

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 1

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

Confusion Matrix - In percent of Actual Value

Classification Report Matrix
max 200 learning objects per class

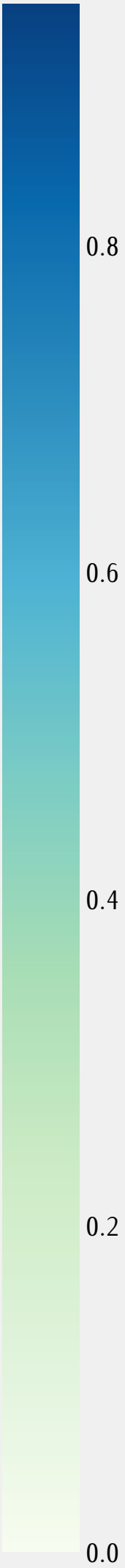
Actual Values

Acartia spp.	49%	<1%	8%	14%	5%	<1%		3%	<1%	<1%	<1%	14%				<1%	3%				1%		<1%			
Evadne spp.		80%	<1%	<1%	<1%	7%	7%	<1%			<1%		<1%	2%	<1%	<1%	1%		<1%					<1%		
Temora spp.	11%	1%	42%	10%	10%	<1%	<1%	12%		<1%	<1%	5%				<1%	4%		<1%		3%	<1%	<1%			
Pseudocalanus spp.	19%		12%	45%	<1%			6%		<1%	<1%	5%				<1%	5%		<1%	<1%	6%					
Oithona spp.	8%	<1%	<1%	<1%	83%	<1%		<1%			<1%	<1%				3%					<1%		<1%			
Bryozoa (larvae)		6%				88%	2%				<1%			2%		<1%	<1%					<1%				
Podon/Pleopsis spp.		7%	10%	<1%	<1%	5%	27%	3%	<1%	<1%		<1%	<1%				19%		24%		<1%	<1%				
Calanoida (ci-ciüi)	9%	12%	4%	5%	9%	5%	8%	8%				3%	4%				25%		<1%	2%	4%		<1%			
Oikopleura spp.			3%	3%	3%	<1%		<1%	66%			<1%				10%		9%	<1%	3%	2%					
Centropages spp.	17%		3%	1%							69%										1%	7%				1%
Echinodermata (larvae)	8%				22%	2%	2%		2%			30%				30%			4%							
Harpacticoida- epibenthic			6%	2%	9%	2%		6%				72%											2%			
Hydrozoa (medusa)		6%				9%	6%				6%		21%	2%	2%	17%	4%		11%	4%		11%				
Gastropoda (larvae/Limacina)		4%					15%								64%	11%			4%					2%		
Bivalvia (larvae)						5%	2%								18%	75%										
Fritillaria spp.					15%				3%		9%						74%									
Microcalanus spp.		6%		6%	3%		6%	10%				6%					58%		3%							
Chaetognatha									14%									79%		4%			4%			
Polychaeta (larvae)	5%	15%			15%		20%							5%		10%		25%							5%	
Calanus spp.										7%									86%	7%						
Eurytemora spp.	30%		20%	30%																	20%					
Aglantha spp. (medusa)																						11%	11%		78%	
Oncaeidae spp.				17%				17%				50%												17%		
Sarsia spp. (medusa)													25%					25%			25%	25%				
Ostracoda						100%																				
Tortanus spp.	50%																								50%	
Decapoda-non brachyura (larvae)																				100%						

