



TIMMOD
**Promoting Technology Innovation in Environmental Monitoring and Modelling
for Assessment of Fish Stock and Non-fish Resources**

2nd Thematic Transboundary Meeting (TTM)

The Thematic Transboundary Meetings (TTMs) are organized within the TIMMOD Project Network in order to raise awareness of researchers, surveyors, and decision makers, and improve regional cooperation of their institutions on joint application of innovative systems in marine environment monitoring services, and cross-border data exchange. This way an essential output of the TIMMOD project is provided, contributing to BSB Program result 2.1 "Improved availability of cross-border compatible environmental monitoring data and information".

The 2nd TTM will be hosted by AUTH (Greece). Due to movement and travel restrictions on account of the COVID-19 pandemic, it will be organized as an online meeting, hosted in MS TEAMS platform. Each partner shall involve some key stakeholders, who shall attend the meeting/discussion as individual participants. The official language of the MS TEAMS online event in English. Each Project Partner (PP) is responsible for full or partial translations in their national languages per non-English-speaking attendees.

The 2nd TTM will include presentations and discussion on:

- a) the completed inventory on innovative environmental monitoring technologies for the assessment of fish stock and non-fish species,*
- b) the draft study on transboundary coordination mechanisms, available organizational and human resources in the study area, and their relevance to the planned technological upgrade.*
- c) the ongoing implementation of activities referring to novel Information/Communication Technology (ICT) tools for numerical modelling, data handling, and GIS technologies for dissemination to end-users.*

The main objectives of TTM-2 are:

- to assist local and national authorities and decision makers to understand and promote advanced technologies (while implementing obligations under relevant Conventions and Agreements),*
- to support cooperation in R&D innovation about data sharing and cross-border information exchange systems on environmental issues within the Black Sea Basin (BSB).*

TTM-2 will include participation of experts from all PP countries, as well as invited external experts (outside the project's consortium). Representatives of local stakeholders will be invited, including academia, monitoring performers, environmental agencies, local and national authorities, etc. A "seminar" part of the TTM-2 event will include presentations by selected involved parties, decision makers, and external experts, demonstrating their experiences on the TTM subjects. This way, TIMMOD PPS will assist in better understanding and capacity building for decision makers, public authorities, and monitoring performers upon the role of advanced technologies in implementing MSFD and DCF programs in the Black Sea area.

AUTH (PP3) will coordinate and consolidate information provided by PPs, external experts, and stakeholders.

Common borders. Common solutions.



2nd TTM

Virtual (online) Meeting and Seminar

Location: MS Teams

Virtual Host: AUTH

Dates: **Monday 19 April 2021**

Tuesday 20 April 2021

Time: **13:00-15:00 EET**

10:00-14:15 EET

AGENDA

Monday 19 April 2021

| Timeframe | Day 1: Presentation and discussion on completed and ongoing reports | All TIMMOD PPs |
|-------------|--|--|
| 13:00-15:00 | Thematic | Presenter/Moderator |
| 13:00-13:05 | Welcome and Introduction: Overview on TIMMOD Project implementation | Th. Karambas (AUTH) |
| 13:05-13:15 | Introductory Overview on Activity T1.2 and Deliverable report DT1.2.1 | Valeri Penchev (BDCA) |
| 13:15-13:30 | Inventory of current state technologic innovations in marine environmental monitoring and assessment of fish stock and non-fishing recourses, with emphasis on the Black Sea. (Completed DT1.2.1) <i>Focus: Recent updates - new technologies - apps and models and GIS on TIMMOD case studies</i> | Philip Penchev (IFR) |
| 13:30-13:40 | Individual reports on Inventory of Technology Innovations by Partners & by Countries (Completed DT1.2.1) | Vesselina Mihneva (IFR) Shirin Shukrieva (BDCA) |
| 13:40-14:00 | Transboundary coordination mechanisms, available organizational and human resources in the Black Sea (Completed DT4.1.1) | Elina Bakradze (NEA) |
| 14:00-14:10 | <i>Coffee Break</i> | |
| 14:10-14:20 | Introductory Overview on Activities T2.1, T2.2, T2.3 and Deliverable reports DT2.1.1, DT2.2.1, DT2.3.1 | Christos Makris (AUTH) |
| 14:20-14:40 | Novel ICT tools for numerical modelling, data handling, and GIS technologies for dissemination of oceanographic forecasts to end-users | Vasilis Baltikas (AUTH) |
| 14:40-14:50 | Conclusions and Recommendations of A.T1, A.T4 | Valeri Penchev (BDCA) Christos Makris (AUTH) |

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| 14:50-15:00 | Roundtable Discussion | Th. Karambas (ATh) All PPs + Stakeholders |
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MS Teams 2nd TTM - DAY 1 Link:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZGQxZDYxM2MtOGExOS00NmJhLWI0M2UtY2E1ZTU2NDU4ODQ0%40thread.v2/0?context=%7b%22Tid%22%3a%221578bffb-2c14-4d1f-ab44-5b6989b0c66a%22%2c%22Oid%22%3a%22e0173e67-6cd8-4304-adcb-d264a788a469%22%7d

