CURRICULUM VITAE

KONRAD ALLEN HUGHEN
Associate Scientist with tenure
Marine Chemistry and Geochemistry
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EDUCATION:

Ph.D.: University of Colorado, Boulder - Geological Sciences; August 1997
B.A.: University of California, Santa Cruz - Biology and Geology double major; May, 1991

PROFESSIONAL EXPERIENCE:

Associate Scientist with tenure, Marine Chemistry and Geochemistry, WHOI, May 2007 to present
Associate Scientist, Marine Chemistry and Geochemistry, WHOI, March 2004 to May 2007
Assistant Scientist, Marine Chemistry and Geochemistry, WHOI, February 2000 to March 2004
Research Scientist, INSTAAR, CU Boulder, September 1999 to January 2000
Postdoctoral Fellow, Harvard University, September 1997 to August 1999
Research Assistant, INSTAAR, CU Boulder, September 1991 to August 1997
Teaching Assistant, Geological Sciences, CU Boulder, September 1991 to August 1992

AWARDS:

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
Explorer's Club Research Grant, 1994
Univ. of Colorado Doctoral Fellowship, 1991

PROFESSIONAL AFFILIATIONS:

American Geophysical Union, American Quaternary Association, Divers Alert Network

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.

PROFESSIONAL ACTIVITIES:

WHOI (Non Education Related):

Fellow, Oceans and Climate Change Institute (2001-2003)
Chair, MCG Safety Committee (2010-present)
Chair, Mentoring Committee for MCG Assistant Scientist Marco Coolen (2006-present)
Mentoring Committee for MCG Assistant Scientist Laura Robinson (2006-2010)
Oceans and Climate Change Institute Advisory Committee (2009-present)
Postdoctoral Scholar Selection Committee (2008-2010)
MCG Postdoctoral Mentorship Committee (2007-present)
WHOI Institution Safety Committee (2010-present)
MCG Safety Committee (2004-2010)
WHOI Staff Committee (2009-2011)
Benefits Task Force Committee (2005)
Summer Student Fellow selection committee (2001-2003)
Convenor, INTCAL04 Radiocarbon Calibration Working Group, WHOI (2003)

Science Partner in Trustee-Scientist Partnership Program (2003-present)
Audio Slideshow Interview, WHOI Oceanus Magazine (2010)
Presentations to Science Journalism Fellows (2002, 2007, 2010, 2011), WHOI Associates (2002, 2005, 2007, 2009), U.S. Congressman Wayne Gilchrest (2002)

Outside WHOI (Other than attendance at Meetings):
Editorial Board, *Encyclopedia of Quaternary Sciences*, Sediment Dating Methods Section (2005-present)
NOAA Climate and Global Change Postdoctoral Selection Committee (2011-present)
Scientific Steering Committee, SEARCH (Study of Environmental Arctic Change) (2002-2010)
Councilor, American Quaternary Association (2002-2008)
Chair, PARCS (Paleoenvironmental Arctic Science) High-Resolution Working Group (2002-2010)
Co-chair, INTCAL Radiocarbon Calibration Working Group (2002-present)
Convener, Session on Marine ^{14}C, 19th Int'l Radiocarbon Conf., Oxford, UK, Apr. 2-6 (2006)
Organizing Committee, 19th International Radiocarbon Conference (Apr 2006)
Co-convener, Session on Organic Geochemical Response to Abrupt Climate Change, AGU Ocean Sciences, Honolulu HA, Feb. 20-24 (2006)
Panel Member, 2nd NSF ARCSS All-Hands Workshop, Seattle, WA (Feb., 2002); International Conference on Paleoceanography, Lisbon, Portugal (1998)
Instructor, Swiss Climate Summer School, Bern, Switzerland, (1999)
Honor's thesis panels for two undergraduates, Bates College, ME (2003)
Thesis committee, Briana Hauf, Texas A&M Univ. (2009-2010); Angela Richards-Dona, Stony Brook Univ. (2009-present); Tim Shanahan Univ. of Ariz. (2002-2006);Julio Sepulveda, Univ. of Concepcion, Chile (2002-2004)
Newspaper/magazine interviews, *Washington Post, San Francisco Chronicle, Daily Telegraph (UK)* (2007), *New Yorker* (2006)*, Associated Press* (2003), *Tucson Citizen* (2001)
Television interviews, *The History Channel* (2006), *NOVA/ABC* (2003)
Radio interviews, *NPR Our Ocean World* (Jan 2006), (Oct, Nov 2004)
Journal editorial interviews, *Geotimes* (2007), *Science* (2006, 2003), *Scientific American* (2004), *GSA Today* (2003)
Reviewer, research proposals for NSF Geosciences (Divisions OCE, EAR, and ATM) and Office of Polar Programs, NOAA Climate Change Data and Detection
Reviewer, research proposals for NERC-UK; Research Council of Norway; CONICYT, FONDECYT Chile, EuroClimate, ESF; CFCAS, Canada
Reviewer, manuscripts for *Science, Nature, Geology, PNAS*, *GRL, GCA, EPSL, QSR, Rev. Geophys., Paleoceanography, Deep-Sea Research*, *Journal of Hydrology, Arctic and Alpine Research*.

