2014 - 2020 Interreg V-A
Italy - Croatia CBC Programme
Call for proposal 2019 Strategic

MARLESS - MARine Litter cross-border awarenESS and innovation actions

Priority Axis: Environment and cultural heritage
Specific objective: Improve the environmental quality conditions of the sea and coastal area by use of sustainable and innovative technologies and approaches

MONITORING MARINE LITTER (MACRO) ON THE WATER SURFACE: DATA SHEET

PROJECT MARLESS

11.10.2021

Work Package:	3. Monitoring optimization
Activity:	3.1 Harmonization of the monitoring plan and methodology
Phase Leader:	ARFVG – Autonomous Region of Friuli-Venezia Giulia
Deliverable:	3.1.3 Agreement on a method to use in the following activity

Version:	Final	Date:	11/10/2021
Type:	Methodology		
Availability:	Public		
Responsible Partner:	PP2 ARFVG – Autonomous Region of Friuli-Venezia Giulia		
Involved Partners	LP ARPAV, PP5 UNIDU, PP6 UNIBO, PP7 CIM-IRB, PP10 Puglia Region		
Editor:	Nicolò Tudorov (PP2)		
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Location name	
DFG location ID	
Country	
Surveyor Name	
e-mail address	
Date of survey	

VESSEL CHARACTERISTICS

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)*

VISUAL SURVEY TRANSECT DETAILS

Latitude/longitude start			*Recorded as nnn.nnnnn degrees at the start of the sample unit*
Latitude/longitude end			*Recorded as nnn.nnnnn degrees at the end of the sample unit*
Coordinates system			*Datum and coordinate system employed*
Vessel speed			*Average ship speed in knots*
Observation height			*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)*

ENVIRONMENTAL PARAMETERS - OBSERVATION DETAILS

Wind speed		*Recorded in (Beaufort)*
Wind direction	☐ N ☐ E ☐ S ☐ W	*Tick more than one boxes e.g. for SE wind*
Sea surface salinity		*Expressed in ⁰/₀₀ when reporting*
Viewing quality			*Good/Moderate/Poor ; in the latter two case state cause (e.g. fog)*
Sea state		*Expressed in accordance with the Douglas Sea Scale (0-9)*

NOTES

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SITE CHARACTERISTICS

Nearest river name		*Name of nearest river*
Nearest river distance		*Distance to the nearest natural input (river or stream) (kilometers)*
Nearest river position	☐N ☐E ☐S ☐W	*Position of river mouth in relation to survey area*
Nearest major fishery		*Name of the nearest major fishery (named by type)*
Nearest major fishery distance		*Distance to the nearest major fishery (kilometers)*
Nearest major fishery position	☐N ☐E ☐S ☐W	*Position of the nearest major fishery in relation to survey area*
Nearest town		*Name of nearest town*
Nearest town distance		*Distance to the nearest town (kilometers)*
Nearest town position	☐N ☐E ☐S ☐W	*Position of the nearest town in relation to survey area*
Population size of this town		*No of inhabitants*
Additional features of the town	⌐ Residential ⌐ Tourist ⌐ Residential & tourist / ⌐ Winter ⌐ Spring ⌐ Summer ⌐ Autumn	*Indicate the main characteristic of the town, residential or touristic town; in case of the later indicate the high season peak*
Name of the nearest beach		*Name of the nearest beach*
Distance to nearest beach		*Distance to the closest coastline (kilometers)*
Position of the nearest coast	☐N ☐E ☐S ☐W	*Position of the closest coastline in relation to survey area*
Nearest shipping lane distance		*Distance to the nearest shipping lane (kilometers)*
Estimated traffic density		*Recorded in number of ships/year*
Vessel type		*Indicate the type of vessels that mainly use it e.g. merchant ships, etc.*
Position of the shipping lane	☐N ☐E ☐S ☐W	*Position of shipping lane in relation to survey area*
Name of the nearest harbor		*Name of nearest harbor*
Distance to nearest harbor		*Distance to the closest harbor (kilometers)*
Harbor position	☐N ☐E ☐S ☐W	*Position of the nearest harbor in relation to survey area*
Type of harbor		*Based on the types of vessels visiting the harbor*

Size of harbor		*Record the number of ships that reach the harbor per year*
Nearest discharge of waste water distance		*Distance to the closest waste water discharge point (kilometers)*
Position of nearest discharge point	☐N ☐E ☐S ☐W	*Position of nearest discharge points in relation to survey area*
Type of waste water discharge	☐Industrial ☐Municipal ☐Other	*Indicate type of waste water discharged*

