

Curriculum Vitae

Braddock K. Linsley

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Education Ph.D. (1990); University of New Mexico, Albuquerque, New Mexico (Geology)
 Advisor: Dr. Roger Y. Anderson
 M.S. (1984); University of South Carolina, Columbia, South Carolina
 (Geology) Advisor: Dr. Robert C. Thunell
 B.S. (1982); St. Lawrence University, Canton, New York (Geology, w/honors)

Research Interests

Paleoclimatology/Paleoceanography, Stable isotope and trace element geochemistry of biogenic carbonates (corals, foraminifera, pteropods), Tropical climatology, Marine geology.

Employment/Professional Experience

2011-present Lamont Research Professor, Lamont-Doherty Earth Observatory of Columbia University, Director of the Stable Isotope Laboratory
 2008-2011 Professor, University at Albany-SUNY, Albany NY
 2001-2008 Associate Professor, University at Albany-SUNY, Albany NY
 1995-2001; Assistant Professor, University at Albany-SUNY, Albany NY
 1991-1995; Research Associate, Rice University, Houston, TX
 1991-1992; Hydrogeologist (part-time) at ERM-Southwest Inc, Houston, TX
 1986; Hydrogeologist, Vermont Department of Health, Burlington, VT.

Professional Affiliations

- American Geophysical Union

Oceanographic Field Research Experience and Professional Activities

Reviewer of proposals for the US National Science Foundation (NSF) including NSF Graduate Research Fellowship Program (2016 & 2018), National Oceanic and Atmospheric Administration (NOAA), Department of Energy (DOE), Petroleum Research Fund (ACS-PRF) and the National Environmental Resources Council (NERC) in the UK.

Reviewer of manuscripts for the journals: *Science*, *Nature*, *Nature Geoscience*, *Nature Climate Change*, *Nature Communications*, *Paleoceanography and Paleoclimatology*, *Geochemistry*, *Geophysics*, *Geosystems (G³)*, *Geology*, *Climate Dynamics*, *Coral Reefs*, *Quaternary Science Reviews*, *Geochemica Cosmochemica Acta*, *GeoBiology*, *Global Biogeochemical Cycles*, *Proceedings of the National Academy of Science*, *Geophysical Research Letters*, *Journal of Geophysical Research*, *Climate Dynamics*, *Journal of Climate*, *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*, *Limnology and Oceanography*.

March 2018; Chief Scientist, Coral sampling expedition to the Gulf of Chiriquí, Panamá. Collected 1.0 to 1.5m long *Porites lobata* coral cores at sites arrayed along the coast to reconstruct river discharge and coral bleaching history over the last ~ 150 years. The LDEO Center for Climate and Life (CCL) and World Surf League (WSL) supported the project.

- 10/5/16 to 12/9/16: Sedimentologist on Integrated Ocean Discovery Program (IODP) Leg 363 that collected sediment cores at 9 sites, 2 on the northwest Australian margin and 7 sites arrayed south to north from the New Guinea margin to the center of the Western Pacific Warm Pool (WPWP) (*October 5, 2016 from Singapore to December 8, 2016 in Guam*).
- 2015-2017: In collaboration with the World Surf League (WSL) and goFlow, I helped lead the concept and content work at LDEO developing a coral bleaching monitoring tool titled “Bleach Patrol” that was added to goFlow’s outdoor sports smart phone & tablet App to monitor the 2016 coral bleaching event. The coral bleaching tool was designed to allow users to input observations, GPS coordinate and pictures about coral bleaching, reef health and position on the reef. We are evaluating options for the next phase of this project.
- 2016 & 2018; Panel review member for US National Science Foundation Graduate Student Research Fellowship (GRFP) program (January 2016 and January 2018).
- 11/16/15 to 11/20/15: Invited speaker at the CLIVAR meeting on Decadal climate variability and predictability held at the International Centre for Theoretical Physics (ICTP), Trieste, Italy. Talk title: “Coral Records of IPO and ENSO Variability in the South Pacific: New Results from the Expanding Coral Network”.
- 2011-2015; Raised funding for and designed and set up a new stable isotope laboratory at LDEO. The lab consists of 4 stable isotope mass spectrometers; three dual-inlet for carbonate and water samples and one continuous flow mass spectrometer with GC, TC-EA and EA for analysis of biomarkers and organic samples including tree ring cellulose. NSF award: ATM-0959148
- 7/2012: Participant IODP Leg 325 post cruise meeting at Heron Island, Australia. Presented and discussed preliminary results from analysis of GBR fossil corals.
- 11/2011: Co-Chief Scientist for a 2 week field expedition with Dr. Robert Dunbar (Stanford) to collect coral cores from a 7 m high *Porites lutea* coral colony in Ta’u, American Samoa (November 2011). Successfully recovered 3 cores, the longest of which was 6.05 m. The $\delta^{18}\text{O}$ series indicates that the core extends back to 1520 C.E.
- 2010: Panel Member; National Science Foundation Marine Geology and Geophysics Program.
- 2009/2010; Paleoclimatologist: IODP Great Barrier Reef Expedition; Leg 325; Drilling occurred in February-March 2010 and on-shore “science party” sampling in Bremen Germany (June 30 to July 17, 2010).
- 4/2007; Invited Participant at AGU headquarters to discuss revisions to NSF’s Earth Systems History Program (ESH) after release of the 2007 IPCC report.
- 10 to 11/2004; Chief Scientist on S.R.V. Evohe cruise in Southern Tonga-Fiji region in South Pacific to collect coral cores for climatic research.
- 2003; Panel Member, National Science Foundation Marine Geology and Geophysics Program
- 7/2003; Co-Chief Scientist on multi- and gravity-coring cruise of the R.V. Baruna Jaya VIII in Indonesia
- 12/2001: Co-Chief Scientist Coral drilling in Fiji as part of NOAA funded project with G. Wellington of the University of Houston.
- 11/2001: Co-Organizer, NSF and PAGES sponsored meeting on Scientific Results of the Annual Records of Tropical Systems (ARTS) initiative, Noumea, New Caledonia, November 2001.
- 5/2001: Invited Participant, ODP Leg 184 Post-Cruise Meeting and Monsoon Symposium, May 7-11, 2001, Beijing, China.
- 6/2000: Coral drilling in Rarotonga as part of NOAA funded project with G. Wellington of the University of Houston.
- 10/2000: Invited Participant, Joint Oceanographic Institutions (JOIDES) sponsored conference on Geochemistry for Post 2003 Ocean Drilling, Tyngsboro, Ma., October 12-13, 2000.

