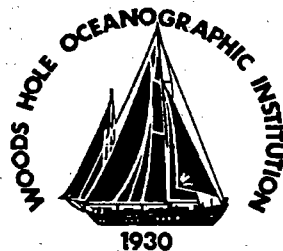


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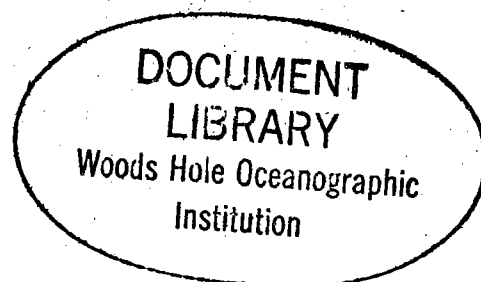
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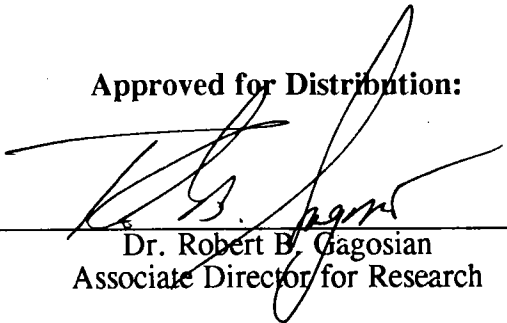
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**Technical Reports - 1990**

WHOI

**90-01 Zemanovic, Marguerite E., Philip L. Richardson and James F. Price.**  
SOFAR float Mediterranean Outflow Experiment. Summary and data from 1986 - 1988. Jan 1990. 246p. NTIS NO. PB90-191 974/AS.

WHOI

**90-02 Honjo, Susumu, Richard Krishfield and Albert Plueddemann.**  
The Arctic Environmental Drifting Buoy (AEDB). Report of field operations and results: August 1987-April 1988. Jan 1990. iv, 130p. NTIS NO. AD-A223 243.

WHOI

**90-03 Ostermann, Dorinda R., Darrell Karbott and W. B. Curry.**  
Automated system to measure the carbonate concentration of sediments. Feb 1990. 70p. NTIS NO. PB90-240 862.

WHOI

**90-04 Schweitzer, Peter Neil.**  
Inference of ecology from the ontogeny of microfossils. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Feb 1990. 194p. NTIS NO. PB90-240 243.

WHOI

**90-05 Coble, Paula G.**  
Marine bacteria as a source of dissolved fluorescence in the ocean. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Feb 1990. 276p. NTIS NO. PB90-241 829.

WHOI

**90-06 Lea, David W.**  
Foraminiferal and coralline barium as paleoceanographic tracers. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Feb 1990. 188p. NTIS NO. PB90-240 235.

WHOI

**90-07 Cook, M., L. Mangum, R. C. Millard, G. LaMontagne, S. Pu, J. Toole, Z. Wang, K. Yang and L. Zhao.**  
Hydrographic observations from the US/PRC Cooperative Program in the Western Equatorial Pacific Ocean: Cruises 1-4. Jan 1990. 384p. NTIS NO. PB90-265 976.

WHOI

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Universal criteria for blind deconvolution. Feb 1990. 32p. NTIS NO. AD-A220 853.

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Effects of solar ultraviolet radiation on biochemical dynamics in aquatic environments. Report of a workshop, Marine Biological Laboratory, Woods Hole, Massachusetts, October 23-26, 1989. Jan 1990. 204p. NTIS NO. AD-A221 119.

WHOI

90-10

**Prada, Kenneth E.**

Improved Meteorological measurements from buoys and ships (IMET) : Preliminary comparison of pyranometers. Mar 1990. 16p. NTIS NO. PB90-241 910.

WHOI

90-11

**Dragos, Paul and David, G. Aubrey.**

Atlantic Shelf sand ridge study: Physical oceanography and sediment dynamics data report. Feb 1990. 67p. NTIS NO. PB90-240 854.

WHOI

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**Fofonoff, Nick P., Ellen Levy, A. James Kettle and Richard C. Navitsky.**

Report on R.V. AKADEMIK VERNADSKY Cruise 39, Stage IV, June 17-July 17, 1989. Apr 1990. 90p. NTIS NO. PB90-240 177.

WHOI

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**Eiswerth, Mark E.**

Marine biological diversity: Report of a meeting of the Marine Biological Diversity Working Group. Mar 1990. 62p. NTIS NO. PB90-240 193.

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**Sharpe, Matthew M. and Hans C. Graber.**

Wind and wave climatology on the New England shelf May 1987 - August 1988. Feb 1990. 183p. NTIS NO. AD-A223 051.

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**Copley, Nancy J. and Peter H. Wiebe.**

Drawings and descriptions of some deep-sea copepods living above the Guaymas Basin hydrothermal vent field. Apr 1990. 66p. NTIS NO. PB90-265 984.

