

Citizen Observation of Local Litter in Coastal ECosystems

Data Management Plan

08/10/2021

Version 1

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1. Data Summary

The project COLLECT aims to demonstrate the potential for acquisition of data by citizen scientists (secondary school students) on the distribution and abundance of coastal debris in African countries. Data on the distribution of coastal plastic debris (macro-, meso- and microplastics) is currently extremely scarce in coastal environments in Africa, except for South Africa. The project will further assess attitude and awareness shifts in participating students (volunteers) after citizen science interventions. This project will be complemented by the knowledge and infrastructure transfer enabled by the POGO member institutions.

Citizen science activities in collaboration with secondary schools will be developed, where students (15 – 18 years old) will apply standard operating procedures (SOP) to acquire and sample macro (> 5mm) and microplastics (< 5mm) from sandy beaches, during the summer/wet season and the winter/dry season. Prior to the activity, the POGO partners will provide training to all participants, students, and teachers, that will include not only guidelines for field sampling, but also background information on plastic pollution.

The countries involved are Ghana, Nigeria, Benin, Cote d'Ivoire, Cape Verde, and Morocco. Malaysia will further contribute with data from occasional sampling events from outreach activities, using the same sampling and processing SOP.

The data generated in the project consists of qualitative and quantitative data, collected in .xlsx or .csv files and stored at the [MDA](#) (Marine Data Archive). The metadata will be published in [IMIS](#) (Integrated Metadata Information System). The processed data will be stored in a .pdf or .docx file. Photo records of the plastic collection will be saved as .jpeg files. The expected size of the data is < 100 GBs. The data will be analyzed with the software R studio and datasets are intended to be submitted to the European beach litter database managed by EMODnet Chemistry.

2. Making data findable (FAIR)

All projects' outcomes, the Data Management Plan (DMP), SOP and datasets, will be discoverable through the metadata catalogue in IMIS. IMIS is hosted at the Flanders Marine Institute (VLIZ), and as such, all the information stored there is subject to the [VLIZ privacy policy](#). From IMIS, the data that is stored in the MDA can be downloaded, and a DOI (Digital Object Identifier) is displayed to improve dataset findability. DOIs will be requested via the submission form at <http://www.vliz.be/en/submit-form>.

During the project and with the objective to share the data between Principal investigators (PIs) and collaborators, the data in MDA will be password protected, restricting access to external people. In MDA, the availability of the data can remain restricted for a pre-defined period (for example 2 years after finishing the project or after publication of a paper). Other working documents will also be stored in the Microsoft Teams COLLECT project folder, hosted by POGO and the Plymouth University, accessible to all collaborators and PIs, but not external users, or via a Google shared folder, with limited access to collaborators.

The data in MDA will be structured in folders according to their processing level, as follows:

- Folder named: "COLLECT_survey_raw": for raw data,
- Folder named: "COLLECT_survey_processed": for processed data,
 - The files within the processed folder will be stored according to the level of analysis, e.g., "Survey_descriptives_DDMMYYYY". Each file name will include the date when it was created.
- Folder named: "COLLECT_survey_published": for eventual published data.

In case a new version of the data is generated, this will be uploaded in MDA with respect to the original data (i.e., no overwriting of earlier versions).

The metadata of the datasets generated in IMIS will include the following elements (see Annex 1 for a detailed description of each of the fields):

- Dataset title (English)
- Dataset title (original language)
- Abstract
- Citation
- Data creators
- Metadata provider
- Data quality processing
- Keyword(s)
- Data license
- Temporal coverage
- Geographical coverage
- Geographical bounding box

The following strategic keywords will be provided to optimize the findability of the data: COLLECT, citizen science, marine litter, plastic, microplastic, macroplastic, mesoplastic, African coast, POGO, partnerships, plastic pollution, sediment, beach.

3. Making data Accessible (FAIR)

Quality controlled datasets will be publicly available after attribution of a DOI to assure that the dataset is citable and traceable. Working datasets will only be available to project PIs and collaborators. Access to the archived datasets in MDA will be regulated through an account-based registration procedure, managed by VLIZ. Authorization is only given after consulting the project contact person (Dr Ana Catarino).

Quality controlled and fitted datasets will be submitted to EMODnet Chemistry at <https://www.emodnet-chemistry.eu/>, following the [marine litter data-flow](#) to format, validate and submit beach litter data. In this way, data will be visualized and accessible from their portal following international standards to be able to integrate these datasets with others to create regional or global data products. The guidelines to generate the required beach litter data format are based on OSPAR 2010 (Wenneker et al., 2010).

4. Making data Interoperable (FAIR)

To ensure interoperability and facilitate exchange and re-use with other datasets and global initiatives, during the design phase of the project, SOP, data sheets for field collection, and spread sheets were consulted to assure the datasets follow international standards.

The following guidelines and common controlled vocabularies (such as [BODC Vocabularies](#)), will be used for consistency and interoperability:

- Macroplastics classification according to the OSPAR guidelines: Guideline for Monitoring Marine Litter on the Beaches in the OSPAR Maritime Area: https://www.ospar.org/ospar-data/10-02e_beachlitter%20guideline_english%20only.pdf
- Data tables and minimum required fields: EMODnet Chemistry guidelines (shorturl.at/MORU8)
- Operational Guidelines for Rapid Beach Litter Assessment: EP/IOC Guidelines on Survey and Monitoring of Marine Litter (shorturl.at/qFGZ0),
- Beach litter vocabulary: <https://www.emodnet-chemistry.eu/marinelitter/vocab>
- For micro-litter, controlled vocabularies from the [NERC Vocabulary Server](#) (NVS) defining the terms that may be used for micro-litter:
 - EMODnet micro-litter shapes, <http://vocab.nerc.ac.uk/collection/H02/current/>
 - EMODnet micro-litter size classes, URI <http://vocab.nerc.ac.uk/collection/H03/current/>
 - EMODnet micro-litter colour classes <http://vocab.nerc.ac.uk/collection/H04/current/>
 - EMODnet micro-litter polymer type <http://vocab.nerc.ac.uk/collection/H05/current/>

See Annex 2 for the templates for the field and sample processing datasheets.

5. Making data Reusable (FAIR)

All the data generated will be made open access and unrestricted after the completion of the project, under the Creative Commons Attribution license CC-BY Attribution, <https://creativecommons.org/licenses/by/4.0/>, that states:

“You are free to share (copy and redistribute the material in any medium or format) and to adapt (remix, transform, and build upon the material for any purpose, even commercially). You must attribute any public use of the database, or works produced from the database, in the manner specified in the license. For any use or redistribution of the database, or works produced from it, you must make clear to others the license of the database and keep intact any notices on the original database”.

