

Use of SCN features: No  
Max learning objects: 5000 objects/class  
Strategy N° 4

PA Selected Samples prediction using PA training set,  
Learning with selected samples classes with no low regional training instances, with extra 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)	77%	1%	<1%	13%	<1%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%		1%	1%	1%					<1%	<1%		<1%
Acartia spp.	<1%	79%	<1%	<1%	<1%	<1%	6%	1%	8%			<1%		<1%	<1%	<1%	<1%		<1%	<1%					
Oikopleura spp.	1%	2%	81%	2%	3%	1%	<1%	<1%	1%		<1%	<1%	<1%	<1%	2%	3%	<1%	<1%	<1%			<1%	<1%		1%
Podon/Pleopsis spp.	9%	1%	<1%	54%		10%	1%	4%	10%			2%	3%		<1%	2%					<1%	3%			<1%
Fritillaria spp.	<1%	6%	45%		41%	2%	<1%		<1%			<1%			3%				<1%	<1%					<1%
Evadne spp.	6%	1%	<1%	8%		70%	<1%	<1%	5%		<1%	<1%	4%		1%	<1%					<1%	<1%			1%
Corycaeidae	<1%	13%	2%	1%		<1%	71%	1%	5%			<1%		<1%		<1%	<1%	<1%	<1%		<1%				<1%
Calanoida (ci-ciui)	15%	15%	<1%	14%		4%	11%	15%	7%			3%			10%						3%	<1%			1%
Paracalanus spp.	<1%	8%	<1%	2%		2%	<1%		80%							<1%	<1%				4%				<1%
Gastropoda (larvae/Limacina)	7%	5%		33%		5%		2%	2%	33%	8%	2%	<1%		<1%						2%				<1%
Bivalvia (larvae)				9%			1%			4%	74%										1%				10%
Polychaeta (larvae)	25%	6%		15%		5%	3%	2%	3%			26%	3%			2%	3%	5%			2%	2%			
Hydrozoa (medusa)			2%	2%		2%			4%			4%	80%			5%	2%								
Centropages spp.		22%	2%				2%					2%		20%		2%	18%	14%	14%		4%				
Echinodermata (larvae)	2%			14%	2%	52%			2%			14%			10%						2%				
Calycophorae (nectophore)								3%				3%	11%		76%	5%	3%								
Decapoda-brachyura (zoeae)	3%	3%		3%					6%						6%	62%	12%				3%				
Decapoda-non brachyura (larvae)		4%		4%								8%				8%	73%								4%
Tortanus spp.	4%	4%											12%		21%	21%		38%							
Ascidacea (larvae)			48%															52%							
Oithona spp.		53%	12%		12%								12%				6%			6%					
Pseudocalanus spp.									14%				14%			14%	14%				43%				
Copepoda (nauplii)				50%				25%														25%			
Bryozoa (larvae)	100%																								

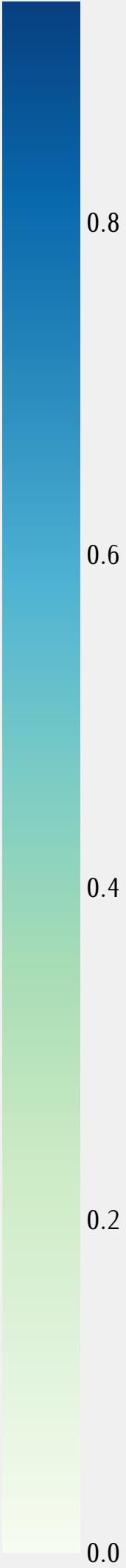
Cirripedia (larvae)  
Acartia spp.  
Oikopleura spp.  
Podon/Pleopsis spp.  
Fritillaria spp.  
Evadne spp.  
Corycaeidae  
Calanoida (ci-ciui)  
Paracalanus spp.  
Gastropoda (larvae/Limacina)  
Bivalvia (larvae)  
Polychaeta (larvae)  
Hydrozoa (medusa)  
Centropages spp.  
Echinodermata (larvae)  
Calycophorae (nectophore)  
Decapoda-brachyura (zoeae)  
Decapoda-non brachyura (larvae)  
Tortanus spp.  
Ascidacea (larvae)  
Oithona spp.  
Pseudocalanus spp.  
Copepoda (nauplii)  
Bryozoa (larvae)

