

Use of SCN features: No
Max learning objects: 5000 objects/class
Strategy N° 6

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

Confusion Matrix - In percent of Actual Value

Classification Report Matrix
max 5000 learning objects per class

Actual Values

	Acartia spp.	65%	<1%	8%	9%	1%		<1%	2%	<1%	7%				<1%	<1%	<1%	<1%		3%						<1%			<1%		<1%	<1%	<1%
	Evadne spp.		85%	<1%	<1%	<1%	<1%	4%	<1%			<1%	2%	5%	<1%	<1%			<1%										2%	<1%	<1%		
	Temora spp.	13%	2%	52%	9%	1%		<1%	6%		8%			<1%	<1%		<1%	<1%		5%									2%	<1%	<1%	<1%	<1%
	Pseudocalanus spp.	20%		9%	53%				4%		8%				<1%		<1%	<1%	<1%	5%							<1%			<1%	<1%		
	Oithona spp.	10%	<1%	<1%		78%			1%	1%	3%	<1%				3%				1%									<1%		<1%		
	Bryozoa (larvae)		17%			<1%	60%	2%	1%	<1%		<1%		9%	<1%	<1%		<1%											6%	2%	<1%		
	Podon/Pleopsis spp.	<1%	11%	20%	2%		2%	22%	3%	<1%	<1%		<1%	<1%	<1%		<1%	14%		3%								4%	11%	<1%	2%		
	Calanoida (ci-cii)	12%	9%	12%	6%	4%		11%	22%		4%					<1%	4%		2%	2%	2%							<1%	6%	2%			
	Oikopleura spp.	<1%		3%	2%	<1%				76%						8%		2%										6%			2%	<1%	
	Centropages spp.	9%		2%	1%						81%									1%					5%		1%						
	Echinodermata (larvae)	2%				16%		2%	2%	8%		14%				44%		2%									2%	4%		2%		2%	
Gastropoda (larvae/Limacina)			2%				2%						68%	4%		13%			11%														
	Hydrozoa (medusa)		2%				4%	2%					2%		30%		4%				6%						2%	11%		36%			
Harpacticoida- epibenthic		15%	2%	6%	9%	2%			2%							47%					13%										2%	2%	
	Bivalvia (larvae)						2%	5%					5%	5%		73%			2%										9%				
	Fritillaria spp.	3%				9%					32%						56%																
	Microcalanus spp.		6%	6%	10%			10%	26%						3%			19%	6%		10%								3%				
	Chaetognatha										25%								68%	4%								4%					
	Polychaeta (larvae)				5%			5%					10%		5%					40%							5%	30%					
	Calanus spp.				7%						7%										79%					7%							
	Eurytemora spp.	20%		10%	30%						30%										10%												
	Aglantha spp. (medusa)									11%				22%								44%	11%								11%		
	Oncaeidae spp.	33%														50%					17%												
	Sarsia spp. (medusa)																					25%									75%		
	Ostracoda						50%									50%																	
	Tortanus spp.										50%													50%									
	Monstrillidae										100%																						
Decapoda-non brachyura (larvae)																					100%												
	Acartia spp.																																
	Evadne spp.																																
	Temora spp.																																
	Pseudocalanus spp.																																
	Oithona spp.																																
	Bryozoa (larvae)																																
	Podon/Pleopsis spp.																																

