

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 1

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

Confusion Matrix – In percent of Actual Value

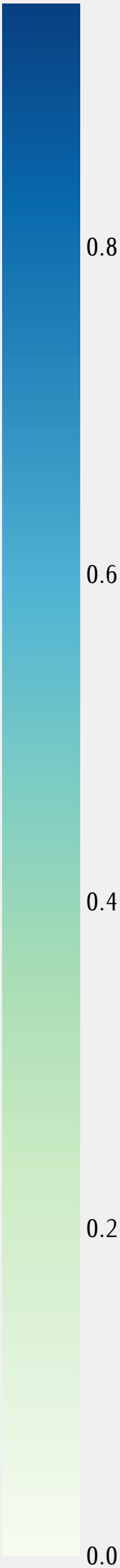
Classification Report Matrix
max 200 learning objects per class

Actual Values

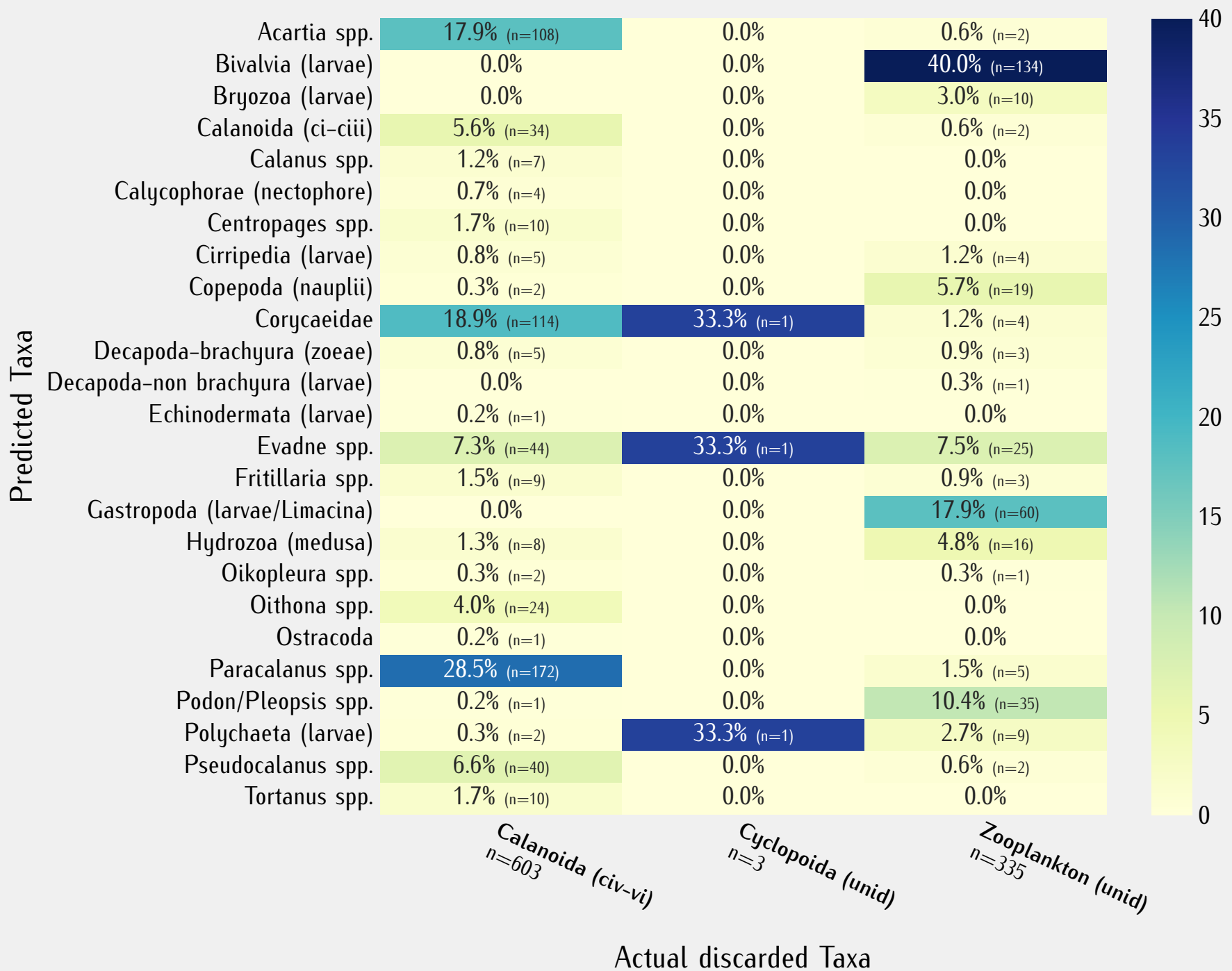
Cirripedia (larvae)	54%	2%	<1%	8%	<1%	4%		4%	2%	3%	<1%	<1%	2%		3%	1%	6%	<1%		1%	3%		<1%	<1%	<1%	4%		<1%
Acartia spp.	<1%	41%	<1%		1%	<1%	20%	3%	14%			<1%		2%		<1%	<1%			<1%	2%		7%	7%	<1%	<1%		
Oikopleura spp.	<1%	1%	64%	<1%	9%	2%	<1%	1%	1%	<1%	<1%	<1%	<1%	1%	3%	4%	<1%	<1%	<1%	<1%	<1%	5%	<1%	<1%	<1%	1%		<1%
Podon/Pleopsis spp.	4%	<1%	<1%	16%	<1%	14%	<1%	15%	13%	1%	<1%	2%	13%	<1%		<1%	2%	<1%		<1%			<1%	<1%		15%		<1%
Fritillaria spp.	<1%	3%	27%		52%	2%	1%		<1%			<1%	<1%		7%	<1%						4%	1%			<1%		
Evadne spp.	6%	<1%	<1%	5%		63%	<1%	1%	6%	1%	3%	<1%	7%		1%	<1%		<1%		<1%						<1%		2%
Corycaeidae	<1%	7%	2%	1%		1%	64%	3%	7%			2%		1%		<1%			<1%		1%		<1%	7%	<1%	<1%		
Calanoida (ci-ciii)	8%	5%		5%	2%	9%	6%	32%	5%			5%	<1%		9%								3%			8%		1%
Paracalanus spp.		2%				<1%	2%		52%				1%	2%				<1%			2%			32%	5%			
Gastropoda (larvae/Limacina)	2%	2%		10%	2%	6%		2%	3%	51%	7%	<1%	2%									<1%			9%		2%	
Bivalvia (larvae)				3%				1%		9%	82%									1%						1%		2%
Polychaeta (larvae)	15%	2%		11%	2%	3%	5%	6%	6%	2%		8%	9%	2%	2%	2%	5%		5%		2%			11%		5%		2%
Hydrozoa (medusa)						4%			4%				85%	2%		2%	2%									2%		
Centropages spp.		10%	2%						2%					24%		2%	8%		10%		20%			14%	8%			
Echinodermata (larvae)				5%	2%	60%			2%			2%	21%			2%	2%									2%		
Calycophorae (nectophore)					3%								8%			70%			8%		5%			3%	3%			
Decapoda-brachyura (zoeae)							3%		3%				3%	3%		3%	72%		6%		3%			3%				
Ctenophora (larvae)				3%		13%			3%		3%		61%					10%								6%		
Decapoda-non brachyura (larvae)						4%	4%						15%				4%		73%									
Ostracoda				4%		12%				8%	32%	4%								40%								
Tortanus spp.		4%							4%					8%		12%	8%		12%		50%							
Ascidacea (larvae)			4%		4%																	91%						
Oithona spp.		35%	6%		18%								12%						6%				24%					
Pseudocalanus spp.																	14%		14%					57%	14%			
Calanus spp.													17%						17%						67%			
Copepoda (nauplii)								25%																		75%		
Euphysa spp. (medusa)																67%	33%											
Bryozoa (larvae)	100%																											
Cirripedia (larvae)		Acartia spp.	Oikopleura spp.	Podon/Pleopsis spp.	Fritillaria spp.	Evadne spp.	Corycaeidae	Calanoida (ci-ciii)	Paracalanus spp.	Gastropoda (larvae/Limacina)	Bivalvia (larvae)	Polychaeta (larvae)	Hydrozoa (medusa)	Centropages spp.	Echinodermata (larvae)	Calycophorae (larvae)	Decapoda-brachyura (zoeae)	Ctenophora (larvae)	Decapoda-non brachyura (larvae)	Ostracoda	Tortanus spp.	Ascidacea (larvae)	Oithona spp.	Pseudocalanus spp.	Calanus spp.	Copepoda (nauplii)	Euphysa spp. (medusa)	Bryozoa (larvae)