- 9/2000: Invited Participant, Joint Oceanographic Institutions (JOIDES) sponsored conference on Submerged Coral Drilling, St. Petersburg Florida, September 24-27, 2000.
- 5/1999: Invited Participant, Joint Oceanographic Institutions (JOIDES) sponsored conference for Multi-Platform Exploration (COMPLEX), Vancouver, B.C. May 25-29, 1999.
- 1/1999: Invited Participant, Conference on Marine Environment, the Past, Present, and Future, National Sun Yat-Sen University, Kaohsiung, Taiwan, January 26-28, 1999.
- 1998: Panel Member (substitute for one panel in 1998); National Science Foundation Marine Geology and Geophysics Program.
- 6/1998: Participant, Chapman Conference on Millennial Scale climatic variability, SnowBird Utah. June 14-18, 1998.
- 10/1997: Co-Chief Scientist, Coral drilling expedition to Fanning Atoll, central tropical Pacific; Joint NOAA funded project with R.B. Dunbar (Stanford University)
- 8/1997: Deep sea coral collecting off Oahu, Hawaii with Pisces V submersible (NOAA-HURL project with R.B. Dunbar (Stanford University) and R. Grigg (Univ. of Hawaii)
- 3/1997: Co-Chief scientist, coral drilling expedition to Rarotonga in the Cook Islands and Fiji; Joint NSF-SGER project with Dr. G. M. Wellington, Department of Biology, University of Houston.
- 6/1997: Invited Participant, Joint Institute for the Study of the Atmosphere and Ocean, University of Washington Conference titled The cross-validation of proxy climate data and the instrumental record, Presented talk titled "Multiple Isotopic Records from Corals Improve Correlations to Environmental Signals", Seattle WA, June 23-25, 1997.
- 9/1996: Invited Participant, National Science Foundation (NSF) sponsored meeting on Annual Records of Tropical Systems (ARTS) in Kauai, Hawaii, September 27-30, 1996.
- 12/1994; Co-convener, Fall American Geophysical Union (AGU) special session on millennial-scale climatic variability, December, 1994.
- 4/1994: Chief Scientist, Clipperton Expedition-1994. Directed Rice University research team in the collection of coral cores for climatic reconstruction from Clipperton Atoll in the eastern Pacific (funded by NSF SGER).
- 3/1992: CRUISE F2-92 of the R.V. FARNELLA, U.S. Geological Survey, Sedimentologist: Sediment coring and 3.5 khz profiling cruise along the central California margin.
- 6/1990; CRUISE 125-8 of the R.V. ATLANTIS II, Woods Hole Oceanographic Institution, Scientific staff: Long piston and Box coring was performed in laminated, anoxic marine sediments in the Gulf of California. Sediment traps were also deployed.
- 8/1988 - 1/1989; ODP LEG 124 of the R.V. JOIDES RESOLUTION, Sedimentologist, Drilled in Sulu and Celebes Seas, western equatorial Pacific Ocean.

Refereed Publications (*= BKL students or former students):

In Preparation:

- Brenner*, L. D., B. K. Linsley, D. Potts, J. Webster and IODP Leg 325 science participants; Fossil Coral Record of Younger Dryas Chronozone warmth in the context relative Sea Surface Temperature warming since 25 kyr BP on the Great Barrier Reef, *in preparation*
- Tangri, N., R. B. Dunbar, B. K. Linsley, D. A. Mucciarone, A High-Fidelity, Five-Century Long Reconstruction of Pacific Decadal Variability from a South Pacific Coral, *in preparation*.
- Weiss, T. L., B. K. Linsley, A. L. Gordon, Millennial-scale deglacial reorganizations of the western Pacific North Equatorial Current inferred from Sulu thermocline reconstruction, *in review at Nature Communications*.

Published**2019**

- Linsley, B. K., R. B. Dunbar, E. P. Dassié*, N. Tangri, H. C. Wu*, L. D. Brenner*, G. M. Wellington, Coral Carbon Isotope Sensitivity to Growth Rate and Water Depth with Palaeo-Sea Level Implications, Published on-line May 3, 2019, *Nature Communications*, (2019) 10:2056| <https://doi.org/10.1038/s41467-019-10054-x>, shortened URL: <https://rdcu.be/bz11c>, Columbia University Academic Commons link: <https://doi.org/10.7916/d8-1gzc-tj03>
- Erler, D. V., B.O. Shepherd, B.K. Linsley, L.D. Nothdurft, Q. Hua, & J.M. Lough (2019). Has nitrogen supply to coral reefs in the South Pacific Ocean changed over the past 50 thousand years? *Paleoceanography and Paleoclimatology*, 34. <https://doi.org/10.1029/2019PA003587>

2018

- Tangri, N., R. B. Dunbar, B. K. Linsley, D. A. Mucciarone, ENSO's Shrinking 20th Century Footprint Revealed in a Half-millennium Coral Core from the South Pacific Convergence Zone, *Paleoceanography and Paleoclimatology*, First published online: 11 October 2018 <https://doi.org/10.1029/2017PA0033>
- Erler, D.V, B. O. Shepherd, B. K. Linsley, L. Nothdurft, Q. Hua, J. M. Lough, N. E. Cantin (2018). Coral skeletons record increasing agriculture-related groundwater nitrogen inputs to a South Pacific reef over the past century. *Geophys. Res. Lett.*, 45. <https://doi.org/10.1029/2018GL078656>
- Iwatani, H., M. Yasuhara, Y. Rosenthal, B. K. Linsley, Intermediate-water dynamics and ocean ventilation effects on the Indonesian throughflow during the last 15,000 years: Ostracod evidence, *Geology*, June 2018; v. 46; no. 6; p. 567–570 | GSA Data Repository item 2018188 | <https://doi.org/10.1130/G40177.1>
- Dassié*, E. P., A. Hasson, M. Khodri, N. Lebas, B. K. Linsley, Spatio-temporal variability of the South Pacific Convergence Zone fresh pool eastern front from coral derived salinity data, *J. of Climate*, <https://doi.org/10.1175/JCLI-D-17-0071.1>, Published Online: 1 December 2017. In print March 2018.

2017

- Linsley, B. K., R. B. Dunbar, D. Lee, N. Tangri, E. P. Dassié*, Abrupt Northward Shift of SPCZ position in the late-1920s Indicates Coordinated Atlantic and Pacific ITCZ Change, *Past Global Changes Magazine*, Volume 25, No. 1, *CLIVAR Exchanges* No. 72, June 2017, doi: 10.22498/pages.25.1.52. (2017B) <http://www.clivar.org/news/clivar-and-pages-jointly-released-latest-exchanges> <http://www.pastglobalchanges.org/products/pages-magazine/7626-25-1-decadal-climate-variability>
- Brenner*, L. D., B. K. Linsley, and D. C. Potts, A modern Sr/Ca- $\delta^{18}\text{O}$ -Sea Surface Temperature calibration for *Isopora* corals on the Great Barrier Reef, *Paleoceanography*, 32, 2017. doi:10.1002/2016PA002973.
- Brenner*, L.D., B. K. Linsley, R. B. Dunbar, Examining the utility of coral Ba/Ca as a proxy for river discharge and hydroclimate variability at Coiba Island, Gulf of Chirquí, *Marine Pollution Bulletin* (2017), <http://dx.doi.org/10.1016/j.marpolbul.2017.02.013>
- Rosenthal, Y, J. Kalansky, A. Morley, B. K. Linsley, A Paleo-perspective on Ocean Heat Exchange: Lessons from the Holocene and Common Era, *Quaternary Science Reviews*, 155, 1-12, 2017. <http://dx.doi.org/10.1016/j.quascirev.2016.10.017>

2016

- Linsley, B. K., H. C. Wu*, T. Rixen, C. D. Charles, A. L. Gordon, and M. D. Moore, SPCZ Zonal Events and Downstream Influence on Surface Ocean Conditions in the Indonesian Throughflow Region, *Geophys. Res. Lett.*, 43, doi:10.1002/2016GL070985, 2017A (published on-line in December 2016).
- Brenner*, L.D., B.K. Linsley, R. B. Dunbar, G. M. Wellington, Coral $\delta^{18}\text{O}$ Evidence for Pacific Ocean mediated decadal variability in Panamanian ITCZ rainfall back to the early 1700s, *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 449, 385–396, 2016.

