

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 5

PA Selected Samples prediction using all regions 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

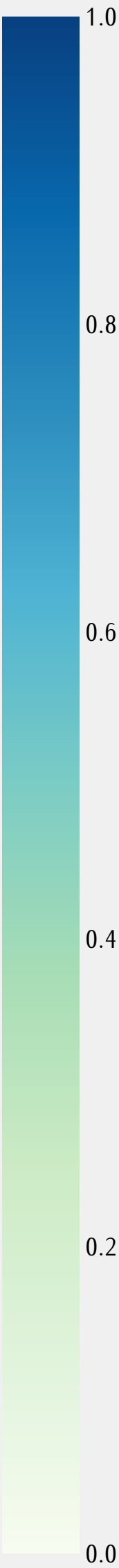
Actual Values

Cirripedia (larvae)	51%	<1%	<1%	11%	<1%	12%	<1%	<1%	1%	2%	<1%	<1%	1%	<1%	3%	1%	4%	<1%	<1%	2%	4%		3%	<1%		<1%		2%
Acartia spp.	<1%	16%	<1%	<1%	<1%	<1%	24%	<1%	30%			<1%		2%		<1%	<1%				4%	<1%	14%	8%				
Oikopleura spp.	<1%	<1%	62%	1%	18%	2%	<1%	<1%	1%	<1%		<1%	<1%	<1%	2%	3%	<1%	<1%	<1%	<1%	<1%	1%	2%	<1%		<1%		<1%
Podon/Pleopsis spp.	13%	<1%	<1%	24%		26%	<1%	<1%	15%	2%		4%	2%	<1%		<1%	1%	3%	<1%		<1%		1%	<1%		<1%		5%
Fritillaria spp.	<1%	1%	25%		47%	1%	4%		1%				1%		4%	<1%					<1%	2%	11%			<1%		<1%
Evadne spp.	4%		<1%	6%		44%	1%	<1%	7%	2%	<1%	<1%	17%		1%	<1%		6%		2%			<1%			<1%		6%
Corycaeidae	<1%	6%	1%	2%		<1%	67%		9%			1%		1%		<1%			<1%		2%		2%	4%				1%
Calanoida (ci-ciüi)	11%	3%		8%		21%	11%	2%	10%			5%			8%								11%			2%		7%
Paracalanus spp.		2%	<1%				<1%		57%			<1%		<1%				1%			3%			34%				
Gastropoda (larvae/Limacina)	2%			19%		10%			5%	48%	2%		2%					<1%					4%			2%		4%
Bivalvia (larvae)				4%			1%			12%	70%		9%								1%					1%		1%
Polychaeta (larvae)	11%	5%		12%		12%	3%		8%	2%		9%			2%		5%	8%	5%				3%	15%		2%		
Hydrozoa (medusa)									4%				24%	2%		13%	2%	55%	2%									
Centropages spp.		8%	2%				2%		6%					30%		2%			8%		18%			18%	6%			
Echinodermata (larvae)					2%	7%			5%			2%	67%			2%		7%	5%									2%
Calycophorae (nectophore)					3%									5%		65%		5%	14%				5%	3%				
Decapoda-brachyura (zoeae)		6%							3%					9%		3%	59%	3%	6%		3%		6%					
Ctenophora (larvae)	3%			3%		3%							26%			3%		48%										13%
Decapoda-non brachyura (larvae)							4%						4%	4%				8%	65%					15%				
Ostracoda							4%			8%	28%		4%							56%								
Tortanus spp.														21%		17%	12%				46%		4%					
Ascidiaacea (larvae)			26%		13%																	61%						
Oithona spp.		35%	6%				6%												6%		6%		41%					
Pseudocalanus spp.																			14%					86%				
Calanus spp.														17%							50%			17%	17%			
Copepoda (nauplii)										25%		25%														50%		
Euphysa spp. (medusa)																67%										33%		
Bryozoa (larvae)																												100%

