

Use of SCN features: No
Max learning objects: 5000 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 5000 learning objects per class

Actual Values

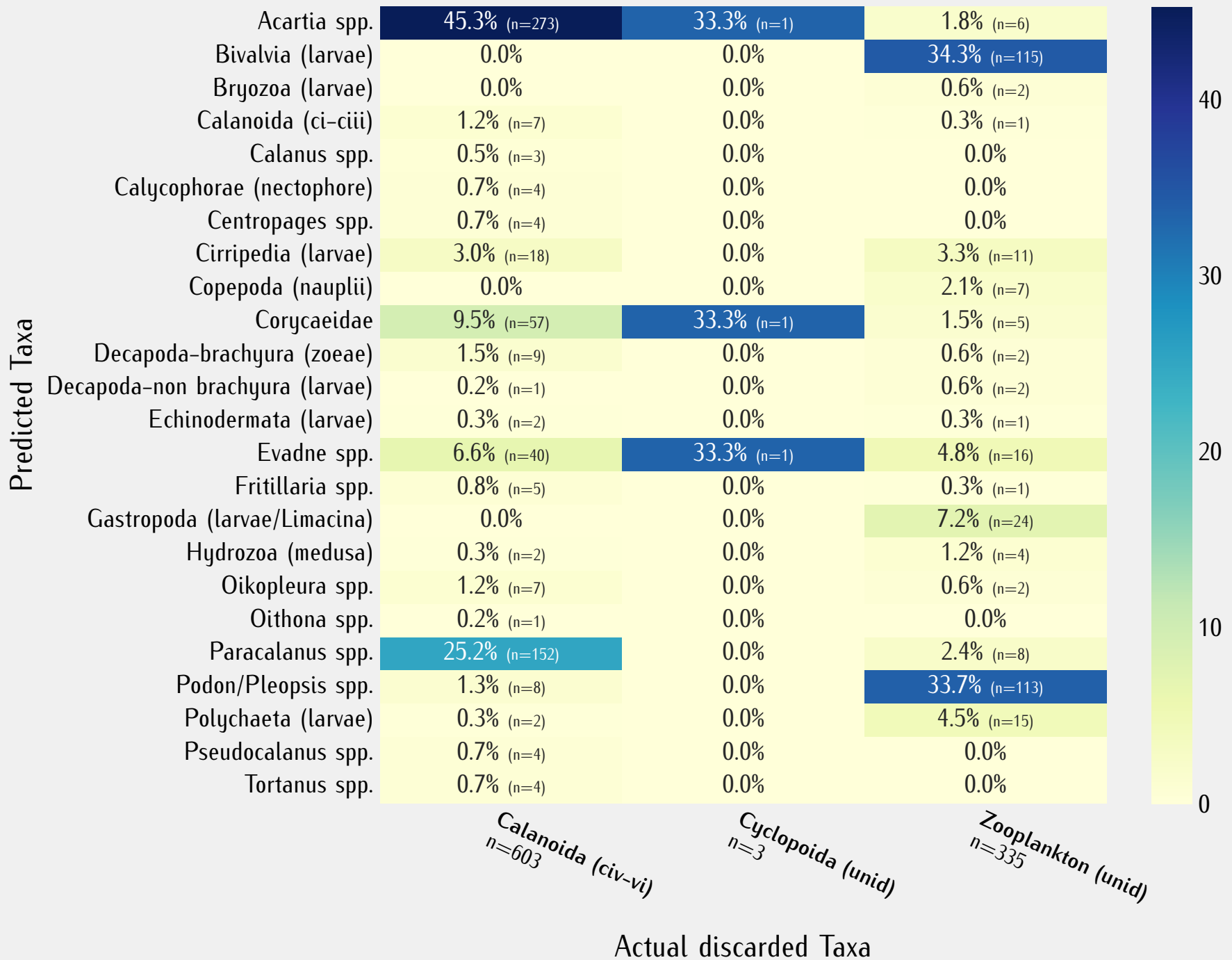
Cirripedia (larvae)	77%	1%	<1%	13%	<1%	1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%		1%	1%	1%			<1%				<1%		<1%		
Acartia spp.	1%	79%	<1%	<1%	<1%	<1%	6%	<1%	9%			<1%		<1%	<1%	<1%	<1%			<1%		<1%	<1%					
Oikopleura spp.	2%	2%	82%	3%	2%	2%	<1%	<1%	1%		<1%	<1%	<1%	<1%	2%	3%	<1%	<1%	<1%		<1%	<1%		<1%		<1%		
Podon/Pleopsis spp.	10%	1%	<1%	54%		10%	1%	4%	10%			2%	3%			<1%	2%							<1%	3%			
Fritillaria spp.	<1%	5%	45%	<1%	41%	2%	<1%		<1%			<1%	<1%		4%						<1%	<1%						
Evadne spp.	6%	1%	<1%	10%		70%	<1%		4%		<1%	<1%	4%		1%	<1%		<1%							<1%			
Corycaeidae	<1%	13%	2%	1%		<1%	72%	1%	5%			<1%		<1%		1%	<1%				<1%		<1%	<1%				
Calanoida (ci-ciii)	15%	16%	<1%	13%		5%	11%	16%	7%			3%			9%									4%		<1%		
Paracalanus spp.	<1%	9%	<1%	1%		1%	<1%		80%			<1%	<1%				<1%						2%	2%				
Gastropoda (larvae/Limacina)	6%	4%		37%		6%		2%	3%	30%	8%	2%	<1%		<1%									2%				
Bivalvia (larvae)				12%		1%	1%			4%	80%													1%				
Polychaeta (larvae)	25%	5%		15%		5%	3%	2%	3%			26%	3%			2%	2%	2%	6%					2%		2%		
Hydrozoa (medusa)			2%	2%		4%			4%			2%	80%			5%	2%											
Centropages spp.		24%	4%				2%					2%		20%			18%		16%		10%			2%	2%			
Echinodermata (larvae)	5%			14%	2%	50%			2%				12%			10%		2%						2%				
Calycophorae (nectophore)								3%				3%	8%			78%	5%		3%									
Decapoda-brachyura (zoeae)	3%	3%		3%					6%							3%	62%		12%		3%		3%					
Ctenophora (larvae)	3%			13%		10%						16%	52%			3%		3%										
Decapoda-non brachyura (larvae)		4%				4%						4%	8%				8%		73%									
Ostracoda				28%		40%	4%				24%								4%									
Tortanus spp.		8%												12%		21%	21%			38%								
Ascidacea (larvae)			48%																		52%							
