Research Collaborator, Zoological Station, Naples, Italy
Research Collaborator, Marine Fisheries Institute, Ancona Italy
Associate Editor, Continental Shelf Research
Editorial Board, Scientia Marina, Institute of Marine Science, Barcelona

Oceanographic Cruises
Participated on 75 oceanographic cruises; Served as Chief Scientist on 48 of them.

Research Interests:
Thermohaline Circulation & Water Mass Analysis
Wind-Driven Circulation & Air-Sea Interaction
Modelling: Ecosystem, Circulation
Eutrophication in Coastal Marine Systems
Sustainable Management of Coastal Zones
Earth-Systems Simulation Modelling

Academic Courses Taught:
Univ. Wash: OC 100 Introduction to Oceanography
NRC-Greece: Physical Oceanography
SUNY: Physical Oceanography
NCSU: MEA 200 Introduction to Oceanography
NCSU: MEA 430 Scientific Concepts and Global Problems (originated course in Spring '92)
NCSU: ES 100 Introduction to Environmental Science (originated course in Spring '95)
NCSU: ES 400 Simulation Modelling in Environmental Science (originated course in Spring '96)
NCSU: MEA 593 Special Topics in Oceanography
ICTP, Univ. Ancona, Univ. Aveiro, Univ. Algarve: Short course in Earth Systems Modelling for Coastal Zone Resource Management

Recent Grants at NCSU:
1. Improved methodology of Assessing the Impacts of the Aegean-Black Sea Exchange. Co-PI with Dr. Evgeny Lemeshko, MHI Sevastopol. US Civilian Research & Development Foundation. $79,500 2 years from spring 2002..
2. Drafting intelligent strategies for monitoring and modeling the Black Sea-Aegean exchange. PI, NSF Office of International Affairs. $9,975. 1 year from March 2001.
3. Biocomplexity – Incubation Activity-Interactions between Life and Environment in the Coastal Zone, North Carolina, PI, NSF, $71K, 15 months from Fall 2000.
4. Earth Systems Sciences Course in Watershed & Coastal Zone Simulation Modelling, PI, $55K, 2 – 13 Oct 2000 at International Center for Theoretical Physics, Trieste, IT
5. Summer circulation patterns and model validation data for the Pamlico Sound, PI, NOAA/Sea Grand, $5.8K, Summer '99.
6. Adjusted Sea Levels of the Black Sea from Hydrographic Data, PI, NATO Linkage Grant, $20K, two years from 1 March 1999.
7. The Physical Forcing of the Salt Wedge and Associated Environmental Parameters in the Neuse River Estuary, PI, NOAA/Sea Grant, $5.9K, Summer '98.
8. Integrated Earth System Science Education, NCSU Course Development, PI, Universities Space Research Assoc. $25K, 1 yr, from 1 Oct 97.
9. Scientific Consultant to the Italian National Marine Research Program of the Adriatic Sea., PI, CNR/IRSA, $42K, 1 yr from Mar '97.
10. Remote sensing of the Adriatic sea surface temperature, Co-PI, NSF US-Croatian Program, $31K, '96 – '99.
9. Upper Ocean Responses of the Canadian Basin to Climate Change (AASERT) PI, ONR, $88K, 3yrs from Sep. '96.
12. Status of Adriatic Research, PI (Ed. of Proceedings) EEC/Environment, PI, $ 9K, 1 Oct - 1Apr 97.
11. The Entry of Bering Sea Water into the Canadian Basin Gyre, PI, ONR, $138K, 2 yrs from Apr '96.
13. Circulation and Transport Processes near Cape Hatteras, Co-PI, DOE, $1,700K, 2yrs from Jan '96.
14. Eutrophic Limits of the Northern Adriatic, PI, EEC, $1,200K (NCSU $151K) 3 yrs from Mar '93.
15. Collaborative Research in the Northeast Water Polynya: Water Mass and Air-Sea-Ice Interaction, PI, NSF, $680K (to NCSU $400K) 3 yrs from Feb '93 .

