

Activity: WES N-E-MO-2

Training on marine litter monitoring

Monitoring macrolitter on the sea surface and the seafloor: survey protocols & experimental design



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THE WES MONITORING METHODS FOR MARINE MACROLITTER



Methodology for monitoring MACROLITTER on
the sea surface

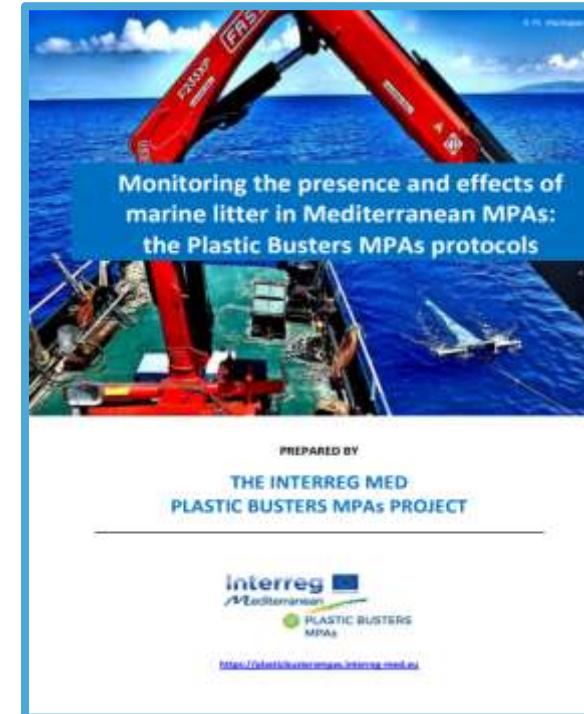


Monitoring MACROLITTER on the seafloor with
visual census

PLASTIC BUSTERS ELEARNING MODULE



Self-paced distance learning course
Plastic Busters MPAs module on how to monitor the presence and effects of MARINE LITTER
<https://envirolearning.net/catalog/info/id:153>



EXPERIMENTAL DESIGN

Who is involved in the monitoring campaigns

The survey sites

The timing of the survey campaigns & the survey protocols



EXPERIMENTAL DESIGN & WHO IS INVOLVED

**Monitoring marine litter on the sea surface with visual census
in collaboration with research institutes & competent authorities**

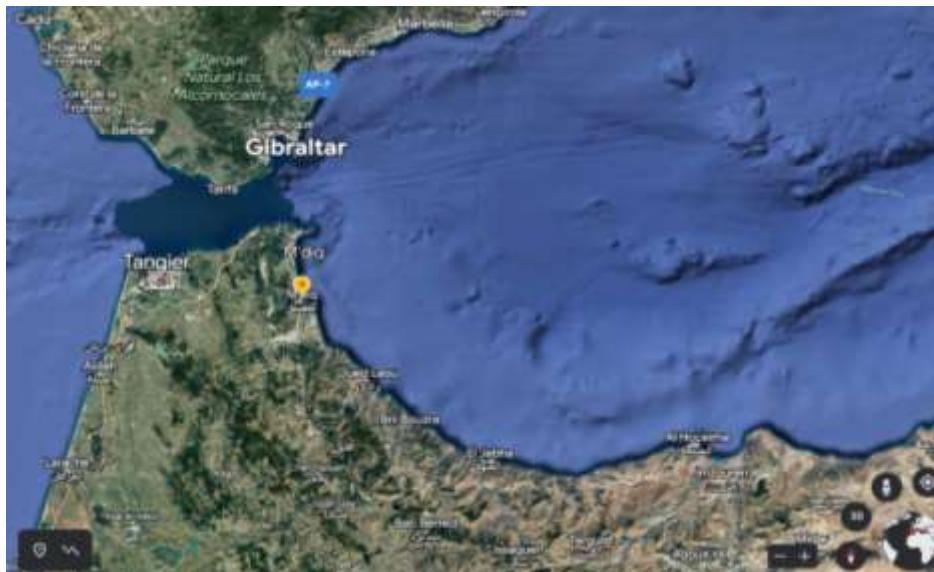
- ✓ Laboratoire National des Etudes et de Surveillance de la Pollution /Département du Développement Durable / Ministère de la Transition Énergétique et du Développement Durable, **Rabat, Maroc.**
- ✓ Laboratoire de Recherche en Géosciences appliqués et marines, Géotechnique et Géorisques (LR3G), Faculté des Sciences, Université Abdelmalek Essaâdi, **Tétouan, Maroc.**

**Monitoring marine litter on the sea floor with visual census by scuba divers
in collaboration with scuba divers, NGOs & research insititutes**

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- ✓ NGO "Campoenes de Fnideq", **Fnideq, Maroc.**

THE STUDY AREAS

Survey area	Survey sites	Location code	Marine matrices surveyed
M'Diq	<ul style="list-style-type: none"> ▶ Mdiq-Port (Ain Chejra) ▶ Mdiq-Plage 	<ul style="list-style-type: none"> ▶ MAMDb1 ▶ MAMDb2 	<ul style="list-style-type: none"> ▶ Seafloor macrolitter surveys
Tamuda Bay	<ul style="list-style-type: none"> ▶ Tamuda Bay 	<ul style="list-style-type: none"> ▶ MAMDf1 ▶ MAMDf2 	<ul style="list-style-type: none"> ▶ Sea surface macrolitter surveys



In the vicinity of Smir river
 Nearby the aquaculture plant, Aqua M'diq
 In the vicinity of M'diq
 3-5 km away from a fishing and recreation port
 10-15 km away from WWD

THE 1st SURVEY CAMPAIGN – FLOATING MACROLITTER



Distance Covered	Start Time	End Time	Duration	ML found
17,400 m	10h55	13h35	3h20	132
29,840 m	10h00	16h43	6h43	276

THE 1st SURVEY CAMPAIGN – SEAFLOOR MACROLITTER



OCTOBER 2022



Location code	Transect length	Transect width	Surface covered	ML found
MAMD _b 1	100	4	400 m ²	66
MAMD _b 2	100	4	400 m ²	19

THE 2nd SURVEY CAMPAIGN

APRIL 2023





Thank you for your attention!

www.wes-med.eu

