

ASTRID SCHNETZER

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EDUCATION

- 2001 University of Vienna, Austria, Ph.D. in Marine Biology. Episodic sedimentation and following remineralization of differently-aged marine snow stages: a Laboratory Study; Advisor: Dr. J. Ott
- 1996 University of Vienna, Austria, M.S. in Zoology / Ecology. Active transport of Particulate Organic Carbon (POC) by vertically migrating zooplankton in the Sargasso Sea. Advisors: Drs G. Herndl and D. Steinberg

PROFESSIONAL EXPERIENCE

- 2006 - Present University of Southern California, Research Assistant Professor
- 2002 - 2005 University of Southern California, Postdoctoral Research Associate

COLLABORATIVE AND INTERDISCIPLINARY GRANTS

- Southern California Regional Coastal Ocean Observing System. Co-PI on multi-institutional NOAA project on HAB monitoring along Californian Coast with Drs. B. Jones (USC/SCOOS) and D. Caron (USC); 2008-2010, \$540,927
- Emerging Harmful Algal Blooms in Coastal Southern California: A Case Study in King Harbor, Redondo Beach. Co-PI on USC Seagrant project with David Caron (USC); 2008-2010, \$141,225
- Collaborative Research: Do Crustacean Zooplankton Play a Pivotal Role in Structuring Heterotrophic Plankton Communities? Co-PI on NSF Antarctic research project with David Caron (USC) and Darcy Lonsdale (Stony Brook); 2006-2010, \$601,014
- MERHAB – RAPDALERT: Rapid Analyses of *Pseudo-nitzschia* & Domoic Acid, Locating Events in near-Real Time. Research Associate on NOAA MERHAB project with David Caron (USC), Burton Jones (USC), Gaurav Sukhatme (USC), Deborah Estrin (UCLA), Peter Miller (UCSC), Steve Weisberg (SCCRWP) and Paul DiGiacomo (JPL); 2005-2010, \$2,858,159
- Stimulation of Toxic Blooms of the Diatom *Pseudo-nitzschia* spp. by Urban River Discharge into the Southern California Coastal Waters. Research Associate on EPA ECOHAB project with David Caron (USC), Peter Miller (UCSC) and Paul DiGiacomo (JPL); 2005-2008, \$350,765

FELLOWSHIPS AND AWARDS

- 2009 Travel Grant, Women in Science and Engineering (WISE)
- 2008 Invited participant, Women Evolving Biological Sciences (WEBS)
- 2002-2004 Postdoctoral Fellowship, Schrödinger Stipend for Postdoctoral Studies, Austrian Science Fund
- 2003 Best Student Poster, JGOFS Open Science Conference Award
- 2003 Invited participant Dissertations Initiative for the Advancement of Climate Change Res. program
- 2000 Sydney L. Wright Memorial Fellowship
- 1999 Stone Fellowship

- 1998,1999 Munson Foundation Stipend
 1998 Invited participant National Science Foundation Symposium: '50 Years NSF' (Washington DC)
 1997, 1998 Special grant from native district in Austria (Oberoesterreich)
 1994, 95,98 Grants from Center for Foreign Studies (Austria)