16. Preparation of Northwestern Approaches Group (Faeroe-Shetland Channel) Currents Overview, Phase III, $13K, 1 yr from 1992, METOCEAN, pls

Current Research Grant: Science and Policy Integration for Coastal Systems Assessment, Science Coordinator (with D. Bailly, IFREMER), EU Integrated Project, 10,000,000 euros (54 Partners from 22 countries, 4yrs from Feb. '07. <=http://www.spicosa.eu>

PUBLICATIONS

THESES:

Hamilton, R.C. and T.S. Hopkins. 1967. The physical oceanography of Lake Nitinat, a fjord on the southeast coast of Vancouver Island, British Columbia. Seattle, University of Washington, Department of Oceanography Special Report, 52 pp. (Masters Thesis)

Hopkins, T.S. 1971. Velocity, temperature, and pressure observations from moored meters on the shelf near the Columbia River mouth, 1967-69. Seattle, University of Washington, Dept. of Oceanography Special Report 45, 143, pp. (Doctoral Thesis)

INTERNATIONAL REVIEW JOURNALS:

Smith, R.L., D.B. Enfield, T.S. Hopkins, and R.D. Pillsbury. 1971. The circulation in an upwelling ecosystem: the PISCO cruise. Investigation Pesquera 35(1), 197 pp

Smith, R.L., D.B. Enfield, T.S. Hopkins, and R.D. Pillsbury. 1971. The circulation in an upwelling ecosystem: the *Pisco* cruise. Investigation Pesquera, Vol. 35(1): 9-24.

Hopkins, T.S. 1974. On time dependent wind induced motions. Rapp. P. v. Reun. Cons. int. Explor. Mer 167:21-36.

Hopkins, T.S. 1974. The circulation in an upwelling region, the Washington coast. Tethys, 6(103):375-390.

Papacostides, G., G.B. Griggs, A.P. Grimanis, T.S. Hopkins, and D. Zafiropoulos. 1975. Heavy metals in sediments from the Athens sewage outfall area. Mar. Poll. Bull. 5(9): 136-319.

Couchman, L.K., T.S. Hopkins, and R.C. Dugdale. 1976. Water masses of Saronikos Gulf in winter. Acta Adriatica 18(9): 133-161.

Hopkins, T.S., L.K. Couchman, and R.F. Edwards. 1976. Seasonal changes in Elefis Bay, Greece. Rapp. Comm. Int. Mer Medit. 23: 77-80.

Hopkins, T.S., G. Spiropoulos, and M. Lambiri. 1976. Variability in winter surface chlorophyll distributions, Saronikos Gulf. Rapp. Comm. Int. Mer Medit. 23(9): 75-55.

Kronfield, P.H. and T.S. Hopkins. 1976. Wave mixing in the Saronikos Gulf. Rapp Comm. Int. Mer Medit. 23:81-84.

Griggs, G.B. and T.S. Hopkins. 1976. The delineation and growth of a sludge field. Water Research 10.

Hopkins, T.S. 1977. Co-Editor. Marine ecosystem modeling in the Eastern Mediterranean. UNESCO Reports in Marine Science, No. 1, pp. 84.

Hopkins, T.S. 1977. Co-Editor. Marine ecosystem modeling in the Mediterranean. UNESCO Reports in Marine Science, No. 2, pp. 110.

Hopkins, T.S. and GONEG. 1978. The existence of the Levantine intermediate water in the Gulf of Naples. Rapp. Comm. Int. Mer Medit. 24.

Dugdale, R.C. and T.S. Hopkins. 1978. Predicting the structure and dynamics of a pollution-driven marine ecosystem embedded in an oligotrophic sea. Thalassia Jugoslavica 14((1-2): 107-126.

Hopkins, T.S. and Garfield. 1979. The Gulf of Maine Intermediate Water. J. Mars. Res. 37(1): 103-139.

Carrada, G.C., T.S. Hopkins, G. Bonadusce, A. Ianora, D. Marino, M. Modigh, M. Ribera d'Alcala, and Scoto de Carlo. 1980. Variability in the hydrographic and biological features of the Gulf of Naples. Marine Ecology 1(2): 105-120.

Falkowski, P.G., T.S. Hopkins, and J.J. Walsh. 1980. An analysis of factors affecting oxygen depletion within the New York Bight. J. Mar. Res. 38(3): 479-506.

Hopkins, T.S. and N. Garfield. 1981. Physical origins of Georges Bank Water. J. Mar. Res. 39(3): 465-500.

Hopkins, T.S. 1982. On the sea level forcing of the Mid-Atlantic Bight. J. Geophys. Res. 87(C3): 1997-2006.

Malone, T.C., P.G. Falkowski, G.T. Rowe, T.S. Hopkins, and T.E. Whitledge. 1983. Mesoscale response of diatom populations to a wind event in the plume of the Hudson River. Deep Sea Research Vol. 30, No. 2A: 149-170.

Malone, T.C., T.S. Hopkins, P.G. Falkowski, T.E. Whitledge. 1982. Production and transport of phytoplankton biomass over the continental shelf of the New York Bight. Cont. Shelf Research Vol. 1, No. 4:305-337.

