

CURRICULUM VITAE
ANDRÉA GENEVIÈVE GROTTOLI

ADDRESS AND CONTACT INFORMATION:

School of Earth Sciences (SES)
The Ohio State University
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Columbus, OH 43210

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Twitter: www.twitter.com/CoralResearch

RESEARCH INTERESTS:

- Impact of climate change (i.e., temperature and ocean acidification) on coral physiology, ecology, isotope biogeochemistry, and resilience
- Tropical paleoceanography derived from coral, gorgonian, and sclerosponge skeleton light isotope ratio ($\delta^{13}\text{C}$, $\delta^{18}\text{O}$, $\Delta^{14}\text{C}$) and elemental ratio (Cd/Ca, Ba/Ca, Sr/Ca) proxy records
- Impact of land use change on carbon cycle of rivers and coastal waters

EDUCATION:

McGill University, Montreal Canada	Biology (with Distinction)	BSc. 1992
University of Houston, Texas	Biology (Marine Biogeochemistry)	PhD. 1998
University of California – Irvine, California	Postdoctoral Fellow (Paleoceanography)	1999-2000

Senior Thesis Advisor:	Prof. Robert Peters (deceased), McGill University
PhD Advisor:	Prof. Gerard M. Wellington (deceased), U. of Houston
Postdoctoral Advisor:	Prof. Ellen R.M. Druffel, U. of California – Irvine

POSITIONS HELD:

2014 - Professor, School of Earth Sciences, Ohio State University
2017 - Chair, Promotion and Tenure Committee, School of Earth Sciences (SES)
2008 - Affiliated Professor, Dept of Ecology, Evolution, and Organismal Biol., Ohio State U.
2013 - 2017 International Society for Reef Studies Council Member, Chair of Awards Committee
2005 - 2017 Head of the Stable Isotope Biogeochemistry Lab, School of Earth Sciences, OSU
2015 - 2016 OSU-President and Provost's Leadership Institute Fellow (PPLI)
2010 - 2016 Chair of the Water, Climate, & the Environment Division, School of Earth Sciences, OSU
2013 - 2014 OSU-Committee on Institutional Cooperation Academic Leadership Program Fellow
2008 - 2014 Associate Professor, School of Earth Sciences, Ohio State University
2008 - 2011 Associate Professor, Environmental Science Graduate Program, Ohio State U.
2005 - 2008 Assistant Professor, Environmental Science Graduate Program, Ohio State U.
2005 - 2008 Assistant Professor, School of Earth Sciences, Ohio State University
2004, 2012, 2016 Associate Editor for my session, Proceedings of the Int'l Coral Reefs Symposium
2004 - 2005 Career Enhancement Fellow, Woodrow Wilson National Fellowship Foundation
2001 - 2005 Assistant Professor, Dept of Earth & Environmental Sci., University of Pennsylvania
2001 - 2005 Faculty Fellow in Residence, Fisher-Hassenfeld House, University of Pennsylvania
2001 - 2003 Associate Editor, Coral Reefs (Journal of the International Society for Reef Studies)
2002 - 2003 Co-Editor, Coral Reefs Special Issue: Env. and Climatic Proxies in Reef Organisms
1999 - 2000 Dreyfus Postdoctoral Fellow in Environmental Chemistry, Univ. California-Irvine
1998 Adjunct Faculty, Dept of Biology and Microbiology, California State U.-LA
1998 Adjunct Faculty, Dept of Biology, Concordia University
1993 - 1998 Graduate Student Teaching Assistant/ Research Assistant

AWARDS:

- 2017 American Association for the Advancement of Science (AAAS) Fellow
2016 International Society for Reef Studies Fellow
2016 International Society for Reef Studies Mid-Career Award
2016 School of Earth Science Faculty Mentor Award
2015-2016 Ohio State University President and Provost's Leadership Institute Fellow
2013-2014 Committee on Institutional Cooperation Academic Leadership Program Fellow
2004 F. W. Clarke Award, Geochemical Society, Young Scientist Award in geochemistry or cosmochemistry.
2004 Bradley Award: Geological Society of Washington's Best Paper Award
2004 Woodrow Wilson National Fellowship, Career Enhancement Fellowship for Junior Faculty
2004 Trustees Council of Penn Women Summer Faculty Research Fellowship
2003 American Society of Mass Spectrometry Research Award
2000 Best Paper Award: International Society for Reef Studies, Grottoli & Wellington: Coral Reefs
1999 Dissertation Symposium in Chemical Oceanography XV, awardee and participant
1999-2000 Dreyfus Postdoctoral Fellowship in Environmental Chemistry, U. of California - Irvine
1999 University Women Postdoctoral Research Leave Fellowship, AAUW (declined for Dreyfus)
1996-1998 Environmental Protection Agency Graduate STAR Graduate Fellowship
1998 Graduate Student Research Excellence Award, University of Houston, TX
1989 McConnell Entrance Award, McGill University, Canada

STATS SUMMARY:

Google Citation indices	All	Since 2013	Category	Career Total
Citations	3410	2078	Peer-reviewed publications	70
h-index	30	24	Total funding (total to Grottoli)	\$4M (\$2.5M)
i10-index	54	45	Lead PI	22 of 23 grants

PEER-REVIEWED PUBLICATIONS (*= my student advisee or postdoc, †=other students):

- 2018 (70) Barker JD, Grottoli AG, Lyons WB (in press) Stable isotope evidence for the biogeochemical transformation of ancient organic matter beneath Sues Glacier, Antarctica. *Arctic, Antarctic, and Alpine Research*
- 2018 (69) **Grottoli** AG, *Dalcin Martins P, Wilkins MJ, Johnston MD, Warner ME, Cai WJ, Melman TF, †Hoadley KD, †Pettay DT, Hu X, *Levas S, *Schoepf V, Coral physiology and microbiome dynamics under combined ocean warming and acidification. *PLoS ONE* 13(1): e0191156, 10.1371/journal.pone.0191156
➤ Press release by OSU
- 2017 (68) **Grottoli** AG, Tchernov D, Winters G, Physiological and Biogeochemical Responses of Super-Corals to Thermal Stress from the Northern Gulf of Aqaba, Red Sea. *Frontiers in Marine Science* 4:215, 10.3389/fmars.2017.00215
- 2017 (67) *Bellamy AR, Bauer JE, **Grottoli** AG, Influence of land use and lithology on sources and ages of nutritional resources for stream macroinvertebrates: a multi-isotopic approach. *Aquatic Sciences*, 79(4):925-939, 10.1007/s00027-017-0542-3

- 2017 (66) *Tanaka Y, **Grottoli** AG, Matsui Y, Suzuki A, Kazuhiko S. Effects of moderate nutrient enrichment on the organic matter and carbonate skeleton of scleractinian corals. *Marine Ecology Progress Series* 570:101-112, 10.3354/meps12079
- 2017 (65) *Schoepf V, Hu X, Holcomb M, Cai WJ, †Li Q, Wang Y, †Xu H, Warner ME, Melman TF, †Hoadley KD, Pettay DT, Matsui Y, *Baumann JH, **Grottoli** AG. Coral calcification under environmental change: a direct comparison of the alkalinity anomaly and buoyant weight techniques. *Coral Reefs* 36: 13-25, 10.1007/s00338-016-1507-z
- 2016 (64) †Hoadley KD, Pettay KD, **Grottoli** AG, Cai WJ, Melman TF, *Levas S, *Schoepf V, †Ding Q, †Yuan X, Wang Y, Matsui Y, *Baumann JH, Warner ME. High temperature acclimation strategies within the thermally tolerant endosymbiont *Symbiodinium trenchii* and its coral host, *Turbinaria reniformis*, differ with changing pCO₂ and nutrients. *Marine Biology* 163:134, 10.1007/s00227-016-2909-8
- 2016 (63) *Williams B, Thibodeau B, Chikaraishi Y, Ohkouchi N, Walnum A, **Grottoli** AG, Colin P. Consistency in coral skeletal amino acid composition offshore of Palau in the western Pacific warm pool indicates no impact of decadal variability in nitricline depth on primary productivity. *Limnology and Oceanography* 62:399-407, 10.1002/lno.10364
- 2016 (62) *Levas SJ, **Grottoli** AG, *Schoepf V, †Aschaffenburg M, *Baumann J, Bauer JE, Warner M. Can heterotrophic uptake of DOC and zooplankton mitigate C budget deficits in annually bleached corals? *Coral Reefs* 35:495-506 doi:10.1007/s00338-015-1390-z
- 2016 (61) Cai WJ, Ma Y, Hopkinson B, **Grottoli** A, Warner M, †Ding Q, Hu X, †Yuan X, *Schoepf V, Xu H, Han C, Melman T, †Hoadley K, Pettay DT, Matsui Y, *Baumann J, *Levas S, Ye Y, Wang Y. Microelectrode characterization of coral daytime interior pH and carbonate chemistry. *Nature Communications* 7:11144 doi: 10.1038/ncomms11144
 ➤ Press release by OSU, UD
- 2016 (60) LaVigne M, **Grottoli** AG, *Palardy J, Sherrell RM. Multi-colony calibrations of coral Ba/Ca with a contemporaneous *in situ* seawater barium record. *Geochimica et Cosmochimica Acta* 179:203-216.
- 2015 (59) †Hoadley KD, †Pettay DY, **Grottoli** AG, Cai WJ, Melman TF, *Schoepf V, †Hu X, †Li Q, †Xu H, Wang Y, Matsui Y, *Baumann JH, Warner ME. The physiological response of four Pacific coral species to elevated temperature and pCO₂: Comparing the host vs. symbiont response. *Nature Scientific Reports* 5:18371, DOI: 10.1038/srep18371
- 2015 (58) *Schoepf V, **Grottoli** AG, *Levas SJ, †Aschaffenburg MD, *Baumann J, Matsui Y, Warner ME. Annual coral bleaching can impair the long-term recovery capacity of corals. *Proceedings of the Royal Society B* 282: 20151887. <http://dx.doi.org/10.1098/rspb.2015.1887>
 ➤ Covered by: OSU press release, Science World Report, Climate Wire, EurekaAlert!, others
- 2015 (57) Andersson AJ, Kline DI, Edmunds PJ, Archer SD, Bednarsek N, Carpenter RC, Chadsey M, Goldstein P, **Grottoli** AG, Hurst TP, King AL, Kubler JE, Kuffner IB, Mackey KRM, Menge BA, Paytan A, Reibesell U, Schnetzer A, Warner ME, Zimmerman RC. The day after tomorrow: Understanding ocean acidification impacts on organismal to ecological scales. *Oceanography* 28(2):16–27, <http://dx.doi.org/10.5670/oceanog.2015.27>.
- 2015 (56) *Tanaka Y, **Grottoli** AG, Matsui Y, Suzuki A, Sakai K. Partitioning of nitrogen sources to coral algal endosymbionts with long-term ¹⁵N-labelling and a mixing model. *Ecological Modeling* 309-310: 163-169, <http://dx.doi.org/10.1016/j.ecolmodel.2015.04.017>

- 2015 (55) *Levas, S, **Grottoli AG**, Warner ME, Cai WJ, Bauer J, *Schoepf V, Matsui Y, *Baumann JH, Melman TF, †Hoadley KD, †Pettay DT, †Q Li, †Hu X, Wang Y. Organic carbon fluxes mediated by corals at elevated $p\text{CO}_2$ and temperature. *Marine Ecology Progress Series*, 519:153-164, doi: 10.3354/meps11072.
- 2014 (54) *Schoepf V, McCulloch MT, Warner ME, *Levas SJ, Matsui Y, Aschaffenburg D, **Grottoli AG**. Short-term coral bleaching is not recorded by skeletal boron isotopes. *PLoS One* 9(11): e112011. doi:10.1371/journal.pone.0112011
- 2014 (53) *Baumann J, **Grottoli AG**, *Hughes AD, Matsui Y. Photoautotrophic and heterotrophic carbon in bleached and non-bleached coral lipid acquisition and storage. *Journal of Experimental Marine Biology and Ecology*. 461: 469-478. doi.org/10.1016/j.jembe.2014.09.017
- 2014 (52) *Schoepf B, *Levas SJ, Rodrigues LJ, *McBride MO, †Aschaffenburg MD, Matsui Y, Warner ME, Hughes A, **Grottoli AG**. Kinetic and metabolic isotope effects in coral skeletal carbon isotopes: a re-evaluation using experimental coral bleaching as a case study. *Geochimica et Cosmochimica Acta*. 146: 164-178. doi.org/10.1016/j.gca.2014.09.033
- 2014 (51) **Grottoli AG**, Warner ME, *Levas SJ, †Aschaffenburg M, *Schoepf V, †McGinley M, *Baumann J, Matsui Y. The cumulative impact of annual coral bleaching turns some coral species winners into losers. *Global Change Biology* 20: 3823-3833. 10.1111/gcb.12658
 ➤ Covered by: OSU Press release, NSF Science 360, SciGuru, Smithsonian, Ensia
- 2013 (50) *Hughes A, **Grottoli AG**. Heterotrophic compensation: A possible mechanism for resilience of coral reefs to global warming or a sign of prolonged stress? *PLoS ONE* 8(11): e81172, doi:10.1371/journal.pone.0081172
- 2013 (49) *Schoepf V, **Grottoli AG**, Warner ME, Cai W-J, Melman T, *Baumann J, Matsui Y, †Pattay D, †Hoadley K, †Hui X, Wang Y, †Li Q, †Hu X. Coral energy reserves and calcification in a high- CO_2 world at two temperatures. *PLoS ONE* 8(10): e75049, doi:10.1371/journal.pone.0075049
- 2013 (48) **Grottoli AG**, *Matthews KA, *Palardy JE, McDonough WF. High resolution coral Cd measurements using LA-ICP-MS and ID-ICP-MS: Calibration and interpretation. *Chemical Geology*, 365: 151-159, 10.1016/j.chemgeo.2013.08.024
- 2013 (47) *Levas S, **Grottoli AG**, *Hughes A, Osburn C, Matsui Y. Physiological and biogeochemical traits of bleaching and recovery in the mounding species of coral *Porites lobata*: implications for resilience in mounding corals. *PLoS ONE* 8(5): e63267. doi:10.1371/journal.pone.0063267
- 2013 (46) *Moyer RP, **Grottoli AG**, Bauer JE. Carbon isotope biogeochemistry of tropical small mountainous river, estuarine, and coastal systems of Puerto Rico. *Biogeochemistry* 112: 589-612. doi: 10.1007/s10533-012-9751-y
- 2012 (45) †Padilla-Gamiño JL, Bidigare R, Barshis, Alamaru A, Hedouin L, Hernandez-Pech X, Kandel F, Soon SL, Roth M, Rodrigues L, **Grottoli AG**, Portocarrero C, Wagenhouser S, Buttler F, Gates RD. Are all eggs created equal? A case study from the Hawaiian reef building coral *Montipora capitata*. *Coral Reefs* 32: 137-152, doi: 10.1007/s00338-012-0957-1
- 2012 (44) *Moyer RP, **Grottoli AG**, Olesik J. A multi-proxy record of terrestrial inputs to the coastal ocean using minor and trace elements (Ba/Ca, Mn/Ca, Y/Ca) and carbon isotopes ($\delta^{13}\text{C}$, $\Delta^{14}\text{C}$) in a nearshore coral from Puerto Rico. *Paleoceanography* PA3205,

