VITA



**Emin Özsoy**

**Professor and head, Physical Oceanography**

[INSTITUTE OF MARINE SCIENCES,](http://www.ims.metu.edu.tr/)

[MIDDLE EAST TECHNICAL UNIVERSITY](http://www.ims.metu.edu.tr/)

P.K. 28, ERDEMLİ, MERSİN 33730 TURKEY

*Tel: +90-324-521-2406 Fax: +90-324-521-2327*

*e-mail:* ozsoy@ims.metu.edu.tr

*ftp:* ftp://ftpoz:ftp2010@144.122.146.239/cv/oz\_cv\_en\_long.pdf

and

EURASIA INSTITUTE OF EARTH SCIENCES

İSTANBUL TECHNICAL UNIVERSITY

Maslak 34469 İstanbul

*Tel:* +90-212-285-6207 *Fax:* +90-212-285-6210

*e-mail:* ozsoyem@itu.edu.tr

*web:* <http://www.eies.itu.edu.tr/personel/akademisyenler/prof-dr-emin-%C3%B6zsoy>

***Professional:***

1977-1978: Staff Engineer, Tetra Tech Inc., Jacksonville, FL, USA

1978-1983: Assistant Professor, IMS-METU

1983-1989: Associate Professor, IMS-METU

1989-present: Professor, Physical Oceanography Section, Institute of Marine Sciences, METU, Erdemli, Mersin, Turkey

1989: Visiting scientist, IMGA-CNR, Modena, Italy

1989-1990: Visiting Professor, UNESCO and Fulbright Fellow, Harvard University, Cambridge, MA, USA

2014-2015: Visiting Scientist, University of Bologna, Bologna, Italy

2015-2016: Visiting Scientist, EIES-ITU

***Listed in Marquis Who’s Who:***

<https://cgi.marquiswhoswho.com/OnDemand/Default.aspx?last_name=Ozsoy&first_name=Emin>

***Education:***

**B.S.**, Middle East Technical University, Civil Engineering Department, Ankara, 1972.

**M.S.**, University of Miami, Rosenstiel School of Marine and Atmospheric Science, Ocean Engineering Department, Coral Gables, Florida, 1974.

**Ph.D.**, University of Florida, Coastal and Oceanographic Engineering Laboratory, Engineering Sciences Department, Gainesville, Florida, 1977.

***Research Interests and Contributions:***

* ocean modeling /Levantine Basin of the Eastern Mediterranean, Black Sea, Caspian Sea, Turkish Straits System/
* shelf seas – circulation, cascading flows /Cilician Basin, Black Sea shelf/
* sea straits – dynamics, transport, modeling /Turkish Straits System/
* seas with islands /quasi-geostrophic dynamics/
* ecosystems /coupled hydrodynamics-ecosystem modeling/
* double diffusive convection /Black Sea boundary and interior mixing/
* operational oceanography /observing systems, forecasting/
* atmospheric science /air-sea fluxes, dust transport, meteorological forecasting/
* oceanographic use of tracers /deep water renewal, transport/
* tidal inlets /tidal jet flows, sediment transport, morphology/
* tsunamis /modeling Eastern Mediterranean tsunamis/
* climate variability and climate change /in the Seas of the Old World (e.g. Black Sea, Mediterranean and Caspian Seas)/
* history of oceanography /17th century work of Marsili in the Bosphorus/

***Sea Time:***

R/V CALANUS and R/V COLUMBUS ISELIN of the University of Miami

R/V KNORR of the Woods Hole Oceanographic Institution

R/V ALLIANCE of NATO Undersea Research Center

R/V KUĞU and R/V ERDEMLİ of the Institute of Marine Sciences, METU

R/V BİLİM of the Institute of Marine Sciences, METU

***Memberships and Committees:***

AGU (American Geophysical Union)

IGBP/START (International Geosphere-Biosphere Program /SysTem for Analysis, Research and Training) Planning Committee for the Mediterranean (MEDCOM)  (1994-1998)

SCOR (Scientific Committee on Oceanic Research) Working Group on Double Diffusion (WG108)

TÜBİTAK (Turkish Scientific and Technological Research Council) / ÇAYDAG (Research Group on Environment, Atmosphere, Earth and Ocean Sciences) - (2004-2009)

CIESM (the Mediterranean Science Commission) Physical Oceanography and Physics and Climate of the Ocean Committees

MOON (Mediterranean Operational Oceanography Network) Scientific Steering Committee, Operational Advisory Group and Management Group (2004-2012)