Falkowski, P.G., J. Vidal, T.S. Hopkins, G.T. Rowe, T.E. Whitledge, and W. G. Harrison. 1983. Summer nutrient dynamics in the Middle Atlantic Bight: Primary production and utilization of phytoplankton carbon. J. Plank. Res. Vol. 5, No. 4: 515-537.

Hopkins, T.S. 1983. Chief Editor. Workshop on quantitative analysis and simulation of Mediterranean coastal ecosystems, Ischia, Naples, Italy, April 1981. UNESCO Reports in Marine Science No. 20, pp. 158.

Hopkins, T.S. and D.A. Dieterle. 1983. An externally forced barotropic circulation model for the New York Bight. Cont. Shelf Research, Vol. 2, No. 1: 49-73.

Hopkins, T.S., E. Salusti, and D. Sentini. 1984. Tidal forcing of the water mass interface in the Strait of Messina. J. Geophys. Res. 89(C2): 2013-2024.

Niedoroda, A.W., D.J.P. Swift, T.S. Hopkins, and C. Mean-Ma. 1984. Shoreface morphodynamics on wave dominated coasts. Marine Geology, 60: 331-354.

Swift, D.J.P., A.W. Niedoroda, C.E. Vincent, T.S. Hopkins. 1985. Barrier Island evolution, Middle Atlantic Shelf, U.S.A., Part I: Shoreface dynamics. Marine Geology, 63:331-361.

Hopkins, T.S. and D.A. Dieterle. 1986. Particle dispersal in the New York Bight Apex. Rapp. P-V Reun. Cons. Int. Explor. Mer. 186: 128-149.

Hopkins, T.S. and L.A. Slatest. 1986. The vertical eddy viscosity in the presence of baroclinic flow in coastal waters. J. Geophys. Res. Vol. 91, C12: 14269-14280.

Hopkins, T.S. and A.L. Stuebenda. 1986. The Nearshore Circulation Off Long Island - August 1978. Cont. Shelf Res. Vol. 5 p. 431-473.

Hopkins, T.S. and D.A. Dieterle. 1987. Analysis of the baroclinic circulation of the New York Bight with a 3-D diagnostic model. Cont. Shelf Res., Vol. 7(3): 237-265.

Hopkins, T.S. 1988. Recent observations on the intermediate and deep water circulation in the southern Tyrrhenian Sea. Oceanologica Acta. SP: 41-50.

Manzella, G.M.R., T.S. Hopkins, P.J. Minnett and E. Nacini. 1989. The North Atlantic Water in the Strait of Sicily. J. Geophys. Res. C2 (95).

Astraldi, M., G.P. Gasparini, T.S. Hopkins, G. Manzella. - 1990. Temporal variability of currents in the eastern Ligurian Sea. J. Geophys. Res. 95(C2):515-152

Povero, P., T.S. Hopkins, M. Fabiano. 1990. Oxygen and nutrient observations in the Southern Tyrrhenian Sea. Oceanologica Acta. 13(3): 299-305.

Hopkins, T.S. 1991. The GIN Sea - A synthesis of its physical oceanography and literature review 1972-1985. Earth-Science Reviews, (30): 175-318.

Perkins, H., F.J. Sherwin and T.S. Hopkins. 1993. Amplification of tidal currents by overflow on the Iceland Faeroe Ridge. J. Physical Oceanography, Vol. 24 (4): 721-735.

Wallace, D., P. Minnett and T.S. Hopkins. 1995. Nutrients, oxygen and inferred new production in the Northeast Water Polynya, 1992. Special Issue on Leads and Polynyas, J. Geophys. Res. Vol. 100 C3: 4323-4340.

Böhm E., P.J Minnett and T.S. Hopkins. 1995. Passive microwave observations of the interannual variability of ice cover in the NEWP: 1970-91. In: J. Mar. Syst.: 10: 1-4.

Ashjian C.J., S.L. Smith, F Bignami, T.S. Hopkins and P.V.Z. Lane. 1995. Distribution of zooplankton in the Northeast Water Polynya during Summer 1992. J. Mar. Syst.: 10: 1-4

Bignami, F. and T.S. Hopkins. 1995. The water-mass distribution in the northeastern water polynya (NEWP), 1992-1993. J. Mar. Syst.: 10: 1-4

Minnett, P.J., F. Bignami, E. Böhm, G. Budeus, P.S. Guilbaulb, P. Gudmandsen, T.S. Hopkins, T.G. Ingram, M.A. Johnson, H.J. Niebauer, R.O. Ramseier, and W. Schneider. 1996. A summary of the formation and seasonal progression of the Northeast Water Polynya, J. Mar. Syst.: 10: 279-298.

Hopkins, T.S. 1996. A note on the geostrophic velocity field referenced to a point., Cont. Shelf Res. Vol. 16(12): 1621-1630.

