

Use of SCN features: No  
Max learning objects: 5000 objects/class  
Strategy N° 6

PA Selected Samples prediction using all regions training set,  
Learning with all classes present in the selected samples, with extra regional training categories,  
No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

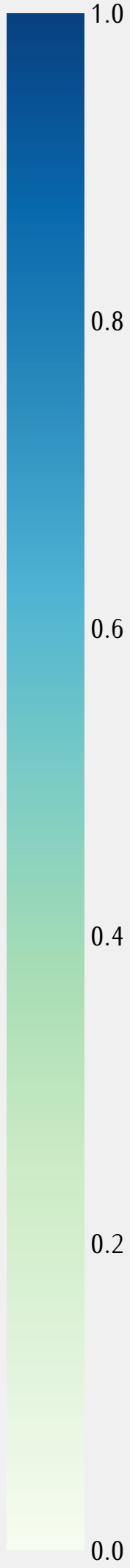
Classification Report Matrix  
max 5000 learning objects per class

Actual Values

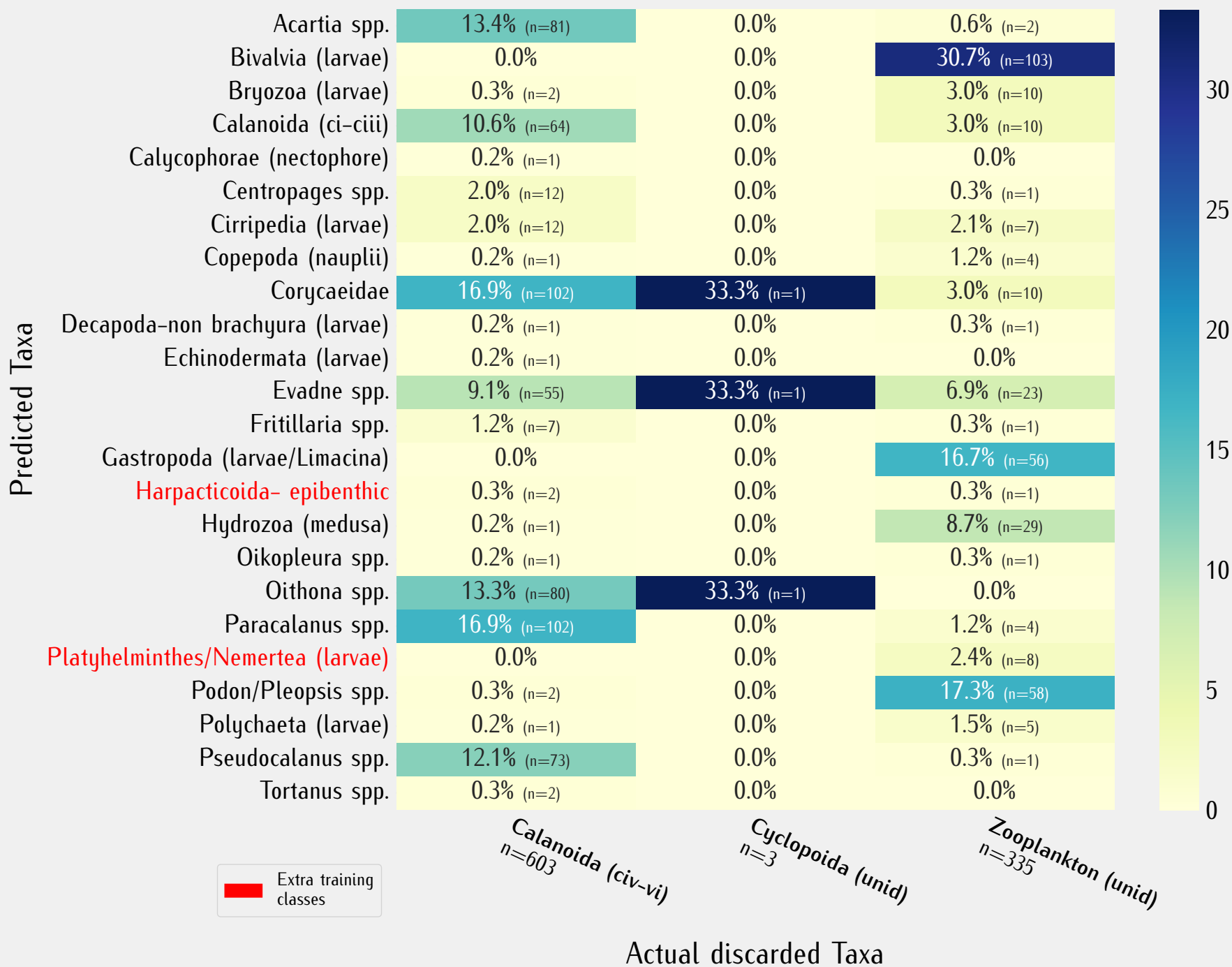
Cirripedia (larvae)	72%	<1%	<1%	11%	<1%	6%	<1%	<1%	<1%	1%		<1%	<1%	<1%	1%	1%	<1%		<1%	<1%	<1%		<1%	<1%		<1%		<1%
Acartia spp.	<1%	44%	<1%	<1%	<1%	<1%	13%	4%	11%			<1%	2%		<1%	<1%		<1%	<1%	17%	5%					<1%		
Oikopleura spp.	<1%	1%	69%	2%	15%	2%	<1%	1%	<1%	<1%		<1%	<1%	<1%	2%			<1%		<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
Podon/Pleopsis spp.	10%	<1%	<1%	44%		22%	3%	2%	8%	1%		2%	2%	<1%		<1%	1%	<1%			<1%	<1%	<1%		2%	<1%	<1%	<1%
Fritillaria spp.	<1%	1%	24%		60%	<1%	<1%	<1%	<1%			2%		2%						<1%	6%			<1%	<1%	<1%	<1%	<1%
Evadne spp.	4%		<1%	5%		67%	1%	3%	3%	2%	1%		9%		<1%	<1%		<1%			<1%		<1%		2%			
Corycaeidae	<1%	9%	1%	1%	<1%	<1%	70%	<1%	5%					2%		<1%		<1%		<1%	<1%	<1%	2%	3%		<1%	1%	
Calanoida (ci-ciii)	11%	2%	<1%	13%		13%	13%	17%	5%			2%			4%						13%			3%	<1%	2%		
Paracalanus spp.	<1%	4%	<1%	1%		1%	<1%	2%	60%			<1%		1%			<1%					26%						
Gastropoda (larvae/Limacina)	3%	<1%		14%		11%		2%	2%	56%	6%						<1%				3%			<1%				
Bivalvia (larvae)				5%			1%			5%	80%		4%											2%			2%	
Polychaeta (larvae)	15%			14%		12%	2%	2%		2%		28%	3%		8%	2%		3%		2%		6%		2%	2%			
Hydrozoa (medusa)		2%				5%		4%	2%	2%		13%	64%		4%		2%	2%				2%						
Centropages spp.		16%	2%		2%			2%						42%				2%		6%			20%	8%				
Echinodermata (larvae)					2%	2%						5%	81%		5%		2%	2%										
Calycophorae (nectophore)								3%				3%	3%	5%	73%			11%				3%						
Decapoda-brachyura (zoeae)		6%		3%										16%		6%	41%		9%			6%	9%		3%			
Ctenophora (larvae)	3%			6%		13%				10%		26%	29%		3%		10%											
Decapoda-non brachyura (larvae)							4%					4%							73%				15%				4%	
Ostracoda						32%	4%				28%		4%							12%								20%
Tortanus spp.	8%	4%												29%		25%	4%			25%		4%						
Ascidiaacea (larvae)			9%		17%																74%							
Oithona spp.		29%	6%		18%									12%								35%						
Pseudocalanus spp.																							100%					
Calanus spp.														17%				50%				17%	17%					
Copepoda (nauplii)				25%			25%																		50%			
Euphysa spp. (medusa)															100%													
Bryozoa (larvae)	100%																											

