



# MURAT ERBAY, Ph.D

## Fisheries Technology Engineer



### ■ **PROJECTS**

#### ■ **Projects Conducted**

1. TUBITAK - Acoustic Method for Determination of Black Sea Anchovy Stocks and Continuous Monitoring Model Generation – Researcher (2011-2015)
2. TUBITAK – Determination of Cryptobenthic and Epibenthic Ichthyo-fauna in Southern Black Sea Coastal Ecosystem - Researcher (2013-)
3. TUBITAK- Seasonal Variation of Macro-Benthic Invertebrate Diversity and the Ecological Quality Values of the Western Black Sea Coasts of Turkey No: 116Y150 - Researcher (2017- ).
4. EU- Strengthen of Regional Capacity Supporting Sustainable Management of Black Sea Fisheries - Researcher (2007-2013)
5. EU- Implementation of Stock Assessment in Fisheries Activities (IFISH)- Researcher (2019-)
6. TAGEM- Atlas of Fish and Otoliths in Turkey: Marmara and Black Sea - Project Leader (2013-2015)
7. TAGEM – Monitoring of Seine Fishing in Eastern Black Sea – Researcher (2006-2016)
8. TAGEM - From egg to adult in the coastal of Trabzon, horse mackerel (*Trachurus mediterraneus*, Steindachner, 1868): Age, Growth, Reproduction and Mortality - Researcher (2010- 2013)
9. TAGEM - Determination of Ecological Quality in the Eastern Black Sea Coast and Species Diversity of Benthic Invertebrate Organisms - Researcher (2013- 2015)
10. TAGEM- A Preliminary Study on the Estimation of striped venus (*Chamelea gallina* (L., 1758)) Stocks Distributed in the Western Black Sea (Sinop-Cide)- Researcher (2011-2014)
11. TAGEM - From Canakkale Strait To Hopa: Bluefish (*Pomatomus saltatrix*) Population Monitoring Project (2013-2015)
12. TAGEM- Effects of Light Fishery to the Sustainable Fisheries - Researcher (2015-)
13. TAGEM- Effects of Fishing Nets in Black Sea Fisheries – Researcher (2015-)
14. MINISTRY of DEVELOPMENT- Monitoring of Economic Pelagic Stocks (2017- )



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### ▪ Ongoing Projects

1. TAGEM- Monitoring of Economic Pelagic Stocks in Black Sea – Researcher (2015-)
2. TAGEM- Monitoring to Ecological Quality Values in The Infralittoral Zone From Samsun to Hopa Region – Researcher (2018-)
3. EU (FAO-GFCM)- Recreational Fishing pilot study Turkey (2021- )- Project Leader
4. Rapa Whelk Research Surveys in the Eastern coastal waters of Turkey (BlackSea4Fish) (2021-)

### ▪ PUBLICATIONS

#### ▪ INTERNATIONAL ARTICLES AND PAPERS

#### ▪ Articles Published in International Indexed Journals (SCI, SCI-Expanded )

- Dağtekin, M., Dalgiç, G., **Erbay, M.**, Akpınar, İ. Ö., Aydın, M., Özdemir, S., ... & Özyurt, C. E. (2023). Effect of a fishing closure on *Chamelea gallina* stocks along the Turkish coast. *Journal of the Marine Biological Association of the United Kingdom*, 103, e11.
- Başçınar, N. S., Misir, D. S., Altuntaş, C., Genç, Y., Dağtekin, M., **Erbay, M.**, ... & Aydın, E. (2023). Length–weight relationship and seasonal variations in diet composition of whiting (*Merlangius merlangus*) in the South-eastern Black Sea. *Marine Biology Research*, 1-12.
- Dağtekin, M., Dalgiç, G., **Erbay, M.**, Akpınar, İ. Ö., Aydın, M., Özdemir, S., ... & Karayücel, S. (2023). Population abundance and growth parameters of an exotic bivalve species, *Anadara kagoshimensis*, in the Southwestern Black Sea. *Turkish Journal of Zoology*, 47(1), 20-32.
- Erbay, M.**, Şahin, C. (2022). An Acoustic Survey in the Southeastern Black Sea in the Assessment of *Trachurus mediterraneus* (Steindachner, 1868) Distribution, *Thalassas: An International Journal of Marine Sciences*. (in press)
- Gücü, A.C., Bilir, B., Aydın, C.M., **Erbay, M.**, & Kılıç, S. (2022). An Acoustic Study on the Overwintering Black Sea Anchovy in 2020. *Turkish Journal of Fisheries and Aquatic Sciences*, 22, TRJFAS19187. <http://doi.org/10.4194/TRJFAS19187>
- Başçınar, N. S., Gözler, A. M., Jafarova, E. E., **Erbay, M.**, Akpınar, İ. Ö., Atılğan, E., ... & Zengin, B. (2020). Spatial and temporal variations in the species composition and abundance of benthic macroinvertebrates along the coast of the Eastern Black Sea. *Marine Biology Research*, 1-14.
- Şahin, C., **Erbay, M.**, Kalaycı, F., Ceylan, Y., Yeşilçiçek, T. (2019). Life-History Traits of the Black Scorpionfish (*Scorpaena porcus*) in Southeastern Black Sea. *Turkish Journal of Fisheries and Aquaculture*, 19(7), (accepted) [http://doi.org/10.4194/1303-2712-v19\\_7\\_04](http://doi.org/10.4194/1303-2712-v19_7_04)
- Gücü, A. C., Genç, Y., Başçınar, N. S., Dağtekin, M., Atılğan, E., **Erbay, M.**, ... & Kutlu, S. (2018). Inter and intra annual variation in body condition of the Black Sea anchovy, *Engraulis encrasicolus ponticus*—Potential causes and consequences. *Fisheries Research*, 205, 21-31.