Data stored in MDA will be preserved, even if VLIZ ceases to exist. Data will then be handed over to a similar company, or if no successor is found, data will be handed over to the providers.

VLIZ hosts the MDA and offers support for optimal and unlimited use. The data provider or user is free to structure and manage files and folders at its discretion, making use of the functionalities offered by the system. The development, backup and maintenance of the MDA is an institutional activity of VLIZ. One of the key activities of the Data Centre is to offer an efficient tool and support to archive data files and to ensure their long-term existence.

6. Quality control

The initial quality control of the data is the responsibility of the PIs Ana Catarino and Gert Everaert, with the collaboration of the Flanders Marine Institute Data Centre, who is responsible for the data management of the project. They oversee a series of quality control procedures to improve the quality and completeness of the data, before datasets are made available through the international repositories. After the initial quality checks and formatting of the data according to the requirements from EMODnet, the [EMODnet Beach Litter Format Validator](#), will be used to check correctness

and approval of the generated files. Quality control procedures will be described in the metadata of the dataset.

7. Ethical and GDPR aspects

Personal data (e.g., email addresses) collected in the project will not be transferred to other entities, without prior consent and will follow the General Data Protection Regulation (GDPR) EU Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016. Also, ethical aspects and additional security measures for data protection will be considered.

The Intellectual Property Rights are owned by Partnership for Observation of the Global Ocean (POGO), VLIZ and the Ghana University.

8. References

Wenneker, Barbara, and Lex Oosterbaan. "Guideline for Monitoring Marine Litter on the Beaches in the OSPAR Maritime Area. Edition 1.0." (2010).

Annex 1: Metadata template table

Metadata field	Description
Dataset title (English)	The title gives an indication of the content of the dataset; the time period and the region of sampling. It should be descriptive, meaningful and concise, allowing users to easily know what to find in the dataset.
Dataset title (original language)	The title as explained in the above field but in the original language (if applicable).
Abstract	A short summary of the dataset. This is an extension of the title addressing the following questions: WHAT, WHERE, WHEN, HOW, WHY and WHO. Character limit 1000 characters (no space).
Citation	The proposed dataset citation should reference the dataset, and not a paper using or describing the dataset. Therefore, the dataset title should be included in the dataset citation. Recommendation is: Data Creator(s) Person; Data Creator(s) Institute (division); (Publication Year); Title and Identifier, Publisher.
Data creators	All people and/or institutes who are responsible for the creation of the dataset.
Metadata provider	The person that can be contacted in case there are questions related to the dataset. This is also the person who is most likely to stay involved in the dataset the longest. Name: last name(s), first name(s), Institute (Institute, department, division), email.
Data quality processing	General explanation about the lineage of a dataset. A statement on process history and/or overall quality checks of the dataset. A link to a protocol or a manual of Quality Control Procedures can be added as well.
Keyword(s)	Different keywords that are especially important and/or descriptive for the dataset. Pick them from the standard ASFA list (https://vocabularyserver.com/asfa/), fill them in by yourself or combine keywords from the list and keywords entered by yourself, separated by ",".
Data license	Clarifying under which conditions the dataset can be used. If a CC-BY license (e.g. https://creativecommons.org/licenses/by/4.0/) cannot be used, please provide a reason.
Temporal coverage	For the dataset in YYYY-MM-DD format (or other ISO 8601 compliant formats).

Geographical coverage	List area(s) or location(s) where the data were collected. Use Marine Regions to find the adequate geo-units.
Geographical bounding box	(Min)Lat - (Min)Long - MaxLat - MaxLong: Western-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east). Eastern-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east) Northern-most coordinate of the limit of the dataset extent, expressed in latitude in decimal degrees (positive north) Southern-most coordinate of the limit of the dataset extent, expressed in latitude in decimal degrees (positive north). The geographic longitudes and latitudes must be expressed in decimal degrees, using the spatial reference system EPSG:4326 (WGS84).

Annex 2: Datasheets templates (in English, French and Portuguese)

Beach Litter Observations – Field Datasheets

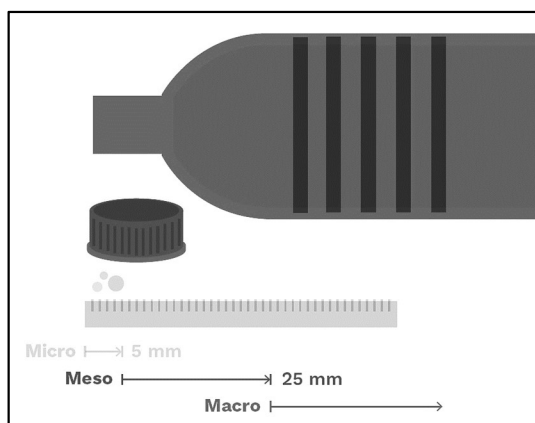
Citizen Observation of Local Litter in Coastal ECosysTems (COLLECT)

Safety First:

- Wear protective gloves, closed shoes, and sun hats
- Carry drinking water in a backpack and an adequate first aid kit (teacher) when in the field
- Work in small groups, and remain aware of your surroundings
- Do not touch potentially hazardous and sharp items, nor try to lift heavy items. The appropriate authorities should be notified of potentially hazardous items
- If discarded bottles contain any unknown liquid inside and are closed, do not open their caps nor empty the bottles: unknown bottle content may be hazardous, so avoid any contact with your skin, eyes, or clothes
- It is recommended to start sampling 1 h after the high tide to avoid being trapped by the tide
- Focus on plastic on the beach, that lay on the sand, avoid going to the water
- Do not damage the environment or disrupt local flora and fauna
- If covid-19 restrictions are in place, comply with local regulations: wear a facemask, sanitize your hands, keep a safe distance as much as possible

Teacher contact: _____

Local Pogo Partner contact: _____



Plastic litter classification by size range

Principal Investigators:

