

COASTWATCH EUROPE SHORE SURVEY 2024

Sep. 15th – Oct. 15th

5 step SUMMARY: more detail in GUIDE NOTES on www.coastwatch.org

1. FIND AND BOOK YOUR SURVEY UNIT (there are 2 options):

OPTION 1: DIY - all online

Go to www.coastwatch.org, follow survey booking instructions or straight to the Coastwatch map - QR code beside question A1 of the Survey Form - to choose your 500m survey unit(s). Take a photo or screenshot of the map with highlighted su and its unique code.

OPTION 2: contact Coastwatch

Contact regional or national Coastwatch coordinator (see bottom of page) to help you find a suitable area to book. Indicate if you are a new volunteer, want to join others and/or do training.

2. PLAN YOUR SURVEY

- TIME: its best to survey interesting shores at spring low tide (days around full & new moon). Start an hour before low tide. Google: Low tide at (nearby coastal town) and date. Straight forward gravel or sand with dune can be surveyed any low tide and takes ± 30 min. Complex shores with streams and the prospect of special low water finds checked at spring low might take 1.5 hours.
- WATER TESTS: if a stream or other inflows discharges into your su, ask Coastwatch for Nitrate test(s). Bring any extra tests yourself.
- SURVEY MATERIALS: procure hard copy or print survey form and possibly the ID poster.

3. MATERIALS CHECK LIST before going out to do your fieldwork:

- 1. Shore Survey form, 1 per 500m survey unit (su) and two biros
- 2. Map: as screenshot on phone, or printed or sketched.
- 3. Guide Notes & species ID posters (on paper or phone)
- 4. Phone with camera

5. Nitrate test kits if you have fresh water inflows entering & clean yoghurt tub **USEFUL:**

A rucksack with waterproof phone bag, clip board, hankies, plaster hair tie, raingear, small water bottle to bring a sample back evidence or to do more tests, a container with lid for any special finds.

4. SURVEY

- Complete the survey form while checking the shore from edge of land to low water. If there are several of you, or school look at detailed guide notes for dividing labour. NB If the tide is starting to come in, focus on the low shore and biodiversity Pages 3 & 6.
- Take pictures of key findings and if concerned or immediate action is needed, call Coastwatch coordination or relevant authority.

5. BACK AT BASE or CAFÉ with a nice hot drink in a real cup:

- Input your results online while its fresh in your mind at www.Coastwatch.org if on your PC, or using your mobile phone on the **SPACES** app from Wix (iPhone and Android) and join COASTWATCH using the invite code: **OWQYUO** or use QR code on page 7
- Post (if you cannot input) to: Coastwatch, Civil & Env. Engineering, TCD, Dublin 2, IRL.



HEALTH AND SAFETY

- Check the weather to avoid storms, high waves and heavy swells.
- Wear suitable boots/water shoes; bring raingear & layers of clothes.
- Survey where it's safe. Avoid walking over wet rocks and onto soft mud (most inner estuary sites) where you could sink or get cut off.
- Survey with a friend where possible and share your plans and return.

SHORTCUTS

- Complete most of page 1 before going out.
- Share questions (e.g. counts) between surveyors.
- Do two adjacent survey sites on 1 form by using 2 different colour biros. (1/survey unit) to save paper and time.

Contacts/Queries: Regional coordinators are listed on: www.coastwatch.org
Coastwatch HQ are in Wexford + Trinity College Dublin: survey@coastwatch.org
International and/or urgent: Karin Dubsky +353 (0)86 8111 684 & KDubsky@tcd.ie
Mapping/Data Handling Queries: Kevin Lynch KLynch@riochtgis.ie

