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ANEMONE Study Areas' Common Assesment with the Nested Environmental status Assessment Tool (NEAT)

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Final Meeting - ANEMONE Project

4th – 5th of March 2021, On-line Meeting

About the NEAT

- The NEAT software is a flexible and user-friendly desktop application implementing the biodiversity assessment tool developed as an output of the DEVOTES project http://www.devotes-project.eu (Vers. 1.4)
- Method is hierarchical: nested structure of spatial assessment units and habitats.
- The order of these hierarchies is such that the assessment begins with the nested SAUs. (e.g. a regional sea or an individual bay)
- For each of these SAUs, one or more habitats can be assigned.
- Each of the habitats (or rather SAU/habitat combinations) is then used to assign various indicators which are often specific to individual species or biotic communities.
- Weighting procedure: to ensure no individual branch (SAUs, habitats,) dominates the others
- Aggregation: Measured values for each indicator at a common scale (5-class), class boundaries specific to an indicator
- NEAT value is the weighted average of all indicators belonging to a specific group with an uncertainty propagation

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NEAT practice in ANEMONE

- Istanbul workshop – training (June 2019)
- Institutional practices
- Data preparation for NEAT entries for hot spot and river coastal sites
- 1st trails and discussion in an online meeting (January 2021)
- Corrections/update of data entries by partners
- Running NEAT

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BACKGROUND FOR US

- DEVOTES training for TUBITAK and the Ministry by the TR partner of the Project (February 2017)
- DEVOTES NEAT Manual 1.4 (June 2019)
- Reading a series of scientific papers
- Preparation of a paper comparing different assessment tools incl. NEAT (2020-ongoing)

Borja et al., 2019; Pavlidou et. al, 2019; Nemati et al., 2018; Nemati et. al, 2017; Borja et. al., 2014.

Spatial Assessment Units : DT2.1_River_Sea

Black Sea

Romania

BLK_RO_RG_TTO3 (0-30m isobath)
BLK_RO_RG_MT01 (30m - 200m isobath)

Bulgaria

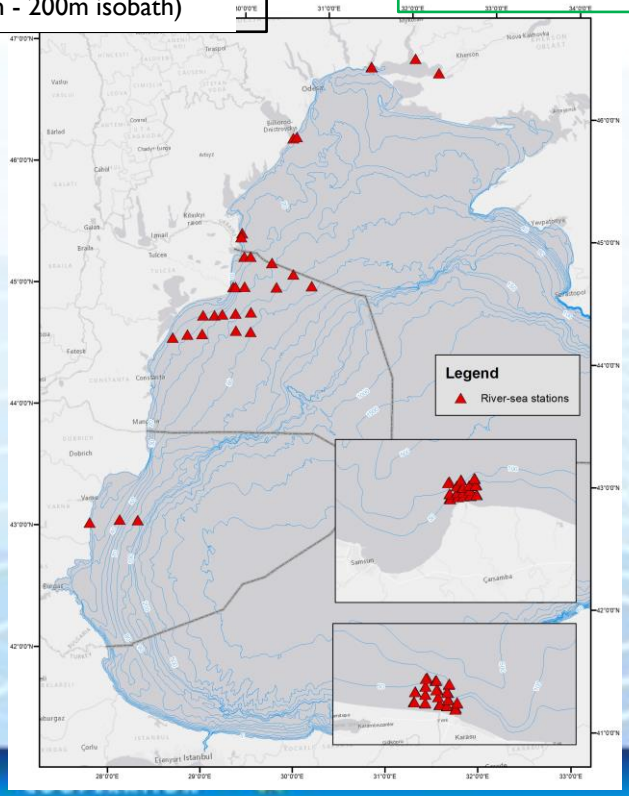
BLK_BG_1113-AA (0-30m isobath
BLK_BG_1006_AA (0-30m isobath)
BLK_BG_1007_AA (0-30m isobath)

Turkey

SRA-1 (0-40 m isobath)
SRA-OB-1 (> 40 m isobath)
YRA-1 (0-40 m isobath)
YRA-OB-1 (>40 m isobath)

Ukraine

CW1
CW4
CW7
TW5



Spatial Assessment Unit (SAU)	Area (km2)
BLK_RO_RG_TTO3 (0-30m isobath)	1359
BLK_RO_RG_CT (0-30m isobath)	1041
BLK_RO_RG_MT01 (30m isobath - 200m isobath)	20165
BLK_BG_1113-AA (0-30m isobath)	269
BLK_BG_1006_AA (0-30m isobath)	195
BLK_BG_1007_AA (0-30m isobath)	235
SRA-1 (0-40 m isobath)	16.72
SRA-OB-1 (> 40 m isobath)	15.22
YRA-1 (0-40 m isobath)	16.73
YRA-OB-1 (>40 m isobath)	41.1
CW1	29,6
CW4	47.1
CW7	1025.4
TW5	468,5