2015

- Rustic, G. T., A. Koutavas, T.M. Marchitto, B. K. Linsley, Dynamical Excitation of the Tropical Pacific Ocean and ENSO Variability by Little Ice Age Cooling, *Science*, published December 3, 2015, 10.1126/science.aac9937. vol 350, issue 6267, 1537-1541, 2015.
- Dassié*, E. P. and B. K. Linsley, Refining the sampling approach for the massive coral *Diploastrea heliopora* for $\delta^{18}\text{O}$ -based paleoclimate applications, *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 440, 274–282, 2015. The paper can be found at:

<http://authors.elsevier.com/a/1Rndg73Nzhzfw>

Linsley, B. K., H. C. Wu*, E. P. Dassié*, and D. P. Schrag, Decadal changes in South Pacific sea surface temperatures and the relationship to the Pacific decadal oscillation and upper ocean heat content, *Geophys. Res. Lett.*, 42, doi:10.1002/2015GL063045, 2015.

The paper can be found at: <http://dx.doi.org/10.7916/D8XK8DP7>

Two review articles can be found at:

<http://www.scientificamerican.com/article/pacific-current-change-slowed-global-warming/>

<http://mashable.com/2015/04/09/rapid-global-warming/>

2014

Dassié*, E. P., B. K. Linsley, T. Corregge, H. C. Wu*, G. M. Lemley*, S. S. Howe, G. Cabioch, A Fiji multi-coral $\delta^{18}\text{O}$ composite approach to obtaining a more accurate reconstruction of the last two-centuries *Paleoceanography*, Article first published online: 18 DEC 2014, DOI: 10.1002/2013PA002591, 2014.

Wu*, H. C., M. Moreau, B. K. Linsley, D. P. Schrag, and T. Corregge, Investigation of sea surface temperature changes from replicated coral Sr/Ca variations in the eastern equatorial Pacific (Clipperton Atoll) since 1874. *Palaeogeography, Palaeoclimatology, Palaeoecology*, Vol. 412, 208-222, doi: 10.1016/j.palaeo.2014.07.039, 2014.

Felis, T., H.V. McGregor, B. K. Linsley, A.W. Tudhope, M. K. Gagan, A. Suzuki, M. Inoue, A. L. Thomas, T. M. Esat, W. G. Thompson, M. Tiwari, D. C. Potts, M. Mudelsee, Y. Yokoyama, J. M. Webster, Intensification of meridional temperature gradients in the Great Barrier Reef following the Last Glacial Maximum, *Nature Communications*, published June 17, 2014; | 5:4102 | DOI: 10.1038/ncomms5102, 2014.

Neukom, R., J., Gergis, D. Karoly, H. Wanner, M. Curran, J. Elbert, F. González-Rouco, B.K. Linsley, A.D. Moy, I., Mundo, C.C. Raible, E. J. Steig, T. van Ommen, T. Vance, R. Villalba, J. Zinke, D. Frank, Inter-hemispheric temperature variability over the past millennium, *Nature Climate Change*, doi:10.1038/nclimate2174, published March 30, 2014.

Gibbons, F.T., D. W. Oppo, M. Mohtadi, Y. Rosenthal, J. Cheng · Z. Liu, B. K. Linsley, Deglacial $\delta^{18}\text{O}$ and hydrologic variability in the tropical Pacific and Indian Oceans, *Earth and Planetary Science Letters* 02/2014; 387:240–251. DOI:10.1016/j.epsl.2013.11.032, 2014.

2013

Cléroux, C., P. B. deMenocal, J. Arbuszewski, B.K. Linsley, Reconstructing the upper water column thermal structure in the Atlantic Ocean, *Paleoceanography*, VOL. 28, 503–516, doi:10.1002/palo.20050, 2013.

Rosenthal, Y, B.K. Linsley, D. W. Oppo, Pacific Ocean heat content over the past 10,000 years, *Science*, vol. 342, 617-621, November 1, 2013.

Hathorne, E.C., A. Gagon, T. Felis, J. Adkins, R. Asami, W. Boer, N. Caillon, D. Case, K. M. Cobb, E. Douville, P. B. deMenocal, A. Eisenhauer, D. Garbe-Schönberg, W. Geibert, S. Goldstein, K. Hughen, M. Inoue, H. Kawahata, M. Kölling, B. K. Linsley, H. V. McGregor, P. Montagna, I. S. Nurhati, T. M. Quinn, J. Raddatz, H. Rebaubier, L. Robinson, A. Sadekov, R. Sherrell, D. Sinclair, A. W. Tudhope, G. Wei, H. Wong, H. C. Wu, C-F. You (2013), Interlaboratory study for coral Sr/Ca and other element/Ca ratio measurements, *Geochem. Geophys. Geosyst.*, 14, doi:10.1002/ggge.20230. 2013.

Wu*, H, B.K. Linsley, E. P. Dassié*, B. Schiraldi*, P. B. deMenocal, Oceanographic variability in the South Pacific Convergence Zone region over the last 210 years from multi-site coral Sr/Ca records, *Geophys. Geochem. Geosys.* 14, no 5, 1435-1453: 17 MAY 2013 | DOI: 10.1029/2012GC004293, 2013.

Dassié*, E.P., G. M. Lemley*, and B. K. Linsley The Suess effect in Fiji coral $\delta^{13}\text{C}$ and its potential as a tracer of anthropogenic CO₂ uptake, *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol 370, 30-40, 2013.

2012

Tierney, J. E., Oppo, D. W., LeGrande, A. N., Huang, Y., Rosenthal, Y., Linsley, B.K., The influence of Indian Ocean atmospheric circulation on Warm Pool hydroclimate during the Holocene Epoch, *Journal of Geophysical Research-Atmospheres*. VOL. 117, D19108, doi:10.1029/2012JD018060, 2012.

2011

Rosenthal, Y., A. Morley, C. Barras, M. Katz, F. Jorissen, G. de Lang, D. W. Oppo and B. K. Linsley, Temperature calibration of Mg/Ca ratios in the intermediate water benthic foraminifer *Hyalinea balthica*, *Geophys. Geochem. Geosys.* 12, Number 4 Q04003, doi:10.1029/2010GC003333, 2011.

2010

Linsley, B.K., Y. Rosenthal, D. W. Oppo, Holocene Evolution of the Indonesian Throughflow and the Western Pacific Warm Pool, *Nature Geoscience*, 3, 578 - 583 (2010), Published online: 25 July 2010 | doi:10.1038/ngeo920.

Tierney, J.E, D. W. Oppo, Y. Rosenthal, J. M. Russell, B. K. Linsley, Coordinated hydrological regimes in the Indo-Pacific region during the past two millennia, *Paleoceanography-Currents*, Vol. 25, PA1102, doi:10.1029/2009PA001871, 2010.

2009

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Alt, T. R., J. E. Cole, M. N. Evans, H. Barnett, N. J. Abram, A. W. Tudhope, B. K. Linsley, Intensified decadal variability in tropical climate during the late 19th century, *Geophysical Research Letters*, Vol. 36, L08602, doi:10.1029/2008GL036924, 2009.

