

CURRICULUM VITAE

KONRAD ALLEN HUGHEN

Senior Scientist

Marine Chemistry and Geochemistry

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EDUCATION:

Ph.D.: University of Colorado, Boulder - Geological Sciences, 1997

B.A.: University of California, Santa Cruz - Biology and Geology, double major, 1991

PROFESSIONAL EXPERIENCE:

Senior Scientist, Marine Chemistry and Geochemistry, WHOI, 2014 to present

Associate Scientist with tenure, Marine Chemistry and Geochemistry, WHOI, 2007-2014

Associate Scientist, Marine Chemistry and Geochemistry, WHOI, 2004-2007

Assistant Scientist, Marine Chemistry and Geochemistry, WHOI, 2000-2004

Research Scientist, INSTAAR, CU Boulder, 1999-2000

Postdoctoral Fellow, Harvard University, 1997-1999

Research Assistant, INSTAAR, CU Boulder, 1991-1997

Teaching Assistant, Geological Sciences, CU Boulder, 1991-1992

AWARDS AND HONORS:

WHOI Doherty Chair in Education, 2014-2016

NOAA Climate and Global Change Postdoctoral Fellowship, 1997-2000

DOE Alexander Hollaender Distinguished Postdoctoral Fellowship, 1997 (declined)

NASA Earth Systems Science Graduate Research Fellowship, 1995-1997

Univ. of Colorado Doctoral Fellowship, 1991

RESEARCH INTERESTS:

My research interests involve the development and application of inorganic and organic geochemical proxies for studies of environmental and climatic change. I use high-resolution, multiple-proxy records in order to understand the mechanisms controlling abrupt climate change and the response of ecosystems to rapid environmental shifts.

PUBLICATIONS IN PEER-REVIEWED JOURNALS AND BOOKS (*denotes first-author student or post-doc)

99. Bryan, S.P., Hughen, K.A., Karnauskas, K.B., Farrar, J.T., Increased Southwest Asian Summer Monsoon intensity and decreased variability over the past 250 years, *Science* (submitted).
98. Turney, C.S.M., Jones, R.T., Phipps, S.J., Thomas, Z., Hogg, A., Kershaw, A.P., Fogwill, C.J., Palmer, J., Ramsey, C.B., Adolphi, F., Muscheler, R., Hughen, K.A., Staff, R.A., Grosvenor, M., Golledge, N.R., Rasmussen, S.O., Hutchinson, S.K., Haberle, S., Lorrey, A., Boswijk, G., Cooper, A., Rapid global ocean-atmosphere response to Southern Ocean freshening during the last glacial, *Nat. Comm.* (in review).
97. Ramos, R.D., Goodkin, N.F., Siringan, F.P., Hughen, K., *Diploastrea heliopora* Sr/Ca and $\delta^{18}\text{O}$ records from northeast Luzon, Philippines: an assessment of interspecies coral proxy calibrations and climate controls of sea surface temperature and salinity, *Paleoceanography* (in press).
96. Goodkin N.F., Bolton, A., Karnauskas, K.B., Hughen, K.A., Griffin, S., Phan, K.H., Vo, S.T., Druffel, E.R.M., Decline of East Asian Winter Monsoon Variability since the 18th Century, *Nature Geoscience* (submitted).
95. Becker, C., Hughen, K., Mincer, T., Ossolinski, J., Weber, L., Apprill, A., Localized impact of aquaculture effluent on coral reef water nutrients and microorganisms, *Aquaculture Environment Interactions* (in press).
94. Rodriguez, V., Gonzalez, P., Fernandez, L., Siciliano, D., Bretos, F., Apprill, A., Hughen, K., Santoro, A., 2016, Health of the coral communities on reefs from Jardines de la Reina - golfo de Ana María, south-central region of Cuba, *Revista Investigaciones Marinas* **36**, 34-53.
93. Hogg, A., Southon, J., Turney, C., Palmer, J., Ramsey, C., Fenwick, P., Boswijk, G., Buntgen, U., Friedrich, M., Helle, G., Hughen, K., Jones, R., Kromer, B., Noronha, A., Reinig, F., Reynard, L., Staff, R., Wacker, L., 2016, Decadally Resolved Late Glacial Radiocarbon Evidence from New Zealand Kauri, *Radiocarbon* **58**, 709-733, DOI:10.1017/RDC.2016.86.
92. Cooper, A., Turney, C., Hughen, K., 2016, Response to Comment on “Abrupt warming events drove Late Pleistocene Holarctic megafaunal turnover”, *Science*, 10.1126/science.aad8016.
91. Turney, C.S.M., Palmer, J., Bronk Ramsey, C., Adolphi, F., Muscheler, R., Hughen, K.A., Staff, R.A., Jones, R.T., Thomas, Z., Fogwill, C.J., Hogg, A., 2016, High-precision dating and correlation of ice, marine and terrestrial sequences spanning Heinrich 3: Testing mechanisms of synchronous interhemispheric change using New Zealand ancient kauri (*Agathis australis*). *Quaternary Science Reviews*, doi: 10.1016/j.quascirev.2016.02.005.
90. *Fornace, K., Whitney, B., Galy, V., Hughen, K., Mayle, F., 2016, Late Quaternary Environmental Change in the Interior South American Tropics; New Insights from Leaf Wax Stable Isotopes, *EPSL* **438**, 75-85.
89. Hogg, A., Southon, J., Turney, C., Palmer, J., Ramsey, C., Fenwick, P., Boswijk, G., Friedrich, M., Helle, G., Hughen, K., Jones, R., Kromer, B., Noronha, A., Reynard, L., Staff, R., Wacker, L., 2016. Punctuated Shutdown of Atlantic Meridional Overturning Circulation during Greenland Stadial 1, *Nature Scientific Reports* **6**, 25902, doi:10.1038/srep25902.
88. Goodkin, N.F., Wang, B.S., You, C.F., Hughen, K., Prouty, N., Bates, N.R., Doney, S., 2015, Water Advection and Biogeochemistry Moderate Inter-annual and Decadal Surface Water pH Changes in the Sargasso Sea, *Geophys. Res. Lett.* **42**, 4931-4939, doi:10.1002/2015GL064431.
87. Shanahan, T.M., N. McKay, K.A. Hughen, J.T. Overpeck, W. Gosling, L. Miller, J.A. Peck, C. Scholz, C.W. Heil, J. King, 2016, CO₂ and fire influence abrupt savanna-woodland transitions in the tropics since the Last Glacial Maximum, *Nature Scientific Reports* **6**:29587, doi: 10.1038/srep29587.
86. Turney, C., Thomas, Z., Hutchinson, D., Bradshaw, C., Brook, B., England, M., Fogwill, C., Jones, R., Palmer, J., Hughen, K., Cooper, A., 2015, Obliquity-Driven Expansion Of North Atlantic Sea Ice 31,000 Years Ago, *Geophys. Res. Lett.* **42**, 10,382-10,390.