doi:10.1029/2011PA002249

- 2011 (43) †Hennige SJ, †McGinley M, **Grottoli AG**, Warner ME. Photoinhibition of Symbiodinium spp. within the reef corals *Montastraea faveolata* and *Porites astreoides*: implications for coral bleaching. *Marine Biology* 158: 2515-2526.
- 2011 (42) †Kilbourne KH, *Moyer RP, Quinn TM, **Grottoli AG**. Testing coral-based tropical cyclone reconstructions: an example from Puerto Rico. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 307 (1-4): 90-97
- 2011 (41) **Grottoli AG**, *Rodrigues LJ. Bleached *Porites compressa* and *Montipora capitata* corals catabolise $\delta^{13}\text{C}$ -enriched lipids. *Coral Reefs* 30(3):687-692.
- 2011 (40) *Moyer RP, **Grottoli AG**. Coral Skeletal Carbon Isotopes ($\delta^{13}\text{C}$ & $\Delta^{14}\text{C}$) Record the Delivery of Terrestrial Carbon to the Coastal Waters of Puerto Rico. *Coral Reefs* 30(3): 791-802
- 2011 (39) *Williams B, **Grottoli AG**. Solution and laser ablation (LA) inductively coupled plasma-mass spectrometry measurements of Br, I, Pb, Mn, Cd, Zn, and B in the organic skeleton of soft coral and black corals. *Geochemistry, Geophysics, and Geosystems* 12, Q03011, doi:10.1029/2010GC003375.
- 2010 (38) *Hughes AD, **Grottoli AG**, Pease TK, Matsui Y, Acquisition and assimilation of carbon in non-bleached and bleached corals. *Marine Ecology Progress Series* 420: 91–101.
- 2010 (37) *Williams B, **Grottoli AG**, Recent shoaling of the nutricline and thermocline in the western tropical Pacific. *Geophysical Research Letters* 37, L22601, doi:10.1029/2010GL044867.
➤ Covered by Nature Research Highlights, Australian Broadcasting Company, AGU, MsNBC, USA Today, World News, Science Daily, Others.
- 2010 (36) *Williams B, **Grottoli AG**, Stable nitrogen and carbon isotopic variability ($\delta^{15}\text{N}$ and $\delta^{13}\text{C}$) in shallow tropical Pacific soft coral and black coral taxa and implications for paleoceanographic reconstructions. *Geochimica et Cosmochimica Acta* 74(18):5280-88.
- 2010 (35) **Grottoli AG**, Adkins JF, Panero W, †Reaman D, Moots K. Growth rates, stable oxygen isotopes ($\delta^{18}\text{O}$), and strontium (Sr/Ca) composition in two species of Pacific sclerosponges (*Acanthocheatetes wellsi* and *Astroclera willeyana*) with $\delta^{18}\text{O}$ calibration and application to paleoceanography. *Journal of Geophysical Research - Oceans* 115: C06008, doi: 10.1029/2009JC005586.
- 2010 (34) *Wu H, **Grottoli AG**. Stable oxygen isotope records of corals and a sclerosponge in the Western Pacific warm pool. *Coral Reefs* 29(2): 413-418.
- 2010 (33) Lesser MP, Ojimi M, Gates R, Stat M, Slattery M, **Grottoli AG**. Photoacclimatization by the Coral *Montastraea cavernosa* in the Mesophotic Zone: Light, Food, and Genetics. *Ecology* 91:990-1003.
- 2010 (32) †LaVigne M, *Matthews KA, **Grottoli AG**, Cobb KM, Anagnostou E, Cabioch G, Sherrell RM. Coral skeleton P/Ca proxy for seawater phosphate: multi-colony calibration with a contemporaneous seawater phosphate record. *Geochimica et Cosmochimica Acta* 74:1282-1293
- 2009 (31) *Adler RE, Polyak L, Ortiz JD, Kaufman DS, Channell JET, Xuan C, **Grottoli AG**, Sellen E, Crawford KA. Sediment record from the western Arctic Ocean with an improved

- Late Quaternary age resolution: HOTRAX core HLY0503-8JPC, Mendeleev Ridge. *Global and Planetary Change*. 16:18-29, doi: 10.1016/j.gloplacha.2009.03.026
- 2009 (30) Fitt WK, Gates R, Hoegh-Guldberg O, Bythell J, Jatkar A, **Grottoli** AG, Gomez M, Fisher P, Franklin D, Lajeunesse T, Pantos O, Iglesias-Prieto R, *Rodrigues LJ, Torregiani JM, van Woesik R, Lesser MP. Response of two species of Indo-Pacific corals, *Porites cylindrica* and *Stylophora pistillata*, to thermal stress: the host does matter in determining the tolerance of corals to bleaching. *Journal of Experimental Marine Biology and Ecology* 373: 102-110.
- 2009 (29) Anthony KRN, Hoogenboom M, Maynard J, **Grottoli** AG, Middlebrook R. Energetics approach to predicting mortality risk from environmental stress: a case study of coral bleaching. *Functional Ecology* 23:539-550. Doi: 10.1111/j.1365-2435.2008.01531.x
- 2008 (28) *Palardy JE, *Rodrigues LJ, **Grottoli** AG. The importance of zooplankton to the daily metabolic carbon requirements of healthy and bleached corals at two depths. *Journal of Experimental Marine Biology and Ecology*. 367:180-188
- 2008 (27) *Matthews KA, **Grottoli** AG, McDonough, *Palardy JE. Upwelling, species, and depth effects on coral skeletal cadmium-to-calcium ratios (Cd/Ca). *Geochimica et Cosmochimica Acta*. 72: 4537-4550.
- 2008 (26) *Rodrigues LJ, **Grottoli** AG, Lesser MP. Long-term changes in the chlorophyll fluorescence of bleached and recovering corals from Hawaii. *Journal of Experimental Biology*. 358: 136-143
- 2008 (25) *Rodrigues LJ, **Grottoli** AG, Pease T. Lipid class composition of bleached and recovering corals from Hawaii. *Journal of Experimental Marine Biology and Ecology* 358: 136-143
- 2008 (24) †LaVigne M, Field MP, Anagnostou E, **Grottoli** AG, Wellington GM, Sherrell RM Skeletal P/Ca tracks upwelling in Gulf of Panamá coral: Evidence for a new seawater phosphate proxy. *Geophysical Research Letters* 35:L05604, doi:10.1029/2007GL031926
 ➤ Editor's Choice in Science (2008, 319:1590-1591) and AGU Choice Highlights
- 2007 (23) †Narayanan V, Anirudhan S, **Grottoli** AG. Oxygen and carbon isotope analysis of the Miocene limestone of Kerala and its implications to paleoclimate and its depositional setting. *Current Science* 93:1155-1159
- 2007 (22) *Rodrigues LJ, **Grottoli** AG. Energy reserves and metabolism as indicators of coral recovery from bleaching. *Limnology and Oceanography* 52: 1874-1882.
- 2007 (21) **Grottoli** AG, Eakin M. A review of coral $\delta^{18}\text{O}$ and $\Delta^{14}\text{C}$ proxy records. *Earth –Science Reviews* 81:67-91
- 2006 (20) *Matthews KA, McDonough W, **Grottoli** AG. Measurement of cadmium in coral skeleton using ID-ICP-MS. *Geochemistry, Geophysics, and Geosystems*, Vol 7, Q11021, doi:10.1029/2006GC001352
- 2006 (19) Eakin CM, **Grottoli** AG. Coral Reef Records of Past Climate Change. In: *Coral Reefs and Climate Change: Science and Management* [eds. Phinney, J., Skirving, W., Kleypas, J., Hoegh-Guldberg, O., Strong, A.E.], AGU publishers, Coastal and Estuarine Studies 61:33-54.
- 2006 (18) **Grottoli** AG, *Rodrigues LJ, *Palardy JE. Heterotrophic plasticity and resilience in bleached corals. *Nature* 440: 1186-1189 doi:10.1038/nature04565

- Covered by NPR (Science Fridays), Quirks and Quarks radio show (CBC Radio Canada), Discovery Channel News, Washington Post, Scientific American, OSU Today, Columbus Dispatch, and others
- 2006 (17) **Grottoli** AG. Monthly resolved stable oxygen isotope record in a Palauan sclerosponge *Acanthocheatetes wellsi* for the period of 1977-2001. *Proceedings of the 10th International Coral Reef Symposium*, pp. 572-579.
- 2006 (16) *Rodrigues L, **Grottoli** AG. Lipids and chlorophyll in bleached and recovering *Montipora capitata* from Hawaii: An experimental approach. *Proceedings of the 10th International Coral Reef Symposium*, pp. 696-701.
- 2006 (15) *Rodrigues LJ, **Grottoli** AG. Calcification rate and the stable carbon, oxygen, and nitrogen isotopes in the skeleton, host tissue, and zooxanthellae of bleached and recovering Hawaiian corals. *Geochimica et Cosmochimica Acta* 70:2781- 2789
- 2006 (14) *Palardy JE, **Grottoli** AG, *Matthews KA. Effect of naturally changing zooplankton concentrations on feeding rates of two coral species in the Eastern Pacific. *Journal of Experimental Marine Biology and Ecology*, 331(1):99-107
- 2005 (13) **Grottoli** AG, *Rodrigues LJ, *Matthews KA, *Palardy JE, Gibb O. Pre-treatment Effects on Coral Skeletal $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$. *Chemical Geology* 221:225-242
- 2005 (12) *Palardy JE, **Grottoli** AG, *Matthews K. Effects of upwelling, depth, morphology and polyp size on feeding in three species of Panamanian corals. *Marine Ecology Progress Series* 300:79-89
- 2004 (11) **Grottoli** AG, *Rodrigues LJ, *Juarez C. Lipids and stable carbon isotopes in two species of Hawaiian corals, *Porites compressa* and *Montipora verrucosa*, following a bleaching event. *Marine Biology* 145: 621-631
- 2004 (10) †Hönisch B, Hemming NG, **Grottoli** AG, Amat A, Hanson GN, Bijma J. Assessing scleractinian corals as recorders for paleo-pH: Empirical calibration and vital effects. *Geochimica et Cosmochimica Acta* 68:3675-3685
- 2003 (9) **Grottoli** AG, Gille ST, Druffel ERM, Dunbar RB. Decadal timescale shift in a central equatorial Pacific coral radiocarbon record. *Radiocarbon* 45:91-99
- 2002 (8) **Grottoli** AG. Effect of light and brine shrimp levels on the skeletal $\delta^{13}\text{C}$ values of the Hawaiian coral *Porites compressa*: a tank experiment. *Geochimica et Cosmochimica Acta* 66: 1955-1967
- 2001 (7) **Grottoli** AG. Past Climate From Corals. In: *Encyclopedia of Ocean Sciences* [Eds. J Steele, S Thorpe, K Turekian], Academic Press, London pp. 338-347
- 2000 (6) **Grottoli** AG. Stable carbon isotopes ($\delta^{13}\text{C}$) in coral skeletons. *Oceanography* 13:93-97
- 1999 (5) **Grottoli** AG. Variability in stable isotopes and maximum linear skeletal extension in reef corals in Kaneohe Bay, Hawaii. *Marine Biology* 135:437-449
- 1999 (4) **Grottoli** AG, Wellington GM. Effects of light and zooplankton on skeletal $\delta^{13}\text{C}$ values in the Eastern Pacific corals *Pavona clavus* and *P. gigantea*. *Coral Reefs* 18:29-41
- Best Paper Award: International Society for Reef Studies in 2000
- 1997 (3) **Grottoli**-Everett AG, Wellington GM. Fish predation on the scleractinian coral *Madracis mirabilis* controls its depth distribution in the Florida Keys. *Marine Ecology Progress Series*

- 1995 (2) **Grottoli**-Everett AG. Bleaching and lipids in the Pacific coral *Montipora verrucosa*. In *Ultraviolet Radiation & Coral Reefs*. [eds: Gulko D, Jokiel PL], Sea Grant Publication UNIH-SEAGRANT-CR-95-03, Hawaii Institute of Marine Biology Technical Report #41:107-113
- 1995 (1) **Grottoli**-Everett AG, Kuffner I. Uneven bleaching within colonies of the Hawaiian coral *Montipora verrucosa*. In *Ultraviolet Radiation & Coral Reefs*. [eds: Gulko D, Jokiel PL], Sea Grant Publication UNIH-SEAGRANT-CR-95-03, Hawaii Institute of Marine Biology Technical Report #41:115-120

DISSERTATION

Grottoli-Everett (1998) Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction. PhD Dissertation. University of Houston p.225

NON PEER-REVIEWED PUBLICATIONS (*=student advisee):

- 2017 (10) **Grottoli** AG, Shum CK, Durand M, Thompson L, Curtis PS, Mark B, Mosley-Thompson E, Cervenec J, Bauer J, Wilson A. Climate Change: March for Science - Columbus, *March for Science - Columbus*, 22 April 2017
<http://marchforscience-columbus.webflow.io/all-stories/climate-change-c>
- 2016 (9) Warner, M.E., Barshis, D.J., Davies, S.W., **Grottoli**, A.G., LaJeunesse, T.C., van Woesik, R. Investigating coral bleaching in a changing climate: Our state of understanding and opportunities to push the field forward. *Report of the NSF U.S. Investigator Workshop on Coral Bleaching*, June 17–18, 2016. Hawaii Prince Hotel, Honolulu, HI, 26 pp.
- 2016 (8) **Grottoli** AG, Warner ME. National Science Foundation US Investigators Coral Bleaching Workshop. *Reef Encounters* 31(2):61-61
- 2016 (7) **Grottoli** AG. Faculty profile: Andréa Grottoli in *School of Earth Sciences News and Notes* newsletter. August edition, pp. 3-4.
- 2015 (6) **Grottoli** AG. As the Earth enters its third mass bleaching event, will corals survive?, *The Conversation*, 20 Nov 2015, <http://theconversation.com/drafts/50740>
➤ 7,693 unique readers
➤ republished by IFLScience, The Huffington Post, Honolulu Civil Beat, Epoch Times
- 2011 (5) **Grottoli** AG. Ocean Explorers Tank Guide. A picture book, reference guide, and poster to accompany the live saltwater coral tank at the Batelle Discovery Center.
- 2008 (4) *Williams B, **Grottoli** AG. Attempts to culture and monitor growth rates in deep-water antipatharians and gorgonians. In: *Characterization of Northern Gulf of Mexico Deepwater Hard Bottom Communities with Emphasis on Lophelia Coral - Lophelia Reef Megafaunal Community Structure, Biotopes, Genetics, Microbial Ecology, and Geology*. [Eds KJ Sulak, MT Randall, KE Luke, AD Norem, JM Miller]. USGS Open-File Report 2008-1148; OCS Study MMS 2008-015, 15 April 2008 available at <http://cars.er.usgs.gov/coastaleco/>
- 2004 (3) **Grottoli** AG, *Rodrigues LJ, *Juarez C. Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition. In: *The effects of combined sea temperature, light, and carbon dioxide on coral bleaching, settlement and*

growth [Ed. JC Hendee]. NOAA Research Special Report (February, 2004), Silver Spring, MD, p. 661-64.