2008

Langton* *S.J.*, Linsley B.K., Robinson R., Rosenthal Y., Oppo D.W., Eglinton T.I., Howe S.S., Djajadihardja Y.S., and F. Syamsudin, 3500 year record of centennial-scale climate variability from the Western Pacific Warm Pool *Geology*. 36(10): 795–798; doi: 10.1130/G24926A, 2008.

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Yasuhara, M., T. M. Cronin, P. B. deMenocal, H. Okahashi, B. K. Linsley, Abrupt Climate Change and Collapse of Deep-Sea Ecosystems, *Proceeding of the National Academy of Sciences*, 105, no.5, 1556-1560, 2008.

2006

Rosenthal, Y., B. K. Linsley, Mg/Ca and Sr/Ca Paleothermometry from Calcareous Marine Fossils, chapter in the *Encyclopedia of Quaternary Sciences*, Elsevier Ltd., 2006.

Linsley, B. K., A. Kaplan, Y. Gouriou, J. Salinger, P. B. deMenocal, G. M. Wellington, and S. S. Howe, Tracking the extent of the South Pacific Convergence Zone since the early 1600s, *Geochem. Geophys. Geosyst.*, 7, Q05003, doi:10.1029/2005GC001115, 2006.

Yuan*, F., B. K. Linsley, S.S. Howe, S. P. Lund, and J. P. McGeehin, Late Holocene lake-level reconstruction based on a sediment record at decadal resolution from Walker Lake, Nevada, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 240, 497-507, 2006.

Yuan*, F., B. K. Linsley, and S. S. Howe, Evaluating sedimentary geochemical lake-level tracers in Walker Lake, Nevada over the last 200 years, *Journal of Paleolimnology*, C-2, 36: 37-54, 2006.

Rosenthal, Y., C. H. Lear, D. W. Oppo, and B. K. Linsley, Temperature and carbonate ion effects on Mg/Ca and Sr/Ca ratios in benthic foraminifera: Aragonitic species *Hoeglundina elegans*, *Paleoceanography*, 21, PA1007, doi:10.1029/2005PA001158, 2006.

2005

Bagnato*, S., B.K. Linsley, S. S. Howe, G. M. Wellington, S. J. Salinger, Coral oxygen isotope records of interdecadal climate variations in the South Pacific Convergence Zone region, *Geophys. Geochem. Geosys.*, vol 6 (6), Q06001, doi: 10.1029/2004GC000879, 2005.

D'Arrigo, R., R. Wilson, C. Deser, G. Wiles, E. Cook, R. Villalba, S. Tudhope, J. Cole, B. K. Linsley, Tropical climate linkages over the past four centuries, *Journal of Climate*, 18, 5253-5265, 2005.

2004

Bagnato*, S., B.K. Linsley, S. S. Howe, G. M. Wellington, J. Salinger, Evaluating the use of the massive coral *Diploastrea helipora* for paleoclimate reconstruction, *Paleoceanography*, vol. 19, PA1032, doi:10.1029/2003PA000935, 2004.

Linsley, B.K., G.M. Wellington, D.P. Schrag, L. Ren*, M.J. Salinger, A.W. Tudhope, Coral evidence for changes in the amplitude and spatial pattern of South Pacific interdecadal climate variability over the last 300 years, *Climate Dynamics*, 22: 1-11 doi: 10.1007/s00382-003-0364-y, 2004.

Yuan*, F., B.K. Linsley, S. P. Lund, J. P. McGeehin, A 1200 year record of hydrologic variability in the Sierra Nevada from sediments in Walker Lake, Nevada, *Geophys. Geochem. Geosys.*, vol 5 (3), 1003, Q03007, doi: 10.1029/2003GC000652, 2004.

2003

- Rosenthal, Y., D. W. Oppo, B. K. Linsley, The amplitude and phasing of climate change during the last deglaciation in the Sulu Sea, western equatorial Pacific, *Geophysical Research Letters*, vol 30, no8, 1428, doi: 10.29/2002GL016612, 2003.
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- Dannenmann*, S., B. K. Linsley+, D. W. Oppo Y. Rosenthal, and L. Beaufort, East Asian monsoon forcing of suborbital variability in the Sulu Sea during Marine Isotope Stage 3: Link to northern Hemisphere climate, (+=*corresponding author*), *Geophys. Geochem. Geosys.*, vol 4, (1), 1001, doi: 10.1029/2002GC00390, 2003.
- Beaufort, L., T. de Garidel-Thoron, B. K. Linsley, D. Oppo, N. Buchet, Biomass burning and oceanic productivity estimates in the Sulu Sea area over the last 380 kyr and East Asian monsoon dynamics, *Marine Geology*, 201, 53-65, 2003.
- Benson, L., S. Lund, R. Negrini, B. K. Linsley, M. Zic, Response of North American Great Basin Lakes to Dansgaard-Oeschger oscillations, *Quaternary Science Reviews*, 22, 2239-2251, 2003.
- Benson, L., B. K. Linsley, J. Smoot, S. Mensing, S. Lund, S. Stine, A. Sarna-Wojcicki, Influence of the Pacific Decadal Oscillation (PDO) on the climate of the Sierra Nevada, California and Nevada. *Quaternary Research*, 59, 151-159, 2003.
- Ren*, L., B. K. Linsley, G. M. Wellington, D. P. Schrag, and O. Hoegh-Guldberg, Deconvolving the $\delta^{18}\text{O}_{\text{seawater}}$ Component from Subseasonal Coral $\delta^{18}\text{O}$ and Sr/Ca at Rarotonga in the Southwestern Subtropical Pacific for the period 1726-1997, *Geochimica et Cosmochimica, Acta*, vol 67, no. 9., 1609-1631, 2003.
- Elliot, M., P.B. deMenocal, B.K. Linsley, S.S. Howe, Environmental controls on the stable isotopic composition of *Mercenaria mercenaria*: Potential application to paleoenvironmental studies, *Geophys. Geochem. Geosys.*, vol 4, (7), 1056, doi: 10.1029/2002GC00042, 2003.
- 2002**
- Schrag, D. P., and B. K. Linsley, Corals, Chemistry and Climate, *Science (Perspective)*, vol. 296, 277-278, 2002.
- 2001**
- Evans, M.N., M.A. Cane, D.P. Schrag, A. Kaplan, B. K. Linsley, R. Villalba, and G.M. Wellington, Support for tropically-driven Pacific decadal variability based on paleo-proxy evidence, *Geophysical Research Letters*, vol 28, no. 19, 3689-2692, 2001.
- de Garidel-Thoron, T., L. Beaufort, B. K. Linsley, and S. Dannenmann*, Millennial-scale Dynamics of the East Asian Winter Monsoon during the last 200,000 years, *Paleoceanography*, 16, no. 5, 491-502, 2001.
- 2000**
- Linsley, B.K., G. M. Wellington, and D.P. Schrag, Decadal Sea Surface Temperature Variability in the Sub-tropical South Pacific from 1726 to 1997 A.D. *Science*, vol. 290, 1145-1148, 2000.
- Linsley, B.K., L. Ren*, R.B. Dunbar, and S.S. Howe, ENSO and decadal-scale climate variability at 10°N in the Eastern Pacific from 1893 to 1994; A coral-based reconstruction from Clipperton Atoll, *Paleoceanography*, vol. 15, no. 3, 322-335, 2000.
- Guilderson, T. P., D.P. Schrag, E. Goddard, M. Kashgarian, G. M. Wellington, B.K. Linsley, Southwest subtropical Pacific surface water radiocarbon in a high-resolution coral, *Radiocarbon*, vol. 42, 249-256, 2000.
- 1999**
- Linsley, B.K.; Messier*, R.G., and Dunbar, R.B., Assessing between colony oxygen isotope variability in the coral *Porites lobata* at Clipperton Atoll, *Coral Reefs*, vol. 18 (1), 13-27 1999.
- 1996**
- Linsley, B.K., Oxygen isotope evidence of sea level and climatic variations in the Sulu Sea over the past 150,000 years, *Nature*, vol. 380, 234-237, 1996.
- Dunbar, R.B., Linsley, B.K., and G.M. Wellington, Eastern Pacific corals monitor El Niño/Southern Oscillation, precipitation, and sea surface temperature variability over the past 3 centuries, in: Jones, P.D., R.S. Bradley, and J. Jouzel (eds.), *Climatic fluctuations and forcing mechanisms of the last 2000 years*, Springer-Verlag, Berlin, p. 375-407, 1996.
- 1994**
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Linsley, B.K., and R. B. Dunbar, The late Pleistocene history of surface water $\delta^{13}\text{C}$ in the Sulu Sea: Possible relationship to Pacific deep water $\delta^{13}\text{C}$ changes, *Paleoceanography*, vol 9, no.2, 317-340, 1994.