Extra  
training  
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=5000)	0.94	0.72	0.82
Acartia spp. (n=2290-train=5000)	0.91	0.44	0.60
Oikopleura spp. (n=1773-train=5000)	0.89	0.69	0.78
Podon/Pleopsis spp. (n=607-train=5000)	0.36	0.44	0.40
Fritillaria spp. (n=475-train=5000)	0.48	0.60	0.54
Evadne spp. (n=358-train=5000)	0.35	0.67	0.46
Corycaeidae (n=335-train=1760)	0.39	0.70	0.50
Calanoida (ci-ciüi) (n=150-train=5000)	0.14	0.17	0.15
Paracalanus spp. (n=141-train=1619)	0.19	0.60	0.29
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.48	0.56	0.52
Bivalvia (larvae) (n=96-train=3764)	0.81	0.80	0.81
Polychaeta (larvae) (n=65-train=1577)	0.25	0.28	0.26
Hydrozoa (medusa) (n=55-train=4052)	0.19	0.64	0.30
Centropages spp. (n=50-train=3620)	0.21	0.42	0.28
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.21	0.73	0.32
Decapoda-brachyura (zoeae) (n=32-train=628)	0.27	0.41	0.33
Ctenophora (larvae) (n=31-train=42)	0.33	0.10	0.15
Decapoda-non brachyura (larvae) (n=26-train=423)	0.43	0.73	0.54
Ostracoda (n=25-train=25)	0.14	0.12	0.13
Tortanus spp. (n=24-train=203)	0.33	0.25	0.29
Ascidiaacea (larvae) (n=23-train=861)	0.57	0.74	0.64
Oithona spp. (n=17-train=5000)	0.01	0.35	0.02
Pseudocalanus spp. (n=7-train=4845)	0.04	1.00	0.07
Calanus spp. (n=6-train=359)	0.08	0.17	0.11
Copepoda (nauplii) (n=4-train=5000)	0.05	0.50	0.09
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00
Bryozoa (larvae) (n=1-train=1142)	0.00	0.00	0.00
Harpacticoida- epibenthic (n=0-train=555)	-	-	-
Platyhelminthes/Nemertea (larvae) (n=0-train=183)	-	-	-
macro avg (corr)	0.32	0.46	0.34
weighted avg	0.77	0.60	0.65
	precision	recall	f1-score



# Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

