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Woods Hole, Massachusetts

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INTRODUCTION

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TECHNICAL REPORTS - 1982

WHOI

- 82-1 PING-TUNG PETER SHAW. The dynamics of mean circulation on the continental shelf. Ph.D. Thesis. Jan 82. 226 p. NTIS No. PB82-157082.
- 82-2 FRED WHORISKEY, JR. AND ROBERT NAIMAN. Effects of commercial fishing on adult Atlantic salmon (Salmo salar) in a Quebec river. Jan 1982. 17 p. NTIS No. PB82-156787.
- 82-3 DAVID G. AUBREY AND ARTHUR G. GAINES, JR. Recent evolution of an active barrier beach complex: Popponesset Beach, Cape Cod, Massachusetts. Jan 1982. 77 p. NTIS No. PB82-170010.
- 82-4 NELSON HOGG. Topographic waves along 70°W on the Continental Rise. Feb 1982. Contribution No. 4836: Journal of Marine Research 39(4): 627-649 (1981). NTIS No. AD-A111-131.
- 82-5 SCOTT M. GALLAGER AND ROGER MANN. Use of lipid-specific staining techniques for assaying condition in cultured bivalve larvae. Feb 1982. Contribution No. 4772: Journal of Shellfish Research 1(1): 69-73 (1981). NTIS No. AD-A111-120.
- 82-6 A. E. GARGETT, P. J. HENDRICKS, T. B. SANFORD and others. A composite spectrum of vertical shear in the upper ocean. Feb 1982. Contribution No. 4943: Journal of Physical Oceanography 11(9): 1258-1271 (September 1981). NTIS No. AD-A111-132.
- 82-7 M. W. ROTH, M. G. BRISCOE AND C. H. McCOMAS, III. Internal waves in the upper ocean. Feb 1982. Contribution No. 4659: Journal of Physical Oceanography 11(9): 1234-1247 (September 1981). NTIS No. AD-A111-133.
- 82-8 CLIFFORD L. WINGET, JOHN C. BURKE, DAVID L. SCHNEIDER and others. A self-powered system for in situ extraction of particulate and dissolved materials from large volumes of seawater. Feb 1982. 16 p. NTIS No. PB82-181116.
- 82-9 SHELLEY M. LAUZON. 1981 abstracts of papers submitted for publication. Apr 1982. 164 p. NTIS No. PB82-221649.
- 82-10 R. LIMEBURNER AND R. C. BEARDSLEY. Hydrographic station data obtained in the east China Sea, June, 1980. Mar 1982. 159 p.
- 82-11 KATHLEEN O'NEILL. Observations of vertically-trapped waves in the deep western Indian Ocean. Mar 1982. 161 p. NTIS No. AD-A113-565.