MedGOOS (Mediterranean Global Ocean Observing System) (2004-2012)

MONGOOS (Mediterranean Operational Network for the Global Ocean Observing System) (2013-)

HyMeX (HYdrological cycle in the Mediterranean Experiment) International Scientific Steering Committee (2011-2014)

UNESCO-TMK (UNESCO Turkish National Commission) Basic Sciences Committee (2013-2014)

İKSV - İstanbul Kültür Sanat Vakfı / İstanbul Foundation for Culture and Arts – alliance for the 14th İstanbul Biennial 2015 “Saltwater: a Theory of Thought Forms” (2014-2015)

Scientific Committee and Foundation member of the Bosphorus Museum, Sarıyer, İstanbul, (2015- )

Koç Üniversitesi Denizcilik Forumu / Koç University Marine Forum – Advisory Board (2016-2017)

***Scholarships:***

NATO Graduate Scholarship (1973-1977)

NATO Research Fellowship (1989)

UNESCO Research Fellowship (1989)

Fulbright Scholarship (1989-1990)

***Projects:***

POEM Consortium - Physical Oceanography of the Eastern Mediterranean

CoMSBlack Consortium – Black Sea

Ventilation of the Black Sea - EU Copernicus Project

ARAL-KUM – EU Copernicus Project

MFSTEP, MERSEA, ECOOP, IASON, SESAME, MyOcean, PERSEUS, MyOcean2, MyOcean FO - European Integrated Projects (Mediterranean and Black Seas, Turkish Straits System)

TU-Fisheries, TU-Black Sea, TU-Black Sea ODBMS - NATO Projects (Black Sea)

MACE - NATO SfP Project (Caspian Sea)

IAEA - Environmental Pollution of the Black Sea Coordinated Research Project (Black Sea)

MOMA - TÜBİTAK Public Research Group Project (observing and forecasting systems)

TÜBİTAK research projects (Mediterranean and Black Seas, Turkish Straits System)

Other local research projects (Akkuyu NPP Tsunami, Shelf projects, SEKA, İskenderun, İSKİ - Turkish Straits System, İTÜVSAM / TURBO)

***Operational Forecasting Systems:***

http://ocean.ims.metu.edu.tr

http://moma.ims.metu.edu.tr

***Atmosphere:***

WRF meteorological forecasts (+3 days)

DREAM atmospheric aerosols (dust) forecast (+3 days)

***Ocean:***

North Levantine Sea Forecasts (+5 days)

Black Sea Forecasts (+5 days)

***Publications:***

***Standing:***

(as of July 2016)

i10-index: 65 (google scholar)

h-index: 31 (google scholar) 24 (web of science)

citations: 4294 (google scholar) 2474 (web of science)

- 59 scientific research and review papers in SCI referenced journals

- 67 contributions in books and published proceedings

- various project and technical reports

- contributions at scientific conferences

- paper reviewing experience for prominent journals

***Journal Articles (SCI):***

Taylor, R. B., Özsoy E. and T.J. Turco (1980). Wave Runup on Variable Beach Profiles, Journal of the Waterway, Port, Coastal and Ocean Division, Proc. ASCE, 106, 169-181.

Özsoy, E. and Ü. Ünlüata (1982). Ebb-Tidal Flow Characteristics Near Inlets, Estuarine, Coastal and Shelf Science, 14, 251- 263.

Özsoy, E., Ünlüata, Ü. and M. Aral (1982). Coastal Amplification of Tsunami Waves in the Eastern Mediterranean, J. Phys. Oceanogr., 12, 117-126.

Ünlüata, Ü., Oğuz, T., and E. Özsoy (1983). Blocking of Steady Circulation by Coastal Geometry, J. Phys. Oceanogr., 13, 1055-1062.

Özsoy, E. (1986). Ebb-Tidal Jets: A Model of Suspended Sediment and Mass Transport at Tidal Inlets, Est., Coastal and Shelf Sci., 22, 45-62.

Özsoy, E., Hecht, A. and Ü. Ünlüata, (1989). Circulation and Hydrography of the Levantine Basin, Results of POEM Coordinated Experiments 1985/1986, Prog. Oceanogr., 22 125-170.

Oğuz, T., Özsoy, E., Latif, M. A., and Ü. Ünlüata (1990). Modelling of Hydraulically Controlled Exchange Flow in the Bosphorus Strait, J. Phys. Oceanogr., 20, 945-965.