Spatial Assessment Units : DT2.2_Coastal

Black Sea

Romania

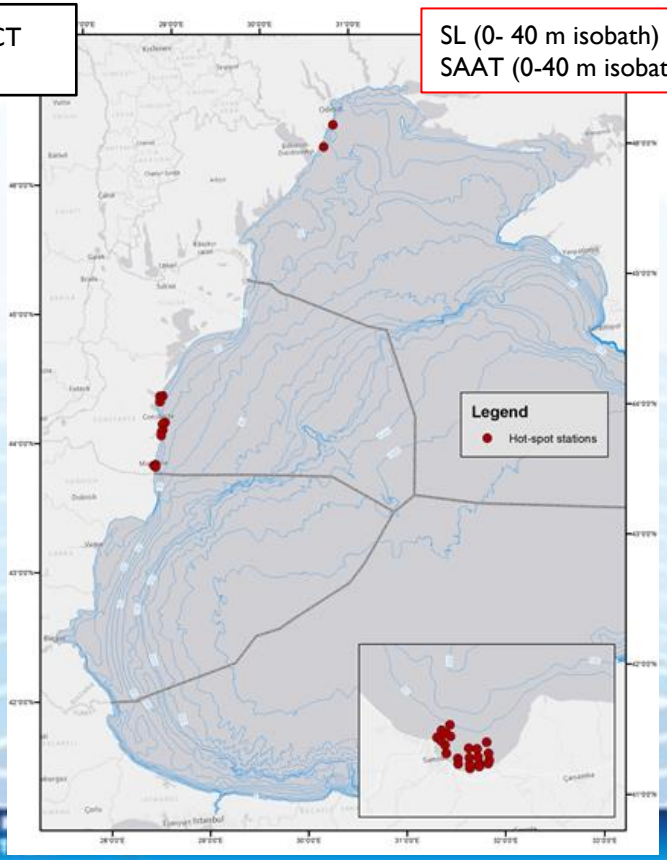
BLK_RO_RG_CT
(0-30m isobath)

Turkey

SL (0- 40 m isobath) : Coastal
SAAT (0-40 m isobath) : Coastal

Ukraine

ShW_UA_3
ShW_UA_2



Spatial Assessment Unit (SAU)	Area (km2)
BLK_RO_RG_CT (0-30m isobath)	1041
SL (0- 40 m isobath) : Coastal	20.47
SAAT (0-40 m isobath) : Coastal	19.52
ShW_UA_3	4871
ShW_UA_2	2799

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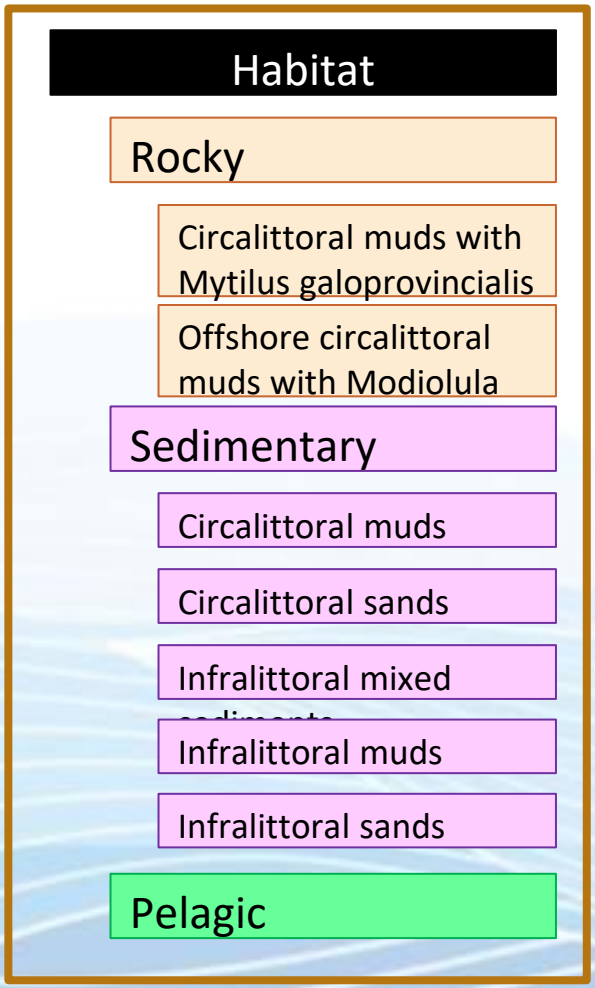
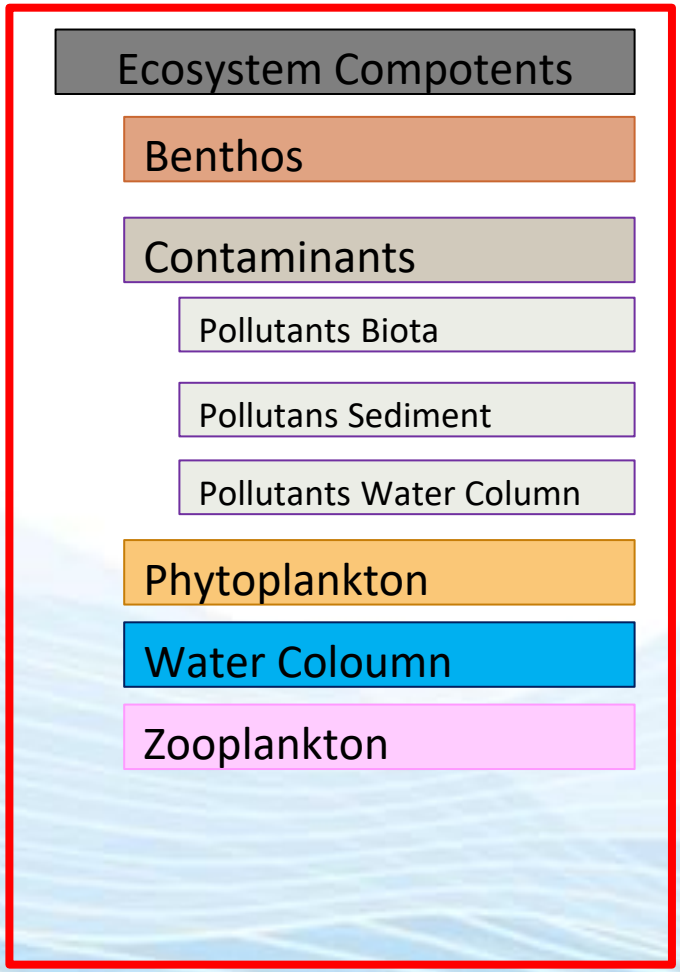
Habitat and Ecosystem Component for River Sea Interaction