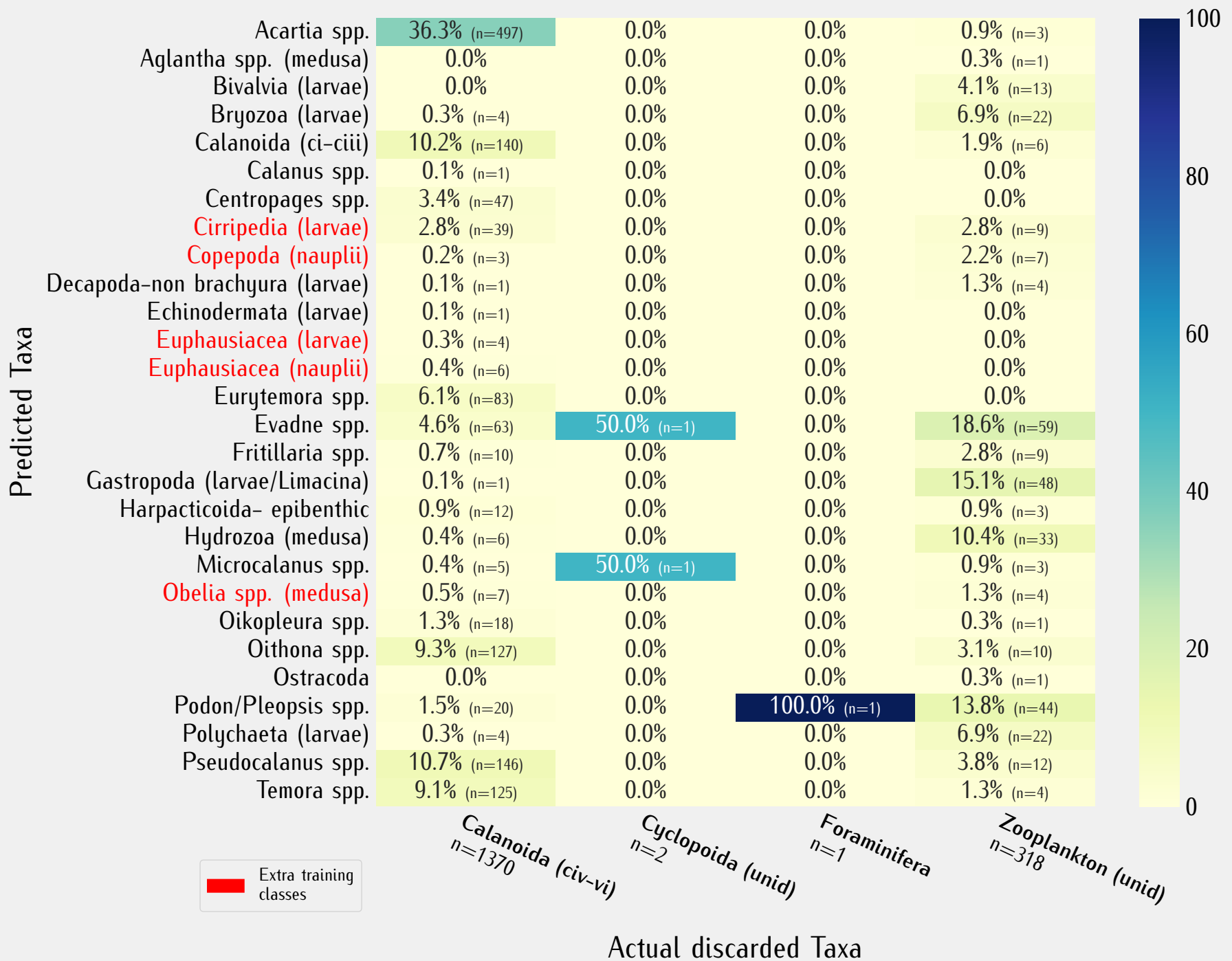
Predicted Values

Extra
training
classes

	precision	recall	f1-score
Acartia spp. (n=2490-train=5000)	0.77	0.65	0.70
Evadne spp. (n=1931-train=5000)	0.93	0.85	0.89
Temora spp. (n=1416-train=5000)	0.66	0.52	0.58
Pseudocalanus spp. (n=1044-train=4845)	0.58	0.53	0.55
Oithona spp. (n=345-train=5000)	0.76	0.78	0.77
Bryozoa (larvae) (n=248-train=1142)	0.89	0.60	0.71
Podon/Pleopsis spp. (n=230-train=5000)	0.33	0.22	0.27
Calanoida (ci-ciü) (n=130-train=5000)	0.12	0.22	0.15
Oikopleura spp. (n=115-train=5000)	0.70	0.76	0.73
Centropages spp. (n=88-train=3620)	0.15	0.81	0.26
Echinodermata (larvae) (n=50-train=3043)	0.58	0.14	0.23
Gastropoda (larvae/Limacina) (n=47-train=3272)	0.39	0.68	0.50
Hydrozoa (medusa) (n=47-train=4052)	0.10	0.30	0.15
Harpacticoida- epibenthic (n=47-train=555)	0.42	0.47	0.44
Bivalvia (larvae) (n=44-train=3764)	0.80	0.73	0.76
Fritillaria spp. (n=34-train=5000)	0.23	0.56	0.33
Microcalanus spp. (n=31-train=80)	0.35	0.19	0.25
Chaetognatha (n=28-train=89)	0.90	0.68	0.78
Polychaeta (larvae) (n=20-train=1577)	0.13	0.40	0.20
Calanus spp. (n=14-train=359)	0.61	0.79	0.69
Eurytemora spp. (n=10-train=1818)	0.00	0.10	0.01
Aglantha spp. (medusa) (n=9-train=22)	0.57	0.44	0.50
Oncaeidae spp. (n=6-train=18)	0.00	0.00	0.00
Sarsia spp. (medusa) (n=4-train=4)	0.50	0.25	0.33
Ostracoda (n=2-train=25)	0.00	0.00	0.00
Tortanus spp. (n=2-train=203)	0.14	0.50	0.22
Monstrillidae (n=1-train=27)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=1-train=423)	0.00	0.00	0.00
Cirripedia (larvae) (n=0-train=5000)	-	-	-
Copepoda (nauplii) (n=0-train=5000)	-	-	-
Obelia spp. (medusa) (n=0-train=1003)	-	-	-
Euphausiacea (larvae) (n=0-train=87)	-	-	-
Euphausiacea (nauplii) (n=0-train=145)	-	-	-
macro avg (corr)	0.42	0.43	0.39
weighted avg	0.72	0.64	0.67
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

