

BIOGRAPHICAL SKETCH

Joseph Daniel Ortiz, PROFESSOR; US citizen

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a. Professional Preparation:

Brown University (Providence, RI), Major: Aquatic Biology Honors, B.S. with honors, 1988
Oregon State University (Corvallis, OR), Major: Marine Geology, Ph.D., Oceanography, 1995
L-DEO, Columbia University (Palisades, NY), Postdoctoral Research Scientist, Geochemistry, 1996 - 1998

b. Appointments:

Professor, Kent State University, Sept 2011-present

Associate Professor, Kent State University, Sept 2005- Aug 2011

Assistant Professor, Kent State University, Aug 2001-2005

Associate Research Scientist, L-DEO, Columbia University, July 1998- Aug, 2001

Adjunct Assistant Professor, Barnard College, Sept 2000-Dec 2000.

Visiting Assistant Professor (part time), Wesleyan University, December 1999-May 2000

c-1. Five Publications Most Relevant to Research Proposed Here:

GS Bullerjahn, RM McKay, TW. Davis, DB Baker, GL Boyer, LV D'Anglada, GJ Doucette, JC Ho, EG Irwin, CL Kling, RM Kudela, R Kurmayer, AM Michalak, **JD Ortiz**, TG Otten, HW Paerl, B Qin, BL Sohngen, RP Stumpf, PM Visser and SW Wilhelm, Global solutions to regional problems: collecting global expertise to address the problem of harmful cyanobacterial blooms. A Lake Erie case study, Harmful Algae, in press, 2016.

Ali, K.A., **Ortiz, J.D.**, 2014. Multivariate approach for chlorophyll-a and suspended matter retrievals in Case II waters using hyperspectral data, Hydrological Sciences Journal, 59, 1-14, DOI:10.1080/02626667.2014.964242.

Ortiz, J.D., Witter, D.L., Ali, K.A., Fela, N., Duff, M., and Mills, L., Evaluating multiple color producing agents in Case II waters from Lake Erie, International Journal of Remote Sensing, 34 (24), 8854-8880, 2013.

Ali, K.A., Witter, D.L., and **J.D. Ortiz**, Application of empirical and semi-analytical algorithms to MERIS data for estimating chlorophyll a in Case 2 waters of Lake Erie, Environmental Earth Sciences; DOI :10.1007/s12665-013-2814-0, published Oct 1, 2013.

Ali, K.A., Witter, D.L., and **J.D. Ortiz**, 2012, Multivariate approach to estimate color producing agents in Case 2 waters using first-derivative spectrophotometer data, Geocarta International, Early online release: 10/30/2012
DOI:10.1080/10106049.2012.743601.

c-2. Five Other Significant Publications:

K. Turpie, DW Allen, S Ackelson, T Bell, H Dierssen, K Cavanaugh, JB Fisher, J Goodman, L Guild, E Hochberg, VV Klemas, S Lavender, C Lee, F Muller-Karger, **JD Ortiz**, S Palacios, DR Thompson, R Zimmerman, “New need to understand changing coastal and inland aquatic ecosystem services”, White Paper to Steering Committee, National Academies of Science, Engineering, and Medicine study, Earth Science and Applications from Space, 31 December 2015

Mou, X, Jacob, J., Lu, X., Robbins, S., Sun S., **J.D. Ortiz**. Diversity and distribution of free-living and particle associated bacterioplankton in Sandusky Bay and adjacent waters of Lake Erie Western Basin, Journal of Great Lakes Research 2013.

Darby, D.A., **Ortiz, J.D.**, Grosch, C.E., Lund, S.P., 2012, 1,500 year cycle in the Arctic Oscillation identified in Holocene Arctic sea-ice drift, Nature Geoscience, Advance Online Publication: 11/11/2012, (doi:10.1038/ngeo1629).

Ortiz, J.D., Application of Visible/near Infrared derivative spectroscopy to Arctic paleoceanography, IOP Conf. Series: Earth and Environmental Science 14, 2011, doi:10.1088/1755-1315/14/1/012011.

Witter, D., **Ortiz, J.D.**, Palm, S. Heath, R., Budd, J., Assessing the Application of SeaWiFS Ocean Color Algorithms to Lake Erie, Journal of Great Lakes Research, 35, 361-370, 2009.

d. Five Synergistic Activities

- Discussion leader and participant, NSF CyanoHAB workshop, Global Solutions to Regional Problems, Bowling Green, OH, 2015.
- Participant, NSF US-Swedish I/B Odin Arctic Research Collaboration meeting, Stockholm, SE, 2015.
- Participant, NASA Great Lakes Workshop Series on Remote Sensing of water quality, NOAA GLERL Ann Arbor Michigan, 2014.
- Breakout Session leader and participant, NASA Great Lakes Workshop Series on Remote Sensing of water quality, Ohio Aerospace Institute, Cleveland OH, 2014.
- Lead Guest Editor, TOS Arctic Oceanography Special Volume, 24, no. 3, Sept 2011