



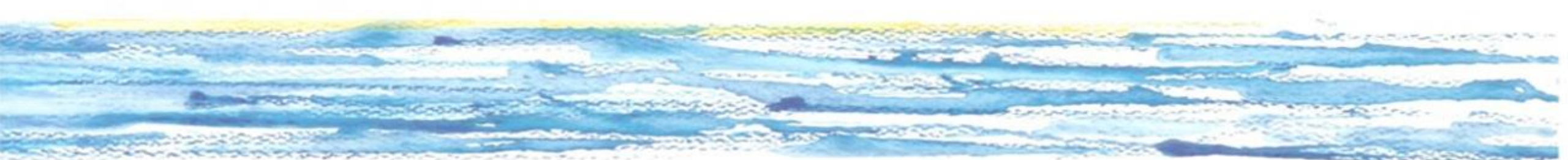
International Workshop

**“MONITORING MARINE LITTER IN ENVIRONMENT AND BIODIVERSITY”**

COMMON and Plastic Busters CAP projects - Manfredonia (Italy), 13th - 14th July 2022

# Sampling starter kit for marine litter monitoring

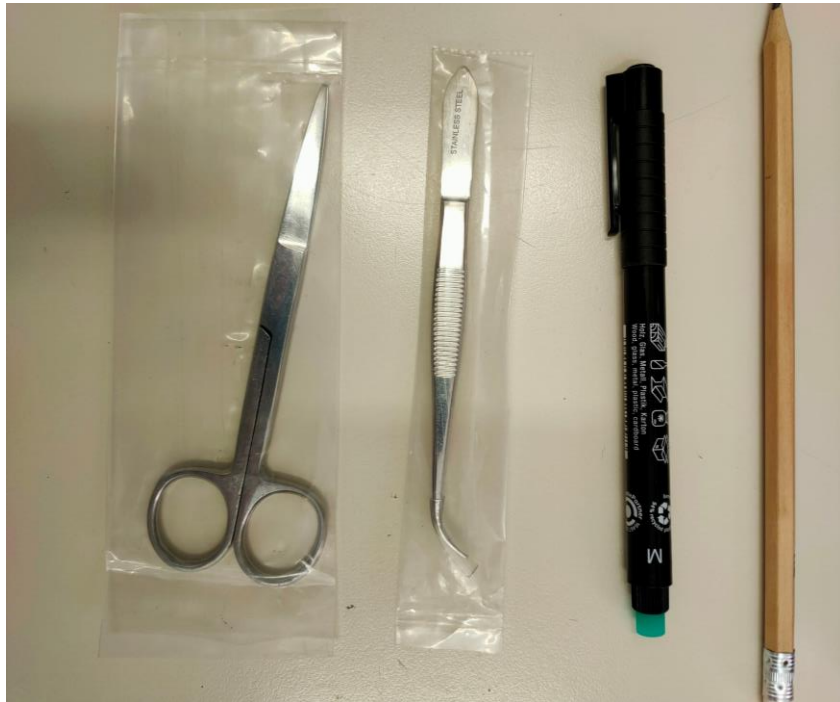
University of Siena - Department of Physical sciences, Earth and Environment