PARTICIPATION IN WHOI EDUCATION PROGRAM:
Co-Instructor, Arctic System Course (2007)
Co-Instructor, Marine Chemistry Seminar (2002-2004)
Postdoctoral Advisor, Sean Bryan, WHOI Postdoctoral Scholar (2011-2012); Linda Ampel, Swedish Science Foundation Fellow (2010-2011); Amy Apprill, WHOI Postdoctoral Scholar (2010-2011); Timothy Shanahan, NOAA Climate and Global Change Postdoctoral Fellow (2006-2008); Sebastien Bertrand, BAEF Postdoctoral Fellow and Marie Curie OIF Postdoctoral Fellow (2005-2008); Nick Drenzek, WHOI Postdoctoral Investigator (2007); Nancy Grumet-Prouty, WHOI CICOR Postdoctoral Scholar (2004-2007); Pascale Poussart, WHOI NOSAMS Postdoctoral Scholar (2004-2006)
Thesis advisor, MC&G student Kyrstin Fornace (2010-present); MC&G student Whitney Bernstein (2008-present); MC&G student Jessie Kneeland, (2006-2011); MC&G student Nick Drenzek (2002-2007); MC&G student Nathalie Goodkin (2002-2007); G&G student Matt Makou (2000-2005)
Thesis committee, G&G student Kristy Dahl (2002-2005); G&G student David Lund (2001)
Advisor, Summer Student Fellow Sujata Murty, Oberlin College (2010, 2011); Summer Student Fellow Pam Barrett, Univ. Rochester (2005); Summer Student Fellow Huei-Ting Lin, Taiwan National Univ. (2002)

Host, Guest Student Sujata Murty, Oberlin College (2011); Guest Student Ryan Davis, Falmouth Academy (2010, 2011); Guest Student Paul Bergin, New York Catholic School (2010); Guest Student Briana Hauf, Texas A&M Univ. (2009); Guest Student Linda Ampel, Stockholm Univ. (2006); Guest Student Jerome Kaiser, Univ. Potsdam (2005), Guest Student Peter Huybers, MIT (2002-2004); Guest Student Cris Barbero, Tufts University (2002)
Lecturer, Summer Student Lecture Series (2000, 2003, 2011)
Postdoctoral Scholar Selection Committee (2008-2010)
MCG Postdoctoral Mentorship Committee (2007-present)
Summer Student Fellow selection committee (2001-2003)

SUPERVISION AT WHOI:

James Cervino, Guest Investigator (2007-present)
Sean Sylva, Research Associate III (2008-present)
Justin Ossolinski, Research Assistant III (2007-present)
Kathryn Furby, Research Assistant II (2008-2010)
Chanda Bertrand, Research Assistant III (2001-2006).
Marley Bice, part-time employee (2004-2005)
Li Xu, Research Associate III (2001-2003)
Louise Hildebrant, visiting scientist (Fall 2001)
Marcie Workman, Research Assistant I (Fall 2001)

FIELD EXPERIENCE/CRUISE PARTICIPATION:

