

**COMMITTEE ON NATURAL RESOURCES**  
**118<sup>th</sup> Congress Disclosure Form**  
**As required by and provided for in House Rule XI, clause 2(g)(5)**

**Subcommittee on Water, Wildlife, and Fisheries**  
**Washington, DC, January 18, 2024**

**For Individuals:**

Name:  
Address:  
Email Address:  
Phone Number:

\* \* \* \* \*

**For Witnesses Representing Organizations:**

Name: Donald M. Anderson  
Name of Organization(s) You are Representing at the Hearing: Woods Hole Oceanographic Institution  
Business Address: [REDACTED]  
Business Email Address: [REDACTED]  
Business Phone Number: [REDACTED]

\* \* \* \* \*

**For Nongovernment Witnesses ONLY:**

1. Please attach/include current curriculum vitae or resume.

Attached

2. Please list any federal grants or contracts (including subgrants or subcontracts) related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the source and amount of each grant or contract.

1. J. Stegeman, D. Anderson, D. McGillicuddy, et al., NIH, Woods Hole Center for Oceans and Human Health, \$608,324
2. D. Anderson, R. Pickart, NSF, Origin and Fate of Harmful Algal Blooms in the Warming Chukchi Sea, \$332,106
3. D. Anderson, M. Richlen, NOAA, Cooperative Institute for the Northern Atlantic Region (CINAR) Additional Capacity, \$30,340.
4. D. Anderson, Non-Gov Grants/ Mote Mar Lab, Supplement, 06/01/2023, 05/31/2024, Double Indemnity for Karenia: Modifying Clay for Improved Cell and Toxin Removal, \$64,976
5. D. Anderson, Coop Inst (NOAA)/ NOAA-OAR-CPO, Distribution and Prevalence of Harmful Algal Blooms in Arctic Waters, \$52,650
6. D. Anderson, Subs (Gov-Other)/ CT-DOAG, Enhancing Connecticut's Harmful Algal Bloom Monitoring Program and Shellfish Safety through Advanced Analysis of the Neurotoxin-Producing Genera Alexandrium and Pseudo-nitzschia, \$74,982
7. M. Brosnahan, D, Anderson, HABON Northeast 2022-2023, submitted to NERACOOS.

8. D. McGuillicuddy, D. Anderson, NSF, Collaborative Research: Modeling the past and predicting the future of harmful algal blooms in the Pacific Arctic, \$599,846
9. D. McGuillicuddy, D. Anderson, M. Richlen, M. Brosnahan, et al., NSF/NIEHS, COHH renewal, Woods Hole Center for Oceans and Human Health, \$7,565,148
10. Anderson, D., Subs (NOAA Prime)/Coastal Ocean Vision, A CyanoHAB and Toxin Detection and Quantification Capability: Integration of Hyperspectral Imaging from Space, Autonomous Vehicles and Ground Truth using Raman Imaging Flow Cytometry, \$20,000

3. Please list any contracts or payments originating with a foreign government related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the amount and country of origin of each contract or payment.

Anderson, D., Use of an Autonomous Biosensor - The Imaging FlowCytobot (IFCB) for Enhanced Phytoplankton Monitoring of Reservoirs and Sea Waters in Singapore, Public Utility Board (PUB) Singapore, \$103,259

4. Please disclose whether you are a fiduciary (including, but not limited to, a director, officer, advisor, or resident agent) of any organization or entity that has an interest in the subject matter of the hearing.

5. Please list any current or pending litigation against the Federal government to which you or your organization is a party. Please disclose as applicable case name, docket number, the court, and subject matter of the litigation.

Biology Department,  
Woods Hole Oceanographic Institution  
Woods Hole, Massachusetts 02543

**EDUCATION**

- B.S. Mechanical Engineering, Massachusetts Institute of Technology, 1970
- M.S. Civil and Environmental Engineering, Massachusetts Institute of Technology, 1976
- Ph.D. Aquatic Sciences, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology, 1977

**POSITIONS**

- Director, Cooperative Institute for the North Atlantic Region (CINAR), 2009-present
- Director, Coastal Ocean Institute, Woods Hole Oceanographic Institution, 2004-2008
- Director, U.S. National Office for Harmful Algal Blooms (1995-present)
- Senior Scientist, Woods Hole Oceanographic Institution, 1991-present
- Associate Scientist, Woods Hole Oceanographic Institution, 1983-1991; tenure 1987
- Assistant Scientist, Woods Hole Oceanographic Institution, 1979-1983
- Postdoctoral Investigator, Woods Hole Oceanographic Institution, 1978-1979
- Instructor, Massachusetts Institute of Technology Department of Civil Engineering, 1978