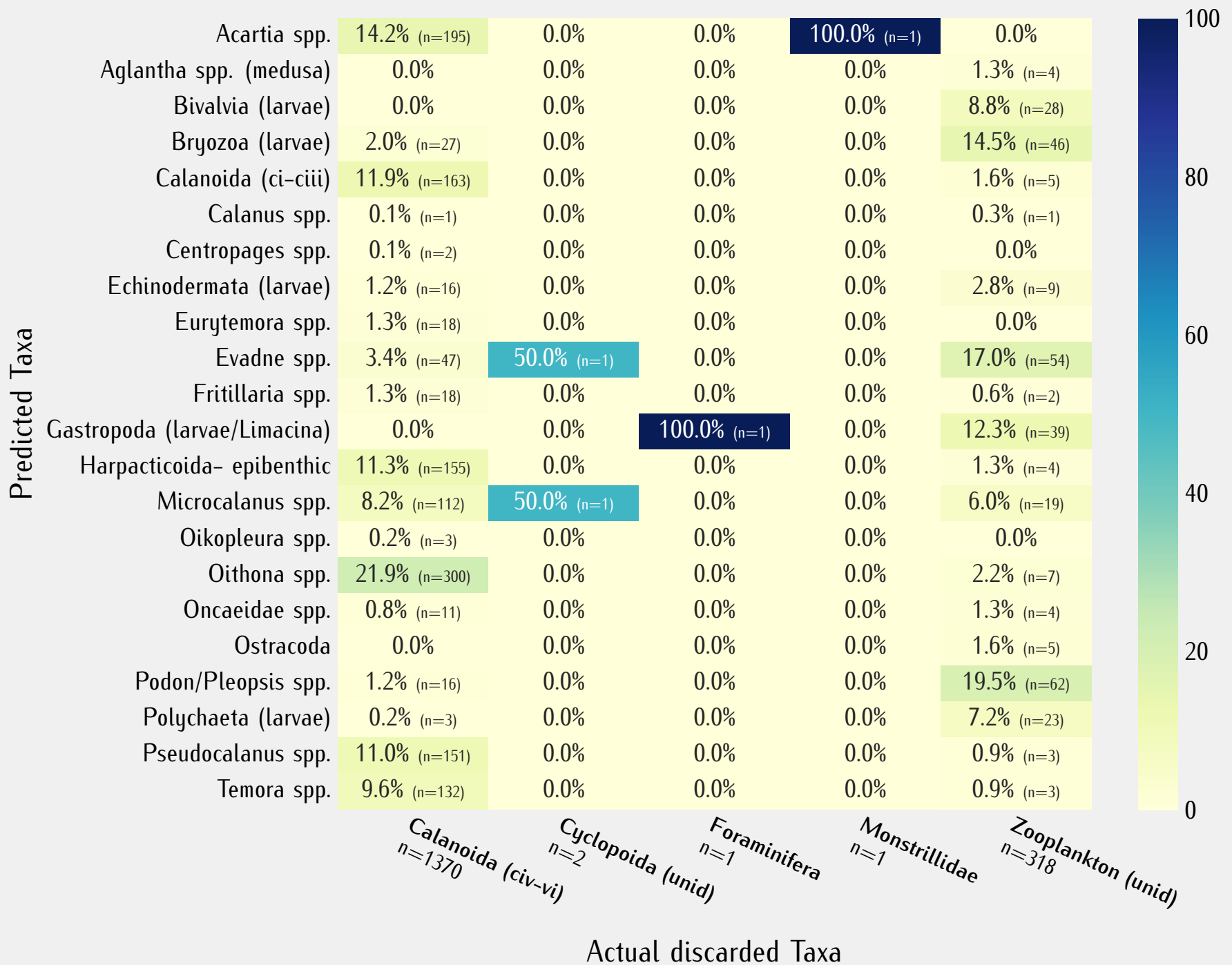
Acartia spp.
Evadne spp.
Temora spp.
Pseudocalanus spp.
Oithona spp.
Bryozoa (larvae)
Podon/Pleopsis spp.
Calanoida (ci-ciüi)
Oikopleura spp.
Centropages spp.
Echinodermata (larvae)
Harpacticoida- epibenthic
Hydrozoa (medusa)
Gastropoda (larvae/Limacina)
Bivalvia (larvae)
Fritillaria spp.
Microcalanus spp.
Chaetognatha
Polychaeta (larvae)
Calanus spp.
Eurytemora spp.
Aglantha spp. (medusa)
Oncaeidae spp.
Sarsia spp. (medusa)
Ostracoda
Tortanus spp.
Decapoda-non brachyura (larvae)

Predicted Values

	precision	recall	f1-score
Acartia spp. (n=2490-train=200)	0.75	0.49	0.59
Evadne spp. (n=1931-train=200)	0.95	0.80	0.87
Temora spp. (n=1416-train=200)	0.62	0.42	0.50
Pseudocalanus spp. (n=1044-train=200)	0.48	0.45	0.47
Oithona spp. (n=345-train=200)	0.47	0.83	0.60
Bryozoa (larvae) (n=248-train=119)	0.56	0.88	0.69
Podon/Pleopsis spp. (n=230-train=200)	0.25	0.27	0.26
Calanoida (ci-ciüi) (n=130-train=200)	0.03	0.08	0.04
Oikopleura spp. (n=115-train=200)	0.90	0.66	0.76
Centropages spp. (n=88-train=40)	0.90	0.69	0.78
Echinodermata (larvae) (n=50-train=200)	0.30	0.30	0.30
Harpacticoida- epibenthic (n=47-train=136)	0.07	0.72	0.12
Hydrozoa (medusa) (n=47-train=21)	0.77	0.21	0.33
Gastropoda (larvae/Limacina) (n=47-train=110)	0.41	0.64	0.50
Bivalvia (larvae) (n=44-train=71)	0.73	0.75	0.74
Fritillaria spp. (n=34-train=200)	0.26	0.74	0.39
Microcalanus spp. (n=31-train=80)	0.06	0.58	0.11
Chaetognatha (n=28-train=67)	0.69	0.79	0.73
Polychaeta (larvae) (n=20-train=200)	0.06	0.25	0.10
Calanus spp. (n=14-train=200)	0.44	0.86	0.59
Eurytemora spp. (n=10-train=88)	0.01	0.20	0.02
Aglantha spp. (medusa) (n=9-train=21)	0.41	0.78	0.54
Oncaeidae spp. (n=6-train=16)	0.10	0.17	0.12
Sarsia spp. (medusa) (n=4-train=4)	0.00	0.00	0.00
Ostracoda (n=2-train=6)	0.00	0.00	0.00
Tortanus spp. (n=2-train=4)	0.33	0.50	0.40
Decapoda-non brachyura (larvae) (n=1-train=7)	0.00	0.00	0.00
macro avg	0.39	0.48	0.39
weighted avg	0.68	0.57	0.61
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

