

Use of SCN features: Yes
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.	66%	<1%	7%	11%	1%		<1%	2%	<1%	7%				<1%	<1%	<1%		<1%		4%							<1%		<1%	<1%	<1%
Evadne spp.	<1%	86%	<1%	<1%	<1%	<1%	4%	<1%			<1%	2%	5%	<1%	<1%	<1%		<1%								2%	<1%	<1%			
Temora spp.	13%	2%	55%	9%	2%	<1%	<1%	6%		6%				<1%		<1%		<1%		4%						<1%		<1%		<1%	
Pseudocalanus spp.	22%		9%	52%				3%		8%				<1%		<1%			<1%	5%						<1%			<1%		
Oithona spp.	13%	<1%	<1%		76%			1%		3%	<1%			<1%		2%				1%						<1%					
Bryozoa (larvae)		23%			<1%	54%	2%	1%			<1%		8%	1%	<1%			<1%								5%	2%				
Podon/Pleopsis spp.	1%	13%	21%	2%			19%	5%	<1%	<1%		<1%	<1%			<1%		13%		4%					7%	9%		3%			
Calanoida (ci-ciii)	15%	10%	11%	5%	4%	2%	11%	25%		5%						<1%		2%	<1%	3%					<1%	6%				<1%	
Oikopleura spp.	<1%		3%	3%	2%					71%	<1%					11%		3%							6%						
Centropages spp.	9%		3%	1%							80%											5%		2%							
Echinodermata (larvae)	2%				18%		2%	2%	4%			14%				48%		2%							2%	4%		2%			
Gastropoda (larvae/Limacina)		2%					2%					68%	4%		15%			9%													
Hydrozoa (medusa)						2%	2%					2%		28%		6%		4%			2%				4%	6%		43%			
Harpacticoida- epibenthic	13%	2%	6%	15%	4%			4%						45%						9%						2%					
Bivalvia (larvae)						5%	5%					5%	7%		70%												9%				
Fritillaria spp.					12%					41%						47%															
Microcalanus spp.	3%	6%	13%	13%			10%	32%				3%					13%		3%		3%										
Chaetognatha										36%								57%	4%	4%											
Polychaeta (larvae)	5%			5%	5%		10%					10%						35%						5%	25%						
Calanus spp.				7%						7%										86%											
Eurytemora spp.	10%		20%	30%						30%											10%										
Aglantha spp. (medusa)													33%								44%			11%			11%				
Oncaeidae spp.	17%													50%						33%											
Sarsia spp. (medusa)															25%						25%								50%		
Ostracoda						100%																									
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.

Calanoida (ci-ciii)

Oikopleura spp.

Centropages spp.

Echinodermata (larvae)

Gastropoda (larvae/Limacina)

Hydrozoa (medusa)

Harpacticoida- epibenthic

Bivalvia (larvae)

Fritillaria spp.

Microcalanus spp.

Chaetognatha

Polychaeta (larvae)

Calanus spp.

Eurytemora spp.

Aglantha spp. (medusa)

Oncaeidae spp.

Sarsia spp. (medusa)

Ostracoda

Tortanus spp.

Monstrillidae

Decapoda-non brachyura (larvae)

Decapoda-non brachyura (larvae)

Cirripedia (larvae)

Copepoda (nauplii)

Obelia spp. (medusa)