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Habitat and Ecosystem Component for Coastal

Habitat

- Rocky
  - Circalittoral muds with Mytilus galoprovincialis
  - Offshore circalittoral muds with Modiolula
- Sedimentary
  - Circalittoral muds
  - Circalittoral sands
  - Infralittoral mixed sediments
  - Infralittoral muds
  - Infralittoral sands
- Pelagic

Ecosystem Compotents

- Benthos
  - Angiosperm
  - Benthic macroinvertebrates
  - MacroAlgea
- Contaminants
  - Pollutants Biota
  - Pollutans Sediment
  - Pollutants Water Column
- Phytoplankton
- Water Coloumn
- Zooplankton

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Indicators : DT2.1_River_Sea & coastal

Romania

Benthic : M-AMBI (n)
Phy: Biomass 90th percentile
Phy: Chlorophyll a 75th percentile
Zoo: Mesozooplankton biomass (warm season)
Zoo: Copepods biomass (warm season)
Zoo: The biomass of Mnemiopsis leidyi (warm season)
Zoo: Biopollution Index for Mnemiopsis leidyi (warm season)
Zoo: Blooms with Noctiluca scintillans (warm season)
WC: DIP
WC: NO3
WC: NO2
WC: DIN
WC: NH4

Contaminants: WC, Sediment, Biota

Season: Spring

Bulgaria

Phy: Chlorophyll a
Phy: Abundance
Phy: Biomass
Zoo: Mesozooplankton abundance
Zoo: Mesozooplankton biomass
Zoo: Mnemiopsis leidyi biomass
WC: N-NO_3
WC: N-NO_2
WC: N-NH_4
WC: P-PO_4
WC: Transparency

No Contaminants

Season: Summer
Autumn

Turkey

Benthic: M-AMBI
Benthic: TUBI
Phy: Chlorophyll-a 75th percentile
Phy: Biomass 90th percentile
Zoo: Mesozooplankton biomass
Zoo: Copepods biomass
WC: DIP
WC: Nox (NO_3+NO_2)
WC: DIN
WC: NH4
WC: Si
WC: TP
WC: Transparency

Contaminants: WC, Sediment, Biota

Season: Winter
Summer

Ukraine

Phy: Biomass
Zoo: N.scintillans biomass, %
Zoo: Copepoda biomass, %
Zoo: Shannon index (H)
Benthic: M-AMBI (n)
WC: (PO4)3
WC: TP
WC: (NO2)
WC: (NO3)
WC: (NH4)+
WC: DIN
WC: TN [mg/L]
WC: (SiO4)4

Contaminants: WC, Sediment, Biota

Season: Summer
Autumn

DT2.1 : Indicators – Contaminants: Water Column & Sediment

Water Column Contaminants

WC-Cu 75th percentile	RO	TR	
WC- Cd 75th percentile	RO	TR	UA
WC- Pb 75th percentile	RO	TR	UA
WC- Ni 75th percentile	RO	TR	UA
WC- Concentration of HCB	RO		UA
WC- Concentration of Lindane	RO	TR	UA
WC- Concentration of Heptachlor	RO	TR	UA
WC- Concentration of Sum of Cyclodiene pesticides	RO		UA
WC- Concentration of p,p' DDT	RO		UA
WC- Concentration of total DDT	RO	TR	UA
WC-Concentration of Naphtalene	RO	TR	UA
WC- Concentration of Anthracene	RO	TR	UA
WC- Concentration of Fluoranthene	RO	TR	UA
WC-Concentration of Benzo(b)fluoranthene	RO		UA
WC-Concentration of Benzo(k)fluoranthene	RO		UA
WC- Concentration of Benzo(a)pyrene	RO	TR	UA
WC-Concentration of Benzo(g,h,i) perylene	RO	TR	UA

Sediment Contaminants

SED-Cu 75th percentile	RO	TR	UA
SED- Cd 75th percentile	RO	TR	UA
SED- Pb 75th percentile	RO	TR	UA
SED-Ni 75th percentile	RO	TR	UA
SED-Cr 75th percentile	RO	TR	UA
SED-Concentration of HCB	RO		UA
SED-Concentration of Lindane	RO	TR	UA
SED-Concentration of Dieldrin	RO	TR	UA
SED-Concentration of p,p' DDE	RO	TR	
SED-Concentration of PCB 28	RO		
SED-Concentration of PCB 52	RO		
SED-Concentration of Naphtalene	RO	TR	UA
SED-Concentration of Acenaphthene	RO	TR	
SED-Concentration of Phenanthrene	RO	TR	UA
SED-Concentration of Anthracene	RO	TR	UA
SED-Concentration of Fluoranthene	RO	TR	UA
SED-Concentration of Piren	RO	TR	
SED-Concentration of Benzo(a)anthracene	RO	TR	UA
SED-Concentration of Chrysene	RO	TR	UA
SED-Concentration of Benzo(a)pyrene	RO	TR	UA
SED-Concentration of Benzo(g,h,i) perylene	RO	TR	UA
SED-Concentration of Indeno(1,2,3-c,d)pyrene	RO	TR	UA

