

Turkish Marine
Research
Foundation
Annual Report

2022



PREFACE

Dear sea lovers, supporters of the Foundation, Founding and General Assembly members,

A year has passed, but the problems in the oceans and seas have not diminished. Turkish seas are under threat more than ever that is why we say "Protecting our seas is protecting the country". For this reason, we say "Sustainable fisheries and blue economy". For this reason, we say, "The protection of living resources is important for food security".

This year, all our friends, employees, and members of the management and advisory board have done important work. I would like to thank them all very much.

The books we published this year were marvellous. We held many meetings, and our campaigns continued despite the pandemic and ended successfully. The Marmara Sea Symposium was successful again. Our work on determination of names of undersea formations was published in the official gazette. Again, we have taken some sharks and coral species under protection. This has been a source of pride and happiness for us. We put the new videos we prepared on our YouTube channel.

We need to work hard, Pinna's are dying all over the Mediterranean, and puffer fish have reached the Black Sea. Jellyfish have invaded the Marmara Sea... The problem of mucilage is evolving in other places... TUDAV is a reference point, an information bridge, and a means of cooperation not only for Turkey but also for the countries bordering the Mediterranean and Black Seas. Most importantly, it is an environment for the production of knowledge, which is why our scientific journal is now attracting more attention.

We have started our "BRIDGE-BS" project, which we planned last year, and the Ocean Decade process is in full swing. We are preparing for our new EU-funded project "Shore". We have a lot more work... I wish you all a healthy and happy new year.

Chairman of the Board

Prof. Bayram ÖZTÜRK

OBJECTIVES OF THE TURKISH MARINE RESEARCH FOUNDATION

Databases

Since valuable studies on our seas are scattered, it is difficult for researchers to access the information they need. For this reason, a database on different disciplines of marine sciences is being created. Although this is a time-consuming and difficult task, it is still ongoing.

Research

The Turkish Marine Research Foundation supports various research projects, particularly on biodiversity, either with its own resources or by contacting individuals and institutions to provide resources. In this context, a long-term project on the Turkish Straits is being carried out. The data obtained from the research are published through our journal.

Publications

While the researches are presented to the scientific world in Turkish and foreign languages, guidebooks are also prepared for the public in order to introduce and popularize our seas. The number of books published by our Foundation since its establishment has exceeded 60 and it plays a pioneering role in the field of marine sciences.

Education

TUDAV gives great importance to the dissemination of all kinds of information about our seas to large masses. In certain periods, seminars and conservation measures are explained especially to fishermen and other layers of society. Colouring books for children and books on species conservation are distributed in many primary schools. We also have posters for foreign marine species.

Special Protected Areas

We continue our efforts to establish underwater marine parks and special protection areas where research and applications can be carried out and people can be introduced to marine life. The Gökçeada Marine Underwater Park created by our foundation is a good example in this regard. In addition, we share our opinions and suggestions on species that need to be protected with the relevant ministries.

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ACTIVITIES



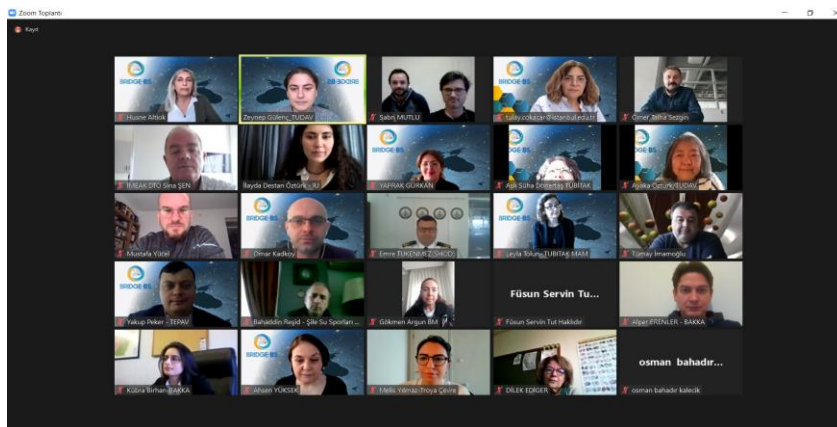
MARMARA SEA 2022 SYMPOSIUM (08-09.01.2022)

On January 8-9, 2022, we successfully held the third Marmara Sea 2022 Symposium, which we organize once every ten years but postponed due to the Covid pandemic, at the İş Towers Hall. During the Symposium, which we organized with the support of Türkiye İş Bankası, current and vital issues related to the Marmara Sea were discussed with the contribution of 189 scientists and experts from 56 institutions with 71 papers. At the end of the symposium, placards were given to scientists and researchers who contributed to the Marmara Sea. Among the awardees were, Fisheries Engineer Hakan KABASAKAL, Prof. Süleyman TUĞRUL, Prof. Ahmet Cevdet YALÇINER, Prof. Naci GÖRÜR, Prof. Mehmet Namık ÇAĞATAY and Assoc. Prof. N. Eda TOPÇU.



FIRST WORKSHOP ORGANIZED UNDER THE BRIDGE-BS PROJECT (16-17.02.2022)

On February 16 - 17, 2022, the "Black Sea Blue Economy Living Laboratories 1st Workshop" was held online.





TUDAV TURNS 25 (18.02.2022)

Founded 25 years ago, the 25th-anniversary special logo of our foundation was designed to be used in activities for a whole year.



THE MEDITERRANEAN ANGELSHARKS SUBREGIONAL ACTION PLAN (SubRAP) (01.03.2022)

The sub-regional action plan for the Northeastern Mediterranean Region for Mediterranean Angel Sharks (Squatina), to which we contributed, has been published in Turkish and several other languages.



