Curriculum Vitae

William G. Thompson Phone: (508) 289-2630

Geochronologist /Paleoclimatologist FAX: (508) 457-2175

Associate Scientist Email: wthompson@whoi.edu

Geology and Geophysics

113A Clark Lab, MS #23

Woods Hole Oceanographic Institution

Woods Hole, MA, 02543

**Education**

Ph.D. Paleoclimatology/Paleoceanography, awarded with distinction 2005

Columbia University, Lamont-Doherty Earth Observatory,

Dept. of Earth and Environmental Sciences, Palisades, NY

Dissertation Title: *A 250,000-Year Record of Sea Level and Climate*

 *from Open-System Coral Ages*

Advisors: Steven L. Goldstein, Sidney R. Hemming, Marc W. Spiegelman

Comer Fellowship Mentor: Wallace S. Broecker

M.A. Geology, Wesleyan University 1999

Dept. of Earth and Environmental Sciences, Middletown, CT

Thesis Title: *Sea Level, Climate, and Land Level: Paleoenvironmental*

 *Records from the Farm River Marsh, Branford, CT*

Advisors: Johan C. Varekamp & Ellen Thomas

B.A.Geology, Wesleyan University 1998

##### **Professional Experience**

Associate Scientist, WHOI 2011-present

Assistant Scientist, WHOI 2006 - 2011

Ocean and Climate Change Institute Postdoctoral Scholar, WHOI 2004 - 2006

**Awards**

NOAA/UCAR Postdoctoral Fellowship in Climate and Global Change (declined) 2004

Natural Environment Research Council (UK) Research Fellowship finalist 2004

Student Poster Award, 8th International Conference on Paleoceanography 2004

1st Annual Goodfriend Prize for Paleoclimate Publication, Columbia U. 2004

Comer Abrupt Climate Change Fellowship 2002 – 2004

Faculty Fellow, DEES, LDEO, Columbia University 1999 – 2004

Sigma Xi – The Scientific Research Society, Columbia University 2003

Graduate Fellowship, DEES, Wesleyan University 1998 – 1999

Phi Beta Kappa, Wesleyan University 1998

Etherington Scholarship, Wesleyan University 1996 – 1998

Wesleyan Scholarship**,** Wesleyan University 1996 – 1998

**Professional Affiliations**

Member, American Geophysical Union 1999 – present

Member, Geological Society of America 1999 – present

##### **Research Interests**

My research initiatives focus on U-Th dating of corals in order to establish the links between sea level and climate change over the past 600,000 years. I have focused on improving age interpretation of U-series isotope ratio measurements, and establishing best practices for field sampling, treatment of data, and synthesizing dating and field data into accurate and detailed sea level records.

**Professional Activities**

*WHOI*

ICP-MS Facility Steering Committee (2009-present)

G&G Safety Committee (2009-present)

G&G Chair Search Committee (2012)

##### *Outside WHOI*

##### Speaker, National Network for Ocean and Climate Change Interpretation workshop, Woods Hole, MA (2015)

##### Speaker, National Network for Ocean and Climate Change Interpretation workshop, Woods Hole, MA (2014)

##### Participant, PALSEA2 Workshop: Estimating rates and sources of sea-level change during past warm periods, NZGV, Rome, Italy (2013)

##### Participant, NSF EarthCube domain end-user workshop: Bringing Geochronology into the EarthCube framework, University of Wisconsin, Madison, WI (2013).

##### Speaker, National Network for Ocean and Climate Change Interpretation workshop, Woods Hole, MA (2013)

##### Participant, sea level rise discussion group, Ocean Studies Board, National Research Council, Woods Hole, MA (2012).