Murray, J. W., Top, Z. and E. Özsoy, (1991). Hydrographic Properties and Ventilation of the Black Sea, Deep-Sea Res., 38, Suppl. 2, S663-S689.

Latif, M. A., Özsoy, E., Oğuz, T. and Ü. Ünlüata (1991). Observations of the Mediterranean inflow into the Black Sea, Deep-Sea Res., 38, Suppl. 2, S711-S723.

Özsoy, E., Hecht, A., Ünlüata, Ü., Brenner, S., Oğuz, T., Bishop, J., Latif, M. A., and Z. Rosentroub (1991). A Review of the Levantine Basin Circulation and Its Variability During 1985-88, Dyn. Atmos. Oceans, 15, 421-456.

The POEM Group (Robinson, A., R., Malanotte-Rizzoli, P., Hecht, A., Michelato, A., Roether, W., Theocharis, A., Ünlüata, Ü., Pinardi, N., Artegiani, A., Bishop, J., Brenner, S., Christianidis, S., Gacic, M., Georgopoulos, D., Golnaraghi, M., Hausmann, M., Junghaus, H.-G., Lascaratos, A., Latif, M. A., Leslie, W. G., Oğuz, T., Özsoy, E., Papageorgiou, E., Paschini, E., Rosentroub, Z., Sansone, E., Scarazzato, P., Schlitzer, R., Spezie, G.-C., Zodiatis, G., Athanassiadou, L., Gerges, M., Osman, M.) (1992). General Circulation of the Eastern Mediterranean, Earth Sci. Rev., 32, 285-309.

Özsoy, E., Lozano, C. and A. R. Robinson, (1992). A Baroclinic Quasigeostrophic Model for Closed Basins or Semi-Enclosed Seas with Islands, Math. Comp. Simul., 34, 51-79.

Sur, H. İ., Özsoy, E., and Ü. Ünlüata, (1992). Simultaneous Deep and Intermediate Depth Convection in the Northern Levantine Sea, Winter 1992, Ocean. Acta, 16, 33-43.

Özsoy, E., Ünlüata, Ü. and Z. Top, (1993). The Mediterranean Water Evolution, Material Transport by Double Diffusive Intrusions, and Interior Mixing in the Black Sea, Prog. Oceanogr., 31, 275-320.

Özsoy, E., Hecht, A., Ünlüata, Ü., Brenner, S., Sur, H. İ., Bishop, J., Latif M. A., Rozentraub, Z. and, T. Oğuz, (1993). A Synthesis of the Levantine Basin Circulation and Hydrography, 1985-1990, Deep-Sea Res., 40 1075-1119.

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Beşiktepe, Ş., Özsoy, E. and Ü. Ünlüata (1993). Filling of the Sea of Marmara by the Dardanelles Lower Layer Inflow, Deep-Sea Res., 40, 1815-1838.

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Sur, H. İ., Özsoy, E. and Ü. Ünlüata, (1994). Boundary Current Instabilities, Upwelling, Shelf Mixing and Eutrophication Processes In The Black Sea, Prog. Oceanogr., 33, 249-302.

Özsoy, E., Latif, M. A., Beşiktepe, Ş. and A. F. Gaines (1995). Fluorescent Dye Measurements of the Mixing and Transport of Wastewater Discharge in the Bosphorus, Wat. Sci. Tech., 32(2), 61-68.

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Sur, H. İ., Ilyin, Y. P., Özsoy, E. and Ü. Ünlüata (1996). Coastal / Deep Water Interactions in the Black Sea and their Ecological / Environmental Impacts, J. Mar. Sys., 7, 293-320.

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Gregg, M. C. and E. Özsoy (1999). Mixing on the Black Sea Shelf North of the Bosphorus, Geophysical Research Letters 26, 1869-1872.

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Özsoy, E., Kubilay, N., Nickovic, S. and C. Moulin (2001). A Hemispheric Dust Storm Affecting the Atlantic and Mediterranean (April 1994): Analyses, Modelling, Ground-Based Measurements and Satellite Observations, J. Geophys. Res., 106, 18,439 - 18,460.

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**Kurdyumov, D. G. and E. Özsoy (2004). Monthly mean characteristics of the intra-annual variability of the Caspian Sea water circulation from an eddy-resolving thermohydrodynamical model, Oceanology, 44(6), 789-798.**

**Gündüz M.** and E. Özsoy (2005). Effects of the North Sea Caspian Pattern on Surface Fluxes of Euro-Asian-Mediterranean Seas, Geophys. Res. Letters, 32, L21701, http://dx.doi.org/10.1029/2005GL024315

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Ibrayev, R. A., Özsoy, E., Schrum, C., and Sur, H. İ. (2009). Seasonal variability of the Caspian Sea three-dimensional circulation, sea level and air-sea interaction, Ocean Sci. Discuss., 6, 1913-1970.

