

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 2

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

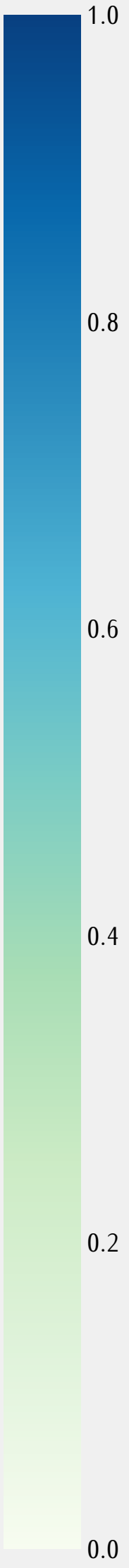
Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max 200 learning objects per class

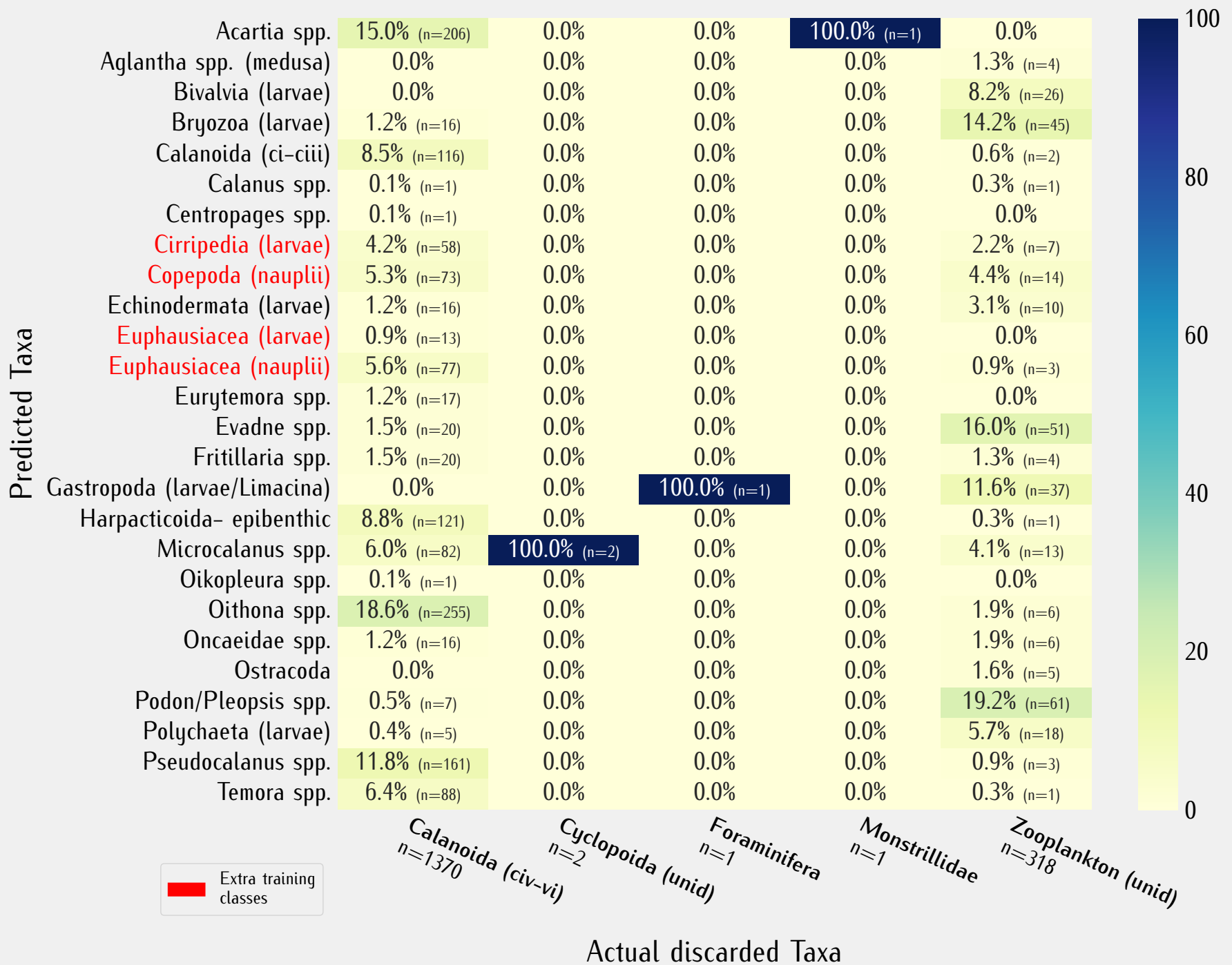
Actual Values

Actual Values	Predicted Values																														
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	Acartia spp.	Evadne spp.	Temora spp.	Pseudocalanus spp.	Oithona spp.	Bryozoa	Podon/Pleopsis spp.	Calanoida (ci-ciii)	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)	Cirripedia (larvae)	Copepoda (nauplii)	Obelia spp. (medusa)	Euphausiacea (larvae)
Acartia spp.	47%	<1%	7%	16%	4%			3%	<1%	<1%	<1%	11%			<1%	2%				1%		<1%					<1%	<1%		2%	4%
Evadne spp.		77%		<1%	<1%	5%	7%	<1%		<1%			2%	<1%		<1%			<1%			<1%					3%	3%	<1%		<1%
Temora spp.	11%	1%	36%	12%	7%	<1%	<1%	11%		<1%	<1%	3%			3%				3%	<1%	<1%						4%	2%		<1%	6%
Pseudocalanus spp.	21%		11%	46%	<1%			5%		<1%	<1%	4%			<1%	5%		<1%	<1%	5%								<1%		<1%	2%
Oithona spp.	9%	<1%	<1%	<1%	81%	<1%		<1%		<1%	<1%				2%				<1%	<1%							<1%	<1%		<1%	2%
Bryozoa (larvae)		5%				85%	2%				1%			2%	<1%												<1%	3%			
Podon/Pleopsis spp.		6%	3%	<1%		2%	23%		<1%	<1%		<1%				12%		16%		<1%	<1%						17%	17%		<1%	<1%
Calanoida (ci-ciii)	8%	7%	2%	4%	5%	3%	5%	3%			2%	2%				17%		<1%	<1%	5%							5%	25%			5%
Oikopleura spp.			3%	3%	3%	<1%		<1%	66%		<1%				9%		10%		2%	2%										<1%	
Centropages spp.	17%		1%	2%						69%									1%	5%					1%		1%			2%	
Echinodermata (larvae)	10%				24%				2%		28%				28%		4%										2%	2%			
Harpacticoida- epibenthic			4%	4%	9%	2%		6%				64%										2%					2%	2%			4%
Hydrozoa (medusa)		2%				6%	9%				6%		6%	2%	2%	11%	4%			4%		15%					19%		13%		
Gastropoda (larvae/Limacina)		4%					15%							60%	11%				4%		4%				2%						
Bivalvia (larvae)						5%	2%								18%	75%															
Fritillaria spp.					15%				3%		9%					74%															
Microcalanus spp.		6%		3%	3%			10%									48%		6%								3%	13%			6%
