

## BIOGRAPHICAL SKETCH - DOUGLAS S. INTRONE

### **A. PROFESSIONAL PREPARATION**

University of Miami, FL.                      Geology and Chemistry                      B.S., 1978  
Rosenstiel School of Marine and  
Atmospheric Science, University  
of Miami, FL.                                      Marine Geology and Geophysics M.S., 1983

### **B. APPOINTMENTS**

Laboratory Manager/Assistant Director, Stable Isotope Laboratory, University of Maine, Orono, ME. -1990 -Present  
Lecturer, Systems Ecology Research Group, San Diego State University, San Diego, CA.-1986 -1990  
Research Associate Scientist, Geological Research Division, Scripps Institution of Oceanography, University of California, San Diego, CA. -1985 -1990  
Research Assistant Professor, College of Oceanography, Oregon State University, Corvallis, OR. - 1984 -1985  
Research Assistant, Woods Hole Oceanographic Institution, Woods Hole, MA. -1983 -1984  
Assistant Director, University of Miami Radiocarbon Dating Laboratory, Dept. of Geology, University of Miami, FL. - 1978 -1980  
Research Assistant, Harold C. Urey Laboratory for Isotopic Paleotemperature, Dept. of Geology, University of Miami, FL. -1976 -1978

### **C. PUBLICATIONS**

Wanamaker, A.D., Kreutz, K.J., Wilson, T., Borns, H.W. Jr., Introne, D., and Feindel, S., 2008, Experimentally derived Mg/Ca and Sr/Ca ratios in juvenile bivalve calcite in *M. edulis*: implications for paleotemperature reconstruction, *Geo-Marine Letters*, DOI 10.1007/s00367-008-0112-8.  
Wanamaker, A.D., Kreutz, K.J., Schone, B.R., Maasch, K.A., Pershing, A.J., Borns, H.W., Introne, D.S., and Feindel, S., 2008, A late Holocene paleo-productivity record in the western Gulf of Maine, USA, inferred from growth histories of the long-lived ocean quahog (*Arctica islandica*), *International Journal of Earth Sciences*, doi 10.1007/s00531-008-0318-z.  
Wanamaker, A.D. Jr., Kreutz, K.J., Schone, B.R., Petigrew, N., Borns, H.W., Introne, D.S., Belknap, D., Maasch, K.A., and Feindel, S., 2007, Coupled North Atlantic slope water forcing on Gulf of Maine temperatures over the past millennium, *Climate Dynamics*, doi 10.1007/s00382-007-0344-8.  
Williamson, B.R., Kreutz, K.J., Mayewski, P.A., Bertler, N.A.N., Sneed, S., Handley, M., and Introne, D., 2007, A coastal transect of McMurdo Dry Valleys snow and firn: marine and terrestrial influences on glaciochemistry, *Journal of Glaciology*, 53(183), 1-13.  
Kaspari, S., Mayewski, P., Kang, S., Sneed, S., Hou, S., Hooke, R., Kreutz, K.J., Introne, D., Handley, M., Maasch, K., Qin, D., and Ren, J., 2007, Reduction in northward incursions of the South

Maasch, K., Qin, D., and Ken, J., 2007, Reduction in northward incursions of the South Asian monsoon since ~1400 AD inferred from a Mt. Everest ice core, *Geophysical Research Letters*, 34, L16701, doi:10.1029/2007GL020440.

Wanamaker, A.D., Kreutz, K.J., Borns, H.W. Jr., Introne, D.S., Feindel, S., Funder, S., Rawson, P., and Barber,

B., 2007, Experimental determination of salinity, temperature, growth, and metabolic effects on shell chemistry of *Mytilus edulis* collected from Maine and Greenland, *Paleoceanography*, 22, PA2217, doi:10.1029/2006PA001352.

Wanamaker, A.D., Kreutz, K.J., Borns, H.W., Introne, D.S., Feindel, S., Barber, B., and Funder, S.V., 2006, An

aquaculture-based method for calibrated bivalve isotope paleothermometry, *Geochemistry, Geophysics, Geosystems*, 7 (9), doi:10.1029/2005GC001189.

Kreutz, K.J., Aizen, V.B., Cecil, L.D. Wake, C.P., Introne, D. 2000. Oxygen isotopic and soluble ionic composition of precipitation recorded in a shallow firn core, Inilchek Glacier (Central Tien Shan), *Journal of Glaciology*, submitted.

Todd, S. K., Bass, A., and Introne, D. 2001. Within-tissue variability of  $d^{15}N$  stable isotope signal in harbor seal (*Phoca vitulina*) skin. (abstr. in) the Proceedings of the 14th Biennial Conference on the Biology of Marine Mammals, Vancouver, BC, Canada, Dec. 2001.

Marion, G.M., Introne, D.S., and Van Cleve, K., 1991. The stable isotope geochemistry of  $CaCO_3$  on the Tanana River floodplain of interior Alaska, U.S.A.: Composition and mechanism of formation. *Chem. Geol. (Isot. Geosci. Sect.)*. 86: 97-110

#### **D. SYNERGISTIC ACTIVITIES**

- Participant, AGU Ocean Sciences -2004
- Participant, 7<sup>th</sup> Annual Canadian Continuous-Flow Mass Spectrometry Workshop - 1999
- Participant, United States Antarctic Program, Nathaniel B. Palmer Cruise #001 -2000
- Contributor, 2<sup>nd</sup> Interlaboratory Comparison for Deuterium and Oxygen -18 Analysis of Water Samples, International Atomic Energy Agency, -1999
- Participant, 5<sup>th</sup> International Conference on Paleoceanography, 1996
- Participant, 3<sup>rd</sup> Annual Canadian Continuous-Flow Mass Spectrometry Workshop - 1995

#### **E. COLLABORATORS & OTHER AFFILIATIONS**

(i) Collaborators during last 24 months

Alan Wannamaker, Bangor Univ. Wales, John Christesen, Bigelow Laboratory, Nancy Bertler, Wellington Univ. New Zealand, Susan Kaspari, Paul Scherrer Institut, Switzerland, Jefferson Simoes, Brazil Itase, Shichang Kang, China, Harold Borns, University of Maine, Paul Mayewski, University of Maine

(ii) Graduate Advisors

Cesare Emiliani, University of Miami, deceased, Christopher G.A. Harrison, University of Miami, Eugene Mann, University of Miami

(iii) Thesis/Dissertation Laboratory Advisor

Alan Wannamaker, Bangor Univ. Wales, Susan Kaspari, Paul Scherrer Institut, Switzerland, Bjorn Grigholm, Univ. of Maine, Bruce Williamson, Univ. of Maine, Daniel Dixon, Univ. Maine, Karl Kreutz, Woods Hole Oceanographic Institution, Marianne Lagerklint, University of Stockholm, Sarah Nicholas, Washington University, James Leather, Naval Ocean Systems Center, San Diego, Guoping Wu, Tianemen School,