- 2004 (2) **Grottoli AG**. ICRS Workshop Participants (2004). 10th ICRS Pre-Symposium Workshop on Coral Reefs and Global Change. *Reef Encounter* 32: 63-64.
- 2003 (1) Swart, P.K., **Grottoli, A**. Proxy indicators of climate in coral skeletons: a perspective. *Coral Reefs* 22(4): 313-315.

MANSUCRIPTS IN REVIEW OR PREP (* = my student advisees, † = other students):

- †Yuan XH, Cai WJ, Meile C, Hopkinson B, Ding Q, Chen B, *Schoepf V, **Grottoli AG**, Warner ME, Liu S, Huang H (in review) Vertical profiles of calcium and pH in the coral coelenteron: implications for ocean acidification. *PLoS One*.
- *Bellamy AR, Bauer JE, **Grottoli AG** (in review) Temporal Variability in Autochthonous and Allochthonous Nutritional Sources to Macroinvertebrates in a Temperate Stream. *Marine and Freshwater Research*
- *Levas S, **Grottoli AG**, Warner M, *Schoepf V, †Aschaffenburg M, *Baumann J, Matsui Y (in review) Long-term recovery of Caribbean corals from bleaching. *Journal of Experimental Marine Biology and Ecology*
- *Kelsey SA, Grottoli AG, Bauer JE, Matsui Y, *Huey-Sanders TM (in prep) Impacts of agriculture and tillage practices on headwater stream fluxes of organic and inorganic carbon in temperate watersheds. *Aquatic Sciences*
- *Bellamy AR, Bauer JE, **Grottoli AG** (in prep) Autochthonous, Allochthonous, and Aged Carbon and Organic Matter Contributions to Macroinvertebrate Nutrition in a Temperate Headwater Stream Network. *Freshwater Biology*

FUNDED GRANTS AND FELLOWSHIPS

- 2016-2018 **Robert Hoover Foundation**, Educating and inspiring the next generation of coral conservation scientists. AG Grottoli (sole PI) \$74,991
- 2014-2018 **National Science Foundation** – Biological Oceanography, Phenotype and genotype of coral adaptation and acclimatization to global change. AG Grottoli (lead PI), \$348,133.
- 2014-2015 **National Science Foundation** – RAPID collaborative proposal: Will corals recover from bleaching under ocean acidification conditions? Grottoli AG (lead PI), Toonen RJ \$186,300 (amount to Grottoli \$158,420).
- 2010-2014 **National Science Foundation** – Ocean Acidification Category 1 - Interactive Effects of Temperature, Nutrients, and Ocean Acidification on Coral Holobiont Physiology and Calcification. Grottoli AG (lead PI), Cai W-J, Warner M \$1,077,588 (amount to Grottoli \$367,800).
- 2012-2013 **PADI Foundation**, Protection for corals from global warming? Grottoli AG, \$8,440
- 2009-2012 **National Science Foundation** – Biological Oceanography, Collaborative Research: Physiology and Biogeochemistry of Repeatedly Bleached and Recovering Caribbean Corals. AG Grottoli (lead PI) and M Warner \$764,935 (amount to Grottoli \$388,374).
- 2009 **National Science Foundation** – EAR Instrumentation and Facilities, Acquisition of a liquid water isotope analyzer for hydrological, glaciological and geochemical research. Lead PI: AE Carey, Co-PIs: AG Grottoli, IM Howat, WB Lyons, BG Mark \$57,700.
- 2008-2010 **Ohio State University** Carbon, Water, and Climate Seed Grant Program, Natural Variability and Sources of Dissolved and Particulate Carbon in Streams of Various

- Land-Use Types Within the Coshocton, OH Watershed. AG Grottoli (sole PI) \$52,973
- 2007-2009 **Mellon Foundation**, Natural variability and history of the transfer of terrestrial carbon to the coastal ocean in Puerto Rico. AG Grottoli (sole PI) \$75,000.
- 2005-2009 **National Science Foundation** Division of Biological Oceanography, Collaborative research: Acquisition, allocation, and utilization of carbon in bleached and recovering corals. (OCE#0542415) AG Grottoli (lead PI) & TK Pease \$667,660 (amount to Grottoli \$329,780).
- 2004-2007 **National Science Foundation** Division of Chemical Oceanography, Stable Isotopes and strontium in western Pacific sclerosponges: calibration and applications to paleoceanography (OCE#0426022) AG Grottoli (sole PI) \$195,249.
- 2004-2006 **Petroleum Research Foundation**, Cadmium and barium in corals: a field study. AG Grottoli (sole PI) \$35,000.
- 2004-2006 **Mellon Foundation**, What is the Effect of Land Use Change on the Carbon Cycle in Puerto Rico? AG Grottoli (sole PI) \$75,000.
- 2004 **Woodrow Wilson National Fellowship**, Career Enhancement Fellowship for Junior Faculty. AG Grottoli \$31,500 and one year of teaching relief.
- 2004 **Trustees Council of Penn Women** Summer Faculty Research Fellowship, Effects of Terrestrially Derived Sediments on Corals in the Guanica Preserve, Puerto Rico over the past century. AG Grottoli (sole PI) \$5000.
- 2004 **University of Pennsylvania Research Foundation**, Late Holocene climate inferred from fossil corals of the Gulf of Aqaba (Red Sea). AG Grottoli (sole PI) \$25,000.
- 2003-2004 **American Society of Mass Spectrometry** Research Award, Developing new geochemical tools for paleoclimate reconstruction: *In situ* calibration of stable isotopes in western tropical Pacific sclerosponges. AG Grottoli (sole PI) \$25,000.
- 2002-2003 **University of Pennsylvania Research Foundation**, Upwelling records in corals: a multi-proxy approach. AG Grottoli (sole PI) \$25,000.
- 2001-2002 **University of Pennsylvania Research Foundation**, Sclerosponge and paleoclimate reconstruction. AG Grottoli (sole PI) \$28,000.
- 1999-2001 **National Ocean and Atmospheric Association** Global Programs, Identification and modeling of seasonal to decadal timescale variations in the zonal currents of the central equatorial Pacific. ERM Druffel (lead PI), ST Gille (co-PI), AG Grottoli (co-PI) \$179,675.
- 1999-2000 **Dreyfus Postdoctoral Fellowship** in Environmental Chemistry, AG Grottoli \$80,000.
- 1999-2000 **PADI Foundation**, Coral bleaching. AG Grottoli (sole PI) \$8,858.
- 1996-1998 **Environmental Protection Agency** Graduate Students to Achieve Results (STAR) Fellowship, Paleoclimate Reconstruction via Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Reef Coral Skeletons. AG Grottoli \$75,000.

PROPOSALS PENDING

- 2018-2021 National Science Foundation - Biological Oceanography, Coral Bleaching Research Coordination Network. Grottoli AG (sole PI) \$499,542
- 2018-2021 National Science Foundation – Major Research Instrumentation, Acquisition of a Laser Ablation Multicollector Inductively Coupled Plasma Mass Spectrometer for Geosciences Research and Education at Ohio State (co-PI) \$792,341
- 2018-2020 National Science Foundation – Biological Oceanography, Coral microbiome community plasticity and holobiont adaptation and acclimatization to chronic climate change stress. Grottoli AG (lead-PI), Wilkins M, \$239,328

2018-2019 HW Hoover Foundation. Educating and inspiring the next generation of coral conservation scientists (part II). Grottoli AG (sole PI) \$84,909

TEACHING EXPERIENCE:

(UG = undergraduate students, G = Graduate students, E = typical enrollment numbers)

The Ohio State University (2005 – present):

Advanced Oceanography (UG, G, E25) Intro to Earth System Science (UG, E150)
Principles of Oceanography (UG, E50) Stable Isotope Biogeochemistry (UG, G, E15)
Carbonate Geology (UG, G, E15) Carbonate Geology Field Course (UG, G, E15)
Seminar Limnol. & Oceanogr (G, E8) Pauley Summer Research Program (G, E15)
School of Earth Sciences Colloquium Independent Study Mentor (UG, G)
Global and Environmental Change Division Seminar

University of Pennsylvania (2001 – 2004):

Carbon Isotope Geochemistry (G, E8) Recent Climate Change (G, E4)
Introductory Oceanography (UG, E200) Freshman Seminar in Oceanography (UG, E25)
Independent Study Mentor (UG, G)

Adjunct Faculty (1998):

Evolution, California State U. - Los Angeles (UG, E40)
Nutrition, Concordia University, Irvine, CA (UG, E20)

Teaching Assistant at the University of Houston (1993-1996):

Ecology (teach/coordinate) Invertebrate Zoology (UG, E10) Genetics (UG, E20/section)

Live Broadcast Teaching:

1996 JASON PROJECT VII Education program. 40 live broadcasts from Aquarius Habitat (NURC/NOAA), FL (see <http://www.jason.org>)

OTHER PROFESSIONAL SYNERGISTIC ACTIVITIES AND RELATED EXPERIENCE:

Workshops:

- 2016 US Investigators Coral Bleaching Workshop. Honolulu, HI (17-18 June)
- 2014 Big10 Academic Alliance - Academic Leadership Program: Workshop on Money, Management, and Strategies. Champaign, IL (10-12 April).
- 2014 Big10 Academic Alliance - Academic Leadership Program: Workshop on Internal and External Relationships in the University, Purdue University, West Lafayette, IN (6-8 Feb)
- 2013 Big10 Academic Alliance - Academic Leadership Program: Workshop on Education, Community Engagement, and Diversity, Michigan State U., East Lansing, MI (3-5 Oct)
- 2013 Ocean Acidification in the Caribbean workshop. Mote Marine Lab, Sarasota, FL
- 2010 Organic Sustainability Grant Planning Meeting. Coshocton, OH
- 2006 Society of Sedimentary Geology (SEPM), course 19: Quaternary Reefs and Platforms: bridging the gap between ancient and the modern. – invited speaker and panelist, American Association of Petroleum Geologists Conference, Houston, TX (April)
- 2004 International Coral Reef pre-Symposium Workshop: Global Change and Coral Reefs University of Tokyo, Japan
- 2004 Woodrow Wilson Career Enhancement Fellowship Fall Retreat. Princeton, NJ
- 2003 Coral Reefs, Climate, and Coral Bleaching Workshop (NOAA, DOI, EPA) (June), Turtle Bay, Hawaii
- 2003 CREWS: Caribbean Marine Research Center/ Lea Stocking Island (CMRC/LSI)

- Workshop on Combined factors on coral bleaching think-tank (January) Lea Stocking Island, Bahamas
- 2001 National Association of Geoscience Teachers Workshop for Early Career Faculty in Geosciences, Teaching, Research, and Managing, College of William and Mary
- 2001 Finnigan MAT Training Course, University of Ottawa, October
- 1994 Measurements of Ultraviolet Radiation in Tropical Coastal Ecosystems, University of Hawaii, Honolulu, HI, August 3-5
- 1994 Pauley Summer Program on Ultraviolet Radiation and Coral Reefs, Hawaii Institute of Marine Biology, HI, June-August

Outreach and Service (see also Publicity and Media Outreach below for more):

- 2017 Expert discussion leader at the OSU SENR and Office of Energy and Environment's Environmental Film Series screening of the film "Chasing Coral", 30 Oct, Columbus, OH
- 2017 Expert discussion leader at First Unitarian Universalist Church screening of the film "Chasing Coral", 24 Sept, Columbus, OH
- 2017 OSU-Graduate Faculty Representative – PhD final oral examination for Aimee Yoon, Sociology, June
- 2017 Judge for the 2017 Denmen Undergraduate Research Forum, The Ohio State University
- 2016 Interviewed by Olentangy Liberty High School student Amadi Ejouadi, December
- 2014 - 2016 Louis Stokes Alliances for Minority Participation (LSAMP) Mentor to Zuri Brooks - Program at OSU to increase underrepresented students in STEM fields
- 2014 - 2015 Mentor to Postdoc Dr. Jeremy Williams through the Committee on Institutional Cooperation - Professorial Advancement Initiative (CIC-PAI)
- 2014 - 2017 International Society for Reef Studies Council Member and Awards Committee Chair
- 2015 Host and organized SES Climate, Water, and the Environment Mini-Symposium (Oct)
- 2015 OSU-Graduate Faculty Representative – PhD Final Oral Examination for Hsiao-chi Chang, EEOB, May
- 2015 Judge for the 2015 Natural and Mathematical Sciences Undergraduate Research Forum, Ohio State University
- 2015 Hosted the Hawaii Institute of Marine Biology Field trip for OSU Alumni in Hawaii
- 2014 Host and organized SES Climate, Water, and the Environment Mini-Film Festival (Oct)
- 2014 Host biology Scholars Program Lab tour and Research experience talk, OSU, Oct
- 2014 OSU – Welcome Commencement Speaker, August
- 2013 OSU-Graduate Faculty Representative – PhD Final Oral Examination of Forrest Raffel, Integrated Biomedical Sciences, Dec
- 2012 Invited speaker at OSU-ASC Renaissance Rediscovery Alumni Program
- 2012 4Coral Research Group: Open House at the Reef Systems Coral Farm
- 2012 Invited speaker at Friendship Village of Columbus senior home for "Great Decisions" discussion on the state of the oceans, March
- 2012 Invited speaker at SCUBAFEST Ohio – Coral conservation and diving
- 2012 OSU-Graduate Faculty Representative – PhD Final Oral Examination of Ryan Harrison in Dept of Education, February
- 2010 - 2014 Young Ocean Explorers Program Director -Batelle Discovery Center
- 2011 Ocean Explorers Tank teacher training session at the Batelle Discovery Center
- 2011 Panelist for the Undergraduate Research Office's Faculty Perspectives on Undergrad. Research panel
- 2011 4Coral Research Group: Open House at the Reef Systems Coral Farm

