



Col C. Reid Nichols, USMC (ret.)
 Marine Information Resources Corporation
 12337 Pans Spring Court, Ellicott City, Maryland, 21042
 Cell: 443-286-8398, Fax: 443-535-0610
 Email: rnichols@mirc-us.com

Professional Preparation:

MBA Candidate Spring 2017, Loyola University Maryland
M.S. 1991, Physical Oceanography, North Carolina State University.
B.A. 1982, Psychology, University of Maryland, Baltimore County.

Appointments:

Dec 1998 to Present, President/Oceanographer, Marine Information Resources Corporation
 Apr 1994 to Dec 1998, Oceanographer/Scientist, Neptune Sciences, Inc.
 Dec 1991 to May 1996, Physical Oceanographer, National Ocean Service, NOAA
 Sept 1977 to Oct 2011, U.S. Marine Corps Reserve [*Key billets held* – Platoon Commander, 2nd Landing Support Battalion; S-2, 2nd Landing Support Battalion; S-4, 3rd Reconnaissance Battalion; Officer-In-Charge, 4th & 5th Longshoreman Platoons; Commanding Officer, 4th Landing Support Battalion; AC/S G-2, Marine Forces Europe; and AC/S G-4, 4th Marine Logistics Group]

Products:

Five Products most closely related to the proposed projects

Nichols, C.R. Coastal and Ocean Modeling Testbed: Improving Operational Forecasts of Extreme Events and Chronic Environmental Conditions. Invited Presentation for WIGOS/JCOMM Technical Exchange Workshop on Marine Instrumentation for the Regional Association IV, Feb. 29-Mar 2, 2016, University of Southern Mississippi, Gulfport, Available online: URL: <http://bit.ly/22AMgi7>.

Wright, L. Donelson, C. Reid Nichols, Arthur G. Cosby, Christopher F. D'Elia. 2016, Collaboration to Enhance Coastal Resilience, *Eos, Transactions American Geophysical Union*. Vol. 97, Available online. URL: <http://bit.ly/2bwBwrU>.

Danchuk, S., C. R. Nichols, and L. D. Wright. 2015. Sea Level Rise Indicators in Broward County: Quick Look at Tidal Records and Recurring Flood Events. Presented at Understanding Risk and Resilience in Complex Coastal Systems, 2nd Annual SURA Coastal Resilience Workshop, Fort Lauderdale, Florida. October 26-28, 2015, Available online. URL: <http://bit.ly/1UCeNxG>.

Nichols, C. R., R.G. Weisberg, and A. J. van der Westhuysen. Coastal and Ocean Modeling Testbed Applications, in Nichols, C. R., (Ed.) 2015. In **Proceedings of Ocean Waves Workshop**. New Orleans, LA: University of New Orleans. Available online. URL: <http://bit.ly/1PvKSAY>.

Bachmann, C. M., C. R. Nichols, M. J. Montes, R. A. Fusina, J. C. Fry, R. Li, D. Gray, D. Korwan, C. Parrish, J. Sellars, S. A. White, J. Woolard, K. Lee, C. McConnon, and J. Wende, 2010. Coastal Characterization from Hyperspectral Imagery, In *Optical Remote Sensing of the Environment*, OSA Technical Digest (CD) (Optical Society of America, 2010), paper OMD2, pp. 138-141.

Five significant products:

- Williams, R. G., C. R. Nichols, and T. Ethier. Wave Buoys: Using the Right Tool for the Right Job, in Nichols, C. R. and R. G. Williams (Eds.). 2013. In **Proceedings of Ocean Waves Workshop**. New Orleans, LA: University of New Orleans. Available online. URL: <http://bit.ly/1T9UgAD>.
- Bachmann, C. M., C. R. Nichols, M. J. Montes, R. A. Fusina, J. C. Fry, R. Li, D. Gray, D. Korwan, C. Parrish, J. Sellars, S. A. White, J. Woolard, K. Lee, C. McConnon, and J. Wende, 2010. Coastal Characterization from Hyperspectral Imagery, In **Optical Remote Sensing of the Environment**, OSA Technical Digest (CD) (Optical Society of America, 2010), paper OMD2, pp. 138-141.
- Bachmann, C. M., C. R. Nichols, M. J. Montes, R-R. Li; P. Woodward, R. A. Fusina, W. Chen, V. Mishra. W. Kim, J. Monty, K. Mcilhany, K. Kessler, D. Korwan, W. D. Miller, E. Bennert, G. Smith, D. Gillis, J. Sellars, C. Parrish, A. Schwarzschild, and B. Truitt, 2010, Retrieval of Substrate Bearing Strength from Hyperspectral Imagery During the Virginia Coast Reserve (VCR'07) Multi-Sensor Campaign. *Marine Geodesy*. Volume 33, Issue 2-3, pp. 101-116.
- Nichols, C.R. and R.G. Williams, *Encyclopedia of Marine Science*, New York: Facts On File, Inc. 2009.
- Nichols, C.R., D.L. Porter, and R.G. Williams, *Recent Advances and Issues in Oceanography*, Westport, Connecticut: Greenwood Publishing Group, 2003

Synergistic Activities:

- Supporting the SURA Coastal and Environmental Research Committee and non-SURA partners who report to the SURA Board of Directors twice per year. Developing projects relevant to the integration of engineering, environmental, and community resilience.
- Managing the Coastal and Ocean Modeling Testbed for the Southeastern Universities Research Association.
- Applying a Monte-Carlo Simulation to assess value of the Chesapeake Bay Interpretive Buoy System (CBIBS) for the NOAA Chesapeake Bay Office.
- Planning and executing the biennial Ocean Waves Workshop with University of New Orleans.
- Designing and building geodatabases and publishing data reports for NRL Remote Sensing Campaigns (e.g., Mariana Islands-Hyperspectral Airborne Remote Environmental Sensing Experiment 2010, Talisman-Saber 2009 Remote Sensing Experiment, Hawaii-Hyperspectral Airborne Remote Environmental Sensing Experiment, and Virginia Coast Reserve 2007 Remote Sensing Experiment).