THIS SURVEY FORM IS ORGANISED IN THEMATIC SECTIONS

Section	Covering	Page
A	Surveyors, Area Designation & Access to the Shore	1
В	Hinterland, Inflows (water draining from land) and Sewage Pollution	2
C, D	Splash zone, Intertidal, Animals and Plants	3
E	Waste and Litter (macro to micro), Oil and Tar	4
F	Overall shore looks, shore cleaning, Notes and Threats	5
Extra: Biodiversity & Use	Biodiversity and shore use specific for your country or region	6
Extra Marine Litter	Banned Single Use Plastics (SUP Directive)	7

O

A Backg	<u>round info</u>	<u>ormation</u>	on th	e 500 m	survey unit & surv	eyor(s)
	County code stwatch.org	Block code	e Ur	it code		Scan me with your phone to see the Coastwatch m
Name of surve Map name	y unit or area			Local naı	me if different &/o	r landmark
Name and add	ress of surve	yor(s)/scho	ol/gro	up		
Name (Please wr	ite <i>very</i> clearly!)					
Address (Please	give your addre	ss, phone and	d email	only if yo	u agree to be contac	ted by Coastwatch)
Talambana						
Telephone			mail			
Date of survey					r privacy:	
Day M	onth Ye	ear			ou like to be named ontributor?	as surveyor and
					Yes	No
How well do yo	ou know this A little	_	ı 1 st Or	2 nd visit		V
From present	knowledge - i				officially designanelp with green par	
↓ If yes, <u>tick</u> whi	ch nature &/c	r human us	e des	ignation	s or permits app	ly:
(UNESCO) Biosphere Res	erve		designated	'Bathing Water'	
RAMSAR	Site			designated	Shellfish Production	Area'
Natura 200	00 site (SPA, cS A	C or SAC)		Access for	vehicles (on shore pa	arking, route to fields)
National F	Park			Other use	right or designation (s	eaweed harvest, boat slip)
Other Nat	ure designation.					
ls there nublic	access to vo	ur coastal i	ınit fr	om land	down to high wa	iter?
by vehicle	•	lease tick if:			ked private or prohibi	
by foot	, p		=		ially inaccessible.	
by wheelcha		ı		•	-	

for office use



	Farmland: Intensive grazing	Village o	r town resid	lential		
	Farmland: Tillage, horticulture	 ☐ Tourist r	esort			
				· (C. · ; · I)	NB - E	
	Farmland: Rough grazing	Waste ti	p/dump (off	icial and un	official)	Coastv
	Park, woodland, forest	, commercia	al area, or p	ower statior	availa	
	Dunes	ction site				
	Wetland (bog, marsh, lagoon)	Transpo	ort→ <u>tick</u> : □ l	road □ trair	n □ carpark	□ harbo
	Rock or other bare natural sediment	Othor	e.g. golf cou	uraa)	·	
	Treation and parameter assument		(0.9. 90 000			
	Please count all inflows into your s.u. as pencountered. If >4, choose the most important inflows are encountered - or important inflows as encountered - or important inflows.	ow in terms			100	
	•		IIIIOW I	IIIIOW Z	iiiiiow 5	IIIIIOW 4
	e: 'P' for Pipe, 'S' for Seepage, 'D' for Drain, storm dration canal, 'R' for River, stream. Add R name if avait					
	ow Size: S (S mall), M (M edium) or L (L arge)					
✓	if found					
Ani	mal life in/on water (and add F if you see live Fish)					
A ba	ad smell from the inflow. Add CI if a chlorine smell + ta	ake sample				
	colour/scum/froth					
	d Fish - if yes, please add a count/estimate and photo	graph				
	neral Waste/litter dumped or washed down					
	itary litter &/or visible sewage mentous algae &/or sewage fungus. Add B if it's a blan	kot lavor				
	petrol or diesel	iket layel				
	asive Alien Species. Note 'W' if in water or 'B' on inflo	w b anks				
(see	e Coastwatch IAS poster for some IAS species)					
<u>If yo</u>	u have access to any test kits, please test inflo	w in the fre	sh water zo	one and red	cord result	s here:
	ow water:		Inflow 1	Inflow 2	Inflow 3	Inflow 4
	you detect Nitrite (NO2)? If tested, please circle + yes or		+ or -	+ or -	+ or -	+ or -
	ate (mg/l NO ₃) levels (read result 1-2 minutes after dip					
Tra	nsparency: (Yoghurt tub test) 1= very poor to 5= crys					
Any	Any other tests taken, pl tick and note results in comments					
	e Total Number of Inflows counted in the	survey un	it was:			



