

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 4

NL 2021 Selected Samples prediction using NL 2021 training set,
Learning with selected samples classes with no low regional training instances, with extra 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

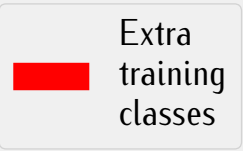
precision recall f1-score

Actual Values

Acartia spp.	47%	<1%	7%	15%	4%	<1%		3%	<1%	<1%	<1%	12%			<1%	2%				1%	<1%	<1%		2%	3%
Evadne spp.		78%		<1%	<1%	5%	6%	<1%			<1%		2%	<1%		<1%		<1%			3%	3%	<1%		<1%
Temora spp.	10%	<1%	37%	10%	7%	<1%	<1%	10%		<1%	<1%	4%				3%		<1%		3%	4%	3%		<1%	6%
Pseudocalanus spp.	20%		12%	45%	<1%			5%		<1%	<1%	4%			<1%	5%		<1%	<1%	6%		<1%		<1%	2%
Oithona spp.	8%		<1%	<1%	81%	<1%		<1%		<1%	1%	<1%			3%				<1%	<1%	<1%	<1%		<1%	3%
Bryozoa (larvae)		4%				83%	2%				2%		2%	<1%	<1%	<1%		<1%			<1%	5%			
Podon/Pleopsis spp.		6%	4%	<1%		2%	25%		<1%	<1%		<1%				13%		14%		<1%	16%	17%			<1%
Calanoida (ci-ciii)	10%	5%	3%	4%	5%	4%	5%	2%			2%	3%				17%		<1%	<1%	5%	6%	25%			4%
Oikopleura spp.	<1%		2%	3%	3%	<1%		<1%	66%		<1%				10%		7%		2%	3%				2%	
Centropages spp.	18%		1%	2%						69%									1%	5%	1%			2%	
Echinodermata (larvae)	8%				24%	2%	2%		2%		28%				30%		4%								
Harpacticoida- epibenthic			4%	4%	6%	2%		4%				72%										4%			2%
Gastropoda (larvae/Limacina)		6%					15%						62%	11%			6%								
Bivalvia (larvae)						5%	2%					14%	80%												
Fritillaria spp.					15%				3%		9%				74%										
Microcalanus spp.		6%		3%	3%		3%	6%				6%				52%		3%		3%	13%				
Chaetognatha					4%				14%						4%		75%		4%						
Polychaeta (larvae)					10%		15%						5%	5%		10%		20%			15%	10%	5%		5%
Calanus spp.									7%								86%	7%							
Eurytemora spp.	20%		10%	20%							10%								20%					20%	

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
Gastropoda (larvae/Limacina)
Bivalvia (larvae)
Fritillaria spp.
Microcalanus spp.
Chaetognatha
Polychaeta (larvae)
Calanus spp.
Eurytemora spp.
Cirripedia (larvae)
Copepoda (larvae)
Obelia spp. (medusa)
Euphausiacea (larvae)
Euphausiacea (nauplii)