- 2010 Biology Scholars Program Lab tour and undergrad research experience presentation, Jan
- 2010 Arts and Sciences Parental Leave Working Group member (May – July), OSU
- 2010 Get a Passport Campaign feature, Office of International Affairs, OSU
- 2009 - 2010 School of Earth Sciences Webpage coordinator, The Ohio State University
- 2010 Judge for the 2010 Denman Undergraduate Research Forum, The Ohio State University
- 2009 OSU-Graduate Faculty Representative – PhD Final Oral Examination in History, Sept
- 2009 Judge for the 2009 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2008 OSU-Graduate Faculty Representative – PhD Final Oral Examination in Education, Sept
- 2008 Hosted a Summer Research Opportunity Program student Frances Lugo from Puerto Rico
- 2008 Judge for the 2008 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2008 Science Olympiad Oceanography Coach, Grandview Middle School
- 2007 Hawaii Institute of Marine Biology Pauley Summer Research Program, invited instructor
- 2007 Hosted a Summer Research Opportunity Program student Frances Lugo from Puerto Rico
- 2007 Judge for the 2007 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2007 Science Olympiad Oceanography Coach, Grandview Middle School
- 2007 Student Shadow for a day, 6th Grader Tyler Cleveland
- 2006 Dinner for 12 Strangers invited faculty guest, Ohio State University dinner with undergrads, alumni, and faculty
- 2006 Hosted the Hawaii Institute of Marine Biology Field trip for OSU Alumni in Hawaii
- 2006 Stone Lab Oceanography Field trip for undergraduate non-majors
- 2006 Judge for the 2006 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2005 Dominion Middle School, Gifted and Talented program. Presentation and discussion on coral reef conservation with 5th graders.
- 2005 Mainland Regional High School Learning about Science. All day interactive visit to three labs in geoscience and bioengineering.
- 2005 Women in Science lecture and discussion for grad/undergrad students
- 2005 New Jersey Aquarium field-trip for undergraduates
- 2003 Gender Equity Panel: panel discussion with undergraduates on women in academia
- 2004 Jersey Shore field-trip for undergraduates
- 2001-2005 Fisher-Hassenfeld House Faculty Fellow in residence full-time, 600 undergrads
- 2001-2005 Research and Careers in Marine Science yearly presentation and discussion with undergraduates
- 2003 Graduate School of Education: Global Climate and ENSO seminar.
- 2003 Healthy Food Choices in Dining: F-H House Healthy Living discussion group leader
- 2004 Penn Reading Project Discussion Group Leader (The Tipping Point, by Gladwell)
- 2003 Penn Reading Project Discussion Group Leader (The Quiet American, by Greene)
- 2002 Penn Reading Project Discussion Group Leader (When Things Fall Apart, by Achebe)
- 2001 Penn Reading Project Discussion Group Leader (Candide, by Voltaire)
- 2002 Women in Leadership Series: panel discussion on women in science with undergrads

Research Cruises:

- 2011 Maui, *R/V Ka`imikai-o-Kanaloa*, Feb 24 – Mar 4
- 2005 Gulf of Mexico, *R/V Seward Johnson*, Sept 15-20
- 2002 Gulfs of Panama and Chiriqui, *R/V Urraca*, July 19-26

- 2000 Eastern Atlantic, *R/V Knorr*, June 9- July 1
- 1999 North Central Pacific, *R/V Melville*, May 24-June 15

Panelist:

- 2016 National Science Foundation Biological Oceanography panel
- 2015 National Science Foundation Postdoctoral Research Fellow panel
- 2012 National Science Foundation Ocean Acidification panel
- 2012 Comprehensive Equity at Ohio State (CEOS) and the Women's Place: Budgeting and Grant Writing panelist
- 2011 Undergraduate Research Office's Faculty Perspectives on Undergrad. Research panel
- 2007 National Science Foundation – Site review panel of the National Ocean Science Accelerator Mass Spectrometry (NOSAMS) facility at Woods Hole Oceanographic Institution, Oct
- 2007 Women in the Science Technology Engineering and Math (STEM) Fields panel: discussion on women in science with undergrads at OSU
- 2005 National Science Foundation – Chemical Oceanography Review Panel
- 2004 Association of American Geographers Annual Meeting: Session 5505 Global Change and Geography of Individual Responsibility Panel, Philadelphia, PA
- 2003 Gender Equity Panel: panel discussion with undergraduates on women in academia
- 2002 Women in Leadership Series: panel discussion on women in science with undergrads

Scientific Meeting Session Chair/co-Chair:

- 2016 Executive Committee member US Investigators Coral Bleaching Workshop (17-18 June) Honolulu, HI
- 2016 Session co-chair and proceedings co-editor, 13th International Coral Reef Symposium: Session 36, Assessing and addressing the effects of multiple stressors on coral reefs towards developing effective management and policy responses.
- 2012 Session co-Chair and proceedings co-editor, 12th International Coral Reef Symposium: Coral Physiology session
- 2011 Session Chair, American Society of Limnology and Oceanography Meeting, Coral Session S36
- 2008 Session Chair, Ocean Sciences Meeting (AGU/ASLO), Coral Reefs Session 144
- 2006 Session Chair, Benthic Ecology Meeting, Reef Ecology Session
- 2004 Session co-chair and proceedings co-editor, 10th International Coral Reefs Symposium: Mini-Symposium on Corals as Recorders of Past Climate

Visiting Researcher:

- 1994 - 1996, 2006-2007, 2014-present, Hawaii Institute of Marine Biology Kaneohe, Hawaii
- 2013 Musée Océanographique, Centre Scientifique de Monaco, Monaco
- 2009 - 2011 ICMyl-UNAM Field Station, Puerto Morelos, Mexico
- 2008 El Verde Field Station, University of Puerto Rico, Puerto Rico
- 2006 Palau Coral Reef Research Foundation, Koror, Palau
- 2001 - 2003 Palau International Coral Reef Center, Koror, Palau
- 2001 - 2006 Department of Fish and Wildlife, Saipan, CNMI
- 2004 Dept Natural and Env. Res., Guanica Dry Forest and Marine Preserve, Puerto Rico
- 2002 Smithsonian Tropical Research Institute, Panama City, Panama
- 2001 University of Guam, Guam
- 2001 Lawrence Livermore National Laboratory, Livermore, CA
- 1997 Rosenstiel School of Marine and Atmospheric Science. U. of Miami, Miami, FL

Research Assistant:

1995 University of Houston / Rice University, Houston, TX

Lab technician:

1991 - 1992 McGill University undergraduate research technician, Montreal, Quebec, Canada

INVITED SPEAKER:

- 2018 **University of Toronto – Mississauga** Center for Global Change Science Distinguished Lecture Series (Invited talk) *Coral Reefs and Climate Change: How will they survive?* (Jan)
Advance Faculty Research Lecture Series – Ohio State University *Journey of a Marine Scientist* (Feb)
Ohio Wesleyan University, Westerville OH “*Coral Reefs and Climate Change: Journey of a Marine Scientist*” (Mar)
- 2017 **Atlanta Reef Club**, Atlanta GA (July) *Coral Reefs and Climate Change: How will they survive?*
University of Akron, Department of Biology. *Corals and Climate Change* (March)
Ohio State University, Dept Ecology, Evolution and Organismal Biology – Intro Biology class special lecture. *Corals and Climate Change* (Feb)
- 2016 **Bennington College**, Department of Science and Math. *Corals and Climate Change* (Oct)
Coral Reef Task Force Webinar. *Corals Coping with Climate Change* (April)
13th International Coral Reef Symposium, Honolulu, HI. Invited Oral Presentation. *Combined responses of the coral microbiome and coral physiology to elevated temperature and pCO₂*. (July)
Sea Nags Scuba club, Columbus, OH. *Corals and Climate Change* (September)
Ohio State University, Dept Ecology, Evolution and Organismal Biology – Intro Biology class special lecture. *Corals and Climate Change* (Feb)
- 2015 **TEDx OSU** speaker. *Our Coral Connection* (14 Feb 2015) <http://tedx.osu.edu/> and <https://www.youtube.com/watch?v=l0CwOQQiVWc>
- 2014 **Ohio State University**, Welcome Commencement Speaker (25 August)
<https://www.facebook.com/osu/photos/a.10153110792798858.1073741863.6711658857/10153110798668858/?type=3&theater>
- 2013 **Centre Scientifique de Monaco**. Monaco, Monaco. *Global Warming and Ocean Acidification: How will corals manage?*
Mote Marine Lab, Ocean Acidification Workshop. Sarasota, FL. *Coral Resilience to conditions in 2100?*
- 2012 **Bowling Green State University**, SETGO program, Bowling Green, OH. *Global Warming and Ocean Acidification: How will corals manage?*
Otterbein College, Department of Biology and Earth Science, Westerville, OH. *Global Warming and Ocean Acidification: How will corals manage?*
The Ohio State University, ASC Renaissance Rediscovery Alumni Program, Columbus, OH. *Global Warming and Ocean Acidification: How will corals manage?*
The Ohio State University, School of Earth Science, Columbus, OH. *Global Warming and Ocean Acidification: How will corals manage?*
University of Georgia, Department of Marine Science, Athens, GA. *Global Warming and Ocean Acidification: How will corals manage?*
Northeastern University, School of Marine Science, Boston, MA. *Global Warming and Ocean Acidification: How will corals manage?*
Scubafest, Columbus, OH. *Coral Reef Discovery and Conservation*
- 2011 **University of Michigan**, Smith Lecturer, Department of Geological Sciences, Ann Arbor, MI

- (June). *Paleoceanography of the Western Tropical Pacific Warm Pool*
Université de Québec a Montréal, GEOTOP, Montreal, PQ, Canada. *Paleoceanography of the Western Tropical Pacific Warm Pool*
- University of Delaware**, College of Earth, Ocean, and the Environment, Lewes, DE. *Coral bleaching: Resilience and Alternative Strategies: A better understanding of coral bleaching using stable carbon isotopes ($\delta^{13}C$)*
- Ohio State University**, School of Environment and Natural Resources, Columbus, OH. *Coral bleaching: Resilience and Alternative Strategies*
- 2010 **ICMyL-UNAM Field Station**, Faculty of Marine Sciences, Puerto Morelos, QR Mexico. *Carbon and Coral bleaching: Resilience and Alternative Strategies How stable isotopes shed light on physiological processes*
- Ohio University**, Department of Geological Sciences, Athens, OH. *Coral bleaching: Resilience and Alternative Strategies A better understanding of coral bleaching using stable carbon isotopes ($\delta^{13}C$)*
- Ohio State University**, School of Earth Sciences mini-symposium, Columbus, OH. *The State of Coral Reefs.*
- 2008 **McGill University**, Department of Earth and Planetary Sciences, Montreal, PQ, Canada. *Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- USGS and University of South Florida** joint seminar, St. Petersburg, FL. *Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- 2007 **Harvard University**, Earth History and Paleobiology Series, Boston, MA. *Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- College of Wooster**, Department of Geology, Wooster, OH. *Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- University of Hawaii**, Hawaii Institute of Marine Biology, Kaneohe Bay, HI. *Corals and sclerosponges as geochemical recorders of past climate change*
- 2006 **SEMP** Quaternary Reefs and Platforms: invited speaker and panelist, American Association of Petroleum Geologists Conference, Houston, TX. *Corals and sclerosponges as geochemical recorders of past climate change*
- Ohio State University**, Environmental Science Graduate Program, Columbus, OH. *Paleoceanography Using Stable Carbon Isotopes ($\delta^{13}C$) in Corals and Sclerosponges*
- Bowling Green State University**, Department of Biological Sciences, Bowling Green, OH. *Coral bleaching: Resilience and Alternative Strategies*
- Ohio State University**, Dept Ecology, Evolution, and Organismal Biology (EEOB), Columbus, OH. *Coral bleaching: Resilience and Alternative Strategies*
- Ohio State University**, School of Earth Sciences Brown Bag, Columbus, OH. *Coral bleaching Alternative Strategies, Resilience, and Isotopic Signatures*
- University of Hawaii**, School of Ocean and Earth Science (SOEST), Honolulu, HI. *Coral bleaching: Resilience and Alternative Strategies*
- University of Hawaii**, Hawaii Institute of Marine Biology, Kaneohe Bay, HI. *Corals and sclerosponges as geochemical recorders of past climate change*
- University of Cincinnati**, Department of Biology, Cincinnati, OH. *Heterotrophic Plasticity, Energy Reserves, and Resilience in Bleached Corals*
- 2005 **State University of New York - Albany**, Department of Earth and Atmospheric Sciences,

- Albany, NY. *Paleoceanography Using Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals and Sclerosponges*
- 2004 **Pennsylvania State University**, Department of Geosciences, University Park, PA. *Paleoceanography Using Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals and Sclerosponges*
- Washington Geological Society**, Washington, DC. *Paleoceanography Using Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals and Sclerosponges*
- Goldschmidt Plenary Speaker**, Copenhagen, Denmark. *Stable Carbon Isotopes ($\delta^{13}\text{C}$) in Corals: An Experimental Approach and Applications for Paleoceanography*
- Ohio State University**, Department of Geological Sciences, Columbus, OH. *Paleoclimatology and Paleoceanography Using Carbon Isotopes in Corals and Sclerosponges*
- University of Texas Marine Science Institute** Schweppe Seminar speaker, Port Aransas, TX. *Carbon Isotopes in Corals and Sclerosponges: Applications for Paleoclimate Reconstruction*
- University of Texas Marine Science Institute** Schweppe Seminar Public Evening Lecture, Port Aransas, TX. *The Effect of Human Impacts and Coral Bleaching on Coral Reef Ecosystems: Implications for Coral Reef Conservation*
- Association of American Geographers** Annual Meeting, Session 5505 Global Change and Geography of Individual Responsibility Panel, Philadelphia, PA. *Individual Responsibility and Global Climate Change.*
- 2003 **Rutgers University**, Institute of Marine Sciences, New Brunswick, NJ. *Carbon in corals and sclerosponges*
- University of Maryland**, Department of Geology, College Park, MD. *Carbon in corals and sclerosponges.*
- Columbia University**, Lamont-Doherty Earth Observatory, New York, NY. *Carbon in corals and sclerosponges.*
- Northwestern University**, Department of Geology, Chicago, IL. *Carbon in corals and sclerosponges*
- CREWS workshop**, CMRC/LSI Workshop, Bahamas. *Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition*
- University of Pennsylvania**, Graduate School of Education, Philadelphia, PA. *Global Climate and ENSO.*
- University of Pennsylvania**, Institute for Environmental Studies, Philadelphia, PA. *Coral Reefs: Conservation and Case Studies*
- 2002 **University of Pennsylvania**, Department of Biology, Philadelphia, PA. *Coral Bleaching and Resilience*
- University of Pennsylvania**, Department of Earth & Environmental Science, Philadelphia, PA. *Radiocarbon record in a Fanning Island coral: Inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922-1956.*
- University of Pennsylvania**, Institute for Environmental Studies, Philadelphia, PA. *Coral Reefs: Conservation and Case Studies*
- 2001 **University of Pennsylvania**, Dept. Earth & Environmental Science. Philadelphia, PA. *Coral Bleaching and Resilience.*
- University of Pennsylvania**, Institute for Environmental Studies. *Coral Reefs: Conservation and Case Studies*
- University of Pennsylvania**, Goldberg House. *Coral Reefs: Human Impacts and Conservation*

