

## Regional Database for the Mediterranean and Black Seas "Developing a fisheries information system for the Med&BS"

**Progress Work** 

2024 Liaison Meeting, September 24-25



#### MARE/2020/08 - SI2.839444

#### DEVELOPMENT OF THE REGIONAL DATABASE FOR THE MEDITERRANEAN & BLACK SEAS (Med&BS RDBFIS)

This project has financed under the European Maritime and Fisheries Fund (EMFF) (period: 01/01/2021 – 28/02/2023)













#### CINEA/EMFAF/2021/3.1.2/03/SC04/SI2.881222

Specific Contract 2021/3.1.2/03/SC04

HOSTING, MAINTENANCE AND FURTHER DEVELOPMENT OF THE REGIONAL DATABASE FOR THE

MEDITERRANEAN AND BLACK SEAS

(period: 01/04/2023 - 31/03/2025)

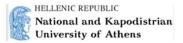
























#### RDBFIS progress work -> populate the system with data

#### Aggregated data

- Med&BS
- FDI (Tables A, B, G, H, I, J)
- AER
- GFCM/DCRF

#### **MEDITS**

TA, TB, TC

Detailed biological & landings data

#### RDBFIS progress work -> MEDIAS integration

1. MEDIAS database structure Acoustics, Pelagic trawl, CTDs



- 2. Integration with RDBFIS
- 3. Validation scheme (acoustics, pelagic trawl)
- 4. Consistency check (R)
- **5. Processing (SQL)** *Abundance, Biomass, Abundance-Biomass*
- 6. Eggs & Larvae database structure

MEDIAS datacall is running, a workshop is arranged at the end of October

#### RDBFIS progress work -> MEDITS survey

Updated versions

MEDITS

RoME

RoMEBS

**BioIndex** integration

#### RDBFIS progress work -> RDBqc & RDBprocessing updates

In the framework of **Qualitrain** and RDBFIS, improvements were made on the R packages supporting the data quality and processing. Inside the RDBFIS, the packages are replaced the old ones

#### RDBFIS progress work -> AER integration

- Perform syntax and consistency checks before submitting data to the JRC. The aim is to decrease discrepancies between the AER and FDI datacalls (cross checking between AER & FDI is a goal for the project)
- Specific economic performance indicators for STECF EWG purposes is under construction (NISEA)



#### RDBFIS progress work -> Estimating the spatial FE & landings for SSF (FDI Tables H, I)

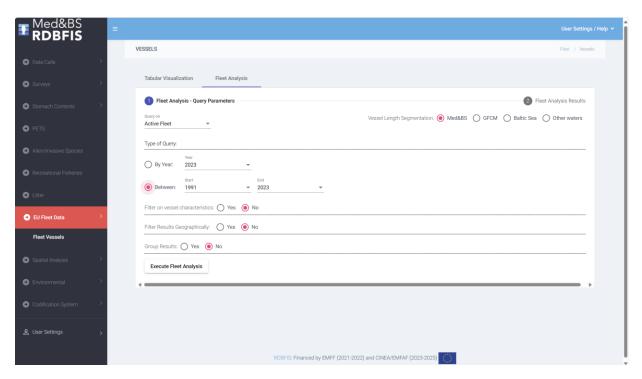
This innovative R package is designed to estimate the spatial effort, weight, and value of landings in small-scale fisheries (SSF) for data-limited scenarios, specifically for vessels under 12 meters in length. The tool utilizes a Multi-Criteria Decision Analysis (MCDA) approach and includes scripts and demos that can be run locally to facilitate key procedures. These procedures include preparing environmental and anthropogenic data, as well as data from the EU fleet register (or more detailed sources if available), which are used to estimate a proxy for fishing effort.

Additionally, part of this tool will be integrated into RDBFIS, facilitating the estimation of fishing effort and landings in the format of Tables H and I. The package enables users to apply the MCDA-derived proxy for fishing effort, combine it with Tables A and G (as submitted in the data call), integrate results from species distribution models, and estimate spatial effort, landings, and value by fishing rectangle or at finer resolutions. The tool also generates maps to visualize these estimations.

#### RDBFIS progress work -> EU fleet analysis

Fleet analysis: an open access dynamic tool has developed to illustrate the evolution of the fleet dynamics in Europe; potential links with the landings, discards and value (FDI Table A);

Data from the professional fishing fleet, spanning the period from 1991 to 2023, was downloaded from the official EU Fleet Register portal. GIS techniques were employed to spatially join the fishing ports with various geographical entities, including NUTS2 and NUTS3, FDI subregions, Geographical areas (GFCM, ICES). The fishing ports were match to LOCODE from the CIRCAMB Master Data Register. The accuracy of the fishing port locations was validated using information available from the IFREMER Sextant portal. Reports can be generated based on user-defined queries about active or decommissioned fishing vessels



# RDBFIS progress work -> quality checks on FDI spatial data, Table H & I -> Stomach contents data entry form -> how RDBFIS can contribute to MSFD

quality checks on FDI spatial data (Table H & I): integrated, optional to run *Maurizio, Maciej, Maksims* 

#### Stomach contents

- Med&BS and ICES structures were adopted
- User friendly data entry form

#### RDBFIS → MSFD

 Predefined queries to mine data from RDBFIS and deliver to MSFD experts

D1-Biodiversity

D2-Non-Indigenous Species

D3-Commercially-exploited fish

and shellfish

D4-Food weds

D6-Seabed integrity

D10-Marine Litter

The activity has been completed in terms of gathering information from MSFD experts

#### RDBFIS: 2024 RCG Med&BS

In the 2024 Med&BS meeting, the RCG set the following priority for the servicing of data calls through RDBFIS:

- 1. High: Med & BS data call (obligatory from 2025);
- 2. Medium: FDI (optional for 2025);
- 3. Low: AER, GFCM (no timeline defined).

The RDBFIS coordinator will liaise with JRC to explore if / how RDBFIS can transmit data on behalf of the Member States and receive a notification.

Data access: the RCG document is adopted by the RDBFIS

#### RDBFIS -> roadmap

- MEDIAS workshop and datacall;
- Integration of MCDA-SSF package;
- AER consistency checks and processing routines;
- Bilateral meeting for the detailed biological data;
- Bilateral meeting for the statistical system and raising methods applied from the Med&BS MS, workshop;
- Eggs&Larvae database, PETS, recreational fisheries and alien species;
- RDBFIS 2<sup>nd</sup> training (in person, January 2025)
- keep open the channel with ICES and RCG LP
- Optimization of R code



#### CINEA/EMFAF/2021/3.1.2/03/SC04/SI2.881222 Specific Contract 2021/3.1.2/03/SC04

Hosting, maintenance and further development of the Regional Database for the Mediterranean and Black Seas

### We thank you for your attention https://rdbfis.eu/



Significant contribution by

Executive Agency for Fisheries and Aquaculture, Bulgaria (Simona Vasileva NICHEVA)

Ministry of Agriculture, Directorate of Fisheries, Croatia (Ivana VUKOV)

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Maurizio GIBIN, Maciej ADAMOWICZ, Maksims KOVSARS quality (checks on spatial information and mapping for the FDI EWG)