

Use of SCN features: No
Max learning objects: 5000 objects/class
Strategy N° 8

PA Selected Samples prediction using all regions training set,
Learning with selected samples classes with no low global training instances, with extra regional training categories,
No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max 5000 learning objects per class

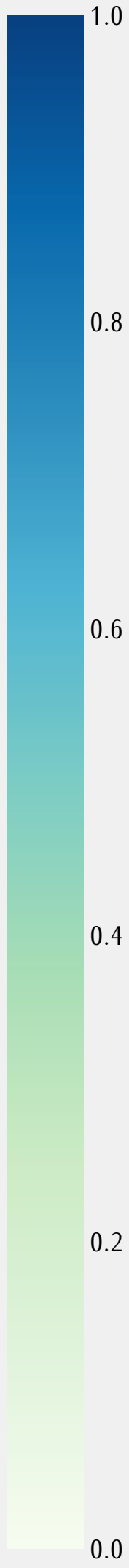
Actual Values

	Cirripedia (larvae)	73%	<1%	<1%	10%	<1%	6%	<1%	<1%	<1%	2%		<1%	1%	<1%	1%	1%	<1%		<1%	<1%		<1%	<1%		<1%	<1%	
	Acartia spp.	<1%	45%	<1%	<1%	<1%	1%	14%	4%	11%				<1%	2%		<1%	<1%		<1%		16%	5%				<1%	
	Oikopleura spp.	<1%	1%	68%	2%	16%	2%	<1%	<1%	<1%	<1%		<1%	<1%	<1%	2%			<1%	<1%	<1%	<1%	<1%	<1%		<1%	<1%	
	Podon/Pleopsis spp.	10%	<1%	<1%	44%		22%	2%	3%	8%	1%		3%	1%	<1%		<1%	<1%	<1%			<1%	<1%		<1%	2%	<1%	<1%
	Fritillaria spp.	<1%	<1%	23%		60%	<1%	<1%	<1%	<1%			<1%	2%		2%					<1%	7%				<1%	<1%	<1%
	Evadne spp.	4%		<1%	5%		67%	1%	2%	3%	2%	<1%	<1%	9%		<1%	<1%		<1%			<1%			<1%	2%		
	Corycaeidae	<1%	8%	1%	1%	<1%	<1%	70%	<1%	5%				2%		<1%			<1%	<1%	<1%	2%	3%			<1%	2%	
	Calanoida (ci-ciii)	11%	2%	<1%	15%		13%	13%	19%	5%			<1%		4%							14%			2%		2%	
	Paracalanus spp.	<1%	4%	<1%	1%		2%	<1%	2%	57%			<1%		<1%			<1%					29%					
Gastropoda (larvae/Limacina)		2%	2%		14%		12%		2%	<1%	56%	6%						<1%				3%			<1%			
	Bivalvia (larvae)				6%			1%			3%	81%		4%											1%	1%		2%
	Polychaeta (larvae)	15%	2%		11%		14%	2%	2%		3%		28%	5%			6%	2%		3%		2%		6%	2%			
	Hydrozoa (medusa)			2%			4%		2%	2%	2%		13%	64%			5%		2%	2%				4%				
	Centropages spp.		16%	2%		2%			2%						40%			2%		2%	6%		20%	8%				
	Echinodermata (larvae)					2%	5%						5%	79%			5%		2%	2%								
	Calycophorae (nectophore)								3%				3%	3%	5%		73%			8%				5%				
	Decapoda-brachyura (zoeae)		3%							3%					12%		6%	44%		9%				9%	9%		3%	
	Ctenophora (larvae)	3%			6%		13%				10%		26%	26%			3%		10%	3%								
Decapoda-non brachyura (larvae)													8%							81%				8%				4%
	Tortanus spp.	4%	4%												21%		21%	4%			42%		4%					
	Ascidacea (larvae)			13%		17%																70%						
	Oithona spp.		29%	6%		18%								12%									35%					
	Pseudocalanus spp.																							100%				
	Calanus spp.													17%						50%				17%	17%			
	Copepoda (nauplii)				25%				25%																	50%		
	Bryozoa (larvae)	100%																										