PUBLICATIONS

- Wood E.S, **Schnetzer A.**, Benitez-Nelson C.R., Anderson C., Berelson W., Brzezinski M., Burns J., Caron D.A., Cetinic I., Ferry J., Fitzpatrick E., Jones B., Miller P.E., Morton S.L., Schaffner R.A., Siegel D., Thunell R. (accepted) Rapid downward transport of the neurotoxin domoic acid in coastal waters – Nature Geoscience
- Caron DA., Countway PD., Savai P., Gast RJ., **Schnetzer A.**, Moorthi S., Dennett, MR. Moran, DM. and Jones AC. (in review) Defining DNA-based operational taxonomic units for microbial eukaryote ecology – Appl. Environ. Microbiol.
- Litaker, R.W., Stewart, T.N., Eberhart, B.T.L., Wekell, J.C., Trainer, V.L., Kudela, R.M., Miller, P.E., Roberts, A., Hertz, C., Johnson, T.A., Frankfurter, G., Smith, J., **Schnetzer, A.**, Schumacker, J., Bastian, J.L., Odell, A., Gentien, P., Le Gal, D., Hardison, D.R., Tester, P.A (2008). Rapid Enzyme-linked Immunosorbent Assay for Detection of the Algal Toxin Domoic Acid – Journal of Shellfish Research: 27: 1-10
- Schnetzer, A.**, Miller, P. E., Schaffner, R. A., Stauffer, Rose, J. M., B., Jones, B., Weisberg, S. B, DiGiacomo, P. M., Berelson, W., and Caron, D. A. (2007) *Pseudo-nitzschia* spp. and domoic acid in the San Pedro Channel and Los Angeles harbor areas of the Southern California Bight, 2003-2004 - Harmful Algae: 6: 372-387
- Caron, D.A., **Schnetzer, A.** Protistan community structure (2006). In: Hurst, C.J., Knudsen, G.R., McInerney, M.J., Stetzenbach, L.D. and M.V. Walter (eds.). Manual of Environmental Microbiology, Section IV, ASM Press, Washington, D.C.
- Schnetzer, A.**, Caron, D.A. (2005) Copepod grazing impact on the trophic structure of the microbial assemblage of the San Pedro Channel, California – J Plankton Res, 27:959-972
- Schnetzer, A.**, Steinberg, D.K. (2002) Active Transport of particulate organic carbon and nitrogen by vertically migrating zooplankton in the Sargasso Sea. Mar Ecol Progr Ser, 234:71-84
- Schnetzer, A.**, Steinberg, D.K. (2002) Natural Diets of Vertically Migrating Zooplankton in the Sargasso Sea. Mar Biol, 141(1):89-99

PAPERS IN PREPARATION

- Schnetzer A.**, Moorthi S., Gast RJ., Countway PD., Gilg IC. and Caron DA. Depth matters: Microbial eukaryote diversity and community structure in the western North Pacific as indicated by environmental gene libraries – Deep Sea Res.
- Schnetzer A.**, Caron DA. Copepod grazing impact on the microbial assemblage of the San Pedro Channel, California: analyses of protistan community composition changes through gene sequences – Limnol. Oceanogr.
- Caron, DA., Countway PD., Vigil P., **Schnetzer A.**, Gobler CJ., Lonsdale DJ., Jones AC. and Kim DY. Protistan diversity in estuaries subjected to historical and contemporaneous blooms of the 'Brown Tide' alga, *Aureococcus anophagefferens*
- Gilg I.C., Amaral-Zettler L.A., Countway P.D., Moorthi S., **Schnetzer A.** and Caron DA. Phylogenetic affiliations of mesopelagic acantharia and acantharian-like environmental 18S rRNA genes in the San Pedro Channel – Protist

NON PEER-REVIEWED PUBLICATION

Schnetzer A., Caron DA (2006) USC Studies Toxic Algal Blooms in the Southern California Bight, Southern California Marine Institute September Newsletter

