Use of SCN features: Yes

Max learning objects: 20000 objects/class Strategy N° 2

Actual Values

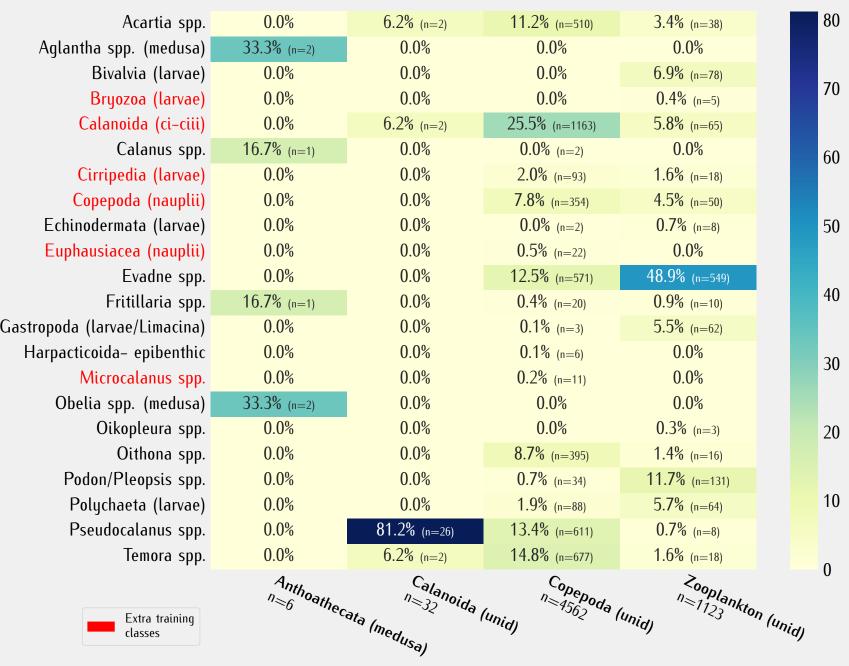
NL 2020 Selected Samples prediction using NL 2020 training set, Learning with all classes present in the selected samples, with extra training categories, No Anthoathecata, Calanoida, Copepoda, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value																															
Temora spp.	53%	8%	3%	17%		<1%		2%				<1%				<1%	<1% <1%	6			<1%			12%	1%	2%	<1%		<1%		
Acartia spp.	18%	58%	1%	9%				2%				<1%					<1% <1%	б			<1%			8%	<1%	1%	<1%		<1%		
Evadne spp.	<1%	<1%	93%	<1%		2%	<1%	<1%	<1%								<19	б			<1%		<1%	2%	1%	<1%					
Pseudocalanus spp.	29%	16%	<1%	46%				<1%				<1%	<1%				<1%				<1%			7%	<1%	<1%	<1%		<1%		
Centropages spp.	21%	73%		2%	2%								<1%							<1%					<1%	<1%					
Podon/Pleopsis spp.	21%		12%	4%		9%							<1%								25%			4%	8%	17%					
Eurytemora spp.	12%	11%	4%	2%				13%																49%		7%					
Gastropoda (larvae/Limacina)			12%			24%	33%		14%												12%					4%					
Oithona spp.		4%	4%					87%									1%				1%		1%	2%							
Bivalvia (larvae)							18%		82%																						
Oikopleura spp.	1%	1%								73%			1%	3%	б		20%														
Hydrozoa (medusa)	3%		14%			2%					2%		3%			28%	3%			14%	12%				16%	3%					
Harpacticoida- epibenthic	10%	12%		30%				2%				24%												18%				2%	2%		
Calanus spp.	4%	4%		8%									84%																		
Chaetognatha				7%						13%				809	%																
Chiridius spp.	14%			57%									29%																		
Aglantha spp. (medusa)													10%			80%				10%											
Fritillaria spp.								14%									71%							14%							
Echinodermata (larvae)			20%			20%		20%									40%														Dec
Metridia spp.				50%									50%																		Dec
Decapoda-non brachyura (larvae)													100%																		
Cnidaria (larvae)																				4000						50%					
Obelia spp. (medusa)				4000																100%											
Polychaeta (larvae)				100%									4000																		
Amphipoda Tomontorio con		100%											100%																		
Tomopteris spp.		100%	\\ \tilde{\chi_k}	Q	Co	\\ \triangle \(\lambda \)		Q:	S _i	0;,	4.	4	C ₄	Q	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	40,	\$: \$, 4, 0) }	0,	D ₀	1 ₂₂	S.	Car	C;	C	4.	<i>₹.</i>	Ć,		
	Mo	Acarto Spp.	12 DD.	PS CITE	Jocalani,	Podon/Pl	Curytemora St.	opoda (Bivally Spp.	Oikol land	Velled St.	o dra	Acticoida		Retognatha	Tils Sp.	the Sp. S	Sinodernals	Ecapoda no	ria lan	Spp. (p.	Amphipoda (lanae)	Poris Sp.	Calando (lana)	oida (ci	dia (la	Doda (no	realanus	Pholosiacea	Islaced (
Tendra startic sales Selected Control of the Cost of the Control of the Cost o																															
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															Predic	cted \	/alues													sses	