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Linsley, B.K., Carbonate sedimentation in the Sulu Sea Linked to the onset of northern Hemisphere glaciation; 2.4 Ma, *Ocean Drilling Program Leg 124, Scientific Results*, vol. 124, 375-378, 1991.

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Linsley, B.K., and Thunell, R.C., The record of deglaciation in the Sulu Sea: Evidence for the Younger Dryas event in the tropical western Pacific. in J.P. Kennett, ed., *Paleoceanography*, Special Issue on the Younger Dryas, 5, no. 6, 1025-1039, 1990.

Anderson, R.Y., Linsley, B.K., and Gardner, J.V., Expression of seasonal and ENSO forcing in climatic variability at lower than ENSO frequencies: Evidence from Pleistocene marine varves off California: in *Paleoclimates: The record from Lakes, Ocean, and Land*, eds. L.V. Benson, and P.A. Meyers, *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 78, 287-300, 1990.

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Linsley, B.K., Thunell, R.C., Morgan, C., and Williams, D.F., Oxygen minimum expansion in the Sulu Sea, western equatorial Pacific, during the last glacial low stand of sea level. *Marine Micropaleontology*, 9, 395-418, 1985.

Reynolds, L.A., and Linsley, B.K., Cross laminated and graded interpillow limestones, D.S.D.P., 562. in Bougault, H., and Cande, S.C. et al., *Initial Reports of the Deep Sea Drilling Project*, vol LXXXII, Wash. (U.S. Gov't Printing Office), 1985.

Un-Refereed Publications

Linsley, B.K., The Younger Dryas and Millennial-Scale oceanographic variability in the Sulu Sea; tropical western Pacific, in: *Proceedings of the 7th annual Pacific Climate (PACCLIM) Workshop*, Asilomar, Ca., eds. J.L. Betancourt and V. Tharp, 205-215, 1991.

Linsley, B.K., Anderson, R.Y., and Gardner, J.V., Rapid oxygen and carbon isotopic shifts preserved in late Pleistocene marine varves on the California margin: in: *Proceedings of the Sixth Annual Pacific Climate (PACCLIM) Workshop*, ed. J.L. Betancourt, Asilomar, Ca., California Dept. of Water Resources Technical Report 23, 83-86, 1990.

Book Review

El Niño: Historical and Paleoclimatic Aspects of the Southern Oscillation, edited by H.F. Diaz and V. Markgraf, 475 pp, 1992, *Science*, vol. 262, 1283-1284, 1993.

Grant Awards:

(Current) NSF: (OCE-1736602), Ventilation History of the Sulu Sea: Record of Abrupt Changes in the Tropical Western Pacific Thermocline (P.I. Linsley, B.K.), \$279,979, 8/15/17-8/14/19.

(Current): (COLUMBIA UNIV, World Surf League - PURE) Coral Reef Bleach Patrol (P.I.'s Linsley, B.K., Shaw, B.) \$189,800 6/1/16- 6/30/19.

COLUMBIA UNIV. Climate Center; The 2016 Coral Bleaching Event: Monitoring the Effects in Panamá and Reconstructing Bleaching History, (P.I., Linsley, B.K.), \$10,290 1/1/16 - 12/31/18

IODP USSSP support for participation on International Ocean Discovery Program (IODP) Leg 363 to the Western Pacific Warm Pool. (P.I., Linsley, B. K.), \$91,937, 10/1/16 to 11/30/17.

NSF: (OCE-1356948) Geochemical calibration of modern *Isopora* and *Acropora* corals from the Great Barrier Reef and application to the IODP Leg 325 fossil corals (P.I. Linsley, B.K.) \$183,808 4/1/14-4/31/17

NSF: (OCE-1203783) Collaborative Research: Developing a Continuous Reconstruction of Tropical Pacific Climate Over the Last 500-700 Years: Analysis of Massive *Porites* Corals from American Samoa, This project was collaborative with Robert Dunbar at Stanford University. Total budget = \$453,015: \$237,543 (LDEO) \$215,472 (Stanford). 8/15/12 - 8/14/15.