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Indicators – Contaminants: Biota

Romania, Turkey

Biota- Cd 75th percentile in Mytilus galloprovincialis	RO	TR
Biota-Pb 75th percentile in Mytilus galloprovincialis	RO	TR
Cd 75th percentile in Rapana Venosa		TR
Pb 75th percentile in Rapana Venosa		TR
Biota-Concentration of HCB in Mytilus galloprovincialis	RO	
Biota-Concentration of Heptachlor in Mytilus galloprovincialis	RO	
Biota-Concentration of PCB 28 in Mytilus galloprovincialis	RO	
Biota-Concentration of PCB 52 in Mytilus galloprovincialis	RO	
Biota-Concentration of PCB 101 in Mytilus galloprovincialis	RO	
Biota-Concentration of PCB 118 in Mytilus galloprovincialis	RO	
Biota-Concentration of PCB 153 in Mytilus galloprovincialis	RO	
Biota-Concentration of PCB 138 in Mytilus galloprovincialis	RO	
Biota-Concentration of PCB 180 in Mytilus galloprovincialis	RO	
Biota-Concentration of Benzo[a]pyren in Mytilus galloprovincialis	RO	TR
Biota-Concentration of HCB in Mytilus galloprovincialis	RO	
Biota-Concentration of Heptachlor in Mytilus galloprovincialis	RO	
Biota-Concentration of Lindane in Mytilus galloprovincialis	RO	
Biota-Concentration of Aldrin in Mytilus galloprovincialis	RO	
Biota-Concentration of Dieldrin in Mytilus galloprovincialis	RO	
Biota-Concentration of Endrin in Mytilus galloprovincialis	RO	
Biota-Concentration of total DDT in Mytilus galloprovincialis	RO	
Biota-Concentration of Sum of six PCBs in Mytilus galloprovincialis	RO	TR
Biota-Concentration of Benzo[a]pyren in Mytilus galloprovincialis	RO	
Concentration of Benzo[a]pyren in Rapana Venosa		TR
Concentration of Sum of six PCBs in Rapana		TR

Ukraine

Biota-Contaminants	Kz Cu
Biota-Contaminants	Kz Zn
Biota-Contaminants	Kz Pb
Biota-Contaminants	Kz Cd
Biota-Contaminants	Kz Hg
Biota-Contaminants	Kz As
Biota-Contaminants	Kz Heptaclor
Biota-Contaminants	Kz HCB
Biota-Contaminants	Kz Sum PCB (28,52,101,138,153,180)
Biota-Contaminants	Kz Fluoranthene
Biota-Contaminants	Kz Benzo[a]pyrene

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Scenarios for River and Coastal

D.T. 2.1. River Sea Interaction

S1: All parameters and seasons
S2: All parametres and common seasong (RO: Spring, TR, BG, UK: Summer)

