

Use of SCN features: Yes  
Max learning objects: Maximum objects/class  
Strategy N° 2

PA Selected Samples prediction using PA training set,  
Learning with all classes present in the selected samples, with extra training categories,  
No Calanoida (ci-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

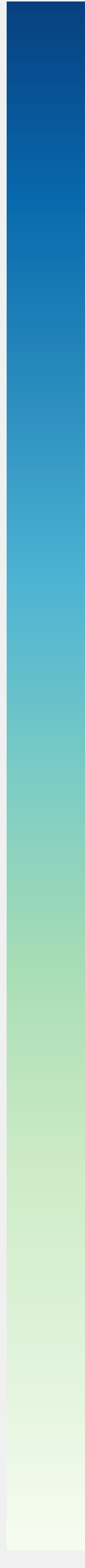
Classification Report Matrix  
max available learning objects per class

Actual Values

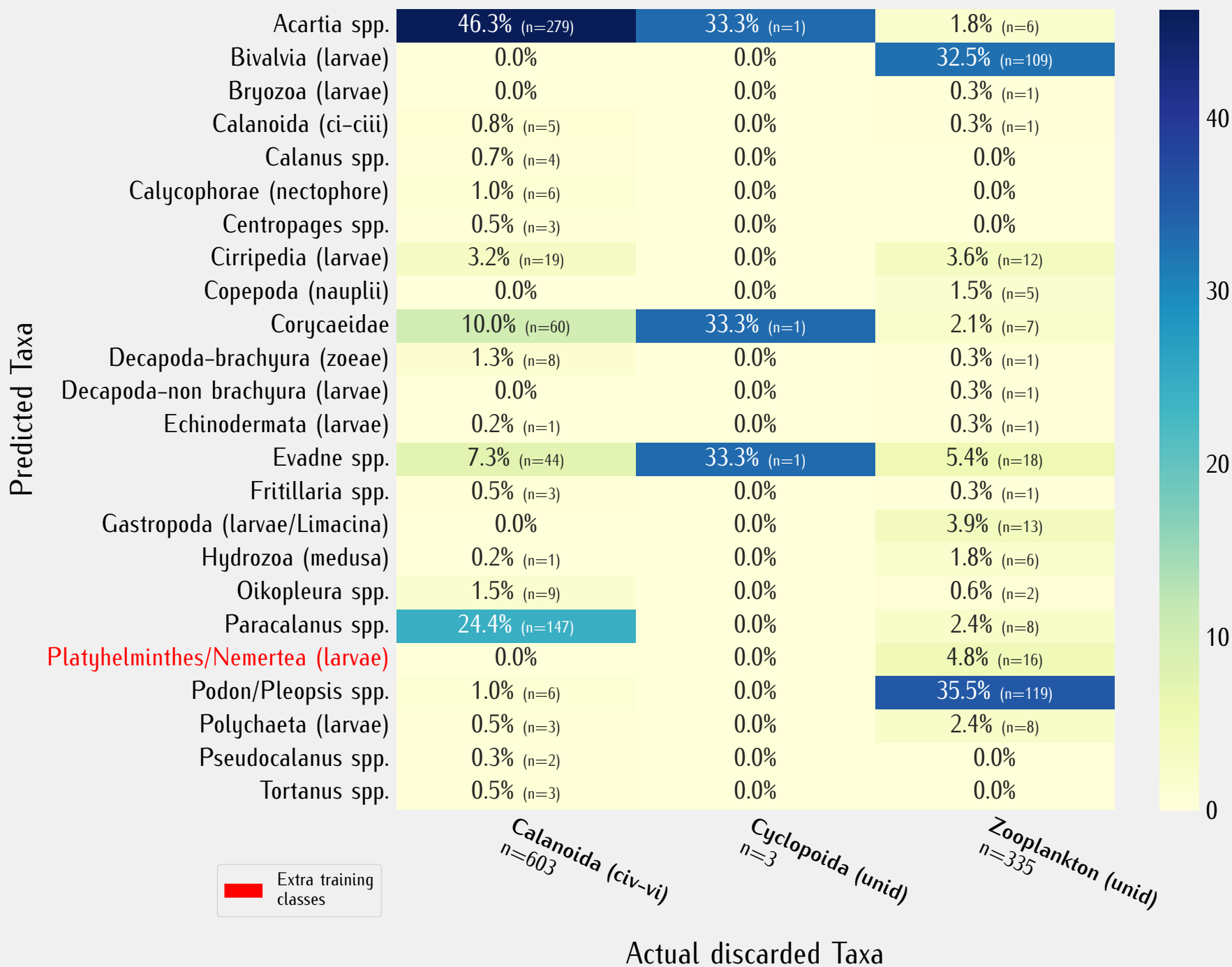
Cirripedia (larvae)	76%	1%	<1%	15%	<1%	1%		<1%	<1%	<1%	<1%	<1%		<1%	1%	1%			<1%	<1%				<1%	<1%			<1%
Acartia spp.	1%	79%	<1%	<1%	<1%	<1%	7%	<1%	9%					<1%		<1%	<1%			<1%		<1%	<1%					
Oikopleura spp.	2%	2%	82%	2%	2%	1%	<1%	<1%	1%		<1%	<1%	<1%	<1%	2%	3%	<1%	<1%	<1%		<1%		<1%					<1%
Podon/Pleopsis spp.	9%	2%	<1%	53%		11%	1%	2%	12%			2%	3%		<1%	<1%	1%						1%					<1%
Fritillaria spp.	<1%	7%	53%	<1%	32%	2%	<1%		<1%			<1%			4%	<1%					<1%							<1%
Evadne spp.	8%	1%	<1%	13%		65%	<1%	<1%	4%		<1%		5%		1%	<1%		<1%					<1%					<1%
Corycaeidae	<1%	14%	1%	1%		<1%	72%	<1%	5%					<1%		2%	<1%			<1%		<1%						<1%
Calanoida (ci-ciüi)	18%	16%	<1%	13%		3%	11%	13%	7%			3%			10%								3%					<1%
Paracalanus spp.	<1%	7%	<1%	1%		1%	<1%		82%				1%	<1%			<1%					1%	1%					
Gastropoda (larvae/Limacina)	7%	5%		47%		5%		<1%	2%	23%	6%	<1%	2%		<1%								<1%					
Bivalvia (larvae)				14%		1%						77%											1%					7%
Polychaeta (larvae)	26%	5%		17%		3%	3%	2%	5%			25%	5%		2%	2%	3%		5%									
Hydrozoa (medusa)			2%	2%		4%			4%				82%		5%	2%												
Centropages spp.		26%	4%				2%		2%			2%		18%		4%	16%		16%			2%	8%					
Echinodermata (larvae)	2%			12%	2%	55%			2%				17%			7%						2%						
Calycophorae (nectophore)								3%				3%	8%			78%	5%		3%									
Decapoda-brachyura (zoeae)		3%		3%					3%						6%	78%		3%				3%						
Ctenophora (larvae)	3%			16%		16%					3%	52%			3%		6%											
Decapoda-non brachyura (larvae)		4%				4%						12%			8%		73%											
Ostracoda				4%		44%	4%				16%								4%									28%
Tortanus spp.	4%	8%												4%		29%	8%	12%		33%								
Ascidacea (larvae)			61%																	39%								
Oithona spp.		65%	6%		12%								12%					6%										
Pseudocalanus spp.									29%						14%		14%				43%							
Calanus spp.													17%		17%		33%					33%						
Copepoda (nauplii)	25%			50%					25%																			
Euphysa spp. (medusa)															100%													
Bryozoa (larvae)	100%																											

