

Use of SCN features: Yes
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

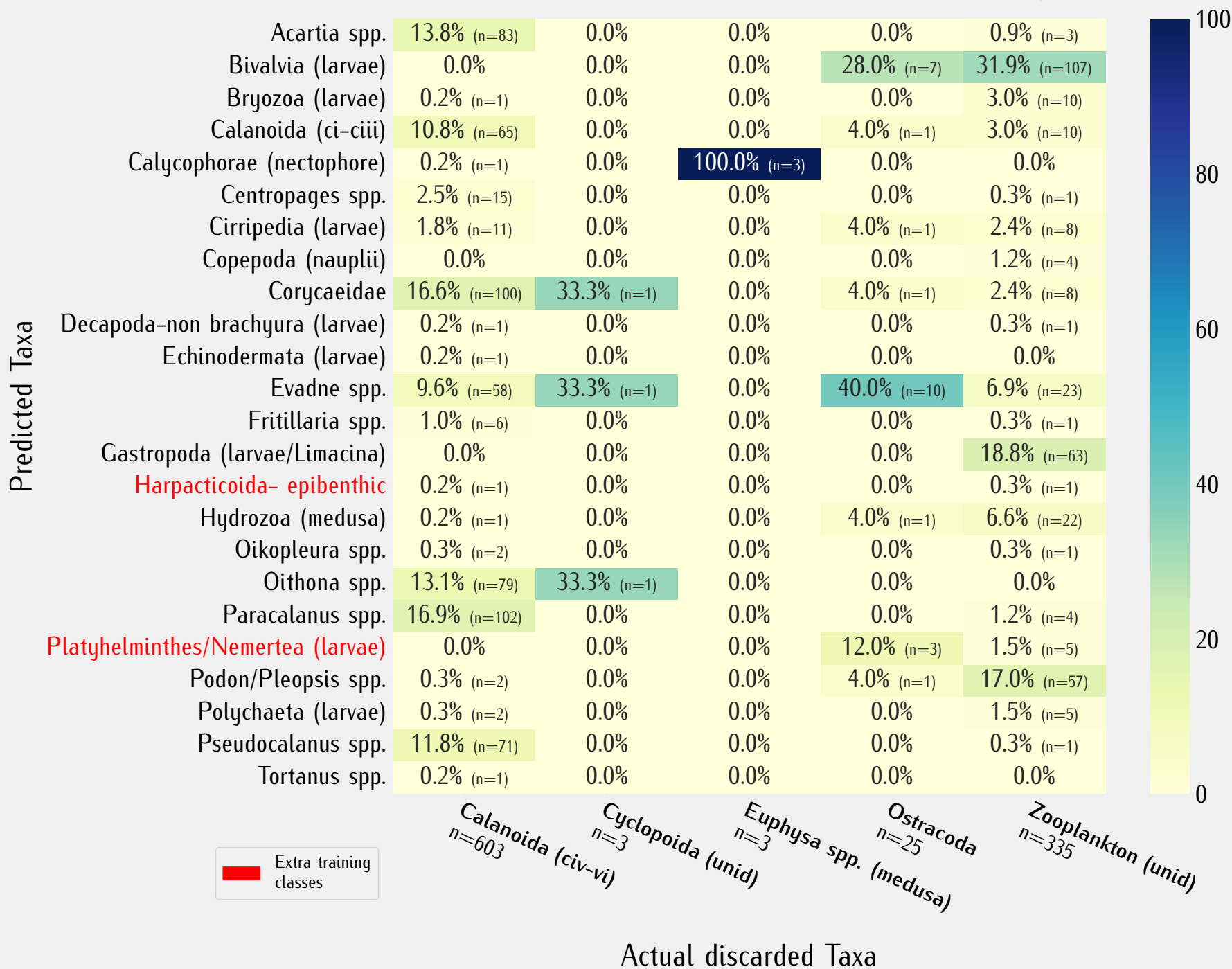
	Predicted Values																											
Cirripedia (larvae)	70%	<1%	<1%	12%	<1%	7%		<1%	<1%	2%		<1%	1%	<1%	1%	<1%	1%				<1%	<1%		<1%	<1%			<1%
Acartia spp.	<1%	42%	<1%	<1%	<1%	1%	16%	4%	12%			<1%	2%		<1%	<1%		<1%		16%	5%			<1%			<1%	
Oikopleura spp.	<1%	1%	68%	1%	17%	2%	<1%	<1%	<1%	<1%		<1%	<1%	<1%	2%			<1%	<1%	<1%	1%	<1%		<1%	<1%	<1%	<1%	<1%
Podon/Pleopsis spp.	10%	<1%	<1%	44%	<1%	26%	2%	2%	7%	2%		2%	<1%	<1%		<1%	<1%			<1%	<1%		<1%	<1%	<1%	<1%	<1%	<1%
Fritillaria spp.		<1%	24%	<1%	58%	1%	1%	1%	<1%				2%		2%					<1%	8%				<1%	<1%		
Evadne spp.	4%		<1%	6%		67%	1%	2%	3%	3%	<1%	<1%	8%		<1%	<1%				<1%			<1%	1%				
Corycaeidae	<1%	9%	<1%	1%	<1%	<1%	70%	1%	4%					2%		1%			<1%		2%	4%			<1%	<1%		
Calanoida (ci-ciii)	11%	3%	<1%	12%		16%	13%	15%	7%			<1%			4%					13%			2%	<1%	2%			
Paracalanus spp.	<1%	4%	<1%	1%		3%	<1%	<1%	55%					<1%							33%							
Gastropoda (larvae/Limacina)	2%	2%		15%		12%	<1%	<1%	<1%	55%	6%	<1%						<1%			4%			<1%				
Bivalvia (larvae)				5%		1%				5%	80%		4%											2%				2%
Polychaeta (larvae)	18%			12%		12%	2%	2%	2%	3%		31%	2%			5%			5%		6%		2%					
Hydrozoa (medusa)						2%		2%	2%			9%	75%	2%		5%			2%		2%							
Centropages spp.		18%			4%									42%					6%	6%		18%	6%					
Echinodermata (larvae)					2%	2%						5%	86%			2%			2%									
Calycophorae (nectophore)								3%					3%	3%	5%		76%			8%		3%						
Decapoda-brachyura (zoeae)		6%							3%						9%		6%	62%		6%		3%			3%			
Ctenophora (larvae)	3%			3%		19%				13%		16%	32%			3%		3%	3%					3%				
Decapoda-non brachyura (larvae)	4%					4%							4%	4%			4%		73%			8%						
Tortanus spp.	8%													42%		17%	4%		4%	21%		4%						
Ascidacea (larvae)			22%		17%															61%								
Oithona spp.		29%	6%		18%									12%							35%							
Pseudocalanus spp.																					100%							
Calanus spp.														17%				17%				50%	17%					
Copepoda (nauplii)							25%			25%														50%				
Bryozoa (larvae)	100%																											