**PROFESSIONAL SOCIETIES:**

- Phycological Society of America
- International Society for the Study of Harmful Algae

**AWARDS**

- Recipient, *Lifetime Research and Service Award*, US National Harmful Algal Bloom Committee (2019)
- Recipient, *Yasumoto Lifetime Achievement Award*, International Society for the Study of Harmful Algae; (ISSHA) (2006)
- Recipient, *Bostwick H. Ketchum Award* (international award for excellence in coastal marine science); Woods Hole Oceanographic Institution, (2017)
- Co-Recipient, *Pritchard Award*, (The best physical oceanography paper published in *Estuaries and Coasts* in a two-year interval, Coastal and Estuarine Research Federation (2017)
- Recipient, *President's International Fellowship for Distinguished Scientists* (formerly the Einstein Award), Chinese Academy of Sciences (2016)
- Recipient, *Dr. David L. Belding Award*, Massachusetts Marine Fisheries Advisory Commission (2005)
- Recipient, *Bruun Memorial Medal*, UNESCO Intergovernmental Oceanographic Commission, (IOC) (2005)
- Recipient, *Stanley W. Watson Chair for Excellence in Oceanography*, Woods Hole Oceanographic Institution (1993)
- Recipient, *NOAA Environmental Hero Award*, National Oceanic and Atmospheric Administration (1999)

**LEADERSHIP POSITIONS**

- U.S. Delegate to the *IOC Intergovernmental Panel on Harmful Algal Blooms, (IPHAB)* (1992- present)
- U.S. Representative, *Working Group on Harmful Algal Bloom Dynamics*, International Council for Exploration of the Seas; (ICES), (1986-present)
- Member, *Florida Harmful Algal Bloom Task Force*. Florida Fish and Wildlife Conservation Commission. (March 2018-present)
- Member, National Research Council *Committee on the Causes and Management of Coastal Eutrophication* (1998-1999)

Director, *NATO Advanced Study Institute on the Physiological Ecology of Harmful Algal Blooms*, Bermuda (1996)  
Chairman, *SCOR Working Group on Harmful Algal Blooms* (1992-1996)  
Member, International Advisory Committees, *Toxic Marine Phytoplankton Conferences*, Nos. 3- 19 (1985-present)  
Member, *PICES Working Group #15, Ecology of Harmful Algal Blooms* (1999-2004).  
U.S. Representative, *WESTPAC Task Team on Red Tides*, Intergovernmental Oceanographic Commission (1985 – 1990).  
Chairman, *Ad Hoc Group of Experts on Harmful Algal Blooms*, Intergovernmental Oceanographic Commission, (IOC) (1989)  
Fellow, *Cooperative Institute for Climate and Ocean Research* (CICOR), a Joint Institute of the Woods Hole Oceanographic Institution and the National Oceanic and Atmospheric Administration (1999-2002)  
Member, Scientific Steering Committee, *GEOHAB (The Global Ecology and Oceanography of Harmful Algal Blooms)* (1998-2003)