- NSF: (OCE-1030096) NSF Marine Geology and Geophysics; “Coral-based Reconstruction of salinity and temperature variability in the Southern Makassar Strait and its Influence on the Indonesian Throughflow.” (P.I. B. K. Linsley), total budget = \$339,877, 10/1/10-9/30/13.
- NSF: (OCE-926485) NSF Marine Geology and Geophysics; Collaborative Research: Extracting multi-century low-latitude sea surface temperatures from coral skeletons using replicated records of annual growth: method refinement & application. Collaborative with A. Cohen and D. Oppo at WHOI; NSF MG&G, total budget = \$785,069 (SUNYA \$104,402; WHOI \$680,667), 9/1/09-8/31/13.
- IODP: USSSP in support of IODP Leg325 post-cruise research, “Preliminary analysis of IODP Leg 325 Great Barrier Reef Coral Samples,” budget request = \$14,994, 7/2/10-7/31/12.
- NOAA: CCDD Paleoclimate Program, “Coral Records of Low Frequency South Pacific Convergence Zone Variability”, P.I.: Dr. B. K. Linsley, University at Albany-SUNY, total budget = \$206,511. 8/1/10-7/31/12.
- NSF: (OCE-0902679) NSF P2C2; Collaborative Research: Temperature reconstruction of the western equatorial Pacific thermocline during the last ~2000 years: A paleo-perspective for modern observations; Collaborative with Y. Rosenthal (Rutgers); Total budget = \$279,716; SUNYA budget = \$94,399; 7/1/09-6/30/11. One year no-cost extension to 6/30/12.
- NSF: (ATM-0959148) Principal Investigator, NSF MRI-R: Proposal; “Acquisition of Stable Isotope Instrumentation for High Precision Paleoclimatic and Environmental Research at the Lamont Doherty Earth Observatory”, PI’s B. Linsley, K. Anchukaitis, P. Schlosser, P. deMenocal, B. Yan, total budget = \$1,160,731, includes LDEO match of \$348,863; Total NSF budget = \$811,868, 5/1/10 – 4/31/12. For B.K.L. submitted via his at the time adjunct scientist status at LDEO.
- NSF: Principal Investigator, Earth Systems History Program (ESH); (\$142,662) 6/1/05-5/31/08, “Collaborative Research; Reconstructing Holocene climatic variability and Indonesian Throughflow in the western equatorial Pacific”, This is the second phase of a collaborative project with Dr. Y. Rosenthal, Department of Marine and Coastal Science, Rutgers University, New Brunswick NJ and Dr. D. Oppo, Department of Geology and Geophysics, Woods Hole Oceanographic Institution, Woods Hole MA. (total funding = \$623,568)
- NSF: (OCE-0318296) NSF Earth Systems History Program (ESH); (\$352,742), 8/1/03 to 7/31/08, Principal Investigator, “Collaborative Research: Developing a network of coral records documenting South Pacific Climate Variability”. This was a collaborative project with Dr. A. Kaplan (at the Lamont Doherty Earth Observatory of Columbia University) and Dr. Gerard Wellington (formerly at the University of Houston) (total funding = \$474,457).
- NSF: Principal Investigator, NSF Marine Geology and Geophysics Program via subcontract with Woods Hole Oceanographic Institution (\$109,948) 8/1/02 to 2/28/05, “Collaborative Research; Reconstructing Holocene climatic variability and Indonesian Throughflow in the western equatorial Pacific”, This was a collaborative project with Y. Rosenthal (Rutgers) and D. Oppo (Woods Hole Oceanographic Institution), (total project costs= \$858,100).
- NOAA: Principal Investigator, NOAA Earth Systems History Program. (\$162,495), 9/1/99 to 2/31/03, Climate Records From Corals in the South Pacific Subtropical Gyre . This was a collaborative project with G. M. Wellington at the University of Houston (total project costs= \$281,985).
- NSF Principal Investigator, Grant OCE-9710156. (\$119,989), 7/1/97 to 6/30/01, Centennial-Millennial Scale Oscillations in the East Asian Monsoon. This was a collaborative project with D. Oppo at the Woods Hole Oceanographic Institution. (total project costs= \$428,361)
- NSF Principal Investigator, NSF Grant ATM-9901649. (\$31,764), 1/1/99 to 12/31/00, Climate Records From Corals in the Central and Western Sectors of the Tropical South Pacific. This was a collaborative project with G. M. Wellington at the University of Houston (total project costs = \$49,903).
- University at Albany-SUNY, Principal Investigator, Faculty Development Award (\$9,700), 12/1/99 to 11/30/00, Stable isotope microanalysis of clam (*V. mercenaria*) shells from archeological shell midden sites near Cape Hatteras: A new archive of seasonal-interannual ocean temperature variability during the latest Holocene. This was a collaborative project with Dr. Peter deMenocal at Lamont Doherty Earth Observatory.

NSF: Principal Investigator, Grant ATM-9512289; (\$144,683), 9/1/95 to 2/28/97. -Project title: "Acquisition of an Isotope Ratio Mass Spectrometer (IRMS) for the University at Albany-SUNY's Environmental Geochemistry - Program." Matching funds provided by The Research Foundation of SUNY.

NSF: Principal Investigator: Grant SGER ATM 9409368 (\$39,123), 4/1/94 to 3/31/95 -Project title: "Collection of Multi-Century Coral Records of Ocean-Atmosphere Variability From Clipperton Atoll."

DOE: Co-Principal Investigator (w/ R. Dunbar): National Institute for Global Environmental Change (NIGEC; Dept. of Energy) Grant, (\$118,584), (6/93 to 6/96). -Project title: "Coral based reconstruction of eastern Pacific climate and the Intertropical Convergence Zone over the last 300 years." (total project cost = \$242,880)

NSF Principal Investigator: Grant ATM-9116780, (\$61,848), 3/92 to 3/95.-Project title: "High Frequency Ocean-Climate Variability and Younger Dryas Style Events in the Sulu Sea During the Last 750,000 Years." Reconstructed late Pleistocene millennial-scale oceanographic variability in the Sulu Sea.

DOE: 1992-1994: U.S. Department of Energy Distinguished Global Change Post Doctoral Fellow, at Rice University, (\$72,000), Mentor; Dr. Robert B. Dunbar, (8/92 to 8/94). Fellowship Title: "Hermitic Coral Skeletal $\delta^{18}\text{O}$ and Density Bands: Development as Tracers of Oceanographic Conditions in the Eastern Pacific."

IODP: 1989-1990: Principal Investigator, U.S. Science Support Program Grant (JOI-USSSP-NSF, \$24,000), in support of post cruise Ocean Drilling Program (ODP) research, University of New Mexico, Albuquerque, NM.

Teaching

(Stable Isotope Geochemistry): I currently teach the Stable Isotope Geochemistry class in the Department of Earth and Environmental Sciences (DEES) at Columbia to a mix of graduate and undergraduate students (taught spring 2013, 2015, 2017, scheduled Spring 2019).

(Monitoring and Analysis of Marine and Estuary Systems): I am also teaching a class on Marine and Estuary systems in the M.S. in Sustainability Science Program.

Previously I taught multiple classes as a Professor at the University at Albany-SUNY from 1995-2011. My teaching interest/experience has included introductory environmental science, sedimentology, oceanography, paleoclimatology, paleoceanography, and applied hydrogeology. In total I have designed six new class from the ground up; *Environmental Geology* (Geo105), *Sedimentology* (Geo335) and *Hydrogeology* (Geo/Env 435/535); *Climate Change/Paleoclimatology* (Geo/Env 450/550) and *Marine and Estuary Systems* (Geo/Env 466/566).

Mentoring/Advising

I have an active policy of involving graduate students in important research projects. For example, of the 51 papers that have resulted from my various research projects since 2000, 16 are first-authored by my graduate students and another 6 were co-authored by my graduate students.

Graduate Students: Primary advisor to these graduate student;

Jonathan Lambert (fall 2017 to present) 2nd year graduate student at LDEO.

Thomas Weiss (fall 2016 to present) 3rd year graduate student at LDEO. Thesis research related to determining the ventilation history of the Sulu Sea in the western tropical Pacific in relation to high latitude melt-water events.

Logan Brenner (2013-2017), Ph.D dissertation defended and degree to be awarded summer 2017. Used corals in the Gulf of Chiriquí Panamá to reconstruct ITCZ variability and also calibrated oxygen isotopes and strontium content of the coral *Isopora* for application to IODP325 Great Barrier Reef fossil corals. Logan had a 3 year NSF fellowship that supported her research (fall 2014- 8/2017). For fall 2017-Spring 2019 Logan was a Lecturer in Discipline, Frontiers of Science, Post-Doctoral Researcher in the Department of Earth and Environmental Sciences, Lamont-Doherty Earth Observatory of Columbia University. As of July 1 2019, Assistant Professor at Barnard College in New York City.

Emilie P. Dassié (2012), Ph.D., Assessing the reproducibility of coral oxygen and carbon isotope time series from Fiji and Tonga and their application to the reconstruction of South Pacific Convergence.