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collect@pogo-ocean.org

Beach Litter Observations:		
Completed ONCE for each transect		
School:	Country:	Date: ____ - ____ - 2021 (DD - MM - YYYY)
Group:	Starting time: ____ : ____ am/pm	Ending time: ____ : ____ am/pm
Starting GPS Coordinates:		Ending GPS coordinates:
Weather: (Sunny, Cloudy, Rainy)	Wind: (Strength, Wind Direction)	Temperature (°C):
Beach (name):		
Urban structures: *You may tick one or two boxes ☐ Hotels/Hostels ☐ Residential areas ☐ Bars/Restaurants ☐ Other: _____		
Major beach usage: ☐ Local people ☐ Swimming ☐ Sunbathing ☐ Fishing ☐ Sailing ☐ Surfing ☐ Other sports ☐ Other activities *You may tick one or two boxes		
Access to the beach: ☐ Vehicle ☐ Pedestrian ☐ Boat *You may tick one or two boxes		
Any discharge(s) of waste water: ☐ YES ☐ NO		
Is the beach frequently cleaned: ☐ YES ☐ NO If YES, how frequently (e.g. every day or week): _____ If YES, who is responsible for the cleaning (e.g. municipality): _____		
Type of beach material: (e.g. sand 10%, pebbles 50%, rock 40%) % cover rock: ____ % cover pebbles: ____ % cover sand: ____ % cover mud: ____		
Did you find stranded or dead animals? ☐ YES ☐ NO ➔ If YES, please let us know how many, if you have seen birds/fish/others, and if they were entangled in litter:		
Additional observations:		

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Field observation of Macroplastics: plastic items larger than 25 mm [Bag no. 1]

Register all the items you observe,
but collect only items smaller than 50 cm and that do not pose any sanitary risk

OSPAR code	OSPAR Description	Number of items					
General plastic Items							
1	4/6-pack yokes	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
2	Bags (e.g. shopping)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
3	Small plastic bags, e.g., freezer bags	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
112	Plastic bag ends	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
5	Cleaner (bottles, containers and drums)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
7	Cosmetics (bottles & containers, e.g. sun lotion, shampoo, shower gel, deodorant)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
8	Engine oil containers and drums <50 cm	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
9	Engine oil containers and drums > 50 cm	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
10	Jerry cans (square plastic containers with handle)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
11	Injection gun containers	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
12	Other bottles, containers and drums	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
13	Crates	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
14	Car parts	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
16	Cigarette lighters	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
64	Cigarette butts	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
17	Pens	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
18	Combs/hair brushes	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
20	Toys & party poppers	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
23	Fertiliser/animal feed bags	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
24	Mesh vegetable bags	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6

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38	Buckets	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
39	Strapping bands	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
40	Industrial packaging, plastic sheeting	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
41	Fibre glass	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
42	Hard hats	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
43	Shotgun cartridges	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Food containers and packaging; drinking bottles							
4	Drinks (bottles, containers and drums)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
6	Food containers incl. fast food containers	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
19	Crisp/sweet packets and lolly sticks	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
21	Cups	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
22	Cutlery/trays/straws	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
15	Caps/lids	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Fishing and shipping gear, ropes and nets							
26	Crab/lobster pots	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
114	Lobster and fish tags	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
27	Octopus pots	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
28	Oyster nets or mussel bags including plastic stoppers	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
29	Oyster trays (round from oyster cultures)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
30	Plastic sheeting from mussel culture (Tahitians)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
31	Rope (diameter more than 1 cm)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
32	String and cord (diameter less than 1 cm)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
115	Nets and pieces of net < 50 cm	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
116	Nets and pieces of net > 50 cm	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
33	Tangled nets/cord/rope and string	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
34	Fish boxes	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6

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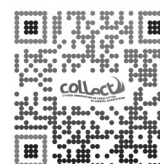
35	Fishing line (angling)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
36	Light sticks (tubes with fluid)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
37	Floats/Buoys	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Clothing and cloth (plastic fibres e.g. nylon, polyethylene)							
25	Gloves (typical washing up gloves)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
113	Gloves (industrial/professional gloves)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
44	Shoes/sandals	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
54	Clothing	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
55	Furnishing	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
56	Sacking	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
59	Other textiles (please specify in other items box*)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Foam (including Styrofoam)							
45	Foam sponge	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
117	Plastic/polystyrene pieces 0 - 2,5 cm	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
46	Plastic/polystyrene pieces 2,5 cm > < 50 cm	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
47	Plastic/polystyrene pieces > 50 cm	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
48	Other plastic/polystyrene items (please specify in other items box*)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Rubber							
49	Balloons, including plastic valves, ribbons, strings etc.	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
50	Boots	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
52	Tyres and belts	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
53	Other rubber pieces (please specify in other items box*)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Sanitary waste [Not to be collected, but disposed directly after counting – do not touch directly with your hands]							
97	Condoms	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
99	Sanitary towels/panty liners/backing strips	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
100	Tampons and tampon applicators	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6

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101	Toilet fresheners	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
102	Other sanitary items (<i>please specify in other items box*</i>)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Medical waste [Not to be collected, but disposed directly after counting – do not touch directly with your hands]							
103	Containers / tubes	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
104	Syringes	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
n/a	Face masks	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
n/a	Medical gloves (e.g. latex)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
105	Other medical items (swabs, bandaging etc.) (<i>please specify in other items box*</i>)	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
* Other items							
n/a	Plastic fragments	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
		SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6

Datasheets adapted from: OSPAR. Guideline for Monitoring Marine Litter on the Beaches in the OSPAR Maritime Area, 1.0. ed.; OSPAR Commission: London, UK, 2010; 16p; ISBN 90 3631 973 9



Chercheurs principaux :

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Observations des déchets plastiques sur la plage – Fiches de Données

Observation citoyenne des déchets locaux dans les écosystèmes côtiers

[Citizen Observation of Local Litter in Coastal ECosysTems (COLLECT)]

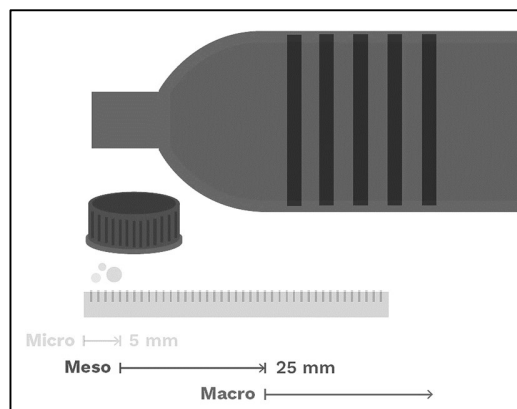
La sécurité d'abord :