Co-Chief Scientist, May 5-15, 2011, Luzon Island, Philippines – Coral ecological survey and reconnaissance for long core drilling.
Co-Chief Scientist, Feb. 28-Mar. 8, 2011, Hon Tre Island, Nha Trang, Vietnam – Coral long-core drilling and tissue and water sampling.
Chief Scientist, Sept. 1-15, 2010, Jeddah to Tiran, Red Sea, Saudi Arabia – Coral long-core drilling and tissue and water sampling, coral ecological transects.
Co-Chief Scientist, Aug. 9-13, 2010, Hon Tre Island, Nha Trang, Vietnam – Coral ecological survey and reconnaissance for long core drilling.
Chief Scientist, June 12-14, 2010, Florida Keys National Marine Sanctuary – Coral tissue sampling and ecological survey.
Chief Scientist, May 17-June 2, 2010, Yanbu to Tiran, Red Sea, Saudi Arabia – Coral tissue and water sampling, coral ecological transects.
Chief Scientist, Aug 4-15, 2009, Tukangbesi Islands, SE Sulawesi, Indonesia – Coral tissue and water sampling, coral ecological survey.
Co-chief Scientist, June 8-19, 2009, Jeddah to Al Lith, Red Sea, Saudi Arabia – Coral tissue and water sampling, coral ecological transects.
Co-chief Scientist, Apr 3-10, 2009, Florida Keys National Marine Sanctuary – Coral tissue sampling and ecological survey.
Chief Scientist, Nov. 11-25, 2008, Yanbu to Jeddah, Red Sea, Saudi Arabia – Coral long-core drilling and tissue and water sampling, coral ecological transects.
Co-chief Scientist, May 16 – June 1, 2008, Yanbu to Jeddah, Saudi Arabia – Ecological survey and sampling of corals for geochemical analysis.
July 16-19, 2007, Jeddah, Saudi Arabia – Survey and mapping of corals for future drilling.
Chief Scientist, Oct. 1-15, 2009, Jeddah to Al Lith, Red Sea, Saudi Arabia – Coral long-core drilling and tissue and water sampling, coral ecological transects.
Chief Scientist, Feb 8-13, 2007, Key West Harbor, Looe Key, Florida – Coral sampling and survey with SCUBA.
Chief Scientist, Oct. 19-27, 2006, Glovers Reef Atoll, Belize – Coral mapping and temperature logger install with SCUBA.

Chief Scientist, June 27-July 12, 2006, Bay Islands, Honduras – Coral coring with SCUBA on Cayos Cochinos and Utila Islands.
Jan. 16-22, 2006, Liquid Jungle Lab, Panama – Coral survey with SCUBA on Coiba Island.
Mar. 4-7, 2005, Liquid Jungle Lab, Panama – Coral survey with SCUBA on Isla Canales de Tierra and surrounding islands.
Co-chief Scientist, Nov. 7-14, 2004, Bermuda - Sediment coring and vegetation sampling in Mangrove Lake and surrounding transects.
Chief scientist, May 21-28, 2004, *R/V Hermano Gines*, Punta de Piedras, Venezuela - Sediment coring, vegetation and water sampling in Cariaco Basin.
Co-chief scientist, Sept. 2-9, 2003, *R/V Clifford Barnes*, Seattle, WA - Sediment coring and water sampling in Saanich Inlet.
Co-chief scientist, Nov. 9-28, 2001, *R/V Vidal Gormaz* Puerto Montt, Chile - Southern fjord sediment coring and surface transect sampling.
May 25-June 13, 2001, *R/V New Horizon*, San Francisco, CA to San Diego, CA - Sediment coring and water sampling in the near-shore and along river delta transects.
2 seasons, 1997-1998, Sulawesi, Indonesia, Carbonate platform geology/Fossil coral coring.
8 seasons, 1991-1998, Baffin Island, Canada, Glacial geology/Lake sediment coring.