##### Keynote Speaker, Mallorca 2012: Sea level changes into MIS 5, Mallorca, Spain (2012)

##### Participant, PALSEA Workshop: Ice sheet-Climate Interactions, Madison, Wisconsin (2012) Participant, Expedition 325 Post-cruise meeting, Heron Island, Australia (2012)

##### Organizer, with Dan Condon and Mary Reid: EARTHTIME Town Hall Meeting on U-series geochronology, Fall AGU, San Francisco, CA (2010)

##### Organizer, with Doug Walker and Dan Condon: EARTHTIME workshop on U-series geochronology, British Geological Survey, Nottingham, UK (2010)

##### Geochronologist, IODP Expedition 325 OSP: Great Barrier Reef (2010)

##### Session chair, PAGES/IMAGES workshop: *Relative sea level, ice sheets, and isostacy; past, present, and future: understanding the implication for human populations*, University of Bristol, UK (2010)

##### Contributor, PAGES workshop on past interglacial climates, Lamont-Doherty Earth Observatory/Columbia University, Palisades, NY (2010)

##### Session Chair, with Eelco Rohling and Peter Clark: *Paleo sea level and paleo ice volume: reconstructions and implications,* Goldschmidt (2010).

##### Organizer, PAGES/IMAGES/Morss Colloquium: *Understanding future sea-level rise:* *the challenges of dating past interglacials*, WHOI (2009)

##### Organizer, PAGES/IMAGES paleo sea-level working group PALSEA (2008-2012)

##### Editor, PAGES sea level special issue (2008-2009)

##### Organizer, with Mark Siddall and Claire Waelbroeck: PAGES/IMAGES sea-level workshop: *Empirical constraints on sea-level rise over the next century*, University of Bern, Switzerland (2008)

##### Contributor, IODP Expedition 310 meeting, Tahiti, (2007)

##### Group co-chair, JOI/IODP/ICDP/DOSECC/Chevron workshop: Drilling to Decipher Long- term Sea-level Changes and Effects, Salt Lake City, Utah, (2007)

##### Session Chair, The inconstant Cryosphere: geochemical evidence for continental ice sheet variations and their link to climate change, Fall AGU (2005).

##### Reviewer: Science, Earth and Planetary Science Letters, Geochemica et Cosmochemica Acta, Quaternary Science Reviews, Journal of Quaternary Science, Geology, Chemical Geology, Geochemical Journal, Geophysical Research Letters, National Science Foundation, National Environmental Research Council (UK).

##### *Public Outreach*

##### Speaker, National Network for Ocean and Climate Change Interpretation workshop, Woods Hole, MA (2014)

##### Speaker, National Network for Ocean and Climate Change Interpretation workshop, Woods Hole, MA (2013)

##### Contributor to *New York Times Dot Earth* discussion (2009. 2010. 2011)

##### Morss Colloquium: *Where land and sea meet: managing shoreline change over the next 100 years*, Woods Hole, MA (2009)

Thompson, W. G. (2009). *How fast could sea level rise?* Woods Hole Partnership Education Program. Sea Education Association, Woods Hole, MA.

Thompson, W. G. (2009). *The physics of climate change*. Sturgis Charter School physics class. Woods Hole Exhibit Center Auditorium.

Thompson, W. G. (2006). *Earth's climate history and the evidence for global warming*. Martin Elementary School, Manchester, CT.

**Participation in Education Program**

## Introduction to Geology and Geophysics (2008-present)

## Columbia University Field Course for Undergraduates, Barbados (2014)

## Columbia University Field Course for Undergraduates, Barbados (2012)

## Geodynamics Seminar (2009)

**Supervision**

Alexa Fredston-Hermann, Smithsonian Tropical Research Institute, Panama (dating for paleoecology 2012)

Michael O’Leary (visiting guest post-doc; lab and field work 2009-2010)

Morten Andersen (guest post-doc; field work 2010)

Sarah Hale, Smith College undergraduate student (field work 2006)

Rachel Herrman, Smith College undergraduate student (field work 2006)

Anne Steward, Wooster College of Ohio undergraduate (field work 2006)

Emily Griffin, Wooster College of Ohio undergraduate (field work 2006)