PUBLISHED ABSTRACTS

- Schnetzer A. Moorthi S., Gast RJ., Countway PD., Gilg IC. and Caron DA. (2009) Depth matters: Microbial eukaryote diversity and community structure in the western North Pacific as indicated by environmental gene libraries. Talk at 2009 ASLO/AGU Science Meeting in Nice, France
- Moorthi S., Schnetzer A., Countway PD, Savai P and Caron DA (2009) Interannual seasonal variability of protistan diversity and community structure in the San Pedro Channel, Western North Pacific; Poster at 2009 ASLO/AGU Science Meeting in Nice, France
- Schnetzer A. (2008) Protistan diversity: from biogeography to food web dynamics, Post at Women Evolving Biological Science (WEBS) conference, Seattle, WA
- Schaffner R., Schnetzer A., Weisberg S., Caron D. and Jones B. (2008) GIS analysis of Harmful Algal Blooms in Southern California, Poster 2008 ESRI International User Conference, San Diego, CA
- Caron D.A., Kaveggia S., Palmer L., Evans R.H., Hunter M., Fitzpatrick E. and Schnetzer A. (2008) Talk at Annual Meeting of the National Military Fish and Wildlife Association (NMFWA), Phoenix, AZ
- Benitez-Nelson C. R., Sekula E., Schnetzer A., Caron D.A., Anderson C., Thunell R., Morton S., Burns J., and Ferry J. (2008) Persistence of the Marine Biotxin Domoic Acid at Depth in the Santa Barbara Basin, California, Regional workshop for Harmful Algal Blooms (HABs) in California coastal waters, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA
- Palmer L., Schnetzer A., Caron D.A. and St. Leger, J. (2008) Domoic acid concentration in stranded pinnipeds in Los Angeles County 2006-2007. Southwest Annual Regional Stranding Conference, Santa Cruz, CA
- Schnetzer A, Palmer L., Kaveggia S., Evans R., Hunter M., Jones B., Cetinic I., Fitzpatrick E., Song G., Miller P.E., Schaffner R., Weisberg S. and Caron, D.A. (2007) Toxic blooms of *Pseudo-nitzschia* spp. and their impact on coastal marine life in the southern California Bight area near Los Angeles; 4th Symposium of Harmful Algae Research in the US, Woods Hole Oceanographic Institute, MA
- Bai, X, Stauffer, B, Schnetzer A, Darjany L, Caron DA., Oberg C, Dhariwal A, Zhang B, Pereira A, Das J, Sukhatme GS. (2007) Monitoring and Detecting Harmful Algal Blooms in King Harbor, City of Redondo Beach, CA, Using a Wireless Sensor Network; Center for Embedded Networked Sensing (CENS) site visit, University of California, Los Angeles
- Moorthi, S., Schnetzer A, PE., Schaffner, Cetinic I., Jones B, and Caron DA (2007) Seasonal dynamics of a red tide dinoflagellate (*Lingulodinium polyedrum*) in Southern California during 2005. 26. Tagung der Deutschen Gesellschaft fuer Protozoologie in 2007, Salzburg, Austria
- Schnetzer A, Caron DA., Palmer L, Hunter M., Evans R. (2007) *Pseudo-nitzschia* bloom dynamics and domoic acid-related strandings for Californian sea lions in the Los Angeles area during a significant toxic event in 2006. Talk at the 2007 California Marine Mammal Stranding Network Conference, San Diego, CA
- Caron DA., Schnetzer A., Miller, PE., Schaffner, RA., Jones, A., Jones B, Cetinic I., Kim, D., Pan, B., Weisberg, SB., Kaveggia, S., Palmer L. (2006) *Pseudo-nitzschia* and Domoic Acid in the San Pedro Bay: Anatomy of a Recent Harmful Algal Bloom. Talk at California & the World Ocean Conf., Long Beach, CA
- Schnetzer A., Caron DA. (2006) Molecular Approaches to study the impact of copepod grazing on protistan community structure in Southern California coastal waters. Poster at the Gordon Research Conference on Marine Microbes, Biddeford, MN