AGENDA

20 April 2021

| | | |
|--------------------|---|---|
| Timeframe | Day 2: Seminar on Technological Innovations in Marine Environmental Quality Forecasting and Dissemination Techniques related to the Assessment of Fish-stock and Non-fish Resources | Participants: <i>TIMMOD PPs</i> <i>Stakeholders</i> <i>External Experts</i> |
| 10:00-14:15 | Thematic | Presenter/Moderator |
| 10:00-10:05 | Welcome and Introduction: Overview of TIMMOD Project perspectives | Prof Theofanis Karambas (ATh) |

| TIMMOD Activities Session | | |
|---------------------------|---|----------------------------|
| 10:05-10:20 | On novel techniques of hydrodynamic modelling, automated forecasts, and disseminating oceanographic predictions to end-users | Dr Christos Makris (ATh) |
| 10:20-10:40 | On data processing and management methods with web-GIS tools: recommendations for a common data platform relevant to fish stock and non-fishing species | Dr Philip Penchev (IFR) |
| 10:40-11:00 | On setting up an advanced numerical model for 3-D hydrodynamic circulation in regional (continental shelf) scales: focus on the Black Sea | Mr Vassilis Baltikas (ATh) |

| External Experts Session | | |
|--------------------------|--|--|
| 11:00-11:15 | The MARLITER Project: Improved online public access to environmental monitoring data and data tools for the Black Sea Basin supporting cooperation in the reduction of marine litter (CBC-BSB) | <i>External Expert</i> Prof Antonios Mazaris (ATh-Bio) |
| 11:15-11:30 | Operational Oceanographic Forecasts in the Mediterranean Sea, Aegean Archipelago, and Thermaikos Gulf | <i>External Expert</i> Prof Yannis Krestenitis (ATh-CivilEng) |

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|-------------|---|---|
| 11:30-11:45 | Applications of ROUVs in underwater exploration and fisheries technology: experiences from Thermaikos Gulf | <i>External Expert</i> Prof Georgios Minos (IUG-Bio/Fish) |
| 11:45-12:00 | MSc program on Smart Maritime & Surveying Systems within the <i>Surveying & MARiTime internet of things EducAtion (SMARTSEA)</i> project (Erasmus+) | <i>External Expert</i> Assoc Prof Theodoros Kosmanis (IUG-AutoEng) |
| 12:00-12:15 | <i>Coffee Break</i> | |

| External Experts and Stakeholders Session | | |
|--|---|--|
| 12:15-12:30 | The influence of Black Sea waters on the Mediterranean Sea: advanced 3-D numerical modelling in the northern Aegean Sea | <i>External Expert</i> Dr Yannis Androulidakis (AUTH-Ocean) |
| 12:30-12:45 | Operational oil spill modelling in the Mediterranean and Black Sea Basins | <i>External Expert</i> Assoc Prof Antigoni Zafeirakou (AUTH-CivEng) |
| 12:45-13:05 | Environmentally oriented research activities, for resilience enhancement, in the Municipality of Thessaloniki (Greece) | <i>Stakeholder</i> Dr Georgios Papastergios Mrs Stella Psaropoulou (Municipality of Thessaloniki, Dpt. of Operational Planning & Development Programmes Monitoring) |
| 13:05-13:25 | Ocean Observation for the EU Green Deal <i>EMODnet and other related activities from DG MARE and the EC</i> | <i>Stakeholder</i> Dr Zoi Konstantinou (EU Policy Officer, DG Mare) |
| 13:25-13:45 | The Sustainable Development Solutions Network (SDSN) - Black Sea Regional Network | <i>Stakeholder</i> Prof Nicolaos Theodossiou (Chair of SDSN Black Sea) |

| Closing Session | | |
|------------------------|--|--------------------------|
| 13:45-14:05 | Round Table - Discussion with Stakeholders | Prof Th. Karambas (AUTH) |
| 14:05-14:15 | Sum-up and closing | Dr Elitsa Petrova (IFR) |

IUG: International University of Greece
DG MARE: EU Commission's Directorate-General for Maritime Affairs and Fisheries

MS Teams 2nd TTM - DAY 2 SEMINAR Link:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZjhjMTgxMzMtYTYzYS00ZjU5LWE4YmQtNjM1NWQwNTI3NjMx%40thread.v2/0?context=%7b%22Tid%22%3a%221578bffb-2c14-4d1f-ab44-5b6989b0c66a%22%2c%22Oid%22%3a%22e0173e67-6cd8-4304-adcb-d264a788a469%22%7d

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Draft documents for discussions during 2nd TTM:

- 2 Consolidated Reports: “DT1.2.1 - Inventory on Technology Innovations in marine environmental monitoring and assessment of fish stock and non-fishing recourses” and “DT4.1.1 - Study on transboundary coordination mechanisms, available organizational and human resources in the area, and their relevance to the planned technological upgrade. Identifying priority issues, set in accordance with the MSFD and DCF”.
- All ppt presentations of the Seminar.

All documents will be uploaded at TIMMOD document section in MS TEAMS at least 2 days before the event for discussion.