## **TESTIMONY AND BRIEFINGS**

Testimony before the Subcommittee on Oceans and Fisheries of the Committee on Commerce, Science, and Transportation, United States Senate 105<sup>th</sup> Congress, Second Session, May 20, 1998.  
Testimony for US Commission on Ocean Policy, 2002; prepared White Paper on *Harmful Algal Blooms* for inclusion in the Commission’s report “*Oceans and Human Health*”.  
Testimony before the Committee on Science, Subcommittee on Environment, Technology and Standards, U.S. House of Representatives Hearing on the *Harmful Algal Bloom and Hypoxia Research Amendments Act of 2003*, March 13, 2003.  
Testimony before the Subcommittee on Fisheries Conservation, Wildlife and Oceans, U.S. House of Representatives Hearing on H.R. 1856, the *Harmful Algal Bloom and Hypoxia Research Amendments Act of 2003*, February 26, 2004.  
Testimony, Subcommittee on Energy and Environment Hearing, *Harmful Algal Blooms: The Challenges on the Nation’s Coastline*, Washington, DC, July 10, 2008  
Testimony, Subcommittee on Energy and Environment Hearing, *Harmful Algal Blooms and Hypoxia: Formulating an Action Plan*, Washington, DC, September 17, 2009.  
Testimony, *Ocean Policy Task Force Public Meeting*, Providence, RI, September 24, 2009.  
Testimony, Subcommittee on Energy and Environment Hearing, *The Harmful Algal Blooms and Hypoxia Research and Control Amendments Act of 2011*, Washington, DC, June 1, 2011.  
Testimony, Subcommittee on Oceans, Atmosphere, Fisheries and Coast Guard of the Committee on Commerce, Science, and Transportation, United States Senate: Hearing on *Harmful Algal Blooms: Impacts on our National Waters*. Washington, DC, August 28, 2018.  
Briefing before the House Science Committee, *Coastal Nutrient Pollution and Harmful Algal Blooms*, September 24, 2003.  
Briefing before New England congressional staffers, *The 2005 New England red tide*, June 14, 2005.  
Congressional briefings, *Harmful Algal Blooms (Red Tides) and Ocean Health*, House of Representatives, and U.S. Senate, June 23, 2005.  
Briefing for Senate Subcommittee on Oceans Atmosphere, Fisheries and Coast Guard, October 2007  
Briefing: *Controlling Harmful Algal Blooms*, US House of Representatives, February 19, 2020.

## **EDITORIAL BOARDS**

Editorial Board member, *Journal of Phycology* (1986-1989) Associate Editor, *Journal of Phycology* (1993-1996)  
Editorial Board: *Marine Biotechnology and Molecular Biology* (1990)  
Editorial Board: *Protist* (1999-2004)  
Editorial Board: *Harmful Algae* (2001-present)

## **PATENTS:**

Genetic markers and methods of identifying *Alexandrium (Dinophyceae)* species. U.S. Patent No. 5,582,983. 12/10/96

## **COURSES TAKEN:**

“Energetics and Transport in Aquatic Plants,” J. Raven. Marine Biological Laboratory (1982).

“Workshop on Temperate Dinoflagellates,” F.J.R. Taylor. Friday Harbor Laboratories (1983).

“Quantitative Light Microscopy in Biology, Medicine, and Materials Science,” S. Inoue. Marine Biological Laboratory (1986).

“Molecular Biology and Biotechnology,” New England Biolabs Foundation; Smith College (1987).

Sabbatical - Department of Cellular and Molecular Biology, Laboratoire Arago, University of Paris 6, Banyuls-sur-mer, France (1989-90).

“Individual Cell and Particle Analysis in Oceanography,” NATO Advanced Study Institute, (October 1990).

“Exon-Intron Molecular Biology” course at Marine Biological Laboratory.

“The Physiological Ecology of Harmful Algal Blooms”, NATO Advanced Study Institute (Director) (May 1996).

## **STUDENT AND POSTDOCTORAL MENTORING**

Dr. Anderson served as the primary advisor to 19 MIT/WHOI Joint Program PhD students and has supervised 22 post-doctoral investigators.

## **PUBLICATIONS AND JOURNALS:**

Google Scholar metrics: 49,629 citations, h-index 114, i10-index 400.

<https://scholar.google.com/citations?user=pPaxGIEAAAJ&hl=en&inst=13845221006002888855&oi=ao>

1976 Morel, F. M. M. and D. M. Anderson. On the subject of red tide predictions from temperature patterns. *Limnology and Oceanography* 21(4): 625- 627.

1978 Anderson, D. M. and F. M. M. Morel. Copper sensitivity of *Gonyaulax tamarensis*. *Limnology and Oceanography* 23: 282-295.

1978 Anderson, D. M. and D. Wall. Potential importance of benthic cysts of *Gonyaulax tamarensis* and *G. excavata* in initiating toxic dinoflagellate blooms. *Journal of Phycology* 14: 224-234.

1979 Anderson, D. M. and F. M. M. Morel. Toxic dinoflagellate blooms in the Cape Cod region of Massachusetts. In: D. Taylor and H. H. Seliger, (Eds.), *Toxic Dinoflagellate Blooms, Proc. 2nd Int'l Conf.*, Elsevier-North Holland. pp. 145-150.

1979 Anderson, D. M. and F. M. M. Morel. The seeding of two red tide blooms by the germination of benthic *Gonyaulax tamarensis* hypnocysts. *Estuarine and Coastal Marine Science* 8: 279-293.

