

Use of SCN features: Yes
Max learning objects: Maximum 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 available learning objects per class

Actual Values

Cirripedia (larvae)	70%	2%	<1%	12%	<1%	9%		<1%		1%		<1%	<1%	<1%	<1%	<1%				<1%	<1%		<1%	<1%		<1%
Acartia spp.	<1%	73%	<1%	<1%	<1%	1%	6%	1%	<1%			<1%	<1%	<1%		<1%			<1%		15%	<1%				
Oikopleura spp.	<1%	3%	65%	2%	19%	3%	<1%	<1%	<1%	<1%		<1%	<1%	<1%	1%			<1%	<1%	<1%		<1%	<1%	<1%	<1%	<1%
Podon/Pleopsis spp.	9%	7%	<1%	46%		30%	1%	<1%	2%	2%		<1%	<1%			<1%	<1%			<1%	<1%				<1%	<1%
Fritillaria spp.	<1%	5%	19%	<1%	64%	1%		<1%					1%		2%				<1%	5%			<1%	<1%	<1%	
Evadne spp.	5%	1%	<1%	6%		74%	<1%	1%	1%	2%	<1%	<1%	6%			<1%				<1%			<1%	<1%		
Corycaeidae	<1%	43%	<1%	2%	<1%	1%	43%	<1%	1%			<1%		<1%		<1%		<1%		2%	2%					
Calanoida (ci-ciii)	10%	11%	<1%	13%	<1%	18%	10%	15%	<1%			<1%			3%					13%			2%	<1%	1%	
Paracalanus spp.	<1%	27%		1%	<1%	4%		3%	36%												28%					
Gastropoda (larvae/Limacina)	<1%	3%		18%		14%		2%		52%	6%	<1%	<1%						2%				<1%			
Bivalvia (larvae)				6%		1%				4%	82%		3%										2%		1%	
Polychaeta (larvae)	18%	12%		11%		15%	2%	2%		3%		26%						5%			5%	2%				
Hydrozoa (medusa)		4%				5%		2%				9%	71%		7%		2%									
Centropages spp.		48%	2%		4%									22%			4%	4%			12%	4%				
Echinodermata (larvae)					2%	2%						2%	88%		2%		2%									
Calycophorae (nectophore)		8%										3%	3%	3%		76%		8%								
Decapoda-brachyura (zoeae)	3%	25%				3%		3%						6%	6%	47%		6%								
Ctenophora (larvae)	3%			6%		19%				10%		13%	42%		3%		3%									
Decapoda-non brachyura (larvae)				4%		4%						4%		4%		12%		62%		4%	8%					
Tortanus spp.	4%	33%												21%	21%	4%	4%	12%								
Ascidiaacea (larvae)			30%		17%														52%							
Oithona spp.		53%			12%									6%							29%					
Pseudocalanus spp.		29%																				71%				
Calanus spp.														17%			17%					67%				
Copepoda (nauplii)				25%																			75%			
Bryozoa (larvae)	100%																									

