

Use of SCN features: Yes
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

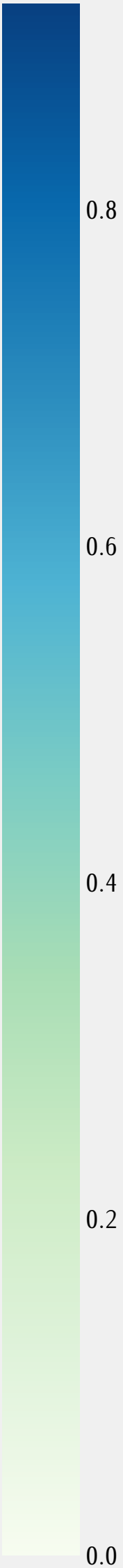
Classification Report Matrix
max 5000 learning objects per class

Actual Values

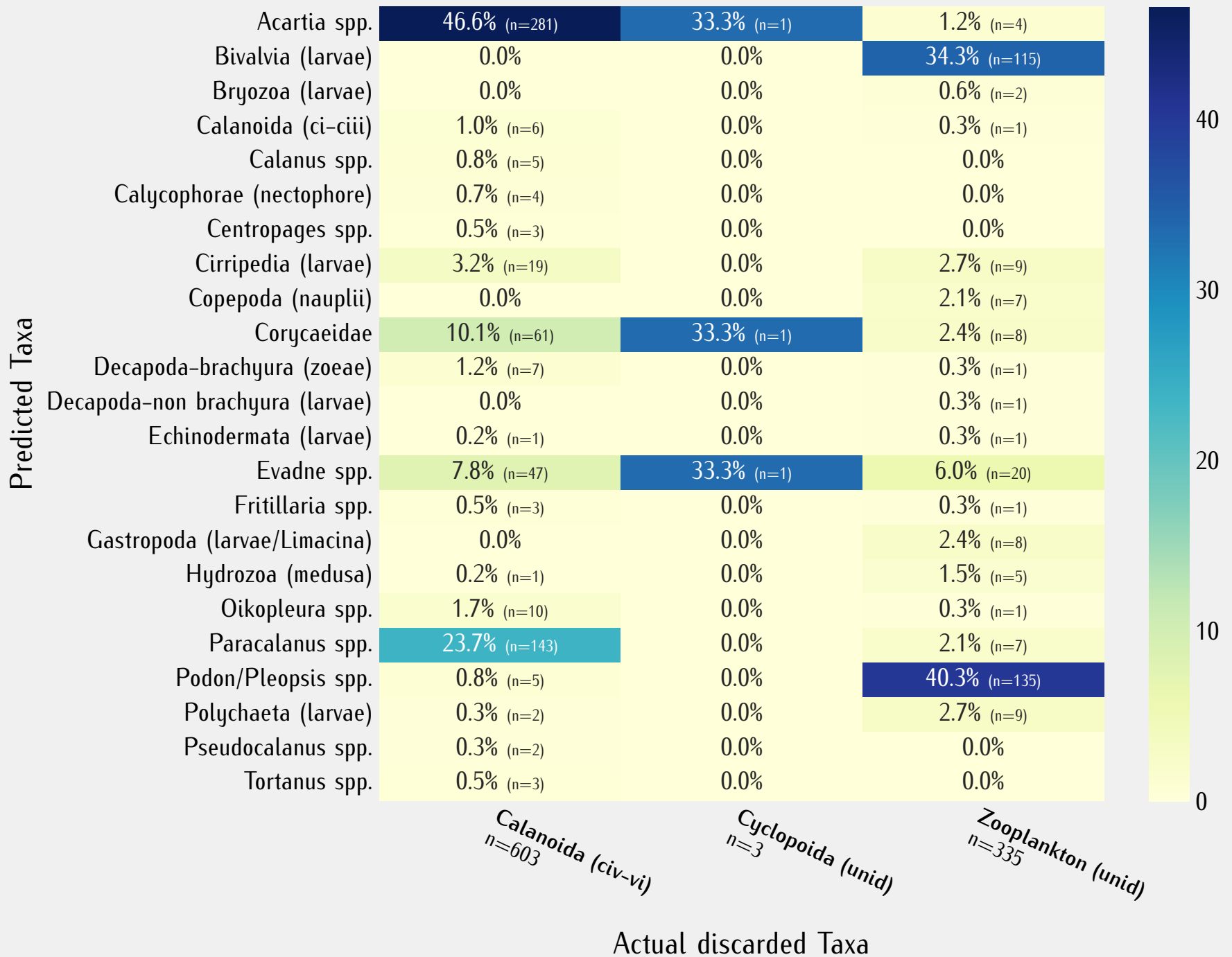
Cirripedia (larvae)	74%	2%	<1%	15%	<1%	2%		<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	1%	2%			<1%	<1%			<1%		<1%
Acartia spp.	1%	79%	<1%	<1%	<1%	<1%	7%	<1%	9%			<1%		<1%		<1%	<1%			<1%	<1%	<1%				
Oikopleura spp.	2%	2%	82%	3%	2%	1%	<1%	<1%	1%		<1%	<1%	<1%	<1%	2%	3%	<1%	<1%		<1%	<1%		<1%			
Podon/Pleopsis spp.	9%	2%	<1%	53%	<1%	11%	1%	2%	11%		<1%	3%	3%			<1%	2%							1%		
Fritillaria spp.	<1%	7%	53%	<1%	33%	2%	<1%		<1%				<1%		4%	<1%										
Evadne spp.	6%	1%	<1%	13%		66%	<1%	<1%	5%		<1%		5%		1%	<1%		<1%						<1%		
Corycaeidae	<1%	14%	2%	1%		<1%	71%	<1%	5%			<1%		<1%		1%	<1%		<1%		<1%		<1%			
Calanoida (ci-ciüi)	17%	17%	<1%	15%		4%	11%	12%	7%			4%			9%									3%		
Paracalanus spp.	<1%	7%	<1%	1%		1%	<1%		82%					<1%	<1%		<1%	<1%				1%	2%			
Gastropoda (larvae/Limacina)	6%	5%		46%		5%		2%	2%	21%	6%	2%	<1%		<1%									3%		
Bivalvia (larvae)				16%		1%	1%			2%	78%													2%		
Polychaeta (larvae)	26%	8%		18%		5%	5%		3%			18%	6%		2%	2%	3%		5%							
Hydrozoa (medusa)			2%	2%		4%			4%				82%			5%	2%									
Centropages spp.		24%	4%				2%		2%			2%		16%			10%		16%	14%			4%	6%		
Echinodermata (larvae)	2%			14%	2%	52%			5%				14%			7%								2%		
Calycophorae (nectophore)												3%	8%			78%	5%		5%							
Decapoda-brachyura (zoeae)									6%				3%			6%	75%		3%	3%			3%			
Ctenophora (larvae)	3%			13%		19%						3%	52%			3%		6%								
Decapoda-non brachyura (larvae)		4%				4%							12%				8%		73%							
Ostracoda				28%		40%	4%				24%								4%							
Tortanus spp.	4%	4%												8%		25%	12%		12%		33%					
Ascidiaacea (larvae)			61%																		39%					
Oithona spp.		59%	6%		12%		6%							12%					6%							
Pseudocalanus spp.									29%							14%		14%				43%				
Calanus spp.																17%		33%					50%			
Copepoda (nauplii)	25%			50%				25%																		
Euphysa spp. (medusa)															100%											
Bryozoa (larvae)	100%																									