	TYPE OF MATERIAL	SIZE
	ARTIFICIAL POLYMER MATERIALS	CLASSES

Code	Description
G1	4/6-pack yokes, six-pack rings
G3	Shopping Bags incl. Pieces
G4	Small plastic bags, e.g. freezer bags, inc. pieces
G5	Plastic bag collective role; plastic bags 'shreds
G6	Drink bottles </=0.5l
G7	Drink bottles>0.5l
G8	Cleaner/cleanser bottles & containers
G9	Food containers, incl. fast food containers
G10	Beach used related cosmetic bottles and containers
G11	Other cosmetic bottles and containers
G12	Other cosmetic bottles and containers
G13	Other bottles and containers (drums)
G14	Engine oil bottles and containers <50cm
G15	Engine oil bottles and containers >50cm
G16	Jerry cans (square plastic containers with handle)
G17	Injection gun containers
G18	Crates and containers/baskets
G19	Car parts
G20	Plastic caps and lids
G21	Plastic caps/lids from drinks
G22	Plastic caps/lids chemicals, detergents (non-food)
G23	Plastic caps/lids unidentified
G24	Plastic rings from bottle caps/lids
G25	Tobacco pouches/plastic cigarette box packaging
G26	Cigarette lighters
G27	Cigarette butts and filters
G28	Pens and pen lids
G29	Combs/ hair brushes/ sunglasses
G30	Crisps packets/ sweet wrappers
G31	Lolly sticks
G32	Toys and party poppers
G33	Cups and cup lids
G34	Cutlery and trays
G35	Straw and stirrers
G36	Fertilizers /animal feed bags
G37	Mesh vegetable bags
G38	Plastic cover packaging
G39	Plastic gloves
G40	Gloves (washing up)
G41	Gloves (industrial/ professional rubber gloves)
G42	Crab/lobster pots and tops
G43	Tags (fishing and industry)
G44	Octopus pots
G45	Mussels nets/ oyster nets

SIZE CLASSES:
A. 2.5cm-5cm
B. 5cm-10cm
C. 10cm-20cm
D. 20cm-30cm
E. 30cm-50cm
F. >50cm

	TYPE OF MATERIAL	SIZE
	ARTIFICIAL POLYMER MATERIALS	CLASSES

Code	Item	
G46	Oyster trays (round from oyster cultures)	
G47	Plastic sheeting from mussel culture (Tahitians)	
G49	Rope (diameter more than 1 cm)	
G50	String and cord (diameter less than 1 cm)	
G51	Fishing net	
G52	Plastic nets and pieces of net	
G53	Nets and pieces of net <50cm	
G54	Nets and pieces of net >50cm	
G56	Tangled nets/cord	
G57	Fish boxes - plastic	
G58	Fish boxes – expanded polystyrene	
G59	Fishing line/monofilament (angling)	
G60	Light sticks (tubes with fluid) incl. packaging	
G61	Other fishing related items	
G62	Floats for fishing nets	
G63	Buoys	
G64	fenders	
G65	Buckets	
G66	Strapping bands	
G67	Sheets, industrial packaging, plasticsheeting	
G68	Fibre glass/ fragments	
G69	Hard hats/ helmets	
G70	Shotgun cartridges	
G71	Shoes/ sandals	
G72	Traffic cones	
G73	Foam sponge	
G74	Packaging and/or insulation of foamed plastic	
G75	Plastic/polystyrene pieces 0-2.5 cm	
G76	Plastic/polystyrene pieces >2.5 cm / <50 cm	
G77	Plastic/polystyrene pieces > 50cm	
G78	Plastic pieces 0-2.5 cm	
G79	Plastic pieces >2.5 cm/ < 50cm	
G80	Plastic pieces > 50 cm	
G81	Polystyrene pieces 0-2.5cm	
G82	Polystyrene pieces >2.5cm/ <50cm	
G83	Polystyrene pieces >50 cm	
G84	CD, CD-box	
G85	Salt packaging	
G86	Fin trees	
G87	Masking tape	
G88	Telephones (incl. parts)	
G89	Plastic construction waste	
G90	Plastic flower pots	
G91	Biomass holder from sewage treatment plants	

SIZE CLASSES:
- G. 2.5cm-5cm
- H. 5cm-10cm
- I. 10cm-20cm
- J. 20cm-30cm
- K. 30cm-50cm
- L. >50cm