Predicted Values

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=200)	0.95	0.54	0.68
Acartia spp. (n=2290-train=200)	0.86	0.41	0.56
Oikopleura spp. (n=1773-train=200)	0.88	0.64	0.74
Podon/Pleopsis spp. (n=607-train=200)	0.23	0.16	0.19
Fritillaria spp. (n=475-train=200)	0.53	0.52	0.52
Evadne spp. (n=358-train=200)	0.42	0.63	0.50
Corycaeidae (n=335-train=200)	0.30	0.64	0.41
Calanoida (ci-ciii) (n=150-train=200)	0.12	0.32	0.18
Paracalanus spp. (n=141-train=200)	0.12	0.52	0.19
Gastropoda (larvae/Limacina) (n=126-train=200)	0.34	0.51	0.41
Bivalvia (larvae) (n=96-train=119)	0.63	0.82	0.71
Polychaeta (larvae) (n=65-train=200)	0.10	0.08	0.09
Hydrozoa (medusa) (n=55-train=200)	0.17	0.85	0.29
Centropages spp. (n=50-train=119)	0.12	0.24	0.16
Echinodermata (larvae) (n=42-train=200)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=200)	0.15	0.70	0.25
Decapoda-brachyura (zoeae) (n=32-train=200)	0.09	0.72	0.17
Ctenophora (larvae) (n=31-train=29)	0.25	0.10	0.14
Decapoda-non brachyura (larvae) (n=26-train=200)	0.41	0.73	0.53
Ostracoda (n=25-train=18)	0.19	0.40	0.26
Tortanus spp. (n=24-train=88)	0.06	0.50	0.11
Ascidiaecia (larvae) (n=23-train=54)	0.16	0.91	0.27
Oithona spp. (n=17-train=44)	0.02	0.24	0.04
Pseudocalanus spp. (n=7-train=65)	0.02	0.57	0.03
Calanus spp. (n=6-train=37)	0.11	0.67	0.19
Copepoda (nauplii) (n=4-train=200)	0.01	0.75	0.02
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00
Bryozoa (larvae) (n=1-train=50)	0.00	0.00	0.00
macro avg	0.26	0.47	0.27
weighted avg	0.74	0.50	0.57
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