- Portez des gants de protection, des chaussures fermées et des chapeaux de soleil
- Transportez de l'eau potable dans un sac à dos et une trousse de premiers secours appropriée (enseignant)
- Travaillez en petits groupes et gardez un œil sur votre environnement
- Ne touchez pas aux objets potentiellement dangereux et tranchants, et n'essayez pas de soulever des objets lourds. Les autorités compétentes doivent être informées des objets potentiellement dangereux
- Il est recommandé de commencer à travailler 1 h après la marée haute pour éviter d'être pris par la marée
- Concentrez-vous sur le plastique sur la plage, qui se trouve dans le sable, évitez d'aller dans l'eau
- N'endommagez pas l'environnement et ne perturbez pas la flore et la faune locales
- Si les bouteilles jetées contiennent un liquide inconnu à l'intérieur et sont fermées, n'ouvrez pas les couvercles et ne videz pas les bouteilles : le contenu inconnu peut être dangereux, alors évitez tout contact avec la peau, les yeux ou les vêtements.
- Si des mesures de restriction au covid-19 sont en place, suivez les règles régionales et nationales : portez un masque de protection, lavez et désinfectez vos mains, et gardez une distance de sécurité dans la mesure du possible

Contact de l'enseignant(e) : _____

Contact de le(a) Partenaire POGO : _____

Classification des déchets plastiques par gamme de taille : Micro-, Meso- et Macroplastiques



Chercheurs principaux :

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Observations des déchets plastiques sur la plage :

Compléter UNE FOIS pour chaque transect

École :	Pays :	Date : ____ - ____ - 2021 (DD - MM - YYYY)
Groupe :	Heure de début : ____ : ____ (hh:mm)	Heure de fin : ____ : ____ (hh:mm)
Coordonnées GPS lors du démarrage :	Coordonnées GPS lors de la fin :	
Météo : (Ensoleillé, Nuageux, Pluvieux)	Vent : (Force, Direction du vent)	Température (°C) :
Plage (nom) :		
Structures urbaines : *Vous pouvez cocher une ou plusieurs cases		
☐ Hôtels/Auberges ☐ Zones résidentielles ☐ Bars/Restaurants ☐ Autre : _____		
Utilisation plus importante de la plage :		
☐ Population locale ☐ Natation ☐ Soleil/Récréatif ☐ Pêche ☐ Navigation ☐ Surf ☐ Autres sports ☐ Autres activités *Vous pouvez cocher une ou plusieurs cases		
Accès à la plage : ☐ Véhicule ☐ Piéton ☐ Bateau *Vous pouvez cocher une ou plusieurs cases		
Y-a-t-il du rejet(s) d'eaux usées ? : ☐ OUI ☐ NON		
La plage est-elle fréquemment nettoyée ? ☐ OUI ☐ NON		
Si OUI, à quelle fréquence (p. ex. tous les jours ou toutes les semaines) : _____		
Si OUI, qui est responsable du nettoyage (p. ex. municipalité) : _____		
Type de matériau de plage : (par exemple, sable 10%, cailloux 50%, roche 40%)		
% couverture de roche : ____	% couverture de cailloux : ____	% couverture de sable : ____ % couverture de boue: ____
Avez-vous trouvé des animaux échoués ou morts ? ☐ OUI ☐ NON		
➔ Si OUI, s'il vous plaît laissez-nous savoir combien, si vous avez vu des oiseaux / poissons / autres, et s'ils étaient empêtrés dans des déchets de plastique ?		
Observations supplémentaires :		

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**Observation sur le terrain des macroplastiques :
articles de plus de 25 mm [Sac no. 1]**

Enregistrez tous les articles que vous observez, mais ne collectionnez que les articles de moins de 50 cm et qui ne présentent aucun risque sanitaire

OSPAR code	OSPAR Description	Nombre d'articles					
Articles en plastique généraux							
1	Serre-pack (4/6 boîtes)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
2	Sac plastique	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
3	Petit sac plastique (ex., sac de congélateur, etc.)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
112	Bout de sacs plastique	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
5	Produit de nettoyage (bouteille, fût, contenants divers)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
7	Cosmétique (bouteille, contenant divers ; exemple : lotion, shampoing, gel douche)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
8	Huile moteur - bidon et fût < 50 cm	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
9	Huile moteur - bidon et fût > 50 cm	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
10	Jerrycan (Bidon d'essence)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
11	Conteneurs de pistolets à injection	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
12	Autres bouteilles, fûts et contenants divers	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
13	Caisse	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
14	Pièces de voiture	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
16	Briquet	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
64	Mégots de cigarette	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
17	Crayon-feutre, stylo	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
18	Peignes/brosses à cheveux	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
20	Jouets et canons à confettis	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
23	Sacs pour engrais ou alimentation animale	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
24	Sac/filet à légumes/patates	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6

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38	Seau	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
39	Bandes pour emballage	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
40	Emballages de produits industriels y compris films plastiques	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
41	Résine (fibre de verre)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
42	Casque de chantier	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
43	Cartouche (de fusil de chasse)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
Contenants et emballages alimentaires ; bouteilles à boire							
4	Boisson (bouteille, fût, contenants divers)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
6	Conteneurs alimentaires, incl. conteneurs de fast food	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
19	Confiserie (emballage, bâtons de sucettes, etc.)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
21	Verre en plastique	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
22	Couvert jetable, plateaux et pailles	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
15	Bouchons, capsules, couvercles	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
Matériel de pêche et de navigation, cordes et filets							
26	Casiers à crabe/homard (pêche)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
114	Étiquettes de poisson (crustacés, poissons, ...)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
27	Pot à pieuvre	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
28	Filets à huîtres ou sacs à moules incl. lien de fermeture	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
29	Paniers à huîtres (panier rond pour l'ostréiculture)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
30	Bâches en plastique de la mytiliculture (Tahitienne)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
31	Corde (diamètre supérieur à 1 cm)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
32	Ficelle et corde (diamètre inférieur à 1 cm)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
115	Filets et morceaux de filet (taille inférieure à 50 cm)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
116	Filets et morceaux de filet (taille supérieure à 50 cm)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6