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**Armbrust, E. Virginia.**

The life cycle of the centric diatom Thalassiosira weissflogii: Control of gametogenesis and cell size. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jun 1990. 152p. NTIS NO. AD-A228 725.

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**Urry, Lisa Andrea.**

Analysis and distribution of integrins in chicken embryos. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jun 1990. 255p.

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**Crescenti, Gennaro H., Richard E. Payne and Robert A. Weller.**

Improved Meteorological measurements from buoys and ships (IMET): Preliminary comparison of humidity sensors. May 1990. viii, 59p. NTIS NO. PB90-265 992.

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Documentation for the CETACEA Database of Marine Mammal Literature  
References. Jun 1990. 113p. NTIS NO. AD-A225 088.
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Advanced Engineering Laboratory project summaries - 1989. May 1990.  
56p. NTIS NO. PB90-265 901.
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New England salt pond data book. 1988 Special Symposium on Coastal ponds  
and Lagoons held April 19, 1988 as part of the Spring meeting of the New  
England Estuarine Research Society. Sponsored by the Ecosystem Center,  
MBL and Waquoit Bay National Estuarine Research Reserve. Jun 1990. iv,  
116p. NTIS NO. PB91-200 345.
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VOICE - A spectrogram computer display package. Jun 1990. 98p. NTIS NO.  
AD-A225 214.
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Dinoflagellate blooms and physical systems in the Gulf of Maine. Ph.D.  
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Sedimentary lipids as indicators of depositional conditions in the coastal Peruvian upwelling regime. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Aug 1990. 211p.

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Moored current meter, AVHRR, CTD, and drifter data from the Agulhas Current and Retroflexion region (1985-1987) Volume XLII. Jul 1990. 100p. plus 1 floppy disk and 6 sheets of microfiche. NTIS No. AD-A237 209.

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Abstracts of manuscripts submitted in 1989 for publication. Jul 1990. 180p. NTIS NO. PB90-269 986.

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An exploration of the North Atlantic current and its recirculation in the Newfoundland Basin using SOFAR floats. Jul 1990. iv, 144. NTIS NO. AD-A226 475.

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The high speed buffer board - A SAIL EIA-485 communications accelerator card for the vector measuring current meter. Jul 1990. iii, 45p. NTIS NO. AD-A227 181.

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Sedimentation study, Environmental Monitoring and Operations Guidance System (EMOGS), Kings Bay, Georgia and Florida. Phase III-FY 1989. Aug 1990. 73p.

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Automated oxygen titration and salinity determination. Aug 1990. i, 25p.

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Trace element geochemistry of oceanic peridotites and silicate melt inclusions: Implications for mantle melting and ocean ridge magmagenesis. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Sep 1990. 261p.

- WHOI  
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Surface drifter measurements in the Western Equatorial Pacific Ocean  
Circulation Study (WEPOCS) III) June 1988-December 1989. Jun 1990. iv,  
129p. NTIS NO. PB91-173 054.
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Bibliography of technical reports, 1989. Aug 1990. 15p. NTIS NO.  
AD-A229 084.
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A SAIL compatible three channel acoustic navigation interrogator. Sep  
1990. 104p. NTIS NO. AD-A229 736.
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CTD electromechanical termination users manual. Aug 1990. 54p.
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Descriptions of W.H.O.I. rock dredge samples, Volume IV. Dec 1990.  
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The nutritional role of endosymbiotic bacteria in animal-bacteria  
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Joint Program in Oceanography and Oceanographic Engineering. Aug 1990.  
390p.
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Comparative design, modeling, and control analysis of robotic  
transmissions. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and  
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The Seadata Program. Oct 1990. 77p. NTIS NO. AD-A229 923.
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Altimeter processing tools for analyzing mesoscale ocean features. Sep  
1990. iv, 209p. NTIS NO. AD-A231 904.
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Arctic Remote Autonomous Measurement Platform post CEAREX engineering  
report. Nov 1990. 73p. NTIS NO. AD-A232 843.



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WHOI

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WHOI

90-50

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WHOI

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WHOI

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Developing a national marine electronics agenda: Proceedings of the Marine Instrumentation panel Meeting, September 12-14, 1989. Dec 1990. iv, 114p.

WHOI

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**Millard, R. C., B. J. Lake, N. L. Brown, J. M. Toole, D. Schaaf, K. Yang, H. Yu and L. Zhao.**

US/PRC intercalibration report 1986-1990. Dec 1990. 36p.

WHOI

90-54

**Geyer, W. Rockwell and Paul Dragos.**

Hydrodynamic baseline measurements in New Bedford Harbor. Dec 1990. 135p. NTIS NO. PB91-191 866/AS.

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