Monitoring the Maltese Trawl Fleet Catches Using the Fisher Self-Sampling Approach

Ministry for Resources and Rural Affairs Għaqda Koperattiva tas-Sajd

Aims of the Case Study

- Enhance the available knowledge on the 25 NM FMZ
- Increase the involvement of fishery stakeholders in the management and control of the FMZ
- Implementation of the first fisher self-sampling regime
- Analysis of the spatio-temporal variation in maturity and length frequency distribution of the species under study to identify nursery and spawning areas

Target crustacean species to be studied



Parkepetenapeustensesis

Target fish species to be studied



Merjuccius merjuccius

Area of the Case Study



Vessels in the Case Study

- At present there are 22 trawlers registered in Malta
- 11 trawlers fish within the 25 NM FMZ
- Trawlers fishing within the 25 NM FMZ are representede by the cooperative Ghaqda Koperattiva tas-Sajd



Data Collection - I

- A workshop will be organised by MRRA to provide the necessary training to the fishers.
- A **2-month pilot phase** will be held before the operational phase. MRRA staff will be sent on board to provide further training to the fishers.
- After the 2-month pilot phase we will enter the 12-month operational phase. During this period the fishers will be carrying out the self-sampling and supplying the recorded data and samples to MRRA.
- Data will be cross-checked for consistency

Data Collection - II

Two different types of data will be collected:

- 1. Data on total catch, equivalent to the logbook data
- 2. Detailed sampling of all hauls carried out during a predetermined monthly fishing trip per vessel.



Data Analysis

- At the end of the operational phase, MRRA will analyse the data and disseminate the results to the participating fishers.
- A second workshop will be conducted in order to provide a platform for a joint discussion of results and propose potential management approaches.

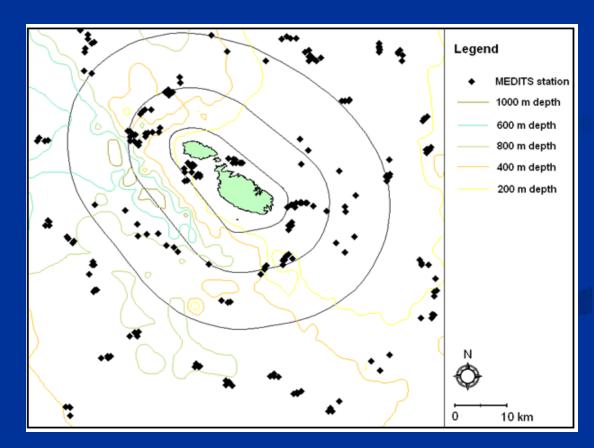
Role of Scientists in the Case Study

Informing the stakeholders of underlying policy frameworks where necessary

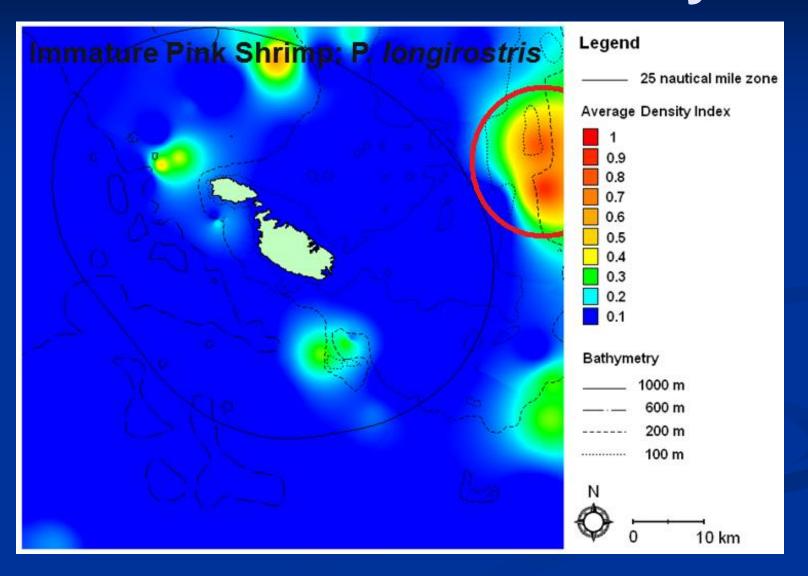
- Data analysis
- Compilation of relevant existing data regarding GSA 15; including both fisheries dependent and fisheries independent data.

MEDITS Trawl Survey

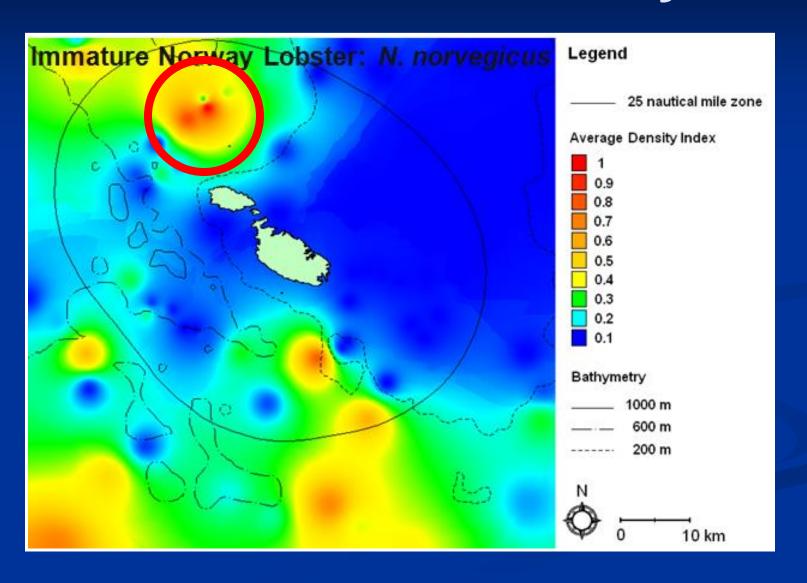
- Carried out annually in GSA 15
- Data is available since 2002
- The density and biomass indices are mapped
- Mature and immature individuals are seperated based on maturity stages to identify spawning and nursery areas



MEDITS Trawl Survey



MEDITS Trawl Survey



Role of Stakeholders in the Case Study

- Provision of traditional knowledge especially in the phase of data analysis
- Feedback on the data collection methodology
- Feedback on reports prior to submission

Expected Outcomes - I

- Enhance the data available for stock assessment purposes.
- Gain insight on the spatio-temporal distribution of mature and immature individuals of the species under study together with the length frequency distribution.
- These results will be analysed to draft a plan for trawling zones managed by closed seasons as to promote the conservation of nursery and spawning areas.
- The results of on-board observations by MRRA staff will be compared with self-sampling by fishers to assess the potential for a long term continuation of the project.

Expected Outcomes - II

It is expected that all parties involved will benefit from this collaborative project:

- Scientists would benefit from fishers' traditional knowledge and the easier access to samples
- **Fishers** would be directly involved in the management process as well as receiving profit from the compensation they will receive for collaborating in this project
- MRRA would benefit with the increased acceptance of future management plans since the fishers will be directly involved in the planning activities

Thank you for your attention!