TYPE OF MATERIAL				SIZE
ARTIFICIAL POLYMER MATERIALS	RUBBER	CLOTHES	PAPER	CLASSES

ARTIFICIAL POLYMER MATERIALS

Code	Item
G92	Bait containers/packaging
G93	Cable ties
G95	Cotton bud sticks
G96	Sanitary towels/panty liners/backing
G97	Toilet fresheners
G98	Diapers/nappies
G99	Syringes/needles
G100	Medicals/ pharmaceuticals containers/ tubes
G101	Dog feces bags
G102	Flip flops
G108	Disk pellets <5mm
G124	Other plastics/ polystyrene items (identifiable)
G252	Plastic single-use gloves
G253	Plastic single-use face-mask

RUBBER

Code	Item
G125	Balloons and balloon sticks
G126	Balls
G128	Rubber boots
G129	Tires and belts
G130	Inner-tubes and rubber sheet
G131	Wheels
G132	Rubber bands (small, for kitchen/household/ post use)
G133	Bobbins (fishing)
G134	Condoms (incl. packaging)
G135	Other rubber pieces

CLOTHES

Code	Item
G137	Clothing/ rags
G138	Shoes and sandals
G139	Backpack and bags
G140	Sacking (hessian)
G141	Carpet and furnishing
G142	Rope, string and nets
G143	Sails, canvas
G144	Tampons and tampon applicators
G145	Other textiles

PAPER

Code	Item
G146	Paper/ cardboard
G147	Paper bags
G148	Cardboard (boxes and fragments)
G149	Paper packaging
G150	Cartons/ tetrapack Milk
G151	Cartons/ tetrapack (others)
G153	Cigarette packets
G153	Cups, food trays, food wrappers, drink containers
G154	Newspaper and magazines
G155	Tubes for fireworks
G156	Paper fragments

SIZE CLASSES

M. 2.5cm-5cm
N. 5cm-10cm
O. 10cm-20cm
P. 20cm-30cm
Q. 30cm-50cm
R. >50cm

TYPE OF MATERIAL / SIZE

Group	Code	Description
WOOD	G159	Corks
WOOD	G160	Pallets
WOOD	G161	Processed timber
WOOD	G162	Crates
WOOD	G163	Carb/ lobster pots
WOOD	G164	Fish boxes
WOOD	G165	Ice- cream sticks, chip forks, chopsticks, toothpicks
WOOD	G166	Paint brushes
WOOD	G167	Matches and Fireworks
WOOD	G170	Processed/ worked wood
WOOD	G171	Other wood <50 cm
WOOD	G172	Other wood >50cm
WOOD	G173	Other wooed
METAL	G174	Aerosol/ spray cans industry
METAL	G175	Cans (beverages)
METAL	G176	Cans (food)
METAL	G177	Foil wrappers, aluminium foil
METAL	G178	Bottle caps, lids and pull tabs
METAL	G179	Disposable BBQs
METAL	G180	Appliances (refrigerators, washers, etc.)
METAL	G181	Tableware (plates, cups and cutlery)
METAL	G182	Fishing related (weights, sinkers, lures, hooks)
METAL	G184	Lobster/ crab pots
METAL	G186	Industrial scrap
METAL	G187	Drums, e.g. oil
METAL	G188	Other cans (<4 L.)
METAL	G189	Gas bottles, drums and buckets (> 4 L)
METAL	G190	Paint tins
METAL	G191	Wire, wire mesh, barbed wire
METAL	G193	Car parts/ batteries
METAL	G194	Cables
METAL	G195	Household batteries
METAL	G197	Other metal objects
METAL	G198	Other metal pieces < 50 cm
METAL	G199	Other metal pieces > 50 cm
GLASS	G200	Bottles incl. pieces
GLASS	G201	Jars, including pieces
GLASS	G202	Light bulbs
GLASS	G203	Tableware (plates, cups)
GLASS	G204	Construction material (brick, cement, pipes)
GLASS	G205	Fluorescent light bulbs
GLASS	G206	Glass buoys
GLASS	G207	Octopus pots
GLASS	G208	Glass or ceramic fragments

SIZE CLASSES

- S. 2.5cm-5cm
- T. 5cm-10cm
- U. 10cm-20cm
- V. 20cm-30cm
- W. 30cm-50cm
- X. >50cm

TYPE OF MATERIAL			SIZE
OTHER			CLASSES
G211	G213	G215	
Other medical items (swabs, bandaging, etc.)	Paraffin wax	Food waste	Y. 2.5cm-5cm Z. 5cm-10cm AA. 10cm-20cm BB. 20cm-30cm CC. 30cm-50cm DD. >50cm