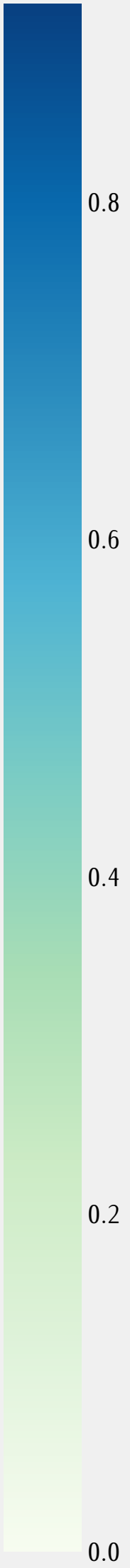
Euphausiacea

Euphausiacea

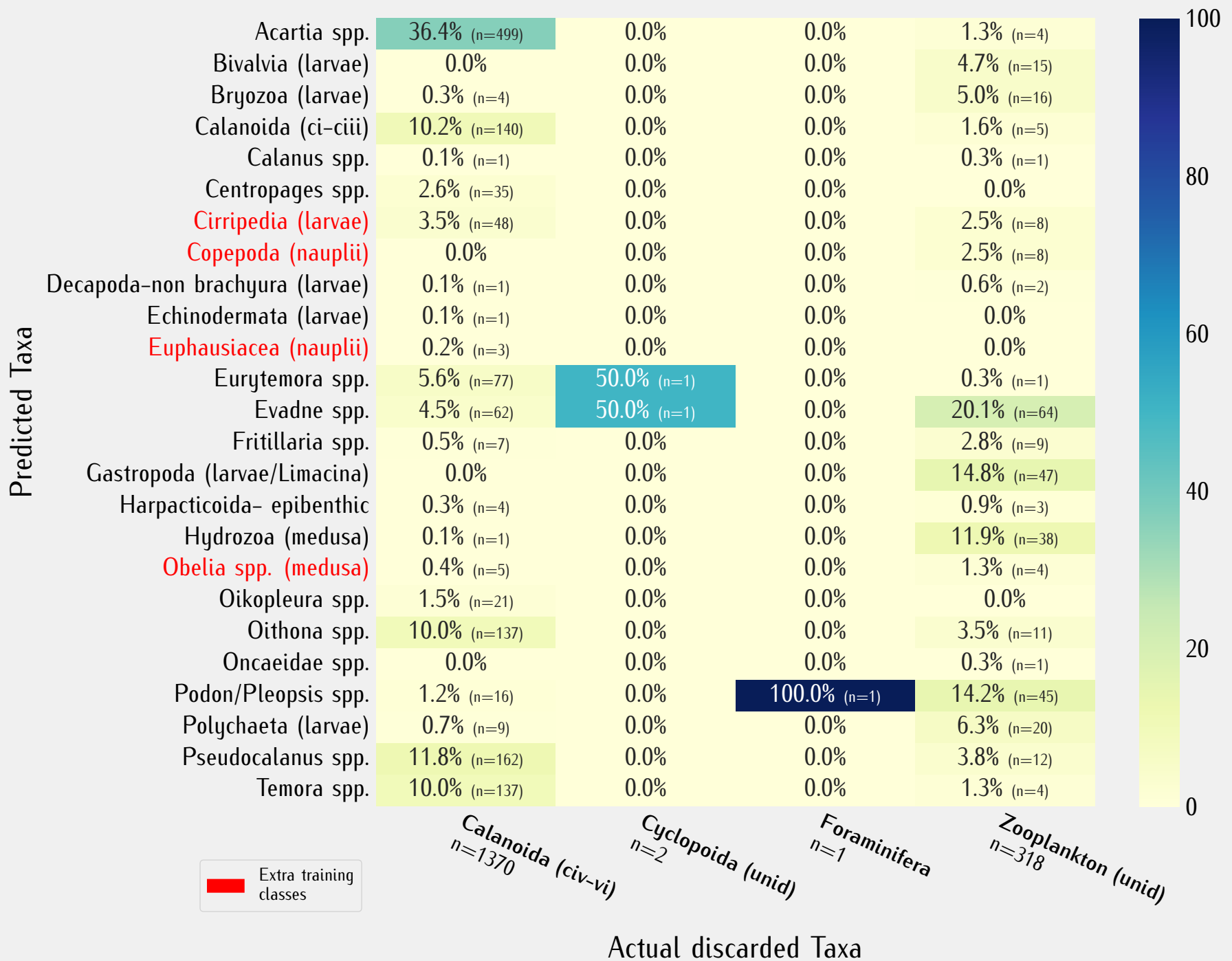
Predicted Values

Extra
training
classes

	precision	recall	f1-score
Acartia spp. (n=2490-train=5000)	0.76	0.66	0.71
Evadne spp. (n=1931-train=5000)	0.92	0.86	0.89
Temora spp. (n=1416-train=5000)	0.69	0.55	0.61
Pseudocalanus spp. (n=1044-train=4845)	0.56	0.52	0.54
Oithona spp. (n=345-train=5000)	0.74	0.76	0.75
Bryozoa (larvae) (n=248-train=1142)	0.89	0.54	0.68
Podon/Pleopsis spp. (n=230-train=5000)	0.30	0.19	0.23
Calanoida (ci-ciü) (n=130-train=5000)	0.13	0.25	0.17
Oikopleura spp. (n=115-train=5000)	0.72	0.71	0.72
Centropages spp. (n=88-train=3620)	0.16	0.80	0.27
Echinodermata (larvae) (n=50-train=3043)	0.58	0.14	0.23
Gastropoda (larvae/Limacina) (n=47-train=3272)	0.46	0.68	0.55
Hydrozoa (medusa) (n=47-train=4052)	0.09	0.28	0.13
Harpacticoida- epibenthic (n=47-train=555)	0.53	0.45	0.48
Bivalvia (larvae) (n=44-train=3764)	0.78	0.70	0.74
Fritillaria spp. (n=34-train=5000)	0.21	0.47	0.29
Microcalanus spp. (n=31-train=80)	0.36	0.13	0.19
Chaetognatha (n=28-train=89)	0.84	0.57	0.68
Polychaeta (larvae) (n=20-train=1577)	0.12	0.35	0.18
Calanus spp. (n=14-train=359)	0.71	0.86	0.77
Eurytemora spp. (n=10-train=1818)	0.00	0.10	0.01
Aglantha spp. (medusa) (n=9-train=22)	0.67	0.44	0.53
Oncaeidae spp. (n=6-train=18)	0.00	0.00	0.00
Sarsia spp. (medusa) (n=4-train=4)	0.00	0.00	0.00
Ostracoda (n=2-train=25)	0.00	0.00	0.00
Tortanus spp. (n=2-train=203)	0.20	0.50	0.29
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)	0.41	0.41	0.38
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

