

Use of SCN features: No  
Max learning objects: Maximum objects/class  
Strategy N° 2

NL 2021 Selected Samples prediction using NL 2021 training set,  
Learning with all classes present in the selected samples, with extra training categories,  
No Calanoida (ci-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classification Report Matrix  
max available learning objects per class

Actual Values

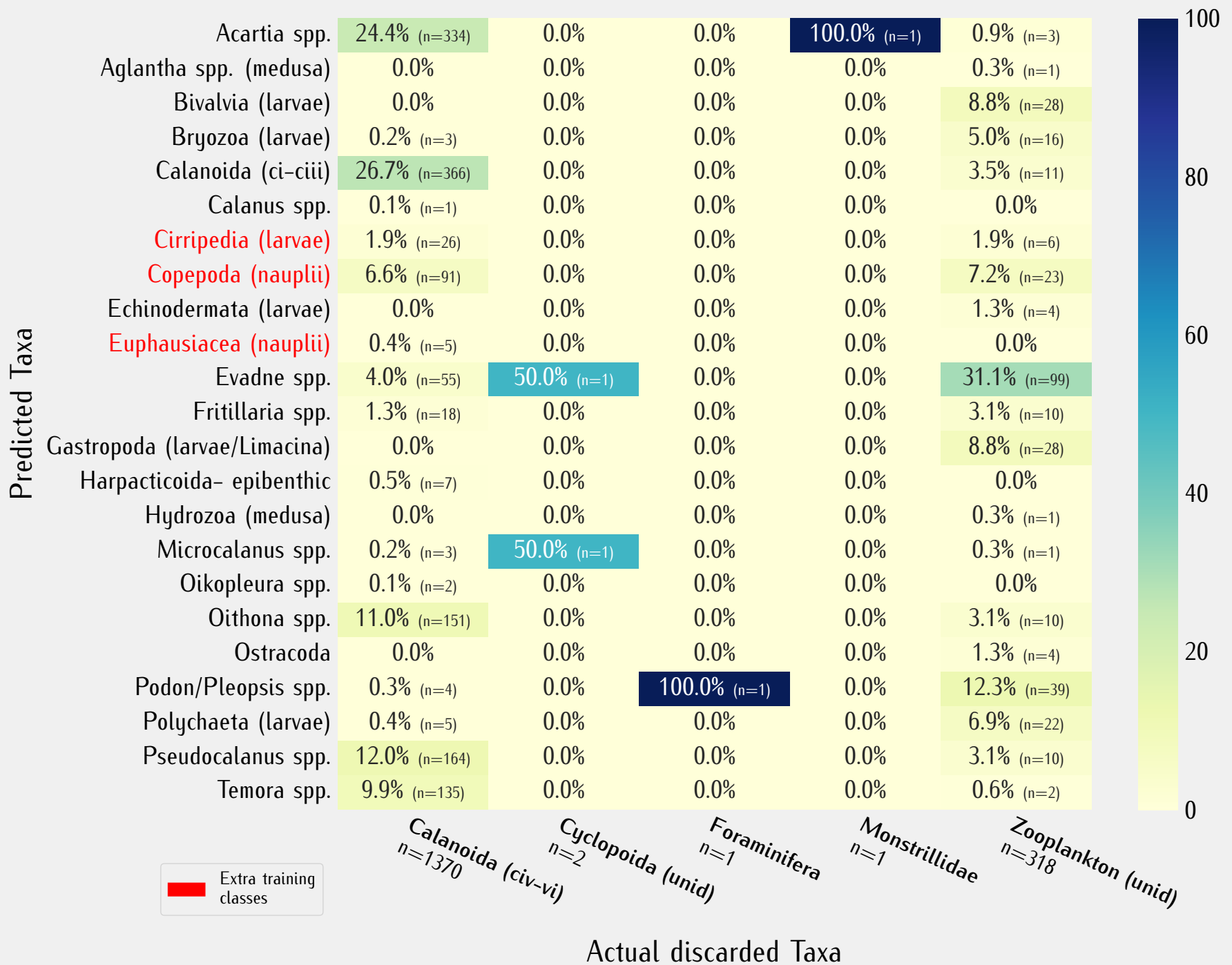
Actual Values	Predicted Values																																
	Predicted Values																																
	Acartia spp.	Evadne spp.	Temora spp.	Pseudocalanus spp.	Oithona spp.	Bryozoa (larvae)	Podon/Pleopsis spp.	Calanoida (ci-ciii)	Oikopleura spp.	Centropages spp.	Echinodermata (larvae)	Harpacticoida- epibenthic	Hydrozoa (medusa)	Gastropoda (larvae/Limacina)	Bivalvia (larvae)	Fritillaria spp.	Microcalanus spp.	Chaetognatha	Polychaeta (larvae)	Calanus spp.	Eurytemora spp.	Aglantha spp. (medusa)	Oncaeidae spp.	Sarsia spp. (medusa)	Ostracoda	Tortanus spp.	Decapoda-non brachyura (larvae)	Cirripedia (larvae)	Copepoda (nauplii)	Obelia spp. (medusa)	Euphausiacea (larvae)		
Acartia spp.	72%	<1%	7%	8%	3%			7%		<1%	<1%			<1%	<1%	<1%												<1%	<1%			<1%	
Evadne spp.		92%	<1%	<1%	<1%	<1%	2%	<1%					<1%	<1%	<1%		<1%											1%	1%				
Temora spp.	14%	1%	55%	9%	3%			14%			<1%			<1%	<1%													2%	3%			<1%	
Pseudocalanus spp.	21%		14%	55%	<1%			9%			<1%				<1%		<1%												<1%			<1%	
Oithona spp.	11%	1%	<1%		80%	<1%		3%			<1%				3%													<1%					
Bryozoa (larvae)		33%				52%	<1%	3%			<1%	<1%		2%	1%		<1%											<1%	7%				
Podon/Pleopsis spp.	1%	10%	13%	2%		<1%	15%	4%							<1%	1%		14%											13%	25%			
Calanoida (ci-ciii)	12%	8%	7%	8%	4%	<1%	4%	24%								3%		<1%	<1%										2%	25%			
Oikopleura spp.			2%	3%	2%			2%	62%			<1%					25%		<1%		2%						<1%					<1%	
Centropages spp.	62%		8%	1%				1%	25%												1%						1%						
Echinodermata (larvae)	2%				20%			2%	2%		20%						46%			2%									2%	2%			2%
Harpacticoida- epibenthic	19%		6%	9%	9%			15%				36%																		2%		4%	
Hydrozoa (medusa)		23%	2%			2%	4%	2%			2%		4%		2%	17%			2%	4%	6%	2%							15%	2%	9%		
Gastropoda (larvae/Limacina)		9%					11%								60%	11%			9%											2%			
Bivalvia (larvae)						5%	2%								16%	77%																	
Fritillaria spp.	3%				9%			3%	3%	3%							79%																
Microcalanus spp.		6%	3%	6%				26%				3%						13%		10%									3%	29%			
Chaetognatha									25%								11%		61%		4%												
Polychaeta (larvae)	5%	5%	5%		10%		5%													45%									5%	15%	5%		
Calanus spp.	7%			14%																	79%												
Eurytemora spp.	50%		20%	30%																													
Aglantha spp. (medusa)								11%			11%											56%	11%								11%		
Oncaeidae spp.	17%			17%	17%			17%			33%																						
Sarsia spp. (medusa)																25%							25%						25%		25%		
Ostracoda						50%																								50%			
Tortanus spp.	50%																									50%							
Decapoda-non brachyura (larvae)																						100%											