Bohm, E., T.S. Hopkins, P.J. Minnett. 1997. Passive microwave observations of the Northeast Water Polynya interannual variability: 1978-1994. J. Mar. Syst. 10: 87-98.

Wallace, D.W.R., K.M. Johnson, P.J. Minnett, T.S. Hopkins and P.L. Yager. 1999. Inorganic carbon, oxygen and nutrients in the Northeast Water Polynya, 1993. J. Mar. Systems. 1997.

Perkins, H., T.S. Hopkins, S.-A. Malmberg, P.-M. Poulain, and a. Warn-Varnas. 1997. Oceanographic conditions east of Iceland. J Geophys. Res. Vol. 103, C10: 21,531-21,542.

Hopkins, T.S. 1998. Author's reply to the geostrophic velocity field in shallow water over topography by H. Charnock and P. D. Killworth. Cont. Shelf Res. Vol. 18(1): 119-120.

Hopkins, T.S. 1999. The thermohaline forcing of the Gibraltar exchange. J. Mar. Syst.: 20: 1-31.

Smeltzer Jr., W. M. P. Schlosser, G. Bonisch, and T.S. Hopkins. 1999. Renewal and circulation of intermediate waters in the Canadian Basin observed on the SCICEX-96 cruise. J. Geophys. Res. Vol.105, C1: 1,105-1,121.

Hopkins, T. S., 1999. Physical control of the eutrophic response in the Northern Adriatic, illustrated by a nitrogen budget from ELNA data. Annali dell'Istituto Superiore di Sanità , Vol. 35 (3), Rome.

Vijayakumar, M., J.M. Morrison, T.S. Hopkins and E. Bohm. 1999 . Advection of upwelled waters in the form of plumes off Oman during the Southwest Monsoon. J Geophys. Res.

Logan, D.G., J.M. Morrison, L.J. Pietrafesa, T.S. Hopkins, J. Churchill, 2000. Physical oceanographic processes affecting inflow/outflow through Beaufort Inlet, North Carolina. J. Coastal Research, 16(4): 111-1125.

Hopkins, T.S. 2001. Thermohaline feedback loops and natural capital. *Scientia Marina,* 65 (Suppl.2): 233-258.

Hopkins, T.S. 2002. Abiotic variability and biocomplexity in the Northern Adriatic, some research perspectives.. *Biol. Mar. Medit.* 9(1): 1-47.

Figueiredo da Silva, J., R.W. Duck, T.S. Hopkins, and M. Rodrigues. 2003 Managing the nutrient inputs to a coastal lagoon: the case of the Ria de Aveiro, Portugal. Marine Pollution Bulletin.

Raffa, F. T.S. Hopkins. 2004. Circulation and water mass structure over a narrow shelf, Augusta Gulf (Sicily). Chemistry and Ecology, Vol. 20 (Suppl. 1): S249-S266.

Decembrini, F. T.S. Hopkins, F. Azzaro. 2004 Variability and sustenance of the deep-chlorophyll maximum over a narrow shelf, Augusta Gulf (Sicily). Chemistry and Ecology, Vol. 20 (Suppl. 1): S231-S247.

Bohm, E., L.J. Pietrafesa. T.S. Hopkins, J.H. Churchill. 2006. Continental Slope Sea Level and Flow Variability Induced by Lateral Movements of the Gulf Stream in the Middle Atlantic Bight. Spec. Issue Prog. Oceanogr.

BOOKS and CHAPTERS:

Smith, J.D. and T.S. Hopkins. 1971. Sediment transport on the continental shelf off Washington and Oregon in light of recent current measurments. In: Shelf Sediment Transport. Dowden, Hutchinson and Ross, Inc., pp. 143-180.

Hopkins T.S. 1978. Physical Processes in Mediterranean Basins. In: B. Kjerfve (Editor) Estuarine Transport Processes, The Bell W. Baruch Library in Marine Science Number 7, Univ. South Carolina Press, Columbia, South Carolina, 269-318pp.

Hopkins, T.S. 1985. Physics of the sea. In: Western Mediterranean. R. Margalef (Ed.), Chapt. IV, Pergamon Press, Oxford, 363 pp.

Niedoroda, A.W., D.J.P. Swift, and T.S. Hopkins. 1985. The Shoreface. In: Coastal Sedimentary Environment, R.A. Davis, Jr. (Ed.), Chap. 8, Springer-Verlag, New York.

Hopkins, T.S. and S. SethuRaman. 1987. Atmospheric variables and patterns. Chapt. 7. In: Georges Bank, Editor, R. Backus. The MIT Press, Cambridge, Mass., 593 pp.

