

Use of SCN features: No  
Max learning objects: 200 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 (ci-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classification Report Matrix  
max 200 learning objects per class

Actual Values

Gastropoda (larvae/Limacina)	Cirripedia (larvae)	55%	<1%	<1%	11%	<1%	11%	<1%	<1%	1%	2%			<1%	1%	<1%	3%	1%	3%	<1%	<1%	4%		2%	<1%		<1%	2%	<1%	1%
	Acartia spp.	<1%	18%	<1%	<1%	<1%	<1%	22%	<1%	26%					1%		<1%	<1%			5%	<1%	14%	8%					3%	
	Oikopleura spp.	<1%	<1%	59%	<1%	21%	2%	<1%	<1%	1%				<1%	<1%	<1%	1%	3%	<1%	<1%	<1%	<1%	1%	1%	<1%		<1%	<1%	<1%	2%
	Podon/Pleopsis spp.	13%		<1%	27%		20%	<1%	<1%	16%	1%			3%	1%	<1%		<1%	1%	3%	<1%	<1%		<1%	<1%		<1%	7%	1%	2%
	Fritillaria spp.	<1%	1%	22%		53%	<1%	3%		<1%				1%		4%					<1%	1%	10%				<1%	<1%	<1%	<1%
	Evadne spp.	4%		<1%	3%		44%	1%	<1%	7%	2%	<1%	<1%	16%		1%	<1%	<1%	6%				<1%			<1%	6%		6%	
	Corycaeidae	<1%	5%	2%	2%	<1%	<1%	65%		8%				<1%		1%		<1%			<1%	2%	1%	5%			<1%	3%	1%	
	Calanoida (ci-ciii)	15%	3%		13%		11%	11%	3%	10%				3%			5%					<1%		9%			1%	7%	7%	1%
	Paracalanus spp.		3%	<1%				<1%		57%				<1%					<1%	1%		4%			32%					
	Bivalvia (larvae)	3%			18%		10%			4%	44%	4%	<1%	2%					<1%				3%				2%	5%		3%
	Polychaeta (larvae)	14%	5%		11%		9%	5%	2%	5%	2%			17%			2%		2%	6%	5%			2%	9%		2%	3%	2%	2%
	Hydrozoa (medusa)									4%				18%	2%		11%	2%	56%	2%							2%		4%	
	Centropages spp.		10%				2%		2%		4%				18%		2%	4%		8%	24%			18%	8%					
	Echinodermata (larvae)						2%	7%			5%			2%	67%			7%		7%	2%									
	Calycophorae (nectophore)						3%									5%		65%	3%	3%	16%				3%	3%				
	Decapoda-brachyura (zoeae)		3%							3%						19%		3%	34%	3%	9%	3%				16%			6%	
	Ctenophora (larvae)	3%												13%	23%			3%		42%							13%			3%
	Decapoda-non brachyura (larvae)							4%								4%				8%	62%				19%					4%
	Tortanus spp.		4%												17%		17%	8%				50%		4%						
	Ascidacea (larvae)			9%		13%																78%								
Oithona spp.		24%	6%		12%		6%							6%					6%				35%					6%		
Pseudocalanus spp.																14%			14%					71%						
Calanus spp.													17%							50%				17%	17%					
Copepoda (nauplii)	25%			25%																						50%				
Bryozoa (larvae)	100%																													
		Cirripedia (larvae)	Acartia spp.	Oikopleura spp.	Podon/Pleopsis spp.	Fritillaria spp.	Evadne spp.	Corycaeidae	Calanoida (ci-ciii)	Paracalanus spp.	Gastropoda (larvae/Limacina)	Bivalvia (larvae)	Polychaeta (larvae)	Hydrozoa (medusa)	Centropages spp.	Echinodermata (larvae)	Calycophorae (nectophore)	Decapoda-brachyura (zoeae)	Ctenophora (larvae)	Decapoda-non brachyura (larvae)	Tortanus spp.	Ascidacea (larvae)	Oithona spp.	Pseudocalanus spp.	Calanus spp.	Copepoda (nauplii)	Bryozoa (larvae)	Haracticoida-Platy		

