

CURICULUM VITAE

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Professor

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PERSONAL

Date of Birth : December 16, 1962

Place of Birth : Ankara

Citizenship at birth and present: Turkish

EDUCATION

High School : 1973-1979 Izmir Turk Koleji, Izmir, Turkey

BS: 1979-1983 Ege University, Faculty of Science, Department of
Biological Oceanography, Izmir, Turkey

Master: 1984-1987 METU - Institute of Marine Sciences, Department of
Marine Biology and Fishery, Mersin, Turkey

Ph.D: 1987-1991 METU - Institute of Marine Sciences, Department of
Marine Biology and Fishery, Mersin, Turkey

PostDoc: 2004-Nice Sophia Antipolis University LAB. Environment Marin Littoral

WORK EXPERIENCE

1) Employer: FAO - GFCM

Job Title: BlackSea4Fish Project Coordinator

Start Date: April 2018

Professional Area : Fishery and Aquaculture

End Date: December 2019

Description of the Job: Coordinating the GFCM's Midterm strategy activities in the Black Sea.

2) Employer: Middle East Technical University

Job Title : Professor

Professional Area : Fishery and Aquaculture

Start Date : Apr/2017

End Date : Continue

Description of the Job: Teaching postgraduate courses on;
- Fisheries acoustics,
- Dynamics of Fish Population

- Introduction to Fish Stock Assessment (as Special Topics)

- BioStatistics

Leading a project on Black Sea anchovy, assessing the BS anchovy (GSA 29) and Red Mullet (GSA-24) stocks. Investigating the impacts of Lessepsian species on the native stocks.

Taking part in the international consortium implementing the EuropeAid/135965/IH/SER/TR "Technical assistance for capacity building on Marine Strategy Framework Directive in Turkey" as a national expert on D1 (Fish and Monk Seal), D3 (Fisheries) and D4 (Foodweb). The duties involves preparation and reporting of initial assessment, targets and indicators, program of measures.

Projects coordinated

2016-2019 Diurnal and seasonal variability of the behavior of anchovies in Turkish waters of the Black Sea, BSA-VI, Office of Naval Research, Global (ONR-Global)

2016 – 2018 Technical assistance for capacity building on Marine Strategy Framework Directive in Turkey, EuropeanAid

2019 - : EU-supported Technical Assistance Project on the "Implementation of Stock Assessments in Fisheries Activities

2019 - : Sustainable management of mesopelagic resources. EU - HORIZON 2020 project

3) Employer: Middle East Technical University

Job Title : Associated Professor

Professional Area: Fishery and Aquaculture

Start Date : Jan/1998

End Date : Mar/2017

Description of the Job

Teaching postgraduate courses on;

- Ecosystems of the Mediterranean Sea,

- Marine Ecology

- Fisheries acoustics,

- Dynamics of Fish Population

- Introduction to Fish Stock Assessment

Leading a project on Black Sea anchovy. The project mainly targeted to build up Turkey's fish stock assessment capacity in the Black Sea,

particularly for the pelagic stocks. Within the framework of the project a

total of sixteen pelagic fish surveys were conducted mainly using hydro-

acoustics (ichthyoplankton in summer) and five of these surveys covered

the entire extent of the Turkish EEZ (southern half of the Black Sea).

Leading various other research projects on fisheries, biodiversity and

conservation in the Mediterranean, including assessment of the small

pelagic (2009-2011) and demersal (2007-) fish stocks on the south coast of

Turkey; and monitoring critically endangered Mediterranean Monk Seal

(1994 -).

Acting as the Turkish National coordinator in an EU-FP-7 (EuroFleets) project targeting harmonization and better use of European Research vessel fleet and also acting as the sub-regional coordinator responsible of Eastern Mediterranean and the Black Sea in a work package.