Predicted Values

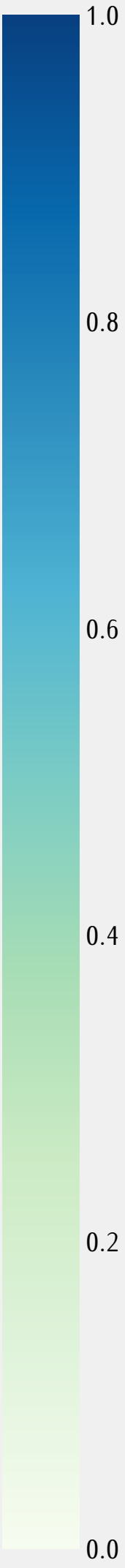
Extra
training
classes

precision

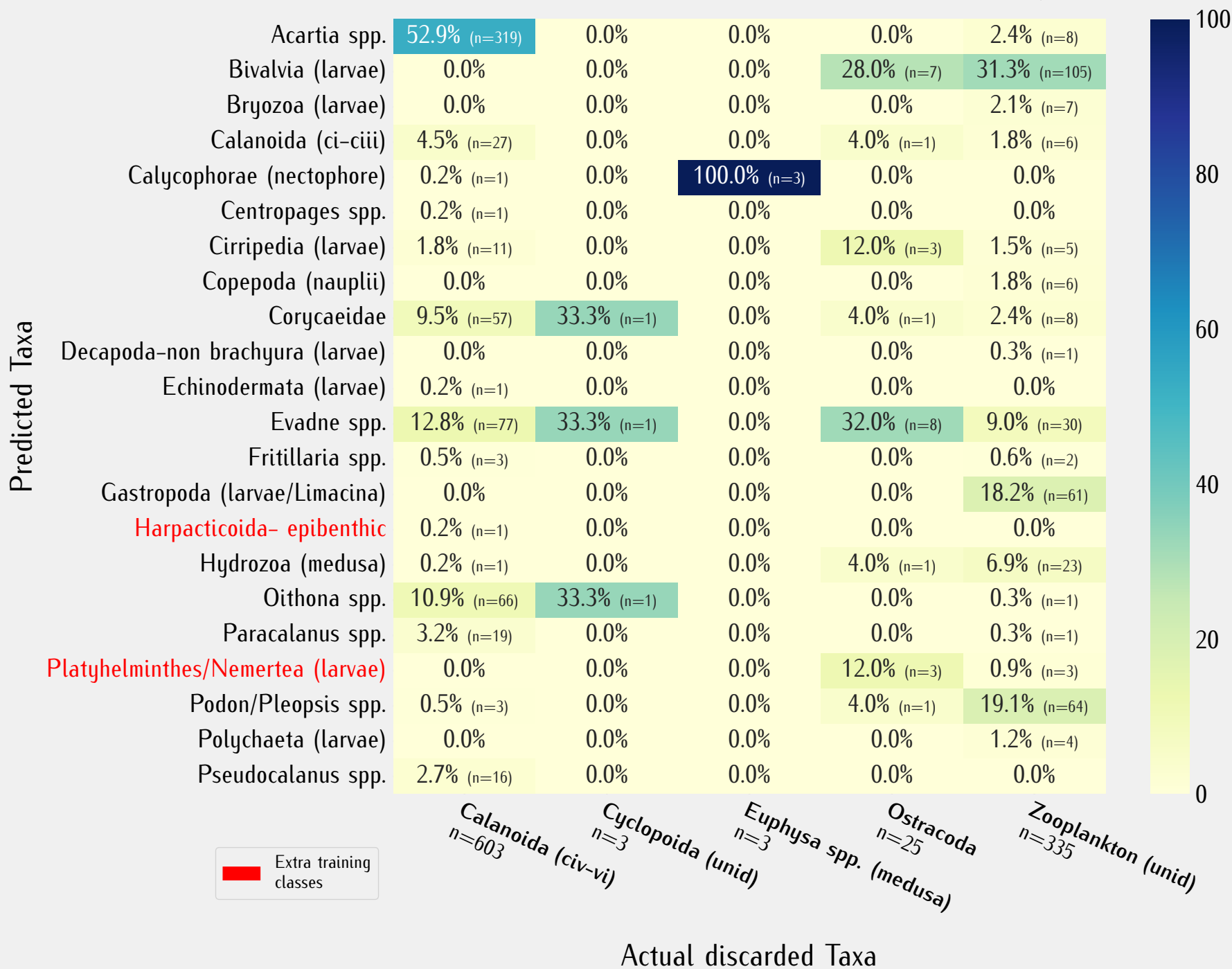
recall

f1-score

Cirripedia (larvae) (n=3231-train=7685)	0.94	0.70	0.81
Acartia spp. (n=2290-train=111319)	0.78	0.73	0.76
Oikopleura spp. (n=1773-train=5305)	0.91	0.65	0.76
Podon/Pleopsis spp. (n=607-train=7347)	0.35	0.46	0.40
Fritillaria spp. (n=475-train=6992)	0.45	0.64	0.53
Evadne spp. (n=358-train=11064)	0.30	0.74	0.42
Corycaeidae (n=335-train=1760)	0.46	0.43	0.44
Calanoida (ci-ciii) (n=150-train=5557)	0.22	0.15	0.18
Paracalanus spp. (n=141-train=1619)	0.53	0.36	0.43
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.48	0.52	0.50
Bivalvia (larvae) (n=96-train=3764)	0.90	0.82	0.86
Polychaeta (larvae) (n=65-train=1577)	0.33	0.26	0.29
Hydrozoa (medusa) (n=55-train=4052)	0.25	0.71	0.36
Centropages spp. (n=50-train=3620)	0.39	0.22	0.28
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.29	0.76	0.42
Decapoda-brachyura (zoeae) (n=32-train=628)	0.39	0.47	0.43
Ctenophora (larvae) (n=31-train=42)	1.00	0.03	0.06
Decapoda-non brachyura (larvae) (n=26-train=423)	0.50	0.62	0.55
Tortanus spp. (n=24-train=203)	0.50	0.12	0.20
Ascidiaacea (larvae) (n=23-train=861)	0.75	0.52	0.62
Oithona spp. (n=17-train=5881)	0.01	0.29	0.02
Pseudocalanus spp. (n=7-train=4845)	0.07	0.71	0.12
Calanus spp. (n=6-train=359)	0.00	0.00	0.00
Copepoda (nauplii) (n=4-train=11555)	0.06	0.75	0.11
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)	0.42	0.45	0.37
weighted avg	0.76	0.65	0.68
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