- 82-12 SAMUEL W. SMITH, JR. Analysis of the cathodic behavior of aluminum in natural seawater by surface chemistry. Sc.D. Thesis. Apr 1982. 179 p.
- 82-13 ANNE MARTINE TREHU. Seismicity and structure of the Orozco Transform Fault from ocean bottom seismic observations. Ph.D. Thesis. Apr 1982. 370 p. NTIS No. AD-A116-570.
- 82-14 ANNA MARIA PEIRSON. Bibliography of Technical Reports - 1981. Apr 1982. 17 p. NTIS No. PB82-237579.
- 82-15 JOHN W. FARRINGTON. Annual report of the Coastal Research Center of the Woods Hole Oceanographic Institution. Jan 1982. 44 p. NTIS No. PB82-201765.
- 82-16 ELLEN LEVY, ANN SPENCER, GERALD NEEDELL and others. A compilation of moored current meter data, White Horse profiles and associated oceanographic observations, Volume XXIX (Index, 1979). Apr 1982. 39 p. (5 fiche pages). NTIS No. AD-A117-699.
- 82-17 ROBERT L. BINDER. Xenobiotic monooxygenase activity and the response to inducers of cytochrome P-450 during embryonic and larval development in fish. Ph.D. Thesis. Apr 1982. 263 p.
- 82-18 EHUD WEINSTEIN. Optimal source localization and tracking from passive array measurements. Mar 1982. No Contribution No. IEEE Transactions; Acoustics, Speech and Signal Processing ASSP-30 (1): 69-76 (February 1982). NTIS No. AD-A113-794.
- 82-19 SCOTT M. GALLAGER, ROGER MANN, ROBERT D. PRUSCH and others. Abstracts from the Marine Biological Laboratory's general meetings of October 1981. The Biological Bulletin 161: 312, 315, 332 (October 1981). NTIS No. AD-A113-795.
- 82-20 ROBERT D. BALLARD, TJEERD H. VAN ANDEL AND ROBIN T. HOLCOMB. The Galapagos Rift at 86°W variations in volcanism, structure, and hydrothermal activity along a 30-kilometer segment of the rift valley. Apr 1982. Contribution No. 4782. Journal of Geophysical Research 87(B2): 1149-1161 (February 10, 1982). NTIS No. AD-A114-090.
- 82-21 MARSHALL H. ORR AND WILLIAM D. GRANT. Acoustics sensing of particles suspended by wave-bottom interactions. Apr 1982. Contribution No. 4627. Marine Geology 45: 253-260 (March 1981). NTIS No. AD-A114-306.
- 82-22 EHUD WEINSTEIN. Measurement of the differential doppler shift. Apr 1982. Contribution No. 4448. IEEE Transactions; Acoustics, Speech and Signal Processing ASSP-30(1): 112-117 (February 1982). NTIS No. AD-A114-157.
- 82-23 MICHAEL P. BACON AND JOHN N. ROSHOLT. Accumulation rates of TH-230, PA-231, and some transition metals on the Bermuda Rise. Apr 1982. Contribution No. 4830: Geochimica et Cosmochimica Acta 46: 641-666 (1982). NTIS No. AD-A115-087.