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33	Filets/cordes/ficelle emmêlés	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
34	Caisse à poissons	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
35	Ligne de pêche	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
36	Bâtonnet lumineux (tube avec liquide)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
37	Flotteurs et bouées	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
Vêtements et tissus (fibres plastiques, p. ex. nylon, polyéthylène)							
25	Gants (de ménage)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
113	Gants (professionnel/industriel)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
44	Chaussures/sandales	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
54	Vêtements	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
55	Tissus d'ameublement	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
56	Sac en toile de jute	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
59	Autres textiles (veuillez préciser dans la case 'Autre item'*)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
Polystyrène (y compris la mousse de polystyrène)							
45	Eponge synthétique	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
117	Morceau de plastique/polystyrène (taille : 0-2,5 cm)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
46	Morceau de plastique/polystyrène (taille : 2,5 – 50 cm)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
47	Morceau de plastique/polystyrène taille > 50 cm	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
48	Autre objet en plastique/polystyrène (veuillez préciser dans la case 'Autre item'*)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
Caoutchouc							
49	Ballons, y compris valves en plastique, rubans, ficelles, etc.	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
50	Bottes	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
52	Pneus et courroies	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
53	Autres objets en caoutchouc (veuillez préciser dans la case 'Autre item'*)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6

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Déchets sanitaires [à ne pas collectionner, mais éliminés directement après le comptage – ne touchez pas directement avec]							
97	Préservatif	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
99	Serviettes hygiéniques, protège-slip	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
100	Tampons et applicateurs	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
101	Désodorisants de toilette	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
102	Autre objet sanitaire (veuillez préciser dans la case 'Autre item'*)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
Déchets médicaux [à ne pas collectionner, mais éliminés directement après le comptage – ne touchez pas directement avec]							
103	Boîte, bocal, tube	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
104	Seringue	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
n/a	Masques de protection	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
n/a	Gants médicaux (p. ex. latex)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
105	Autre objet médical (écouvillon, bandage, pansement, etc.) (veuillez préciser dans la case 'Autre item'*)	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
* Autre items							
n/a	Fragments de plastique	POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
		POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
		POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
		POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
		POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
		POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
		POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
		POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6
		POINT 1	POINT 2	POINT 3	POINT 4	POINT 5	POINT 6

Bibliographie : OSPAR. Guideline for Monitoring Marine Litter on the Beaches in the OSPAR Maritime Area, 1.0. ed.; OSPAR Commission: London, UK, 2010; 16p; ISBN 90 3631 973 9



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Observação de Detritos de Plástico Marinho – Ficha de Dados

Observação Cidadã dos Detritos em Ecossistemas Costeiros

[Citizen Observation of Local Litter in Coastal ECosysTems – COLLECT]

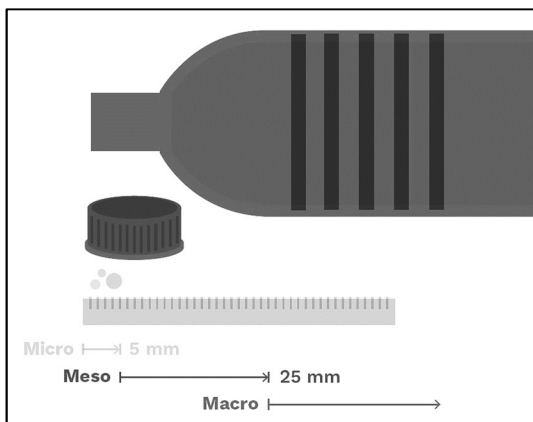
Segurança em primeiro lugar:

- Usem luvas de proteção, sapatos fechados e chapéus de sol
- Transportem água potável numa mochila e um kit de primeiros socorros adequado (professor) quando estiverem no terreno
- Trabalhem em grupos pequenos, e mantenham-se atentos ao que os rodeia
- Não toquem em itens potencialmente perigosos e afiados, nem tentem levantar objetos pesados. As autoridades competentes devem ser notificadas de itens potencialmente perigosos
- Recomenda-se começarem a amostrar 1 h após a maré alta para evitarem ficar presos pela maré
- Concentrem-se no plástico na praia, que estava na areia, e evitem ir à água
- Não danifiquem o ambiente, nem perturbem a flora e a fauna locais
- Se garrafas descartadas contiverem algum líquido desconhecido no seu interior e estiverem fechadas, não abram as tampas nem esvaziem as garrafas: o conteúdo desconhecido pode ser perigoso, por isso evitem qualquer contacto com a pele, os olhos ou a roupa
- Se estiverem em vigor medidas de restrição ao covid-19, cumpram as normas regionais e nacionais: usem uma máscara facial, lavem e desinfete as mãos, mantenham uma distância segura sempre que possível

Contato do/a professor/a : _____

Contato do POGO: _____

Classificação do detritos de plástico marinho de acordo com o tamanho: Microplástico, Mesoplástico e Macroplástico



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Observação de Detritos de Plástico Marinho:		
A completar UMA VEZ por transeto		
Escola:	País:	Data: ____ - ____ - 2021 (DD - MM - AAAA)
Grupo:	Tempo inicial: ____ : ____	Tempo final: ____ : ____
Coordenadas de GPS iniciais:		Coordenadas de GPS finais:
Tempo: (Céu Limpo, Céu nublado, tempo chuvoso)	Vento: (Força, direção)	Temperatura (°C):
Praia (nome):		
Estruturas urbanas: *Podem escolher mais do que uma opção ☐ Hotéis ☐ Zona residencial ☐ Bares/Restaurantes ☐ Outros: _____		
Uso da praia: ☐ Comunidades locais ☐ Nadar ☐ Férias/banhos de sol ☐ Pesca ☐ Vela e navegação ☐ Surf ☐ Outros desportos ☐ Outras atividades *Podem escolher mais do que uma opção		
Acesso à praia: ☐ Veículo ☐ Pedestre ☐ Barco *Podem escolher mais do que uma opção		
Descarga de águas residuais/esgoto? ☐ SIM ☐ NÃO		
A praia é limpa com frequência? ☐ SIM ☐ NÃO Se SIM, com que frequência? (diária ou semanalmente?): _____ Se SIM, quem é responsável pela limpeza? (autoridades locais?): _____		
Tipo de material/sedimento: (exemplo: areia 10%, seixos 50%, rocha 40%) % rocha: ____ % seixos: ____ % areia: ____ % lodo/lama: ____		
Viram algum animal morto? ☐ SIM ☐ NÃO ➔ Se SIM registem quantos, tipo de animal como por exemplo pássaros/peixes/outros, e se estavam enredados em detritos:		
Observações adicionais:		

Observação de Macroplásticos: detritos de plástico maiores que 25 mm [Saco nº 1]

Registem todos os itens que observarem, mas recolham apenas itens inferiores a 50 cm e que não apresentem qualquer risco para a saúde