Management of the fisheries in Reservoir Lakes (Keban and Atatürk) - Turkey. Assessing the size of the fish stocks using hydro acoustic techniques. Evaluation of the dynamics of the common species. Analysing the characteristics of the local artisanal fisheries. Combining the results in steady state balance model to present a sustainable fisheries practice in the lake. The research also involved training of the regional fisheries officers.

Acting as steering committee member of UNDP-SGP-Turkey.

Projects coordinated

1998-2002 Identification of Benthic Flora and Fauna of Mersin islands, determination of threats to their ecology and preparation of the relevant protection measures). Turkish Scientific and Technical Research Council, TUBITAK

1998 - 2000 Management of the Reservoir Lake Keban Fisheries, TUBITAK

1999 - 2000 No Fish - More Fish WWF - International MedPo

2000 - 2003 Ecological and socio-economic importance of a small Marine Protected Area United Nations Development Program – Small Grants Fund

2003 – 2006 Investigations on the Mediterranean monk seal in the Gulf of Iskenderun BTC – Pipeline Co. Turkish Branch

2004 - 2006 Investigations on the changing impacts on Kızılıman Marine Protected Area and responses of the ecosystem, TUBITAK

2005 – 2006 Management of Fisheries in the Ataturk Reservoir Lake, State Institute of Hydrolics

2006 - 2007 Investigations on the Mediterranean Monk Seal inhabiting TRNC and on the possible interactions with Anatolian Colony”, TUBITAK

2007 – 2008 Changes in the demersal fish community structure in the northeastern Levant sea, METU – Scientific research funds

2008 – 2009 Investigations on the Mediterranean Monk Seal on the coast of Antalya, TUBITAK

2008 – present Changes in the fish community structure in the northeastern Levant sea – Phase II

2008 - 2011 Small pelagics of the northeastern Mediterranean – Acoustic estimations, TUBITAK

2011 - 2016 Stock assessment of Black Sea anchovy using acoustic method and establishing a monitoring model for national fisheries data collection program, TUBITAK

2009 - 2012 EUROFLEETS: Towards an Alliance of European Research Fleets, (National coordinator) EC - FP-7

2014 - 2015 Mapping the crucial habitats of critically endangered Mediterranean monk seal in NE Mediterranean Sea, TUBITAK

2012 Population viability analysis of the Mediterranean monk seal in the NE Mediterranean, TUBITAK

4) Employer: Middle East Technical University
Job Title: Deputy Director
Professional Area: Administration and Finance
Start Date: Feb/2007
End Date: Feb/2011
Description of the Job: Acting as vice director of the institute of Marine Sciences, coordinating the research activities and research vessel operations in the institute.

5) Employer : Middle East Technical University
Job Title: Assistant Professor
Professional Area: Fishery and Aquaculture
Start Date : Jan/1993
End Date : Jan/1998
Description of the Job: Teaching postgraduate courses on;
- Introduction to fisheries science
- Biostatistics
- Conservation Biology (as Special Topics)

Organizing and leading fisheries oceanography (multidisciplinary) surveys in the Black Sea and the Mediterranean Sea. Providing scientific consultancy to the governmental organization and authorities on fisheries as a member of the national fisheries advisory committee. Leading nationally (TUBITAK) and internationally (WWF-International, WWF-MedPO, UNDP-SGP, UNEP-RAC/SPA, PADI Foundation US, British Council, Royal Netherlands Embassy, Office of the Counselor for Agriculture, Nature Management and Fisheries) funded conservation and research projects on endangered species (Mediterranean Monk Seal, Posidonia oceanica, Cetaceans).

Lobbying, guiding (and pressurizing) ministries (Ministry of Environment and Ministry of Agriculture and Rural Affairs) and local fishermen for designation of a FRA on the south coast of Turkey.

Monitoring and reporting the recovery of the stocks within the FRA.