- 82-24 MICHAEL FERRIS COOK. Damping estimation, reponse prediction and fatigue calculation of an operational single pile platform. O.E. Thesis. May 1982. 153 p.
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- 82-26 FRANCES L. S. HOTCHKISS. Observed circulation and inferred sediment transport in Hudson Submarine Canyon. Ph.D. Thesis. Jun 1982. 224 p. NTIS No. AD-A116-235.
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- 82-28 BRIAN ROTHCHILD, RAPPORTEUR COLIN CLARK, RICHARD HENNEMUTH and others. Report of the Fisheries Ecology Meeting June 8-11, 1981. Jun 1982. 30 p. NTIS No. PB82-255092.
- 82-29 ROBERT J. NAIMAN. The Matamek Research Program: Annual Report for 1981. Jun 1982. 234 p. NTIS No. PB82-254277.
- 82-30 D. E. KOELSCH, K. R. PEAL AND G. M. PURDY. The Woods Hole Oceanographic Institution digital ocean bottom hydrophone instrument. Jun 1982. 15 p. NTIS No. AD-A116-375.
- 82-31 EDWARD K. SCHEER. Estimates of crustal transmission losses using MLM array processing. O. E. Thesis. Jul 1982. 82 p. NTIS No. AD-A117-278.
- 82-32 MARK DAVID KURZ. Helium isotope geochemistry of oceanic volcanic rocks: Implications for mantle heterogeneity and degassing. Ph.D. Thesis. Jul 1982. 290 p.
- 82-33 LYNNE D. TALLEY. Instabilities and radiation of thin, baroclinic jets. Ph.D. Thesis. Jul 1982. 233 p.
- 82-34 LAWRENCE J. PRATT. The dynamics of unsteady strait ANS sill flow. Ph.D. Thesis. Jul 1982. 141 p.
- 82-35 M. C. STALCUP, T. M. JOYCE, R. W. SCHMITT and others. Warm Core Ring Cruise #1 R/V ENDEAVOR Cruise No. 74. Jul 1982. 133 p.
- 82-36 STUART G. WAKEHAM, JEFFREY T. GOODWIN AND ALAN C. DAVIS. Volatile organic compounds in Narragansett Bay, Rhode Island. Aug 1982. 62 p.
- 82-37 ROBERT C. MILLARD AND NANCY GALBRAITH. WHOI processed CTD data organization. Aug 1982. 36 p. NTIS No. AD-A119-500.
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- 82-39 RICHARD LIMEBURNER AND R. C. BEARDSLEY. Hydrographic station data obtained in the East China Sea, August, 1981. Aug 1982. 74 p.
- 82-40 P. E. SPEER, D. G. AUBREY AND E. RUDER. Beach changes at Nauset Inlet, Cape Cod, Massachusetts 1670-1981. Aug 1982. 92 p. NTIS No. PB83-101170.
- 82-41 KEITH F. BRADLEY. Technical activities associated with an exploratory array in the Western North Pacific. Sep 1982. 40 p.
- 82-42 JOHN W. FARRINGTON, ROBERT W. RISEBROUGH, PATRICK L. PARKER and others. Hydrocarbons, polychlorinated biphenyls, and DDE in mussels and oysters from the U. S. coast, 1976-1978 - The Mussel Watch. Oct 1982. 105 p. NTIS No. PB83-133371.
- 82-43 ELLEN LEVY, SUSAN A. TARBELL AND N. P. FOFONOFF. A compilation of moored instrument data and associated oceanographic observations, Volume XXX (Gulf Stream extension and Norwegian Sea overflow intrusion experiments) 1979-1980. 1982. 62 p. & 5 microfiche.
- 82-44 R. LIMEBURNER AND R. C. BEARDSLEY. Hydrographic station data obtained in the East China Sea, November 1981. Oct 1982. 49 p.
- 82-45 GEORGE VERONIS, DIRECTOR AND FLORENCE MELLOR, EDITOR. 1982 Summer Study Program in Geophysical Fluid Dynamics. Particle motions in fluids. Nov 1982. 336 p. NTIS No. AD-A122-864.
- 82-46 DANIEL JAMES REPETA. Transformations of carotenoids in the oceanic water column. Ph.D. Thesis. Nov 1982. 241 p. NTIS No. AD-A121-499.
- 82-47 KENNETH GEORGE MILLER. Late Paleogene (Eocene to Oligocene) paleoceanography of the northern North Atlantic. Ph.D. Thesis. Nov 1982. 299 p. NTIS No. AD A121-674.
- 82-48 T. M. JOYCE, S. R. RINTOUL, JR. AND R. L. BARBOUR. Description and evaluation of the Acoustic Profiling of Ocean Currents (APOC) System used on R. V. OCEANUS Cruise 96 on 11-22 May 1981. Nov 1982. 52 p.
- 82-49 TERESA KATHLEEN CHERESKIN. The development of nonlinear surface and internal wave groups. Ph.D. Thesis. Nov 1982. 327 p.
- 82-50 ROGER WILLIAM BURKE. Free surface flow through salt marsh grass. Ph.D. Thesis. Dec 1982. 252 p.
- 82-51 J. S. ALLEN, R. C. BEARDSLEY, W. S. BROWN and others. A preliminary description of the CODE-1 Field Program. Dec 1982. 47 p.
- 82-52 G. T. CSANADY. Frictional secondary circulation near an upwelled thermocline. Dec 1982. 28 p. NTIS No. PB83-162024.

- 82-53 RICHARD P. TRASK, MELBOURNE G. BRISCOE AND NANCY J. PENNINGTON. Long Term Upper Ocean Study (LOTUS). Dec 1982. 107 p. NTIS No. AD-A124-362.
- 82-54 LINCOLN BAXTER II, EARL E. HAYS, GEORGE R. HAMPSON and others. Mortality of fish subjected to explosive shock as applied to oil well severance on Georges Bank. Dec 1982. 69 p.
-

W.H.O.I. CONTRIBUTION NUMBERS WITH CORRESPONDING REPORT NUMBERS:

<u>Contribution No.</u>	<u>Report</u>
4448	82-22
4627	82-21
4659	82-7
4772	82-5
4782	82-20
4830	82-23
4836	82-4
4943	82-6