D.T. 2.1. Coastal

S1: All parameters and seasons

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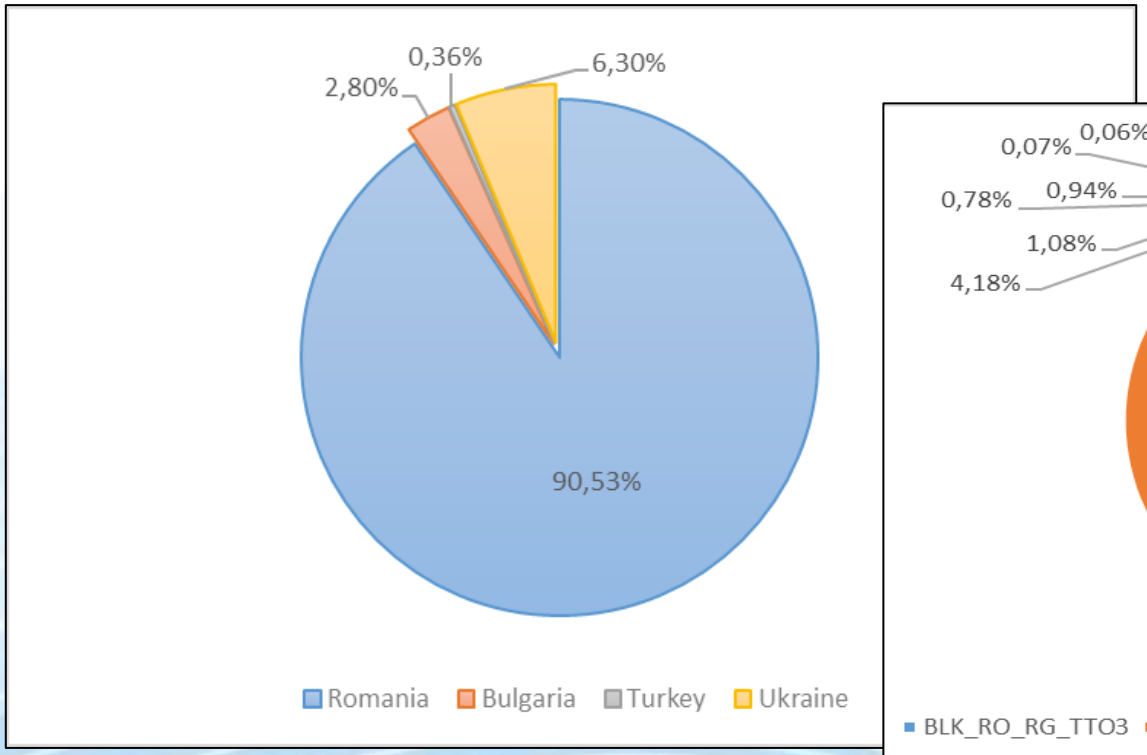
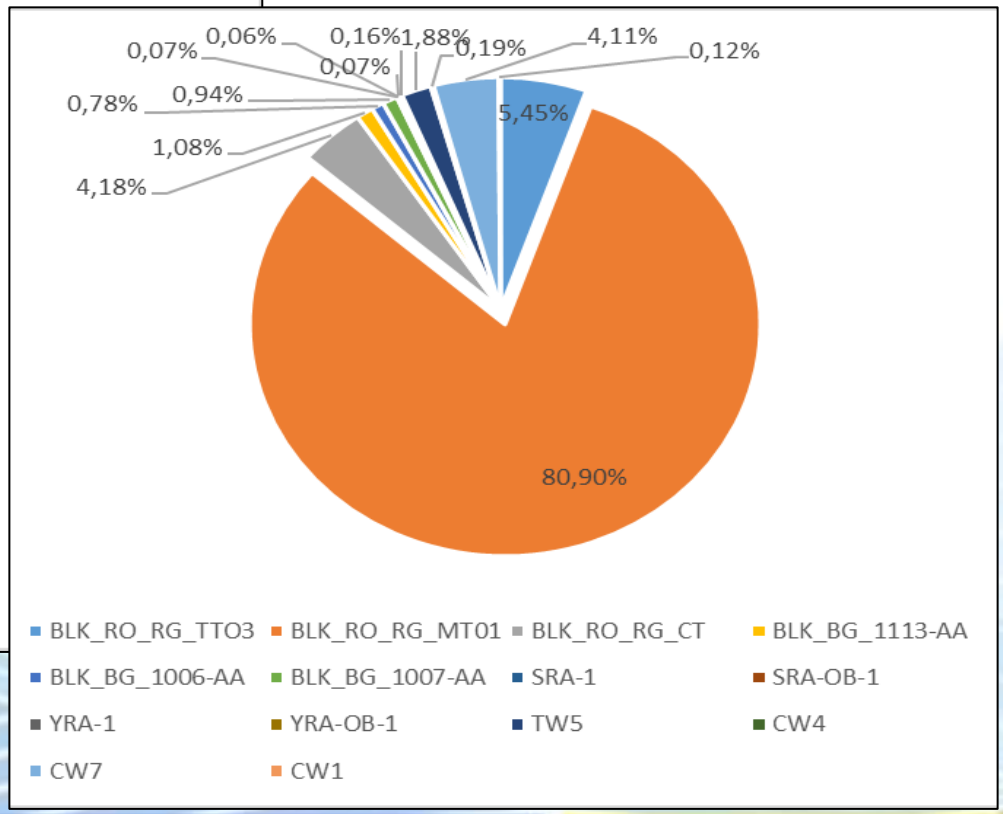
D.T.2.1 River Sea Interaction; SAU Area Distribution





D.T. 2.1. River Sea Interaction; S1: All Parameters and Seasons

Weight by SAU area

SAU	NEAT value	Confidence	WC	Phyto	Zoo	Benthos	Pollutant WC	Pollutants Sed.	Pollutants Biota
DT2.1_River_BS	0.737	100	0.539	0.635	0.748	0.685	0.739	0.859	0.847
Romania	0.733	100	0.435	0.626	0.739	0.686	0.734	0.870	0.848
BLK_RO_RG_TTO3	0.701	100	0.351	0.686	0.521	0.722	0.730	0.796	
BLK_RO_RG_MT01	0.747	100	0.445	0.821	0.752	0.682	0.734	0.876	0.848
BLK_RO_RG_CT	0.504	100		0.305		0.702			
Bulgaria	0.751	100	0.783	0.719	0.727				
BLK_BG_1113-AA	0.613	58,3	0.670	0.573	0.559				
BLK_BG_1006-AA	0.806	52,2	0.838	0.719	0.859				
BLK_BG_1007-AA	0.862	99,7	0.862	0.885	0.840				
Turkey	0.708	100	0.617	0.797	0.370	0.480	0.958	0.798	0.960
SRA-1	0.675	100	0.517	0.717	0.666	0.340	0.969	0.857	0.954
SRA-OB-1	0.689	100	0.473	0.677	0.620	0.430	0.984	0.864	
YRA-1	0.704	100	0.539	0.710	0.681	0.535	0.948	0.801	0.970
YRA-OB-1	0.730	100	0.737	0.901	0.048	0.532	0.946	0.756	
Ukraine	0.779	99,9	0.604	0.195	0.857		0.841	0.800	0.775
TW5	0.759	99,9	0.720	0.195	0.879		0.753	0.767	
CW4	0.811	61,2	0.721		0.897		0.784	0.843	
CW7	0.787	97,6	0.492		0.837		0.856	0.813	
CW1	0.780	79,3						0.825	0.775

NEAT Classification Colour					
0,8	1	Best	0,4	0,6	Modarate
0,6	0,8	Good	0,2	0,4	Poor
			0	0,2	Bad