85. Cooper, A., Turney, C., Hughen, K., Brook, B., McDonald, H., Bradshaw, C., 2015, High-resolution timescale reveals climate-associated megafaunal turnover in Late Pleistocene Eurasia and North America, *Science* **349**, 602-606.
84. Work, T.M., Aeby, G.S., Hughen, K.A., 2015, Gross and microscopic lesions in corals from Micronesia, *Veterinary Pathology* **1-10**, doi:10.1177/0300985815571669.
83. *Bernstein, W., Hughen, K., Langdon, C., McCorkle, D., Lentz, S., 2016, Environmental Controls on Daytime Net Ecosystem Calcification on a Red Sea Reef Flat, *Coral Reefs* doi:10.1007/s00338-015-1396-6.
82. Shanahan, T., McKay, N., Hughen, K., Overpeck, J., Otto-Bliesner, B., Heil, C., King, J., Scholz, C., Peck, J., 2015, The time-transgressive demise of the African Humid Period, *Nature Geoscience* **8**, 140-144.
81. *Bertrand, S., Hughen, K., Sepulveda, J., Pantoja, S., 2014, Covariability of precipitation seasonality and sea surface temperature in northern Chilean Patagonia during the late Holocene, *Quaternary Science Reviews* **105**, 195-208.
80. *Fornace, K.L., Hughen, K.A., Shanahan, T.M., Fritz, S.C., Baker, P.A., Sylva, S.P., 2014, A 60,000-year record of hydrologic variability in the Central Andes from the hydrogen isotopic composition of leaf waxes in Lake Titicaca sediments, *EPSL* **408**, 263-271.
79. *Bolton, A., Goodkin, N., Hughen, K., Ostermann, D., Vo, S., Phan, H., 2014, Paired *Porites* coral Sr/Ca and $\delta^{18}\text{O}$ from the western South China Sea: Proxy Calibration of Sea Surface Temperature and Precipitation, *Paleo* **410**, 233-243.
78. Hughen, K., 2014, Marine Varves, In: *Encyclopedia of Scientific Dating Methods*, Eds., Rink, J., Thompson, J., Springer, DOI 10.1007/978-94-007-6326-5_162-1.
77. *Hauff, B., Cervino, J.M., Haslun, J.A., Krucher, N., Wier, A.M., Mannix, A.L., Hughen, K.A., Strychar, K.B., 2014, Genetically divergent *Symbiodinium* spp. display distinct molecular responses to pathogenic *Vibrio* and thermal stress, *Diseases of Aquatic Organisms* **112**, 149-159.
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69. Bayer, T., Neave, M., Hussain, A., Aranda, M., Yum, L., Mincer, T., Hughen, K., Apprill, A., Voolstra, C., 2013, The microbiome of the Red Sea coral *Stylophora pistillata* is dominated by tissue-associated *Endozoicomonas* bacteria, *Applied & Environmental Microbiology*, doi:10.1128/AEM.00695-13.
68. Lamborg, C.H., Swarr, G., Hughen, K., Jones, R.J., Birdwhistell, S., Furby, K., Murty, S., Prouty, N., Tseng, C.-H., 2013, Determination of low-level mercury in coralline aragonite by calcination-isotope dilution-inductively coupled plasma-mass spectrometry and its application to *Diploria* specimens from Castle Harbour, Bermuda, *Geochimica et Cosmochimica Acta* **109**, 27-37.
67. *Shanahan, T., Hughen, K., Sauer, P., Ampel, L., Fornace, K., 2013, Environmental controls on the D/H values of terrestrial leaf waxes in the Eastern Canadian Arctic, *Geochimica et Cosmochimica*