6) Employer: Middle East Technical University
Job Title: Instructor
Professional Area: Fishery and Aquaculture
Start Date : Jun/1992
End Date: Jun/1993
Description of the Job : Teaching postgraduate courses;
- Introduction to fisheries science
- Biostatistics

Training staff at national fisheries institutes on acoustic data processing for pelagic fish stock assessment; active participation to national fish stock assessment projects. The post included cooperation and technical assistance to governmental authorities; training personal of governmental fisheries institutes. Taking part in national and international marine research programs, particularly in data processing and reporting. Taking part in international projects as a programmer (NATO-Science for peace, Science for stability TU-Fisheries, TU-Black Sea), the post also involved data processing and reporting.

Employer:	Middle East Technical University
Job Title	Research Assistant
Professional Area	Fishery and Aquaculture
Start Date	Aug/1984
End Date	Jan/1992
Description of the Job:	Taking part in oceanographic surveys (biologic and physical) in the Black Sea and Mediterranean Sea; operating various marine electronics (Echo sounders and SONARs) and oceanographic equipment (CTD probe, Rosette samplers, ADCP, etc.); collecting biological data, including fish, plankton, ichthyoplankton; operating BIOSONICS Hydro Acoustical Instruments; developing a stock assessment software for the national governmental fisheries institutes; developing numerical multi-species fisheries models; attending/leading demersal trawl surveys to monitor the state of the fish stocks. Taking part in international projects (NATO-Science for peace, Science for stability TU-Fisheries, TU-Black Sea)

RESEARCH TOPICS

- Fisheries and Ecosystem Modeling
- Assessment of the fish stocks in the northeastern Mediterranean coast of Turkey, applying wide range of techniques from classical to ecosystem modeling and producing management advice to achieve a sustainable level in fisheries.
- Estimation of the demersal and pelagic fish stocks in the Black Sea. Evaluation of the fishing power of the Turkish fleet and presentation of the consequence of over fishing by various simulation scenarios.
- Management of the fisheries in Reservoir Lakes (Keban and Atatürk) - Turkey. Assessing the size of the fish stocks using hydro acoustic techniques. Evaluation of the dynamics of the common species. Analyzing the characteristics of the local artisanal fisheries. Combining the results in steady state balance model to present a sustainable fisheries practice in the lake. The research also involved training of the regional fisheries officers.
- Small pelagic fishes and management of purse seine fishery
- Marine Conservation and Marine Protected Areas

- Conservation of the Mediterranean Monk Seal, its habitats and food resources. Preparation of a coastal management plans with emphasis on sustainable fisheries management.
- MPA approach to overcome over fishing and conflict with artisanal fishermen; management of fisheries to achieve fish stock recovery and to enable sustainable use.
- Designing a Marine Protected Area model for the Turkish Seas. Monitoring recovery of the ecosystem and combating against invasive species.
- Socio-economic aspects of MPA's
- Inventory of marine fauna and flora in the Mediterranean Sea
- Functions of the sea grass meadows
- Monitoring a sea grass meadow and studying its dynamics and functions against invasive species.
- Zooplankton dynamics
- Developing computer based fish egg identification system
- Zooplankton of the Black Sea, computer simulation of the ctenophore invasion and zooplankton dynamics,
- Use of acoustics in zooplankton biology and ecology
- Estimation of mesozooplankton by means of hydro acoustics

CONSULTANCES

- United Nations Environment Program, Mediterranean Action Plan, Regional Activity Centre for Specially Protected Areas (RAC/SPA) on Turkish Marine Biodiversity Hotspot areas, Fisheries, Marine Protected Areas and Mediterranean Monk Seal
- UN Food and Agriculture Organisation
- Turkish Scientific and Technical Research Council, TUBITAK on Fisheries related issues
- Turkish Ministry of Agriculture and Rural Affairs on Fisheries management related issues
- National Geographic – TURKEY on Marine Biology