Moderate / Good
Confidance Level

D.T. 2.1. River Sea Interaction; S1: All Parameters and Seasons

Do Not Weight by SAU area

SAU	NEAT valu	Confidence	WC	Phyto	Zoo	Benthos	Pollutant WC	Pollutants Sed.	Pollutants Biota
DT2.1_River_BS	0.724	100	0.697	0.593	0.744	0.597	0.838	0.815	0.797
Romania	0.651	100	0.385	0.367	0.644	0.703	0.732	0.832	0.848
BLK_RO_RG_TTO3	0.701	100	0.351	0.686	0.521	0.722	0.730	0.796	
BLK_RO_RG_MT01	0.747	100	0.445	0.821	0.752	0.682	0.734	0.876	0.848
BLK_RO_RG_CT	0.504	100		0.305		0.702			
Bulgaria	0.761	99,4	0.792	0.725	0.742				
BLK_BG_1113-AA	0.613	56,2	0.670	0.573	0.559				
BLK_BG_1006-AA	0.806	52	0.838	0.719	0.859				
BLK_BG_1007-AA	0.862	100	0.862	0.885	0.840				
Turkey	0.699	100	0.569	0.755	0.496	0.460	0.963	0.817	0.960
SRA-1	0.675	100	0.517	0.717	0.666	0.340	0.969	0.857	0.954
SRA-OB-1	0.689	100	0.473	0.677	0.620	0.430	0.984	0.864	
YRA-1	0.704	100	0.539	0.710	0.681	0.535	0.948	0.801	0.970
YRA-OB-1	0.730	100	0.737	0.901	0.048	0.532	0.946	0.756	
Ukraine	0.784	100	0.661	0.195	0.871		0.810	0.808	0.775
TW5	0.759	99,9	0.720	0.195	0.879		0.753	0.767	
CW4	0.811	60	0.721		0.897		0.784	0.843	
CW7	0.787	97	0.492		0.837		0.856	0.813	
CW1	0.780	81,5						0.825	0.775

NEAT Classification Colour					
0,8	1	Best	0,4	0,6	Modarate
0,6	0,8	Good	0,2	0,4	Poor
			0	0,2	Bad

D.T. 2.1. River Sea Interaction; S2: All Parameters and Common Seasons

Weight by SAU area

SAU	NEAT value	Confidence	WC	Phyto	Zoo	Benthos	Pollutant WC	Pollutants Sed.	Pollutants Biota
DT2.1_River_BS	0.736	100	0.549	0.633	0.753	0.685	0.736	0.856	0.848
Romania	0.733	100	0.435	0.626	0.739	0.686	0.734	0.870	0.848
BLK_RO_RG_TTO3	0.701	100	0.351	0.686	0.521	0.722	0.730	0.796	
BLK_RO_RG_MT01	0.747	100	0.445	0.821	0.752	0.682	0.734	0.876	0.848
BLK_RO_RG_CT	0.504	100		0.305		0.702			
Bulgaria	0.751	99,9	0.783	0.719	0.727				
BLK_BG_1113-AA	0.613	56	0.670	0.573	0.559				
BLK_BG_1006-AA	0.806	51,9	0.838	0.719	0.859				
BLK_BG_1007-AA	0.862	99,8	0.862	0.885	0.840				
Turkey	0.713	100	0.501	0.721	0.370	0.480	0.957	0.798	0.960
SRA-1	0.699	100	0.462	0.630	0.666	0.340	0.968	0.857	0.954
SRA-OB-1	0.716	100	0.423	0.622	0.620	0.430	0.984	0.864	
YRA-1	0.721	99,9	0.426	0.565	0.681	0.535	0.947	0.801	0.970
YRA-OB-1	0.715	100	0.570	0.852	0.048	0.532	0.945	0.756	
Ukraine	0.776	99,5	0.700	0.195	0.859		0.766	0.789	
TW5	0.749	99,5	0.701	0.195	0.876		0.634	0.804	
CW4	0.819	79	0.459		0.824		0.860	0.858	
CW7	0.787	88,8	0.711		0.854		0.785	0.779	

NEAT Classification Colour					
0,8	1	Best	0,4	0,6	Modarate
0,6	0,8	Good	0,2	0,4	Poor
			0	0,2	Bad

D.T. 2.1. River Sea Interaction; S2: All Parameters and Common Seasons

Do Not Weight by SAU area

SAU	NEAT value	Confidence	WC	Phyto	Zoo	Benthos	Pollutant WC	Pollutants Sed.	Pollutants Biota
DT2.1_River_BS	0.727	100	0.691	0.580	0.750	0.597	0.845	0.817	0.904
Romania	0.651	100	0.385	0.367	0.644	0.703	0.732	0.832	0.848
BLK_RO_RG_TTO3	0.701	100	0.351	0.686	0.521	0.722	0.730	0.796	
BLK_RO_RG_MT01	0.747	100	0.445	0.821	0.752	0.682	0.734	0.876	0.848
BLK_RO_RG_CT	0.504	100		0.305		0.702			
Bulgaria	0.761	99,1	0.792	0.725	0.742				
BLK_BG_1113-AA	0.613	58,1	0.670	0.573	0.559				
BLK_BG_1006-AA	0.806	52,9	0.838	0.719	0.859				
BLK_BG_1007-AA	0.862	100	0.862	0.885	0.840				
Turkey	0.713	100	0.473	0.669	0.496	0.460	0.962	0.817	0.960
SRA-1	0.699	100	0.462	0.630	0.666	0.340	0.968	0.857	0.954
SRA-OB-1	0.716	100	0.423	0.622	0.620	0.430	0.984	0.864	
YRA-1	0.721	100	0.426	0.565	0.681	0.535	0.947	0.801	0.970
YRA-OB-1	0.715	100	0.570	0.852	0.048	0.532	0.945	0.756	
Ukraine	0.785	99,5	0.648	0.195	0.858		0.801	0.813	
TW5	0.749	99,4	0.701	0.195	0.876		0.634	0.804	
CW4	0.819	77,4	0.459		0.824		0.860	0.858	
CW7	0.787	87,8	0.711		0.854		0.785	0.779	