- Caron DA., Schnetzer A. (2006) Harmful Algae Blooms. Talk at 2006 California Marine Mammal Stranding Network Conference, San Pedro, CA
- Schnetzer A., Schaffner RA, Stauffer BA, Miller PE, Jones AC, Cetinic I, Jones B, Weisberg SB, Caron, DA. (2006) Pseudo-nitzschia Blooms in the Los Angeles Harbor and Adjacent Coastal Waters. Poster at SCCOOS Ocean Observing Conference, Long Beach, CA
- Schnetzer A, Caron DA, Miller PE, Schaffner RA, Jones AC, Jones B, Cetinic I, Kim D, Pan B (2006) Pseudo-nitzschia and Domoic Acid in the Los Angeles Harbor and Adjacent Coastal Waters. Talk at Red Tide Symposium organized by the Southern California Academy of Sciences, Malibu, CA
- Cetinic I., Schnetzer A., Caron DA, and Jones B. (2006) Red tide blooms (*Lingulodinium polyedra*) in San Pedro Bay. Talk at Red Tide Symposium organized by the Southern California Academy of Sciences, Malibu, CA
- Schnetzer, A., Schaffner, R. A., Stauffer, B. A., Miller, P. E., Jones, AC, Cetinic, I., Jones, B., Weisberg, S. B., Caron, D. A. (2006) Toxic Blooms of the Diatom *Pseudo-nitzschia* spp. and Urban River Discharge Into Southern California Coastal Waters. Poster at the 2006 ASLO/AGU Science Meeting in Honolulu, HI
- Cetinic, I., Schnetzer, A., Caron, D. A. and Jones, B. (2006) Seasonal evolution of the phytoplankton community in San Pedro Bay Poster at 2006 ASLO/AGU Science Meeting in Honolulu, HI
- Schnetzer, A., Miller, P. E., Schaffner, R. A., Stauffer, B., Jones, B., Weisberg, S. B, DiGiacomo, P. M., Berelson, W., and Caron, D. A. (2005) *Pseudo-nitzschia* spp. and domoic acid in the San Pedro Channel and Los Angeles harbor areas of the Southern California Bight, 2003-2004. Poster presentation at the 3rd Symposium for Harmful Algae in the US, Monterey, CA
- Caron, D.A., Gast, R.J., Countway, P.D., Savai, P., Schnetzer, A., Moorthi, S. (2005) Protistan DNA sequence information and the species concept: defining taxa for ecological studies. Oral presentation at the 2005 ASLO/AGU Science Meeting in Salt Lake City, UT
- Moorthi, S.D., Countway, P.D., Schnetzer, A., Caron, D.A. (2005) Use of molecular approaches to investigate the dynamics of the red tide dinoflagellate *Lingulodinium polyhedrum*. Poster presentation at the 2005 ASLO/AGU Science Meeting in Salt Lake City, UT
- Fuhrman, J.A., Caron, D.A., Brown, M.V., Countway, P.D., Hernandez, X.A., Hewson, I., Moorthi, M., Savai, P., Schaffner, R., Schnetzer, A., Schwalbach, M.S., Steele, Thakkar, S., Vigil, P. (2004) The USC Microbial Observatory, 3rd Annual NSF Microbial Observatory Principal Investigators' Workshop 2004, Big Sky, MT
- Schnetzer, A., Caron, D. A., Countway, P. D. (2003) A Molecular Approach to Assess the Impact of Zooplankton Grazing, Poster presentation at the 2003 ASLO Meeting, Salt Lake City, UT
- Caron, D.A., Gast, R.J., Countway, P.D., Schnetzer, A., Moran, D.M., Dennett, M.R., Travao, M. (2003) Unicellular Eukaryotic Biodiversity in Environmental Samples from the Western North Atlantic and Eastern North Pacific, Poster presentation at the 2003 ASLO Meeting, Salt Lake City, UT
- Countway, P.D., Caron, D.A., Schnetzer, A., Travao, M., Gast R.J., Dennett, M.R. (2003) Community Fingerprints of Eukaryotic Marine Microbes at a Coastal Time-Series Station, Poster presentation at the 2003 ASLO/AGU Science Meeting, Salt Lake City, UT
- Fuhrman, J.A., Caron, D.A., Brown, M.V., Countway, P.D., Hernandez, X.A., Hewson, I., Liang, X., Patel, A., Savai, P., Schaffner, R., Schnetzer, A., Schwalbach, M.S., Steele, J.A., Travao, M. (2003) The USC Microbial Observatory, Poster presentation at the 2nd Annual NSF Microbial Observatory Principal Investigators' Workshop 2003 in Arlington, VA
- Schnetzer, A., Steinberg, D. K. (2003) The Impact of Diel Vertical Migration on Surface Export of Particulate Organic Matter and Cycling of Energy in the Mesopelagic Zone, Poster presentation at Final Open JGOFS Conference, 2003 in Washington DC, MD
- Steinberg, D. K., Madin, L. P., Landry, M. R., Schnetzer, A., Sheridan, C. C. (2003) Zooplankton and Biogeochemical Cycling in the Subtropical Atlantic and Pacific Oceans, Poster presentation at 3rd International Zooplankton Symposium, 2003 in Gijón, Spain

- Fuhrman, J., Caron, D., Brown, M., Countway, P., Hewson, I., Hernandez, X., Liang, X., Patterson, D. J., Schwalbach, M., Schnetzer, A., Schaffner, R., Travao, M. (2002) The USC Microbial Observatory, Poster at the 1st Annual NSF Microbial Observatory Principal Investigators' Workshop, 2002 in Arlington, VA
- Schnetzer, A., Steinberg, D. K. (2002) Natural Diets of Vertically Migrating Zooplankton in the Sargasso Sea, Poster presentation at the 2002 ASLO/AGU Science Meeting in Honolulu, HI
- Schnetzer, A., Steinberg, D. K. (2000) Active Transport of Particulate Organic Carbon (POC) by Vertically Migrating Zooplankton in the Sargasso Sea, Oral Presentation at the 2000 ASLO/AGU Sciences Meeting in San Antonio, TX
- Schnetzer, A., Ott, J. A. (1996) Adaptive Strategies to Extreme Environmental Conditions, Oral Presentation at the 31st European Marine Biology Symposium, 1996 in St. Petersburg, Russia
- Schnetzer, A., Ott, J. A. (1994) Changes in Nutrient Dynamics Between Marine Sediment and Overlying Water Caused by Sedimentation of Marine Snow, Poster at 1994 ASLO/AGU Sciences Meeting in San Diego, CA