Mediterranean Angel Sharks: SubRegional Action Plan (SubRAP) GSA 24 (Northern Levant Sea)

Emre Fakioglu¹, Rebecca L. Gillham², Ali R. Hood³, Hakan Kabasakal⁴, Ayse Oruc¹, Ayaka A. Ozturk⁵, Aylin Ulman⁶
¹WWF Shark Trust²TUDAM Istanbul University³Mersea Marine Consulting

INTRODUCTION

Three species of Critically Endangered angel shark are present in the Mediterranean with overlapping ranges:

- *Squatina oculata* Sawback Angelshark (EN), Çivili Keler (TR)
- *Squatina oculata* Smoothback Angelshark (EN), Benekli Keler (TR)
- *Squatina squatina* Angelshark (EN), Keler (TR)

The *Mediterranean Angel Sharks: Regional Action Plan* (Gordon et al., 2019) sets out a roadmap to help restore these enigmatic species to robust populations in the region. It acts as a call to action for stakeholders to work together to address the challenges faced by these three imperilled species.

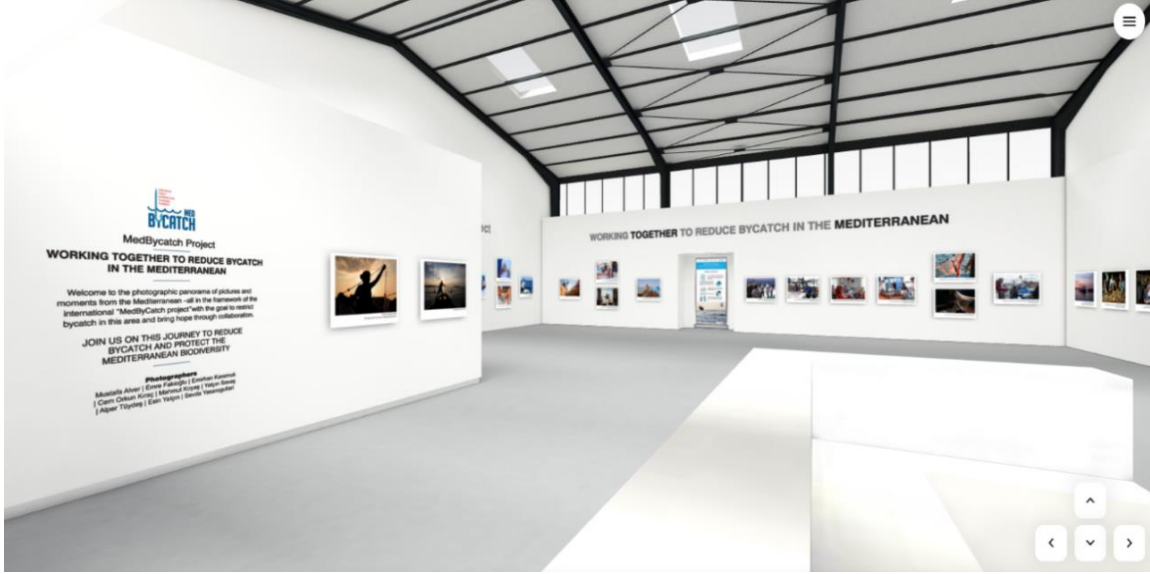
With over 20 coastal states and territories, the complex nature of the Mediterranean creates further need for highly collaborative action to build capacity for angel shark conservation. To allow a tailored approach in priority regions, SubRegional Action Plans (SubRAPs), such as this, are designed to facilitate further coordinated action by engaging regional stakeholders including governments and industry.

The *Mediterranean Angel Sharks: Regional Action Plan* should be referred to for more detail.



VIRTUAL PHOTO EXHIBITION (03.03.2022)

On March 3, World Wildlife Day, the virtual photo exhibition "WORKING TOGETHER TO REDUCE MASSIVE BYCATCH IN THE MEDITERRANEAN" organized by the Mediterranean Association to Save the Sea Turtles (MEDASSET) and MEDBYCATCH Project, of which we are a partner, was opened.



ANTARCTICA SCIENTIFIC ARTICLE HAS BEEN PUBLISHED (29.03.2022)

As a result of the First Turkish Antarctic Research Expedition in 2016 and the scientific sampling conducted in 2017, supported by our Foundation, our scientific article on the extent of pollution around Galindez Island in the Antarctic Peninsula, the types and levels of pollutants reported for the first time in Antarctica has been published.



Article

Assessment of Pesticide, Dioxin-like Polychlorinated Biphenyl, and Polycyclic Aromatic Hydrocarbon Existence around Galindez Island, and Comparison with the Organic Pollution Bibliography of the Antarctic Peninsula

Halim Aytekin Ergül^{1,*,} Türkan Erdem¹, Ezgi Gizem Petin¹, Arda M. Tonay^{2,3}, Serdar Aksan¹ and Bayram Öztürk^{2,3}

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² Faculty of Aquatic Sciences, Istanbul University, 34134 Fatih, Turkey; atonay@istanbul.edu.tr (A.M.T.); ozturk@istanbul.edu.tr (B.O.)