Chaetognatha									14%									79%		4%		4%									
Polychaeta (larvae)		5%			10%		15%						5%		5%		25%										10%	15%	5%		5%
Calanus spp.									7%											86%	7%										
Eurytemora spp.	30%		10%	30%																	10%										20%
Aglantha spp. (medusa)																			11%			67%								11%	11%
Oncaeidae spp.								17%				67%											17%								
Sarsia spp. (medusa)																					25%	25%					50%				
Ostracoda						100%																									
Tortanus spp.	50%																				50%										
Decapoda-non brachyura (larvae)																					100%										

			precision	recall	f1-score
Acartia spp. (n=2490-train=200)			0.73	0.47	0.57
Evadne spp. (n=1931-train=200)			0.96	0.77	0.85
Temora spp. (n=1416-train=200)			0.62	0.36	0.45
Pseudocalanus spp. (n=1044-train=200)			0.45	0.46	0.45
Oithona spp. (n=345-train=200)			0.51	0.81	0.63
Bryozoa (larvae) (n=248-train=119)			0.62	0.85	0.72
Podon/Pleopsis spp. (n=230-train=200)			0.23	0.23	0.23
Calanoida (ci-ciii) (n=130-train=200)			0.01	0.03	0.02
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)			0.33	0.28	0.30
Harpacticoida- epibenthic (n=47-train=136)			0.08	0.64	0.13
Hydrozoa (medusa) (n=47-train=21)			1.00	0.06	0.12
Gastropoda (larvae/Limacina) (n=47-train=110)			0.39	0.60	0.47
Bivalvia (larvae) (n=44-train=71)			0.73	0.75	0.74
Fritillaria spp. (n=34-train=200)			0.29	0.74	0.41
Microcalanus spp. (n=31-train=80)			0.07	0.48	0.12
Chaetognatha (n=28-train=67)			0.67	0.79	0.72
Polychaeta (larvae) (n=20-train=200)			0.08	0.25	0.13
Calanus spp. (n=14-train=200)			0.48	0.86	0.62
Eurytemora spp. (n=10-train=88)			0.01	0.10	0.01
Aglantha spp. (medusa) (n=9-train=21)			0.27	0.67	0.39
Oncaeidae spp. (n=6-train=16)			0.08	0.17	0.11
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)			0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=1-train=7)			0.00	0.00	0.00
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)			0.39	0.43	0.36
weighted avg			0.68	0.54	0.58
			precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