- Zone movements since the mid-1800s. 211pp, University at Albany-SUNY. Emilie was a postdoctoral researcher at Lamont-Doherty from 2013 until June 2014 and is currently a Research Scientist at the University of Bordeaux, Bordeaux, France.
- Gavin Lemley (2012), M.Sc., Assessing $\delta^{18}\text{O}$ in the coral genus *Isopora* for reconstructing Indo-Pacific regional and seasonal climate variability, 63pp. University at Albany-SUNY. Gavin now works for the NYS Department of Environmental Conservation (DEC).
- Samantha Langton (2011), Ph.D., title: Western equatorial Pacific climate variability from restricted basins: Century scale changes in Kau Bay to glacial-interglacial changes in the Sulu Sea. Samantha is currently an Assistant Professor at Dutchess Community College in NY.
- Henry Wu (2010), Ph.D., title: Assessing replicated coral trace element (Sr/Ca and Mg/Ca) variability and skeletal growth records from the tropical Pacific. Dr. Wu is currently a Junior Group Leader postdoc Geocology and Carbonate Sedimentology at the Leibniz Centre for Tropical Marine Research (ZMT) at the University of Bremen in Germany.
- Peipei Zhang, (2007), M.Sc., Interdecadal-Decadal Climate Variability from Multi-coral Oxygen Isotope Records in the South Pacific Convergence Zone Region since 1650AD. Following her M.S. work at SUNYA, Ms. Zhang received a M.S. in statistics from the University of Chicago and now works in the financial services industry.
- Geraldean Hourigan (2006), M.Sc., Evaluating the Deep-Sea Coral *Acanella* From Hawaii as a Paleooceanographic Archive. Ms. Hourigan is a high school earth science teacher in Washington DC.
- Alexa Stolorow (2006), M.Sc., Assessing the paleoceanographic potential of the coral *Astrea myriophthalma* at Fanning Atoll, central equatorial Pacific. Ms. Stolorow now works for the NYS Museum in Albany NY.
- Jonathan MacDonald (2004) M.Sc.; Assessing geochemical proxies from Hawaii corals. Mr. MacDonald is now an agent with the U.S. Federal Bureau of Investigations (FBI).
- Stafan Bagato (2003), M.Sc.; Developing the use of the coral *Diploastrea helipora* as a paleoclimatic archive. Mr. Bagnato works as a Project Geologist at Malcolm Pirnie, Inc. in Latham, NY.
- Fasong Yuan (2003), Ph.D.; Late Holocene hydrologic and climatic variability in the Walker Lake Basin, Nevada and California. Following postdoctoral work at Texas A&M University in El Paso Texas, Dr. Yuan is now an Associate Professor in the Department of Biological, Geological and Environmental Sciences at Cleveland State University.
- Lei Ren (2002), Ph.D.; Coral records of climatic variability from Rarotonga in the subtropical South Pacific.
- Stefanie Dannenmann, (2001), Ph.D.; A multi-proxy study of planktonic foraminifera to identify past millennial-scale climate variability in the East Asian Monsoon and the Western Pacific Warm Pool.” Dr. Dannenmann is now a Programme Officer at the United Nations Office for Disaster Risk Reduction (UNISDR) Europe UN House, 14 Rue Montoyer, 1000 Brussels, Belgium.
- Ambrosino, A.M. (2001), M.Sc.; Sediment characteristics around the Kenyon Island group, Great Sacandaga Lake (NY): economic potential of dredging and land reclamation.
- John Nadeau, (2000), M.Sc.; “Oxygen Isotopes and herbicide residues in water samples from a portion of Canajoharie Creek field site in central New York.” Mr. Nadeau now Geologist at Alpha Geoscience and Environmental Services Consultant in the Albany, New York Area.
- Lei Ren, (1998), M.Sc.; “Identification of past climate variability of the eastern Pacific Ocean using both $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ records in corals from Clipperton Atoll (1906-1994).

High School Summer Interns and High School Students advised while at LDEO

- Juliette Guillot* (The Lyceé, French School NYC, June 2019)
- Viviane Solomon* (The Lyceé, French School NYC, June 2019)
- Julie Drahman* (The Lyceé, French School NYC, June 2019)
- Elliott Forey* (The Lyceé, French School NYC, June 2019)
- Jerrick Bravo* (McClellan High School, McClellan VA; July 2019)
- Roman Dias Pinto* (The Lyceé, French School NYC, summer 2018)
- Jonathan Vasquez* (Post Chester NY High School, spring 2017 to spring 2018)

Martin Dias Pinto (The Lyceé, French School NYC, summer 2017)

Olivia Wogan (Rondout High School, summer 2017- present)

Serena Zhang (The Friends High School, summer 2017-present)

Katherine Sung (Tenafly NJ High School, summer 2016, spring 2017)

Emile Warot (The Lyceé, French School NYC, summer 2016)

Spencer Lamdin (Canaan CT High School, summer 2012)

Lamont-Doherty Earth Observatory Service Activities (2011- present).

Co-Director and member of the Admissions and Curriculum Committees; Masters in Sustainability Science Program, School of Professional Studies, Columbia University; 2017-present

Director of the LDEO Stable Isotope Laboratory, 2011-present

Chair, LDEO Climate Center, Fall 2016 -present

Review Panel Member; LDEO Climate Center; 2011-2016

LDEO postdoctoral fellowship review committee; fall 2015 and January 2016

LDEO: Chair of Climate and Paleoclimate sub-committee for 2016 Lamont Research Professor (LARP) search

Colloquium Seminar Series organizer 2011-2012

Ad-hoc committee work (as asked)

University at Albany-SUNY Service Activities (1995-2011)

Director of the Stable Isotope Laboratory University at Albany, (1995 to 2011)

Member of the College of Arts and Sciences Academic Program Committee; 2009-2010.

Chair of search committee to fill open tenure-track position in Environmental Science at the University at Albany (2006-2007). 92 applications processed.

Member of committee to propose modifications to Geology and Environmental Science majors, 2005-2011.

Undergraduate advisor for all Biology concentration majors within the Environmental Science B.S. (~25 students) (Summer 2005 to 2011)

Undergraduate advisor for all of Earth Science and Biology concentration majors within the Environmental Science B.S. (~25 students) (Fall 2002-2005)

Co-Chaired the committee to develop a new B.S. degree in Environmental Science within the Department of Earth and Atmospheric Sciences and 3 other departments at the University at Albany (2002). The major consists of a core curriculum of scientific foundation classes then students elect to concentrate in either: Earth Science, Biology, Atmospheric Science, or Geography and Planning This program now has 85 majors.

Co-Chair Faculty Council Committee on Faculty Development (fall 2000-Spring 2001)

Chair of Faculty Council Committee on Faculty Development (fall 1999-Spring 2000)

Undergraduate advisor for 1/2 of geology track undergraduates (Fall 1998- Fall 2002)

Contributed coral specimens and X-rays to American Museum of Natural History for display in their new Hall of Planet Earth. Exhibit opened in May 1999.

Invited Seminars (selected)

Invited Seminar at CUNY, The Graduate Center, 365 5th Avenue NY, NY; Indonesian Coral Records of Abrupt Shifts in the Position of the South Pacific Convergence Zone Tropical Rain Belt, May 10, 2018.