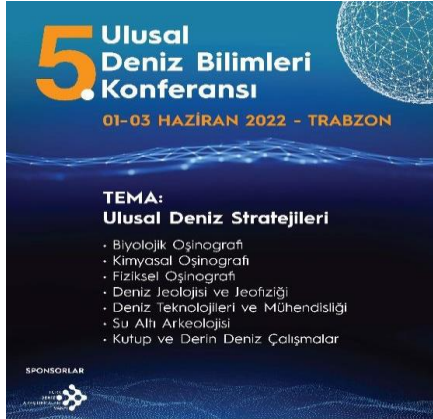
PLANNING AND COORDINATION BOARD OF NAVIGATION HYDROGRAPHY AND OCEANOGRAPHY SERVICES 2022 ORDINARY MEETING WAS HELD (30-31.05.2022)

At the 2022 Ordinary Meeting of the Navigation Hydrography and Oceanography Services Planning and Coordination Board, hosted by Karadeniz Technical University in Trabzon, we presented the activities we carried out in the past year. In the meantime, we were elected to the Ocean Decade Commission.



5th NATIONAL MARINE SCIENCES CONFERENCE (01-03.06.2022)

We took part in the 5th National Marine Science Conference held on June 1-3 with our presentations.





8 JUNE WORLD OCEANS DAY (08.06.2022)

With the support of ÇEVKO Foundation, the diving event was organized by the Respect to Depth Dive Society and Turkish Divers Sports Club Association. The event was organized with the participation of the Turkish Marine Research Foundation, Istanbul University, Institute of Marine Sciences and Management, and DAK-SAR, and underwater cleaning was carried out in Ortaköy/Beşiktaş area.



SEMINAR ON "BIODIVERSITY CONSERVATION AND SUSTAINABLE NATURAL RESOURCE MANAGEMENT IN TÜRKİYE" (10.06.2022)

During the meeting, experts discussed the latest developments, achievements and areas for improvement in Türkiye and the work of AFD (French Development Agency) on biodiversity conservation in Türkiye. Prof. Bayram ÖZTÜRK, President of the Foundation, presented "On the occasion of World Oceans Day on June 8: Conservation of Marine Biodiversity in Türkiye", while our Board Member Sibel SEZER, PhD made a presentation titled "Sustainable Blue Economy and Its Importance for Türkiye".





SMART EQUIPMENT AND IDEA DEVELOPMENT COMPETITION ORGANIZED TO REDUCE BYCATCH (24.06.2022)

The Bycatch Smart Equipment Competition was completed. Innovative solutions were proposed to reduce bycatch in fisheries, to make fisheries more ecologically and economically sustainable, and to support the protection of the health of the seas. The awards were presented at the ceremony held in Izmir.



**HEDEF DIŐI AVIN AZALTILMASI İÇİN
AKILLI EKİPMAN VE FİKİR GELİŐTİRME YARIŐMASI**



2022 INTERNATIONAL YEAR OF SMALL FISHERIES AND AQUACULTURE, OUR SHORT EDUCATIONAL DOCUMENTARY ABOUT TRADITIONAL SWORD FISHING IN GÖKÇEADA HAS BEEN PUBLISHED (27.06.2022)

As part of the 2022 International Year of Small Fisheries and Aquaculture, our short educational documentary about the traditional swordfish fishery in Gökçeada has been released.





PARTICIPATION IN OCEANS CONFERENCE (29.06.2022)

At the Oceans Conference organized by the United Nations in Lisbon, Portugal, we drew attention to the relationship between alien species in the Mediterranean and climate change with the side event we organized.



INFORMATION SHARING WORKSHOP ON BYCATCH WAS ORGANISED (29.07.2022)

Initiated in 2017, this project on bycatch in the Mediterranean was organized by The MedBycatch Project, which aims to protect sensitive species such as sharks and sea turtles, is carried out in cooperation with WWF, Doğa Derneği, DEKAMER, and TUDAV.

**HEDEF DIŞI
BALIKÇILIKLA
İLGİLİ BİLGİ
PAYLAŞIM
ÇALIŞTAYI**

Tarih: 29.07.2022
Saat: 15:00-15:00

Bağlantı: <https://bit.ly/3PTEnyS>
Toplantı Kimliği: 858 7407 3167
Parola: 063502

MAVA
MED BYCATCH
WWF
Doga
MEDALSET
TUDAV



BSYA AWARENESS CAMPAIGN PHOTO CONTEST HAS BEEN LAUNCHED (15.08.2022)

The Black Sea Young Ambassadors (BSYA) awareness campaign for the Black Sea Photo Contest "Visual Story of the Black Sea: Different Coasts Different Reflections and One Sea" was launched to celebrate International Youth Day.

PHOTO CONTEST
VISUAL STORYTELLING
OF THE BLACK SEA

BLACK SEA
Young
AMBASSADORS

DIFFERENT SHORES

DIFFERENT REFLECTIONS

AND ONE SEA

APPLY HERE!

SURPRISE PRIZES

WHO > PHOTOGRAPHERS FROM ALL AGES CAN ATTEND
WHEN > APPLY UNTIL 6 SEPTEMBER 2022 AT MIDNIGHT (GMT+3)
HOW > ENTRIES SHOULD BE SUBMITTED TO THE BLACK SEA CONNECT WEBSITE



BRIDGE-BS 1ST SUMMER SCHOOL WAS HELD (23-25.08.2022)

On 23-25 August 2022, a summer school was successfully held with the participation of 12 early career marine experts from the Black Sea countries. During summer school, leading researchers and blue economy experts from all over Europe shared the basics of marine science and sustainable blue economy in the Black Sea.





JOINT WORKSHOP WITH THE FRENCH DEVELOPMENT AGENCY (AFD) (31.08.2022)

Our Foundation and the French Development Agency (AFD) organized a joint workshop on "Identifying Financing and Project Opportunities for Sustainable Blue Economy and Marine Biodiversity Conservation in Türkiye" in Ankara.