MEMBERSHIP

- United Nations Development Program Global Environmental Facilities Small Grants Program National Steering Committee Member (2000 -2003)
- Member of Network of Tropical Fisheries Scientists (1989 -)
- Member of National Monk Seal Committee and Technical Sub-committee (1994 -)
- Member of Science Committee of Turkish Underwater Sports, Life-saving, Water Ski and Fin Swimming Federation (2000 – 2005)
- Member of the Advisory Commission of Aquatic Ministry of Agriculture and Rural Affairs on Fisheries issues (1998 – 2003)
- National Geographic Society
- Turkish Bird Society
- Ecological Research Association
- Levant Nature Conservation Society
- European Cetacean Society

CERTIFICATES

PADI Certificate of "Open Water Diver"

Diving certificate of Turkish Diving Federation

Qualification certificate of "Skipper"

BioSonics Training Program Certificate of "Hydro acoustic assessment techniques"

BioSonics Training Program Certificate of "Echo Signal Processing"

THESIS

GÜCÜ, A.C. 1987. Zooplankton dynamics in the northern Cilician basin. composition and Time series. Master Thesis, METU 178 p.

GÜCÜ A.C., 1991. A fisheries model for the Mersin bay fisheries ecosystem. Ph.D. Thesis. METU. 197p.

Publications

- 1) Stepnowski A., Gücü A.C., And F. Bingel. 1993. Assessment of the pelagic fish resources in the southern Black Sea using echo integration and Dual-Beam processing. Archives of Acoustic, Polish Academy of Science Journal, (18/1) 83-104.
- 2) Gücü A.C. And Bingel F. 1994. Trawlable species assemblages on the continental shelf of the Northeastern Levant Sea (Mediterranean) with an emphasis on Lessepsian migration. ACTA ADRIAT. 35(1/2):83-100.
- 3) Gücü A.C. And Yuksek A. 1994. A program for the identification of the pelagic eggs of Black Sea fishes. NAGA, (17) 4. 53-54 pp.
- 4) Gücü A.C., Bingel F., Avsar D., And N.Uysal. 1994. Distribution and occurrence of Red Sea fish at the Turkish Mediterranean Coast-Northern Cilician basin. ACTA ADRIAT. 34(1/2):103-113.
- 5) Mutlu E, Bingel F., Gücü A.C., Melnikov V.V. Niermann U., Ostr, N.A., Ve Zaika V.E. 1994. Distribution of the new invader Mnemiopsis sp. And the resident Aurelia aurita and Pleurobrachia pileus populations in the Black Sea in the years 1991-1993. ICES J. MAR. SCI. (51): 407-421
- 6) Niermann U., F. Bingel, A. Gorban, A.D. Gordina, A.C. Gücü, A.E. Kideys, A. Konsulov, G. Radu, A.A. Subbotin & V.E. Zaika. 1994. Distribution of anchovy eggs and larvae (*Engraulis encrasicolus* Cuv.) in the Black Sea in 1991 and 1992 in comparison to former surveys. ICES J. MAR. SCI. (51): 395-406
- 7) Gücü A.C. 1995. A Box Model For The Basic Elements Of Northeastern Levant Sea (Mediterranean) Trawl Fisheries. Israel J. of Zool., 41(4): 551-568
- 8) Kideys A.E. & A.C. Gücü. 1995. *Rhopilema nomadica*: a poisonous indo-pacific scyphomedusan new to the Mediterranean coast of Turkey. Israel J. of Zoology, 41(4): 615-617
- 9) Yediler A. & A.C. Gücü. 1997. Human impacts on an ecological heritage - Mediterranean Monk Seal in the Cilician Basin *Fresenius Envir. Bull.* 6:001-008
- 10) Godley, B.J., A.C. Gücü, A.C. Broderick, R.W. Furness & S.E. Solomon (1998) Interaction between marine turtles and artisanal fisheries in the eastern Mediterranean: a probable cause for concern? *Zoology in the Middle East* 16:49-64
- 11) Svetlichny L.S., Hubareva E.S., Erkan F. And A. C. Gücü. 2000 . Physiological And Behavioral Aspects Of *Calanus Euxinus* Females (Copepoda:Calanoida) During Vertical Migration Across Temperature and Oxygen Gradients. *Marine Biology.* (137): 963-971