INVITED SEMINARS AND TALKS

- Schnetzer A, Caron DA, Kaveggia S. and Fitzpatrick E. (2008) Seminar Series at Wetlands & Wildlife Care Center: Domoic Acid Poisoning. Huntington Beach, CA
- Schnetzer A (2007) Harmful and toxic algal blooms in coastal waters near Los Angeles. Los Angeles Yacht Club Luncheon, San Pedro, CA
- Schnetzer A, Caron DA, Palmer L, Hunter M, Evans R and Fitzpatrick E. (2007) Confirmed cases of domoic acid poisoning in marine mammals. Symposium on Diseases and Maladies of Southern California Marine Mammals; Southern California Academy of Sciences, Fullerton, California, US
- Schnetzer A (2006, 2007) Harmful and Toxic Algae in Southern California. Marine Mammal Care Center at Fort McArthur, San Pedro, CA
- Schnetzer A (2006) Harmful Algae Blooms. Redondo Beach City Council and Water Quality Task Force, Redondo Beach, CA
- Schnetzer A, Caron DA. (2006) Harmful Algae Blooms. Cabrillo Marine Aquarium, San Pedro, CA
- Schnetzer A, Caron DA. (2006) Protistan diversity in Antarctic coastal waters. Census of Marine Antarctic Microbes Workshop, Innsbruck, Austria
- Schnetzer A (2002) The Big Vertical Migration. Department of Marine Biology, Vienna, Austria
- Schnetzer, A., Steinberg, D. K. (2002) Active Transport of Particulate Organic Carbon (POC) by Vertically Migrating Zooplankton. USC, CA
- Schnetzer, A., (2001) Vertical Migration in the Sargasso Sea: Implications on Export Flux and Resource Partitioning. Seminar, UC Davis, CA

TEACHING EXPERIENCE

- 2009 Instructor: 'Problems without Passport' Course on Catalina Island with Dr Ziebis, USC
- 2007, 2008 Guest Lecturer: Advanced General Biology: Organismal Biology and Evolution, USC
- 2007 Instructor: Advanced Seminar in Plankton Biology with Drs Caron & Heidelberg, USC
- 2001 Instructor: Biological Oceanography with Dr Lomas, Bermuda Institute of Ocean Sciences (BIOS)
- 1999, 2000 TA for Biological Oceanography, BBSR
- 1999 TA for Marine Microbial Ecology: Molecular Ecology and Biogeochemistry, BBSR
- 1999 TA for Marine Microbial Ecology, BBSR
- 1994-1996 TA for Field Course in Marine Ecology in Rovinj (Croatia), University of Vienna

UNDERGRADUATE RESEARCH MENTOR (USC)

Elizabeth Fitzpatrick (2006 – 2009), Gloria Song (2006 – 2007), Sarah Moy (2007), Lauren Farrar (2004 -2006), Billy Pan (2005 – 2006), Karoline Tum (2005), Erica Brauer (2003 – 2004), Carlos Teuscher (2003)

PROFESSIONAL SOCIETIES

American Society of Limnology and Oceanography, The Oceanographic Society, American Geophysical Union, International Society for the Study of Harmful Algae, ProMare Austria

OCEANOGRAPHIC CRUISES & FIELD EXPERIENCE

Southern California Coast, North Eastern Pacific

2006 – 2008: Redondo Beach, King harbor (weekly). Harmful Algae Blooms (HAB)

2005 – present: MERHAB: Los Angeles harbor and San Pedro Channel (quarterly)

2005 –2008: EcoHAB: Los Angeles harbor and San Pedro Channel (weekly to monthly)

2002 – 2005: Microbial Observatory at USC. San Pedro Channel. Protistan Diversity (monthly)

Coastal Southern Ocean and Ross Sea, Antarctica

Jan/Feb 2008: 7-week cruise: Ecology of mid-trophic food web interactions (organization & outreach)

Oct-Dec 2005: 7-week cruise: Protistan Diversity in open water, slush and sea-ice communities.