**Fieldwork Participation**

March 2014: Barbados, West Indies

April 2012: Mallorca, Spain

March 2012: Barbados, West Indies

February 2012: Florida Keys, USA

September 2010: Western Australia

July 2010: IODP Expedition 325 Great Barrier Reef Onshore Science Party

March-April 2010: Barbados, West Indies

June 2009: Barbados, West Indies

August-September 2007: Western Australia

January 2006: San Salvador, Bahamas

March 2006: Great Inagua, Bahamas

July 2005: Barbados, West Indies

**Publications**

*Journal Articles*

Felis, T., H. V. McGregor, B. K. Linsley, A. W. Tudhope, M. K. Gagan, A. Suzuki, M. Inoue, A. L. Thomas, T. M. Esat, W. G. Thompson, M. Tiwari, D. C. Potts, M. Mudelsee, Y. Yokoyama and J. M. Webster (2014). "Intensification of the meridional temperature gradient in the Great Barrier Reef following the Last Glacial Maximum." Nature Communications **5** 1-7.

Fredston-Hermann, A. L., O’Dea, A., Rodriguez, F., Thompson, W. G., Todd J. A. (2013) “Marked ecological shifts in seagrass and reef molluscan communities since the mid-Holocene in the southwestern Caribbean”, *Bulletin of Marine Science* **89**(4) 983-1002.

O’Leary, M. J., Hearty, P. J., Thompson, W. G., Raymo, M. E., Mitrovica, J. X., Webster. J. M*.* “Ice sheet collapse following a prolonged period of stable sea level during the last interglacial” Nature *Geoscience* **6(**9) 796-800.

Thompson, W. G. (2013) “U-series dating.” In Elias S. A. (ed.) The *Encyclopedia of Quaternary Science, Vol 4 pp. 567-571*. Amsterdam: Elsevier.

Thompson, W. G, Curran, H. A., Wilson, M. and White, B. (2011) “Sea-level oscillations during the last interglacial highstand recorded by Bahamas corals”, *Nature Geoscience,* **4**:684-687.

Jackson, C. S., Marchal, O., Liu, Y. and Thompson, W. G. (2010). "A box-model test of the freshwater forcing hypothesis of abrupt climate change." *Paleoceanography* **25** PA4222, doi: 10.1029/2010PA001936.

Chen, M.-T., Lin, X. P., Chang, Y.-P., Chen, Y.-C., Lo, L., Shen, C.-C., Yokoyama, Y., Oppo, D. W., Thompson, W. G., and Zhang, R. (2010). “Dynamic millennial-scale climate change in the Northwestern Pacific over the last 40,000 years. *Geophysical Research Letters* **37**, doi: 10.1029/2010GL045202

Abe-Ouchi, A. et al. (2010). "The sea-level conundrum: case studies from paleo-archives." *Journal of Quaternary Science* **25**: 19-25

Chang, Y.-P., Chen, M.-T., Yokoyama, Y., Thompson, W. G., Kao, S.-J. and Kawahata, H. (2009). "Monsoon precipitation and productivity changes in the East China Sea during the past 100,000 years: Okinawa Trough evidence (MD12404)." *Paleoceanography* **24**, PA3208, doi:10.1029/2007PA001577

Siddall, M., Rohling, E. J., Thompson, W. G. and Waelbroeck, C. (2008). "Marine Isotope Stage 3 sea level fluctuations: Data synthesis and new outlook." *Reviews of Geophysics* **46**, RG4003, doi:10.1029/2007RG000226

Thompson, W. G. (2006). U-series dating. *Encyclopedia of Quaternary Science*. S. A. Elias, Elsevier. **4:** 3099.

Thompson, W. G. and Goldstein, S. L. (2006). "A radiometric calibration of the SPECMAP timescale." *Quaternary Science Reviews* **25**: 3207-3215.

Thompson, W. G. and Goldstein, S. L. (2005). "Open-System Coral Ages Reveal Persistent Suborbital Sea-Level Cycles." *Science* **308**(5720): 401-404.

Thompson, W. G., Spiegelman, M. W., Goldstein, S. L. and Speed, R. C. (2003). "An Open-System model for the U-series age determinations of fossil corals." *Earth and Planetary Science Letters* **210**: 365-381.

Thompson, W. G., Thomas, E. and Varekamp, J. C. (2000). “1500 years of sea level rise in Long Island Sound.” *The Fourth Biennial Long Island Sound Research Conference*.