NEW PROTECTED SPECIES (13.09.2022)

With the recommendations of our Foundation, 7 more marine species (Great white shark *Carcharodon carcharias*, yellow gorgonian *Eunicella cavolini*, white gorgonian *Eunicella singularis*, violescent sea-whip *Paramuricea clavata*, Mediterranean gorgonian gorgon *Spinimuricea klavereni*, stone coral *Cladocora caespitosa*, abalone *Tonna galea*) were taken under protection with the communiqué of September 2022. Hunting, collection and sale of these species are prohibited.





CALL FOR BAN ON SHARK FISHING

Mass awareness was tried to be ensured for shark species whose hunting is prohibited.



HIGH TECHNOLOGY SUMMIT MEETING FOR THE BLACK SEA WAS HELD (27-28.09.2022)

The first High Technology Summit for the Black Sea (HTS4BS) was held in Varna (Bulgaria). The meeting was organised to create a supportive environment for companies, entrepreneurs, organisations and universities to share the latest technological developments and generate business ideas. Subsequently, the 1st Plenary Session of BRIDGE-BS was successfully organised with the participation of 100 experts, with enlightening WP presentations and fruitful discussions.





SUSTAINABLE BLUE ECONOMY ANALYSIS STUDY (01.10.2022)

Our Foundation is carrying out a Sustainable Blue Economy analysis for the French Development Agency (AFD). A questionnaire was also prepared for the main sectors representing the "Blue Economy" in our country.



LAST MEETING OF THE MEDBYCATCH PROJECT WAS HELD (04.10.2022)

The final meeting of the MedBycatch project, of which Turkish Marine Research Foundation (TUDAV) is a partner, was held in Malaga. The Med Bycatch Project, funded by MAVA, focuses on the incidental bycatch of vulnerable marine species in the Mediterranean Basin by fishing nets and lines and carries out actions that include measures aimed at reducing bycatch.





NAMES OF UNDERSEA FORMATIONS WERE DETERMINED (10.10.2022)

The names of important undersea formations that do not have Turkish names on nautical charts, an issue that our Foundation has been working on for about ten years, were published in the Official Newspaper No. 31977 published on 8 October 2022. Karaburun and Boğaziçi Sea Canyons, Karasu Sea Canyon in the Black Sea; Marmara Trough in the Sea of Marmara; Great Anatolian Bank, West Anatolian Bank, Anatolian Bank, Fisherman's Bank, Dolphin Bank in the Aegean Sea; Piri Reis Sea Mountains, Finike Sea Mountains, Sırrı Erinç Sea Plateau, Bilim Bank Mediterranean Sea Mountain in the Mediterranean Sea.

Balıkçı Bankı, Yunus Bankı



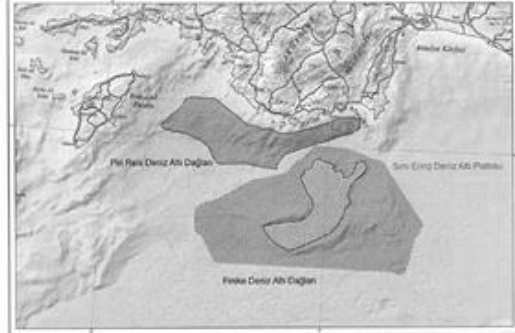
Bilim Sığılığı



Akdeniz Deniz Altı Dağı



Piri Reis Deniz Altı Dağları, Finike Deniz Altı Dağları, Sırrı Erinç Deniz Altı Platosu



SCIENTIFIC CONFERENCE ON THE EFFECTS OF MARINE INVASIVE ALIEN SPECIES WAS HELD (21-23.11.2022)

Within the scope of the Marias Project, the "Effects of Marine Invasive Alien Species Scientific Conference was held in Antalya. Our foundation president Prof. Bayram ÖZTÜRK was invited to the conference as the session chairman, and one of our board members, Assist. Prof. Selin Gamze SÜMEN's speech on the effects of invasive species on human health attracted great attention. Assist. Prof. Selin Gamze SÜMEN's speech on the effects of invasive species on human health was met with interest. In addition, board member Elif ÖZGÜR, PhD discussed the ocean literacy course of our foundation at the conference.



WORKSHOP ON CONSERVATION AND MANAGEMENT OF COASTAL AND MARINE ECOSYSTEMS WAS HELD (23 - 25.11.2022)

The Workshop on the Protection and Management of Coastal and Marine Ecosystems and Mapa Buoy Application Models Workshop was held in Dalaman, where our Foundation President Prof. Bayram ÖZTÜRK was the invited speaker and the panel on the Protection of Marine Biodiversity in Marine Protected Areas in Türkiye was chaired by the Ministry of Environment, Urbanisation and Climate Change.





MARINE INVASIVE ALIEN SPECIES PROJECT MEETING WAS HELD (30.11.2022)

Our Board Member Assoc. Prof. Onur GÖNÜLAL attended the management plan meeting prepared for İğneada region within the scope of the "Marine Invasive Alien Species Project" carried out by the Republic of Türkiye Ministry of Agriculture and Forestry, Nature Conservation and National Parks in cooperation with UNDP Türkiye with the financial support of the Global Environment Facility.