Código OSPAR	Descrição da OSPAR	Número de itens					
Itens gerais							
1	4/6-anéis de plástico para latas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
2	Sacos (compras, supermercado)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
3	Sacos pequenos (para congelados)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
112	Asas de sacos de plástico	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
5	Frascos de garrafas de produtos de limpeza	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
7	Frascos de produtos de cosmética e casa de banho (shampô, cremes, gel de banho, protetor solar, etc)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
8	Bidões de óleo de motor < 50 cm	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
9	Bidões de óleo de motor > 50 cm	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
10	Jerry cans (recipientes de plástico grandes com pega)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
11	Cartuchos de Silicone	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
12	Garrafas, contentores, e bidões: Outros	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
13	Grades/Caixotes:	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
14	Partes de carros/motos	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
16	Isqueiros	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
64	Beatas de cigarro	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
17	Canetas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
18	Escovas e pentes	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
20	Brinquedos/artigos de festas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
23	Sacos de fertilizantes/sacos de comida para animais	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
24	Sacos de rede para batatas/vegetais	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6

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38	Baldes	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
39	Tiras/bandas para empacotamento	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
40	Embalagens industriais	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
41	Fibra de vidro	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
42	Capacetes de proteção	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
43	Cartuchos de munições	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
Recipientes e embalagens de alimentos; garrafas de bebida							
4	Garrafas/pacotes e garrações de bebida	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
6	Embalagens de comida (incluindo de "fast food")	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
19	Pacotes de batatas fritas/pipocas/doces, paus de chupa-chupa	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
21	Copos de plástico	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
22	Talheres, tabuleiros e palhinhas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
15	Tampas de bebidas, argolas de plástico de tampas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
Artigos de pesca e transporte, cordas e redes							
26	Armadilhas para caranguejos/lagostas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
114	Etiquetas plásticas de uso em pesca e aquacultura	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
27	Armadilhas para polvos /alcatruzes	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
28	Redes para ostras e sacos para mexilhão	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
29	Tabuleiros redondos para cultivo de ostras	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
30	Bandas de plástico para cultura de mexilhão (Tahitianas)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
31	Cordas (diâmetro > 1 cm)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
32	Corda e cordel (diâmetro < 1 cm)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
115	Redes e peças de redes < 50 cm	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
116	Redes e peças de redes > 50 cm	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
33	Emaranhado de redes/cordéis	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
34	Caixas de pesca	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6

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35	Linha de pescador (pesca com anzol)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
36	Tubos luminosos (tubos com líquido)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
37	Flutuadores/Bóias	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
Vestuário e pano (fibras plásticas, por exemplo, nylon, polietileno)							
25	Luvas para uso doméstico/limpeza	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
113	Luvas para uso industrial	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
44	Sapatos, sandálias e chinelos	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
54	Roupa	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
55	Acessórios (roupa)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
56	Sacos de tecido	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
59	Outros (especifiquem nas notas abaixo indicadas*)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
Espuma (incluindo esferovite)							
45	Esponja d espuma	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
117	Pedaços de esferovite 0 - 2,5 cm	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
46	Pedaços de esferovite 2,5 cm > < 50 cm	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
47	Pedaços de esferovite > 50 cm	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
48	Outros itens de esferovite (especifiquem nas notas abaixo indicadas*)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
Borracha							
49	Balões, incluindo válvulas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
50	Botas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
52	Pneus e câmaras de ar	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
53	Outros produtos de borracha (especifiquem nas notas abaixo indicadas*)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
Resíduos sanitários [Não devem ser amostrados, mas depositados no lixo depois de serem contados – por favor não toquem em nenhum destes itens diretamente com as mãos]							
97	Preservativos	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
99	Toalhetes de limpeza/fraldas/pensos	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
100	Tampões e aplicadores de tampões	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6

Investigadoras:

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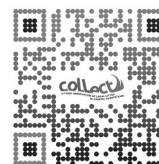
101	Blocos sanitários para sanita/ambientadores	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
102	Outros produtos sanitários (especifiquem nas notas abaixo indicadas*)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
Lixo médico [Não devem ser amostrados, mas depositados no lixo depois de serem contados – por favor não toquem em nenhum destes itens diretamente com as mãos]							
103	Recipientes/tubos	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
104	Seringas	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
n/a	Máscaras faciais	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
n/a	Luvas para fins médicos (e.g. latex)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
105	Outros itens como ligaduras, etc (especifiquem nas notas abaixo indicadas*)	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
* Outros itens							
n/a	Fragmentos de plástico não identificados	PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6
		PONTO 1	PONTO 2	PONTO 3	PONTO 4	PONTO 5	PONTO 6

Adaptado de: OSPAR. Guideline for Monitoring Marine Litter on the Beaches in the OSPAR Maritime Area, 1.0. ed.; OSPAR Commission: London, UK, 2010; 16p; ISBN 90 3631 973 9

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Observation of the Global Ocean



Principal Investigators:

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

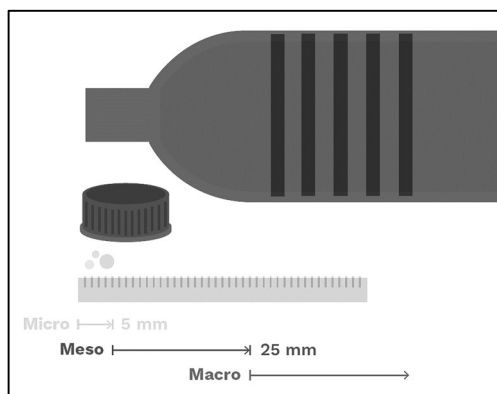
Beach Litter Observations – Classroom Datasheets

Citizen Observation of Local Litter in Coastal ECosysTems (COLLECT)

Teacher: _____

Local Pogo Partner: _____

Beach Litter Observations:		
Completed ONCE for each transect		
School:	Country:	Collection Date: ____ - ____ - 2021 (DD - MM - YYYY)
Group:		Observation Date: ____ - ____ - 2021 (DD - MM - YYYY)
Beach (name):		



Plastic litter classification by size range

Bibliography:

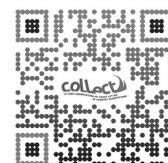
MSFD Technical Subgroup on Marine Litter (2013). Guidance on Monitoring of Marine Litter in European Seas. Luxembourg
doi:10.2788/99475

OSPAR. Guideline for Monitoring Marine Litter on the Beaches in the OSPAR Maritime Area, 1.0. ed.; OSPAR Commission: London, UK, 2010; 16p; ISBN 90 3631 973 9

