

Use of SCN features: No
Max learning objects: 200 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 (civ-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix - In percent of Actual Value

Classification Report Matrix
max 200 learning objects per class

Actual Values

	Acartia spp.	40%	<1%	4%	15%	2%			<1%	<1%	8%				2%		<1%	3%			9%		<1%			7%	<1%		<1%		<1%	4%	3%	
	Evadne spp.		76%		<1%	<1%	2%	4%	<1%			<1%	2%	10%	<1%	<1%		1%		<1%	<1%		<1%		<1%				3%		<1%		<1%	
	Temora spp.	10%	2%	30%	11%	3%	<1%	<1%	<1%		8%				<1%			4%		<1%		9%	<1%	<1%			3%		<1%	1%		<1%	2%	15%
	Pseudocalanus spp.	19%		6%	44%	<1%			<1%		9%				1%			5%		<1%	<1%	9%	<1%	<1%			<1%		1%			<1%	2%	2%
	Oithona spp.	12%	1%		<1%	71%				<1%	<1%	<1%			1%		<1%				2%		<1%			2%	<1%		<1%			<1%	3%	
	Bryozoa (larvae)		18%			<1%	53%	2%				<1%		9%	8%		2%	2%		1%				<1%						3%	2%	<1%		
	Podon/Pleopsis spp.		8%	13%			<1%	5%		<1%	<1%		<1%	<1%	<1%			29%		10%		3%	4%					9%	6%		5%		3%	
	Calanoida (ci-ciiü)	8%	10%	4%	5%	5%	3%	5%			2%				2%		<1%	25%		2%	<1%	3%		<1%			<1%	<1%	2%	8%			11%	
	Oikopleura spp.	<1%			<1%	2%				29%		<1%					7%		36%		<1%	<1%					<1%	2%	8%			4%	7%	<1%
	Centropages spp.	6%		1%	3%						70%										1%						11%	1%	2%			3%		
	Echinodermata (larvae)	4%				14%		2%		8%		18%					40%			2%						2%		2%	2%	2%	2%		4%	
Gastropoda (larvae/Limacina)						2%	9%					53%	11%		11%				9%			6%												
	Hydrozoa (medusa)		2%	2%								2%		17%			6%	2%			2%		13%			2%				6%		45%		
Harpacticoida- epibenthic		4%		4%	6%	2%								45%			2%					13%		6%								11%	6%	
	Bivalvia (larvae)						7%						7%	9%		70%														7%				
	Fritillaria spp.	3%				12%			3%	35%		3%					44%																	
	Microcalanus spp.		6%		3%		3%	3%										58%		3%		16%											6%	
	Chaetognatha									7%									86%		4%			4%										
	Polychaeta (larvae)					5%		5%					5%		10%			10%		15%			5%			10%	5%		5%	20%			5%	
	Calanus spp.																				86%					7%		7%						
	Eurytemora spp.				30%						50%				10%							10%												
	Aglantha spp. (medusa)																						78%		11%						11%			
	Oncaeidae spp.				33%										17%							17%		17%								17%		
	Sarsia spp. (medusa)																								25%						75%			
	Ostracoda						100%																											
	Tortanus spp.																									100%								
	Monstrillidae										100%																							
Decapoda-non brachyura (larvae)																					100%													
	Acartia spp.																																	
	Evadne spp.																																	
	Temora spp.																																	
	Pseudocalanus spp.																																	
	Oithona spp.																																	
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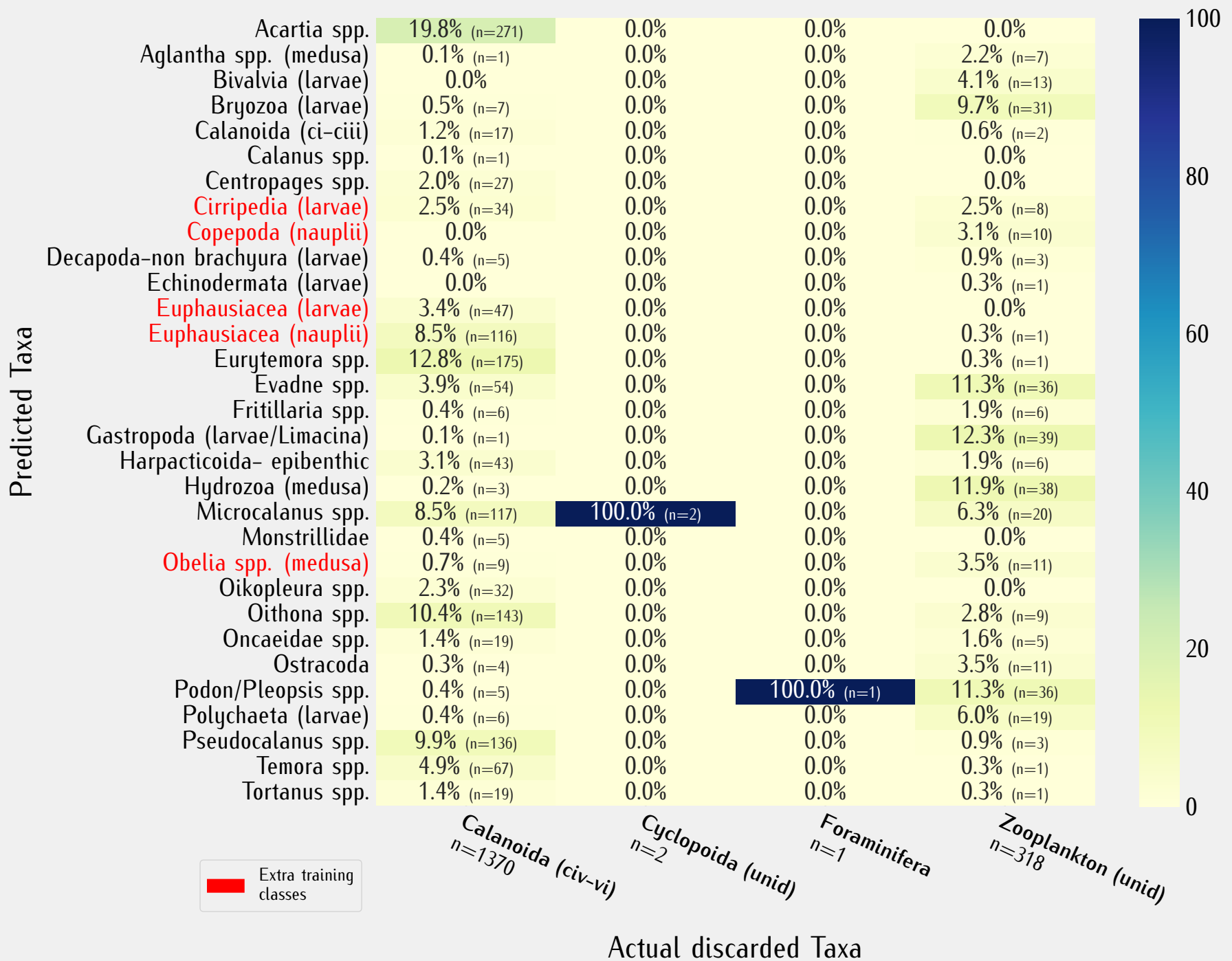
Predicted Values