1979 Morel, F. M. M., J. G. Rueter, Jr., D. M. Anderson, and R. R. L. Guillard. Aquil: A chemically defined phytoplankton culture medium for trace metal studies. *Journal of Phycology* 15: 135-141.

1979 Morel, F. M. M., N. M. L. Morel, D. M. Anderson, D. M. McKnight and J. G. Rueter, Jr. Trace metal speciation and toxicity in phytoplankton cultures. In: F. S. Jacoff, (Ed.). *Advances in Marine Environmental Research*. EPA 600/9-79-035. pp 38-61.

1980 Anderson, D. M. The effects of temperature conditioning on the development and germination of *Gonyaulax tamarensis (Dinophyceae)* hypnozygotes. *Journal of Phycology* 16: 166-172.

- 1982 Anderson, D. M., D. M. Kulis, J. A. Orphanos, and A. R. Ceurvels. Distribution of the toxic dinoflagellate *Gonyaulax tamarensis* in the southern New England region. *Estuarine, Coastal and Shelf Science* 14: 447-458.
- 1982 Anderson, D. M., D. G. Aubrey, M. A. Tyler, and D. W. Coats. Vertical and horizontal distributions of dinoflagellate cysts in sediments. *Limnology and Oceanography* 27(4): 757-765.
- 1982 Tyler, M. A., D. W. Coats, and D. M. Anderson. Encystment in a dynamic environment: deposition of dinoflagellate cysts by a frontal convergence. *Marine Ecology Progress Series* 7: 163-178.
- 1982 Watras, C. J., S. W. Chisholm, and D. M. Anderson. Regulation of growth in an estuarine clone of *Gonyaulax tamarensis* Lebour: salinity-dependent temperature responses. *Journal of Experimental Marine Biology and Ecology* 62: 25-37.
- 1983 Anderson, D. M., S. W. Chisholm, and C. J. Watras. The importance of life cycle events in the population dynamics of *Gonyaulax tamarensis*. *Marine Biology* 76: 179-183.
- 1983 Turner, J. T. and D. M. Anderson. Zooplankton grazing during dinoflagellate blooms in a Cape Cod embayment, with observations of predation upon tintinnids by copepods. *Marine Ecology* 4: 359-374.
- 1984 Anderson, D. M. Shellfish toxicity and dormant cysts in toxic dinoflagellate blooms. In: E. Ragelis (Ed.). *Seafood Toxins*, ACS. Symposium Series. No. 262. pp. 125-138.
- 1984 Anderson, D. M., J. S. Lively, and R. F. Vaccaro. Copper complexation during spring phytoplankton blooms in coastal waters. *Journal of Marine Research* 42: 677-695.
- 1984 Anderson, D. M., D. M. Kulis, and B. J. Binder. Sexuality and cyst formation in the dinoflagellate *Gonyaulax tamarensis*: Cyst yield in batch cultures. *Journal of Phycology* 20: 418-425.
- 1984 Coats, D. W., M. A. Tyler, and D. M. Anderson. Sexual processes in the life cycle of the bloom-forming dinoflagellate *Gyrodinium uncatenum*: A morphogenetic overview. *Journal of Phycology* 20: 351-361.
- 1984 Stoecker, D. K., L. H. Davis, and D. M. Anderson. Fine scale spatial correlations between planktonic ciliates and dinoflagellates. *Journal of Plankton Research* 6: 829-842.
- 1984 Schrey, S. E., E. J. Carpenter, and D. M. Anderson. The abundance and distribution of the toxic dinoflagellate *Gonyaulax tamarensis* in Long Island estuaries. *Estuaries* 7: 472-477.
- 1984 Anderson, D. M. and B. A. Keafer. The distribution, abundance, and fate of nearshore dinoflagellate cyst accumulations. *International Council for the Exploration of the Sea, Biological Oceanography Committee*, C.M. 1984/C:6: 1-6.
- 1985 Anderson, D. M. Paralytic shellfish poisoning. In: Colwell, R.R. (Ed.), *Nature Toxins and Human Pathogens in the Marine Environment*. University of Maryland, College Park, MD.

