

Monitoring and assessing the marine macro-litter on the seafloor: the MEDITS initiative

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THE MEDITS PROJECT

An international bottom trawl survey in the Mediterranean

From 1994.....



Data Collection Regulation/Framework (EU Reg. 199/2008) and more recently the EUMAP program (EU Reg. 1004/2017 and C(2016) 8906

Main aims/targets are to obtain information on:

- demersal and benthic species in terms of distribution abundance indices;
- population and community distribution;
- Iife history traits of key species;
- demographic structure of the target species;
- population and community indicators

...and more recently additional information for Marine Strategy Directive Framework

In the following years the survey was extended also to Slovenia, Croatia, Albania, Malta, Montenegro and Cyprus involving 16 Research Institutes. FAO Regional projects play a support role in some areas



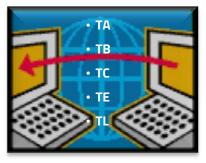


MEDITS METHODOLOGY

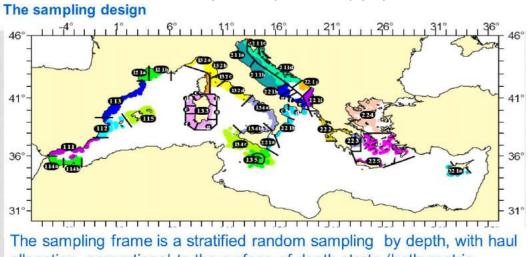
A bottom trawl survey in the Mediterranean, in which all the participants apply

standardized methods using:

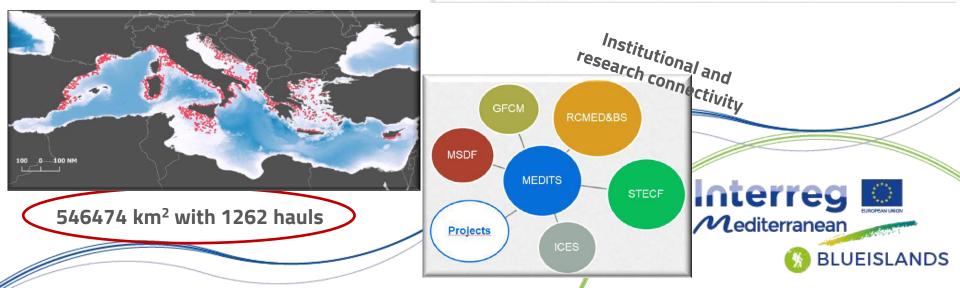
same gear; same sampling scheme; and same protocols for collecting, storing and analysing data.



Data exchange format to exchange data within the group and transmitting to the Member States or to the Official Data Calls

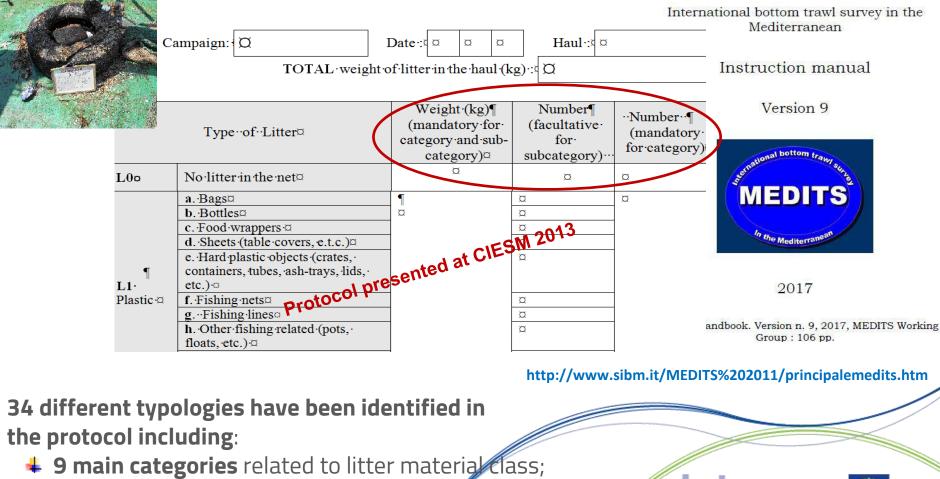


The sampling frame is a stratified random sampling by depth, with hair allocation proportional to the surface of depth strata (bathymetric limits: 10-50m, 51-100, 101-200, 201-500, 501-800) and of the 44 different sub-regions.



The MEDITS survey for monitoring marine macro-litter on the seafloor

In 2013 – A Pilot implementation on a voluntary basis started **<u>Collecting data on litter during MEDITS trawl surveys</u>**



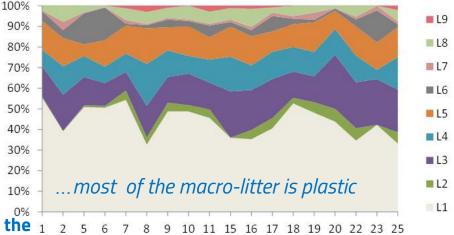
4 27 sub-categories related to source and main litter findings.



Modelling accumulation of macro-litter on the seafloor

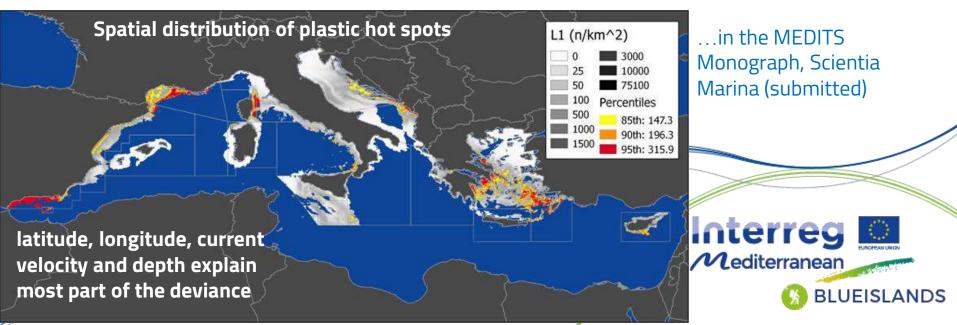
Goals of our study:

- **assess spatial distribution** of macro-litter on the seafloor using standard methods;
 give insight on the main driving factors of macro-litter accumulation and identify hot spots to provide information for
 - implementing mitigation measures.



Spatial distribution of marine macro-litter on the seafloor in the 1 2 5 6 7 8 9 10 11 15 16 17 18 19 20 22 23 25northern Mediterranean Sea: the MEDITS initiativeGSA

M.T. Spedicato, W. Zupa, P. Carbonara, F. Fiorentino, M.C. Follesa, F. Galgani, C. Garcia, A. Jadaud, C. Ioakeimidis, G. Lazarakis, G. Lembo, M. Mandic, P. Maiorano, M. Sartini, F. Serena, A. Cau, A. Esteban, I.Isajlovic, E. Lefkaditou, R. Micallef, I. Thasitis



...monitoring on bottoms off southern countries of Mediterranean would be beneficial to increase our knowledge on the macro-litter distribution and modelling



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