Seminar at CLIVAR Decadal climate variability and predictability meeting held at the International Centre for Theoretical Physics (ICTP), Trieste, Italy. INVITED Talk title: "Coral Records of IPO and ENSO Variability in the South Pacific: New Results from the Expanding Coral Network". 11/16/15 to 11/20/15:

Seminar in LDEO BPE Spring 2015 series, Presented "Coral Records of PDO and ENSO Variability in the South Pacific: New Results from the Expanding Coral Network. *Part 1*: Fiji, Tonga Rarotonga: PDO and Ocean Heat. *Part 2*: Ta'u, American Samoa; PDO and ENSO: May 18, 2015

Seminar in LDEO BPE Spring 2014 series. Presented "South Pacific Decadal SST Variability Since 1791 C.E. Related to Stalls in Rising Earth Surface Temperature: Evidence from Corals; April 30, 2014.

Seminar and Panel Member; Climate Change at Hofstra University. Presented results related to coral records of decadal variability in the Pacific and served as panel member answering questions on climate change, February 20, 2014.

Seminar at Rutgers, Institute of Marine and Coastal Sciences, A Coral Network Approach to Paleo-Reconstructions; Windows into South Pacific Convergence Zone and South Equatorial Current Dynamics Over the Last Several Centuries. Given September 26, 2011.

Seminar at SUNYA in the Department of Atmospheric and Environmental Sciences (DAES); "Evolution of the Indonesian Throughflow and Western Pacific Warm Pool During the Holocene", given 3/1/10.

Presentation on the use of South Pacific corals to reconstruct climate variability to Judge Eleanor Stein's class on the Law of Climate Change, March 9, 2009, University at Albany-SUNY

Seminar presented at the Lamont Doherty Earth Observatory of Columbia University, December 5, 2008; Replicated Coral Records of South Pacific Convergence Zone Variability over the last 400 years: SPCZ Expansion and the Interaction of ENSO and Interdecadal Climate Variability.

Seminar presented at the Lamont Doherty Earth Observatory of Columbia University, March 14, 2008
Topic; Coral records of interdecadal climate variability in the Southwest Pacific.

Seminar at SUNYA in Department of Atmospheric and Environmental Sciences (DEAS), October 24, 2007:
Title: Coral records of SPCZ expansion since the mid-1800s and South Pacific coral records of Pacific-wide interdecadal-decadal climate variability since 1650 A.D.

Seminar at Schenectady NY TORCH Club dinner; May 11, 2006; Global Warming Debate with Dr. Chris Walcek.

Seminar at Lamont Doherty Earth Observatory: April 16, 2004: Geochemical Evidence from Corals for changes in the amplitude and spatial pattern of Pacific Interdecadal climatic variability over the last 300 years. Seminar at the Lamont Doherty Earth Observatory of Columbia University.

Seminar at Rutgers University: April 5, 2004: Geochemical Evidence from Corals for changes in the amplitude and spatial pattern of Pacific Interdecadal climatic variability over the last 300 years. Seminar at the Institute for Marine and Coastal Sciences, Rutgers University.

Seminar at SUNYA: October 22, 2003; Geochemical Evidence from Corals for changes in the amplitude and spatial pattern of Pacific Interdecadal climatic variability over the last 300 years. Department of Earth and Atmospheric Sciences Wednesday seminar series, University at Albany.

Seminar at Colgate University, Coral reefs as recorders of global climate change, April 2, 2002

Two seminars at the University of Hawaii, January 18 and 19, 2001;

- 1.) Coral evidence of the interaction between the Pacific tropics and subtropics on decadal time-scales.
- 2.) Millennial tropical climatic variability as recorded in the Sulu Sea

Seminar at the Natural History Lecture Series at SUNYA, April 3, 2001; titled "Coral evidence for the interaction between the Pacific tropics and subtropics on decadal time-scales"

Seminar presented by BKL at Asian Monsoon Symposium, May 9-11, 2001; Beijing, China, Title "Millennial Variability of the East Asian Monsoon/Western Pacific Warm Pool and the North Atlantic Throughout the Past 400,000 Years. Authors D.W. Oppo, B. K. Linsley, Y. Rosenthal, S. Dannenmann, J. Cullen, J. McManus and L. Beaufort

Seminar at RPI: "The Developing Utilization of Pacific Corals in Reconstructing Interannual and Decadal Climate change", March 24, 1999.

Seminar at the Conference on Marine Environment, the Past, Present, and Future, January 26-28, 1999, National Sun Yat-Sen University, Kaohsiung, Taiwan, pp. 144-145, 1999,

Seminar at Lamont Doherty Earth Observatory of Columbia University, "Millennial-Scale Surface Water Variability in the Sulu Sea: Tropical Instability or High Latitude Forcing?", December 1, 1998.

Panel Member at UCALL Global Warming Discussion at Union College, November 3, 1998.

Seminar at Union College UCALL session titled "Past Climatic Variability in the Tropics; Stability or Instability", 10/20/98.

Seminar at the University at Albany Atmospheric Science Research Center (ASRC) Whiteface Mountain Summer Lecture Series, "If Corals Could Talk: or what can Corals tell us about seasonal to decadal-scale climatic change in the tropics and globally", Whiteface Mountain Field Station, Whiteface Mtn., NY, 7/22/97,

Seminar at Syracuse University, Unraveling the climatic signal preserved in corals; Examples from Panama, Clipperton Atoll, and the Line Islands, February 27, 1997.

Seminar at Union College, Schenectady N.Y., “Reconstructing El Nino Events Using Corals”, October 1997.

Seminar at the University at Albany Earth Science Joint Colloquium Series, Fall 1995.

Abstracts Presented; (*=BKL students or former students)

- Brenner, L. D., B. K. Linsley, R. B. Dunbar, Examining the utility of coral Ba/Ca as a proxy for river discharge and hydroclimate variability at Coiba Island, Gulf of Chiriquí, Panamá, PP13A-1071, Poster presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Weiss, T. K. C., and B. K. Linsley, Century and Millennial-scale Changes in the Western Equatorial Pacific Thermocline in Relationship to Higher Latitude Processes, PP31E-03; Talk presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Tangri, N. B. K. Linsley, R. B. Dunbar, D. Mucciarone, Shifting patterns of ENSO variability from a 492-year South Pacific coral core, PP13A-1067, Poster presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.
- Brenner*, L. D., B. K. Linsley, D. C. Potts, Felis, H. V. McGregor, M. K. Gagan, M. Inoue, A. W. Tudhope, A. Suzuki, A. L. Thomas, T. M. Esat, W. G. Thompson, M. Tiwari, S. Fallon, Marc Humblet, Y. Yokoyama, J. M. Webster, Development and Application of Sr/Ca- $\delta^{18}\text{O}$ -Sea Surface Temperature calibrations for Last Glacial Maximum-Aged *Isopora* corals in the Great Barrier Reef, abstract AGU Fall 2016 meeting (poster).
- Felis, T., H. V. McGregor, B. K. Linsley, A. W. Tudhope, M. K. Gagan, A. Suzuki, M. Inoue, A. L. Thomas, T. M. Esat, W. G. Thompson, M. Tiwari, D. C. Potts, M. Mudelsee, Y. Yokoyama, and J. M. Webster, Intensification of the meridional temperature gradient in the Great Barrier Reef following the Last Glacial Maximum - Results from IODP Expedition 325, talk at EGU General Assembly 2015, EGU2015-10089, April 15th, 2015.
- Linsley, B.K. H.C. Wu*, E. P. Dassié*, D. P. Schrag, South Pacific Sea Surface Temperatures: Proxy for the Pacific Decadal Oscillation and Upper Ocean Heat Content Over the Last Two Centuries, A11B-3017, (Poster Presentation, American Geophysical Union Fall Meeting, 2014).
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