2022. A millennium of climatic and floristic dynamics in the Eastern Cordillera of the Colombian Andes. *Journal of Biogeography*, DOI: 10.1111/jbi.14347

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- (133) Colin A. Cooke, Jason H. Curtis, William F. Kenney, Paul Drevnick, and Peter E. Siegel. 2022. Caribbean Lead and Mercury Pollution Archived in a Crater Lake. *Environmental Science & Technology* 2022 56 (3), 1736-1742 DOI: 10.1021/acs.est.1c06791
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- (131) Domic, A.I., S.W. Hixon, M.I. Velez, S.J. Ivory, K.G. Douglass, M. Brenner, J.H. Curtis, B.J. Culleton, and D.J. Kennett. 2021. Influence of Late Holocene Climate Change and Human Land Use on Terrestrial and Aquatic Ecosystems in Southwest Madagascar. *Front. Ecol. Evol.* 9:688512. doi: 10.3389/fevo.2021.688512
- (130) Obrist-Farner, J., M. Brenner, J.R. Stone, M. Wojewódka-Przyby, T. Bauersachs, A. Eckert, M. Locmelis, J.H. Curtis, S.R.H. Zimmerman, A. Correa-Metrio, L Schwark, E. Duarte, A. Schwalb, E. Niewerth, P. Gabriela Echeverría-Galindo, and L. Pérez. 2021. New estimates of the magnitude of the sea-level jump during the 8.2 ka event. *Geology*. doi.org/10.1130/G49296.1
- (129) Jaramillo, D., M.I. Vélez, J. Escobar, A. Pardo-Trujillo, F. Vallejo, J.C. Villegas, A.L. Acevedo, J. Curtis, H. Rincón, R. Trejos-Tamayo. 2021. Mid to Late Holocene Dry Events in the Wettest Place of South America associated with changes in regional atmospheric circulation. *Quaternary Science Reviews*. doi.org/10.1016/j.quascirev.2021.106937
- (128) Sharpe, A.E., N. Smith-Guzman, J. Curtis, I. Isaza-Aizpurúa, G.D. Kamenov, T.A. Wake, R.G. Cooke. 2021. A preliminary multi-isotope assessment of human mobility and diet in pre-Columbian Panama. *Journal of Archaeological Science*. 36. 102876. 102876. doi.org/10.1016/j.jasrep.2021.102876
- (127) Paez-Reyes, M., H. Carvajal-Ortiz, S.K. Sahoo, O. Varol, B.V. Miller, G.W. Hughes, T. Gaona-Narvaez, G.D. Patarroyo, J.H. Curtis, I. Lerma, P. Copeland. 2021. Assessing the contribution of the La Luna Sea to the global sink of organic carbon during the Cenomanian-Turonian Oceanic Anoxic Event 2 (OAE2). *Global and Planetary Change*. 199. 103424. 103424. doi.org/10.1016/j.gloplacha.2021.103424