INVITED PRESENTATIONS AND LECTURES

- Hughen, K., Corals as Recorders of Environmental Stress and Coral Health, (**Hughen invited talk**), School of Biological Sciences, University of Hong Kong, March 7, 2011.
- Hughen, K., Buck, C., Reimer, P., Southon, J., Blackwell, P., Bard, E., Beck, J. W., Edwards, R. L., Guilderson, T., Kromer, B., Ramsey, C., Reimer, R., Richards, D., van der Plicht, J., Weyhenmeyer C., 2008, Update and extension of the IntCal04 14C calibration back to 55 ka, (**Hughen invited talk abstract**) 5th International Radiocarbon and Archaeology Symposium, Zurich Switzerland, March 26-28, 2008.
- Hughen, K., Reducing and Representing Uncertainties in High-Resolution Proxy Data: Marine Sediments, (**Hughen invited talk**) NSF/NOAA Reducing Proxy Uncertainty Workshop, Trieste IT, June 9-11, 2008
- Hughen, K., Red Sea Coral Reef Ecosystem Research", (**Hughen invited talk**) KAUST Global Research Partners Symposium, Jeddah KSA, May 29, 2008.
- Hughen, K., ^{14}C Calibration and Marine Reservoir Age Variability back to 55 ka, (**Hughen invited talk**) ESF EuroClimate Spring School, Piran Slovenia, Apr. 21-25, 2008.
- Hughen, K., Varved Sediment: Part I, (**Hughen invited talk**) ESF EuroClimate Spring School, Piran Slovenia, Apr. 21-25, 2008.
- Hughen, K., Lipid Bomarkers in Coral Symbionts, Host Tissue and Aragonite Skeleton: Potential for a new Index of Coral Thermal Stress, (**Hughen invited talk**) NOAA Climate and Global Change Summer Institute, Steamboat Springs CO, July 13-17, 2008.
- "Global ^{14}C Activity Over the Past 50 ka: Implications for Reservoir Age and Carbon Cycle Changes", *17th Int'l Quaternary Association Congress*, Cairns, Australia, July 28-August 3, 2007.
- "Intcal04 Update: A Preliminary Extension Of The ^{14}C-Calendar Age Curve Back To 50 Ka", *EGU General Assembly*, Vienna, Austria, Apr. 15-18, 2007.
- "Marine ^{14}C Calibration Over the Past 50 ka: Current Status and Future Challenges", *EuroClimate Workshop*, Heidelberg, Germany, March 5-7, 2007.
- "Marine ^{14}C Calibration and Activity Record for the Past 50,000 Years from the Cariaco Basin", 2nd Carlsberg Dating Conference, Copenhagen, Denmark, Nov. 15-17, 2006.
- Keynote address, "Marine ^{14}C Data Sets: Contributions to calibration and Earth Systems research" *19th International Radiocarbon Conference*, Oxford, UK, Apr. 2-6, 2006.

- "Millennial Scale Variability in Tropical South American Vegetation During the Last Glaciation" *AGU Fall Meeting*, S.F., CA, Dec. 2005
- "Cariaco Basin Update: A Revised ^{14}C Calibration 0-60 ka" *Carlsberg Dating Conference*, Copenhagen, Denmark, Aug. 15-18, 2005.
- Plenary talk, "Arctic Paleoclimate research: Goals and Future Needs for SEARCH Science" *SEARCH Implementation Workshop*, Wash. DC, May 23-25, 2005.
- "Terrestrial Plant Biomarkers Record Abrupt Tropical Vegetation Response to Rapid Climate Changes" Univ. S. Florida, St. Petersburg, FL, Apr. 22, 2005.
- "Synchronous Deglacial Climate Shifts in Tropical and High-Latitude N. Atlantic Regions: The Timing of Tropical Vegetation Response to Rapid Climate Changes" Univ. Arizona, Tucson, AZ, Apr. 14, 2005.
- "Linking vegetation and climate change in northern South America during the Late Holocene" *Workshop on Climate and Cultural History in the Americas*, Centro Ecológico de Akumal, Quintana Roo, México, Mar. 30-Apr. 2, 2005.
- "The Timing of Rapid Tropical Vegetation Shifts Following Abrupt Climate Changes" Earth and Ocean Sciences Division, Duke Univ., Durham, NC, Jan. 14, 2005.
- "Terrestrial Plant Biomarkers Preserved in Cariaco Basin Sediments: Records of Abrupt Tropical Vegetation Response to Rapid Climate Changes" *AGU Fall Meeting*, S.F., CA, Dec. 2004.
- "Abrupt Tropical Vegetation Change During Deglaciation: Identifying Synchronous Climate Shifts at High and Low Latitudes", Dept. of Earth Sciences, Syracuse Univ. Syracuse, NY (Dec. 2004).
- "Growth-Dependent Sr/Ca-SST Calibration in Slow-Growing Brain Corals from Bermuda", Dept. of Earth Sciences, Syracuse Univ. Syracuse, NY (Dec. 2004).
- "Abrupt Tropical Vegetation Response to Rapid Climate Changes", Univ. of Mass., Dartmouth, (Apr. 2004)
- "Tolkienesque Tales: A decade-worth of fantasy presented in 3 acts" or "Synchronous high and low-latitude North Atlantic climate change during the last deglaciation", MIT Geochemistry Seminar (Apr. 2004)
- "Summer Surface Temperature and Arctic Oscillation Variability for the Past 600 Years", Harvard Univ. Earth Sciences Dept. (Apr. 2004)
- "Abrupt Tropical Vegetation Response to Rapid Climate Changes", Univ. of Minn., Earth Sciences Dept. (Mar. 2004)
- "^{14}C Calibration and Carbon Cycle from 0-50 ka", Univ. of Minn., Earth Sciences Dept. (Mar. 2004)
- Keynote address – John Wiley Lecture, "Synchronous High and Low-Latitude North Atlantic Climate Change during the Last Deglaciation", *Quaternary Research Association and Geological Society of London Annual Meeting*, University of Wales, Bangor (Jan. 2004).
- Keynote address, "Summer-Season Arctic Oscillation and Surface Temperature for the Past 6 Centuries", *SEARCH Open Science Meeting*, Seattle, WA (Oct. 2003).
- "^{14}C Activity and Global Carbon Cycle Changes Back to 50,000 Years BP", *Heinrich Events and Sea Level Symposium*, LDEO, NY (Oct 2003).
- "Synchronous High And Low-Latitude North Atlantic Climate Change During The Last Deglaciation", *16th INQUA Congress*, Reno, NV (July 2003).
- "Spatial And Temporal Modes Of Variability In Arctic Summer Temperature During The Past 500 Years", *16th INQUA Congress*, Reno, NV (July 2003).
- "Multiple Proxy Records of Abrupt Climate Changes", WHOI Science Journalism Fellows Lecture, (Sept. 2002).

