

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 7

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

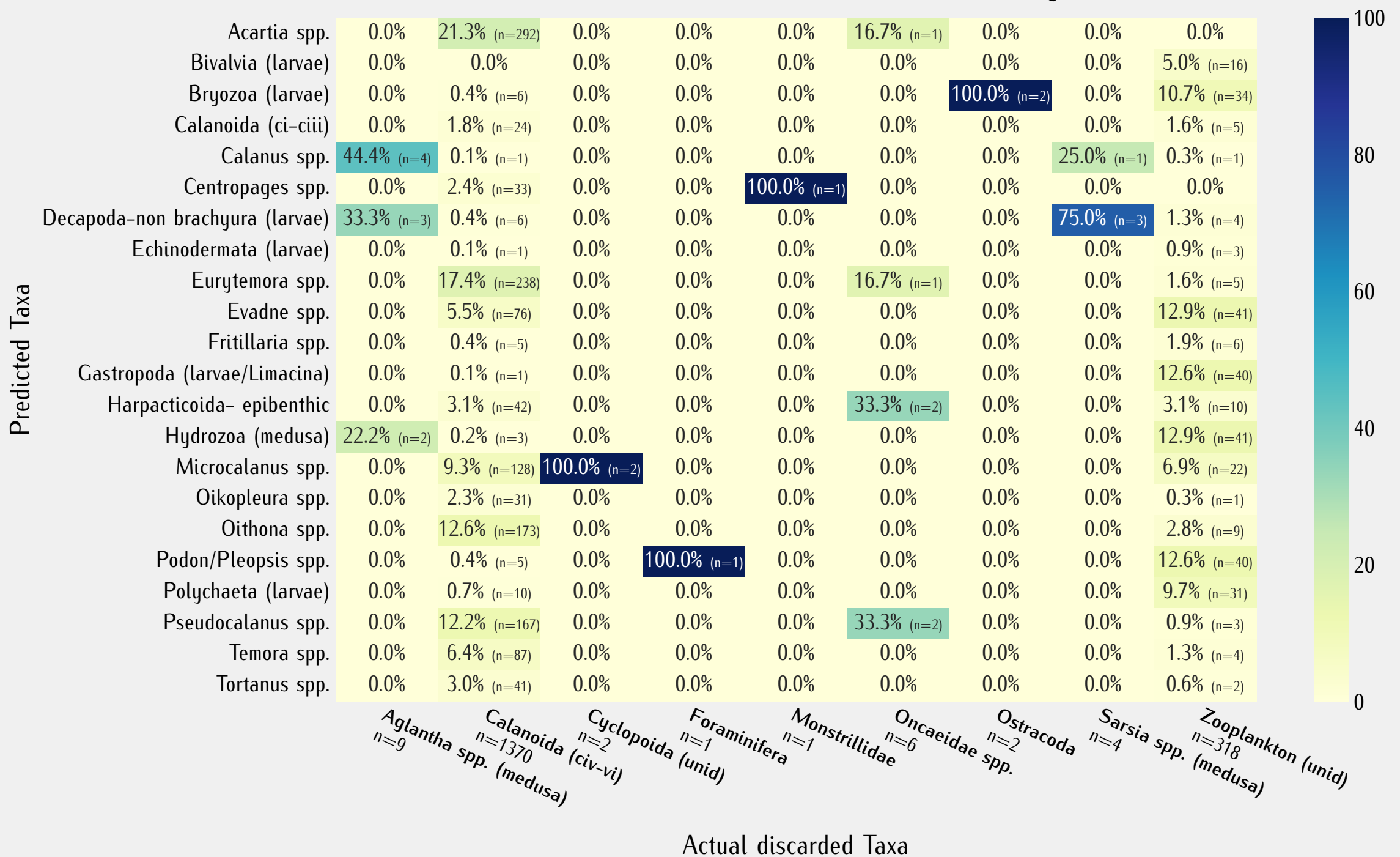
Confusion Matrix - In percent of Actual Value