- Temple University**, Department of Geology, Philadelphia, PA. *Radiocarbon record in a Fanning Island coral: Inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922-1956*
- 2000 **Florida International University**, Department Biological Sciences Seminar, West Miami, FL. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- University of Washington**, Quaternary Research Center Seminar, Seattle, WA. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- University of Pennsylvania**, Department Earth and Environmental Science, Philadelphia, PA. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- American University**, Department of Biology Seminar, Washington, DC. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- 1999 **Columbia University**, Biosphere 2, Tuscon, AZ. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*
- University of California – Irvine**, Department of Ecology & Evolutionary Biology, Irvine, CA. *Coral Reefs: Conservation and Global Change*
- 1998 **University of California – Irvine**, Department of Earth System Science, Irvine, CA. *Coral Reefs: Conservation and Global Change*
- 1996 **Shamene University**, Department of Biology, Honolulu, HI. *Tools for Paleoclimate Reconstruction.*

PUBLISHED ABSTRACTS (* = my student advisees, † = other students):

- 2017 (105) †Jury CP, Newell M, *Dobson KL, *McLachlan RH, Marko P, **Grottoli AG**, Toonen RJ. Local adaptation drives coral resilience under ocean acidification and climate change. ASLO 2017 Aquatic Sciences Meeting. Honolulu, HI. Abstract #30008
- 2017 (104) *Moore, AE, *McLachlan RH, †Jury CP, *Dobson KL, Toonen RJ, **Grottoli AG**. Variability in Hawaiian coral across a natural range of temperature, $p\text{CO}_2$ and flow gradients. 126th Annual Meeting of the Ohio Academy of Sciences, Cincinnati, OH 8 April 2017. Poster No. 042
- 2016 (103) LaVigne M, Cobb KM, DeLong K, Freiburger M, **Grottoli AG**, Hill TM, Miller H, Nurhati I, Richey J, Serrato Marks G, Sherrell RM. Using coral Ba/Ca records to investigate seasonal to decadal scale biogeochemical cycling in the surface and intermediate ocean. American Geophysical Union Meeting, San Francisco, CA, December. Abstract ID: 163912 (Invited Oral)
- 2016 (102) **Grottoli AG**, *Martins PD, Wilkins MJ, Johnston MD, Warner ME, Cai WJ, Melman TF, †Hoadley KD, †Pettay DT, *Schoepf V. Combined responses of the coral microbiome and coral physiology to elevated temperature and $p\text{CO}_2$. 13th International Coral Reef Symposium, Honolulu, HI 19-24 June, Abstract ID:27996, (Invited Oral)
- 2016 (101) *Dobson KL, **Grottoli AG**, †Jury C, †Newell M, Marko P, *Kadri A, *Snyder K, *McLachlan R, Toonen RJ. Recovery of *Montipora capitata* and *Porites compressa* from bleaching under ocean acidification conditions, 13th International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID: 29624, (oral)
- 2016 (100) *McLachlan RH, **Grottoli AG**, †Jury CP, *Dobson K, Toonen RJ. Survey of Hawaiian coral physiology across a natural range of temperature and pH gradients. 13th International

- Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID:29770 (poster).
- 2016 (99) Tanaka Y, **Grottoli** AG, Matsui Y, Suzuki A, Kazuhiko S. Effects of nitrate and phosphate availability on the biomass, stable carbon isotopes, and growth rates of scleractinian corals, 13th International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID:28498 (poster)
- 2016 (98) †Newell ML, †Jury CP, Knapp IS, Toonen RJ, *Dobson KL, *McLachlan R, **Grottoli** AG, Marko PB. *Symbiodinium* diversity in *Porites compressa* following a natural bleaching event, 13th International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID: 29747 (poster)
- 2016 (97) †Jury CP, †Newell ML, *Dobson K, *McLachlan R, Marko P, **Grottoli** AG, Toonen RJ, Local Adaptation drives coral resilience to ocean acidification and climate change, 13th International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID: 29277 (oral)
- 2016 (96) Cai WJ, Ma Y, Hopkinson B, **Grottoli** AG, Warner ME, Ding Q, Hu X, Yuan X, *Schoepf V, Xu H, Han C, Melman TF, †Hoadley KD, †Pettay DT, Matsui Y, *Baumann JH, *Levas S, Ying Y, Wang Y. Coral interior carbonate chemistry measured with pH and carbonate microelectrodes suggests that the chemistry of the calcifying fluid affects resilience to OA, 13th International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID: 28076 (oral)
- 2016 (95) Guerra A, Kozdon, **Grottoli** AG, Sherrell R. A coral record of seawater barium concentration recording variations in continental freshwater input to the Gulf of Panama. Ocean Sciences Meeting, New Orleans, MI
- 2015 (94) Cai WJ, Ma Y, **Grottoli** AG, Warner ME, Hopkinson B, Ding q, Hu X, Yuan X, *Schoepf V, Melman, TF, †Hoadley KD, †Pettay DY, Matsui Y, *Baumann JH, *Levas S, Wang Y. Corals control interior pH and carbonate chemistry as revealed by microelectrode profiles. Ocean Acidification Principal Investigators' Meeting. Woods Hole, MA (poster)
- 2014 (93) *Saup C, **Grottoli** AG, Ferrier-Pages C, Matsui Y. Physiological and isotopic responses of the coral *Stylophora pistillata* to future coastal ocean conditions. Geological Society of America Annual Meeting. Session 209. Vancouver, Canada. (poster)
- 2014 (92) LaVigne M, *Matthews KA, **Grottoli** AG, *Palardy J, Sherrell M. Multi-colony calibrations of coral Ba/Ca with a contemporaneous *in situ* seawater barium record. American Geophysical Union meeting, San Francisco, CA
- 2014 (91) *Williams B, Thibodeau B, Chikaraishi Y, **Grottoli** A. Nitrogen isotopic composition of proteinaceous coral skeletal amino acids records change in source nitrate to the euphotic zone in the western tropical Pacific. American Geophysical Union meeting, San Francisco, CA
- 2014 (90) *Baumann J, **Grottoli** AG, Matsui Y, *Hughes A. Acquisition and allocation of carbon to lipids of bleached and healthy Hawaiian corals. Benthic Ecology Meeting, Jacksonville Florida
- 2013 (89) †Tanaka Y, **Grottoli** AG, Matsui Y, Suzuki A, Sakai K. Estimation of internal and external nitrogen for corals with long-term ¹⁵N-labelling experiment and subsequent model calculations. European Geosciences Union meeting, April. EGU2014-9565
- 2013 (88) **Grottoli** AG, Warner ME, Cai WJ, Bauer JE, *Schoepf V, *Levas SJ, Melman T, †Hoadley KD, †Pettay DT, Hu X, Wang Y, Matsui Y. Interactive effects of elevated *p*CO₂ and temperature on the physiology of four species of Pacific corals. Ocean Acidification Principal Investigators' Meeting. Sept 18-20, 2013, Washington, DC (poster)
- 2013 (87) Cai WJ, Ding Q, Ma Y, Wang Y, **Grottoli** AG, Warner ME, Hopkinson B, Hu X. Microelectrode profile measurements of pH, CO₃²⁻ and Ca²⁺ inside coral polyps. Ocean Acidification Principal Investigators' Meeting. Sept 18-20, 2013, Washington, DC (poster)

- 2012 (86) **Grottoli** AG, *Schoepf V, Warner ME, Cai W-J, Melmann T, *Baumann J, Matsui Y, †Pettay DT, Hoadley K, †Xu H, Wang Y, †Li Z, †Hu X. Interactive effect of elevated pCO₂ and temperature on coral physiology and calcification: a glimmer of hope? The Ocean in a High-CO₂ World 3rd International Symposium, Monterey CA.
- 2012 (85) *Schoepf V, †Hu X, **Grottoli** AG, Cai W-J, Warner ME, Melman T, †Xu H, †Li Q, Wang Y, †Hoadley K, †Pettay DT, *Baumann J, Matsui Y. Coral calcification under elevated pCO₂ and temperature: a comparison of the buoyant weight and alkalinity anomaly methods. The Ocean in a High-CO₂ World 3rd International Symposium, Monterey CA, Poster 182.
- 2012 (84) *Schoepf V, **Grottoli** AG, Warner ME, Cai WJ, Melman T, *Baumann J, Matsui Y, †Pettay D, †Hoadley K, Wang Y, †Xu H, †Li Q, †Hu X. Interactive effects of elevated pCO₂ and temperature on coral calcification and energy reserves. 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (83) *Levas S, **Grottoli** AG, Warner ME, *Schoepf V, *Baumann J, †Aschaffenburg M, Matsui Y, Bauer J. DOC fluxes in healthy and bleached *Montastraea faveolata*, *Porites astreoides*, and *Porites divaricata* corals. 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (82) **Grottoli** AG, Warner ME, *Levas SJ, †Aschaffenburg M, *Schoepf V, †McGinley M, Matsui Y. What combinations of coral species and Symbiodinium are more resilient to repetitive bleaching? 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (81) *Baumann J, **Grottoli** AG, *Levas S, Matsui Y, *Hughes A. Acquisition and Allocation of Carbon to Lipids of Bleached and Non-bleached Hawaiian Corals. 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (80) †Hoadley K, †Pettay DT, Warner ME, **Grottoli** AG, Melman T, *Baumann J, Matsui Y, Cai WJ, Hu X, Wang Y, Xu H, Li O. The impact of elevated CO₂ and temperature on the photosynthetic physiology and symbiosis stability of four Pacific reef-building corals. 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (79) Warner ME, **Grottoli** AG, †Aschaffenburg MD, †McGinley N, *Levas S, *Schoepf V. The impact of repetitive bleaching on the photobiology and balance of *Symbiodinium* distributions in three Caribbean corals. 12th International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2011 (78) **Grottoli** AG, Cai WJ, Warner M, Melman T, *Schoepf V, *Baumann J, Matsui Y, †Pettay DT, †Hoadley K, †Xu H, Wang Y, †Li Q, Hu X. Interactive effect of elevated CO₂ and temperature on coral physiology. American Geophysical Union (AGU) Meeting, San Francisco, CA Abstract number OS33B-1667.
- 2011 (77) Bauer JE, Guo L, Perkey DW, Raymond P, Bianchi TS, **Grottoli** AG, Matsui Y. Divergent Radiocarbon Age Distributions of Carbon Pools in a Major Temperate River: Implications for Sources, Reactivity, and Land-Ocean Exchanges. American Geophysical Union (AGU) Meeting, San Francisco, CA Abstract number B32C-05.
- 2011 (76) *Moyer R, **Grottoli** AG, Bauer JE. Carbon isotope (13C and 14C) biogeochemistry of small mountainous rivers and coastal coral skeletons in Puerto Rico. Geological Society of America Annual Meeting, Minneapolis, Abstract# 194651
- 2011 (75) **Grottoli** AG, Warner ME, *Levas SJ, †Aschaffenberg MD, Schoepf V, †McGinley MP. The effect of repeat bleaching on coral species-algal symbiont type combinations and resilience. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (74) *Levas SJ, *Schoepf V, Warner ME, **Grottoli** AG. Energy reserves and calcification of bleached *Montastraea faveolata*, *Porites astreoides*, and *Porites divaricata*. American

- Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (73) *Schoepf V, *Levas SJ, Warner ME, **Grottoli** AG. The effect of repeat bleaching on energy reserves of three Caribbean coral species. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (72) †McGinley MP, †Aschaffenburg MD, **Grottoli** AG, Levas SJ, Schoepf V, Warner ME. Temporal dynamics of *Symbiodinium* populations in Caribbean corals following a repetitive bleaching experiment. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (71) *Huey TM, **Grottoli** AG, Matsui Y. Land-use impact on the character and age of carbon in small temperate streams. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (70) *Borg D, **Grottoli** AG, Olesik J. Natural Variability of Trace Metals in Two Species of Sclerosponges from Palau and Saipan. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (69) *Baumann J, **Grottoli** AG, *Levas S, *Schoepf V, Warner M. The effects of repeat bleaching on P/R and feeding rates of three species of Caribbean coral. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (68) Bauer JE, *Moyer RP, Raymond PA, **Grottoli** AG. Divergence in global riverine DOC and POC ages: implications for the carbon cycle. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (67) *Levas SJ, **Grottoli** AG, *Hughes AD, Pease TK. Energy reserves, calcification, and carbon allocation of bleached *Porites lobata*. Minorities Striving and Pursuing Higher Degrees of Education in Earth Sciences Phase III, National Sciences Foundation, Washington D.C.
- 2010 (66) **Grottoli** AG, *Hughes AD, Pease TK, Osburn CL. The effect of bleaching on dissolved organic carbon (DOC) production in three species of Hawaiian corals. 2010 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Portland, OR
- 2010 (65) *Levas S, **Grottoli** AG, *Hughes AD, Pease TK. Energy reserves, calcification, and carbon allocation of bleached *Porites lobata*. 2010 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Portland, OR
- 2010 (64) *Matsui Y, **Grottoli** AG, *Huey T. Natural variability and sources of dissolved and particulate carbon in the streams of small watersheds of various land-use types within the North Appalachian Experimental Watershed in Ohio. 2010 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Portland, OR
- 2010 (63) Bauer JB, *Moyer R, **Grottoli** AG. Carbon isotope geochemistry of tropical small mountainous river systems and adjacent coastal waters of Puerto Rico. 2010 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Portland, OR
- 2010 (62) †Gray RE, Polyak L, †Crawford KA, Council EA, Darby DA, **Grottoli** AG. Depth-dependent sedimentation patterns on the Mendeleev Ridge, Central Arctic Ocean. Presentation at the 40th International Arctic Workshop, Winter Park, CO.
- 2009 (61) Kilbourne KA, *Moyer RP, Quinn TM, **Grottoli** AG. Testing coral-based tropical cyclone reconstructions: an example from Puerto Rico, Second International Summit on Hurricanes and Climate Change, Corfu, Greece, Aegean Conference Series, vol. 41, p. 69, abstract 49, May 31-June 5