<u>C</u>	SPLA	SH Z	ONE (The sho	reline from mean h	igh water up	to land - spring high	watermark)	
C1	Indicate the	e appro	ximate v	width (of splash zone	. (Tick severa	al widths if area is not u	niform)		
•	0-1m	· · · —	1-5m			0-250m	> 250m (es	-	hia stens)	
00								umate with	big stops)	
C2				•	n zone? (Tick up				15	
	Salt Ma				ravel, Stones	_	Construction (not ero			
	Reed E	Bed	1	Natural I	Rock/boulder	Hard ero	sion control Rock arr	nour, ceme	nt	
	Dune			Cliff		Hard Erosion Control Sea Wall (n repair needs)				
	Other (e.g. bog)			<u> </u>	Soft erosi	on control (man-mad	le e.g. bank)	
D	INTERTI	DAL (From low	to high v	vater) Also	see Extra C	Questions page 6			
D1			•	h of th	_	_	ide. (If width varies, t	ick all that ap	oply)	
	< 5m		5-50m		50-250m	> 250m				
D2	What is the	intertio	dal surfa	ace co	mposed of: (Ti	ck max. four	boxes)			
	Solid r	rock			☐ Sa	and				
	Boulde	ers (>20c	m ø)		☐ si	It or mud				
		•	,			hor (o.a. m	orl post walls infill)			
	Grave	I (0.2 – 20	ociii ø)			iner (e.g., ma	aerl, peat, walls, infill)	1		
D3							tertidal&/or spla	shzone?		
	Extra seaweed	and seagra	ass info and	d project	ideas are available o	n <u>www.coast</u>	vatch.org			
	Glassy	wort (Salid	cornia)			Bro	own /or red seaweed	growing		
	Cord	grass (Spa	artina)			Gre	een seaweed: <u>patche</u>	s or thin ba	<u>nd</u>	
	Sea d	rass (7ns	tera)	arowin	g swept up	Gr	een seaweed: <u>carpet</u>	cover or th	ick mats	
			- 📖							
	Other r	noteworth	y native p	ant		Dis	lodged decaying sea	weeds of ar	ny kind	
D4	Any invasiv	e alien	species	of an	imal, plant, or s	eaweed wa	ater, splashzone & in	nmediate hi	nterland?	
	Yes		No	Un	sure Note					
						ssum muticu	<i>m</i> particularly welcon	ne to feed in	nto study	
	occ invasive A	псп орссі	C3 1 Ootor	01 001110	. Thousand danger	odin matioa	m particularly welcom		no stady.	
D5	Indicate wh	ich of t	he anim	als lis	ted below you	found ali	ve or dead. Bird f	lu suspec	ts report	
Anim		Alive	Dead		mal	Alive	Count (or estimate)	Dead	Count	
Jellyfi					abirds					
Sea anemone Worms + casts		Sea	abirds with oil							
Molluscs/seashells			phins or Whales							
	/ shells = dead)			Rat	•					
Barna				Oth	ers and Notes:					
Crabs										
Sea u	rchins									
Fish	011									



E LITTER, WASTE AND POLLUTION (at all shore levels)

E1	<mark>ick</mark> major item(s) found on your survey unit anywhere from start of hinterland to wate
	ive any extra information in F6, take pictures if possible and note location if this requires follow up work.