MEETING OF THE COMMITTEE ON NAMES OF UNDERWATER FORMATION HELD AT THE HEADQUARTERS OF THE INTERNATIONAL HYDROGRAPHIC ORGANISATION (IHO) (28.11- 01.12.2022)

TUDAV President Prof. Bayram ÖZTÜRK and TUDAV Maritime Advisor E. Admiral Mustafa İPTEŞ attended the 35th SCUFN (Sub Committee on Undersea Feature Names) meeting held at the International Hydrographic Organisation (IHO) headquarters in Monaco as observers. In the meeting, information was exchanged and preliminary discussions were held for the international registration of the underwater geographical formations newly identified in the surrounding seas of Türkiye and approved by Presidential Decree No. 6188, which is planned to be applied for next year.





TÜRKİYE-PAKISTAN MARITIME SECTOR EXPERIENCE SHARING AND BLUE ECONOMY WEBINAR (05.12.2022)

Turkish Marine Research Foundation (TUDAV), and National Institute of Maritime Affairs - NIMA of Pakistan, jointly hosted a online webinar on the theme of "Blue Economy and Sharing Experiences of Türkiye-Pakistan Maritime Sectors" to gain mutual understanding of Pakistan-Türkiye maritime experiences and to provide expert policy recommendations on blue economy and maritime cooperation.



MARITIME SECURITY WORKSHOP WAS ORGANISED IN THE BLACK SEA IN THE CONTEXT OF RUSSIA-UKRAINE WAR (09.12.2022)

In the workshop, the economic effects of the war in the Black Sea, the environmental dimension of the war, the military analysis and dimension of the war, as well as the source and arrival directions of the mines, the situation of NATO and other countries in the war, the reflections of the war on the Montreux Convention, and the developments in fisheries due to the war were discussed in detail. In addition, the political repercussions of the war and the changes it will bring about in the international order, especially the changes in energy and food security, are also analysed with an academic understanding. Crimes committed during the war, abnormal dolphin deaths and the risk of oil spillage were also discussed by experts.





PRESENTATION OF MARINE LITERACY COURSE FOR THE PROTECTION AND SUSTAINABILITY OF MARINE ECOSYSTEM IN TÜRKİYE (11.12.2022)

Our General Assembly member Elif ÖZGÜR, PhD made a presentation titled "Marine Literacy Course for the Protection and Sustainability of the Marine Ecosystem in Türkiye".



III.NATIONAL MARINE MONITORING AND ASSESSMENT SYMPOSIUM (06-09.12.2022)

At the III National Symposium on Integrated Marine Monitoring and Assessment in Antalya (6-9 December 2022), our Foundation's Photography Exhibition "Marine Alien Species on the Aegean and Mediterranean Coasts of Türkiye" took place.





OCEAN LITERACY COURSES COMPLETED

We organised the Ocean Literacy Course for the Protection and Sustainability of the Marine Ecosystem in Türkiye together with the International Ocean Institute (IOI) twice, on 4 April-5 May and 14 November-23 December, in a very productive and enjoyable way thanks to the high participation of our experts and trainees.



ÇEVİRİMCİ IOI OKYANUS AKADEMİSİ Türkiye PROGRAMI

Türkiye'de Denizel Ekosistemin Korunması ve Sürdürülebilirliği İçin Deniz Okuryazarlığı Kursu

tudav.org

4 Nisan 2022 Perşembe günü International Ocean Institute (IOI) ve Türk Deniz Araştırmaları Vakfı (TUDAV) işbirliğiyle gerçekleştirilen bu kurs Türkiye'de denizel ekosistemin korunması ve sürdürülebilirliği için Deniz Okuryazarlığı Kursu'na başlamıştır.

Kurum beklentilerimiz çok yüksekteydi ve bir yıl sürmüştü. Toplamda 385 denizci/uzaycı katılımcıya ulaştığımız bu ilk çevrimiçi kurs programımızda IOI desteği ve katılımı sayesinde başarılı bir şekilde seyahat eden ve katılan bir ekip ile başarılı bir şekilde deniz okuryazarlığı kursunu tamamlayarak denizel ekosistemin korunması ve sürdürülebilirliği için önemli bir adım atmış olduk.

Bu süreç IOI kurulumunun 10. yılı ve TUDAV 25. yıldönülerini topamsal olarak kutlamak için güzel bir fırsat oldu. Bu süreçte deniz okuryazarlığı kursu ile ilgili bir dizi etkinlik planlanıyor. Kursun ilginç bulgularını paylaşarak denizel ekosistemin korunması ve sürdürülebilirliği için önemli bir adım atmış olduk. Bu süreçte deniz okuryazarlığı kursu ile ilgili bir dizi etkinlik planlanıyor. Kursun ilginç bulgularını paylaşarak denizel ekosistemin korunması ve sürdürülebilirliği için önemli bir adım atmış olduk.

Kurs Programı
(Eğitim oturumları 20:00-22:00 saatleri arasında gerçekleştirilecektir)

Oturum Başlığı	Tarih	Konu Başlıkları	Konuşmacı
1. Oturum	14. Kasım 2022 Pazartesi	Deniz ekosistemi, denizel ekosistemin korunması ve sürdürülebilirliği için önemli bir rol oynuyor. Deniz ekosisteminin korunması ve sürdürülebilirliği için önemli bir rol oynuyor. Deniz ekosisteminin korunması ve sürdürülebilirliği için önemli bir rol oynuyor.	Prof. Dr. Özlem ÖZDEMİR Akademia VIZOS/IOI Prof. Dr. Barış A. GÖK

TÜRK DENİZ ARAŞTIRMALARI VAKFI

Ocean Academy

Türkiye'de Denizel Ekosistemin Korunması ve Sürdürülebilirliği İçin Deniz Okuryazarlığı Kursu

International Ocean Institute (IOI) ve Türk Deniz Araştırmaları Vakfı (TUDAV) işbirliğiyle gerçekleştirilen bu kurs Türkiye'de denizel ekosistemin korunması ve sürdürülebilirliği için Deniz Okuryazarlığı Kursu'na başlamıştır.

tudav.org

Önemli Noktalar

Kurs İçeriği:
Denizel ekosistemin korunması ve sürdürülebilirliği için önemli bir rol oynuyor. Deniz ekosisteminin korunması ve sürdürülebilirliği için önemli bir rol oynuyor. Deniz ekosisteminin korunması ve sürdürülebilirliği için önemli bir rol oynuyor.