Varekamp, J. C., Thomas, E. and Thompson, W. G. (1999). "Sea level - climate correlation during the last 1400 years: A comment." *Geology* **27**: 189-190.

*Contributed Articles*

Thompson, W. G., Andersen, M. B., Dutton, A. and Siddall, M. (2010). "Understanding future sea level rise: The challenges of dating past interglacials." *PAGES news* **18**(1): 39-40.

Thompson, W. G. and Andersen, M. B. (2010). "Facilitating progress on the Quaternary history of sea level change." *EOS, Transactions AGU* **91**(17): 155.

Andersen, M. B., Gallup, C. D., Scholz, D., Stirling, C. H. and Thompson, W. G. (2009). "U-series dating of fossil coral reefs: consensus and controversy." *PAGES news* **17**(2): 54-56.

Siddall, M., Clark, P., Thompson, W. G., Waelbroeck, C., Gregory, J. and Stocker, T. (2009). "The sea-level conundrum: insights from paleo studies." *EOS Transactions, AGU* **90**(9).

Siddall, M., Thompson, W. G. and Waelbroeck, C. (2009). "Past ice sheet dynamics and sea level: placing the future in context." *PAGES news* **17**(2): 51-52.

**Invited presentations**

##### Thompson, W. G. *Long term sea level change: what the rock record has to say.* National Network for Ocean and Climate Change Interpretation workshop, Woods Hole, MA (2014)

Thompson, W. G. (2013). *New frontiers in sea level chronologies.* AGU, San Francisco, CA.

Thompson, W. G. (2013). *Resolving sea-level changes during interglacials: Best practices from first principles.* PALSEA2 Workshop Instituto Nazionale di Geofisica e Vulcanologia, Rome, Italy.

##### Thompson, W. G. *Sea level rise: past present and future*. National Network for Ocean and Climate Change Interpretation workshop, Woods Hole, MA (2013)

Thompson, W. G. (2012). Keynote address: *A relative-sea level history for MIS 5 from the coral terraces of Barbados, and a question regarding GIA modeling* Mallorca 2012: Sea level change into MIS 5, Palma de Mallorca, Spain.

Thompson, W. G. (2011). *Deciphering the history of sea-level change with U-Th geochronology.* McGill University, Montreal, Canada.

Thompson, W. G. (2011). *Rapid sea level events in the geological record: U-Th geochronology and rates of change.* Harvard University, Cambridge, MA.

Thompson, W. G. (2010). *New frontiers in coral geochronology: advancing the state of the art.* EGU General Assembly, Vienna, Austria.

Thompson, W. G. (2010). *Compiling coral age data: strategies and pitfalls.* University of Bristol, Bristol, UK.

Thompson, W. G. (2010). *Unstable ice sheets in a warming world: documenting sea level history from the last time it was this warm.* University of Sydney, Sydney, Australia.

Thompson, W. G. (2010). Dating corals: *U-series isotopes in an open system*. EARTHTIME workshop on U-series geochronology. British Geological Survey, Nottingham, UK.

Thompson, W. G. (2009). *Climate linkages during the most recent glacial period: sea level change causes and effects*. Boston University.

Thompson, W. G. (2008). *Millennial-scale sea level change: the paleo-record and future projections*. American Quaternary Association Biennial Meeting. Penn State University.

Thompson, W. G. (2007). *Correcting U-series coral ages: principles and practice*. XVII Congress of the International Union for Quaternary Research. Cairns, Australia.

Thompson, W. G. (2007). *The Barbados record of MIS 11 sea level change: present constraints and future prospects*. INQUA-Morss Workshop on MIS11. Woods Hole, MA.

Thompson, W. G. (2007). *Advances in coral chronostratigraphy*. JOI/IODP/ICDP/DOSECC/Chevron workshop: Drilling to Decipher Long-term Sea-level Changes and Effects. Salt Lake City, Utah.

Thompson, W. G. and Curran, H. A. (2007). *Climate instability during the last interglacial: abrupt sea level events*. Comer Abrupt Climate Change Roundtable. Palisades, NY.

Thompson, W. G. (2006). *Corals, sea level, and abrupt climate change*. University of California Irvine. Irvine, CA.