Predicted Values

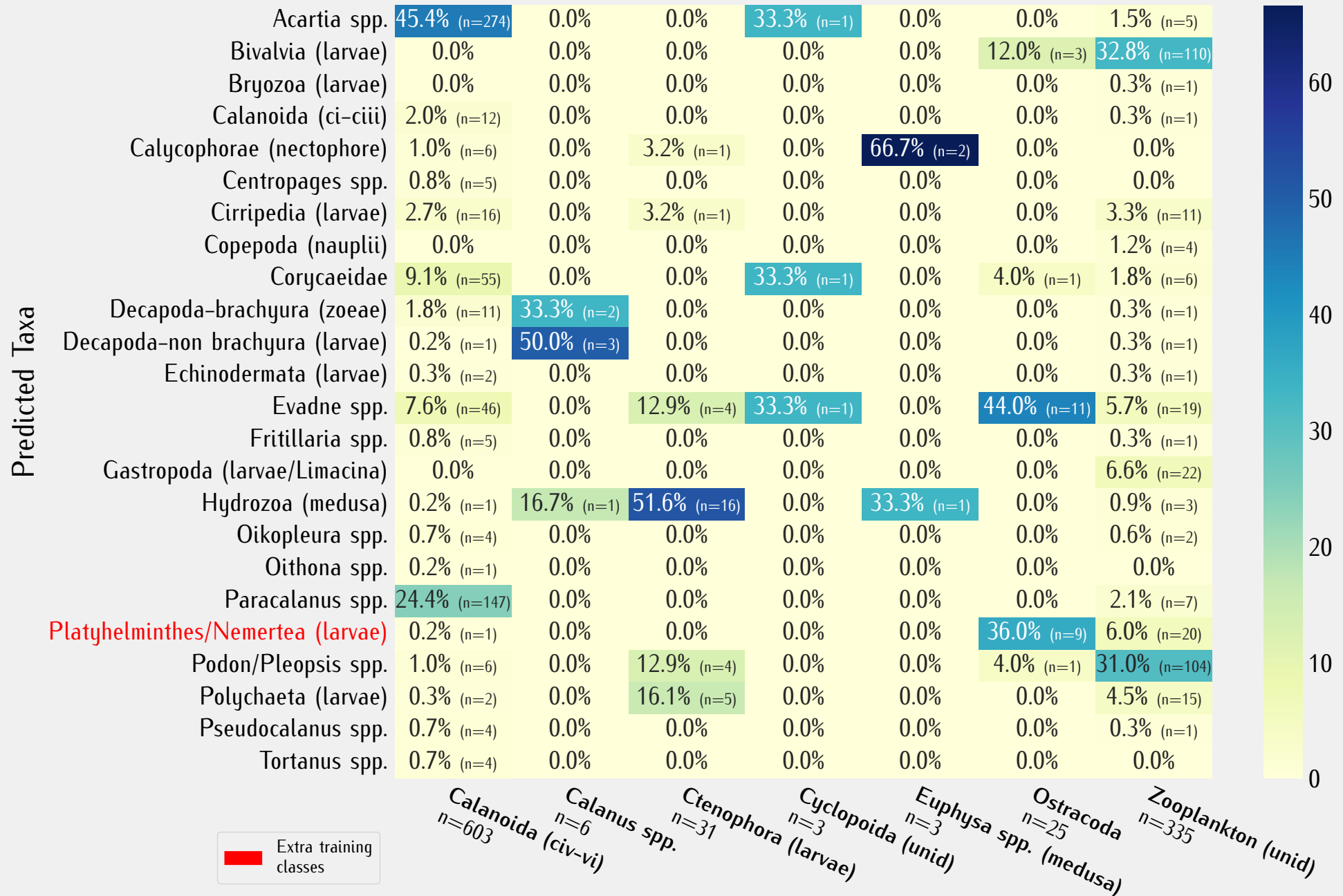
Extra  
training  
classes

Haracticoida- epibenthic  
Platyhelminthes/Nemertea (larvae)

	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	0.81	0.82
Podon/Pleopsis spp. (n=607-train=3605)	0.36	0.54	0.43
Fritillaria spp. (n=475-train=844)	0.79	0.41	0.54
Evadne spp. (n=358-train=981)	0.56	0.70	0.62
Corycaeidae (n=335-train=1760)	0.55	0.71	0.62
Calanoida (ci-ciui) (n=150-train=313)	0.23	0.15	0.18
Paracalanus spp. (n=141-train=1525)	0.24	0.80	0.37
Gastropoda (larvae/Limacina) (n=126-train=291)	0.72	0.33	0.46
Bivalvia (larvae) (n=96-train=119)	0.76	0.74	0.75
Polychaeta (larvae) (n=65-train=661)	0.26	0.26	0.26
Hydrozoa (medusa) (n=55-train=301)	0.38	0.80	0.51
Centropages spp. (n=50-train=119)	0.24	0.20	0.22
Echinodermata (larvae) (n=42-train=2649)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.20	0.76	0.31
Decapoda-brachyura (zoeae) (n=32-train=343)	0.18	0.62	0.28
Decapoda-non brachyura (larvae) (n=26-train=219)	0.45	0.73	0.56
Tortanus spp. (n=24-train=88)	0.31	0.38	0.34
Ascidacea (larvae) (n=23-train=54)	0.75	0.52	0.62
Oithona spp. (n=17-train=44)	0.07	0.06	0.06
Pseudocalanus spp. (n=7-train=65)	0.12	0.43	0.19
Copepoda (nauplii) (n=4-train=233)	0.02	0.25	0.03
Bryozoa (larvae) (n=1-train=50)	0.00	0.00	0.00
Haracticoida- epibenthic (n=0-train=47)	-	-	-
Platyhelminthes/Nemertea (larvae) (n=0-train=145)	-	-	-
macro avg (corr)	0.41	0.49	0.41
weighted avg	0.79	0.72	0.74
	precision	recall	f1-score



# Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