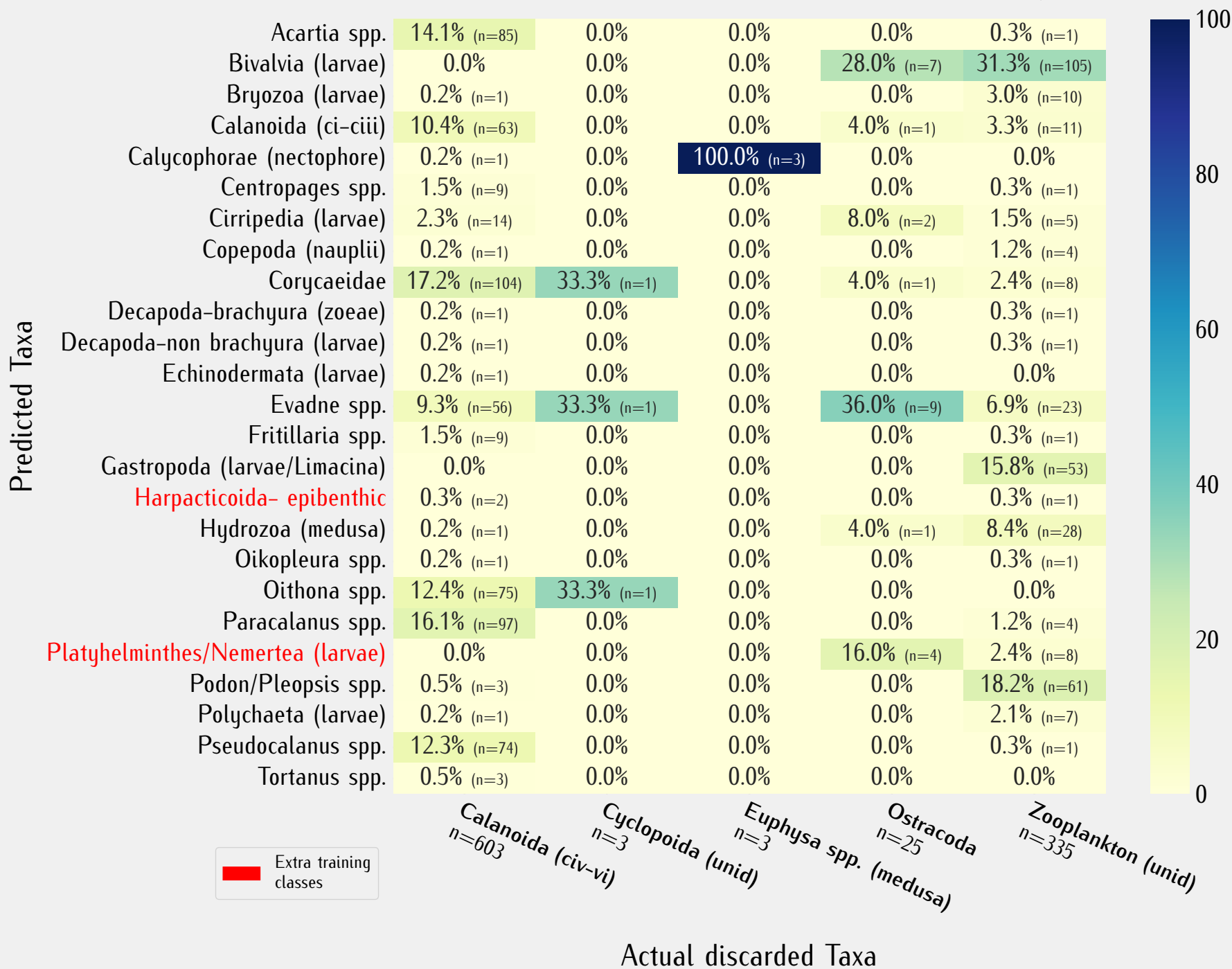
Predicted Values

Extra
training
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=5000)	0.94	0.73	0.82
Acartia spp. (n=2290-train=5000)	0.91	0.45	0.60
Oikopleura spp. (n=1773-train=5000)	0.89	0.68	0.77
Podon/Pleopsis spp. (n=607-train=5000)	0.37	0.44	0.40
Fritillaria spp. (n=475-train=5000)	0.48	0.60	0.53
Evadne spp. (n=358-train=5000)	0.35	0.67	0.46
Corycaeidae (n=335-train=1760)	0.39	0.70	0.50
Calanoida (ci-ciui) (n=150-train=5000)	0.14	0.19	0.16
Paracalanus spp. (n=141-train=1619)	0.18	0.57	0.27
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.46	0.56	0.51
Bivalvia (larvae) (n=96-train=3764)	0.89	0.81	0.85
Polychaeta (larvae) (n=65-train=1577)	0.23	0.28	0.25
Hydrozoa (medusa) (n=55-train=4052)	0.19	0.64	0.29
Centropages spp. (n=50-train=3620)	0.21	0.40	0.27
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.21	0.73	0.32
Decapoda-brachyura (zoeae) (n=32-train=628)	0.26	0.44	0.33
Ctenophora (larvae) (n=31-train=42)	0.33	0.10	0.15
Decapoda-non brachyura (larvae) (n=26-train=423)	0.47	0.81	0.59
Tortanus spp. (n=24-train=203)	0.45	0.42	0.43
Ascidiaacea (larvae) (n=23-train=861)	0.55	0.70	0.62
Oithona spp. (n=17-train=5000)	0.01	0.35	0.02
Pseudocalanus spp. (n=7-train=4845)	0.04	1.00	0.07
Calanus spp. (n=6-train=359)	0.10	0.17	0.12
Copepoda (nauplii) (n=4-train=5000)	0.05	0.50	0.10
Bryozoa (larvae) (n=1-train=1142)	0.00	0.00	0.00
Harpacticoida- epibenthic (n=0-train=555)	-	-	-
Platyhelminthes/Nemertea (larvae) (n=0-train=183)	-	-	-
macro avg (corr)	0.35	0.50	0.36
weighted avg	0.77	0.61	0.66
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