Predicted Values

Extra  
training  
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=200)	0.92	0.55	0.68
Acartia spp. (n=2290-train=200)	0.85	0.18	0.30
Oikopleura spp. (n=1773-train=200)	0.88	0.59	0.71
Podon/Pleopsis spp. (n=607-train=200)	0.27	0.27	0.27
Fritillaria spp. (n=475-train=200)	0.38	0.53	0.44
Evadne spp. (n=358-train=200)	0.21	0.44	0.28
Corycaeidae (n=335-train=200)	0.28	0.65	0.39
Calanoida (ci-ciui) (n=150-train=200)	0.20	0.03	0.05
Paracalanus spp. (n=141-train=200)	0.09	0.57	0.15
Gastropoda (larvae/Limacina) (n=126-train=200)	0.42	0.44	0.43
Bivalvia (larvae) (n=96-train=200)	0.90	0.65	0.75
Polychaeta (larvae) (n=65-train=200)	0.17	0.17	0.17
Hydrozoa (medusa) (n=55-train=200)	0.06	0.18	0.09
Centropages spp. (n=50-train=200)	0.14	0.18	0.16
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)	0.09	0.34	0.14
Ctenophora (larvae) (n=31-train=42)	0.11	0.42	0.17
Decapoda-non brachyura (larvae) (n=26-train=200)	0.31	0.62	0.41
Tortanus spp. (n=24-train=200)	0.04	0.50	0.07
Ascidacea (larvae) (n=23-train=200)	0.39	0.78	0.52
Oithona spp. (n=17-train=200)	0.01	0.35	0.02
Pseudocalanus spp. (n=7-train=200)	0.02	0.71	0.03
Calanus spp. (n=6-train=200)	0.06	0.17	0.09
Copepoda (nauplii) (n=4-train=200)	0.05	0.50	0.10
Bryozoa (larvae) (n=1-train=200)	0.00	0.00	0.00
Harpacticoida- epibenthic (n=0-train=200)	-	-	-
Platyhelminthes/Nemertea (larvae) (n=0-train=183)	-	-	-
macro avg (corr)	0.27	0.40	0.26
weighted avg	0.72	0.44	0.50
	precision	recall	f1-score

0.8

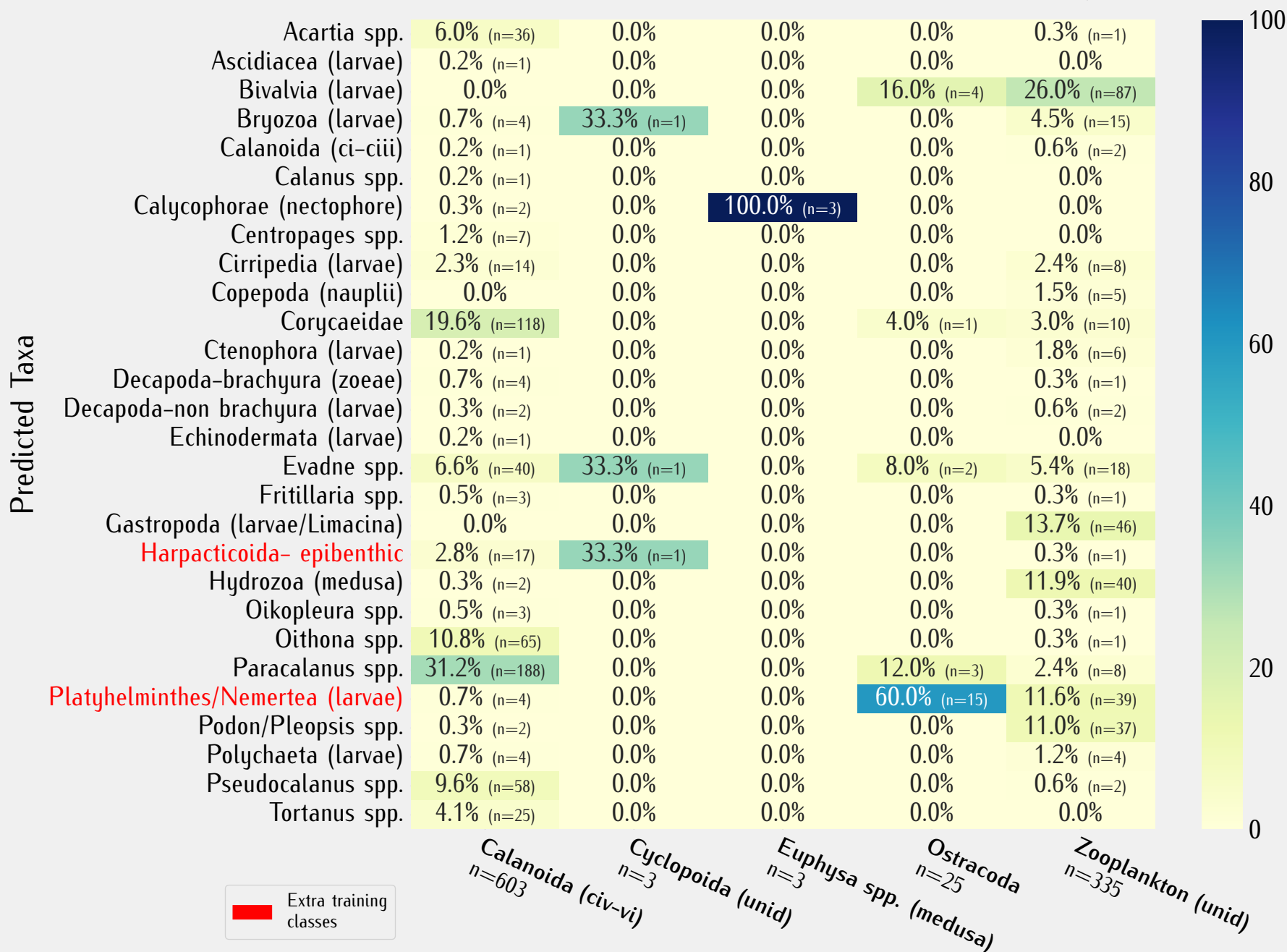
0.6

0.4

0.2

0.0

# Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