- 12) Gücü A. C., 2002. Can over fishing be responsible for the successful establishment of *Mnemiopsis leidyi* in the Black Sea ? *Estuar. Coast. Shelf Sea.* (54): 439-451
- 13) Gücü A.C., Gücü G. And Orek H., 2004. Habitat use and preliminary demographic evaluation of the critically endangered Mediterranean monk seal (*Monachus monachus*) in the Cilician Basin (Eastern Mediterranean) *Biological Conservation* (116): 417-431
- 14) Gucu A.C. 2009 Preliminary study on the effects of photo traps used to monitor Mediterranean monk seal *Monachus monachus* *Endangered Species Research* 10:281-285
- 15) Gucu A.C., Ok M. and Sakinan S. 2009. A survey on the critically endangered Mediterranean monk seal, *Monachus monachus* (Hermann, 1779) inhabiting the coast of Northern Cyprus. *Israel Journal of Ecology and Evolution* 55, 77-82
- 16) Gucu A.C., Sakinan S., Ok M., 2009. Occurrence of the critically endangered Mediterranean Monk Seal, *Monachus monachus*, at Olympos-Beydaglari National Park, Turkey (Mammalia: Phocidae), 2009, *Zoology In The Middle East* 46(1): 3-8
- 17) Gucu, A. C.; Bingel, F. 2011,, Hake, *Merluccius merluccius* L., in the northeastern Mediterranean Sea: a case of disappearance, *Journal Of Applied Ichthyology* (27/4): 1001–1012
- 18) Zervoudaki, S.; Christou, E. D.; Assimakopoulou, G.; Orek, H.; Gucu, A. C.; Giannakourou, A.; Pitta, P.; Terbiyik, T.; Yucel, N.; Moutsopoulos, T.; Pagou, K.; Psarra, S.; Ozsoy, E.; Papanathanassiou, E., 2011, Copepod communities, production and grazing in the Turkish Straits System and the adjacent northern Aegean Sea during spring, *Journal Of Marine Systems* 86: 45-56.
- 19) Gucu, A.C., 2012. Impact of Depth and Season on the Demersal Trawl Discard, *Turkish Journal Of Fisheries And Aquatic Sciences*
- 20) Giakoumi S, Sini M, Gerovasileiou V, Mazor T, Beher J, Possingham HP, et al. (2013) Ecoregion-Based Conservation Planning in the Mediterranean: Dealing with Large-Scale Heterogeneity. *PLoS ONE* 8(10): e76449. Doi:10.1371/journal.pone.0076449
- 21) Inanmaz, O.E., Degirmenci O, Gucu A.C., 2014. A new sighting of the Mediterranean Monk Seal, *Monachus monachus* (Hermann, 1779), in the Marmara Sea (Turkey) *Zoology in the Middle East* (60/3)
- 22) Karahan A., Borsa P., Gucu A. C., Kandemir I., Ozkan E., Orek Y. A, A. S.C., Koban E. Togan I. 2014. Geometric morphometrics, Fourier analysis of otolith shape, and nuclear-DNA markers distinguish two anchovy species (*Engraulis* spp.) in the Eastern Mediterranean Sea. *Fisheries Research.* (159): 45–55
- 23) Crise, A., Kaberi, H., Ruiz, J., Araskevich, E., Giani, M., Karageorgis, A.P., Prieto, L., Pantazi, M., Gonzalez-Fernandez, D., Gücü, A.C., Kideys, A.E., Koçak, M., Salihoğlu, B., Tuğrul, S., Uysal, Z. (Et All..) 2015. “A MSFD complementary approach for the assessment of pressures, knowledge and data gaps in Southern European Seas: The PERSEUS experience” *Marine Pollution Bulletin*, 95, 1, 28-39, June 2015
- 24) Eryasar A. R., Ozbilgin H., Gucu A.C., Sakinan S., 2014. Marine debris in bottom trawl catches and their effects on the selectivity grids in the north eastern Mediterranean, *Marine Pollution Bulletin* 81(1): 80-84
- 25) Karamanlidis A., Dendrinou P., Fernández de Larrinoa P., Gücü A.C., Johnson W.M., Kiraç C.O. and Pires R., 2015. The Mediterranean monk seal *Monachus monachus*: status, biology, threats, and conservation priorities, 2015, *Mammal Review* Volume 46, Issue 2, pages 92–105, April 2016