NEAT Classification Colour					
0,8	1	Best	0,4	0,6	Modarate
0,6	0,8	Good	0,2	0,4	Poor
			0	0,2	Bad

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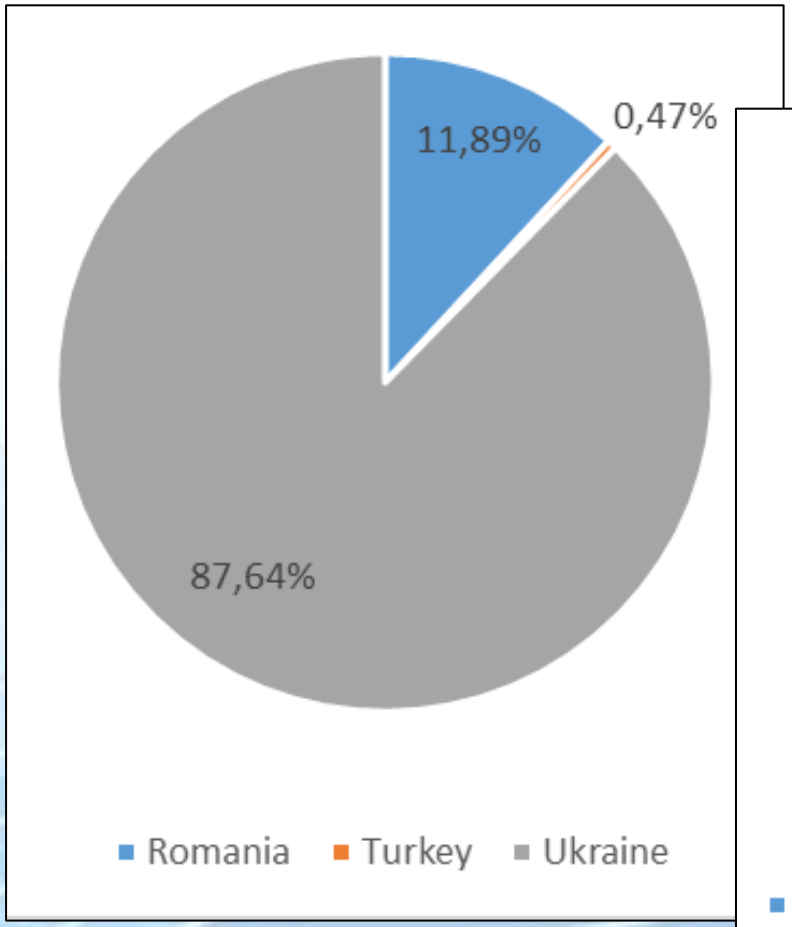
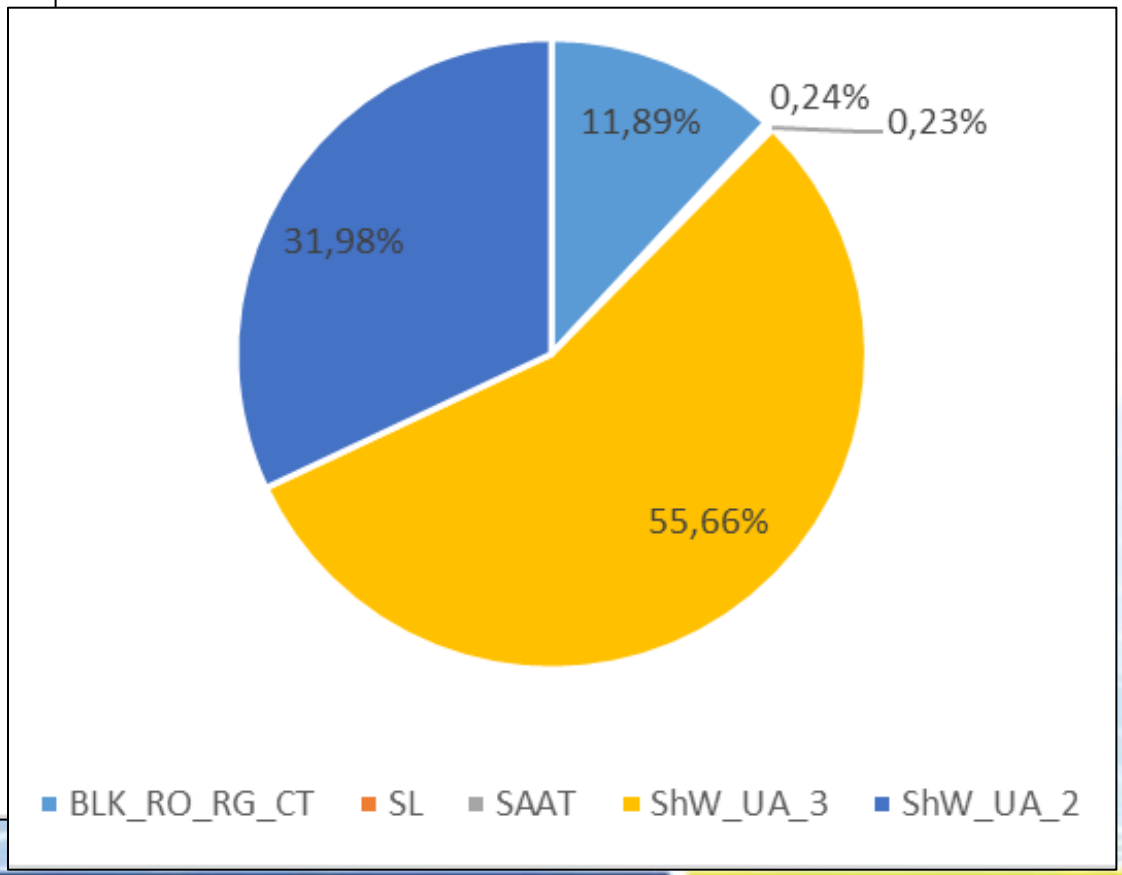
D.T. 2.2. Coastal; SAU Area Distribution