- 2008 (60) *Williams B, **Grottoli** AG. High-resolution $\delta^{13}\text{C}$, $\delta^{15}\text{N}$, and trace element records from a western tropical Pacific near-surface black coral and a mid-water soft coral. Fall AGU, San Francisco, CA
- 2008 (59) †LaVigne M, Anagnostou E, Cobb K, Field MP, **Grottoli** AG, *Matthews KA, Lazar B, Wellington GM, Sherrell RM. Phosphorus in coral skeleton: Evidence and species-specific global calibrations for a novel seawater phosphate proxy. Fall AGU, San Francisco, CA
- 2008 (58) *Moyer R, **Grottoli** AG. Corals as recorders of land-ocean carbon transport in Puerto Rico using stable carbon isotopes and Ba/Ca. 11th International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (57) *Williams B, **Grottoli** AG. Comparison of stable isotope records from a western Pacific shallow-water soft coral and a black coral. 11th International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (56) *Chrystal A, **Grottoli** AG, *Rodrigues L. Identification of bleaching events in coral skeletal records using high-resolution stable isotope and trace element records. 11th International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (55) *Rodrigues LJ, **Grottoli** AG, Lesser M. Long-term Changes in the Chlorophyll Fluorescence of Bleached and Recovering Corals from Hawaii. 11th International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (54) **Grottoli** AG, *Hughes AD, Pease TK. Acquisition and allocation of carbon in bleached Hawaiian corals. 11th International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (53) *Palardy J, *Rodrigues L, **Grottoli** A. The importance of zooplankton to the total energy budget of healthy and bleached corals at two depths. 11th International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (52) †LaVigne M, Anagnostou E, Cobb K, Field MP, **Grottoli** AG, Linsley B, Sherrell RM, Wellington GM. Coralline P/Ca: Evidence for a new seawater PO_4 proxy. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2008 (51) *Moyer R, **Grottoli** AG. Stable and Radiocarbon Isotopes in Corals and Adjacent Natural Waters: Land-Use Change, Land-Ocean Carbon Flux and Coral Reefs. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2008 (50) *Hughes AD, **Grottoli** AG, Pease TK. Recovery from bleaching: autotrophic and heterotrophic carbon acquisition in two Hawaiian corals during recovery from thermally-induced bleaching. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2008 (49) **Grottoli** AG, *Hughes AD, Pease TK. Acquisition and allocation of carbon in bleached Hawaiian corals. 2008 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2008 (48) †Hurley LEA, *Hughes AD, **Grottoli** AG, Pease TK. Variability in the lipid class and isotopic compositions of the Hawaiian coral *Porites compressa*, and its symbiotic zooxanthellae. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2007 (47) *Matthews KA, **Grottoli** AG, McDonough WF, *Palardy JE. High resolution coral Cd measurements using LA-ICP-MS and ID-ICP-MS: calibration and interpretation. American Geophysical Union Fall 2007 Meeting, San Francisco, CA.
- 2007 (46) *Adler R, Polyak L, Ortiz J, **Grottoli** AG, Kaufmann D. Late Quaternary Paleoceanography of the Mendeleev Ridge, Central Arctic Ocean: Planktonic Foraminiferal

- Composition and Stable Isotopy, Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract PP51A-0183
- 2007 (45) Sherrell RM, †LaVigne M, Anagnostou E, Field MP, **Grottoli** A, Wellington J, Adkins J, Gagnon A. A P/Ca proxy for seawater phosphate in surface and deep-sea corals: application to laser ablation and solution phase HR-ICP-MS. Chemical Oceanography Gordon Conference, Tilton, NH, August 2007
- 2007 (44) **Grottoli** AG. Calcification in sclerosponges: implications for reconstructing CO₂ fluxes in the tropics. American Society of Limnology and Oceanography, Santa Fe, NM, p. 68
- 2007 (43)*Matthews KA, **Grottoli** AG, McDonough WF. Natural variability of coral Cd/Ca from an upwelling region: implications for proxy record interpretation. American Society of Limnology and Oceanography, Santa Fe, NM, p. 116-117
- 2007 (42)*Moyer RP, **Grottoli** AG. Stable-and radiocarbon isotopes in corals and adjacent natural waters: reconstructing land-use change and the land-ocean carbon cycle. American Society of Limnology and Oceanography, Santa Fe, NM, p.126
- 2007 (41)*Williams BD, **Grottoli** AG. Carbon and nitrogen stable isotopes from gorgonian soft corals as recorders of nutrient fluxes in the western equatorial Pacific. American Society of Limnology and Oceanography, Santa Fe, NM, p. 194
- 2007 (40)*Adler R, Polyak L, Kaufman DS, **Grottoli** AG. Sedimentary record of the last two glacial (stadial) cycles on the Mendeleev Ridge, central Arctic Ocean. 37th International Arctic Workshop, Program and Abstracts May 3-5, 2007. The Earth Science Institute, University of Iceland, pp. 272.
- 2007 (39) †Hurley L, *Hughes AD, **Grottoli** AG, Pease TK. Spatial variability of $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ in tissues of the Hawaiian coral *Porites compressa*. Estuarine Research Federation, Providence RI, Nov 2007
- 2007 (38)*Hughes AD, **Grottoli** AG, Pease TK. Thermally induced bleaching alters carbon flow between host, symbiont and skeleton in two Hawaiian corals. Estuarine Research Federation, Providence RI, Nov 2007
- 2006 (37)*Moyer R, **Grottoli** AG. Stable carbon isotopes in coastal Puerto Rico corals and adjacent natural waters: implications for land-ocean connectivity and land-use history. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Honolulu, Abstract # OS25J-14
- 2006 (36) **Grottoli** AG. Calibration and natural variability of skeletal stable carbon isotopes in the Pacific sclerosponge *Acanthocheatetes wellsi*: implications for reconstructing CO₂ uptake in coastal tropical environments. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Honolulu, Abstract #OS35G-14
- 2006 (35) **Grottoli** AG. Corals and sclerosponges as geochemical recorders of past climate change. American Association of Petroleum Geologists and the Society of Sedimentary Geology, April 13-14, Houston, TX.
- 2006 (34) **Grottoli** AG, *Rodrigues LJ, *Palardy JE. Heterotrophic plasticity, energy reserves, and resilience in bleached corals. Benthic Ecology Meetings, Quebec, Canada
- 2006 (33) *Rodrigues LJ, **Grottoli** AG, Pease T. Lipid classes in bleached and recovering *Porites compressa* and *Montipora capitata* corals from Hawaii. Benthic Ecology Meetings, Quebec, Canada
- 2005 (32)*Matthews KA, McDonough WF, **Grottoli** AG. Natural variability of coral Cd/Ca using a novel isotope dilution ICP-MS method. American Geophysical Union Fall Meeting, San Francisco
- 2005 (31)*Palardy, JE, *Rodrigues, LJ, **Grottoli**, AG. Heterotrophic input in three species of

- healthy and bleached reef-building corals. 90th Annual Meeting of the Ecological Society of America. August 7-12, 2005. PAL-1109-620265
- 2005 (30) *Palardy JE, *Rodrigues LJ, **Grottoli AG**. Feeding rates in healthy and bleached reef-building Hawaiian corals. Benthic Ecology Meetings, Williamsburg, VA
- 2005 (29) *Rodrigues LJ, **Grottoli AG**. Energy reserves and metabolism in bleached and recovering *Porites compressa* and *Montipora capitata* corals from Hawaii. Benthic Ecology Meetings, Williamsburg, VA
- 2005 (28) **Grottoli AG**, Adkins JF, Moots K. Natural variability in skeletal growth rate, stable isotopes, and Sr/Ca composition in two species of Pacific sclerosponges (*Acnathocheatetes wellsi* and *Astroclera welleyana*). Benthic Ecology Meetings, Williamsburg, VA
- 2004 (27) *Rodrigues LJ, **Grottoli AG**. Stable oxygen ($\delta^{18}\text{O}$) and carbon ($\delta^{13}\text{C}$) isotopes in the skeleton of bleached and recovering corals from Hawaii. American Geophysical Union Fall Meeting, San Francisco, CA, B14B-08
- 2004 (26) *Matthews K, **Grottoli AG**, McDonough WF, *Palardy JE. Natural variability of environmental proxies in corals from an upwelling region. American Geophysical Union Fall Meeting, San Francisco, CA PP23B-1429
- 2004 (25) **Grottoli AG**. Stable carbon isotopes ($\delta^{13}\text{C}$) in coral skeletons: experimental approach and applications for paleoceanography. American Geophysical Union Fall Meeting, San Francisco, CA, B14B-07
- 2004 (24) *Rodrigues LJ, **Grottoli AG**. Lipids, carbohydrates, and proteins in bleached and recovering corals from Kaneohe Bay, Hawaii. 10th International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (23) *Palardy JE, **Grottoli AG**, *Matthews K. The effect of morphology, polyp size and depth on feeding in three species of Panamanian corals. 10th International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (22) **Grottoli AG**, Gibb O. Stable carbon isotope records in a Palau sclerosponge. 10th International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (21) *Matthews KA, **Grottoli AG**, McDonough WF, *Palardy JE. The effect of upwelling, species and depth on the natural variability of cadmium in three species of Panamanian corals. 10th International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (20) **Grottoli AG**. Stable carbon isotopes ($\delta^{13}\text{C}$) in corals: An experimental approach and applications for paleoceanography. Goldschmidt Conference, Copenhagen, Denmark. Abstract # 0.0.12. Geochimica et Cosmochimica Acta 68(11):A22 supp
- 2004 (19) **Grottoli AG**, Gibb O. Stable carbon and oxygen isotope records in a Palau sclerosponge. Goldschmidt Conference, Copenhagen, Denmark. Abstract # 4.63.25, Geochimica et Cosmochimica Acta 68(11): A474 supp
- 2004 (18) **Grottoli AG**. River discharge and coral reefs: effects of terrestrially derived sediments on corals in the Guanica Preserve, Puerto Rico over the past century. Woodrow Wilson National Fellowship Retreat. Princeton, New NJ, Oct 2004.
- 2004 (17) Palardy JE, **Grottoli AG**, *Matthews K. The effect of morphology, polyp size and depth on feeding in three species of Panamanian corals. The 33rd Annual Marine Benthic Ecology Meeting, Mobile Alabama. March 26-28. Abstract 10362
- 2004 (16) **Grottoli AG**, *Rodrigues LJ, *Juarez C. Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition. The 1st Annual Combined Effects Think Tank to Support CREWS Modeling. March 2003, LSI Bahamas.
- 2003 (15) †Hönisch B, Hemming NG, **Grottoli AG**, Amat A, Hanson GN, Bijma J. The effect of light, respiration and $p\text{CO}_2$ on $\delta^{11}\text{B}$ in coral skeletons: results from culture and field

- experiments. European Geological Society – American Geophysical Union Joint Assembly, Nice, France.
- 2003 (14) **Grottoli** AG, Gibb O, Wellington GM. Pre-treatment effects on coral skeletal $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$. American Geophysical Union Fall Meeting, San Francisco. Abs. PP11A-0198
- 2002 (13) **Grottoli** AG. Stable carbon isotope record in a Palau Sclerosponge. American Geophysical Union Fall Meeting, San Francisco. PP51A-0287
- 2002 (12) *Rodrigues LJ, **Grottoli** AG, *Juarez C. Effect of bleaching on lipid biomass in two Hawaiian coral species. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting 2002, Honolulu Abs. OS21F-124
- 2002 (11) **Grottoli** AG, Gille ST, Druffel ERM, Dunbar RB. Radiocarbon in a Fanning Island coral: inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922 - 1955. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting 2002, Honolulu.
- 2000 (10) **Grottoli** AG, Druffel ERM, Gille ST, Dunbar RB. Identification of seasonal-to-decadal timescale variations in the zonal currents of the central equatorial Pacific prior to 1955 using $\Delta^{14}\text{C}$ in coral. American Geophysical Union Fall Meeting, San Francisco. Abs. OS22H-02
- 2000 (9) **Grottoli** AG, Druffel ERM, Gille ST, Dunbar RB. Identification of seasonal to decadal timescale variations in the zonal currents of the central equatorial Pacific prior to 1955 using $\Delta^{14}\text{C}$ in coral. 9th International Coral Reef Symposium, Bali, Indonesia. Abs. A17.16
- 2000 (8) **Grottoli** AG. Stable carbon isotopes in coral skeletons. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, San Antonio, TX Abs. OS21N-04
- 2000 (7) *Juarez C, **Grottoli** AG. Lipid concentrations in bleached and non-bleached Hawaiian corals. UC-Irvine Undergraduate Research Forum.
- 1999 (6) **Grottoli** AG. Interpretation of stable carbon isotopes in reef coral skeletons and applications for paleoclimate reconstruction. Dissertation Initiative Advancement of Limnology and Oceanography (DIALOG III) p.56
- 1999 (5) **Grottoli** AG. Interpretation of stable carbon isotopes in reef coral skeletons and applications for paleoclimate reconstruction. Dissertation Symposium on Chemical Oceanography (DISCO XV), Honolulu, HI p.6
- 1998 (4) **Grottoli** AG. Coral skeletal $\delta^{13}\text{C}$ as a paleo-tracer of solar irradiance levels and zooplankton concentrations: an experimental approach. American Geophysical Union Fall Meeting, San Francisco. Abstract OS41A-10
- 1997 (3) **Grottoli**-Everett AG. Effect of irradiance and heterotrophy on the stable carbon isotopic ($\delta^{13}\text{C}$) composition of scleractinian corals. United States Environmental Protection Agency Science to Achieve Results (STAR) Graduate Fellowship Program: Technical Conference, June 16-17, Research Triangle Park, North Carolina. EPA/600/R-97/049, p70
- 1996 (2) **Grottoli**-Everett AG, Wellington GM. Effect of light and zooplankton on skeletal $\delta^{13}\text{C}$ in the eastern Pacific corals *Pavona clavus* and *P. gigantea*. 8th International Coral Reef Symposium, Panama. Abstract p. 78
- 1996 (1) **Grottoli**-Everett AG. The effect of bleaching on lipid levels in the coral *Montipora verrucosa*. American Society of Zoologists, St. Louis, MO. Abstract in: American Zoologist 34(5):70a