Thompson, W. G. (2006). *Diagnosing the mechanisms of abrupt climate change*. California State University Fresno. Fresno, CA.

Thompson, W. G. (2006). *Sea level and abrupt climate change, what's the connection?* Wesleyan University. Middletown, CT.

Thompson, W. G. (2006). *Global patterns of abrupt climate change*. Brown University. Providence, RI.

Thompson, W. G. (2005). *Is abrupt climate change confined to glacial intervals?* Comer Abrupt Climate Change Roundtable. Palisades, New York.

Thompson, W. G. (2004). *A 250,000-year high-resolution record of sea level from open-system coral ages*. Boston University. Boston, MA.

Thompson, W. G. (2004). Millennial-scale sea level variability during the Last Interglacial. University of Washington. Seattle, Washington.

Thompson, W. G. and Goldstein, S. L. (2004). *Reconstructing abrupt sea-level changes during interglacial periods: a novel approach to U/Th coral dating*. Comer Abrupt Climate Change Roundtable. Palisades, NY.

Thompson, W. G., Spiegelman, M. W., Goldstein, S. L. and Speed, R. C. (2003). *Improving the accuracy and resolution of the U/Th sea level chronology*. Brown University. Providence, RI.

Thompson, W. G., Spiegelman, M. W., Goldstein, S. L. and Speed, R. C. (2003). *The coral record of sea level change: an alternative view.* NOAA/CORC/ARCHES Sea Level Mini-conference. LDEO, Palisades, New York.

**Papers presented at meetings and other presentations**

Thompson, W. G. (2012) *U-Th dating results from Expedition 325*, Expedition 325 Post-cruise meeting, Heron Island, Australia.

Thompson, W. G., Esat, T. M., Thomas, A. L., Yokoyama, Y., Webster, J. M., and Expedition 325 Scientists (2012) *U-series geochronology for the Last Glacial Maximum Great Barrier Reef: results from Expedition 235*. 12th International Coral Reef Symposium. Cairns, Australia.

Bourillot, R., Seard, C., Camoin, G., Esat, T. M., Thomas, A. L., Thompson, W. G., Yokoyama, Y., Webster, J. M., and Expedition 325 Scientists (2012) *Diagenetic history of the Great Barrier Reef: IODP Expedition 235*. 12th International Coral Reef Symposium. Cairns, Australia.

Webster, J. M., Thomas, A. L., Esat, T. M., Thompson, W. G., Yokoyama, Y., and Expedition 325 Scientists (2012). *IODP Expedition 325 to the Great Barrier Reef: unlocking the history of reef growth and demise since the Last Glacial Maximum*. 12th International Coral Reef Symposium. Cairns, Australia.

Thomas, A. L., Expedition 325 Scientists, Esat, T. M., Thompson, W. G., Yokoyama, Y., Webster, J. M. (2011). *Results from IODP Expedition 325*. Fall AGU. San Francisco, CA.

Thompson, W. G. (2011). *Best practices for ensuring consistent coral geochronology*. Goldschmidt 2011. Prague, Czech Republic.

Hodge, A., Tomiak, P., Andersen, M., Thompson, B., Hendy, E., Penkman, K. (2011). *Establishing the relative chronology of raised reef terraces on Barbados using amino acid racemization in fossilized Acropora palmata corals*. European Geosciences Union General Assembly, Vienna, Austria.

Siddall, M, Rohling, E., Thompson, B., and Dutton, A. (2011). *Implications of our uncertainties on LIG sea level.* Geophysical Research Abstracts **13**, EGU2011-3379.

Thompson, W. G. (2010). *Fluctuating sea levels during the Last Interglacial: termination, oscillation, and glacial inception*. Fall AGU. San Francisco, CA.

Thompson, W. G. (2010). *Strategies for the treatment of coral age data in the reconstruction of sea-level change.* Goldschmidt 2010. Knoxville, TN.