- (126) Hixon, S.W., J.H. Curtis, M. Brenner, K.G. Douglass, A.I. Domic, Brendan J. Culleton, S.J. Ivory and D.J. Kennett. 2021. Drought Coincided with, but Does Not Explain, Late Holocene Megafauna Extinctions in SW Madagascar. *Climate*. doi.org/10.3390/cli9090138
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- (124) Perez, L., L. Pérez, A. Correa Metrio, S. Cohuo, L.M. González, P. Echeverría, M. Brenner, J. Curtis, S. Kutterolf, M. Stockhecke, F. Schenk, T. Bauersachs, A. Schwalb. 2021. Ecological turnover in neotropical freshwater and terrestrial communities during episodes of abrupt climate change. *Quaternary Research*. doi:10.1017/qua.2020.124
- (123) Whitmore, T.J., M.A. Riedinger-Whitmore, Z.E. Reed, J.H. Curtis, H. Yang, D.E. Evans, N.R. Cropper, K.S. Alvarado, F.M. Lauterman, A. Scott, C.R. Leonard & D.L. Franklin. 2020. Paleolimnological Assessment of Six Lakes on the Kissimmee Chain, with Implications for Restoration of the Kissimmee–Okeechobee–Everglades system, Florida, USA. *Lake and Reservoir Management*. DOI: 10.1080/10402381.2020.1785064.
- (122) Kamenov, G.D., J. Escobar, T.E. Arnold, A. Pardo-Trujillo, G. Gangoiti, N. Hoyos, J.H. Curtis, B.W. Bird, M.I. Felipe Vallejo, and R. Trejos-Tamayo. 2020. Appearance of an enigmatic Pb source in South America around 2000 BP: Anthropogenic vs natural origin. *Geochimica et Cosmochimica Acta* 276.122–135. doi.org/10.1016/j.gca.2020.02.031.
- (121) Cohuo, S., L. Macario-González, S. Wagner, K. Naumann, P. Echeverría-Galindo, L. Pérez, J. Curtis, M. Brenner and A. Schwalb. 2020. Influence of late Quaternary climate on the biogeography of Neotropical aquatic species as reflected by non-marine ostracodes. *Biogeosciences*, 17, 145–161. doi.org/10.5194/bg-17-145-2020.
- (120) Serna, Y., A. Correa-Metrio, W.F. Kenney, J.H. Curtis, M.I. Velez, M. Brenner, N. Hoyos, J.C. Restrepo, C. Cordero-Oviedo, D. Buck, N. Suarez and J. Escobar. 2020. Post-colonial pollution of the Bay of Cartagena, Colombia. *Journal of Paleolimnology* 63, 21–35. doi.org/10.1007/s10933-019-00101-4.
- (119) Roy, P.D., G. Vera-Vera, J.L. Sánchez-Zavala, T.M. Shanahan, J.D. Quiroz-Jiménez, J.H. Curtis, M.P. Girón-García, V.H. Lemus, G. Muthu Sankar. 2020. Depositional histories of vegetation and rainfall intensity in Sierra Madre Oriental Mountains (northeast Mexico) since the late Last Glacial, *Global and Planetary Change* 187, 103136, doi.org/10.1016/j.gloplacha.2020.103136.
- (118) Scholz, S.R., S.V. Petersen, J. Escobar, C. Jaramillo, A.J.W. Hendy, W.D. Allmon, J.H. Curtis, B.M. Anderson, N. Hoyos, J.C. Restrepo, N. Perez. 2020. Isotope sclerochronology indicates

enhanced seasonal precipitation in northern South America (Colombia) during the Mid-Miocene Climatic Optimum. *Geology*. doi.org/10.1130/G47235.1

- (117) Hernandez, E., J. Obrist-Farner, M. Brenner, W.F. Kenney, J.H. Curtis, E. Duarte. 2020. Natural and anthropogenic sources of lead, zinc, and nickel in sediments of Lake Izabal, Guatemala. *Journal of Environmental Sciences*. 96. 117-126. doi.org/10.1016/j.jes.2020.04.020
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- (111) Arnold, T.E., W.F. Kenney, J.H. Curtis, T. Bianchi, and M. Brenner. 2019. Recent trophic state changes in selected Florida lakes inferred from bulk sediment geochemical variables and biomarkers. *Journal of Paleolimnology* 62: 409-423. doi.org/10.1007/s10933-019-00096-y.
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- (102) Arellano-Torres, E., A. Correa-Metrio, D. López-Dávila, J. Escobar, J.H. Curtis, M.C. Cordero-Oviedo. 2019. Mid to late Holocene hydrological and sea-level change reconstructions from La Mancha coastal lagoon, Veracruz, Mexico. *Palaeogeography, Palaeoclimatology, Palaeoecology*. doi.org/10.1016/j.palaeo.2019.01.033
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- Zurisadai Rubio-Sandoval, K., A. Correa-Metrio, J.F. Franco-Gaviria, A. Schwalb, P. Hoelzmann, M. Brenner, M. Blaauw, W. Kenney, J. Curtis and L. Pérez. 2020. Freshwater mollusks as paleoenvironmental indicators in Lakes Metzabok and Nahá, Chiapas, Mexico. XI Congreso Latinoamericano de Malacología.
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- Pérez, L., M. Stockhecke, S. Cohuo, L. Macario-González, M. Abstein, P. Hoelzmann, F. Sylvestre, C. Paillés, A. Correa-Metrio, J.H. Curtis, M. Brenner, S. Kutterolf, D. Ariztegui, F. Anselmetti, D. Hodell, and A. Schwalb. 2019. A ~400 ka-multi-centennial record from Lake Petén Itzá reveals mechanisms of moisture transport across Central America. Abstract PP31D-1674 presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
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#### Grants and Contracts