AUTHOR INDEX

Allen, J. S. 82-51	Csanady, G. T. 82-52
Aubrey, David G. 82-3, 40	Davis, Alan C. 82-36
Bacon, Michael P. 82-23	Farrington, John W. 82-15, 42,
Ballard, Robert D. 82-20	Fofonoff, N. P. 82-43
Barbour, R. L. 82-48	Gailbraith, Nancy 82-37
Baxter, Lincoln II 82-54	Gaines, Arthur G., Jr. 82-3
Beardsley, R. C. 82-10, 39, 44, 51	Gallager, Scott M. 82-5, 19
Binder, Robert L. 82-17	Gargett, A. E. 82-6
Bradley, Keith F. 82-41	Goodwin, Jeffrey T. 82-36
Briscoe, Melbourne G. 82-7, 53	Grant, William D. 82-21
Broadus, James 82-38	Groman, Robert Carl 82-27
Brown, W. S. 82-51	Hampson, George R. 82-54
Burke, John C. 82-8	Hays, Earl E. 82-54
Burke, Roger William 82-50	Hendricks, P. J. 82-6
Chereskin, Teresa Kathleen 82-49	Hennemuth, Richard 82-28
Clark, Rapporteur Colin 82-28	Hogg, Nelson 82-4
Cook, Michael Ferris 82-24	Holcomb, Robin T. 82-20

Hotchkiss, Frances L. S.
82-26

Joyce, T. M.
82-48, 35

Knecht, Robert W.
82-38

Koelsch, D. E.
82-30

Kurz, Mark David
82-32

Lauzon, Shelley M.
82-9

Levy, Ellen
82-43, 16

Limeburner, R.
82-10, 39, 44

Mann, Roger
82-5, 19

McComas, C. H., III
82-7

Mellor, Florence
82-45

Millard, Robert C.
82-37

Miller, Kenneth George
82-47

Naiman, Robert J.
82-29, 2

Needell, Gerald
82-16

O'Neill, Kathleen
82-11

Orr, Marshall H.
82-21

Parker, Patrick L.
82-42

Peal, K. R.
82-30

Peirson, Anna Maria
82-14

Pennington, Nancy J.
82-53

Pratt, Lawrence J.
82-34

Prusch, Robert D.
82-19

Purdy, G. M.
82-30

Repeta, Daniel James
82-46

Rintoul, S. R., Jr.
82-48

Risebrough, Robert W.
82-42

Rosholt, John N.
82-23

Ross, David A.
82-38

Roth, M. W.
82-7

Rothchild, Brian
82-28

Ruder, E.
82-40

Sanford, T. B.
82-6

Scheer, Edward Kurt
82-31

Schmitt, R. W.
82-35

Schneider, David L.
82-8

Shaw, Ping-Tung Peter
82-1

Smith, Samuel W., Jr.
82-12

Speer, P. E.
82-40

Spencer, Ann
82-16

Stalcup, M. C.
82-35

Takahashi, Kozo
82-25

Talley, Lynne D.
82-33

Tarbell, Susan A.
82-43

Trask, Richard P.
82-53

Trehu, Anne Martine
82-13

van Andel, Tjeerd H.
82-20

Veronis, George
82-45

Wakeham, Stuart G.
82-36

Weinstein, Ehud
82-18, 22

Whoriskey, Fred, Jr.
82-2

Winget, Clifford L.
82-8

WHOI REF.	70-70	Bibliography of reports, 1970	NTIS No. AD-722 598
	71-78	Bibliography of reports, 1971	NTIS No. AD-782 993
	72-96	Bibliography of reports, 1972	NTIS No. PB-221 079
	73-93	Bibliography of reports, 1973	NTIS No. AD-782 998
	74-105	Bibliography of reports, 1974	NTIS No. AD-A016 589
	75-69	Bibliography of reports, 1975	NTIS No. AD-A031 402
	76-116	Bibliography of reports, 1976	NTIS No. AD-A039 662
	78-33	Bibliography of reports, 1977	NTIS No. AD-A055 041
	79-31	Bibliography of reports, 1978	NTIS No. PB-295 727
	80-14	Bibliography of reports, 1979	NTIS No. PB-80-169964
	81-9	Bibliography of reports, 1980	NTIS No. PB 81-185167
	82-14	Bibliography of reports, 1981	NTIS No. PB 82-237579
	83-2	Bibliography of reports, 1982	

SUMMARIES

WHOI Ref.	76-49	Abstracts of papers submitted in 1975 for publication
	77-3	Abstracts of papers submitted in 1976 for publication
	78-6	Abstracts of papers submitted in 1977 for publication
	79-37	Abstracts of papers submitted in 1978 for publication
	80-22	Abstracts of papers submitted in 1979 for publication
	81-36	Abstracts of papers submitted in 1980 for publication
	82-9	Abstracts of papers submitted in 1981 for publication
	83-3	Abstracts of papers submitted in 1982 for publication