The Baltic Sea Project within UNESCO ASPnet
COAST WATCH
Estonian activity report 2018/2019

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The summary of schools that were involved in the coast watch activities in Estonia and the amount of students involved:

2018	**2019**
• Audentese Erakool Õp Külli Relve 25 students (2018)	• Kadrina Keskkool Õp Siret Pung 13 students (2019)
• Viimsi Kool Õp Karin Keert 24 students (2018)	• Lihula Gümnaasium Õp Marje Loide 5 students (2019)
• Rakvere Põhikool Õp Vilja Podanik 2 students (2018)	• Tallinna 21. Kool Helle-Kai Saapar 50 +47 students (2019)
• Kolga kool Õp Laura Pürjema /Linda Metsaorg 15 students (2018)	• Viimsi Kool Õp Karin Keert 3 students (2019)

During 2018, 4 coast observations were conducted. 66 students participated from II and III school level. (5.-9. grade)

During 2019, 5 coast observations were conducted. 118 students participated. The age of the students ranged from 12-17. (5.-10. grade)

Colors have been used to differentiate between results from different years as follows:
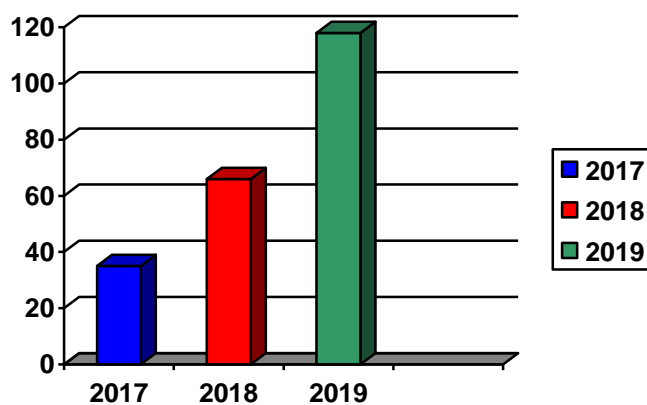
2017- blue

2018- red

2019- green

Figure 1. Number of students in coastal surveys in the last three years

The most fascinating observations from the coast observations:

* All places of spectating were marked (national parks, nature reserves and/or the beach) and easily accessible.

* The biggest portion of found litter was made up of plastic bags, bottles as well as food waste, paper, sanitary materials, shoes and textile waste.

* During the 2019 coast observation Kadrina High School saw a rat at Vainupea and Tallinn's 21. High School saw a seal in Pirita.

BSP COASTWATCH QUESTIONNAIRE RESULTS

A 5 Do you know your site: Well 3 2 2 $_1$ A little 2 12$_2$ Here on 1st or 2nd visit 11 1 $_3$

A 6 Is your unit (part of) specially designated area?   Yes 6 43 $_1$ No 1_ $_2$ Don´t know ___ $_3$

A 7 If your unit is specially designated please mark:

UNESCO Biosphere Reserve __ $_1$
Ramsar Site ___$_2$
National Park 2 2 $_3$
Nature or Marine Reserve 1 $_4$
Other designation of natural importance___$_5$
Bathing water 4 3 3 $_6$

A 7   Is access to your coastal unit:

Easy by foot/vehicle 6 45 $_1$ Difficult or normally ___ $_2$ Tick, if access is prohibited___$_3$

B   INFLUENCES FROM LAND immediate hinterland up to 500 m beyond the splash zone

B 1   Is the immediate hinterland (up to 500 m from splash zone) mainly devoted to:
(tick up to five boxes if necessary)

Intensive grazing 1 $_1$
Tillage farming incl. horticulture___ $_2$
Scrub or rough grazing 1 3$_3$
Dunes 22 $_4$
Park/woodland/forest 4 4 3 $_5$
Wetland (bog, marsh, lagoon) 1 3 $_6$
Rock/sand 44 5$_7$

Village or residential 2 24 $_8$
Tourist resort 1 2 $_9$
Waste tip ___ 1$_{10}$

Industry, port industry, power station ___$_{11}$
Transport: road, train port, marinas 2 12 $_{12}$
Construction site ___ $_{13}$
Military zone 1 $_{14}$
Other ___ $_{15}$

C SPLAZH ZONE the shoreline from mean high water up to spring high water

C 1 Indicate what the area is mainly composed of: (tick maximum 2 categories)

Solid rock	Boulders 20 cm +	Gravel 0.2-20 cm	Sand	Silt or Mud	Other (built walls)
1	4 2 5 2	2 2 2 3	4 4 4 4	2 1 5	1 6

C 2 Which of the plants listed did you find in your unit?

Reed bed	Sea Grass *Zostera*	Brown or Red Algae	Green algae		Dislodged decaying algae	Other
			Patches or thin band	Extensive cover or thick mats		1 1 2
2 1 2 1	1 1 1 2	6 3 4 3	3 3 4 4	2 2 5	2 2 3 6	7

C 3 Size of bladder wrack *Fucus vesiculosus*, varies in different areas of the Baltic Sea depending on living conditions. If you have found bladder wrack in your area, please take 3 – 5 plants and measure the length of the plant from the attaching place to the top of the longest branch and calculate the average.