Extra  
training  
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=6358)	0.92	0.76	0.83
Acartia spp. (n=2290-train=4410)	0.88	0.79	0.83
Oikopleura spp. (n=1773-train=4507)	0.82	0.82	0.82
Podon/Pleopsis spp. (n=607-train=3605)	0.32	0.53	0.40
Fritillaria spp. (n=475-train=844)	0.78	0.32	0.46
Evadne spp. (n=358-train=981)	0.52	0.65	0.58
Corycaeidae (n=335-train=1760)	0.56	0.72	0.63
Calanoida (ci-ciüi) (n=150-train=313)	0.35	0.13	0.19
Paracalanus spp. (n=141-train=1525)	0.23	0.82	0.36
Gastropoda (larvae/Limacina) (n=126-train=291)	0.83	0.23	0.36
Bivalvia (larvae) (n=96-train=119)	0.79	0.77	0.78
Polychaeta (larvae) (n=65-train=661)	0.30	0.25	0.27
Hydrozoa (medusa) (n=55-train=301)	0.32	0.82	0.46
Centropages spp. (n=50-train=119)	0.25	0.18	0.21
Echinodermata (larvae) (n=42-train=2649)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.18	0.78	0.30
Decapoda-brachyura (zoeae) (n=32-train=343)	0.26	0.78	0.39
Ctenophora (larvae) (n=31-train=29)	0.50	0.06	0.11
Decapoda-non brachyura (larvae) (n=26-train=219)	0.47	0.73	0.58
Ostracoda (n=25-train=18)	0.09	0.04	0.06
Tortanus spp. (n=24-train=88)	0.26	0.33	0.29
Ascidacea (larvae) (n=23-train=54)	0.90	0.39	0.55
Oithona spp. (n=17-train=44)	0.00	0.00	0.00
Pseudocalanus spp. (n=7-train=65)	0.23	0.43	0.30
Calanus spp. (n=6-train=37)	0.20	0.33	0.25
Copepoda (nauplii) (n=4-train=233)	0.00	0.00	0.00
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00
Bryozoa (larvae) (n=1-train=50)	0.00	0.00	0.00
Harpacticoida- epibenthic (n=0-train=47)	-	-	-
Platyhelminthes/Nemertea (larvae) (n=0-train=145)	-	-	-
macro avg (corr)	0.39	0.42	0.36
weighted avg	0.78	0.70	0.72
	precision	recall	f1-score



# Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