Önemli Noktalar:
Denizel ekosistemin korunması ve sürdürülebilirliği için önemli bir rol oynuyor. Deniz ekosisteminin korunması ve sürdürülebilirliği için önemli bir rol oynuyor. Deniz ekosisteminin korunması ve sürdürülebilirliği için önemli bir rol oynuyor.

TÜRK DENİZ ARAŞTIRMALARI VAKFI



DOLPHIN MONITORING AND MUCILAGE SURVEYS

Our Foundation organized a total of 15 dolphin and mucilage monitoring surveys periodically throughout the year.



ACTIVE PROJECTS



Black Sea Watch

The aims of the project are to raise public awareness about the importance of Black Sea biodiversity and to ensure public participation in data collection for biodiversity in the Black Sea.



Ya Yakarsa

It is a study initiated by our Foundation in order to understand and learn about the abnormal jellyfish increases on the coasts of our country and their damaging effects, to bring the issue to a scientific level academically and to guide decision-makers.



Gökçeada Underwater Marine Park

Gökçeada Underwater Marine Park was established in 1999 with the initiatives of TUDAV on the 1 mile wide coastline between Yıldızkoy and Kuzulimanı. Fishing, diving and other tourism activities are prohibited in the park throughout the year and the area is under protection. As a result of the researches carried out in the area declared as a marine park, it has been determined that fish species and numbers have increased, sea creatures such as insects and lobsters, which were not seen before, have started to be seen, and dolphins and Mediterranean monk seals have revisited the region.



Passive Acoustic Monitoring

With the passive acoustic monitoring method, which has been widely used in monitoring cetacean species in recent years, the movements of cetacean species in the Istanbul Strait have been monitored continuously for 24 hours since 2009 with the support of the Japanese National Fisheries Research Institute and in cooperation with Istanbul University Faculty of Aquatic Sciences.



BlackCeTrends

The project will collect acoustic data to understand where cetaceans, especially Black Sea muturs (*Phocoena phocoena relicta*), are found and the collected data will be downloaded periodically, approximately every 1 to 4 months, and the results will be processed by a specialised software. These acoustic data will complement the visual observations and serve the conservation of these animals for the Black Sea ecosystem.



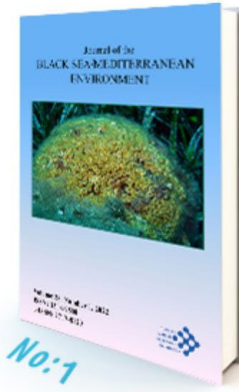
BRIDGE-BS

The Black Sea ecosystem is increasingly suffering from the negative effects of various anthropogenic stressors such as eutrophication, hypoxia, overfishing and the introduction of alien species. The BRIDGE-BS project will assess the Black Sea's ecosystem services and their resilience to such anthropogenic stressors. It will map, monitor and model ecosystem services and their responses to stressors to support the development of a sustainable and climate-neutral blue economy in the region.

PUBLICATIONS



**Journal of The Black Sea / Mediterranean Environment,
Vol. 28, No. 1, 2, 3**



Proceedings of the Marmara Sea 2022 Symposium

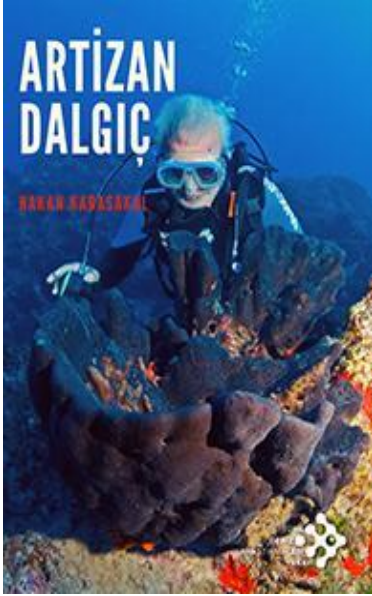


This is the book of proceedings of the Marmara Sea 2022 Symposium held on 8-9 January 2022. During the Symposium, which we organised with the main sponsorship of Türkiye İş Bank, current and vital issues related to the Marmara Sea were discussed with the contribution of 189 scientists and experts from 56 institutions with 71 papers. The book consisting of papers in Turkish consists of 475 pages.

Editors: Bayram ÖZTÜRK, Halim Aytakin ERGÜL, Ahmet Cevdet YALÇINER, Hüseyin ÖZTÜRK, Barış SALİHOĞLU



Artisan Diver



Artisan Diver is a vocational adventure that tells the story of collector diving, whose roots date back to the dawn of civilisation, and blends academic language with sailor's conversation. In Artisan Diver, Hakan KABASAKAL describes this challenging and yet epic profession, the 'profession of the brave' as he calls it, with a blend of his own experiences, scientific evidence, ecological concerns and a love for the sea. Whenever we talk about our seas, which is now called 'Blue Homeland' for us, there is a voice from every head and this confusion often does not come to a conclusion. Perhaps the main reason for this situation is that the experts are not given the opportunity to speak or what they say is ignored. From this point of view, Artisan Diver can be considered as a source that does not content itself with explaining an important branch of profession in

our country, but proposes solutions to the problems from a point of view directly from the profession. We wish you enjoyable and safe diving among the pages of Artisan Diver.