Minnett, P.J. and T.S. Hopkins. 1991. Aspects of Oceanographic Variability Observed from Thermistor Chains on Free-Drifting Buoys. In: Ocean Variability and Acoustic Propagation, Eds. J. Potter and A. Warn-Varnas, Kluwer Academic Publishers, Dordrecht, NL, 391-406.

Gacic, M., T.S. Hopkins, and A. Lascaratos. 1992. Aspects of the Response of the Mediterranean Sea to Long-Term Trends in Atmospheric Forcing. In: Climate Change and the Mediterranean, Eds: L. Jeftic, J.D. Milliman and G. Sestini. UNEP, Edward Arnold, London: 233-246.

Boisvert, W., T. Hopkins, M. Kuzmic. 1999. The Inland Sea: Circulation of Chesapeake Bay and the Northern Adriatic. In: Malone, T.C., A. Malej, L.W. Harding Jr., N. Smodlaka and R. E. Turner (Eds.) Ecosystems at the Land-Sea Margin, Drainage Basin to Coastal Sea, Coastal and Estuarine Studies No 55, Am. Geophys. Union, 381 pp.

Hopkins, T.S., A. Artegiani, G. Cauwet, D. Degobbis., A. Malij (Eds.) 1999. The Adriatic Sea, Ecosystem Research Report No. 32, EUR 18834, European Commission, Brussels, pp. 638.

Bignami, F. and T. Hopkins. 2001. Salt and heat trends in the shelf waters of the southern Middle-Atlantic Bight. Cont. Shelf Res.

Decembrini, F., T.S. Hopkins, F. Azzaro. 2004. Variability and sustenance of the deep-chlorophyll maximum over a narrow shelf, Augusta Gulf (Sicily). In Special Volume, "Extreme and Transitional Marine Environments', Chemistry & Ecology (London).

Raffa, F. and T.S. Hopkins, 2004. Circulation and water mass structure over a narrow shelf, Augusta Gulf (Sicily), In Special Volume, "Extreme and Transitional Marine Environments', Chemistry & Ecology (London).

OTHER REVIEW ARTICLES:

Hopkins, T.S. 1971. On the barotropic tide over the continental shelf off the Washington-Oregon coast. Seattle, University of Washington, Dept. of Oceanography Special Report 46, 22 pp.

Tasson, S.T. and T.S. Hopkins. 1972. A preliminary study of Kallon Bay. Nuclear Research Center, Athens, Greece, DEMO REP 72/10, 30 pp.

Hopkins, T.S., R.D. Pillsbury, and R.D. Dugdale. 1973. Water movement in the Petalion Gulf, Greece, based on observations taken in late winter 1970, Rapp. Comm int. Mer. Medit. 22(5):19.

Hopkins, T.S and T. Bezacos-Kontos. 1973. Some parameters influencing the distribution of pollutants in the Saronikos Gulf: In: Report of the Working Conference on a Systems Approach to Eutrophication Problems in the Eastern Mediterranean. University of Washington, Dept. of Oceanography Special Report 53, pp. 135-153.

Hopkins, T.S., A. Grimanis, G. Papacostides, and T. Papadopoulos. 1973. Neutron activation techniques in the determination of pollutants in the bottom sediments of Saronikos. In: Report of the Working Conference on a Systems Approach to Eutrophication Problems in the Eastern Mediterranean, University of Washington, Dept. of Oceanography Special Report 53, pp. 115-133.

Couchman, L.K. and T.S. Hopkins. 1975. Description, analysis and conclusions on water masses of the Saronikos Gulf. University of Washington Project Report to the Greater Athens Environmental Pollution Control Project. Item 5. 84 pp.

Hopkins, T.S. and L.K. Couchman. 1975. Circulation patterns in the Saronikos Gulf in relation to the winds. University of Washington Project Report to the Greater Athens Environmental Pollution Control Project. Item 6. 52 pp.

Hopkins, T.S. and N. Garfield. 1977. Review of the physical oceanography of the northeastern United States, 1973 to present. In: A summary of environmental information on the continental shelf from the Bay of Fundy to Cape Hatteras, Bureau of Land Management, Vol. I, Book 2, Chapter 4, 170 pp.

Hopkins, T.S. 1980. Remarks on the dispersive capacity of the Saronikos Gulf in the context of the Mediterranean basin system. In: Proceedings of the First Greek/US Working Conference on Oceanography Related to Environmental Problems, Aegina, Greece, 7-11 July 1980, A.P. Grimanis and R.C. Dugdale, Eds., Nuclear Research Center, Athens.