Predicted Values

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=5000)	0.92	0.74	0.82
Acartia spp. (n=2290-train=4410)	0.88	0.79	0.83
Oikopleura spp. (n=1773-train=4507)	0.82	0.82	0.82
Podon/Pleopsis spp. (n=607-train=3605)	0.31	0.53	0.39
Fritillaria spp. (n=475-train=844)	0.80	0.33	0.46
Evadne spp. (n=358-train=981)	0.52	0.66	0.58
Corycaeidae (n=335-train=1760)	0.55	0.71	0.62
Calanoida (ci-ciüi) (n=150-train=313)	0.33	0.12	0.18
Paracalanus spp. (n=141-train=1525)	0.23	0.82	0.36
Gastropoda (larvae/Limacina) (n=126-train=291)	0.79	0.21	0.34
Bivalvia (larvae) (n=96-train=119)	0.77	0.78	0.78
Polychaeta (larvae) (n=65-train=661)	0.20	0.18	0.19
Hydrozoa (medusa) (n=55-train=301)	0.32	0.82	0.46
Centropages spp. (n=50-train=119)	0.22	0.16	0.19
Echinodermata (larvae) (n=42-train=2649)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.18	0.78	0.29
Decapoda-brachyura (zoeae) (n=32-train=343)	0.20	0.75	0.32
Ctenophora (larvae) (n=31-train=29)	0.50	0.06	0.11
Decapoda-non brachyura (larvae) (n=26-train=219)	0.45	0.73	0.56
Ostracoda (n=25-train=18)	0.07	0.04	0.05
Tortanus spp. (n=24-train=88)	0.31	0.33	0.32
Ascidiaacea (larvae) (n=23-train=54)	0.90	0.39	0.55
Oithona spp. (n=17-train=44)	0.00	0.00	0.00
Pseudocalanus spp. (n=7-train=65)	0.19	0.43	0.26
Calanus spp. (n=6-train=37)	0.27	0.50	0.35
Copepoda (nauplii) (n=4-train=233)	0.00	0.00	0.00
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	0.38	0.42	0.35
weighted avg	0.77	0.70	0.72
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