BROCHURES



Istanbul Strait Marine Biodiversity Under Threat

İSTANBUL BOĞAZI DENİZEL BİYOÇEŞİTLİLİĞİ TEHDİT ALTINDA!

Mitolojide adı Bosporos olan İstanbul Boğazı, yaklaşık 10.000 yıl öncesinde bir akarsu yatağıydı. Kırsal ölçekte buzullara erimesi ve deniz seviyesinin yükselmesiyle denizler Akdeniz olan Çanakkale ve İstanbul Boğazı üzerinden Karadeniz ile birleşti. İstanbul Boğazı ve Çanakkale Boğazı Türk Boğazları olarak bilinir. Türk Boğazları Sistemi ise Çanakkale Boğazı, Marmara Denizi ve İstanbul Boğazı'na kapsamaktadır.

Türk Boğazları bölgesi uluslararası deniz trafiği anlamında bir iç su yolu ve TÜRK karasularında bulunur. Türk Boğazları'nda gemilerin geçiş serbestisi hakkı vardır. Bu hak 1936 yılında imzalanan Montrö Sözleşmesi ile garanti altına alınmıştır. Serbest geçiş hakkı aynı zamanda zararsız geçiş yapma yükümlülüğünü de kapsar. İstanbul Boğazı geçiş akvizielleri sahiptir. Üst akıntı Marmaraya, alt akıntı Karadeniz'e doğrudur.

TEHDİTLER

- YOĞUN DENİZ TRAFİĞİ
- GEMİ KAZALARI
- DENİZ KİRLİLİĞİ
- GÜRÜLTÜ KİRLİLİĞİ (ÖRNEĞİN: SÜRAT TEKNELERİ)
- YABANCI VE İSTİLAÇI TÜRLER
- KARA KÖKENLİ KİRLİLİK
- AŞIRI VE KAÇAK AVÇILIK (ÖRNEĞİN: MİDYE AVÇILIĞI BENİK EKOSİSTEMİ TEHDİT ETMEKTEDİR.)
- İKLİM BEOĞUŞLULUĞU
- KIYI TAHRİBATI

İstanbul Boğazı, sahip olduğu coğrafi konumu ve ekolojik özellikleri sebebiyle, Karadeniz ve Akdeniz biyolojisi için biyolojik koridor, bariyer ve iklimlendirme görevi yapar. Biyolojik çeşitlilik açısından denizi ve zengin bir bölgedir. Boğazın kirlenmesi, Karadeniz, Marmara ve Ege Denizi'ne de kirlenmesi demektir.

Yoğun deniz trafiği deniz kazaları riskini artırmaktadır. 1979'daki tanker kazasında yaklaşık 64.000 ton petrol denize taşanmıştır. 1984'de İstanbul Boğazı Karadeniz geçişi, NASSIA tankeri kazası yaşanmış ve 20.000 ton petrol denize yayılmıştır.

Istanbul Boğazi'na, gemilerin balast sularıyla, karınlarına yapılarak ya da Süveyş Kanalı yoluyla yabancı türler girmektedir. **Rapana venosa** ve **Mnemiopsis leidyi** bunlara örneklerdir. Yabancı ve istilacı türler biyoçeşitlilik için büyük bir tehdit oluşturmaktadır. İklim değişikliği ve deniz suyu sıcaklığının artışı yabancı türlerin girişini kolaylaştırmaktadır.

Yabancı türler:
 - **Palaemonetes (Yelkovan)**
 - **Zaprotilla sp.**
 - **Mnemiopsis leidyi**

Ege Denizi'nden çıkan birçok balık türü ilkbaharda yumurtlamak için Karadeniz'e geçerler. Sonbaharda ise tekrar Ege Denizi'ne geri dönerler. Boğazlar yoluyla sadece balıklar değil, yunuslar ve kuşlar da göçlerini gerçekleştirirler.

Yabancı türler:
 - **Yunuslar (Tuzak)**
 - **Yunuslar (Tuzak)**

TEDBİR ÖNERİLERİ

Istanbul Boğazi'nda balıkçılık alanları yeniden düzenlenmelidir. Gemilerin Marmara'ya geçerken, Çanakkale ve Karadeniz'de algında hassas ve özel bir ekosisteme giriş yapıldığına bilmesi ve dikkatli olması önermektedir. Bu konuda gemi acentalarının da izbirliği beklenmektedir. Kazanım önerileri için Türk Boğazları Gemi Trafik Hizmetleri Merkez'in tavsiyelerine ve talimatlarına uyarak kıtaz kapta alınması riski azaltacaktır. Teknelerin hızlarını azaltması, hava fişek atılması ve boğazda kaçak balıkçılığın durdurulması gerekmektedir.

- Yerli ve yabancı gemilerin MARPOL 73/78 sözleşme kurallarına harfiyen uymaları gerekmektedir. Ayrıca bu konuda Boğaz'da ilgili kurumların denetimlerini artırmaları önermektedir.
- Yasa dışı ve kural dışı balıkçılığı yetkililere bildiretin.
- Türk Boğazlarındaki gemilerin emniyetli seyretme süratini en fazla 10 deniz milidir. Özellikle sürat teknelerinin hız kuralına uymaları, yunus ve diğer canlıların trafikten etkilenmesinin önüne geçmektedir.
- Deniz çöpleri (özellikle plastikler) için ilgili kurumların daha fazla çaba sarf etmesi gerekmektedir.
- Ormandan gelen yabancı türler için düzenli izleme çalışmaları yapılmalıdır.
- İstanbul Boğazi dışında, Karadeniz'de özel duyarlı deniz alanları için çalışmalar başlanmalıdır.
- Karalardan Boğazi'a atılmadan atık verilmemeli, atılma tesisleri yatırımları tamamlanmalıdır.