Oct/Nov 2003: 4-week cruise: Protistan diversity & copepod feeding ecology.

Hydrothermal Vents, Equatorial Pacific

Nov/Dec 2004: 6-week cruise to hydrothermal vents along the East Pacific Rise (9°N and 13°N). Protistan diversity within hydrothermal plume and vent habitats (Alvin dive to 2600m at 13N site)

Sargasso Sea, North Western Atlantic

April 1998-2001: Bermuda Atlantic Time-series Study (BATS). Monthly cruises to study ocean biogeochemistry and food web dynamics.

Northern Adriatic, Mediterranean

1992 – 1996: Benthic-pelagic coupling in the coastal Northern Adriatic Sea (Ruder Boskovich Institute in Rovinj, Croatia). Marine snow and sediment – water exchange processes (SCUBA diving).

ACADEMIC SERVICES

Panelist for NSF (Office for Polar Programs, 2007)

Grant Reviews: NSF (Office for Polar Programs, Biological Oceanography)

Manuscript Reviews: Aquatic Microbial Ecology, Animal Ecology, Deep Sea Research, Environmental Microbiology, Estuaries and Coasts, Limnology and Oceanography, Marine Ecology Progress Series, Journal of Plankton Research

WORKSHOPS, EDUCATION & OUTREACH

- 2009, Jan Bight Water Quality Project; Two 1-day workshops to train coastal monitoring agencies in sample collection methods to determine water quality parameters and measure algal toxins; collaboration with Southern California Coastal Research Water Project (SCCWRP), Costa Mesa, CA
- 2008, Apr Phytoplankton Identification Training; 1-day workshop to train coastal water monitoring agencies in identifying harmful and toxic algal species; collaboration with SCCWRP, Costa Mesa, CA
- 2007 Documentary 'Men and the Sea' on toxic algal blooms and their impact on sea lions produced by Amy Tenowich, 'Impact' series by USC Annenberg School of Communication
- 2006-2007 Documentary 'In Harm's Way' on toxic algal blooms and their impact on coastal marine life. Producers: D. Caron & A. Schnetzler in association with the USC Wrigley Institute for Environmental Sciences; directed by Lauren Farrar

- 2002-2008 Participation in yearly Ocean Science Bowl at USC; Ocean-focused academic competition for high school students.
- 2005 Ocean Literacy Workshop participant organized by the Consortium for Oceanographic Research and Education (CORE); Aquarium of the Pacific, Long Beach, CA
- 2004-pres. Participation in Center for Ocean Sciences Education Excellence (COSEE), Lectures and workshops to increase the awareness of Ocean Sciences.
- 1998-2001 Guest Lecturer for Elderhostel and high school programs, BIOS

Newspaper and Television Features – Specific to Harmful Algae Research:

- 2009, Jan New York Times: 'In Pelican Mystery, Weather Is a Suspect'
- 2007, Jun New York Times: 'Sea Lions Hit By High Levels of Acid Poison in California'
- 2007, May CBS News: 'Sea Lions Sickened By Toxic Algae Left On Beaches'; The Beach Reporter: 'Sea mammals along the coast dying'; Los Angeles Times: 'Mass poisoning swamps marine animal rehab centers'; Daily Pilot: 'Deadly ocean toxin at worst-ever level'; Daily Breeze: 'Ocean toxin still takes toll as levels decline'; Associated Press: 'Toxic acid blamed in deaths of seabirds'; International Bird Rescue Research Center - Press Release: 'Crises of Our Coast'; NOAA / Center for Coastal Sponsored Ocean Research: 'Harmful Algal Bloom in California: *Pseudo-nitzschia* Spreads Along Coast Causing Massive Mortalities of Marine Life';
- 2007, Apr Science Daily, 'Algae Bloom Kills Sea Birds, Other Sea Life In Southern California In Record Numbers'; Los Angeles Times, 'Marine deaths linked to toxin'; Daily Breeze, 'Demonic Domoic'; The Log 'Cause of Marine Bird Deaths Still a Mystery';
- 2007, Feb National CBS Evening News 'Sea Creatures in Trouble' and 'The Spread of Toxic Algae'.
- 2006, Jul Los Angeles Times: Series on 'Altered Oceans Part I: A Primeval Tide of Toxins'.
- 2006, Jun The Daily Breeze 'Tackling A Toxic Tide'

REFERENCES

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