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Gücü A., Genç, Y., Ak, O., Başçınar N.S., Zengin, M., Dağtekin, M., **Erbay, M.**, Atılğan, E., Akpınar, İ.Ö. (2013). Illegal ,unreported, Unregulated Anchovy Fishery in the Black Sea,GFCM-BSC Workshop on IUU anchovy fishery in the Black Sea, FAO Technical Report, 25-27 February, İstanbul, Türkiye.

#### Articles Published in Other International Journals

Türe, M., Alp, H., Altuntaş, C., Kutlu, İ., **Erbay, M.**, Savaş, H. (2017). Occurrence of Vancomycine Resistance Genes in Enterococci Isolated from Cage Areas in Turkey. GENAQUA GENETICS OF AQUATIC ORGANISMS, doi: 10.4194/2459-1831-v1\_1\_02. 1: 9-18.

Atılğan, E., **Erbay, M.**, Aydın, İ., (2010). Otolith Properties of Some Economic Species in Eastern Black Sea, Yunus Research Bulletin, September 2010. (In Turkish).

Atılğan, E., Başçınar, S., **Erbay, M.**, (2011). Otolith Properties and Some Population Parameters of Horse mackerel (*Trachurus mediterraneus* (Steindachner, 1868)) in Eastern Black Sea, Journal of Fisheries Science, 6(2):114-124. (in Turkish)

Atılğan, E., **Erbay, M.**, Başçınar, N.S., (2012). Comparison of Whole Otolith and Broken-Burnt Otolith Ages of Mediterranean Horse mackerel (*Trachurus mediterraneus* Steindachner, 1868) CFRI Yunus Research Bulletin, 12 (4):6-12. (in Turkish)

#### International Symposiums, Seminars, etc.

Mısır, D.S., Altuntaş, C., Özyurt, C.E., Dağtekin, M., Genç, Y., Başçınar, N.S., **Erbay, M.**, Kasapoğlu, N., Balçık Mısır, G., Aydın, İ. (2018) "What should be the Minimum Landing Size and Minimum Mesh Size in the Whiting Fisheries with Gillnets on Black Sea?" poster In the Mediterranean and the Black Sea Fao Headquarters, 10-14 December FishForum. Roma-Italy.

Mısır, D.S., Altuntaş, C., Özyurt, C.E., Dağtekin, M., Başçınar, N.S., Genç, Y., **Erbay, M.**, Kasapoğlu, N., Balçık Mısır, G. (2018). Effect of Fishing Net Material on Size Selectivity" 2nd International Congress on Advances in Bioscience and Biotechnology (ICABB), June 26-30, Podgorica, Montenegro. Poster Presentations.

Gözler, A.M., Baytaşoğlu H., Başçınar, N.S., **Erbay, M.**, (2018). Soft-Bottom Molluscs Diversity of the Southwestern Black Sea (İstanbul-İğneada) in autumn, II. International Eurasian Agriculture and Naturel Sciences Congress Abstract book 91 p, 11-15 September 2018 Azerbaijan –Baku.

Başçınar N.S., Gözler A.,Jafarova, E.E., Aytan Ü., Akpınar- Özcan İ., Atılğan E., **Erbay M.**, Mısır D. S., Zengin B., (2015). Biological Diversity of Marine Macro-zoobenthic Communities and Benthic Ecological Quality at Southeastern Black Sea (Samsun) in Spring Season, Regional Workshop on Black Sea Marine Ecosystems and Fisheries,18-20 November 2015,Trabzon, Turkey.

