Use of SCN features: No

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

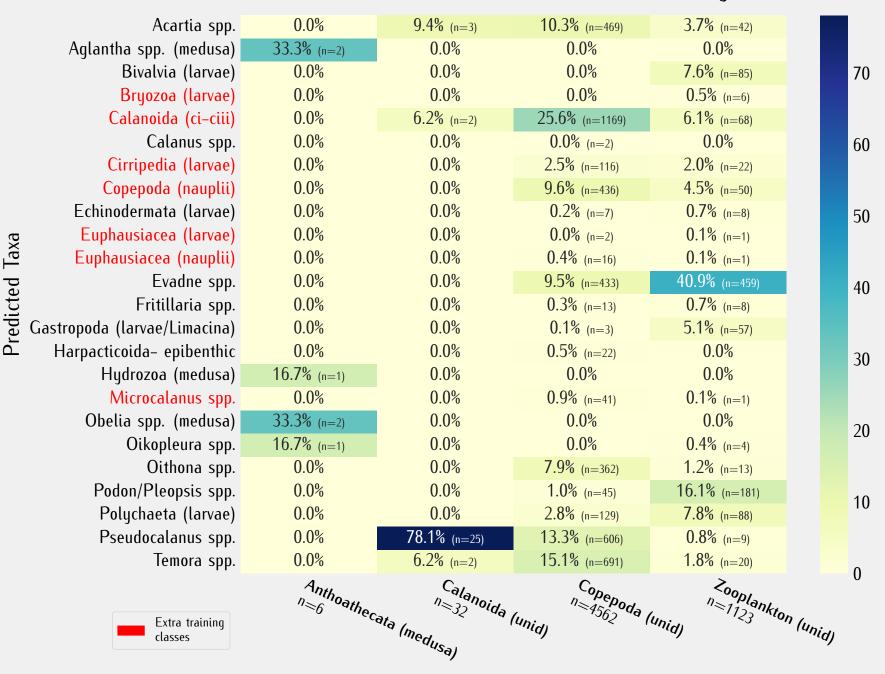
Confusion Matrix – In percent of Actual Value

											(Confusi	on N	1atr	ix – In	n per	cent	of A	ctuá	al Value											
Temora spp.	52%	9%	2%	17%		<1%			2%			<1%					<1%	<1%				1%			11%	2%	3%	<1%	•	<1%	
Acartia spp.	23%	52%	<1%	10%		<1%			2%		<1%	<1%					<1%	<1%			<	<1%			9%	<1%	1%	<1%		<1%	
Evadne spp.	<1%	<1%	89%	<1%		3%		<1%	<1%	<1%							<	<1%			<	<1%		<1	% 2%	2%	2%	<1%			
Pseudocalanus spp.	30%	15%	<1%	46%		<1%			<1%			<1%	<1%				<1%				<	<1%			8%	<1%	<1%	<1%		<1%	
Centropages spp.	24%	65%		5%	5%		<1%					<1%														<1%			<1%		
Podon/Pleopsis spp.	21%		9%	3%		10%							<1%				<	<1%			3	31%			4%	8%	11%	1%			
Eurytemora spp.	12%	8%	4%	3%		<1%			16%																49%		6%			<1%	
Gastropoda (larvae/Limacina)			6%			31%		33%		11%											1	14%			<1%		4%				
Oithona spp.		5%	3%						84%			1%					2%					1%			4%						
Bivalvia (larvae)								8%		92%																					
Oikopleura spp.	1%	1%									70%		1%	3%			23%														
Hydrozoa (medusa)	3%	3%	9%								8	3%	2%			23%	2%				22% 1	19%			2%	6%	2%				
Harpacticoida- epibenthic	6%	12%		28%					2%			28%										4%			16%		2%		2%		
Calanus spp.				16%									80%						4%												
Chaetognatha				7%										67%									27%								
Chiridius spp.	14%			43%									29%													14%					
Aglantha spp. (medusa)											30	0%				40%					20%		10%								
Fritillaria spp.									14%								71%								14%						
Echinodermata (larvae)			20%			20%			20%								20%								20%						
Metridia spp.				50%									50%																		
capoda-non brachyura (larvae)													100%																		
Cnidaria (larvae)	50%																										50%				
Obelia spp. (medusa)																					100%										
Polychaeta (larvae)				100%																											
Amphipoda													100%																		
Tomopteris spp.											100%																				
	Temo	Acap Spp.	Tio Spp.	Pseul Pp.	Centi docalant	Podo.	Cury, Sp.	Castle Moral St. Spp.	Oitho Opoda (Bival Spp. Janaell	Oikopleul (larvae) inacina)	Hydrozog (11)	Calar	Che Che Spy	Senthic	Aglann, Spp.	Pritillan Sp. (Schine (medusa)	Metric Metrology	Decapoda non a larae	Obelia Chyur	Polych (n)	Amphipolise (larro	Tomopleris	Hozoa (la)	Cirrinoida (C	Copedia (la Cicii)	Microla (national)	Euphali, St.	Euphause Siacea (la	idea (naupli
											cina)				% Predict						ç	Mana								Extra train class	a ning