Predicted Values

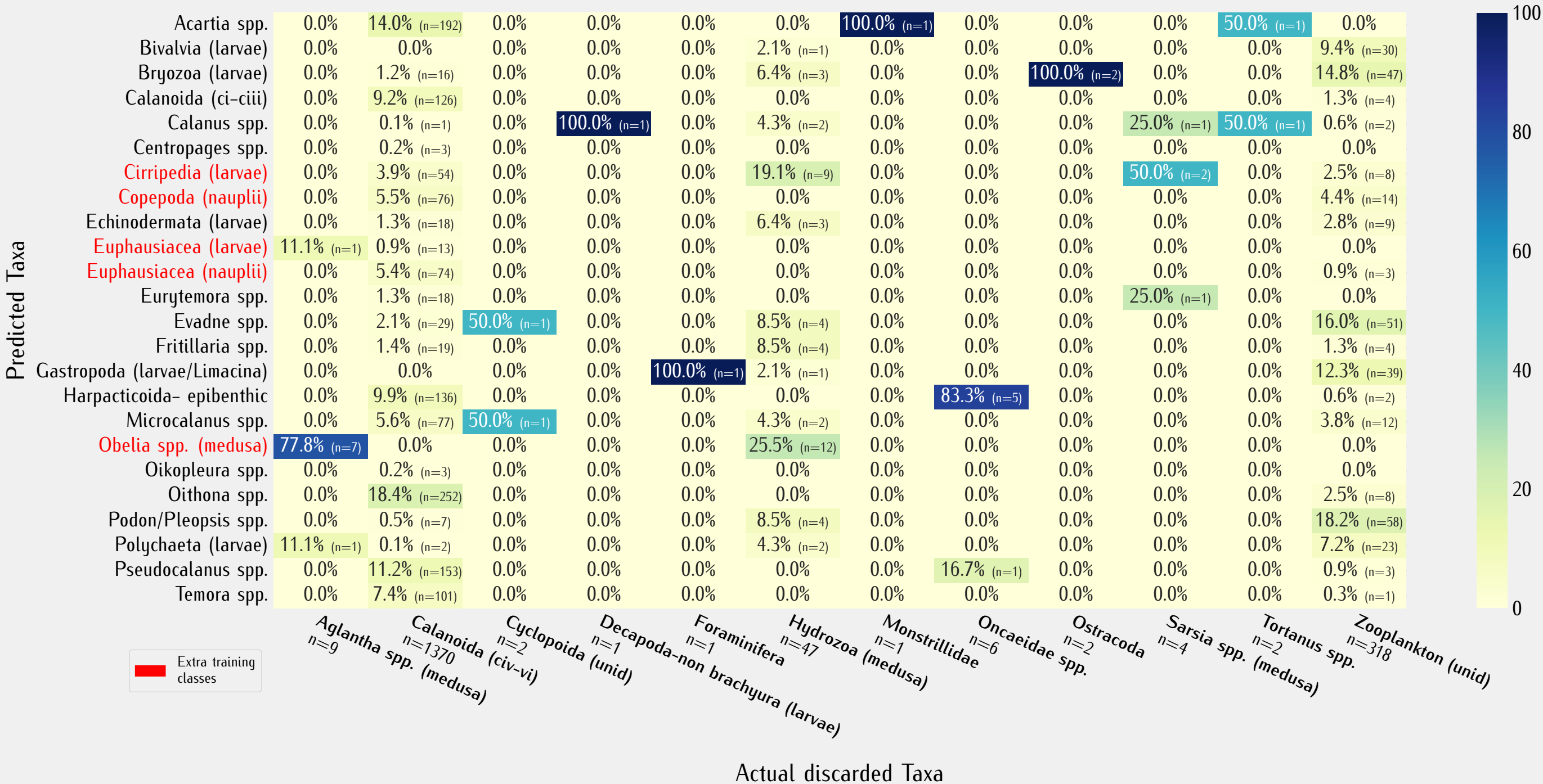


Acartia spp. (n=2490-train=200)	0.74	0.47	0.58
Evadne spp. (n=1931-train=200)	0.96	0.78	0.86
Temora spp. (n=1416-train=200)	0.62	0.37	0.46
Pseudocalanus spp. (n=1044-train=200)	0.47	0.45	0.46
Oithona spp. (n=345-train=200)	0.52	0.81	0.63
Bryozoa (larvae) (n=248-train=119)	0.62	0.83	0.71
Podon/Pleopsis spp. (n=230-train=200)	0.28	0.25	0.26
Calanoida (ci-ciii) (n=130-train=200)	0.01	0.02	0.01
Oikopleura spp. (n=115-train=200)	0.89	0.66	0.76
Centropages spp. (n=88-train=40)	0.86	0.69	0.77
Echinodermata (larvae) (n=50-train=200)	0.29	0.28	0.29
Harpacticoida- epibenthic (n=47-train=136)	0.08	0.72	0.14
Gastropoda (larvae/Limacina) (n=47-train=110)	0.41	0.62	0.49
Bivalvia (larvae) (n=44-train=71)	0.66	0.80	0.72
Fritillaria spp. (n=34-train=200)	0.30	0.74	0.43
Microcalanus spp. (n=31-train=80)	0.07	0.52	0.12
Chaetognatha (n=28-train=67)	0.72	0.75	0.74
Polychaeta (larvae) (n=20-train=200)	0.08	0.20	0.11
Calanus spp. (n=14-train=200)	0.57	0.86	0.69
Eurytemora spp. (n=10-train=88)	0.01	0.20	0.03
Cirripedia (larvae) (n=0-train=200)	-	-	-
Copepoda (nauplii) (n=0-train=200)	-	-	-
Obelia spp. (medusa) (n=0-train=43)	-	-	-
Euphausiacea (larvae) (n=0-train=75)	-	-	-
Euphausiacea (nauplii) (n=0-train=122)	-	-	-
macro avg (corr)	0.46	0.55	0.46
weighted avg	0.69	0.54	0.60

precision recall f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