Başçınar N.S., Gözler A., Akpınar- Özcan İ., Aytan Ü., **Erbay M.**, Atılğan E., Mısır D. S., (2015). Soft-Bottom Macro-zoobenthic Diversity of the South Eastern Black Sea (Samsun) in Spring, Deniz ve Kıyısız Alan Gelişimi Konferansı, MACODESU-2015, 212p,18 -20 Eylül Trabzon, Turkey

Başçınar, N.S, Özcan- Akpınar, İ., **Erbay, M.**, Atılğan, E., Zengin.,B. , Mısır, D.S., Gözler, A., (2014). Seasonal Distribution Of Polychaeta In The Black Sea (Samsun) Coastal Zone. Faba 2014 International Symposium Fisheries and Aquatic Science. Symposium Abstract Book ,383p, 25-27 September. Trabzon.



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Başçınar, N.S, **Erbay, M.**, Atılğan, E., Mısır, D.S., Özcan- Akpınar, İ.,Gözler, A., Zengin.,B. (2014). Dynamics of Mollusca Depends on the Depth And Season in the Black Sea (Samsun). Faba 2014 International Symposium Fisheries and Aquatic Science, Symposium Abstract Book, 459p, 25-27 September, Trabzon.

### ▪ NATIONAL ARTICLES AND PAPERS

#### ▪ Articles Published in National Journals

Zengin, M., Genç Y., Başçınar N.S., Ak O., Dağtekin M., Atılğan E., **Erbay M.**, Akpınar İ.Ö. (2012). TR90 Fisheries Sectoral Report of Eastern Black Sea Region (Fisheries Department), Number: TR90/11/DFD/21, Central Fisheries Research Institute (supported by Ministry of Development/ Eastern Black Sea Development Agency), 105 pp. (in Turkish)

Aydın, M., Karadurmuş, U, **Erbay, M.** (2012). Length-Weight Relationships and Reproduction Characteristics of *Liocarcinus navigator* (Herbst, 1794). Ege Journal of Fish. Aqua. Sci. 29(4): 193-197.

#### ▪ National Symposiums, Seminars, etc.

Ak O., Genç Y., Başçınar N.S., Dağtekin M., **Erbay M.**, Atılğan E., (2012). Bonito and Horse mackerel in Seine-haul Fishing, Sustainable Fisheries in Black Sea Workshop. 6-8 November 2012, Sinop. (in Turkish)

Genç, Y., Ak, O., Başçınar, S., Dağtekin, M., **Erbay, M.**, Atılğan, E., (2010). Population Parameters and Off-target Ratios of Anchovy (*Engraulis encrasicolus* (L., 1758)), in Eastern Black Sea 2009-2010 1. National Anchovy Workshop: Sustainable Fisheries – 17-18 June 2010, 58-64 pp. (in Turkish)

Kasapoğlu, N., Gökçe, G., Dereli, H., Ölçek, Z. S., Erkan, S., Bal, H., **Erbay, M.**, Atılğan, E., Özcan Akpınar, İ., Mısır, D. S., Genç, Y., Kalıpçı, Ö. (2015). Effects of Fishing with Light on the Sustainable Fisheries 18. National Fisheries Symposium 1-4 September 2015 İzmir, Turkey (in Turkish) (Poster Presentation).

Başçınar, N.S., Zengin.,B. , **Erbay, M.**, Özcan- Akpınar, İ., Atılğan, E., Gözler, A., (2015). Karadeniz Kıyılarında Mollusca Grubunun Derinliğe Bağlı Kantitatif Dağılımının Mevsimel Haritalanması, Ekoloji 2015 Sempozyumu Bildiri Özet Kitapçığı, 06-09 Mayıs 2015,490s, Sinop.

Başçınar, N.S., Zengin.,B. Mısır, D.S., Atılğan, E., Özcan- Akpınar, İ., **Erbay, M.**, (2015). Karadeniz Kıyılarında Polychaeta Grubunun Derinliğe Bağlı Kantitatif Dağılımının Mevsimsel Haritalanması, II. Balıklandırma ve Rezervuar Yönetimi Sempozyumu Özet Kitapçığı, 20-22 Mayıs 2015, 295s, Eğirdir/Isparta.

### ▪ OTHER PUBLICATIONS

#### ▪ Ph.D. Thesis, Master Thesis, Reports, Books etc.

Master Thesis : Study on the population structure and reproductive biology of Black scorpionfish (*Scorpaena porcus*, Linnaeus, 1758) in the Eastern Black Sea, Turkey

Ph.D Thesis : Assessment of Horse mackerel (*Trachurus mediterraneus* Steindachner, 1868) Stocks in the Eastern Black Sea by Acoustic Method

Books: : Marine fish and otoliths: Black Sea and Marmara Regions, Turkey



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**TAGEM**  
R&D AND INNOVATION

### **Editorial**

Yunus Research Bulletin - Technical Editor (2011-2017)

### **Social Networks**

Google Scholar : <https://scholar.google.com.tr/citations?hl=tr&user=hGkr1f8AAAAJ>