

MARTIN MEDINA-ELIZALDE AS OF 09/2009 email: mmedina@geo.umass.edu

Postdoctoral Research Associate

Dec- 2007 Dec-2009	UNIVERSITY OF MASSACHUSETTS, AMHERST <i>Global and Climate Change postdoctoral Fellowship</i> University Corporation for Atmospheric Research (UCAR)/National Oceanographic and Atmospheric Administration (NOAA) Host: Prof. Stephen Burns	USA
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Education

Sept 2002– Nov 2007	UNIVERSITY OF CALIFORNIA SANTA BARBARA Interdepartmental Program in Marine Science <ul style="list-style-type: none">Ph.D. Paleoclimatology and Paleoceanography Advisors: Prof. David W. Lea, James Kennett, Jordan Clark	USA
Sep. 1997 - Marzo 2000	CENTER OF RESEARCH AND ADVANCES STUDIES Department of Marine Biology <ul style="list-style-type: none">Master in Sciences degree in Contamination of Natural systems and Marine Geochemistry Advisor: Dr. Gerardo Gold Bouchot	Mérida, Yucatán, México
1994 - 1997	UNIVERSIDAD DE BAJA CALIFORNIA SUR BA. in Marine Biology	Baja California Sur, México

Research Interest:

My main research interest is in the fields of Paleoclimatology and Paleoceanography. I am particularly interested in the reconstruction of tropical and subtropical climate evolution from marine and land archives (e.g. corals, marine sediments and speleothems) using geochemical proxies (foraminiferal Mg/Ca and stable isotopes) and in investigating the relation between climate and the history of ancient civilizations

Publications:

- Medina-Elizalde, M.**, G. Gold-Bouchot and V. Ceja-Moreno (2002). "Lead contamination in the Mexican Caribbean recorded by the coral *Montastraea annularis* (Ellis and Solander)." *Marine Pollution Bulletin* 44(5): 421-423.
- Medina-Elizalde M.**, and Lea W. D. The Mid-Pleistocene Transition in the Tropical Pacific. *Science* 310, 1009 (2005). This paper was published in electronic format in *Science Express* on October 13, 2005.
- Medina-Elizalde M.** Las Glaciaciones, el Dióxido de Carbono y el Calentamiento Global. *Avance y Persp.* 24, 45 (2005)
- Hansen J., Sato M., Reto R., Ken Lo., Lea D. and **Medina-Elizalde M.** Global Temperature Change. *Proc. Nat. Acad. Sci.* 103, 14288-14293 (2006).
- Medina-Elizalde M.**, Lea W. D. and M. Fantle Implications of Seawater Mg/Ca Variability for Plio-Pleistocene Climate reconstruction, *Earth Planetary and Scientific Letters* (2008).
[doi:10.1016/j.epsl.2008.03.014](https://doi.org/10.1016/j.epsl.2008.03.014)

Medina-Elizalde M. and D. W. Lea. The Late Pliocene Tropical Pacific. (in review Palaeoceanografia, Paper #: 2009PA001780).

Medina-Elizalde M., Burns J. S., Lea, D., Polyak V., Asmerom Y., and Vuille M., A., von Gunten, L., The collapse of the Classic Maya civilization after the eight round of droughts. In preparation for Nature.

Honors

- Awardee of CONACYT-UCMEXUS Ph.D. SCHOLARSHIP (2002-2007)
- Awardee of WENDELL PHILLIPS WOODRING MEMORIAL GRADUATE FELLOWSHIP for the thesis with the highest merit. University of California Santa Barbara (2003).
- Awardee of NEJAT'S MEMORIAL MARINE SCIENCE FELLOWSHIP for the best written essay. Interdepartmental Program in Marine Science, University of California, Santa Barbara
- Awardee of National Science Foundation Travel Grant to attend the AGU Chapman Conference on Tropical-Extratropical Climatic Teleconnections; A Long-Term Perspective". February 2005.
- Awardee of "Global and Climate Change postdoctoral Fellowship" University Corporation for Atmospheric Research (UCAR) and National Oceanographic and Atmospheric Administration (NOAA) (Dec 2007-Dec 2009).
- Awardee of NSF fellowship to attend the DISCCRS IV Symposium (November 2-9, 2008).

Conferences:

Medina-Elizalde, M. and Gold-Bouchot, G. Chronology of Pb/Ca ratios in *Montastrea annularis* del Caribe

Mexicano. XII Congreso Nacional de Oceanografía. Huatulco, Oax., México (2000).

Medina-Elizalde, M. and Gold-Bouchot, G. Contaminación de Plomo a partir de registros coralinos del Caribe Mexicano. 1er Congreso Nacional sobre Arrecifes de Coral. Veracruz, Veracruz (México). Universidad Veracruzana y Acuario de Veracruz. Mexico. 28 June – 1 July.

Medina-Elizalde M. Lea D. and Spero H. Temperature History of the Western Equatorial Pacific over the last 1.3 Ma. American Geophysical Union, 1st Conference on Tropical-Extratropical Climatic Teleconnections; A

Long-Term Perspective, Hawaii, 2005

Medina-Elizalde M. and Lea D. The Mid-Pleistocene Transition In The Tropical Pacific. American Geophysical Union, San Francisco, USA, 2005.

Medina-Elizalde M. Global Warming: Scientific Aspects, historical context and climatic impacts. 1st Environmental Conference. Secretaria de Desarrollo Urbano y Medio Ambiente (SEDUMA). Mexico, Junio 5, 2007.

Medina-Elizalde M. and Lea D. The Late Pliocene Equatorial Pacific. American Geophysical Union, San Francisco, USA, 2007.

Posters:

Medina-Elizalde M. and Lea D. The Western Equatorial Pacific Thermal Evolution. American Geophysical Union. San Francisco, USA, 2003, 2004 and 2006.

Medina-Elizalde M., Lea D., Fantle M. Implications of seawater Mg/Ca variability for Plio-Pleistocene Tropical Climate reconstruction. American Geophysical Union. San Francisco, EUA, 2007

Medina-Elizalde M., Burns J. S., Lea, D., Polyak V., Asmerom Y., and Vuille M., A Late Holocene

Stalagmite Climate Record from the Yucatan Peninsula, Mexico. American Geophysical Union. San Francisco, EUA, 2008.

Professional Society membership

American Geophysical Union member since 2002

DISCCRS since Dec. 2007

AAAS member since Aug. 2008