- 26) Tsagarakis K., Başusta A., Başusta N., Biandolino F., Bostanci D., Buz K., Djodjo Z., Dul?i? J., Gökoğlu M., Gücü A.C., Machias A., Maravelias C.D., Özvarol Y., Polat N., Prato E., Yedier S., Vasilakopoulos P., 2015. New Fisheries related data from the Mediterranean Sea (October 2015), 2015, Mediterranean Marine Science 16/3, 2015, 703-713
- 27) Gucu, Ali Cemal; Inanmaz, Ozgur Emek; Ok, Meltem; Sakinan, Serdar, 2016 Recent changes in the spawning grounds of Black Sea anchovy, *Engraulis encrasicolus*, 2016, Fisheries Oceanography Volume 25, Issue 1 Pages 1–104
- 28) Brosset, Pablo; Fromentin, JeanMarc; Van Beveren, Elisabeth; Josep, Lloret Marques; V. Basilone, Gualtiero; Bananno, Angelo; Carpi, Pierra; Fortunata, Donata; vanja, Cikec Kec; de Felice, Andrea; Ferri, Rosalia; Gasparevic, Denis; Giraldez, Ana; Gücü, Ali Cemal; Giraldez, Ana; Leonori, Iole; Palomera, Isabel; Somarakis, Stelios; Ticina Vjekoslav; Tores, Pedro; Ventora, Ana; Zorica, Barbara; Menard, Frederic; Saraux, Claire, 2017. Spatio temporal patterns and environmental controls of small pelagic fish body condition from contrasted Mediterranean areas. *Progress in Oceanography* 151: 149-162
- 29) Gücü Ali Cemal; Genç Yaşar; Dağtekin Murat; Sakinan Serdar; Ak Orhan; Ok Meltem; Aydın İlhan, 2017. On Black Sea Anchovy and Its Fishery. *Reviews in Fisheries Science Aquaculture* 25(3): 230-244.
- 30) Sakinan Serdar, GÜCÜ ALİ CEMAL, 2017. Spatial distribution of the Black Sea copepod *Calanus euxinus* estimated using multi frequency acoustic backscatter. *ICES Journal of Marine Science* 74(3) 832:846
- 31) Gücü, Ali Cemal; Genç, Yaşar; Başçınar, Nimet Selda; Dağtekin, Murat; Atılğan, Elvan; Erbay, Murat; Akpınar, İlkey Özcan; Kutlu, Sebahattin. 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
- 32) Libralato, Simone; Colloca, Francesco; Gücü, Ali Cemal, Maravelias, Christos D; Solidoro, Cosimo; Villasante Sebastián; Cardinale, Massimiliano. 2018. Editorial: Challenges and Opportunities for the EU Common Fisheries Policy Application in the Mediterranean and Black Sea. *Frontiers in Marine Science*. Vol.5.
- 33) Ozbilgin, Yeliz Doganyilmaz; Kalecik Ebrucan; Gücü, Ali Cemal. 2018. First Record of Humpback Dolphins in Mersin Bay, the EasternMediterranean, Turkey. *Turkish Journal of Fisheries and Aquatic Sciences*, 18(1): 1303-2712
- 34) Ok, Meltem; Gücü Ali Cemal (2019). A study on European anchovy (*Engraulis encrasicolus*) swimbladder with some considerations on conventionally used target strength. *TURKISH JOURNAL OF ZOOLOGY*, 43(2), 203-214.
- 35) Kurt M. and Gücü A.C. 2021. Demography and population structure of Northeastern mediterranean monk seal population. *Mediterranean Marine Science*. 22(1) DOI: <https://doi.org/10.12681/mms.21913>
- 36) Akkuş G. and Gücü A.C. (2021). Spatial Variation of Larval Ascaridoid Nematode (Nematoda: Chromadorea: Ascaridoidea) Infections in the Black Sea Anchovy (*Engraulis encrasicolus*). *Journal of Turkish Zoology*
- 37) Gücü A.C., Ok M., Ünlüoğlu A., Tıraşın M., Karakulak S., Aydın M.C., Beklen S.Ç. (2021). Relative body condition of Red Mullet (*Mullus barbatus*) and its applicability as an indicator of environmental status. *Regional Studies in Marine Science*