MEETINGS ATTENDED:

8th -13th International Coral Reef Symposium 1996, 2000, 2004, 2008, 2012, 2016
 American Association for the Advancement of Science Meeting 2018

Ocean Acidification PI Meeting (NSF-OCB) 2013
The Ocean in a High-CO₂ World 3rd International Symposium (2012)
Ocean Sciences Meeting (ASLO/AGU) 2000, 2002, 2006, 2008, 2010
American Geophysical Union Fall Meeting (AGU) 1999, 2001 – 2005, 2011
American Society of Limnology and Oceanography (ASLO) Meeting 2007, 2009, 2011
Goldschmidt Conference 2004
Benthic Ecology Meeting 2005, 2006
Dissertation Symposium on Chemical Oceanography (DISCO XV) 1999
Environmental Protection Agency (EPA) Technical Conference 1997
2nd Annual University of Houston Life Sciences Research Symposium 1997
American Society of Zoologists Meeting 1994

MEMBERSHIPS:

International Society for Reef Studies
American Society of Limnology and Oceanography
American Association for the Advancement of Science
Geochemical Society
American Geophysical Union
The Ohio Academy of Sciences
Sigma Xi

PUBLICITY and MEDIA OUTREACH:

- 2002 Interviewed and quoted in “Female Profs Talk About Their Careers” Daily Pennsylvanian (Feb)
2003 Interviewed and quoted in “Science Lacking in Female Faculty” Daily Pennsylvanian (Oct 29)
2003 Interviewed and quoted in “Female Faculty Panel Addresses Gender Equity Issues” Daily Pennsylvanian
2005 Interviewed and quoted in “Carbon Counter: The Undersea/Oversea World of Andrea Grottoli” PENN Arts and Science Magazine (Winter)
2006 *Grottoli et al (2006) Nature* paper media coverage:
a) Radio Interviews
NPR interview (Science Fridays Talk of the Nation) (28 April):
www.npr.org/templates/story/story.php?storyId=5369310
Quirks and Quarks radio show interview (CBC Radio Canada)
www.cbc.ca/quirks/media/2005-2006/mp3/qq-2006-05-06c.mp3
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Newswise.com: www.newswise.com/articles/view/538254/?sc=rssn
- 2008 **LaVigne et al.** (2008) Geophysical Research Letters media coverage:
AGU Editor’s Choice highlights: www.agu.org/journals/scripts/highlight.php?pid=2007GL031926
Science Magazine Editor’s Choice vol 319:1590-1591: www.sciencemag.org
- 2008 National Science Foundation - Multimedia Communications interview for 14-part video series on “To What Degree: What Science Tells us About Climate Change” produced for the Research Channel. www.researchchannel.com
- 2008 Interviewed and quoted in: “Mission: implausible: the desperate plight of coral reefs has led to some extraordinary rescue plans. Mark Schrope weighs them up.” By Mark Schrope. New Scientist 200.2678 (Oct 18): p28(4)
- 2010 Research featured in Global Perspective (OSU Office of International Affairs publication) at <http://oia.osu.edu/global-perspectives/1638-global-perspectives-spring-2010-newsletter-.html#coral>
- 2010 Field research experience for undergrads featured by Office of International Affairs – Get a Passport campaign. Posters were displayed on campus buses and at other locations.
- 2010 Interviewed and quoted for Portuguese e-news (PÚBLICO www.publico.pt) about coral bleaching research in Mexico by Helena Gerales and publication in online and print newspaper in Lisbon, Portugal. http://ecosfera.publico.pt/biodiversidade/Details/nas-caraibas-existem-coraais-que-conseguem-sobreviver-ao-calor_1445618
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Msnbc: http://www.msnbc.msn.com/id/39638641/ns/technology_and_science-science/
World News: http://article.wn.com/view/2010/10/12/Coral_Records_Show_Ocean_Thermocline_Rise_With_Global_Warmin/
USA today: <http://content.usatoday.com/communities/sciencefair/post/2010/10/coral-climate-change/1>
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Pollution online: <http://www.pollutiononline.com/article.mvc/Coral-Records-Show-Ocean-Thermocline-Rise-0001?VNETCOOKIE=NO>
x-journals: <http://x-journals.com/2010/coral-records-show-ocean-thermocline-rise-with-global-warming/>
Yahoo: http://news.yahoo.com/s/livescience/20101012/sc_livescience/seachangecoralsrevealclimatechangesimpactonocean
Redorbit: http://www.redorbit.com/news/science/1930637/coral_records_show_ocean_thermocline_rise_with_global_warming/index.html?source=r_science
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www.nsf.gov/news/news_summ.jsp?cntn_id=117823&org=NSF&from=news
- 2011 ***Edge of Light***: OSU Video Feature of Grottoli coral research
<https://www.osu.edu/features/2011/edgeoflight.html>
- 2011 Interviewed and featured in “An Ocean of Trouble” article by Dylan Tussel in the Columbus Dispatch <http://www.dispatch.com/content/stories/science/2011/08/14/an-ocean-of-trouble.html>
- 2011 Interviewed by American Reef for Ocean Acidification and Global Warming Coral Project research (full video available)
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- 2009 – present Micro-blog of ongoing coral research at www.twitter.com/CoralResearch
- 2014 EPA STAR interview (Jan) “Fellow Success Story” <http://www.scgcorp.com/fellowship/>
- 2014 Interview with Mary McLaughlin, assistant to Franklin County Commissioner Paula Brooks on the Presidential Task Force on Climate Preparedness and Resilience, about the impact of ocean acidification and global change on Ohio (9 April)
- 2014 Interview with high school student Zain about ocean acidification and global change (4 April)
- 2014 ***Grottoli et al. (2014)*** Global Change Biology media coverage:
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<http://news.science360.gov/obj/story/b1df6cb-c9ec-4a67-aa20-e493c8fe3e41/corals-adapting-climate-change-survival-fattest-flexible>
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- 2014 Grottoli undergraduate student Casey Saup featured in OSU College of Arts and Sciences current student Research Profile <https://artsandsciences.osu.edu/current-students/beyond-the-classroom/undergrad-research/profiles2>
- 2014 Interview with high school student Leah Solomon for feature in the Westfall High School newspaper The Echo 50(3):5 <http://www.westfallschools.com/Downloads/November%20Publication.pdf>
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- 2015 ***TEDx OSU invited speaker (14 Feb) Our Coral Connection***, <http://tedx.osu.edu/2015-speakers/>
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- 2016 Interviewed on Press Play with Madeleine Brand (KCRW in Los Angeles, CA) about “Is the Great Barrier Reef really dead?” (16 Oct 2016) <http://www.kcrw.com/news-culture/shows/press-play-with-madeleine-brand/mayor-garcetti-on-the-future-of-la-development> and scroll down to RIP Great Barrier Reef
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- 2017 **Grottoli AAAS Fellow** media coverage:
 AAAS 2017 Fellows <https://www.aaas.org/page/2017-fellows>
 “Two Arts and Sciences faculty members named 2017 AAAS Fellows” <https://artsandsciences.osu.edu/news/arts-and-sciences-faculty-members-named-2017-aaas-fellows>
 “Dr. Andrea Grottoli named 2017 AAAS Fellow” School of Earth Sciences Alumni News Notes (Nov 2017) <https://earthsciences.osu.edu/alumni/2017-alumni-news-notes>
 AAAS names four Ohio State faculty as 2017 Fellows <https://news.osu.edu/news/2017/11/20/2017-aaas-fellows/>
 SES News “Professor Andrea Grottoli named AAAS Fellow” <https://earthsciences.osu.edu/news/professor-andrea-grottoli-named-aaas-fellow>
- 2017 Interviewed by Eva Botkin-Kowacki and quoted in “Can ‘super-corals’ save the reefs?” Christian Science Monitor, Dec 2017, <https://www.csmonitor.com/Environment/2017/1228/Can-super-corals-save-the-reefs?cmpid=push013s>
- 2018 **Grottoli et al (2018) PLoS ONE media coverage:**
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 School of Earth Sciences News <https://earthsciences.osu.edu/news/new-study-coral-micorbiome-and-climate-change>
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- PhysOrg <https://phys.org/news/2018-01-climate-weakens-coral-immune.html>
- Science Daily <https://www.sciencedaily.com/releases/2018/01/180122150021.htm>
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- 2018 Interviewed by Jason G. Goldman and quoted in “Even Corals Have Microbiomes”, Hakai Magazine, February 2018 <https://www.hakaimagazine.com/news/even-corals-have-microbiomes/>
- 2018 Interviewed by Amelia Urry and quoted in “Can Coral Microbes Protect Reefs from Climate Change?”, Oceans Deeply, March 2018, <https://www.newsdeeply.com/oceans/articles/2018/03/13/can-coral-microbes-protect-reefs-from-climate-change>

REVIEWER FOR:

Funding agencies:

National Science Foundation (Division of Ocean Sciences)
 National Ocean and Atmospheric Association (NOAA)
 NERC – Natural Environment Research Council of the UK
 Caribbean Marine Research Center, a NOAA/NURC program
 BARD, the United States - Israel Binational Agricultural Research & Development Fund
 Netherlands Organization for Scientific Research (NWO) Climate Variability Program
 The Leverhulme Trust
 OITI Report (NSF, ONR)

Journals:

Palaios	Nature Communications
Geology	Geophysical Research Letters
PLoS ONE	Limnology and Oceanography
Science (AAAS)	Marine Ecology Progress Series
Marine Biology	Journal of Geophysical Research
Chemical Geology	Geochimica et Cosmochimica Acta
Paleoceanography	Estuarine, Coastal and Shelf Science
Biological Reviews	
Palaeogeography, Palaeoclimatology, Palaeoecology	
Journal of Experimental Marine Biology and Ecology	
Proceedings of the National Academy of Sciences (PNAS)	

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COMMITTEES AT OHIO STATE UNIVERSITY:

2017 - SES Promotion and Tenure Committee Chair
2017 - SES Administrative Committee, Member
2017 - OSU Research Committee (URC), Member
2017 - SES Mentor Committee for Elizabeth Griffith, Co-Mentor
2014 - SES Mentor Committee for Audrey Sawyer, Co-Mentor
2013 - SES Mentor Committee for Michael Wilkins, Co-Mentor
2013 - 2017 SES Technical support in geochemistry committee, Chair
2015 - 2017 OSU Senate Steering Committee and Senate Executive Council
2014 - 2017 OSU Faculty Senator and Faculty Council, Member
2008 - 2016 SES Division of Water, Climate and Env. Mini-Symposium, Chair
2015 - 2016 Global Water Institute committee, Member
2015 - 2016 OSU Graduate Council, Member
2013 - 2016 SES Faculty Evaluation Committee, Member
2013 - 2016 SES Promotion and Tenure Committee, Member
2010 - 2016 SES Advisory Committee to the Director, Member
2011 - 2012 SES Concentration: Earth System Science program development, Chair
2011 SES Guidelines on Emeritus Space and Resources committee, Chair
2010 CAS (College of Arts & Sciences) Parental Leave Working Group, Member
2009 - 2011 SES Webpage development, Chair
2009 - 2010 SES Curriculum Committee, Member
2009 EEOB Plant Ecologist Search Committee, Member
2007 - 2008 SES Graduate Committee, Member
2007 - 2008 SES Colloquium Committee, Member
2007 SES Division of Water, Climate and Environment Seminar, Coordinator
2005 - 2012 SES Health and Safety committee, Member
2005 - 2007 SES Curriculum Committee, Member
2005 - 2007 SES Major in Oceanography program development, Chair
2001 - 2004 U. Pennsylvania Institute for Environmental Studies Advisory Board, Member
2002 - 2004 U. Pennsylvania Masters of Environmental Science, Faculty Advisor
2003 U. Pennsylvania Instrumentation Acquisition Committee in Earth Sci, Member

MAJOR STUDENT OR POSTDOC ADVISOR TO:

PhD students

- 1) **James Price** (in progress)
Dissertation: *Coral microbiome under climate change conditions and potential for acclimation*
Awards: OSU first year graduate fellowship, ISRS Graduate Scholarship
- 2) **Rowan McLachlan** (candidate)

- Dissertation: *Coral adaptation and acclimatization to global change*
 Awards: Scottish International Education Trust, OSU Sigma Xi, National Sigma Xi
- 3) **Kerri Dobson** (candidate)
 Dissertation: *Multiple stressor effects on corals*
 Awards: National Sigma Xi, Alumni Grants for Graduate Research and Scholarship
- 4) **Geoffrey Dipre** (candidate)
 Dissertation: *A reconstruction of quaternary Arctic environments using a multi-proxy analysis of Arctic Ocean sediment cores*
 Awards: University Fellow, AMS Summer Policy Colloquium
- 5) **Verena Schoepf** (PhD 2013)
 Dissertation: *Physiology and Biogeochemistry of Corals Subjected to Repeat Bleaching and Combined Ocean Acidification and Warming*
 Awards: Ohio State University Presidential Fellow, Lee Fund Fellow, Rotary Club Innsbruck Research Fellowship, Mayer Travel Fund,
 Currently: postdoc at the University of Western Australia
- 6) **Stephen Levas** (PhD 2012)
 Dissertation: *Biochemistry and Physiology of Bleached and Recovering Hawaiian and Caribbean Corals*
 Awards: National Science Foundation East Asia and Pacific Summer Institutes Program Fellow, Ford Foundation Minority Scholarship Fellow, Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science Scholar
 Currently: Assistant Professor, University of Wisconsin – Whitewater
- 7) **Branwen Williams** (PhD 2009)
 Dissertation: *Biogeochemistry of Alcyonacean and Antipatharian Corals in the Western Pacific Warm Pool*
 Awards: National Science and Engineers of Canada Graduate Fellow
 Currently: Associate Professor (tenured) at Claremont McKenna College
- 8) **Ryan P. Moyer** (PhD, 2008)
 Dissertation: *Carbon Isotopes and Trace Elements in Small Mountainous Rivers and Coastal Coral Skeletons in Puerto Rico.*
 Awards: Ohio State University Presidential Fellow, USGS Mendenhall Postdoctoral Fellow, St. Petersburg, FL
 Currently: Associate Research Scientist at Florida Fish & Wildlife Conservation Commission
- 9) **Kathryn A. Matthews** (PhD, 2007)
 Dissertation: *Cadmium in Coral Skeleton: Natural Variability and In Situ Calibration.*
 Positions: Postdoctoral fellow at the Los Alamos National Laboratory, NM (2007-9),
 Congressional Postdoctoral Fellow, Washington, DC (2009-2010)
 Currently: Program Officer at Oceanea
- 10) **Lisa J. Rodriguez** (PhD, 2005)
 Dissertation: *Physiology and Biogeochemistry of Bleached and Recovering Corals from Hawaii*
 Positions: Postdoctoral Fellow, Department of Biology, Villanova University (2005-2008)
 Currently: Associate Professor (tenured), Villanova University