Landfill Materials (e.g. concrete, rubble, debris from sea defences, demolition)				
Abandoned Vehicles, Girders, Machines				
Household furnishings (e.g. beds, carpets, pieces of furniture etc.)				
Dumped household refuse in bags or piles of rubbish				
Ship wreck, or parts of ship wreckage				
Tyres. Please add a count if more than 1 →				
Aquaculture trestles and other large abandoned aquaculture gear				
Other. Please specify				

E2 LITTER Count: Drinks containers and other items found anywhere on the shore.

If there is too much to count, please estimate. If you didn't have time to count <u>mark NC.</u>

Drinks Containers:	Count	Other Count Litter	Count
Plastic Bottles		Bottle Lids	
Metal Cans		Wet Wipes	
Glass Bottles		Plastic Shopping Bags	
Cartons/Tetra pack		Other*	

^{*}if you see items which you think should be counted as a category in future.

E3 <u>Ti</u>	ck which of the following items of general litter o	or pollution you found on your unit.
	Fishing or aquaculture gear; tick source(s)————Tra	ps Nets Aquaculture Angling
	Rope and String	Geotextile (used under trails and rock armour)
	Hard Plastic containers like crates, buckets	Textiles, shoes, gloves and clothing
Ō	Foamed Polystyrene items/pieces. Single beads > E4.	Paper, cardboard and worked wood
	Sanitary waste, condoms, nappies	Food, fish waste and bones
	Medical Waste - syringes, plasters	Faeces mammal (e.g. dog, cow, human)
	Container(s) of hazardous but not medical substance (e.g. chemical drums empty or full)	Glass (not drinks), including light bulbs
	Other plastics (not any of above)	Cans (not drinks), sprays, paints
	Tar, oil, petrol. If found, describe in F6. If action is needed, alert local auth & Coastwatch.	Other (e.g. balloons, dog poo bag)
E4 Mi	cro litter: Do you see litter which fits onto a coin	as shown?
	Yes No f yes, please collect sample & tick all present: Fibre Nurdle	Flake Bead Bead
E5 Lo	ooking back, which area was most littered? If seve	ral, tick more than one.
	Splash zone Tide mark Intertidal	Sea
Wa	as that litter: accumulating in area(s) or	was it spread more or less evenly?



F GENERAL OBSERVATIONS

F1	Has recent weather made the appearance of your coastal unit change?
	Yes, looks cleaner than usual No, recent weather is insignificant
	Yes, looks worse than usual Don't know
	If there are other reasons for changed appearance, please note space at F6 below.
F2	Has the shore been cleaned within the last week?
	Yes No Don't know
F3	Is there any planned change of character (positive or negative) which is imminent for this coastal unit? (If 'yes' describe in F6) Yes No Don't know
F4	Tick if you have evidence of a <u>serious risk</u> or <u>imminent planned change for the worse</u> from any of the threats/activities listed below to your s.u. or adjacent sea/land. ACTION: In case of threat which requires immediate action, call relevant authority or Coastwatch.
	Erosion Water pollution by Sewage
	Flooding Recreational abuse Oil
	Mining/quarrying Aquaculture Agricultural or industrial farmin
	Construction/sealing Invasive Alien Species (IAS) Industrial pollution
	Dumping, tipping, infill (over)harvest of Biodiversity Other
F5 ♡	
F3	Is there something or things you really like or love about this survey unit? Tell us:
F6	Comments or observations:

Thank you so much for all your work! If interested and willing turn to Extra questions PTO



EXTRA QUESTIONS Ireland and UK Take and share lots of photos please.



Biodiversity – just a few important members of 3 groups which may be found on your shore:

. Worms: note if you see worms	s, their casts, reefs or large patches with lots of:
--------------------------------	--

Worms (other add in bottom box)	Found?	Comment (Amounts/ noteworthy change)
Lug worm (Arenicola) casts (at all shore levels)		
Honeycomb (Sabellaria) reef (Mid-Low shore levels)		
Sand mason (Lanice) bed &/or casts (low shore and shallow sand/shingle pools)		
Other Worm of note?		