Extra
training
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=5000)	0.94	0.70	0.80
Acartia spp. (n=2290-train=5000)	0.90	0.42	0.58
Oikopleura spp. (n=1773-train=5000)	0.89	0.68	0.77
Podon/Pleopsis spp. (n=607-train=5000)	0.35	0.44	0.39
Fritillaria spp. (n=475-train=5000)	0.45	0.58	0.51
Evadne spp. (n=358-train=5000)	0.32	0.67	0.43
Corycaeidae (n=335-train=1760)	0.36	0.70	0.48
Calanoida (ci-ciui) (n=150-train=5000)	0.13	0.15	0.14
Paracalanus spp. (n=141-train=1619)	0.17	0.55	0.26
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.42	0.55	0.47
Bivalvia (larvae) (n=96-train=3764)	0.90	0.80	0.85
Polychaeta (larvae) (n=65-train=1577)	0.29	0.31	0.30
Hydrozoa (medusa) (n=55-train=4052)	0.22	0.75	0.34
Centropages spp. (n=50-train=3620)	0.18	0.42	0.25
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.24	0.76	0.37
Decapoda-brachyura (zoeae) (n=32-train=628)	0.27	0.62	0.38
Ctenophora (larvae) (n=31-train=42)	0.50	0.03	0.06
Decapoda-non brachyura (larvae) (n=26-train=423)	0.51	0.73	0.60
Tortanus spp. (n=24-train=203)	0.42	0.21	0.28
Ascidiaacea (larvae) (n=23-train=861)	0.78	0.61	0.68
Oithona spp. (n=17-train=5000)	0.01	0.35	0.02
Pseudocalanus spp. (n=7-train=4845)	0.03	1.00	0.06
Calanus spp. (n=6-train=359)	0.17	0.17	0.17
Copepoda (nauplii) (n=4-train=5000)	0.05	0.50	0.09
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)	0.37	0.49	0.36
weighted avg	0.77	0.59	0.64
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