- "Synchronous Timing of Abrupt Paleoclimate Changes Between High and Low-Latitude Atlantic Regions", *6th INTIMATE IGCP Pages*, Tromso, Norway (June, 2002).
- "High-resolution Radiocarbon Calibration from 15-9 cal kyr BP", *INTCAL04 ^{14}C Calibration Workshop*, Queen's University, Belfast, N. Ireland (April 2002).
- "^{14}C Calibration from 0-50 cal kyr BP, using Cariaco Basin Sediments and the GISP2 Time Scale", *INTCAL04 ^{14}C Calibration Workshop*, Queen's University, Belfast, N. Ireland (April 2002).
- "Paleoclimate Records from Organic Biomarkers", Trinity College, Dublin, Ireland, Geogr. Dept. (April 2002).
- "Spatial and Temporal Variability of Arctic Surface Temperature over the Last 400 Years", *2nd NSF ARCSS All-Hands Workshop*, Seattle, WA, (Feb. 2002).
- "Synchronous Tropical-High Latitude Paleoclimate Changes during the Last Deglaciation", *Fall AGU*, San Francisco, CA, (Dec. 2001).
- Boston University, Earth Sciences Dept. (2001).
- Bates College, Geology Dept. (2001).
- *Spring AGU*, Boston, MA (2001).
- *Fall AGU*, S.F., CA (2000).
- *SCOR-IMAGES Workshop*, Trins, Austria (2000).
- Univ. S. Carolina Columbia, Geology Dept. (1999).
- Plenary talk, *15th INQUA Cong.*, Durban, S. Africa (1999).
- Brown Univ., Geology Dept. (1998).
- Plenary talk, *15th AMQUA Cong.*, Puerto Vallarta, Mexico (1998).
- *10th ARCUS Meeting*, Wash. DC (1998).
- Univ. Mass. Amherst, Geosciences Dept. (1998).
- *1st INTIMATE IGCP Pages*, Lund, Sweden (1997).
- LDEO Climate Symposium (1997).
- *16th Radiocarbon Conf.*, Groningen, Netherlands (1997).
- Princeton Univ., GFDL (1997).
- *7th Goldschmidt Conf.*, Tucson, AZ (1997).
- *4th IGCP 374*, The Royal Society, London (1996).
- *3rd IGCP 374*, U.C. Santa Barbara, CA (1995).
- *1st IGCP 374*, The Geological Society, London (1993).

PAPERS IN REFEREED JOURNALS AND BOOKS (*denotes first-authored papers by a student or post-doc)

Furby, K., Apprill, A., Cervino, J., Ossolinski, J. and Hughen, K., Controls on lesions associated with Fungiidae corals in the eastern Red Sea, *Mar. Ecol. Prog. Ser.* (in prep).

*Kneeland, J., Cervino, J., Eglinton, T and Hughen, K., Lipid biomarkers in coral aragonite and *Symbiodinium* dinoflagellates: potential for a new index of coral heat stress, *Proc. Nat. Acad. Sci.* (submitted).