- 38) Gücü A.C., Ünal V., Ulman A., Morello E.B. , Bernal M. 2021. Chapter 9. Management responses to non-indigenous species in the Mediterranean and the Black Sea in the face of climate change. Bahri, T., Vasconcellos, M., Welch, D.J., Johnson, J., Perry, R.I., Ma, X. & Sharma, R., eds. Adaptive management of fisheries in response to climate change. FAO Fisheries and Aquaculture Technical Paper No. 667. Rome, FAO. <https://doi.org/10.4060/cb3095en>

Full paper presented at and published in the proceedings of a refereed conference regularly held by an international organization

- 1) Bingel, F, Avsar, D. And A.C.Gücü, 1987. Occurrence of jellyfish in Mersin Bay. In: Jellyfish blooms in the Mediterranean. Proceedings of the II workshop on jellyfish in the Mediterranean Sea. MAP Technical Reports Series No:47 65-71.
- 2) Niermann U., F. Bingel, A. Gorban, A.D. Gordina, A.C. Gücü, A.E. Kideys, A. Konsulov, G. Radu, A.A. Subbotin & V.E. Zaika 1993. Distribution of anchovy eggs and larvae (*Engraulis encrasicolus* Cuv.) in the Black Sea in 1991 and 1992 in comparison to former surveys. ICES Statutory Meeting, CM 1993
- 3) Gücü A.C. . 1997. Role played by fishing on the Black Sea ecosystem. E.Özsoy and A. Mikaelyan (eds.), Sensitivity to Change: Black Sea, Baltic Sea and North Sea, Kluwer Academic Publishers. the Netherlands :149-162.
- 4) Anninsky B.E., Romanova Z.A., Abolmasova G.I., Gücü A.C., Kideys A.E. 1998. Ecological and Physiological State of the Ctenophore *Mnemiopsis leidyi* (Agassiz) in the Black Sea in Autumn 1996. NATO TU-Black Sea Project: Ecosystem Modelling as a Management Tool for the Black Sea. L. Ivanov and T. Oguz (eds.), Kluwer Academic Publishers, Netherlands, 1998. Vol.1, pp. 249-262.
- 5) Arashkevich E., Svetlichny L., Gubareva E., Besiktepe S., Gücü A.C., Kideys A.E. 1998. Physiological and Ecological Studies of *Calanus euxinus* (Hulsemann) from the Black Sea with comments on its life cycle. Physiological and ecological studies of *Calanus euxinus* (Hulsemann) from the Black Sea with comments on its life cycle. NATO TU-Black Sea Project: Ecosystem Modelling as a Management Tool for the Black Sea. L. Ivanov and T. Oguz (eds.), Kluwer Academic Publishers, Netherlands, 1998. Vol.1, pp. 351-366.
- 6) Gücü A. C. And Oguz T., 1998. Modeling trophic interrelationships in the Black Sea. NATO TU-Black Sea Project: Ecosystem Modelling as a Management Tool for the Black Sea. L. Ivanov and T. Oguz (eds.), Kluwer Academic Publishers, Netherlands, 1998. Vol.2, pp. 359-371.
- 7) Shiganova T.A., A. C. Gucu, A Kideys, U Niermann, V.S.Khoroshilov,1999. Changes in species diversity and abundance of the main components of the Black Sea pelagic community during the last decade.NATO TU Black Sea Ecosystem modelling as management tool for the Black Sea. L. Ivanov and T Oguz (eds.) KLUWER Academic Publ. Netherlands 1998 Vol 1. Pp 171-188.
- 8) Bingel F., Mutlu E., Gücü A.C., 2002 Shifts in fish ecosystem in the Turkish seas as inferred statistically. International Conference Oceanography Of The Eastern Mediterranean And Black Sea: Similarities And Differences Of Two Interconnected Basins - 14-18 October 2002 METU Cultural and Convention Center Ankara/TURKEY
- 9) Örek H., Gücü A.C., Bingel F., 2002 An application of mass balance ecopath model to the trophic structure in the Black Sea “after anchovy collapse” International Conference Oceanography Of The Eastern Mediterranean And Black Sea: Similarities And Differences Of