MS students:

- 1) **Scott Kelsey** (M.S. 2016)
Thesis: *Impact of land use on headwater stream organic and inorganic carbon export in a temperate Midwestern experimental watershed*
Currently: laboratory technician at Wright State University
- 2) **Justin Bauman** (M.S. 2013)
Thesis: *The Effects of Elevated Temperature Stress on the Acquisition and Allocation of Carbon to Lipids in Hawaiian Corals*
Currently: PhD student at University of North Carolina – Chapel Hill
- 3) **Abbey E. Chrystal** (M.S. 2008)
Thesis: *Exploring Linear Extension and Stable Isotopes ($\delta^{18}O$, $\delta^{13}C$) as Proxies for Coral Bleaching in *Porites lobata*.*
- 4) **Ruth Adler** (M.S. 2008)
Thesis: *The first Late Quaternary sediment record from the western Arctic Ocean with a true millennial resolution: HOTRAX core HLY0503-08JPC, Mendeleev Ridge*
Awards: National Science Foundation GK-12 Graduate Fellow
Currently: Adjunct professor at Case Western University
- 5) **Henry Chun-Yi Wu** (M.S., 2004)
Thesis: *Stable Isotope Records from Western Pacific Corals*
Current: Research Scientist at the University of Paris Laboratoire D’Oceanographie et du Climat

Undergraduates (senior thesis)

- 1) **Andrea Wertz** (BS Biology, in progress)
Thesis: *Effect of bleaching and ocean acidification on coral pigmentation.*
- 2) **Alexandra Smith** (BS Earth Science, in progress)
Thesis: *Natural variability in the contribution of heterotrophic carbon to tissues of *Montipora capitata**
Awards: SURE scholar, Office of Energy and Environment Undergrad Research Grant
- 3) **John Armstrong** (BS EEOB, in progress)
Thesis: *Carbon budgets of bleached Hawaiian corals recovering under ocean acidification conditions*
- 4) **Sarah Solomon** (BS EEOB, in progress)
Thesis: *Lipid class composition of annually bleached Caribbean corals*
Awards: Grottoli Undergrad Hoover Foundation Internship, ASC Undergrad Research Scholar, Undergraduate Research Scholar, National Sigma Xi, Student research blogg
<https://ugresearchtheohiostateuniversity.wordpress.com/2018/01/18/climate-change-sarah-solomon/>,
- 5) **Margaret Otto** (BEng, in progress)
Thesis: *Modeling pH and temperature manipulations in situ*
Awards: STEP scholar, Grottoli Undergrad Hoover Foundation Internship
- 6) **Chloe Criswell** (BEng, in progress)
Thesis: *Modeling pH and temperature manipulations in situ*

- 7) **Katherine Giesy** (BS Zoology, 2017, research distinction)
Thesis: *Effect of pH and temperature on carbon budgets of the Hawaiian corals Porites lobata*
- 8) **Alec Moore** (BS EEOB, minor SES, 2017, research distinction)
Thesis: *Variability in Hawaiian coral across naturally occurring gradients in temperature, pCO₂, and flow.*
Awards: SURE Scholar, URO Mayers Summer Research Scholar, Grottoli Undergrad Hoover Foundation Internship, Ohio EPA Scholarship, OSU Sigma Xi, Arts and Sciences Undergraduate Research Scholarship, winner of the Denmen Undergraduate Research Forum (3rd place) and the Natural & Mathematical Sciences Undergrad Research Forum
- 9) **Annce Kadri** (BS Environmental Science, 2016)
Thesis: *Recovery of coral biomass following bleaching under ocean acidification conditions*
Awards: OSU Research Scholars Award, SURE scholar
Currently: dental school
- 10) **Casey Saup** (BS Earth Science, 2015)
Thesis: *Physiological and isotopic responses of Stylophora pistillata to future coastal ocean conditions*
Awards: NMS Undergraduate Research winner, -Denman Undergraduate Research honorable mention, SURE scholar
- 11) **Micheal McBride** (BS Biology, 2014)
Thesis: *Effect of Repeat Bleaching Stress on the Stable Isotopes of Porites astreoides Corals*
Currently: Ohio University Heritage College of Osteopathic Medicine
- 12) **Tyler Liston** (BS Earth Science, 2014)
Thesis: *Interactive Effects of Temperature, Nutrients, and Ocean Acidification on Coral Biomass*
Awards: NMS Undergraduate Research Forum winner
- 13) **Colin Gearing** (BS Earth Science, 2013)
Thesis: *Particulate organic fluxes in Acropora millepora and Turbinaria reniformis at elevated temperature and pCO₂*
- 14) **Sarah Starkey** (BS Geology, 2012)
Thesis: *Sources of carbon to the skeleton of the mesophotic coral Leptoseris hawaiiensis*
Awards: SURE scholar
- 15) **Maximillian Ringwald** (BS Geology, 2012)
Thesis: *Denaturing Gradient Gel Electrophoresis Analysis of Microbial Community Variation in Bleached and Non-bleached Montastraea faveolata*
Awards: SURE Scholar
- 16) **Dana Borg** (Gava) (BS Geology, Honors, 2011)
Thesis: *Paleoceanography of sclerosponges from elemental signatures*
Awards: SURE Scholar, ASLO undergraduate research poster winner
- 17) **Justin Baumann** (BS Zoology/ BA Geology, 2011)
Thesis: *The effects of single and repeat bleaching on photosynthesis, respiration, and feeding in three species of Caribbean coral*
Awards: SURE Scholar, NMS Undergraduate Research Forum winner
- 18) **Teresa Huey** (Sanders) (BS SENR, 2011)

Thesis: *Effect of Land Use on the Age and Isotopic Composition of Dissolved and Particulate Carbon in Headwater Streams*

Awards: SURE Scholar

19) **Chris Paver** (BS Earth Science, 2007)

Thesis: *Temporal and Spatial Natural Variability of the $\delta^{13}\text{C}$ of Dissolved Inorganic Carbon in Seawater*

20) **James E. Palardy** (BA Biology, 2004)

Thesis: *The Effect of Morphology, Polyp Size, Depth and Temperature on Feeding in Three Species of Panamanian Corals*. Published as Palardy et al. (2005)

Currently: program officer at the Pew Charitable Trust

21) **Lillian Bloch** (BA 2004)

Thesis: *Developing a Method for Black Carbon Extraction from Coral and Application to an Australian Coral Core*.

22) **Christopher Malachowski** (BA 2004)

Thesis: *Effects of River Discharge on Coral Reefs in Puerto Rico and the Relationship to Land Use/Land Cover*.

Postdocs

1) **Stephen Levas** (2012-2013)

Project: *Effect of ocean acidification and warming on corals* (NSF-funded project of Grottole)

Currently: Assistant Professor University of Wisconsin – Whitewater

2) **Yasuaki Tanaka** (2012-2013)

Project: *The allocation of nitrate-derived N to the zooxanthellae, host tissue, and carbonate skeleton of *Montipora digitata* and *Porites cylindrica*, and subsequent changes in the $\delta^{13}\text{C}$ of each fraction*.

Awards: Japan Society Research Fellowships for Young Scientist

Currently: Assistant Professor at University Brunei Darussalam

3) **Branwen Williams** (2009)

Project: *Paleoceanography of the Pacific Warm Pool*

Currently: Associate Professor (tenured) at Claremont McKenna College

4) **Adam D. Hughes** (2006-2008)

Project: *Acquisition, Allocation, and Utilization of Carbon in Bleached and Recovering Corals* (NSF-funded project, Grottole lead PI)

Currently: Research Scientist, The Scottish Association for Marine Science Dunstaffnage Marine Laboratory

Visiting Scientist

1) **Marji Puotinen** (2012 - 2013), University of Wollagong

Project: Effect of hurricane-produced cool wakes on coral reefs

Faculty Mentees

1) **Michael Wilkins**, Assistant Professor in SES (2013 – present)

2) **Audrey Sawyer**, Assistant Professor in SES (2014 – present)

3) **Elizabeth Griffith**, Assistant Professor in SES (2017 – present)

STUDENT COMMITTEE MEMBER (in addition to Major students above):

- 1) **Samantha Carter** (PhD in progress, Ohio State University)
- 2) **Amber Bellamy** (PhD 2016, Ohio State University) *Contributions of allochthonous and aged organic matter to the diet and nutrition of macroinvertebrates*
- 3) **Donald Permana** (PhD 2015, Ohio State University) *Reconstructing History of Temperature and Net Accumulation based on Papua Ice-Cores and Its Implication on Climate Variability over Indonesia*
- 4) **Alvaro Fernandez** (PhD 2015, Tulane University) *Isotopic proxies of continental and oceanic climate* (currently postdoc in Switzerland)
- 5) **Karl Philippoff** (MS 2014, Ohio State University) *A climate history recovered from the Zangser Glacier, west-central Tibetan Plateau.*
- 6) **Jesse Filburn** (PhD 2013, Ohio State University) *An ecological approach to feed management in fish rearing ponds.*
- 7) **Deborah Leslie** (PhD student 2011-2012, Ohio State University) *Applying Stable Isotopes, $\delta^{13}\text{C}$, $\delta^{18}\text{O}$, and δD , in Geochemical and Hydrological Investigations*
- 8) **Kathryn Lang** (BS 2012 senior thesis, Ohio State University) *Hypoxia as a mediator of food web interactions and energy flow in reservoir ecosystems.*
- 9) **Donald Permana** (MS 2011, Ohio State University) *Reconstructing History of Temperature and Net Accumulation based on Papua Ice-Cores and Its Implication on Climate Variability over Indonesia*
- 10) **Annette Trierweiler** (MS 2010, Ohio State University) *Interaction of Landslides and Land Use Changes on Fluvial Carbon Transport*
- 11) **Henry Wu** (PhD 2010 at SUNY-Albany) *Assessing replicated coral trace element (Sr/Ca and Mg/Ca) variability and skeletal growth records from the tropical Pacific*
- 12) **Natalie Kehrwald** (PhD 2009, Ohio State University) *Low-latitude ice cores and freshwater availability.*
- 13) **Seth Young** (PhD 2007, Ohio State University) *A chemostratigraphic investigation of the late Ordovician greenhouse to icehouse transition: oceanographic, climatic, and tectonic implications.*
- 14) **Suzanna Richter** (PhD 2006, University of Pennsylvania) *Continental-Scale Patterns in Wood Cellulose $\delta^{18}\text{O}$: Implications for Paleoclimate Reconstruction*

WORK-STUDY, INTERNSHIP, and VOLUNTEER STUDENTS:

- | | |
|--|------------------------------------|
| 1) Carlos Juarez (1999 – 2000) | 13) Rachel Michelli (2007) |
| 2) James Palardy (2001 – 2004) | 14) Zachary Rosenbloom (2007) |
| 3) Lillian Bloch (2002 - 2003) | 15) Christine Andrews (2007) |
| 4) Lauren Tang (2002 - 2003) | 16) Louis Boucher (2007) |
| 5) Shayna Higa (2002 - 2003) | 17) Frances Lugo (2007-2008) |
| 6) Leigh Seeleman (2003 – 2004) | 18) Scott Himes (2007 - 2008) |
| 7) Emily Young (2003) | 19) Brad Hull (2007 - 2008) |
| 8) Christopher Malachowski (2003 – 2004) | 20) Pat Burns (2007-2008) |
| 9) Haley Wolfgruber (2004) | 21) Lei-Wei Hung (2008-2009) |
| 10) Lindsey Swiacki (2004 – 2005) | 22) Julie Ditkof (2009) |
| 11) Chris Paver (2005 – 2007) | 23) Jane Marino (2009-2010) |
| 12) Patrick Bills (2007) | 24) Lindy Rauchenstein (2009-2010) |

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|---|--|
| 25) Shaun Bartels (2010) | 47) Andrew Huber (2016) |
| 26) Teresa Huey (2008 - 2011) | 48) Katiri Snyder (2015 – 2016) |
| 27) Justin Bauman (2009- 2011) | 49) Alec Moore (2015 – 2017) |
| 28) Mikelis Berzins (2011) | 50) Emily Sambuco (2015 – 2017) |
| 29) Mohammed Munster (2011) | 51) Mathias Wagner (2016 – 2017) |
| 30) Mark Ferrito (2010 – 2011) | 52) Francesca Hawkes (2017) |
| 31) Maximillian Ringwald (2011 – 2012) | 53) Lydia Mullins (2017) |
| 32) Chrissy Zerda (2011 – 2012) | 54) Sarah Solomon (2015 – present) |
| 33) Alexander Singer (high school intern) (2011 – 2012) | 55) Chloe Criswell (2016 – present) |
| 34) Jordan Scheurman (SURE - 2012) | 56) Margaret Otto (2016 – present) |
| 35) Elizabeth Zebrowski (2011 – 2012) | 57) John Armstrong (2016 – present) |
| 36) Megan Shortridge (2012 – 2013) | 58) Katherine Giesy (2016 – present) |
| 37) Michael McBride (2012 – 2014) | 59) Jordan Walters (2017 – present) |
| 38) Samantha Blackhurst (2012 – 2014) | 60) Colin Mortemore (2017 – present) |
| 39) Tyler Liston (2013 – 2014) | 61) Jackie Altschuler (2017 – present) |
| 40) Colin Gearing (2013 – 2014) | 62) Alex Smith (2017 SURE – present) |
| 41) Megan Dudte (2014) | 63) Andrea Wertz (2017 – present) |
| 42) Spencer Palombit (2014) | 64) Hailey Hayes (2017 – present) |
| 43) Malloree Hagerty (2014 - 2015) | 65) Adrianna Arribas (2018 – present) |
| 44) Casey Saup (2013 – 2015) | 66) Kristen Rockwell (2018 – present) |
| 45) Annce Kadri (2014 – 2016) | 67) Claire Juracka (2018 – present) |
| 46) Maddie Rokosh (2015) | |

TOTAL NUMBER OF STUDENTS ADVISED:

Graduate Student PhD Dissertation Major Advisor: 10

Graduate Student Masters Major Advisor: 5

Graduate Student Committee Member (not as Major Advisor): 14

Total graduate students advised: 28

Total undergraduate senior thesis students advised: 21

Total undergraduate work-study, interns, and volunteers: 67

Total Postdocs advised: 4