

BIOGRAPHICAL SKETCH

CURRIER, ROBERT D.

Department of Oceanography
Texas A&M University
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College Station, TX 77843

Education

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|----------------|------------------------|--|
| AAS | Electronics Technology | 1978 U.S. Naval Training Command |
| Partial | Math/Physics | 1985 North Carolina Central University |
| Course Studies | Entomology | 2012 University of Florida |

Academic and Professional Honors:

EDUCAUSE Excellence in Campus Networking award winner 1998.
EDUCAUSE Excellence in Campus Networking award finalist 1997.
Jointly hold US Patent 7,797,109 relating to the IT infrastructure of the beach conditions website.
Senior Technology member of North Carolina Networking Initiative.
Campus technical representative to Internet2 consortium.
Founding member of Internet2.
Co-PI on GCOOS Data Node project.

Employment History

Research Specialist IV, Gulf of Mexico Coastal Ocean Observing System/TAMU, 2014-Present.
Senior Data Engineer, Mote Marine Laboratory, Sarasota, FL 2005-2014.
Director, Telecommunications and Networking, Duke University, Durham, NC 1987-2005.
Oceanographic Electronics Technician, R/V Cape Hatteras, Morehead City, NC 1985-1987.
United States Navy 1975-1979.

Five Publications Most Closely Related to Proposed Project

1. Currier R, Kirkpatrick B, Simoniello C. GUARDIAN: Gulf Acoustic Research Database and Inter-species Animal Tracking Network. SEAFWA 2018, Mobile, AL.
2. Currier R, Kirkpatrick B. HABscope: A Deep-Learning Based System for Automated Detection and Quantification of Harmful Algae Blooms. Great Lakes Observing Systems Annual Webinar. January 2018, Ann Arbor MI.
3. Currier R, Kirkpatrick B. Automated Classification and Quantification of *Karenia brevis* using Deep Learning and Convolutional Neural Networks. 9th US National HAB Symposium, November 2017, Baltimore, MD.
4. Currier R, Kirkpatrick B. Developing a Data Harvester in the Amazon Cloud for the Automated Assimilation of Florida's Healthy Beaches Reports into the GCOOS Data Portal. MTS/IEEE Oceans14 conference, September 2014, St. John's, Newfoundland.
5. Kirkpatrick G., Hails A, Currier RD, Boyes C. The Optical Phytoplankton Discriminator. Coastal Oceans 2009 Conference, Biloxi, MS.

Five Other Significant Publications

1. Currier RD. Constructing a collaborative tool for the dissemination of real-time environmental conditions using open source software. Coastal GeoTools 2009 Conference, Myrtle Beach, SC.
2. Currier RD. Constructing adaptive mission planning and real time control systems for autonomous underwater vehicles with open source software. Coastal GeoTools 2009 Conference, Myrtle Beach, SC.
3. Kirkpatrick G, Currier RD, Hails A, Boyes C. An Ocean Observing System for Harmful Algal Bloom Detection and Tracking. Coastal Oceans 2009 Conference, Biloxi, MS.
4. Barbara Kirkpatrick, Currier RD, Kate Nierenberg, Andy Reich, Lorraine C. Basker, Lora E. Fleming, Richard Stumpf, Gary Kirkpatrick. 2007. Ocean Observing Systems and Public Health: The Florida Beach Conditions Reporting System to Minimize Exposure to *Karenia brevis* Aerosols. Fourth Annual HAB Symposium, 2007.
5. Love, R., M. Culver, G. Kirkpatrick, Currier RD, J. Hillier, R. P. Stumpf, M. Tomlinson 2007. Improving the harmful algal bloom forecast system with optical data from autonomous underwater vehicles. Abstract: Coastal GeoTools 2007 Conference, March 4-8, 2007, Myrtle Beach, SC.

Five Archived Datasets Most Closely Related to Proposed Project

1. DiMarco S, Currier R. Slocum Glider Mission 2018-05-09, TAMU, Sverdrup, http://gcoos4.tamu.edu/data/gandalf/tamu/unit_541/2018/2018_05_09/
2. DiMarco S, Currier R. Slocum Glider Mission 2018-01-24, TAMU, Stommel, http://gcoos4.tamu.edu/data/gandalf/tamu/unit_540/2018/2018_01_24/
3. DiMarco S, Currier R. Slocum Glider Mission 2018-01-05, TAMU, Reveille, http://gcoos4.tamu.edu/gandalf_data/tamu/unit_307/2017/2017_12_18/
4. Beckler J, Currier R. Slocum Glider Mission 2017-10-27, Mote, mote-genie, http://gcoos4.tamu.edu/gandalf_data/mote/mote-genie/2017/2017_10_27/
5. Lembke C, Currier R. Slocum Glider Mission 2017-09-27, USF, usf-sam, http://gcoos4.tamu.edu/gandalf_data/usf/usf-sam/2017/2017_09_27/

Five Other Significant Archived Datasets

1. DiMarco S, Currier R. Slocum Glider Mission 2017-09-02, TAMU, Sverdrup, http://gcoos4.tamu.edu/gandalf_data/tamu/unit_541/2017/2017_09_02/
2. Beckler J, Currier R. Slocum Glider Mission 2017-06-23, Mote, mote-genie, http://gcoos4.tamu.edu/gandalf_data/mote/mote-genie/2017/2017_06_23/
3. Beckler J, Currier R. Slocum Glider Mission 2017-04-04, Mote, mote-genie, http://gcoos4.tamu.edu/gandalf_data/mote/mote-genie/2017/2017_04_04/processed_data/
4. Beckler J, Currier R. Slocum Glider Mission 2017-02-23, Mote, mote-genie, http://gcoos4.tamu.edu/gandalf_data/mote/mote-genie/2017/2017_02_23/processed_data/
5. Howden S, Currier R. Slocum Glider Mission 2016-09-14, USM, roxy, http://gcoos4.tamu.edu/gandalf_data/usm/roxy/2016/2016_09_14/processed_data/