Use of SCN features: Yes

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

Actual Values

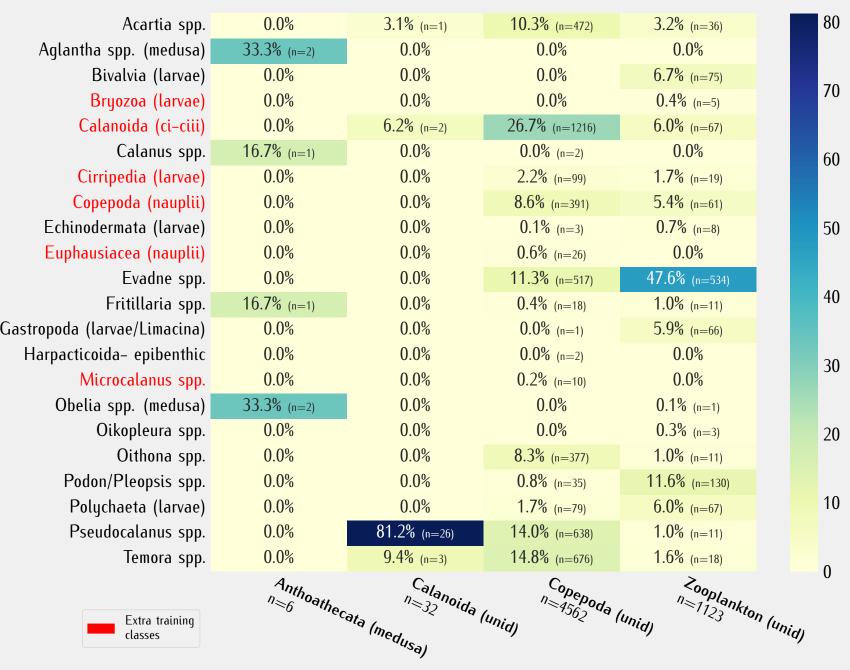
NL 2020 Selected Samples prediction using NL 2020 training set, Learning with all classes present in the selected samples, with extra training categories, No Anthoathecata, Calanoida, Copepoda, Zooplankton classes in learning set

													Conf	usio	n M	atrix	k – Ir	n per	cent	of A	\ctua	l Value												
Temora spp.	53%	8%	39	ó 1	17%		<1%			2%			•	<1%				<1%	<1%	<1%				<1%			13%	1%	2%	<1%	<1%	<1%		
Acartia spp.	18%	56%	k <1	% 1	0%					2%				<1%					<1%	<1%				<1%			9%	<1%	1%	<1%		<1%		
Evadne spp.	<19	<19	% 92	% <	<1%		2%		<1%	<1%	<1%									<1%				<1%		<1	% 2%	2%	1%	<1%				
Pseudocalanus spp.	30%	16%	<1	% 4	16%					<1%				<1%	<1%				<1%					<1%			7%	<1%	<1%	<1%		<1%		
Centropages spp.	21%	73%	6		2%	3%								•	<1%								<1%						<1%					
Podon/Pleopsis spp.	20%	i	11	% 4	4%		11%							<	<1%					<1%				26%			4%	8%	17%					
Eurytemora spp.	12%	12%	8 39	ó '	4%					12%																	49%		7%					
Gastropoda (larvae/Limacina)			12	%			27%		31%		12%													13%					4%					
Oithona spp.		5%	49	ó	1%					85%									2%	1%							2%							
Bivalvia (larvae)									18%		82%																							
Oikopleura spp.	1%	1%	;									71%			1%	1%			23%															
Hydrozoa (medusa)	3%		16	%									2%		3%			25%	3%				16%	14%				16%	3%					
Harpacticoida- epibenthic	10%	14%	ó	3	34%					2%				20%										2%			12%		2%		2%	2%		
Calanus spp.					16%										84%																			
Chaetognatha					7%							20%				73%																		
Chiridius spp.				5	50%								4.00		29%			6.00					4.00					14%						
Aglantha spp. (medusa)										4.40.			10%		20%			60%	740.				10%				4.40.							
Fritillaria spp.			20	0,			20%			14% 20%									71%								14%							
Echinodermata (larvae) Metridia spp.			20		50%		20%			20%					50%				20%								20%							De
Decapoda-non brachyura (larvae))U/0									_	100%																			
Cnidaria (larvae)		(100/0														50%					
Obelia spp. (medusa)																							100%											
Polychaeta (larvae)				10	00%																													
Amphipoda														1	100%																			
Tomopteris spp.		100	%																															
	Ten	Acc	Prz.		D Sell	Cenz	Podo	Curu	Cash	Oith	Biral	Oiton	Hydr	Harp	Calar	Chap	Chiri	Aglan	Fritis	Chin	Not.	Deca. Ch	ig Obe	Polyo	Amph.	Tomo.	yo Cala	Cirr	Cope	Nic,	Cupp	Euph		
		Nord Spp.			PSEUDO SPP.	ocalani,	Podol S.	Curyre Opp.	onor S	Opoda (Oikoph Via (larvae)	Hydrox Spp.	od men	Calanticoida	15 200	Chiria ognatha	Aglan, Spp.	1/10 TO		Odermala	Spp.	Ton lar		Amphipolical and	Tomopteris	Motor Calcalosopp	Toida (ipedia (lai	Micro	Calanus	Pusiacea	isiacea (
							S00.	% ,	20	N,	"Nac//	Oikople (larvae)	·) 2.	4	(50)	Pibel	Chiride Chiride Chiride Chiride Chiride Chirice Chirical Chirice Chirice Chirice Chirice Chirice Chirice Chirice Chirical Chirice Chirical Chirice Chirical			Chine (medusa)))	Decapoda, lange,	brachy	(4) "	edisa)	Pe)	~.	·9/	(ii)	de	Plij	Pp. 1	lande (nauplii)	,
												Cinal					(C							(lane										
																F	redic	cted V	/alue	S													tra ining sses	
																•	3.00		, 5. 0															

