

# Institute for Research on Global Climate Change

## Publications since the Institute was established in 2009

1. Aronson, R. B., R. M. Moody, L. C. Ivany, D. B. Blake, J. E. Werner and A. Glass. 2009. Climate change and trophic response of the Antarctic bottom fauna. PLoS ONE 4(2):e4385. doi:10.1371/journal.pone.0004385. 6 pp.
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3. Thompson D and van Woesik R (2009) Corals escape bleaching in regions that recently and historically experienced frequent thermal stress. Proc Royal Society B. 276(1669): 2893-2901
4. Muller E and van Woesik (2009) Shading reduces coral-disease progression. Coral Reefs 28: 757-760
5. Thatje, S. and R. B. Aronson. 2009. No future for the Antarctic Treaty? Frontiers in Ecology and the Environment 7:175.
6. Mosblech, R. van Woesik (2011) On metapopulations and microrefugia: paleoecological insights. J Biogeography 38(3): 419-429
7. Aronson, R. B. and W. F. Precht. 2009. Sustaining ecosystem services in the global coral reef crisis. Pages 48-55 in G. L. Nelson and I. Hronsky, editors. Sustainability 2009: The Next Horizon. American Institute of Physics, Melville, NY.
8. Aronson, R. B., I. G. Macintyre, A. M. Moesinger, W. F. Precht and M. R. Dardeau. 2009. History of reef coral assemblages on the rhomboid shoals of Belize. Smithsonian Contributions to the Marine Sciences 38:313-321.
9. van Woesik R (2010) Calm before the spawn: global coral-spawning synchronization is explained by regional wind fields. Proc Royal Society B, 277: 715-722
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12. Hillyer, R., Valencia, B.G., Bush, M.B., M. R. Silman, & Steinitz-Kannan, M. A 24,700-year paleolimnological history from the Peruvian Andes. *Quaternary Research* 71:71-82.
  13. Raper, D. & Bush, M.B. A test of *Sporormiella* representation as a predictor of megaherbivore presence and abundance. *Quaternary Research* 71, 490-496
  14. Urrego, D.H., Bush, M.B., & Silman, M.R. 2010. A long history of cloud and forest migration from Lake Consuelo. *Quaternary Research* 73:364-373
  15. Conroy, J.L., Restrepo, A., Overpeck, J.T., Steinitz-Kannan, M., Cole, J.E., Bush, M.B. and Colinvaux, P.A. Unprecedented recent warming in the eastern tropical Pacific. *Nature Geoscience* 2: 46-50.
  16. Correa-Metrio, A., Cabrera, K.R. Bush, M.B. & Silman, M.R.. in review. Deriving millennial-scale moisture availability curves from pollen data: an example from the Peruvian Amazon. Submitted to *Journal of Vegetation Science*.
  17. Bush, M.B. Expect the unexpected: A paleoecological view of rapid climate change. In *Sustainability 2009: The Next Horizon*, G. L. Nelson & I. Hronsky (eds.), pp 7-18. American Institute of Physics, New York.
  18. Bush, M. B. & W. D. Gosling. In review. Environmental change in the humid tropics and monsoonal regions. in J. Matthews, editor. *Handbook of Environmental Change*.
  19. Collins, A. & Bush, M.B. (2011). An analysis of modern pollen deposition on the Galapagos Islands. *The Holocene* 21:237-250.
  20. Valencia, B. G., D. H. Urrego, M. R. Silman, and M. B. Bush. (2010). From ice-age to modern: A record of landscape change in an Andean cloud forest. *Journal of Biogeography*.
  21. Bush, M.B. & Mosblech, N. Community change and Neotropical plant extinctions in *Extinction Risk from Climate Change*. L. Hannah (ed.)
  22. Feeley, K., Silman M.R., Mark Bush, M.B., Farfan, W., Cabrera, K.G. Malhi, Y., Meir, P., Revilla, N.S., Quisiyupanqui, M.N.R., Saatchi, S. in review. Migration of Andean trees in response to increasing temperatures. Submitted to *Global Change Biology*.
  23. Gosling, W. D., J. A. Hanselman, C. Knox, B. G. Valencia, and M. B. Bush. 2009. Long term drivers of change in *Polylepis* woodland distribution in the central Andes. *Journal of Vegetation Science* DOI 10.1111/j.1654-1103.2009.01102.x.

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26. Bush, M. B., J. A. Hanselman, and W. D. Gosling. in review. Non-linear climate change and Andean feedbacks: An imminent turning point? Submitted to *Global Change Biology*. Behling, H., Bush, M.B. & Henry Hooghiemstra in press *Biotic development of Quaternary Amazonia: a palynological perspective*. In Amazonia, landscape and species evolution: A look into the past. C. Hoorn, H. Vonhof, & F. Wesselingh (eds)
27. Urrego, D.H., La Drew, C.F., Silman, M.R. & Bush. M.B. 2011. Fire and drought as drivers of early-Holocene treeline changes in the Peruvian Andes. *J Quaternary Science* 26: 28-36
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29. Hanselman, J. A., M. B. Bush, W. D. Gosling, A. Collins, and C. Knox. In review. A 370,000-year record of vegetation and fire history around Lake Titicaca (Bolivia/Peru). Submitted to *Palaeogeography, Palaeoclimatology, Palaeoecology* 305: 201-214.
30. Urrego, D. and Bush, M.B. 2009. *Climate change and history of western Amazonian forests: A paleoecological analysis*. Verlag Dr. Muller, Saarrucken, Germany, 149p.
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37. Irikawa, A, Casareto B.E, Suzuki Y, Aagostini S, Hidaka M, R. van Woesik (2011) Growth anomalies on *Acropora cytherea* corals. Marine Poll Bull 8: 455-460
38. van Woesik, Sakai K, Ganase A, Loya Y (In Press) Coral bleaching: winning or losing is not time invariant. Mar Ecol Prog Ser
39. Muller EM, van Woesik R (2010) Shading increases black-band disease progression on *Diploria strigosa*. J Exp Mar Biol Ecol 397: 52-57
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42. Reed, K.C, E. Muller, R. van Woesik (2010) Coral immunology and resistance to disease. Diseases of Aquatic Organisms 90(2): 85-92
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44. Rongo T, and R. van Woesik (2011) Ciguatera fish poisoning in Rarotonga, southern Cook Islands. Harmful Algae 10:345=355
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49. Houk P and van Woesik R (2009) Coral fidelity, environmental forcing and emergent reef growth through the Holocene: a case study from the Commonwealth of the Northern Mariana Islands. *Marine Ecology* 31(2): 318-329
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