# 1. Dissection and labeling



- PERMANENT MARKER n. 1
- PENCIL n. 1
- GLOVES n. 4
- SURGICAL SCISSOR n. 1
- SURGICAL TWEEZERS n. 1



## 2. MICROCENTRIFUGE TUBE 1.5ml



- 1.5ml MICROCENTRIFUGE TUBE

n. 30

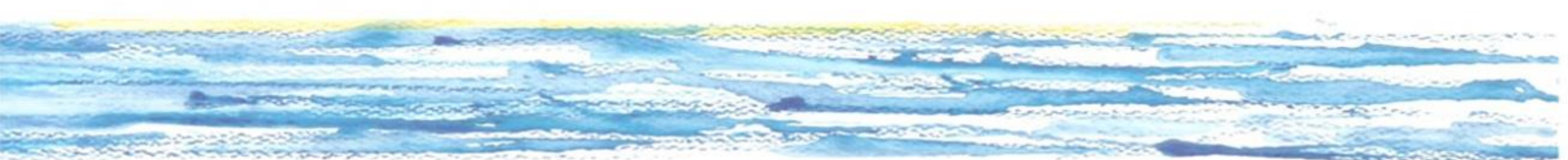


# 3. STERILE DISPOSABLE SYRINGES 10ML



**STERILE DISPOSABLE SYRINGES 10ML**

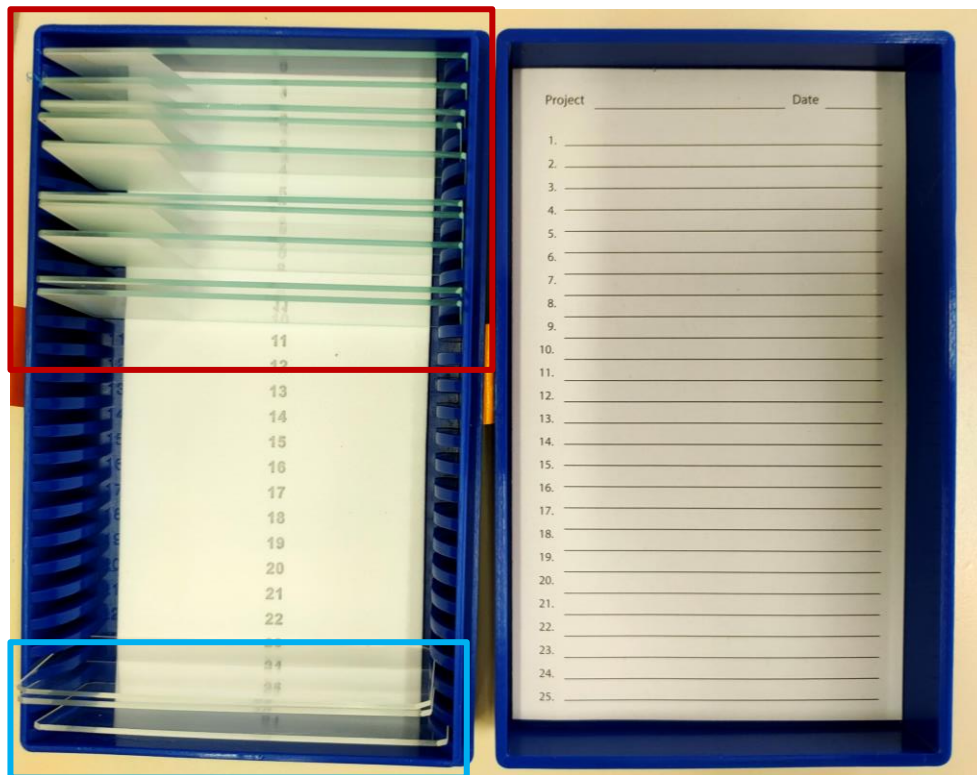
**n. 5**





## 4. MICROSCOPE SLIDE BOX

COMMON Plastic Busters CAP



- MICROSCOPE SLIDE BOX containing:

