

Use of SCN features: No
Max learning objects: 5000 objects/class
Strategy N° 8

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

Confusion Matrix – In percent of Actual Value

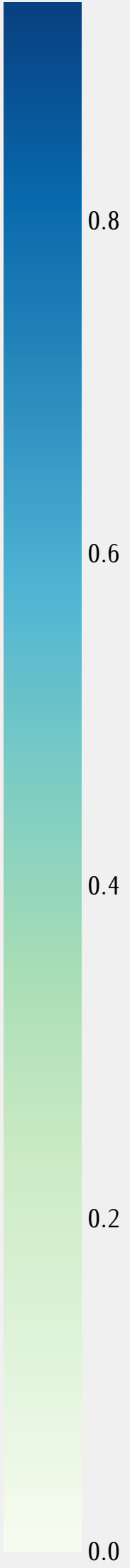
Classification Report Matrix
max 5000 learning objects per class

Actual Values

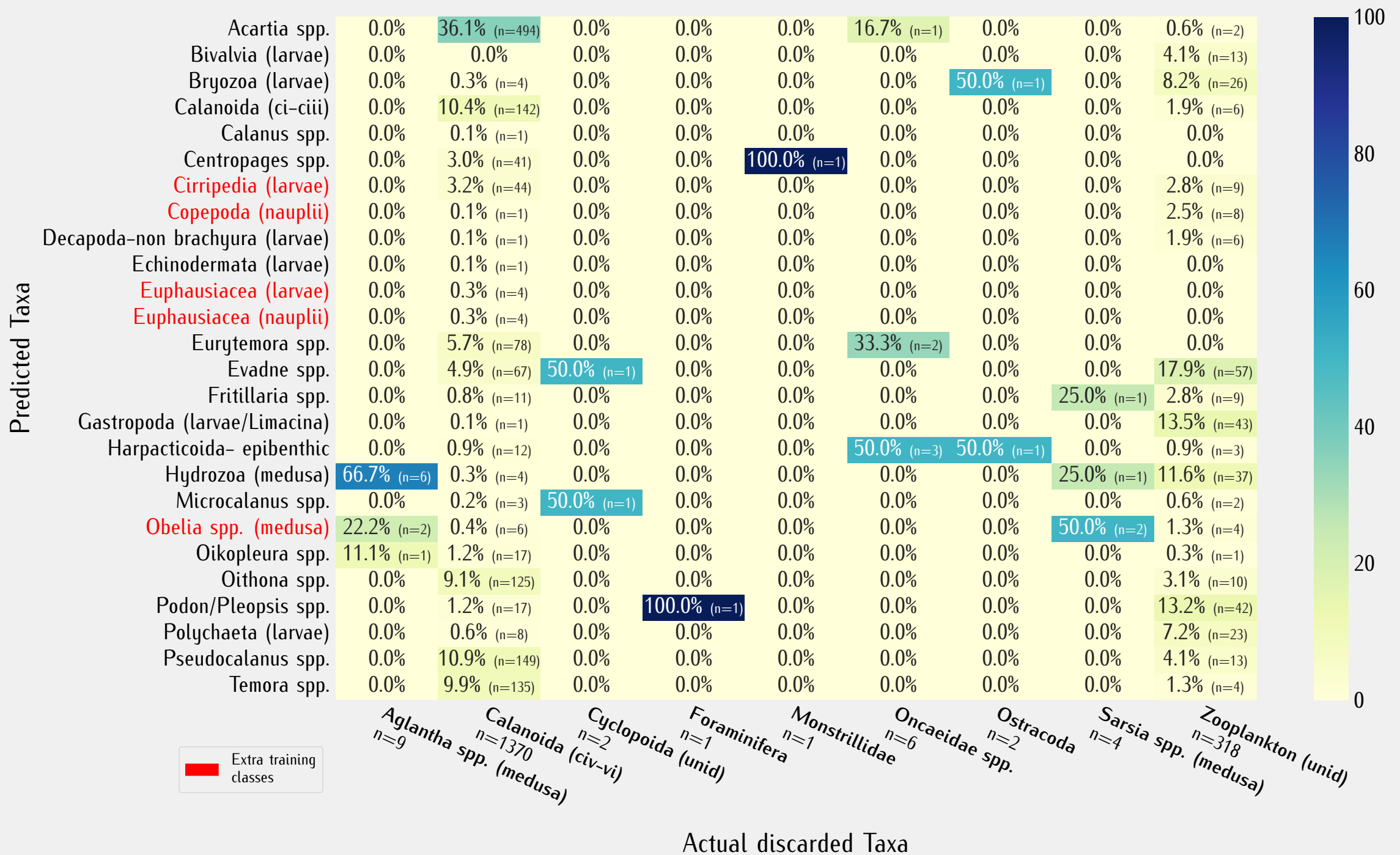
	Predicted Values																											
	Acartia spp.	Evadne spp.	Temora spp.	Pseudocalanus spp.	Oithona spp.	Bryozoa (larvae)	Podon/Pleopsis spp.	Calanoida (ci-ciii)	Oikopleura spp.	Centropages spp.	Echinodermata (larvae)	Gastropoda (larvae/Limacina)	Harpacticoida- epibenthic	Hydrozoa (medusa)	Bivalvia (larvae)	Fritillaria spp.	Microcalanus spp.	Chaetognatha	Polychaeta (larvae)	Calanus spp.	Eurytemora spp.	Tortanus spp.	Decapoda-non brachyura (larvae)	Cirripedia (larvae)	Copepoda (nauplii)	Obelia spp. (medusa)	Euphausiacea (larvae)	Euphausiacea (nauplii)
Acartia spp.	64%	<1%	8%	10%	2%			3%	<1%	7%			<1%			<1%	<1%		<1%		4%	<1%		<1%		<1%	<1%	<1%
Evadne spp.	<1%	85%	<1%	<1%	<1%	<1%	4%	<1%		<1%	2%	<1%	5%	<1%		<1%			<1%				2%	<1%	<1%			
Temora spp.	13%	2%	52%	9%	1%	<1%	<1%	6%		7%			<1%			<1%	<1%		5%			2%		<1%	<1%	<1%		
Pseudocalanus spp.	20%		9%	53%				3%		8%			<1%			<1%	<1%	<1%	5%		<1%				<1%	<1%		
Oithona spp.	10%	<1%	<1%		78%			2%	1%	2%	<1%				3%				1%			<1%		<1%				
Bryozoa (larvae)		15%			<1%	61%	2%	2%			<1%		<1%	9%		<1%		<1%				5%	2%	<1%				
Podon/Pleopsis spp.	<1%	11%	20%	2%		2%	23%	4%	<1%	<1%			<1%	<1%		<1%		16%		3%		5%	8%	<1%	2%			
Calanoida (ci-ciii)	12%	9%	14%	4%	4%		10%	25%		5%		<1%				<1%	4%		2%	<1%	2%		<1%	5%	2%			
Oikopleura spp.	<1%		2%	<1%	<1%				76%							7%		2%		<1%		7%				3%	<1%	
Centropages spp.	9%		2%	1%						81%										1%		5%	1%					
Echinodermata (larvae)	2%				16%		2%	2%	6%		14%			2%		46%			2%			2%	2%		2%			2%
Gastropoda (larvae/Limacina)		2%					2%					66%		4%	13%			13%										
Harpacticoida- epibenthic	15%	2%	6%	11%	2%			4%					45%						13%								2%	
Hydrozoa (medusa)		2%				4%	4%				2%			32%		4%						2%	11%		38%			
Bivalvia (larvae)						2%	2%				7%		5%	73%				2%							9%			
Fritillaria spp.					6%			32%								62%												
Microcalanus spp.		6%	6%	10%			6%	32%									19%		6%		10%			3%				
Chaetognatha									25%										68%	4%			4%					
Polychaeta (larvae)				5%			5%				5%	5%					45%					5%	30%					
Calanus spp.				7%						7%										71%		14%						
Eurytemora spp.	20%		10%	30%						30%											10%							
Tortanus spp.										50%												50%						
Decapoda-non brachyura (larvae)																				100%								