Obrist-Farner, J., A. Eckert, P. Douglas, M. Brenner, J. Curtis, C. Burberry, L. Perez, C. Jaramillo, I. Domaizon, A. Correa-Metrio, N. Wattrus, P. Mann, S. Gao, F. Oboh-Ikuenobe, T. Bhattacharya, S. Zimmerman, E. Lodolo. LIBRE – Lake Izabal Basin Research Endeavor. International Continental Drilling Program, \$52,000. Funded workshop.

Proposal to the International Continental Drilling Program. This was a “Preliminary” proposal to the ICDP to announce our interest in work on Lake Izabal, Guatemala. Preliminary proposals to the ICDP award no money but if approved allow submission of a “Workshop” proposal (and then eventually) a drilling proposal. Jonathan Obrist-Farner, Andreas Eckert, Francisca Oboh-Ikuenobe, Peter Douglas, Mark Brenner, Jason Curtis, Emanuele Lodolo, Liseth Perez, Tripti Bhattacharya. LIBRE – Lake Izabal Basin Research Endeavour.

Martin, J.B., and Curtis J.H. Collaborative Research: Does calcification by paleoceanographically relevant benthic foraminifera provide a record of localized methane seepage? NSF. \$85,908.00. 7-29-16 to 7-29-21.

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Brenner, M., T.J. Whitmore, J.H. Curtis, and A. Zimmerman. Sediment Accumulation Rate and Past Water Quality in Lochloosa Lake, St. Johns River Water Management District, \$200,000. 2006-2008.

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Brenner, M., and J.H. Curtis. Sedimentation in Davis Lake (Tsala Apopka Chain of Lakes), Citrus County Aquatic Services, \$40,500. 2003-2004.

Brenner, M., D.A. Hodell, and J.H. Curtis. Investigation of long-term stability and phosphorus accretion by an aquatic system with a long history of submerged aquatic vegetation dominance. South Florida Water Management District, West Palm Beach, FL. \$65,875. 2001-2002.

Brenner, M., J.H. Curtis, and D.A. Hodell. Lake Hancock: A multi-proxy reconstruction of past trophic state conditions. Southwest Florida Water Management District, Brooksville, FL. \$56,000. 2001-2002.

Brenner, M., J.H. Curtis, D.A. Hodell, and J. Jaeger. Ecology and paleoecology of groundwater-augmented Florida lakes. Southwest Florida Water Management District, Brooksville, FL. \$161,875. 2001-2004.

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Brenner, M., and J.H. Curtis. Bulk sedimentation and nutrient accumulation rates in Lakes Poinsett and Winder of the Upper St. Johns River Basin. St. Johns River Water Management District, Palatka, FL. \$49,000. 2001-2003.

Brenner, M., and J.H. Curtis. (not funded). Characterization of Sediments from Fox Lake, Brevard County, Florida. Florida Fish and Wildlife Conservation Commission, Eustis, FL. \$19,832.