*Bertrand, S., Hughen, K., Lamy, F., Fernandez, R., Anderson, J., Wellner, J., Stuut, J., Torrejon, F. and Lange, C., Precipitation as the main driver of Neoglacial fluctuations of Gualas glacier, Northern

Patagonian Icefield, *Climate of the Past* (submitted).

Goodkin, N., Druffel, E., Hughen, K. and Doney, S., Two Centuries of Limited Variability in Subtropical North Atlantic Thermocline Ventilation, *Nature Geosciences* (submitted).

Reimer, P. (Hughen, K., and 18 others), Creating radiocarbon calibration quality data: an update to the international calibration (IntCal) criteria, *Radiocarbon* (in press).

*Bertrand, S., Hughen, K., Sepulveda, J. and Pantoja, S., Geochemistry of Surface Sediments from the Fjords of Northern Chilean Patagonia (44-47˚ S): Spatial Variability and Implications for Paleoclimate Reconstructions, *Geochem. Cosmochem. Acta* (in press).

Hughen, K.A., Marine Varved Sediments, In: *Encyclopedia of Quaternary Sciences*, *2nd Edition*, Ed., Elias, S., Elsevier (in press).

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, *Mar. Poll. Bull.* 63, 508-515.

Goodkin, N., Switzer, A., McCorry, D., DeVantier, L., True, J., Hughen, K., Angeline, N. and Yang, T.-T., 2011, Long-Lived Corals Provide Age Indication for Coral Communities in Hong Kong, *Mar. Ecol. Prog. Ser.* 426, 185-196.

Turney, C., Fifield, L.K., Hogg, A., Palmer, J., Hughen, K., Baillie, M., Galbraith, R., Ogden, J., Lorrey, A., Tims, S. and 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), *Quat. Sci. Rev*. 29, 3677-3682.

Santos, G.M., Southon, J.R., Drenzek, N.J., Ziolkowski, L.A., Druffel, E., Xu, X., Zhan, D., Trumbore, S., Eglinton, T.I. and Hughen, K.A., 2011, Blank assessment for ultra-small samples: chemical extraction and separation vs. AMS, *Radiocarbon* (in press).

*Sepúlveda, J., Pantoja, S. and 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.

*Makou, M., Eglinton, T., Oppo, and Hughen, K., 2010, Post-Glacial Changes in El Niño and La Niña Coupled Behavior, *Geology* 38, 43-46, doi: 10.1130/G30366.1.

*Carilli, J, Prouty, N., Hughen, K., and Norris, R., 2009, Century-scale records of land-based activities recorded in Mesoamerican coral cores, *Marine Pollution Bulletin* 58 (12): 1835-1842.

Reimer, P.J. (Hughen, K and 26 others), 2009, Intcal09 and Marine09 Radiocarbon Calibration Curves, 0-50,000 Years Cal BP, *Radiocarbon* 51, 1111-1150.

Blaaw, M., Wohlfarth, B., Christen, A., Ampel, L., Veres, D., Hughen, K., Preusser, F., Svensson, A., 2010, Were last Glacial climate events simultaneous between Greenland and western Europe? A quantitative comparison using non-tuned chronologies, *Journal of Quaternary Sciences* 25, 387-394.

*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.

*Sepúlveda, J., Pantoja, S., Hughen, K.A., Bertrand, S., Figueroa, D., Leon, T., Drenzek, N. and 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.

Walker, M., (with Hughen, K. and 17 others), 2009, The Global Stratotype Section and Point (GSSP) and Global Standard Stratigraphic Age (GSSA) for the base of the Holocene Series/Epoch (Quaternary System/Period) in the NGRIP ice core, *Journal of Quaternary Science*, doi: 10.1002/jqs.1227.

*Goodkin, N. F., Hughen, K. A., Doney, S. and Curry, W., 2008b, Increased Multidecadal Variability of the North Atlantic Oscillation Since 1781, *Nature Geoscience* **1**, 844-848, doi:10.1038/ngeo352

Cervino, J., Thompson, F., Gómez-Gil, B., Lorence, E., Goreau, T., Hayes, R., Winiarski, K., Smith, G., Hughen, K. and Bartells, E., 2008, The Vibrio Core Group Induces Yellow Band Disease in Caribbean and Indo-Pacific Reef Building Corals, *Journal of Applied Microbiology* doi:10.1111/j.1365-2672.2008.03871.x.