Hopkins, T.S. 1983. Remarks on the physical characteristics of the Ionian and Levantine Seas. In: Atmospheric and oceanic circulation in the Mediterranean Basin. Proceedings NATO ASI Santa Teresa, Italy. Editors, H. Charnock, H. Lacombe and R. Molcard.

Hopkins, T.S. 1990. The effect of thermohaline variability on the exchange through Mediterranean Straits. In: Atti dell' 8° Congresso della Associazione Italiana di Oceanologia e Limnologia, Eds. D. Bregant and G.P. Fanzutti. Trieste: 3-24.

Hopkins, T.S. 1990. An overview of the Greenland-Iceland-Norwegian Sea Circulation. Proceedings Undersea Defense Technology 90, London.

Hopkins, T.S. 1993. The subarctic ocean as a buffer for Northern Hemisphere Climate Change. Proceedings of the International Conference, "Oceanus, Climate and Man", Torino, IT, 15-17 April 1991 (avail from author).

Hopkins, T.S and C.A. Kinder. 1993. Land-Ocean Interactions in the Coastal Zone, First IGBP/LOICZ Core Project Meeting Proceedings (Editors), MEAS/NCSU, Raleigh, pp 435.

Hopkins, T.S. and L. Xue. 1994. NWAG Currents Overview Phase III. Northwest Approaches Group, London.

Hopkins, T.S., M. Battilotti, M. De Lauro, M. Monassi, M. Ribera d'Alcala, V. Saggiomo, M.A. Tranmontano, and A. Zangaglia. 1994. The Lazio shelf experiment, Crociera HOPO1 dell'agosto 1991: Aspetti della circolazione delle acque d'acqua. In: Atti dell' 9° Congresso della Associazion & Italiana di Oceanologia & Limnologia. Eds: D. Bregant and G.P. Fanzutti Trieste.

Hopkins, T.S., P. Povero, P. Piatek and A. Warn-Varnas. 1992. Upper layer environmental parameters from CTD data GIN '87 cruises. SACLANTCEN SM-252. La Spezia Italy, SACLANT Undersea Research Centre.

Hopkins, T.S. 1996. Scientific Results of the ELNA Project. SoPoMar, Fiumicino Rome.

Hopkins, T.S. 1996. Consequences and validation of global climate change to the Mediterranean circulation. In: International Congress on Environment/Climate, Book of Abstracts, ICEC-96, March 4-8 1996, Rome, 118 pp.

Hopkins, T.S. and R. Lanfotti. 1997. Rivoluzione Ambientale e Amministrazione Pubblica, Comuni d'Europa, Anno XLV - N. 9, Settembre 1997.

Hopkins, T.S. 1997. Scientific Concepts and Global Problems, Copyiron Course Pak. 270 pp.

Hopkins, T.S., A. Artegiani, F. Bignami and A. Russo. 1998. Water-mass characterization of the the Northern Adriatic from the ELNA data set. In: Hopkins, T.S., A. Artegiani, G. Cauwet, D. Degobbis., A. Malij (Eds.) The Adriatic Sea, Ecosystem Research Report No. 32, 1999, EUR 18834, European Commission, Brussels.

Hopkins, T., A. Artegiani, F. Bignami and A. Russo. 1998. Bentthic oxygen consumption and nutrient regeneration rates in the Northern Adriatic Sea: a comparison with pelagic rates in the lower layer. In: Hopkins, T.S., A. Artegiani, G. Cauwet, D. Degobbis., A. Malij (Eds.) The Adriatic Sea, Ecosystem Research Report No. 32, 1999, EUR 18834, European Commission, Brussels.

Banzon, P., T. Hopkins, D. DeMaster. 1998. An Evaluation of sedimentary organic matter sources, accumulation, and burial patterns in the Northern Adriatic: Can particle mixing be ignored? In: Hopkins, T.S., A. Artegiani, G. Cauwet, D. Degobbis, A. Malij (Eds.) The Adriatic Sea, Ecosystem Research Report No. 32, 1999, EUR 18834, European Commission, Brussels

Totti, C., A. Ghetti, R. Pariante, and T. Hopkins. 1998. Biological coherence in the Italian Coastal Current. In: Hopkins, T.S., A. Artegiani, G. Cauwet, D. Degobbis, A. Malij (Eds.) The Adriatic Sea, Ecosystem Research Report No. 32, 1999, EUR 18834, European Commission, Brussels.

Hopkins, T.S., S. Faci and R. Pugnetta. 1999. The Adriatic Sea Monitoring Plan, Programma di Ricerca e Sperimentazione per la Salvaguardia del Mare Adriatico, PRISMA, Istituto Ricerca sulle Acque, CNR, Rome, 127 pp.