Two Interconnected Basins - 14-18 October 2002 METU Cultural and Convention Center
Ankara/TURKEY

- 10) Gücü G, Gücü A.C., 2002 Ecological significance of sea grass meadows (*Posidonia oceanica* (L.) delile) in Bozyazi-Kizilliman marine protected area International Conference Oceanography Of The Eastern Mediterranean And Black Sea: Similarities And Differences Of 3Two Interconnected Basins - 14-18 October 2002 METU Cultural and Convention Center Ankara/TURKEY
- 11) Erkan F., Gücü A.C., Örek H., 2002 A study on recovery of the fish stocks in Kizilliman (eastern Mediterranean) marine protected area International Conference Oceanography Of The Eastern Mediterranean And Black Sea: Similarities And Differences Of Two Interconnected Basins - 14-18 October 2002 METU Cultural and Convention Center Ankara/TURKEY
- 12) Gucu A.C. And Gucu G.M, 2002. Why Lessepsian immigrants are so successful in colonizing the eastern Mediterranean Sea and who are the defenders of the native ecosystem? Proceedings of the Workshop on Lessepsian Migration. 75-82
- 13) Gucu A.C. And Erkan F. 2005. A holistic approach for the conservation of the Mediterranean monk seal on the Cilician coast of Turkey. International Workshop on Marine & Coastal Protected Areas Meknès – MOROCCO 23–25 March 2005
- 14) Gucu A. C., 2006. Essential fish habitats in the NE Levant Sea.. European Commission Sub Group Meeting on sensitive and essential fish habitats in the Mediterranean sea (EC-SGMED-06-01). Scientific, Technical and Economic Committee for fisheries opinion European Commission. Rome, 6-10 March 2006.
- 15) Akoglu, E., Gucu, A. C., 2007. Investigations on the structure of fish stocks in Ataturk Dam Lake by using classical and acoustical approaches Official Publication of The 19th International Congress on Acoustics, Eds: Antonio Calvo-Manzano, Antonio Pérez-López, Salvador Santiago, Madrid, Spain.

Abstract of a paper presented at and published in the proceedings of a refereed conference regularly held by an international organization

- 1) Kideys A.E., Bingel F., Unsal M., And A.C. Gücü, 1988. Annual variations in the plankton populations of the Northern Cilician Basin. Rapp., Comm., Int., Mer Medit. 31,2. 219.p.
- 2) Yediler A. And Gücü A.C. 1995. Human impacts on ecological heritage - Mediterranean Monk Seal in Cilician Basin - MESAMP, Rhodes, 9-14 October 1995.
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