Classification Report Matrix
max 200 learning objects per class

Actual Values	Confusion Matrix - In percent of Actual Value																								
	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)		
Acartia spp.	42%	<1%	4%	16%	2%			<1%	<1%	9%				3%			<1%	3%		<1%		13%	7%		
Evadne spp.		77%	<1%	<1%	<1%	1%	4%	<1%			<1%	1%	<1%	12%			2%		<1%		<1%	<1%	<1%		
Temora spp.	10%	2%	37%	10%	5%	<1%		2%		7%			1%				4%		<1%		17%	3%	<1%		
Pseudocalanus spp.	19%		7%	43%	<1%			<1%		10%			2%				5%		<1%	<1%	10%	1%	1%		
Oithona spp.	14%	<1%	<1%	<1%	72%				<1%	1%	<1%		1%			<1%					5%	3%			
Bryozoa (larvae)		22%				53%	<1%				3%	<1%	9%	8%		<1%	<1%		2%						
Podon/Pleopsis spp.		10%	15%	2%	<1%	<1%	5%		<1%	<1%		<1%	1%	<1%			28%		20%		6%	<1%	9%		
Calanoida (ci-ciii)	12%	15%	3%	4%	6%	2%	7%	2%		3%			5%				26%		3%	<1%	6%	3%	2%		
Oikopleura spp.			2%	<1%	3%				40%		<1%					7%		34%		<1%	2%	3%	8%		
Centropages spp.	6%		1%	1%						65%												20%	7%		
Echinodermata (larvae)	4%	2%			30%		2%		6%		14%					30%			2%			8%	2%		
Gastropoda (larvae/Limacina)							2%					64%		13%	6%				15%						
Harpacticoida- epibenthic	4%	2%	4%	15%	2%			2%					53%	2%							13%	2%			
Hydrozoa (medusa)		2%	11%	4%	2%	6%				2%				34%		6%	6%			11%	2%	4%	9%		
Bivalvia (larvae)						11%	2%				7%			9%	70%										
Fritillaria spp.					18%				35%		3%					44%									
Microcalanus spp.		10%		3%			3%	3%									55%		3%		19%	3%			
Chaetognatha									14%									82%		4%					
Polychaeta (larvae)	5%	20%			10%						10%		5%				10%		20%		10%	5%	5%		
Calanus spp.																				93%		7%			
Eurytemora spp.			10%	30%						40%			10%									10%			
Tortanus spp.																				50%		50%			
Decapoda-non brachyura (larvae)																				100%					

	Classification Report Matrix max 200 learning objects per class		
	precision	recall	f1-score
Acartia spp. (n=2490-train=200)	0.72	0.42	0.53
Evadne spp. (n=1931-train=200)	0.91	0.77	0.83
Temora spp. (n=1416-train=200)	0.69	0.37	0.48
Pseudocalanus spp. (n=1044-train=200)	0.44	0.43	0.43
Oithona spp. (n=345-train=200)	0.59	0.72	0.65
Bryozoa (larvae) (n=248-train=200)	0.78	0.53	0.63
Podon/Pleopsis spp. (n=230-train=200)	0.11	0.05	0.07
Calanoida (ci-ciïi) (n=130-train=200)	0.04	0.02	0.02
Oikopleura spp. (n=115-train=200)	0.63	0.40	0.49
Centropages spp. (n=88-train=200)	0.12	0.65	0.20
Echinodermata (larvae) (n=50-train=200)	0.25	0.14	0.18
Gastropoda (larvae/Limacina) (n=47-train=200)	0.48	0.64	0.55
Harpacticoida- epibenthic (n=47-train=200)	0.14	0.53	0.22
Hydrozoa (medusa) (n=47-train=200)	0.06	0.34	0.10
Bivalvia (larvae) (n=44-train=200)	0.91	0.70	0.79
Fritillaria spp. (n=34-train=200)	0.30	0.44	0.36
Microcalanus spp. (n=31-train=80)	0.05	0.55	0.09
Chaetognatha (n=28-train=89)	0.37	0.82	0.51
Polychaeta (larvae) (n=20-train=200)	0.05	0.20	0.08
Calanus spp. (n=14-train=200)	0.48	0.93	0.63
Eurytemora spp. (n=10-train=200)	0.00	0.10	0.00
Tortanus spp. (n=2-train=200)	0.00	0.50	0.01
Decapoda-non brachyura (larvae) (n=1-train=200)	0.00	0.00	0.00
macro avg	0.35	0.45	0.34
weighted avg	0.67	0.50	0.55
	precision	recall	f1-score

Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