- Acta*, doi:10.1016/j.gca.2013.05.032.
66. *Kneeland, J., Hughen, K., Cervino, J., Hauff, B., Eglinton, T., 2013, Lipid biomarkers in *Symbiodinium* dinoflagellates: new indices of thermal stress, *Coral Reefs*, doi: 10.1007/s00338-013-1076-3.
 65. *Prouty, N., Goodkin, N., Lamborg, C., Jones, R., Hughen, K., 2013, Environmental Assessment of Metal Exposure to Corals Living in Castle Harbour, Bermuda, *Marine Chemistry*, doi:10.1016/j.marchem.2013.05.002
 64. *Bertrand, S., Hughen, K., Giosan, L., 2013, Limited influence of sediment grain-size on elemental XRF core scanner measurements, In: *Micro-XRF Studies of Sediment Cores*, Developments in paleoenvironmental research series, Springer.
 63. Apprill, A., Hughen, K., Mincer, T., 2013, Species-specificity and not lesioned condition influences the bacterial communities associated with *Fungiidae* corals, *Environmental Microbiology*, doi:10.1111/1462-2920.12107.
 62. Deplazes, G., Lückge, A., Peterson, L.C., Timmermann, A., Hamann, Y., Hughen, K.A., Röhl, U., Laj, C., Cane, M.A., Sigman, D.M., Haug, G.H., 2013, Response of tropical rainfall variability to North Atlantic climate during the last ice age, *Nature Geosciences* **6**, 213–217, doi:10.1038/ngeo1712.
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 59. Hughen, K.A., Zolitschka, B., 2012, Marine Varved Sediments, In: *Encyclopedia of Quaternary Sciences*, 2nd Edition, Ed., Elias, S., Elsevier.
 58. *Bertrand, S., Hughen, K., Sepulveda, J. and Pantoja, S., 2012, Geochemistry of Surface Sediments from the Fjords of Northern Chilean Patagonia (44–47° S): Spatial Variability and Implications for Paleoclimate Reconstructions, *Geochimica et Cosmochimica Acta* **76** (1), 125–146.
 57. Goodkin, N., Druffel, E., Hughen, K., Doney, S., 2012, Two Centuries of Limited Variability in Subtropical North Atlantic Thermocline Ventilation, *Nature Communications* (doi: 10.1038/ncomms1811).
 56. *Bertrand, S., Hughen, K., Lamy, F., Fernandez, R., Anderson, J., Wellner, J., Stuut, J., Torrejon, F., Lange, C., 2012, Precipitation as the main driver of Neoglacial fluctuations of Gualas glacier, Northern Patagonian Icefield, *Climate of the Past* **8**, 1–16, doi:10.5194/cp-8-1-2012.
 55. Talamo, S., Hughen, K., Kromer, B., Reimer, P., 2012, Debates over Paleolithic Chronology – the Reliability of ¹⁴C is Confirmed, *Journal of Archeological Science* **39**, 2464–2467.
 54. Wang, B.-S., Goodkin, N.F., Angeline, N., Switzer, A., You, C.F. and Hughen, K., 2011, Temporal Distributions of Anthropogenic Al, Zn and Pb in Hong Kong *Porites* Coral During the Last Two Centuries, *Marine Pollution Bulletin* **63**, 508–515.
 53. Goodkin, N., Switzer, A., McCorry, D., DeVantier, L., True, J., Hughen, K., Angeline, N., Yang, T.-T., 2011, Long-Lived Corals Provide Age Indication for Coral Communities in Hong Kong, *Marine Ecological Progress Series* **426**, 185–196.
 52. Turney, C., Fifield, L.K., Hogg, A., Palmer, J., Hughen, K., Baillie, M., Galbraith, R., Ogden, J., Lorrey, A., Tims, S., Jones, R., 2010, Using New Zealand Kauri (*Agathis australis*) to Test Synchronicity of Abrupt Climate Change during the Last Glacial Interval (60,000 to 11,000 years ago), *Quaternary Science Reviews* **29**, 3677–3682.
 51. Santos, G.M., Southon, J.R., Drenzek, N.J., Ziolkowski, L.A., Druffel, E., Xu, X., Zhan, D., Trumbore, S., Eglinton, T.I., Hughen, K.A., 2010, Blank assessment for ultra-small samples: chemical extraction and separation vs. AMS, *Radiocarbon* **52**(3), 1322–1335.
 50. *Sepúlveda, J., Pantoja, S., Hughen, K.A., 2011, Sources and distribution of organic matter in northern Patagonia fjords, Chile (~44–47°S): A multi-tracer approach for carbon cycling assessment, *Continental Shelf Research* **31**, 315–329.
 49. *Makou, M., Eglinton, T., Oppo, Hughen, K., 2010, Post-Glacial Changes in El Niño and La Niña