- 1985 Anderson, D. M. and N. L. Lindquist. Time-course measurements of phosphorus depletion and cyst formation in the dinoflagellate *Gonyaulax tamarensis* Lebour. *Journal of Experimental Marine Biology and Ecology* 86: 1-13.
- 1985 Anderson, D. M., J. S. Lively, E. M. Reardon, and C. A. Price. Sinking characteristics of dinoflagellate cysts. *Limnology and Oceanography* 30: 1000-1009.
- 1985 Anderson, D. M., D. W. Coats, and M. A. Tyler. Encystment of the dinoflagellate *Gyrodinium uncatenum*: Temperature and nutrient effects. *Journal of Phycology* 21: 200-206.
- 1985 Anderson, D. M. and K. D. Stolzenbach. Selective retention of two dinoflagellates in a well-mixed estuarine embayment: the importance of diel vertical migration and surface avoidance. *Marine Ecology Progress Series* 25: 39-50.
- 1985 Anderson, D. M. and B. A. Keafer. Dinoflagellate cyst dynamics in coastal and estuarine waters. In: D. M. Anderson, A. W. White and D. G. Baden [Eds.], *Toxic Dinoflagellates, Proc. 3rd Int'l Conf.*, Elsevier, New York. pp. 219-224.
- 1985 Maranda, L., D. M. Anderson, and Y. Shimizu. Comparison of toxicity between populations of *Gonyaulax tamarensis* of eastern North American waters. *Estuarine Coastal and Shelf Science* 21: 401-410.
- 1985 Watras, C. J., V. C. Garcon, R. J. Olson, S. W. Chisholm, and D. M. Anderson. The effect of zooplankton grazing on estuarine blooms of the toxic dinoflagellate *Gonyaulax tamarensis*. *Journal of Plankton Research* 7(6): 891-908
- 1986 Binder, B. J. and D. M. Anderson. Green light-mediated photomorphogenesis in a dinoflagellate resting cyst. *Nature* 322: 659-661.
- 1986 Garcon, V. C., K. D. Stolzenbach, and D. M. Anderson. Tidal flushing of an estuarine embayment subject to recurrent dinoflagellate blooms. *Estuaries* 9: 179-187.
- 1986 Jacobson, D. M. and D. M. Anderson. Thecate heterotrophic dinoflagellates: feeding behavior and mechanisms. *Journal of Phycology* 22: 249-258.
- 1987 Anderson, D. M. and B. A. Keafer. An endogenous annual clock in the toxic marine dinoflagellate *Gonyaulax tamarensis*. *Nature* 325: 616-617.
- 1987 Anderson, D. M. and P. S. Lobel. The continuing enigma of ciguatera. *Biological Bulletin* 172: 89-107.
- 1987 Anderson, D. M., C. D. Taylor, and E. V. Armbrust. The effects of darkness and anaerobiosis on dinoflagellate cyst germination. *Limnology and Oceanography* 32: 340-351.
- 1987 Binder, B. J. and D. M. Anderson. Physiological and environmental control of germination in *Scrippsiella trochoidea* (Dinophyceae) cysts. *Journal of Phycology* 23: 99-107.
- 1987 Pfister, L. A. and D. M. Anderson. Dinoflagellate reproduction. In: Taylor, F.J.R. (Ed.), *The Biology of Dinoflagellates*. Blackwell Scientific Publications, Ltd. pp.611-648.