#### Field Experience

2024 Colombia, Lake coring

2024 Florida, Lake coring

2023 Florida and Alabama, Lake coring

2023 Mexico, Lake coring

2022 Colombia, Lake coring  
2021 Florida, Lake coring  
2020 Florida, Lake coring  
2019 Guatemala, Lake coring  
2019 Mexico, Lake coring  
2018 Colombia, Lake coring  
2018 Guatemala, Lake sediment sampling  
2018 Madagascar, Lake coring  
2018 Mexico, Lake coring  
2017 Mexico, Lake coring  
2017 Colombia, Lake coring  
2016 Mexico, Lake coring  
2016 Florida, Lake coring  
2016 Colombia, Lake coring  
2015 Florida, Lake coring  
2014 Florida, Lake coring  
2013 Mexico, Lake coring  
2013 Florida, Lake coring  
2012 Guatemala, Lake coring  
2012 Florida, Lake coring  
2011 Florida, Lake coring  
2010 Florida, Lake coring  
2009 Florida, Lake coring and limnology  
2008 California, Sierra Nevada, Lake coring  
2008 Guatemala, Lake coring and surface sediment collection  
2008 Grenada, Lake coring  
2008 Florida, Lake coring and limnology  
2007 Caribbean (Trinidad, Barbados, Marie Galante, St. Croix), lake coring and reconnaissance  
2007 Florida, Lake coring and limnology  
2006 Florida, Lake coring and limnology  
2006 Mexico, collected cave speleological material  
2006 Guatemala, GLAD800 drilling Lake Peten Itza  
2005 Greece, Lake coring  
2005 Brazil, Lake coring  
2005 Mexico (Yucatan), collected cave speleological material  
2005 Florida, Lake coring and limnology  
2004 Lake Bosumtwi, Ghana, Familiarization of the GLAD800 lake drilling rig  
2004 Mexico (Yucatan), Lake coring, water chemistry and collection, bathometric survey of Lake Chichancanab, collected cave speleological material  
2003 Cambodia, Coring Lake Tonle Sap and the main artificial reservoir at Angkor Wat  
2003 Haiti, Reconnaissance for future lake coring of Etang Sumatre  
2003 Dominican Republic, Lake, river, and spring sampling, sediment sampling  
2002 Florida, Lake Coring (Davis Lake)  
2002 Greece (Crete), Lake coring

2002 Guatemala (Peten), Lake coring  
2002 Everglades, Florida, Lake coring  
2001 Greece (Crete), Lake coring  
2001 Mexico (Yucatan), Lake coring  
2001 Dominican Republic, Lake coring  
2000 Peru, Lake coring  
2000 Mexico (Yucatan), Lake coring  
2000 Guatemala (Highlands), Lake coring  
1999 Guatemala (Peten), Lake coring and seismic survey  
1998 Brazil (Para), Lake coring, Maicuru  
1998 Brazil (Para), Reconnaissance for future lake coring  
1998 Panama, Lake coring  
1998 Florida, Lake coring  
1997 Brazil (Parana, Santa Catarina, Minas Gerais, Sao Paulo, Rondonia, Rio Grande do Norte),  
Lake coring, lake survey  
1997 Guatemala (Peten), Lake coring  
1997 Panama, Lake coring  
1996 Southern Ocean, ODP site survey cruise, TN057, Piston coring  
1995 Lower Great Lakes, Box coring  
1995 Panama (Darien), Lake coring  
1994 China (Yunnan), Lake coring and lake survey  
1994 Venezuela, Coring Lake Valencia  
1994 Panama (Darien), Lake coring  
1993 Bolivia, Coring Lake Titicaca  
1993 Mexico (Yucatan), Lake coring  
1993 Guatemala (Peten), Lake coring  
1993 Lower Great Lakes, Setting sediment traps and box coring  
1992 Bolivia, Coring Lake Titicaca  
1992 Mexico (Yucatan), Lake coring  
1991 Gulf of Mexico, Dredging  
1990 Mexico (Yucatan), Lake survey