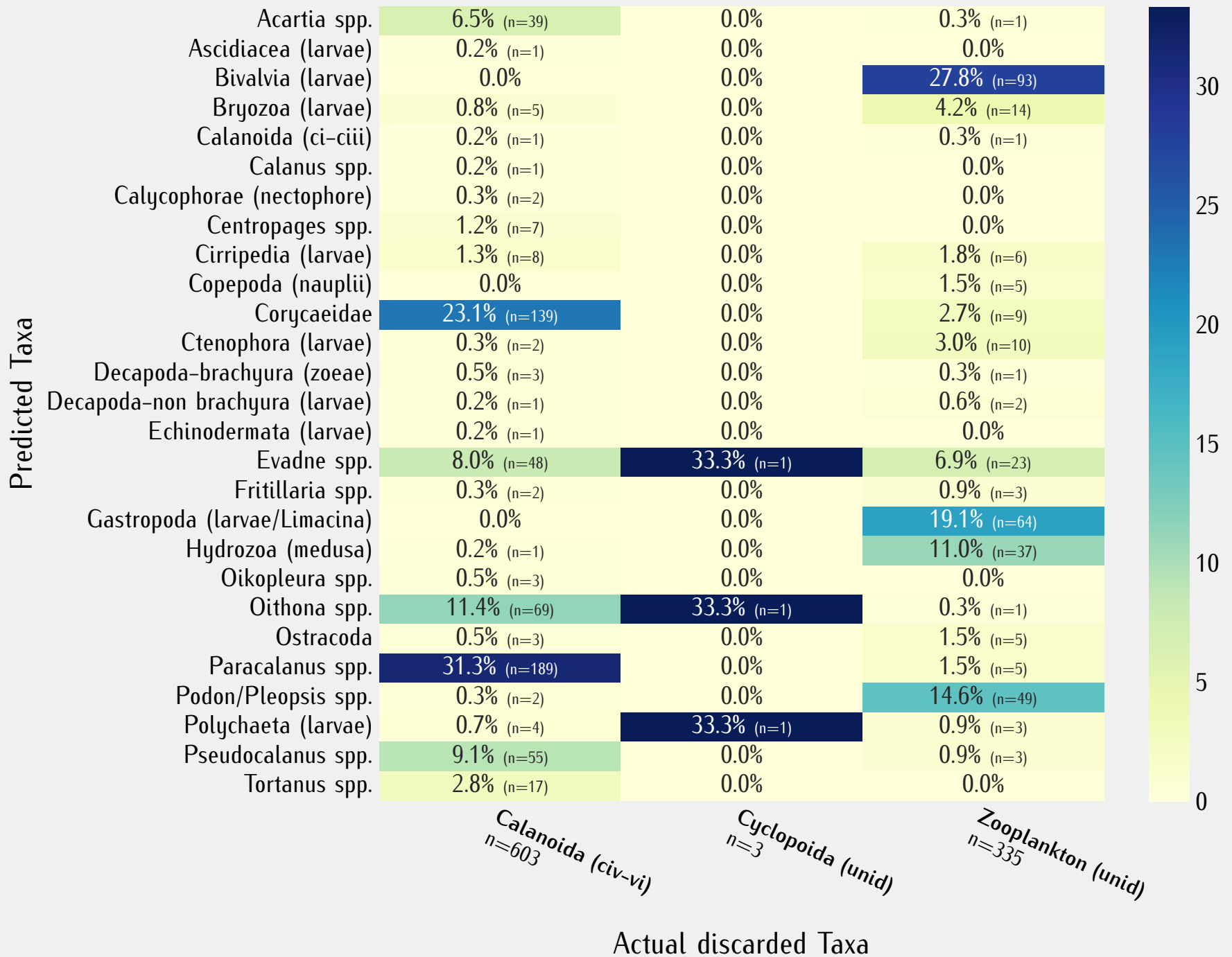
Predicted Values

Classification Report Matrix
max 200 learning objects per class

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=200)	0.92	0.51	0.66
Acartia spp. (n=2290-train=200)	0.82	0.16	0.27
Oikopleura spp. (n=1773-train=200)	0.88	0.62	0.72
Podon/Pleopsis spp. (n=607-train=200)	0.25	0.24	0.25
Fritillaria spp. (n=475-train=200)	0.40	0.47	0.44
Evadne spp. (n=358-train=200)	0.19	0.44	0.27
Corycaeidae (n=335-train=200)	0.27	0.67	0.38
Calanoida (ci-ciüi) (n=150-train=200)	0.18	0.02	0.04
Paracalanus spp. (n=141-train=200)	0.08	0.57	0.14
Gastropoda (larvae/Limacina) (n=126-train=200)	0.36	0.48	0.41
Bivalvia (larvae) (n=96-train=200)	0.83	0.70	0.76
Polychaeta (larvae) (n=65-train=200)	0.10	0.09	0.09
Hydrozoa (medusa) (n=55-train=200)	0.07	0.24	0.10
Centropages spp. (n=50-train=200)	0.19	0.30	0.23
Echinodermata (larvae) (n=42-train=200)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=200)	0.16	0.65	0.26
Decapoda-brachyura (zoeae) (n=32-train=200)	0.11	0.59	0.19
Ctenophora (larvae) (n=31-train=42)	0.13	0.48	0.20
Decapoda-non brachyura (larvae) (n=26-train=200)	0.33	0.65	0.44
Ostracoda (n=25-train=25)	0.16	0.56	0.25
Tortanus spp. (n=24-train=200)	0.04	0.46	0.07
Ascidiaacea (larvae) (n=23-train=200)	0.34	0.61	0.44
Oithona spp. (n=17-train=200)	0.01	0.41	0.02
Pseudocalanus spp. (n=7-train=200)	0.02	0.86	0.04
Calanus spp. (n=6-train=200)	0.11	0.17	0.13
Copepoda (nauplii) (n=4-train=200)	0.04	0.50	0.08
Euphysa spp. (medusa) (n=3-train=3)	1.00	0.33	0.50
Bryozoa (larvae) (n=1-train=200)	0.01	1.00	0.01
macro avg	0.29	0.46	0.26
weighted avg	0.71	0.42	0.48
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