- 1988 Anderson, D.M., and T. P.-O. Cheng. Intracellular localization of saxitoxins in the dinoflagellate *Gonyaulax tamarensis*. *Journal of Phycology* 24: 17-22
- 1988 Anderson, D. M., D. M. Jacobson, I. Bravo and J. H. Wrenn. The unique microreticulate cyst of the naked dinoflagellate *Gymnodinium catenatum* Graham. *Journal of Phycology* 24: 255-262.
- 1988 Anderson, D. M., D. M. Nosenchuck, G. T. Reynolds and A. J. Walton. Mechanical stimulation of bioluminescence in the dinoflagellate *Gonyaulax polyedra* Stein. *Journal of Experimental Marine Biology and Ecology* 122: 277-288.
- 1988 Glibert, P. M., T. M. Kana and D. M. Anderson. Photosynthetic response of *Gonyaulax tamarensis* during growth in a natural bloom and in batch culture. *Marine Ecology Progress Series* 42: 303-309.
- 1988 Fraga, S., D. M. Anderson, I. Bravo, B. Reguera, K. A. Steindinger and C. M. Yentsch. Influence of upwelling relaxation on dinoflagellates and shellfish toxicity in Ria de Vigo, Spain. *Estuarine Coastal and Shelf Science* 27: 349-361.
- 1988 Lobel, P. S., D. M. Anderson and M. Durand-Clement. Assessment of ciguatera dinoflagellate populations: sample variability and algal substrate selection. *Biological Bulletin* 175: 94-101.
- 1988 Matsuoka, K., Y. Fukuyo and D. M. Anderson. The cyst and theca of *Gonyaulax verior Sournia* and their implication for the systematics of the genus *Gonyaulax*. *Japanese Journal of Phycology* 36: 311-320.
- 1989 Anderson, D. M. Toxic algal blooms and red tides: a global perspective. pp. 11-16. In: T. Okaichi, D. M. Anderson, and T. Nemoto (eds.), *Red Tides: Biology, Environmental Science and Toxicology*. Elsevier.
- 1989 Matsuoka, K., Y. Fukuyo and D. M. Anderson. Methods for modern dinoflagellate cyst studies. In: T. Okaichi, D. M. Anderson and T. Nemoto (Eds.). *Red Tides: Biology, Environmental Science and Toxicology*. Elsevier, New York, pp. 461-480.
- 1989 Anderson, D. M. Cysts as factors in *Pyrodinium bahamense* ecology. In: Hallegraeff, G. M. and J. L. MacLean (eds.). pp. 81-88. *Biology, Epidemiology and Management of Pyrodinium Red Tides*. Fisheries Department, Brunei Darussalam and International Center for Living Aquatic Resources Management, Manila.
- 1989 Anderson, D. M., D. M. Kulis and E. M. Coper. "Immunofluorescent Detection of the Brown Tide Organism *Aureococcus anophagefferens*". In: *Novel Phytoplankton Blooms: Causes and Impacts of Recurrent Brown Tide and Other Unusual Blooms*. E. M. Coper, E. J. Carpenter and M. Bricelj (Eds.). Springer-Verlag, New York, pp. 213-228.
- 1989 Anderson, D. M., J. J. Sullivan, and B. Reguera. Paralytic shellfish poisoning in northwest Spain: the toxicity of the dinoflagellate *Gymnodinium catenatum*. *Toxicon*. 27: 665-674.
- 1989 Caron, D. A., E. L. Lin, H. Kunze, E. M. Coper and D. M. Anderson. Trophic interactions between nano- and microzooplankton and the "brown tide". In: E. M. Coper, V. M. Bricelj and E. J. Carpenter (Eds.). *Novel Phytoplankton Blooms: Causes and Impacts of Recurrent Brown Tide and Other Unusual Blooms*. Springer-Verlag, New York, pp. 265-294.

- 1989 Franks, P. J. S. and D. M. Anderson. Sampling coastal dinoflagellate blooms: Equipment, strategies and data processing. In: Hallegraeff, G. M. and J. L. MacLean (Eds.). *Biology, Epidemiology, and Management of Pyrodinium Red Tides*. Fisheries Department, Brunei Darussalam and International Center for Living Aquatic Resources Management, Manila, pp. 235-254.
- 1989 Fritz, L., D. M. Anderson and R. E. Triemer. Ultrastructural aspects of sexual reproduction in the red tide dinoflagellate *Gonyaulax tamarensis*. *Journal of Phycology* 25: 95-107.
- 1989 Fraga, S., S. M. Gallagher and D. M. Anderson. Chain-forming dinoflagellates: an adaptation to red tides. In: T. Okaichi, D. M. Anderson and T. Nemoto (Eds.). *Red Tides: Biology, Environmental and Science and Toxicology*. Elsevier, New York. pp. 281-284.
- 1989 Franks, P. J. S., D. M. Anderson and B. A. Keafer. Fronts upwelling and coastal circulation: spatial heterogeneity of *Ceratium* in the Gulf of Maine. In: T. Okaichi, D. M. Anderson and T. Nemoto (Eds.). *Red Tides: Biology, Environmental Science and Toxicology*. Elsevier, New York, pp. 153-156.
- 1989 Geraci, J. A., D. M. Anderson, R. J. Timperi, D. J. St. Aubin, G. A. Early, J. A. Prescott and C. A. Mayo. Humpback whales (*Megaptera novaeangliae*) fatally poisoned by dinoflagellate toxin. *Canadian Journal of Fisheries and Aquatic Sciences* 46: 1895-1898.
- 1989 Hayhome, B. A., D. M. Anderson, D. M. Kulis and D. J. Whitten. Variation among congeneric dinoflagellates from the northeastern United States and Canada. I. Enzyme electrophoresis. *Marine Biology* 101: 427-435.
- 1989 Tracey, G. A., R. L. Steele, J. Gatzke, D. K. Phelps, R. Nuzzi, M. Waters and D. M. Anderson. Testing and application of biomonitoring methodologies for assessing environmental effects of noxious algal blooms. In: E. M. Coper, V. M. Bricelj and E. J. Carpenter (Eds.). *Novel Phytoplankton Blooms: Causes and Impacts of Recurrent Brown Tide and Other Unusual Blooms*. Springer-Verlag, New York, pp. 557-574.
- 1990 Anderson, D. M., Toxin variability in *Alexandrium species*. In: Graneli, E., L. Edler, B. Sundström and D. M. Anderson (Eds.). *Toxic Marine Phytoplankton*. Elsevier, New York, pp. 41-51.
- 1990 Anderson, D. M., D. M. Kulis, J. J. Sullivan, S. Hall and C. Lee. Dynamics and physiology of saxitoxin production by the dinoflagellates *Alexandrium* spp. *Marine Biology* 104: 511-524.
- 1990 Anderson, D. M., D. M. Kulis, J. J. Sullivan and S. Hall. Toxin composition variations in one isolate of the dinoflagellate *Alexandrium fundyense*. *Toxicon* 28: 885-893.
- 1990 Binder, B. J. and D. M. Anderson. Biochemical composition and metabolic activity of *Scrippsiella trochoidea* (*Dinophyceae*) resting cysts. *Journal of Phycology* 26: 289-298.
- 1990 Bricelj, V. M., J. H. Lee, A. D. Cembella and D. M. Anderson. Uptake kinetics of paralytic shellfish toxins from the dinoflagellate *Alexandrium fundyense* in the mussel *Mytilus edulis*. *Marine Ecology Progress Series* 63: 177-188.