- Microscope slides SuperFrost

n. 10

- Microscope slides

n. 3

COMMON Plastic Busters CAP

## 5. BIOPSY PUNCH 4mm

BIOPSY PUNCH 4mm

n. 5



## 6. RNA later tubes



**RNA later Tubes**

**n. 5**





# 7. VACUTAINER COLLECTION TUBES



**VACUTAINER COLLECTION TUBES**

**n. 5**



## 8. STERILE FAECES CONTAINER



**STERILE FAECES CONTAINER 60ml**

**n. 15**





# 9. SURGICAL SCALPELS



SURGICAL SCALPELS

n. 5

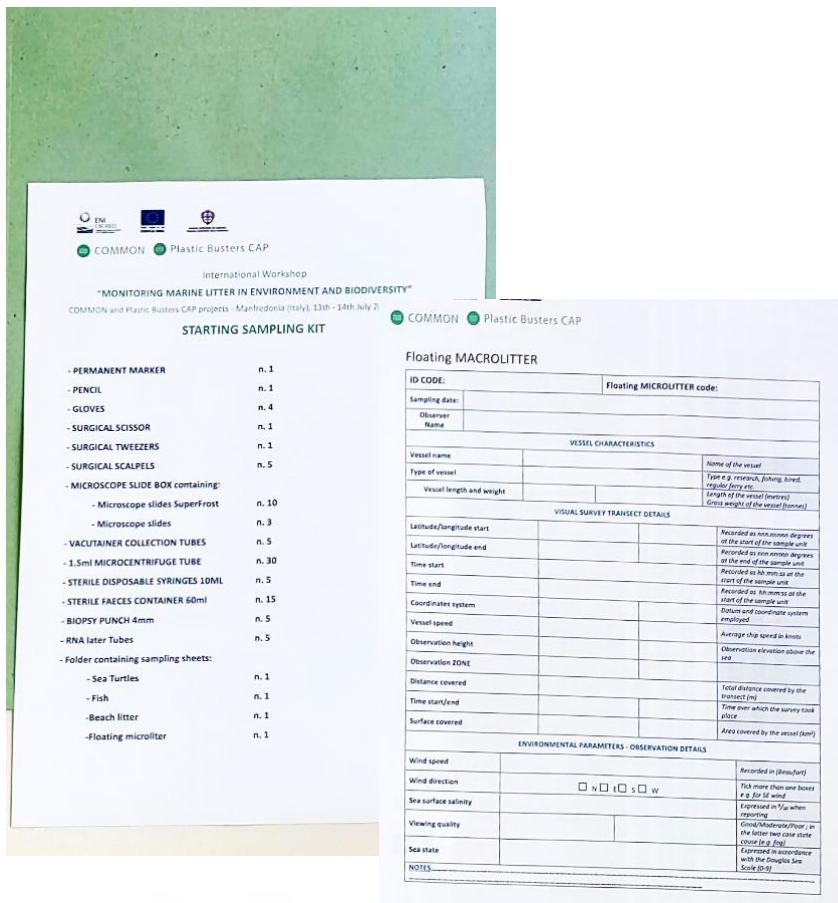




# 10. Sampling sheet

Folder containing sampling sheet:

- Live Sea Turtles n. 1
- Stranded Sea Turtles n. 1
- Fish n. 1
- Beach macro and micro litter n. 1
- Floating macrolitter n. 1
- Floating microlitter n. 1
- Joint list of Marine Macrolitter Items n. 1
- Classification of Marine Litter ingested items n.1



**STARTING SAMPLING KIT**

- PERMANENT MARKER n. 1
- PENCIL n. 1
- GLOVES n. 4
- SURGICAL SCISSOR n. 1
- SURGICAL TWEEZERS n. 1
- SURGICAL SCALPELS n. 5
- MICROSCOPE SLIDE BOX containing:
  - Microscope slides Superfrost n. 10
  - Microscope slides n. 3
- VACUTAINER COLLECTION TUBES n. 5
- 1.5ml MICROCENTRIFUGE TUBE n. 30
- STERILE DISPOSABLE SYRINGES 10ML n. 5
- STERILE FAECES CONTAINER 60ml n. 15
- BIOPSY PUNCH 4mm n. 5
- RNA later Tubes n. 5
- Folder containing sampling sheets:
  - Sea Turtles n. 1
  - Fish n. 1
  - Beach litter n. 1
  - Floating microlitter n. 1

**Floating MACROLITTER**

ID CODE:		Floating MICROLITTER code:	
Sampling date:			
Observer Name:			
<b>VESSEL CHARACTERISTICS</b>			
Vessel name:		Name of the vessel	
Type of vessel:		Type e.g. research, fishing, hired, regular ferry etc.	
Vessel length and weight:		Length of the vessel (metres) Gross weight of the vessel (tonnes)	
<b>VISUAL SURVEY TRAJECT DETAILS</b>			
Latitude/longitude start:		Recorded as six-figure degrees at the start of the sample unit	
Latitude/longitude end:		Recorded as six-figure degrees at the end of the sample unit	
Time start:		Recorded as six minutes at the start of the sample unit	
Time end:		Recorded as six minutes at the start of the sample unit	
Coordinates system:		Recorded as six minutes at the start of the sample unit	
Vessel speed:		Bottom and coordinate system employed	
Observation height:		Average ship speed in knots	
Observation ZONE:		Observation elevation above the sea	
Distance covered:		Total distance covered by the transect (m)	
Time start/end:		Time over which the survey took place	
Surface covered:		Area covered by the vessel (km²)	
<b>ENVIRONMENTAL PARAMETERS - OBSERVATION DETAILS</b>			
Wind speed:		Recorded in (Beaufort)	
Wind direction:		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Sea surface salinity:		Tide more than one boxes e.g. for 34.5	
Viewing quality:		Expressed in V <sub>10</sub> when viewing	
Sea state:		Ground/Underwater/Flour, in the latter two case state score (e.g. 1-5)	
NOTES:			



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Thank you!