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D.T. 2.2. Coastal; S1: All Parameters and Seasons

Weight by SAU area

SAU	NEAT value	Confidence	WC	Phyto	Zoo	Pollutant WC	Pollutants Sed.	Pollutants Biota	MacroAlgea	Anigosperm	Benthic macroinvertebrates
DT2.1_Coastal_BS	0.770	100	0.834	0.504	0.904	0.812	0.693	0.742	0.450	0.647	0.674
Romania	0.698	100	0.352	0.502	0.848	0.724	0.825	0.864	0.464	0.647	0.709
BLK_RO_RG_CT	0.698	100	0.352	0.502	0.848	0.724	0.825	0.864	0.464	0.647	0.709
Turkey	0.692	100	0.745	0.560	0.602	0.945	0.798		0.255		0.480
SL	0.754	100	0.825	0.633	0.653	0.979	0.799		0.496		0.513
SAAT	0.626	91,3	0.658	0.482	0.546	0.911	0.797		0.001		0.446
Ukraine	0.780	100	0.858		0.923	0.823	0.684	0.724			0.629
ShW_UA_3	0.718	100	0.720		0.923	0.852	0.541	0.724			0.629
ShW_UA_2	0.888	63,4	0.921			0.771	1000				

NEAT Classification Colour					
0,8	1	Best	0,4	0,6	Modarate
0,6	0,8	Good	0,2	0,4	Poor
			0	0,2	Bad

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D.T. 2.2. Coastal; S1: All Parameters and Seasons

Do Not Weight by SAU area

SAU	NEAT value	Confidence	WC	Phyto	Zoo	Pollutant WC	Pollutants Sed.	Pollutants Biota	MacroAlgea	Anigosperm	Benthic macroinvertebrates
DT2.1_Coastal_BS	0.730	100	0.751	0.533	0.791	0.812	0.780	0.806	0.325	0.647	0.580
Romania	0.698	100	0.352	0.502	0.848	0.724	0.825	0.864	0.464	0.647	0.709
BLK_RO_RG_CT	0.698	100	0.352	0.502	0.848	0.724	0.825	0.864	0.464	0.647	0.709
Turkey	0.690	100	0.743	0.558	0.600	0.944	0.798		0.249		0.479
SL	0.754	100	0.825	0.633	0.653	0.979	0.799		0.496		0.513
SAAT	0.626	91,4	0.658	0.482	0.546	0.911	0.797		0.001		0.446
Ukraine	0.803	89,3	0.879		0.923	0.812	0.743	0.724			0.629
ShW_UA_3	0.718	100	0.720		0.923	0.852	0.541	0.724			0.629
ShW_UA_2	0.888	63	0.921			0.771	1000				

NEAT Classification Colour					
0,8	1	Best	0,4	0,6	Modarate
0,6	0,8	Good	0,2	0,4	Poor
			0	0,2	Bad

Overall Results

D.T. 2.1. River Sea Interaction

SAU	WSAU		DNWSAU	
	S1	S2	S1	S2
BS : ALL SAU	0.737	0.736	0.724	0.727
Romania	0.733	0.733	0.651	0.651
BLK_RO_RG_TTO3	0.701	0.701	0.701	0.701
BLK_RO_RG_MT01	0.747	0.747	0.747	0.747
BLK_RO_RG_CT	0.504	0.504	0.504	0.504
Bulgaria	0.751	0.751	0.761	0.761
BLK_BG_1113-AA	0.613	0.613	0.613	0.613
BLK_BG_1006-AA	0.806	0.806	0.806	0.806
BLK_BG_1007-AA	0.862	0.862	0.862	0.862
Turkey	0.708	0.713	0.699	0.713
SRA-1	0.675	0.699	0.675	0.699
SRA-OB-1	0.689	0.716	0.689	0.716
YRA-1	0.704	0.721	0.704	0.721
YRA-OB-1	0.730	0.715	0.730	0.715
Ukraine	0.779	0.776	0.784	0.785
TW5	0.759	0.749	0.759	0.749
CW4	0.811	0.819	0.811	0.819
CW7	0.787	0.787	0.787	0.787
CW1	0.780		0.780	

D.T. 2.2. Coastal

SAU	WSAU	DNWSAU
	S1	S1
DT2.1_Coastal_BS	0.770	0.730
Romania	0.698	0.698
BLK_RO_RG_CT	0.698	0.698
Turkey	0.692	0.690
SL	0.754	0.754
SAAT	0.626	0.626
Ukraine	0.780	0.803
ShW_UA_3	0.718	0.718
ShW_UA_2	0.888	0.888

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REMARKS

- A learning exercise – a good opportunity to practise at regional scale and to improve the common learning
- Easy to establish errors while making entries manually. Needs to modify (more than 800 for river-sea and about 300 for coastal just for restricted sites of Anemone)
- A better assessment could be achieved if SAUs were comparable to represent the region, number of common indicators were more, class boundaries were set more reliably, ...
- A pre-analysis of pressures especially for large areas might help to set sub-SAUs and hence improve the nesting procedure.

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Thank you!