

Use of SCN features: No
Max learning objects: 5000 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

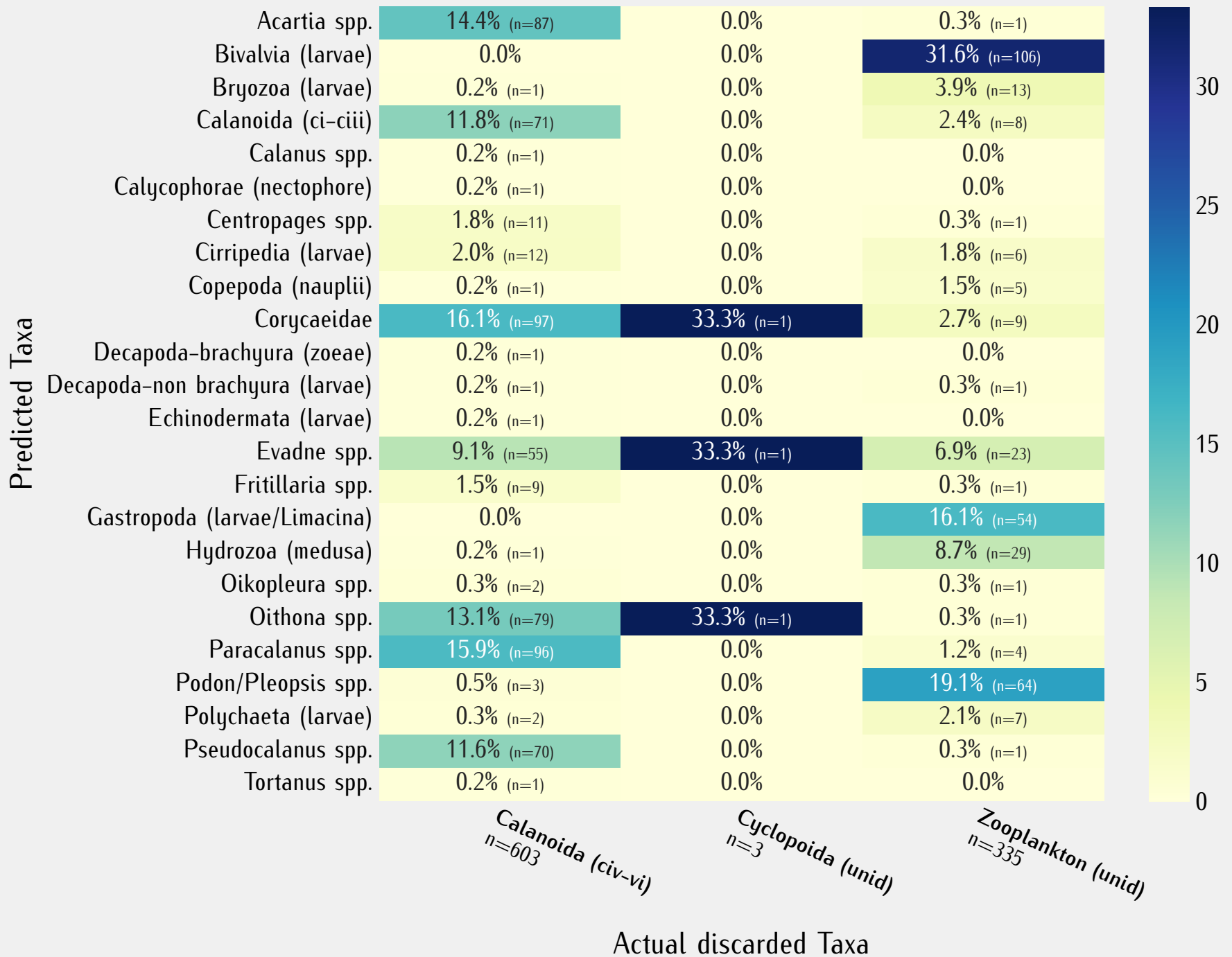
Confusion Matrix – In percent of Actual Value