*Prouty, N.G., Hughen, K.A., and Carilli, J., 2007, Geochemical Signature of Land-based Activities in Caribbean Coral Surface Samples, *Coral Reefs,* doi: 10.1007/s00338-008-0413-4.

*Goodkin, N. F., Hughen, K. A., Curry, W., Doney, S. and 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.

Reimer, P., Hughen, K., 2008, Tree rings floating on ice cores, *Nature Geoscience* 1, 218-219, doi: 10.1038/ngeo167, News and Views.

Rebolledo, L., Sepulveda, S., Lange, C., Pantoja, S., Bertrand, S., Hughen, K. and Figueroa, D., 2008, Marine productivity and late Holocene climate changes in Northern Patagonia during the last 1,800 years inferred from a multi-proxy analysis of Jacaf channel sediments (Chile, 44° S), *Estuarine, Coastal and Shelf Science* doi:10.1016/j.ecss.2008.08.016

*Makou, M., Hughen, K., Xu, L., Sylva, S. and Eglinton, T., 2007, Isotopic Records of Tropical Vegetation and Climate Change from Terrestrial Vascular Plant Biomarkers Preserved in Cariaco Basin sediments, *Organic Geochemistry* 38, 1680-1691.

Tzedakis, P. C., Hughen, K. A., Cacho, I. and K. Harvati, K., 2007, Placing late Neanderthals in a climatic context, *Nature* **449**, 206-208, doi:10.1038/nature06117.

Hughen, K.A., 2007, Radiocarbon Dating of Deep-Sea Sediments, In: *Paleoceanography of the Late Cenozoic Volume 1: Methods*, Eds., Claude Hillaire-Marcel C. & Anne de Vernal, A., Elsevier.

*Goodkin, N. F., Hughen, K. A. and Cohen, A. L., 2007, A Multi-Coral Calibration Method to Approximate a Universal Equation relating Sr/Ca and Growth Rate to Sea Surface Temperature, *Paleoceanography*, doi: 2006PA001312.

Hughen, K.A. and Zolitschka, B., 2007, Marine Varved Sediments, In: *Encyclopedia of Quaternary Sciences*, Ed., Elias, S., Elsevier.

Kerwin, M.W. and Hughen, K.A., 2007, Postglacial Paleoceanographic Records of the North Atlantic Ocean, In: *Encyclopedia of Quaternary Sciences*, Ed., Elias, S., Elsevier.

Hughen, K.A., Southon, J.A., Lehman, S.J., Bertrand, C.J.H. and 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.

Ohkouchi, N., Eglinton, T., Hughen, K., Roosen, E. and Keigwin, L., 2005, Radiocarbon dating of alkenones from marine sediments – III. Influence of solvent extraction procedures on ^{14}C measurements of foraminifera, *Radiocarbon* **47***,* 425-432.

*Goodkin, N., Hughen, K., Cohen, A. and Smith, S., 2005, Record of Little Ice Age Sea Surface Temperatures at Bermuda using a Growth-Dependent Calibration of Coral Sr/Ca, *Paleoceanography* **20**, PA4016.

*Sepúlveda, J., Pantoja, S., Hughen, K., Lange, C., and 10 others, 2005, Fluctuations in export productivity over the last century from sediments of a southern Chilean fjord (44°S), *Estuarine, Coastal and Shelf Science*, **65** 587-600

*Dahl, K. A., Oppo, D. W., Eglinton, T. I., Hughen, K. A., Curry, W. B. and Sirocko, F., 2005, Terrigenous plant wax inputs to the Arabian Sea: Implications for the reconstruction of winds associated with the Indian Monsoon, *Geochimica et Cosmochimica Acta* **69**, 2547-2558.

*Lima, A.L., Hubeny, J. B., Reddy, C. M., King, J. W., Hughen, K. A., Eglinton, T. I., 2005, High-resolution historical records from Pettaquamscutt River basin sediments; 2. Chronology and record of ^{137}Cs released by the Chernobyl accident, *Geochimica et Cosmochimica Acta* **69**, 1803-1812.

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Hughen, K.A., Eglinton, T.I., Xu, L. and Makou, M., 2004b, Abrupt Tropical Vegetation Response to Rapid Climate Changes, *Science* **304**, 1955-1959.

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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

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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

Paleoclimate Data and Age Models
http://www.ncdc.noaa.gov/paleo/pubs/lea2003/lea2003.html
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