Classification Report Matrix max 20000 learning objects per class

ma	x 20000 le	arning obj	ects per cla	ISS
	precision	recall	f1-score	
Temora spp. (n=18103-train=5148)	0.70	0.52	0.60	
Acartia spp. (n=13302-train=5448)	0.75	0.52	0.61	
Evadne spp. (n=5228-train=2845)	0.89	0.89	0.89	
Pseudocalanus spp. (n=3053-train=4552)	0.24	0.46	0.32	
Centropages spp. (n=330-train=40)	1.00	0.05	0.10	
Podon/Pleopsis spp. (n=253-train=201)	0.11	0.10	0.10	4
Eurytemora spp. (n=178-train=88)	0.00	0.00	0.00	1
Gastropoda (larvae/Limacina) (n=112-train=110)	0.60	0.33	0.43	
Oithona spp. (n=98-train=1409)	0.11	0.84	0.19	
Bivalvia (larvae) (n=92-train=71)	0.81	0.92	0.86	
Oikopleura spp. (n=70-train=761)	0.96	0.70	0.81	0
Hydrozoa (medusa) (n=64-train=21)	0.62	0.08	0.14	
Harpacticoida- epibenthic (n=50-train=136)	0.10	0.28	0.15	
Calanus spp. (n=25-train=213)	0.62	0.80	0.70	
Chaetognatha (n=15-train=67)	0.83	0.67	0.74	
Chiridius spp. (n=14-train=1)	0.00	0.00	0.00	0
Aglantha spp. (medusa) (n=10-train=21)	0.21	0.40	0.28	
Fritillaria spp. (n=7-train=3447)	0.06	0.71	0.11	
Echinodermata (larvae) (n=5-train=276)	0.00	0.00	0.00	
Metridia spp. (n=2-train=15)	0.00	0.00	0.00	0
Decapoda-non brachyura (larvae) (n=2-train=7)	0.00	0.00	0.00	O O
Cnidaria (larvae) (n=2-train=3)	0.00	0.00	0.00	
Obelia spp. (medusa) (n=1-train=43)	0.06	1.00	0.11	
Polychaeta (larvae) (n=1-train=452)	0.00	0.00	0.00	
Amphipoda (n=1-train=1)	0.00	0.00	0.00	0
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)	-	-	-	0
Microcalanus spp. (n=0-train=80)	-	-	-	
Euphausiacea (larvae) (n=0-train=75)	_	_	_	
Euphausiacea (nauplii) (n=0-train=122)	-	-	-	
macro avg (corr)	0.33	0.36	0.27	
weighted avg	0.70	0.55	0.61	
	precision	recall	f1-score	

Predictions of discarded taxa from training



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