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 Partnership for
Observation of the Global Ocean



Principal Investigators:

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

1) Classroom observation of Macroplastics: plastic items larger than 25 mm [Bag no. 1]

Table 1 (1/3)

No.	Description		Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
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		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						

Principal Investigators:

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**1) Classroom observation of Macroplastics: plastic items larger than 25 mm [Bag no. 1]
(continuation)**

Table 1 (2/3)

No.	Description		Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
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		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						

Principal Investigators:

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

**1) Classroom observation of Macroplastics: plastic items larger than 25 mm [Bag no. 1]
(continuation)**

Table 1 (3/3)

No.	Description		Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
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		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						

Principal Investigators:

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2) Classroom observation of Macroplastics: plastic items larger than 25 mm [Bag no. 2]

Table 2 (1/2)

No.	Description		Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
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		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						

Principal Investigators:

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
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**2) Classroom observation of Macroplastics: plastic items larger than 25 mm [Bag no. 2]
(continuation)**

Table 2 (2/2)

No.	Description		Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
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		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						
		Weight (g)						
		Length (mm)						

3) Classroom observation of Mesoplastics: plastic items between 5 – 25 mm [Bag no. 3]

Total weight (g) _____

Table 3 (1/3)

For the description, please use the following classification (e.g., blue flat pellet)

- Type: Plastic fragments, pellets, filaments (fibres), plastic films, (styro)foam, granules
- Shape:
 - Pellets: cylindrical, flat, spheres;
 - Fragments: round, angular;
 - General: irregular, elongated, degraded, rough
- Colour: Transparent, crystalline, white, cream, red, orange, blue, black, grey, brown, green, pink, yellow

No.	Description	Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6

Principal Investigators:

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

**3) Classroom observation of Mesoplastics: plastic items between 5 – 25 mm [Bag no. 3]
(continuation)**

Table 3 (3/3)

No.	Description	Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6

4) Classroom observation of Microplastics: plastic items between 1 - 5 mm [Bag no. 4]

Total weight (g) _____

For the description, please use the following classification (e.g., blue flat pellet)

- Type: Plastic fragments, pellets, filaments (fibres), plastic films, (styro)foam, granules
- Shape:
 - Pellets: cylindrical, flat, spheres;
 - Fragments: round, angular;
 - General: irregular, elongated, degraded, rough
- Colour: Transparent, crystalline, white, cream, red, orange, blue, black, grey, brown, green, pink, yellow

Table 4 (1/3)

No.	Description	Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6

Principal Investigators:

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

**4) Classroom observation of Microplastics: plastic items between 1 - 5 mm [Bag no. 4]
(continuation)**

Table 4 (3/3)

No.	Description	Spot 1	Spot 2	Spot 3	Spot 4	Spot 5	Spot 6

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

Observations des déchets plastiques – Fiche de données en classe

Observation citoyenne des déchets locaux dans les écosystèmes côtiers

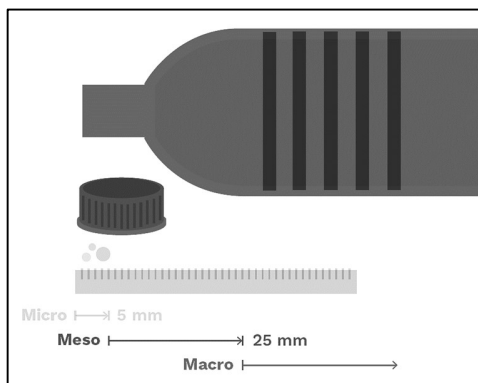
[Citizen Observation of Local Litter in Coastal ECosysTems (COLLECT)]

L'enseignant(e) : _____

Partenaire POGO : _____

Observations des déchets plastiques :		
Compléter UNE FOIS pour chaque transect		
École :	Pays :	Date: ____ - ____ - 2021 (DD - MM - YYYY)
Groupe:		Date d'observation : ____ - ____ - 2021 (DD - MM - YYYY)
Plage (nom):		

Classification des déchets plastiques par gamme de taille : Micro-, Meso- et Macroplastiques



Bibliographie :

MSFD Technical Subgroup on Marine Litter (2013). Guidance on Monitoring of Marine Litter in European Seas. Luxembourg
doi:10.2788/99475

OSPAR. Guideline for Monitoring Marine Litter on the Beaches in the OSPAR Maritime Area, 1.0. ed.; OSPAR Commission: London, UK, 2010; 16p; ISBN 90 3631 973 9



Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)

collect@pogo-ocean.org

1) Observation en classe des macroplastiques : objets en plastique de plus de 25 mm
[Sac no. 1]

Table 1 (1/3)

No.	Description		Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
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		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)

collect@pogo-ocean.org

1) Observation en classe des macroplastiques : objets en plastique de plus de 25 mm
[Sac no. 1] (continuation)

Table 1 (2/3)

No.	Description		Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
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		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						

Chercheurs principaux :

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1) Observation en classe des macroplastiques : objets en plastique de plus de 25 mm
[Sac no. 1] (continuation)

Table 1 (3/3)

No.	Description		Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
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		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)

collect@pogo-ocean.org

2) Observation en classe des macroplastiques : objets en plastique de plus de 25 mm
[Sac no. 2]

Table 2 (1/2)

No.	Description		Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
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		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)

collect@pogo-ocean.org

2) Observation en classe des macroplastiques : objets en plastique de plus de 25 mm
[Sac no. 2] (continuation)

Table 2 (2/2)

No.	Description		Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						
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		Longueur (mm)						
		Poids (g)						
		Longueur (mm)						

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)

collect@pogo-ocean.org

3) Observation en classe des Mesoplastiques : objets en plastique entre 5 et 25 mm
[Sac no. 3]

Poids Total (g) _____

Table 3 (1/3)

Pour la description, veuillez utiliser la classification suivante (p. ex., pastille plate bleue)

- Type : Fragments de plastique, pastilles, filaments (fibres), films plastiques, polystyrène, granulés
- Forme :
 - Pastilles : cylindrique, plat, sphérique ;
 - Fragments : rond, angulaire ;
 - Général : irrégulier, allongé, dégradé, rugueux
- Couleur : Transparent, cristallin, blanc, crème, rouge, orange, bleu, noir, gris, brun, vert, rose, jaune

No.	Description	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

**3) Observation en classe des Mesoplastiques : objets en plastique entre 5 et 25 mm
[Sac no. 3] (continuation)**

Table 3 (2/3)