Oithona spp.		47%	12%		12%		6%							12%				6%				6%						
Pseudocalanus spp.									14%					14%			14%		14%				43%					
Calanus spp.													17%				33%		50%									
Copepoda (nauplii)				25%				25%																50%				
Euphysa spp. (medusa)												33%				67%												
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 (larvae)	Centropages spp.	Echinodermata (larvae)	Calycophorae (nectophore)	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=5000)	0.93	0.77	0.84
Acartia spp. (n=2290-train=4410)	0.89	0.79	0.83
Oikopleura spp. (n=1773-train=4507)	0.84	0.82	0.83
Podon/Pleopsis spp. (n=607-train=3605)	0.35	0.54	0.43
Fritillaria spp. (n=475-train=844)	0.80	0.41	0.55
Evadne spp. (n=358-train=981)	0.54	0.70	0.61
Corycaeidae (n=335-train=1760)	0.57	0.72	0.63
Calanoida (ci-ciii) (n=150-train=313)	0.27	0.16	0.20
Paracalanus spp. (n=141-train=1525)	0.24	0.80	0.37
Gastropoda (larvae/Limacina) (n=126-train=291)	0.68	0.30	0.42
Bivalvia (larvae) (n=96-train=119)	0.71	0.80	0.75
Polychaeta (larvae) (n=65-train=661)	0.25	0.26	0.26
Hydrozoa (medusa) (n=55-train=301)	0.34	0.80	0.48
Centropages spp. (n=50-train=119)	0.26	0.20	0.22
Echinodermata (larvae) (n=42-train=2649)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.20	0.78	0.31
Decapoda-brachyura (zoeae) (n=32-train=343)	0.19	0.62	0.29
Ctenophora (larvae) (n=31-train=29)	0.20	0.03	0.06
Decapoda-non brachyura (larvae) (n=26-train=219)	0.41	0.73	0.53
Ostracoda (n=25-train=18)	0.07	0.04	0.05
Tortanus spp. (n=24-train=88)	0.31	0.38	0.34
Ascidiaece (larvae) (n=23-train=54)	0.75	0.52	0.62
Oithona spp. (n=17-train=44)	0.06	0.06	0.06
Pseudocalanus spp. (n=7-train=65)	0.19	0.43	0.26
Calanus spp. (n=6-train=37)	0.00	0.00	0.00
Copepoda (nauplii) (n=4-train=233)	0.03	0.50	0.06
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	0.36	0.43	0.36
weighted avg	0.78	0.71	0.73
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