Classification Report Matrix max available learning objects per class

max	avallable	tearning of	ojects per d
	precision	recall	f1-score
Temora spp. (n=18103-train=5148)	0.73	0.53	0.61
Acartia spp. (n=13302-train=5448)	0.77	0.56	0.65
Evadne spp. (n=5228-train=2845)	0.88	0.92	0.90
Pseudocalanus spp. (n=3053-train=4552)	0.23	0.46	0.31
Centropages spp. (n=330-train=40)	1.00	0.03	0.06
Podon/Pleopsis spp. (n=253-train=201)	0.17	0.11	0.13
Eurytemora spp. (n=178-train=88)	0.00	0.00	0.00
Gastropoda (larvae/Limacina) (n=112-train=110)	0.49	0.31	0.38
Oithona spp. (n=98-train=1409)	0.11	0.85	0.19
Bivalvia (larvae) (n=92-train=71)	0.79	0.82	0.80
Oikopleura spp. (n=70-train=761)	0.94	0.71	0.81
Hydrozoa (medusa) (n=64-train=21)	0.50	0.02	0.03
Harpacticoida- epibenthic (n=50-train=136)	0.34	0.20	0.25
Calanus spp. (n=25-train=213)	0.57	0.84	0.68
Chaetognatha (n=15-train=67)	0.92	0.73	0.81
Chiridius spp. (n=14-train=1)	0.00	0.00	0.00
Aglantha spp. (medusa) (n=10-train=21)	0.26	0.60	0.36
Fritillaria spp. (n=7-train=3447)	0.06	0.71	0.10
Echinodermata (larvae) (n=5-train=276)	0.00	0.00	0.00
Metridia spp. (n=2-train=15)	0.00	0.00	0.00
ecapoda-non brachyura (larvae) (n=2-train=7)	0.00	0.00	0.00
Cnidaria (larvae) (n=2-train=3)	0.00	0.00	0.00
Obelia spp. (medusa) (n=1-train=43)	0.08	1.00	0.14
Polychaeta (larvae) (n=1-train=452)	0.00	0.00	0.00
Amphipoda (n=1-train=1)	0.00	0.00	0.00
Tomopteris spp. (n=1-train=1)	0.00	0.00	0.00
Bryozoa (larvae) (n=0-train=119)	_	-	_
Calanoida (ci-ciii) (n=0-train=3713)	_	-	_
Cirripedia (larvae) (n=0-train=611)	_	-	_
Copepoda (nauplii) (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)	0.34	0.36	0.28
weighted avg	0.72	0.57	0.62
	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