- 1990 Bricelj, V. M., J. H. Lee, A. D. Cembella and D. M. Anderson. Uptake of *Alexandrium fundyense* by *Mytilus edulis* and *Mercenaria mercenaria* under controlled conditions. In: Graneli, E., L. Edler, B. Sundström and D. M. Anderson (Eds.). *Toxic Marine Phytoplankton*. Elsevier, New York, pp. 269-274.
- 1990 Cetta, C. M. and D. M. Anderson. Cell cycle studies of the dinoflagellate *Gonyaulax polyedra* Stein and *Gyrodinium uncatenum* Hulburt during asexual and sexual reproduction. *Journal of Experimental Marine Biology and Ecology* 135: 69-84.
- 1990 Lirdwitayaprasit, T., T. Okaichi, S. Montani, T. Ochi and D. M. Anderson. Changes in cell chemical composition during the life cycle of *Scrippsiella trochoidea* (Dinophyceae). *Journal of Phycology* 26: 299-306.
- 1990 Nakamura, Y., T. Umemori, M. Watanabe, D. M. Kulis and D. M. Anderson. Encystment of *Chatonella antiqua* in laboratory culture. *Journal of the Oceanographic Society of Japan* 46: 35-43.
- 1991 Schwinghamer, P., D. M. Anderson and D. M. Kulis. Separation and concentration of living dinoflagellate resting cysts from marine sediments via density gradient centrifugation. *Limnology and Oceanography* 36: 588-592.
- 1992 Anderson, D. M., A. Grabher and M. Herzog. Separation of coding sequences from structural DNA in the dinoflagellate *Crypthecodinium cohnii*. *Molecular Marine Biology and Biotechnology* 1: 89-96.
- 1992 Anderson, D. M. and B. A. Keafer. Paralytic shellfish poisoning on Georges Bank: in situ growth or advection of established dinoflagellate populations? *Proceedings of the Gulf of Maine Scientific Workshop*, Wiggin, J. and C. N. K. Moers (Eds.), Urban Harbors Institute, University of MA, Boston.
- 1992 Anderson, D.M. and A. W. White. Marine biotoxins at the top of the food chain. *Oceanus*, 35: 55-61.
- 1992 Franks, P. J. S. and D. M. Anderson. Alongshore transport of a toxic phytoplankton bloom in a buoyancy current: *Alexandrium tamarensis* in the Gulf of Maine. *Marine Biology* 112: 153-164.
- 1992 Franks, P. J. S. and D. M. Anderson. Toxic phytoplankton blooms in the southwestern Gulf of Maine: Testing hypotheses of physical control using historical data. *Marine Biology* 112: 165-174.
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