Andersen, M. B., Thompson, W. G., O’Leary, M., Ashton, A., Lohmann, G. P., Curry, W., Lohmann, K. C. (2010). *Barbados revisited: New constraints on sea-level highstands during the last million years*, PALSEA 2010, Bristol, UK

Thompson, W. G. and O'Leary, M. (2010). *The timing of sea level highstands over the last 600,000 years.* EGU General Assembly 2010, Vienna, Austria, Geophysical Research Abstracts.

O'Leary, M. and Thompson, W. G. (2010). *U-series evidence for a brief but widespread interval of coral reef development during MID 5e, Cape Range, Western Australia*. Goldschmidt 2010. Knoxville, TN.

Thompson, W. G. (2009). *Fossil reef stratigraphy, the underutilized constraint*. PAGES/IMAGES/Morss Colloquium: Understanding future sea level rise: the challenges of dating past interglacials. Woods Hole Oceanographic Institution.

Thompson, W. G. (2009). *Pleistocene glacial cycles: the coral record of sea level change*. Geodynamics Seminar Series. Woods Hole Oceanographic Institution.

Thompson, W. G. (2009). *Reducing the impact of U-redistribution and recoil-related effects on U-series coral ages.* PAGES/IMAGES/Morss Colloquium. WHOI.

Thompson, W. G. (2008). *Improving the accuracy and resolution of sea level reconstructions: An example from the Last Interglacial*. PAGES/IMAGES workshop: Empirical constraints on sea level rise over the next century. Bern, Switzerland.

Lu, S., Jackson, C., Marchal, O., Thompson, W. G. and Stocker, T. (2008). *Consistent observational and numerical modeling support for ice sheet forcing of DOI event 8*. Fall AGU.

Lu, S., Jackson, C., Marchal, O., Liu, Y., Thompson, W. G. and Stocker, T. (2007). *Fresh water forcing hypothesis of abrupt climate change: a test of consistency with sea level reconstructions.* Fall AGU. San Francisco, CA.

Siddall, M., Honisch, B., Lear, B., McGee, D., Palike, H., Parekh, P., Rohling, E. J., Thompson, W. G. and Winckler, G. (2007). *Long-term consistencies in the benthic oxygen isotope record between ocean basins*. 9th International Conference on Paleoceanography. Shanghai, China.

Thompson, W. G. (2007). *Abrupt sea level change during the Last Interglacial*. 9th International Conference on Paleoceanography. Shanghai, China.

Thompson, W. G. (2007). *Into and out of the Last Interglacial: the coral record of sea level*. XVII Congress of the International Union for Quaternary Research. Cairns, Australia.

Thompson, W. G. and Cohen, A. (2007). *The Younger Dryas at Tahiti: Initial SIMS ion microprobe results from IODP Expedition 310.* IODP Expedition 310 post-expedition meeting. Tahiti, French Polynesia.

Thompson, W. G. (2006). *Corals, sea level, and climate change*. Woods Hole Oceanographic Institution. Woods Hole, MA.

Thompson, W. G. (2006). *Improving the accuracy of coral ages: correcting for isotopic addition.* SEALAIX '06 Sea Level Changes: Records, Process, and Modeling. Geins, France.

Thompson, W. G. (2006). *The case of the wayward daughters: Why alpha-recoil matters for U-series geochronology.* Woods Hole Oceanographic Institution. Woods Hole, MA.

Thompson, W. G. (2006). *The future of climate change: why history matters*. Dissertation Initiative for the Advancement of Climate Change Research. Pacific Grove, California.

Raymo, M., Kawamura, K., Lisiecki, L., Thompson, W. G. and Severinghaus, J. P. (2006). *Precession pacing of the 100-kyr glacial cycles*. Fall AGU. San Francisco, CA.

Thompson, W. G. and Curran, H. A. (2006). *Bahamas stratigraphy: Millennial-scale sea level change during the Last Interglacial.* Smith College Field Course. San Salvador Island, Bahamas.

Thompson, W. G. and Curran, H. A. (2006). *Millennial scale sea level change during the Last Interglacial: The Bahamas and Barbado*s. SEALAIX '06 Sea Level Changes: Records, Process, and Modeling. Geins, France.