Classification Report Matrix

ma		ation Repo earning obj	rt Matrix ects per cla	ISS
	precision	recall	f1-score	
Temora spp. (n=18103-train=5148)	0.74	0.53	0.62	
Acartia spp. (n=13302-train=5448)	0.77	0.58	0.66	
Evadne spp. (n=5228-train=2845)	0.86	0.93	0.89	
Pseudocalanus spp. (n=3053-train=4552)	0.24	0.46	0.32	
Centropages spp. (n=330-train=40)	1.00	0.02	0.04	
Podon/Pleopsis spp. (n=253-train=201)	0.17	0.09	0.12	
Eurytemora spp. (n=178-train=88)	0.00	0.00	0.00	1.
Gastropoda (larvae/Limacina) (n=112-train=110)	0.49	0.33	0.40	
Oithona spp.	0.11	0.87	0.19	
(n=98-train=1409) Bivalvia (larvae)	0.77	0.82	0.79	
(n=92-train=71) Oikopleura spp.	0.96	0.73	0.83	0.
(n=70-train=761) Hydrozoa (medusa)	1.00	0.02	0.03	
(n=64-train=21) Harpacticoida- epibenthic	0.39	0.24	0.30	
(n=50-train=136) Calanus spp. (n=25 train=212)	0.57	0.84	0.68	
(n=25-train=213) Chaetognatha	0.86	0.80	0.83	
(n=15-train=67) Chiridius spp.	0.00	0.00	0.00	0.
(n=14-train=1) Aglantha spp. (medusa)	0.30	0.80	0.43	
(n=10-train=21) Fritillaria spp.	0.05	0.71	0.10	
(n=7-train=3447) Echinodermata (larvae)	0.00	0.00	0.00	
(n=5-train=276) Metridia spp.	0.00	0.00	0.00	
(n=2-train=15) Decapoda-non brachyura (larvae)	0.00	0.00	0.00	0.
(n=2-train=7) Cnidaria (larvae)	0.00	0.00	0.00	
(n=2-train=3) Obelia spp. (medusa)	0.08	1.00	0.15	
(n=1-train=43) Polychaeta (larvae)	0.00	0.00	0.00	
(n=1-train=452) Amphipoda	0.00	0.00	0.00	0.
(n=1-train=1) Tomopteris spp.	0.00	0.00	0.00	
(n=1-train=1) Bryozoa (larvae)	_	_	_	
(n=0-train=119) Calanoida (ci-ciii)	_	_	_	
(n=0-train=3713) Cirripedia (larvae)	_	_	_	
(n=0-train=611) Copepoda (nauplii)	_	_	_	0.
(n=0-train=1025) Microcalanus spp.	_	_	_	
(n=0-train=80) Euphausiacea (larvae)	_	_	_	
(n=0-train=75) Euphausiacea (nauplii)	_	_	_	
(n=0-train=122) macro avg (corr)	0.36	0.38	0.28	
weighted avg	0.72	0.58	0.63	
	precision	recall	f1-score	
	-			

Predictions of discarded taxa from training



Predicted Taxa

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample Val Pred 1.0 -0.8 -Relative Abundance 0.4 0.2 -0.0 S25 S21 S22 S23 S24 S26 S27 S28 S29 S30

Sample Short ID