Extra  
training  
classes

Classification Report Matrix max available learning objects per class			
	precision	recall	f1-score
Acartia spp. (n=2490–train=5448)	0.77	0.72	0.74
Evadne spp. (n=1931–train=2845)	0.92	0.92	0.92
Temora spp. (n=1416–train=5148)	0.67	0.55	0.60
Pseudocalanus spp. (n=1044–train=4552)	0.63	0.55	0.59
Oithona spp. (n=345–train=1409)	0.66	0.80	0.73
Bryozoa (larvae) (n=248–train=119)	0.92	0.52	0.66
Podon/Pleopsis spp. (n=230–train=201)	0.37	0.15	0.22
Calanoida (ci-ciii) (n=130–train=3713)	0.05	0.24	0.09
Oikopleura spp. (n=115–train=761)	0.87	0.62	0.72
Centropages spp. (n=88–train=40)	0.96	0.25	0.40
Echinodermata (larvae) (n=50–train=276)	0.67	0.20	0.31
Harpacticoida- epibenthic (n=47–train=136)	0.49	0.36	0.41
Hydrozoa (medusa) (n=47–train=21)	0.67	0.04	0.08
Gastropoda (larvae/Limacina) (n=47–train=110)	0.52	0.60	0.55
Bivalvia (larvae) (n=44–train=71)	0.74	0.77	0.76
Fritillaria spp. (n=34–train=3447)	0.22	0.79	0.34
Microcalanus spp. (n=31–train=80)	0.24	0.13	0.17
Chaetognatha (n=28–train=67)	0.94	0.61	0.74
Polychaeta (larvae) (n=20–train=452)	0.15	0.45	0.22
Calanus spp. (n=14–train=213)	0.52	0.79	0.63
Eurytemora spp. (n=10–train=88)	0.00	0.00	0.00
Aglantha spp. (medusa) (n=9–train=21)	0.62	0.56	0.59
Oncaeidae spp. (n=6–train=16)	0.00	0.00	0.00
Sarsia spp. (medusa) (n=4–train=4)	0.33	0.25	0.29
Ostracoda (n=2–train=6)	0.00	0.00	0.00
Tortanus spp. (n=2–train=4)	0.50	0.50	0.50
Decapoda-non brachyura (larvae) (n=1–train=7)	0.00	0.00	0.00
Cirripedia (larvae) (n=0–train=611)	–	–	–
Copepoda (nauplii) (n=0–train=1025)	–	–	–
Obelia spp. (medusa) (n=0–train=43)	–	–	–
Euphausiacea (larvae) (n=0–train=75)	–	–	–
Euphausiacea (nauplii) (n=0–train=122)	–	–	–
macro avg (corr)	0.50	0.42	0.42
weighted avg	0.74	0.67	0.69
	precision	recall	f1-score



# Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