No.	Description	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)

collect@pogo-ocean.org

4) Observation en classe des Microplastiques : articles en plastique entre 1 et 5 mm [Sac no. 4]

Poids Total (g) _____

Pour la description, veuillez utiliser la classification suivante (p. ex., pastille plate bleue)

- Type : Fragments de plastique, pastilles, filaments (fibres), films plastiques, polystyrène, granulés
- Forme :
 - Pastilles : cylindrique, plat, sphérique ;
 - Fragments : rond, angulaire ;
 - Général : irrégulier, allongé, dégradé, rugueux
- Couleur : Transparent, cristallin, blanc, crème, rouge, orange, bleu, noir, gris, brun, vert, rose, jaune

Table 4 (1/3)

No.	Description	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

4) Observation en classe des Microplastiques : articles en plastique entre 1 et 5 mm
[Sac no. 4] (continuation)

Table 4 (2/3)

No.	Description	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6

Chercheurs principaux :

Ana I. Catarino (VLIZ) and Edem Mahu (Ghana University)
collect@pogo-ocean.org

**4) Observation en classe des Microplastiques : articles en plastique entre 1 et 5 mm
[Sac no. 4] (continuation)**

Table 4 (3/3)

No.	Description	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6

Investigadoras:

Ana I. Catarino (VLIZ) e Edem Mahu (Ghana University)
collect@pogo-ocean.org

Observação de Detritos de Plástico Marinho – Ficha de Dados na Aula

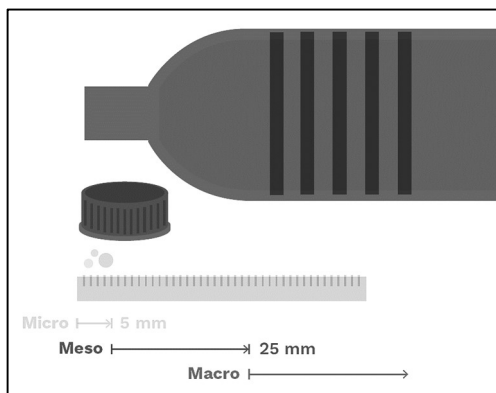
Observação Cidadã dos Detritos em Ecossistemas Costeiros

[Citizen Observation of Local Litter in Coastal ECosysTems – COLLECT]

Professor/a: _____

Contato do POGO: _____

Observação de Detritos de Plástico Marinho:		
A completar UMA VEZ por transeto		
Escola:	País:	Data de recolha: ____ - ____ - 2021 (DD - MM - AAAA)
Grupo:		Data das observações: ____ - ____ - 2021 (DD - MM - AAAA)
Praia (nome):		

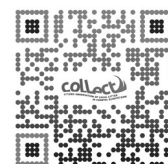


Classificação do detritos de plástico marinho de acordo com o tamanho: Microplástico, Mesoplástico e Macroplástico

Bibliografia:

MSFD Technical Subgroup on Marine Litter (2013). Guidance on Monitoring of Marine Litter in European Seas. Luxembourg
doi:10.2788/99475

OSPAR. Guideline for Monitoring Marine Litter on the Beaches in the OSPAR Maritime Area, 1.0. ed.; OSPAR Commission: London, UK, 2010; 16p; ISBN 90 3631 973 9



1) Observação de Macroplásticos na aula: detritos de plástico maiores que 25 mm [Saco nº 1]

Tabela 1 (1/3)

Nº	Descrição		Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
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		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						

1) Observação de Macroplásticos na aula: detritos de plástico maiores que 25 mm [Saco nº 1]

Tabela 1 (2/3)

Nº	Descrição		Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						

1) Observação de Macroplásticos na aula: detritos de plástico maiores que 25 mm [Saco nº 1]

Tabela 1 (3/3)

Nº	Descrição		Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						

2) Observação de Macroplásticos na aula: detritos de plástico menores que 25 mm
[Saco nº 2]

Tabela 2 (1/2)

Nº	Descrição		Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						

2) Observação de Macroplásticos na aula: detritos de plástico menores que 25 mm
[Saco nº 2]

Tabela 2 (2/2)

Nº	Descrição		Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						
		Peso (g)						
		Comprimento (mm)						

3) Observação de Mesoplásticos na aula: detritos de plástico entre 5-25 mm [Saco nº 3]

Peso total (g): _____

Para a descrição, utilize a seguinte classificação (por exemplo, película transparente)

1. Tipo: Fragmentos de plástico, contas/pérolas, filamentos (fibras), películas plásticas, espuma (esferoveira), grânulos
2. Forma:
 - a) Contas/pérolas: cilíndricos, planos, esferas;
 - b) Fragmentos: redondos, angulares;
 - c) Gerais: irregulares, alongados, degradados, ásperos
3. Cor: Transparente, cristalino, branco, creme, vermelho, laranja, azul, preto, cinzento, marrom, verde, rosa, amarelo

Tabela 3 (1/3)

Nº	Descrição	Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6

3) Observação de Mesoplásticos na aula: detritos de plástico entre 5-25 mm [Saco nº 3]

Tabela 3 (2/3)

Nº	Descrição	Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6

3) Observação de Mesoplásticos na aula: detritos de plástico entre 5-25 mm [Saco nº 3]

Tabela 3 (3/3)

Nº	Descrição	Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6

4) Observação de Microplásticos na aula: detritos de plástico entre 1 - 5 mm [Saco nº 4]
Peso total (g) _____
Para a descrição, utilize a seguinte classificação (por exemplo, película transparente)

1. Tipo: Fragmentos de plástico, contas/pérolas, filamentos (fibras), películas plásticas, espuma (esferoveira), grânulos
2. Forma:
 - a. Contas/pérolas: cilíndricos, planos, esferas;
 - b. Fragmentos: redondos, angulares;
 - c. Gerais: irregulares, alongados, degradados, ásperos
3. Cor: Transparente, cristalino, branco, creme, vermelho, laranja, azul, preto, cinzento, marrom, verde, rosa, amarelo

Tabela 4 (1/3)

Nº	Descrição	Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6

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4) Observação de Microplásticos na aula: detritos de plástico entre 1 - 5 mm [Saco nº 4]

Tabela 4 (2/3)

Nº	Descrição	Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6

4) Observação de Microplásticos na aula: detritos de plástico entre 1 - 5 mm [Saco nº 4]

Tabela 4 (3/3)

Nº	Descrição	Ponto 1	Ponto 2	Ponto 3	Ponto 4	Ponto 5	Ponto 6