- Coupled Behavior, *Geology* **38**, 43-46, doi: 10.1130/G30366.1.
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 45. *Drenzek, N., Hughen, K., Southon, J., Dos Santos, G., Druffel, E., Giosan, L., Eglinton, T., 2009, A New Look At Old Carbon: Molecular ^{14}C Analysis Of Episodic Flood Deposition On The Eel River Margin, *Geology* **37**, 239-242.
 44. *Sepúlveda, J., Pantoja, S., Hughen, K.A., Bertrand, S., Figueroa, D., Leon, T., Drenzek, N., Lange, C., 2009, Late Holocene temperature and precipitation variability in Northern Patagonia-Chile: (Jacaf fjord, 44°S) *Quaternary Research* doi:10.1016/j.yqres.2009.06.010.
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 38. *Goodkin, N. F., Hughen, K. A., Curry, W., Doney, S., Ostermann, D. R., 2008a, Sea Surface Temperature and Salinity Variability at Bermuda during the End of the Little Ice Age, *Paleoceanography* **23**, doi:10.1029/2007PA001532.
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29. Hughen, K.A., Southon, J.A., Lehman, S.J., Bertrand, C.J.H., Turnbull, J., 2006, Marine-Derived ^{14}C Calibration and Activity Record for the past 50,000 Years Updated from the Cariaco Basin, *Quaternary Science Reviews* **25**, 3216-3227.
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14. Haug, G.H., Hughen, K.A., Sigman, D.M., Peterson, L.C., Röhl, U., 2001, A Marine Record of Holocene Climate Events in Tropical South America, *Science* **293**, 1304-1308.
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10. Hughen, K.A., Overpeck, J.T., Anderson, R.F., 2000, Recent Warming in a 500-Year Paleotemperature Record from Varved Sediments: Upper Soper Lake, Baffin Island, Canada, *The Holocene* **10**, 9-19.

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<ftp://ftp.ncdc.noaa.gov/pub/data/paleo/coral/atlantic/bermuda2008.txt>

<ftp://ftp.ncdc.noaa.gov/pub/data/paleo/coral/atlantic/goodkin2010nao.txt>

Radiocarbon Calibration and Carbon Cycle

<http://www.ncdc.noaa.gov/paleo/pubs/hughen1998/>

<http://www.ncdc.noaa.gov/paleo/pubs/hughen2000/hughen2000.html>

<http://www.ncdc.noaa.gov/paleo/pubs/hughen2004/hughen2004.html>
https://www.ncdc.noaa.gov/cdo/f?p=519:1:0:::P1_STUDY_ID:5953

High-Latitude Paleotemperature

<http://www.ncdc.noaa.gov/paleo/sciencepub/front.htm>
<http://www.ncdc.noaa.gov/paleo/arctic/summary.php>
ftp://ftp.ncdc.noaa.gov/pub/data/paleo/paleolimnology/northamerica/canada/baffin/soper_2000.txt
ftp://ftp.ncdc.noaa.gov/pub/data/paleo/paleolimnology/northamerica/canada/baffin/donard_2001.txt
ftp://ftp.ncdc.noaa.gov/pub/data/paleo/contributions_by_author/sepulveda2009/sepulveda2009.txt

Paleoclimate Data and Age Models

ftp://ftp.ncdc.noaa.gov/pub/data/paleo/contributions_by_author/hughen1996/
ftp://ftp.ncdc.noaa.gov/pub/data/paleo/contributions_by_author/haug2001/
<http://www.ncdc.noaa.gov/paleo/pubs/lea2003/lea2003.html>
ftp://ftp.ncdc.noaa.gov/pub/data/paleo/paleocean/sediment_files/complete/odp1002h-tab.txt
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