Actual Values	Cirripedia (larvae)	72%	<1%	<1%	11%	<1%	6%	<1%	<1%	<1%	1%		<1%	1%	<1%	1%	1%	<1%		<1%	<1%		<1%	<1%		<1%		<1%
	Acartia spp.	<1%	45%	<1%	<1%	<1%	1%	13%	4%	10%			<1%	2%		<1%	<1%			<1%		17%	5%					
	Oikopleura spp.	1%	1%	69%	2%	16%	2%	<1%	1%	<1%	<1%		<1%	<1%	<1%	2%			<1%		<1%	<1%	<1%	<1%		<1%		<1%
	Podon/Pleopsis spp.	10%	<1%	<1%	44%		23%	3%	2%	8%	1%	<1%	2%	1%	<1%		<1%	<1%	<1%			<1%	<1%		<1%		<1%	2%
	Fritillaria spp.		<1%	24%		61%	<1%	<1%	<1%	<1%				3%		2%					<1%	7%						<1%
	Evadne spp.	4%		<1%	5%		67%	1%	3%	3%	3%	<1%	<1%	8%		<1%	<1%		<1%			<1%			<1%		<1%	3%
	Corycaeidae	<1%	10%	1%	2%	<1%	<1%	71%	2%	4%					2%		<1%			<1%		<1%		2%	3%			<1%
	Calanoida (ci-ciüi)	10%	2%	<1%	12%		12%	13%	21%	6%	<1%		2%			4%						14%			2%		<1%	
	Paracalanus spp.	<1%	4%	<1%	2%		1%	<1%	1%	57%					1%			<1%						29%				
	Gastropoda (larvae/Limacina)	2%	<1%		15%		12%		3%	<1%	56%	6%							<1%			3%			<1%			
	Bivalvia (larvae)				6%			1%				5%	81%		4%											1%		1%
	Polychaeta (larvae)	15%			12%		12%	2%	2%		2%			29%	5%			8%	2%		3%		2%		6%		2%	
	Hydrozoa (medusa)		2%				4%		4%	2%	2%			13%	64%			4%		2%	2%				4%			
	Centropages spp.		18%			4%									42%					2%		8%		18%	8%			
	Echinodermata (larvae)					2%	5%						5%	79%			5%		2%	2%								
	Calycophorae (nectophore)								3%					3%	3%	5%		73%			11%				3%			
	Decapoda-brachyura (zoeae)		3%		3%										16%			6%	44%		9%				6%	9%		3%
	Ctenophora (larvae)	3%			6%		13%				10%			23%	29%			3%		10%	3%							
	Decapoda-non brachyura (larvae)				4%									4%	4%						81%					8%		
	Ostracoda	4%			12%		32%	4%					32%		4%							12%						
	Tortanus spp.	4%	4%												25%			21%	4%				38%		4%			
	Ascidacea (larvae)			9%		17%																		74%				
	Oithona spp.		24%	6%		18%									12%										41%			
	Pseudocalanus spp.																									100%		
	Calanus spp.														17%						50%					33%		
	Copepoda (nauplii)				25%				25%																			50%
	Euphysa spp. (medusa)																100%											
	Bryozoa (larvae)	100%																										
		Cirripedia (larvae)	Acartia spp.	Oikopleura spp.	Podon/Pleopsis spp.	Fritillaria spp.	Evadne spp.	Corycaeidae	Calanoida (ci-ciüi)	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)

Classification Report Matrix
max 5000 learning objects per class

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=5000)	0.94	0.72	0.82
Acartia spp. (n=2290-train=5000)	0.90	0.45	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	0.61	0.54
Evadne spp. (n=358-train=5000)	0.34	0.67	0.45
Corycaeidae (n=335-train=1760)	0.40	0.71	0.51
Calanoida (ci-ciüi) (n=150-train=5000)	0.14	0.21	0.17
Paracalanus spp. (n=141-train=1619)	0.19	0.57	0.29
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.47	0.56	0.51
Bivalvia (larvae) (n=96-train=3764)	0.80	0.81	0.81
Polychaeta (larvae) (n=65-train=1577)	0.24	0.29	0.27
Hydrozoa (medusa) (n=55-train=4052)	0.19	0.64	0.29
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	0.33
Decapoda-brachyura (zoeae) (n=32-train=628)	0.29	0.44	0.35
Ctenophora (larvae) (n=31-train=42)	0.33	0.10	0.15
Decapoda-non brachyura (larvae) (n=26-train=423)	0.46	0.81	0.58
Ostracoda (n=25-train=25)	0.19	0.12	0.15
Tortanus spp. (n=24-train=203)	0.43	0.38	0.40
Ascidiaacea (larvae) (n=23-train=861)	0.63	0.74	0.68
Oithona spp. (n=17-train=5000)	0.01	0.41	0.03
Pseudocalanus spp. (n=7-train=4845)	0.04	1.00	0.07
Calanus spp. (n=6-train=359)	0.00	0.00	0.00
Copepoda (nauplii) (n=4-train=5000)	0.06	0.50	0.10
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
macro avg	0.33	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