Lemeshko, E.M., T.S. Hopkins. 2000. The steric height method application for the Black Sea: advantages in comparison with dynamics method and fitness for altimetry data validation". In: Oceanography of the Eastern Mediterranean and Black Sea Similarities and differences of two interconnected basins. 23-26 February 1999, Zappeion International Conf. Centre Athens, Greece, 188-189.

Lemeshko E.M., Hopkins T.S., 2002. The steric height method applied to the Black Sea and compared with altimeter and ADCP data. In: Proceedings of Seventh International Conference on Remote Sensing for Marine and Coastal Environments, Miami, 2002, 11pp.

Hopkins, T.S., E. Lemeshko, Z. Vassilios. 2002. A method for simulating the thermohaline exchange through the Bosphorus Strait. In: Proceedings of the "Second International Conference on

Oceanography of the Eastern Mediterranean and Black Sea, Similarities and Differences of Two Interconnected Basins", 14-18 October 2002,METU, Ankara.

TECHNICAL REPORTS:

Lofstrand, J.G., T.S. Hopkins, and H.S. Kritikos. 1974. An analytical description of the bottom topography in the Saronikos Gulf. Inst. Oceanogr. Fish. Res. Saronikos System Project Tech. Rept. 1, 11 pp.

Hopkins, T.S. 1974. Saronikos Systems Project Cruises 1-9. Inst. Oceanogr. Fish. Res. SSP Data Reports, 1,2,3,4,5,6,7,8,9.

Hopkins, T.S. 1974. A discussion of the marine pollution problems in the Saronikos Gulf as disclosed by current research. Inst. Oceanogr. and Fish. Res. Saronikos System Project Tech. Rept. 3, 17 pp.

Hopkins, T.S. 1974. Saronikos Systems Project Drogue Cruises. Inst. Oceanogr. Fish. Res. Data Reports 13, 13A.

Hopkins, T.S. 1975. Saronikos Systems Project Cruises 10-11. Inst. Oceanogr. Fish. Res. SSP Data Reports 10,11.

Hopkins, T.S. 1975. Saronikos Systems Project Current Meter Observations. Inst. Oceanogr. Fish. Res. SSP Data Rept. 15.

Scott, J.T., T.S. Hopkins, R.D. Pillsbury, and E.G. Divis. 1978. Oceanographic data from moored instrumentation. Volume I: velocity and temperature off Shinnecock, Long Island, in October-November 1976. BNL 50895.

Hopkins, T.S., J.T. Scott, R.D. Pillsbury, E.G. Divis, and J. Lofstrand. 1979. Oceanographic data from moored instrumentation, Volume II: velocity, temperature, and salinity off Shinnecock, Long Island, in May 1977. BNL Report 51057.

Divis, E., T.S. Hopkins, V. Pfeiffer, and D. Carlson. 1979. Spar buoy oceanographic telemetry system operational modifications. BNL 51139.

Hopkins, T.S., J.G. Lofstrand, and E.G. Divis. 1979. Oceanographic data from moored instrumentation, August 1978. BNL 27582.

Hopkins, T.S., A.L. Stuebenda, and E.G. Divis. 1982. Oceanographic data from moored instrumentation, March 1978. BNL Report. 28325.

Hopkins, T.S. and P. Zarauza. 1988. Oceanographic data from the Southern Tyrrhenian Sea: August to October 1984. SACLANTCEN, SM-198, 161 pp. La Spezia Italy, SACLANT Undersea Research Centre

Hopkins, T.S. 1989. Atlantic Inflow Experiment: GIN Sea Cruise 86: Part I:Hydrography. SACLANTCEN, SM-209. La Spezia Italy, SACLANT Undersea Research Centre.

Hopkins, T.S., S.A. Piacsek, P. Povero. 1989. Upper layer environmental parameters from the CTD data of the GIN 86 cruise. SACLANTCEN, SM-225, 22 pp. La Spezia Italy, SACLANT Undersea Research Centre.

Hopkins, T.S., P. Giannecchini, L. Gualdesi, and P. Zarauza. 1990. Atlantic Inflow Experiment: GIN Sea Cruise 86: Part II Circulation. SACLANTCEN, SM-231. La Spezia Italy, SACLANT Undersea Research Centre.

Hopkins, T.S., P. Giannecchini, L. Gualdesi, A.M. Moschet, P. Zarauza. 1990 Atlantic Inflow Experiment GIN Sea Cruise 87: Part II Circulation. SACLANTCEN, SM-250. La Spezia Italy, SACLANT Undersea Research Centre.