Ibrayev, R. A., Özsoy, E., Schrum, C., and Sur, H. İ. (2010). Seasonal variability of the Caspian Sea three-dimensional circulation, sea level and air-sea interaction, Ocean Sci., 6, 311-329, doi:10.5194/os-6-311-2010.

Zervoudaki, S., Christou, E. D., Assimakopoulou, G., Örek, H., Gücü, A. C., Giannakourou, A., Pitta, P., Terbıyık, T., Yϋcel, N., Moutsopoulos, T., Pagou, K., Psarra, S., Özsoy, E. and E. Papathanassiou (2011). Copepod communities, production and grazing in the Turkish Straits System and the adjacent northern Aegean Sea during spring, J. Mar. Sys., 86 (3–4), 45-56, ISSN 0924-7963, doi: 10.1016/j.jmarsys.2011.02.002.

Simav, M., Yıldız, H., Türkezer, A., Lenk, O. and E. Özsoy (2012). Sea level variability at Antalya and Menteş tide gauges in Turkey: atmospheric, steric and land motion contributions. Studia Geophysica et Geodaetica, 56, 215-230.

Tonani, M., Nilsson, J. A. U., Lyubartsev, V., Grandi, A., Aydoğdu, A., Azzopardi, J., Bolzon, G., Bruschi, A., Drago, A., Garau, T., Gatti, J., Gertman, I., Goldman, R., Hayes, D., Korres, G., Lorente, P., Malacic, V., Mantziafou, A., Nardone, G., Olita, A., Özsoy, E., Pairaud, I., Pensieri, S., Perivoliotis, L., Petelin1, B., Ravaioli1, M., Renault, L., Sofianos, S., Sotillo, M. G. Teruzzi, A. and G. Zodiatis (2012). Operational evaluation of the Mediterranean Monitoring and Forecasting Centre products: implementation and results, Ocean Sci. Discuss., 9, 1813–1851.

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Malanotte-Rizzoli, P., V. Artale, G. L. Borzelli-Eusebi, S. Brenner, G. Civitarese, A. Crise, J. Font, M. Gacic, N. Kress, S. Marullo, E. Özsoy, M. Ribera d’Alcalà, W. Roether, K. Schroeder, S. Sofianos, T. Tanhua, A. Theocharis, M. Alvarez, Y. Ashkenazy, A. Bergamasco, V. Cardin, S. Carniel, F. D’Ortenzio, E. Garcia-Ladona, J. M. Garcia-Lafuente, A. Gogou, M. Gregoire, D. Hainbucher, H. Kontoyannis, V. Kovacevic, E. Krasakapoulou, G. Krokos, A. Incarbona, M. G. Mazzocchi, M. Orlic, A. Pascual, P.-M. Poulain, A. Rubino, J. Siokou-Frangou, E. Souvermezoglou, M. Sprovieri, I. Taupier-Letage, J. Tintoré, and G. Triantafyllou (2013). Physical forcing and physical/biochemical variability of the Mediterranean Sea: Discussions, a review of unresolved issues and directions for future research, Ocean Sci. Discuss., 10, 1205–1280, doi:10.5194/osd-10-1205.

Malanotte-Rizzoli, P., Artale, V., Borzelli-Eusebi, G. L., Brenner, S., Crise, A., Gacic, M., Kress, N., Marullo, S., Ribera d'Alcalà, M., Sofianos, S., Tanhua, T., Theocharis, A., Alvarez, M., Ashkenazy, Y., Bergamasco, A., Cardin, V., Carniel, S., Civitarese, G., D'Ortenzio, F., Font, J., Garcia-Ladona, E., Garcia-Lafuente, J. M., Gogou, A., Gregoire, M., Hainbucher, D., Kontoyannis, H., Kovacevic, V., Kraskapoulou, E., Kroskos, G., Incarbona, A., Mazzocchi, M. G., Orlic, M., Özsoy, E., Pascual, A., Poulain, P.-M., Roether, W., Rubino, A., Schroeder, K., Siokou-Frangou, J., Souvermezoglou, E., Sprovieri, M., Tintoré, J., and Triantafyllou, G. (2014). Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research, Ocean Sci., 10, 281-322, doi:10.5194/os-10-281-2014.

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