Destek ve yardımlarınız için teşekkür ederiz.

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TÜRK DENİZ ARAŞTIRMALARI VAKFI



There's Another Istanbul Strait!

BAŞKA BİR İSTANBUL BOĞAZI DAHA VAR!

İSTANBUL BOĞAZI SADECE DENİZ ULAŞIMI VE DENİZ TİCARETİ YAPILAN BİR YER DEĞİLDİR.

Boğaz sadece gemilerin, tankterlerin, kosterilerin geçiş yeri değildir. Aynı zamanda turizm ve balıkçılık gibi insan faaliyetlerine de ev sahipliği yapmaktadır. Ayrıca Boğaz, yalların, teknelerin, sandalların da demirlediği bir alandır.

Özellikle yazın bu tekneler deniz çayırlarının bulunduğu yerlere demirmek ve deniz dibinde yaşayan birçok canlıların yaşam alanlarını tahrip etmektedir. Boğaz'da yaşayan deniz çayırları, Zoofera marina koruma altındadır. Bu çayırlar oksijen üretliği ve atmosferdeki karbondioksit miktarını azaltarak iklim değişikliğine karşı bizi koruduğu bilinmektedir.

Deniz çayırlarını tahrip eden bir çipso

Deniz ortamında kirlenmeyi gösteren (plastik) atıklar

Deniz çayırlarının yaşaması için Boğaz'da özel bir mapa ve şamandıra sistemine geçilmesi önermektedir. Ayrıca Boğaz'a bırakılan atılmamış atık sular kirliliğe neden olmakta ve deniz yaşamını olumsuz etkiler. Gürültü gibi diğer kirlilik unsurları da Boğaz'daki deniz yaşamını tehdit etmektedir.

BOĞAZIN YUNUSLARI

Mutuz (*Mesoplous leucon*)

Istanbul Boğazi'nde tirtak, afalina ve mutuz olmak üzere üç setase türü yaşamaktadır. Tesadüfî ağı yakalanma, kirlilik ve gürültü gibi çeşitli tehditler altındadırlar. Bu canlıları korumak için, dağılımlarını ve habitat kullanımlarını bilmek önemlidir. TÜDAV, İstanbul Boğazi'ndeki yunus popülasyonlarını izlemek için Boğaz'da düzenli araştırma sürveyleri yapmaktadır. Özellikle afalina türüne ait bireylerin belirlenmesi için sırt yüzgeçlerinin fotoğrafları çekilmekte ve kataloglanmaktadır.

BOĞAZIN KUŞLARI

Yunus (Yunus) (Yunus)

Istanbul Boğazi deniz canlılarının yanında, mevsimsel kuş göçleri için de önemli bir biyolojik koridördür. İlkbaharda ve sonbaharda göçmen kuşlar İstanbul üzerinden geçmektedir. TÜDAV, Marmara Denizi ve Karadeniz arasında Boğazi üzerinden uçan ve yüzlerce sayıya ulaşan yelkovan kuşlarının da gözlemlerini yapmaktadır.

Destek ve yardımlarınız için teşekkür ederiz.

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TÜRK DENİZ ARAŞTIRMALARI VAKFI

VIDEOS

- ❖ The Beginning of Blue Economy in Türkiye/ Introduction to Aquaculture 1988
<https://www.youtube.com/watch?v=3R86FIhrVw8>
- ❖ Mediterranean Monk Seals of Gökçeada Island
https://www.youtube.com/watch?v=oNF6_OUfLdc
- ❖ ANEMONE Project - TUDAV Cetacean Surveys in the Black Sea in 2019 and 2021
<https://www.youtube.com/watch?v=guKM309hHRw>
- ❖ Seagrasses Must Be Protected
<https://www.youtube.com/watch?v=cOJi5pCowV4>
- ❖ The Centre of Traditional Swordfish Fishing
<https://www.youtube.com/watch?v=JejrNJ3eYlg>
- ❖ Cladocora caespitosa
<https://www.youtube.com/watch?v=wAYfoMvCOUQ&t=103s>

PRESS RELEASES

- ❖ Jellyfish Warning for the Mediterranean (12.03.2022)
- ❖ Unusual Dolphin Deaths in the Black Sea Coasts (26.03.2022)
- ❖ Another Mediterranean Monk Seal Shot Dead (02.04.2022)
- ❖ War in the Black Sea and its Effects on the Marine Environment (13.04.2022)
- ❖ Oil Pollution in Antalya Coasts (05.06.2022)
- ❖ More Alien Species Expected to Enter the Mediterranean (29.06.2022)
- ❖ 1 July Maritime and Cabotage Day Important Call (01.07.2022)
- ❖ Names of Submarine Formations Determined (10.09.2022)
- ❖ Newly Protected Species (12.09.2022)
- ❖ Another Endangered and Protected Slingshot Shark Killed (19.09.2022)
- ❖ The Istanbul Strait is a migration route, that belongs to fish, dolphins, and birds more than us (05.11.2022)
- ❖ Workshop on Maritime Security in the Black Sea in the context of the Russia-Ukraine War (01.12.2022)

ENGLISH PRESS RELEASES

- ❖ A War in the Black Sea and its Effects on Marine Environment (13.04.2022)