Hopkins, T.S., G. Baldassarre, A. Goffart, P. Povero and P. Zanasca. 1991. Atlantic Inflow Experiment: GIN Sea Cruise 87-B: Part III Hydrography. SACLANTCEN SM-249. La Spezia Italy, SACLANT Undersea Research Centre.

De Strobel, F., T.S. Hopkins, L. Gualdesi. 1991. Deployment of an acoustic doppler current profiler using a low-drag subsurface multisensor floatation package: design criteria and results. Proceedings of The Fourth IEEE Working Conference on Current Measurement, 3-5 April, 1990.

Hopkins, T.S., G. Baldassarini, P. Minnett, P. Povero, and P. Zanasca. 1992. The Icelandic Current Experiment: GIN Sea Cruise 90: Data Report, Hydrography and Current Meters. SACLANTCEN SM-260. La Spezia Italy, SACLANT Undersea Research Centre.

Hopkins, T.S., M. Battilotti, M. De Lauro, M. Ribera, A. Zangaglia. 1994. Lazio Shelf Experiment: Data Report for HOP01 Cruise 4-11 August 1992. SoPoMar, Rome

Hopkins, T.S., M. Battilotti, F. Bignami, M. De Lauro, J. Heilman, A. Tromontano and A. Zangaglia, 1995. Eutrophic Limits of the Northern Adriatic: Hydrographic Data Report for ELNA Cruises 1-4. SoPoMar, Rome.

Hopkins, T.S., K. Lavender, M. Battilotti, M. Amici, C. Totti, A.M. Tranmontana, A. Zangaglia, J. Heilman, E. Souvermezoglou and E. Krasakopoulou, 1995. Eutrophic Limits of the Northern Adriatic: Hydrographic Data Report for ELNA Cruises 5-7. SoPoMar, Rome.

Wallace, D.W.R., T.S. Hopkins, W.J. Behrens, J. Deming, C. Kinder, W.O. Smith, Z. Top, and I.D. Walsh. 1995. Collaborative Research on the Northeast Water Polynya: NEWP92 Hydrographic Data Report, USDGC *Polar Sea* Cruise, July 15 - August 15, 1992. BNL Report. No. 61923.

Wallace, D.W.R., T.S. Hopkins, W.J. Behrens, F. Bignami, J. Deming, C. Kinder, Y. Shi, W.O. Smith, Z. Top, and I.D. Walsh. 1995. Collaborative Research on the Northeast Water Polynya: NEWP92 Hydrographic Data Report, USDGC *Polar Sea* Cruise, July 15 - August 15, 1992. BNL Report. No. 61922.

Hopkins, T.S. M.S. Mustafa, C. Kinder, M.O. Cook. 1998 SCICEX - 96 Hydrographic Data Report, USS POGY Cruise, Sep - Nov 1996, MEAS/NCSU, Raleigh, NC.

Vertano, A. and T. S. Hopkins. 1998. Methodology for determination of transports and adjusted sea-level in Mid-Atlantic Bight using the steric height method: 1994 and 1996 GMP data. MEAS/NCSU, Raleigh, NC

Bignami, F. and T. S. Hopkins. 1998. The hydrography during the GMP –96 Mooring cruises. MEAS/NCSU, Raleigh, NC

IN PRESS:
Swan, W. and T. Hopkins, T. Dynamical sequence leading to the 1998 fish kill in the Neuse River Estuary. In review, Estuarine, Coastal and Shelf Science.
Hopkins, T.S., F. Bignami, Geostrophic circulation of the Northeast Water Polynya from the hydrography data of the summers, 1992 and 1993. Submitted to J. Mar. Systems.
Budillon, F., L. Ferrara, M. Iorio, M. De Lauro, T. S. Hopkins, R. Tonielli. Morphology and geology of the Gulf of Augusta, Sicily.

PREPARING FOR SUBMISSION:
Hopkins, T.S. and J. Molina. The application of the Gibraltar Exchange Method to a vertically-mixed coastal lagoon, the Pamlico Sound. Submitted to Estuarine Coastal and Shelf Science.
Vertano, A. and T.S. Hopkins, Circulation, water-property transports and adjusted sea levels in the Mid Atlantic Bight. To be submitted to Cont. Shelf Res.
Hopkins, T.S., W. Smethie and C.A. Kinder, 1998. Circulation, sea-level and transports in The Canadian Basin from the SCICEX-96 data.. To be submitted to JGR.
Hopkins, T.S., W. Smethie and R. Sambrotto, Water-mass trajectories and structure over the Chukchi Borderland portion of the Canadian Basin.
Lemeshko E.M. and T.S. Hopkins. Isostatically adjusted sea levels from hydrographic data compared with satellite altimetry data and coastal sea level observations in the Black Sea. To be submitted to CSR.