Thompson, W. G., Curran, H. A. and Lisiecki, L. (2006). *The coral record of millennial sea level change: an orbital influence?* Fall AGU. San Francisco, CA.

Thompson, W. G. (2005). *250,000 years of ice-volume change at millennial resolution*. Fall AGU. San Francisco, CA.

Thompson, W. G. (2005). *Assessing rapid climate change during the Last Interglacial with a new approach to sea level reconstruction*. 1st Annual Ocean and Climate Change Institute Symposium. Woods Hole Oceanographic Institution.

Thompson, W. G. (2005). *From Heinrich events to glacial terminations: fresh insights into climate cyclicity with a new approach to sea level reconstruction*. Woods Hole Oceanographic Institution. Woods Hole, MA.

Thompson, W. G. (2005). *Improving Late Quaternary chronologies with a fresh approach to U-series coral dating.* 2nd Annual Postdoctoral Symposium. Woods Hole Oceanographic Institution.

Thompson, W. G. (2005). *Reassessing sea level history for the last 250,000 years with a new approach U/Th coral dating*. Woods Hole Oceanographic Institution. Woods Hole, MA.

Thompson, W. G. (2005). *The consequences of alpha-recoil for U-series geochronology: solving a longstanding geochemical puzzle*. Dissertation Symposium on Chemical Oceanography. Waikoloa, Hawaii.

Thompson, W. G. (2004). *A 250,000-year record of sea level and climate from open-system coral ages.* Columbia University (LDEO). Palisades, New York.

Thompson, W. G. and Goldstein, S. L. (2004). *Abrupt sea level oscillations during Pleistocene highstands: results from a novel high-resolution approach to sea level reconstruction.* CGU/AGU/SEG/EEGS Joint Assembly. Montreal, Quebec.

Thompson, W. G. and Goldstein, S. L. (2004). *Sub-orbital frequency sea-level fluctuations during the Last Interglacial*. 8th Annual Conference on Paleoceanography. Biarritz, France.

Thompson, W. G., Spiegelman, M. W., Goldstein, S. L. and Speed, R. C. (2003). *An open-system model for U-series age determinations of fossil corals.* XVI Congress of the International Union for Quaternary Research. Reno, Nevada.

Thompson, W. G., Spiegelman, M. W., Goldstein, S. L. and Speed, R. C. (2002). *The timing of glacial terminations from open-system ages of corals*. 12th Annual V. M. Goldschmidt Conference. Davos, Switzerland.

Thompson, W. G., Fairbanks, R. G., Rubenstone, J. L., Mortlock, R. A. and Speed, R. C. (2001). *The age and duration of the last interglacial highstand from U-Th coral ages: accounting for isotopic addition*. GSA Annual Meeting. Boston, MA.

Thompson, W. G., Varekamp, J. C. and Thomas, E. (2000). *Fault motions along the Eastern Border Fault, Hartford Basin, CT, over the last 2800 years*. Spring AGU. Washington, DC.

Thompson, W. G., Varekamp, J. C., de Boer, J. Z. and Thomas, E. (1999). *Neotectonics in coastal Connecticut: evidence from the Farm River Marsh, Branford, CT*. Spring AGU. Boston, MA.

Thompson, W. G., Varekamp, J. C. and Thomas, E. (1999). *Relative sea-level rise curves from salt marsh deposits: techniques and pitfalls.* Spring AGU. Boston, MA.

Varekamp, J. C., Thomas, E. and Thompson, W. G. (1999). *Rates of relative sea level rise along Long Island Sound.* GSA NE Annual Meeting. Providence, RI.

Varekamp, J. C., Thomas, E. and Thompson, W. G. (1999). *Relative sea level rise along the NE USA seaboard*. Spring AGU. Boston, MA.

Thompson, W. G., Thomas, E. and Varekamp, J. C. (1998). *1500 years of sea level rise in Long Island Sound.* The Fourth Biennial Long Island Sound Research Conference. SUNY, Purchase, NY.

Thompson, W. G., Kreulen, B., Tobey, E., Thomas, E. and Varekamp, J. C. (1998). *The Farm River Marsh, CT: evolution and pollution.* Spring AGU. Baltimore, MD.