Plant was attached   yes 2 2 no 4 4 2

Average length of bladder wrack 18cm 14 16 cm

Look carefully bladder wrack plants. Are there growing other alga (hair, filaments).
none 2,2 2 a few 42 2 many _____
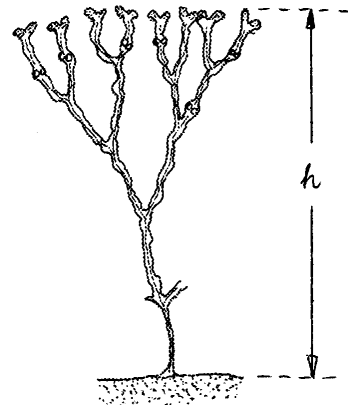
C 4 If you know area well indicate whether there was any visible algal blooms in water this spring or summer

Yes 2 1 1   No 2 1 1 2 Don´t know 3 2 2 3

**C 5** Indicate which of the animals listed you found live (L) or dead (D):

Jellyfish	Worms and wormcasts	Shellfish eg cockles, winkles	Crustaceans eg crabs	Fish	Seabirds	Seals	Dolphins	Rats

		L	D	L	D	L	D	L	D	L	D	L	D	L	D
3 1		1 1	335	11 1 1	11	11	1 32	145	2	1				1	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
How many of each? →								161 104 73	2					1	

C 6   Which of the following animals were you lucky to find along your part of the shore?
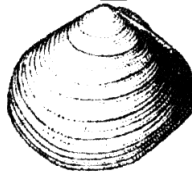
Blue mussel *Mytilus edulis*

3 1 2 none ☐ 51 3 a few ☐ many
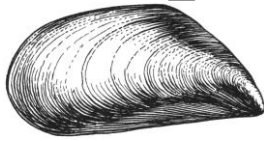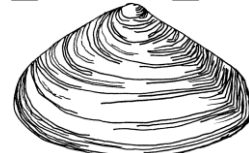

Length 1.5 – 10 cm

Baltic clam *Macoma baltica*

11 none ☐ 331 a few 1 2 3 many

Triangular shell

Mya arenaria

☐ 313 none ☐ 332 a few ☐ many

Oval, up to 12 cm long
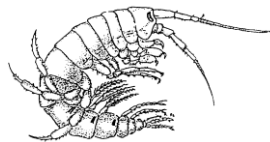
Common cockle *Cerastoderma glaucum*

☐ 21 2 none ☐ 4 3 3 a few ☐ many

Heart- shaped, transverse ridges

Gammarus sp.

☐ 4 2 4 none ☐ 3 a few 1 many

C 7   Did you find any visibly oiled birds (live or dead) during your survey?

How many live oiled birds? 0 0 0 How many dead oiled birds? 0 0 0

D   GENEARAL LITTERING

D 1 Tick any major item(s) found on your unit

Landfill materials (e.g. concrete, rubble, debris from sea defences etc.)	1	1 1
Large metal objects e.g. abandoned vehicles, girders (exclude bins)	2	1 0
Household furnishings (beds, carpets, pieces of furniture etc.)	3	1 1
Household refuse in bags or piles of rubbish	4	1 2 2
Ship wreckage or small metal parts of ship wreckage	5	0 1 0
Dumped crops (potatoes, onions etc.)	6	11 1

D 2 Please count each type of beverage container, can holders, tyres and plastic shopping bags found anywhere on the shore. If the number is too large to count, estimate it.

| Use dashed lines for tally IIII–III |

_10_____1__6_ ☐ **Glass bottles (drinks)**

_3_____1___7_ ☐ **Metal drinks container**

__6_____5__7__ ☐ **Plastic drinks containers**

__0_____0___2__ ☐ **Can holders**

___3_____0____3 ☐ **Paper or lined paper drinks containers**

___1_____1_0_ ☐ **Tyres** (Half a tyre or more = 1)

___14___4_____20___ ☐ **Plastic shopping bags**

D 3 Tick which of the following items of general litter or pollution you found on your unit:

Lost or discarded plastic fishing & aquaculture gear (nets, lines, bags)	1	1 1 5
Packing straps	2	2 2 1
Hard plastic containers (including crates)	3	0 1 5
Foamed polystyrene and polyurethane	4	0 0 4
Sanitary material (incl. condoms, sanitary towel)	5	10 0 0
Other plastics (not sanitary, bottles, bags, can holders, straps)	6	4 3 13
Tar, oil, petrol, diesel	7	0 0 0
Containers of potentially hazardous substance (chemicals etc.)	8	0 0 0
Textiles, shoes, gloves, items of clothing	9	7 1 5
Paper, cardboard, worked wood, vegetable waste	10	14 2 9
Food, fish waste and bones	11	0 1 3
Faeces (mammal incl. human)	12	1 0 3
Medical waste e.g. syringes, plasters	13	3 1 0
Glass (including light bulbs)	14	1 1 9
Cans (including non-hazardous spray cans, camping gas)	15	3 2 5

E GENERAL OBSERVATIONS

E 1 Has recent weather made the appearance of your coastal unit change?
Yes, it looks cleaner than usual   31 $_1$ Yes, looks worse than usual _21__ $_2$

No, recent weather is insignificant 11 3₃   Don't know   2   1 4

E 2   Has the beach been cleaned within the last week?

Yes _3__ ₁   No 43 1 ₂   Don't know 3 11 ₃

E 3   Is there any planned change of character (positive or negative) which is imminent for this coastal unit?

Yes ___ ₁   No 4 22 ₂   Don't know 2 2 3 ₃

E 4   If you have evidence of a serious risk or imminent planned change for the worse, please tick up to five boxes which describe the principal risk or imminent negative changes

Erosion	Beach mining	Construction	Dumping/ tipping	Water pollution	Recreational abuse	Other
1	1 2	3	4		1 1 0	11

Sewage	Radioactivity	Oil	Industry	Agriculture or industrial farming
1 5	6	7	8	9

E 5   Please enter an short comment or obser

Lihula
Rannik oli väga puhas ja prügi polnud.
Nägime lendamas sinikaelparte ja eemal ujus 2 kühmnokkluike, rannal õitses alss

Kadrina KK
Puhas rand, vesi ja õhk