Extra
training
classes

	precision	recall	f1-score
Acartia spp. (n=2490-train=200)	0.72	0.40	0.52
Evadne spp. (n=1931-train=200)	0.93	0.76	0.84
Temora spp. (n=1416-train=200)	0.69	0.30	0.42
Pseudocalanus spp. (n=1044-train=200)	0.45	0.44	0.45
Oithona spp. (n=345-train=200)	0.68	0.71	0.70
Bryozoa (larvae) (n=248-train=200)	0.74	0.53	0.62
Podon/Pleopsis spp. (n=230-train=200)	0.11	0.05	0.07
Calanoida (ci-ciü) (n=130-train=200)	0.00	0.00	0.00
Oikopleura spp. (n=115-train=200)	0.54	0.29	0.38
Centropages spp. (n=88-train=200)	0.13	0.70	0.22
Echinodermata (larvae) (n=50-train=200)	0.50	0.18	0.26
Gastropoda (larvae/Limacina) (n=47-train=200)	0.42	0.53	0.47
Hydrozoa (medusa) (n=47-train=200)	0.03	0.17	0.06
Harpacticoida- epibenthic (n=47-train=200)	0.15	0.45	0.22
Bivalvia (larvae) (n=44-train=200)	0.84	0.70	0.77
Fritillaria spp. (n=34-train=200)	0.25	0.44	0.32
Microcalanus spp. (n=31-train=80)	0.06	0.58	0.10
Chaetognatha (n=28-train=89)	0.37	0.86	0.52
Polychaeta (larvae) (n=20-train=200)	0.07	0.15	0.09
Calanus spp. (n=14-train=200)	0.52	0.86	0.65
Eurytemora spp. (n=10-train=200)	0.00	0.10	0.00
Aglantha spp. (medusa) (n=9-train=22)	0.25	0.78	0.38
Oncaeidae spp. (n=6-train=18)	0.03	0.17	0.05
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=200)	0.01	1.00	0.02
Monstrillidae (n=1-train=27)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=1-train=200)	0.00	0.00	0.00
Cirripedia (larvae) (n=0-train=200)	-	-	-
Copepoda (nauplii) (n=0-train=200)	-	-	-
Obelia spp. (medusa) (n=0-train=87)	-	-	-
Euphausiacea (larvae) (n=0-train=200)	-	-	-
Euphausiacea (nauplii) (n=0-train=145)	-	-	-
macro avg (corr)	0.32	0.41	0.30
weighted avg	0.67	0.48	0.54
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