Sea shells	Alive	Dead	Describe your find. (e.g. large mussel bed, or tiny mussel spat in	Photo or speciment
and eggs		(empty shell)	a few cracks on rocks, Gigas oyster stuck to rocks	for ID?
Mussel				
Native oyster				
Gigas oyster				
Cockle				
Razor shell				
Limpet				
Slipper limpet				
Dogwhelk				
Shellfish eggs				
Other:				
III. Fish: photos to Did you see fish?		ify species	of fish and fish egg cases are extra welcome. See guide notes on ways to find th Yes - If you identified please note:	em.
Count/estimate:	W	hat shap	pe? streamline eel-like eel-like	<u> </u>
If you know this plant	ace, did	you see	fish here <u>before</u> ? \square No \square Yes	
Did you find any fi	sh ega	case(s)?	No ☐ Yes ☐ <u>if yes,</u> please estimate count: coll	ect/photo

Harvesting from the sea

Do you see or know of aquaculture, collecting for home use, or commercial harvesting? (Add if other)

	Aquaculture	Harvesting	Commercial Harvesting	Comment
Seaweed				
Mussel				
Oyster				
Periwinkle				
Crab				
Lobster				
Fish				
Other				

li	f a management (or restoration pla	n was to b	e drafted fo	or this area,	would you	like to be in	nvolved	in the
C	drafting? yes - no	- or may be and	add any c o	omment.					
г									



EXTRA INTERNATIONAL MARINE LITTER PAGE

As COVID and associated litter has dwindled and we have optimistically removed the COVID litter section. If you do find COVID litter, especially masks, please note in end comments below.

TRACKING THE SINGLE USE PLASTICS (SUP) DIRECTIVE

The questions below relate to Directive (EU) 2019/904 and especially the Single Use Plastic items which have been banned since July 2021 under Article 5 and Irish legislation to implement the directive. Our SUP questions were introduced in 2020. So this will be our 5th survey tracking banned items in shore litter. The data collected by volunteers so far has improved law enforcement - see SUP workshop report. More is planned and Coastwatch is now partner in an international project trying to bring about top environmental law enforcement. So we would be delighted if you could participate in gathering this information in autumn 2024.

	~			
Tick/count	Single Use Plastic banned since 4 th July 2021			
	Plastic cotton bud sticks			
	Plastic cutlery (forks, knives, spoons, chopsticks)*			
	Plastic single use plates, including paper plates with plastic film*			
	Plastic straws			
	Plastic beverage stirrers			
	Plastic sticks to be attached to balloons			
	Food containers made of expanded polystyrene (EPS) (boxes, burger scallop shells, intended for immediate consumption, or take-away without reheating) *			
	Beverage containers and cups made of expanded polystyrene*			
	Plastic Lids for Beverage Containers (coffee cups, milk shakes)* Currently these are only banned if on polystyrene cups, but please record all cup lids .			
Any Comment				

Follow-up suggestion for items marked*:

Take these items home, wash them and look for the embossed number between 1 and 7 in a triangle, to tell you what kind of plastic was used -e.g. polystyrene-> See Coastwatch bookmark for ID of the codes and more detail including recyclability in Ireland.



We are planning our second international workshop on the SUP Directive, together with a results highlights launch to which all surveyors will be invited. Your SUP litter information, photos, exhibits and recommendations could be valuable display and discussion material.

Thank you so much for all your work!

Please submit results no later than October 25th 2024 from your PC on our website: www.Coastwatch.org or use your mobile phone (iPhone or Android) and the SPACES app. Scan QR code ->

Any comment, or queries? Contact your regional coordinator, or send an email to survey@coastwatch.org or if urgent Karin KDubsky@coastwatch.org 00 353 (0)86 8111 684.



more4nature

Acknowledgement: This citizen science survey is carried out and coordinated by Coastwatch volunteers and supported by the Department of the Environment, Climate and Communications.