Extra
training
classes

	Classification Report Matrix		
	precision	recall	f1-score
Acartia spp. (n=2490-train=5000)	0.77	0.64	0.70
Evadne spp. (n=1931-train=5000)	0.93	0.85	0.89
Temora spp. (n=1416-train=5000)	0.66	0.52	0.59
Pseudocalanus spp. (n=1044-train=4845)	0.59	0.53	0.56
Oithona spp. (n=345-train=5000)	0.76	0.78	0.77
Bryozoa (larvae) (n=248-train=1142)	0.89	0.61	0.72
Podon/Pleopsis spp. (n=230-train=5000)	0.35	0.23	0.28
Calanoida (ci-ciii) (n=130-train=5000)	0.13	0.25	0.17
Oikopleura spp. (n=115-train=5000)	0.74	0.76	0.75
Centropages spp. (n=88-train=3620)	0.16	0.81	0.26
Echinodermata (larvae) (n=50-train=3043)	0.64	0.14	0.23
Gastropoda (larvae/Limacina) (n=47-train=3272)	0.38	0.66	0.48
Harpacticoida- epibenthic (n=47-train=555)	0.43	0.45	0.44
Hydrozoa (medusa) (n=47-train=4052)	0.11	0.32	0.16
Bivalvia (larvae) (n=44-train=3764)	0.80	0.73	0.76
Fritillaria spp. (n=34-train=5000)	0.24	0.62	0.34
Microcalanus spp. (n=31-train=80)	0.38	0.19	0.26
Chaetognatha (n=28-train=89)	0.90	0.68	0.78
Polychaeta (larvae) (n=20-train=1577)	0.13	0.45	0.21
Calanus spp. (n=14-train=359)	0.59	0.71	0.65
Eurytemora spp. (n=10-train=1818)	0.00	0.10	0.01
Tortanus spp. (n=2-train=203)	0.12	0.50	0.20
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)	0.46	0.50	0.44
weighted avg	0.73	0.64	0.67
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

