

Use of SCN features: Yes
Max learning objects: 200 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 200 learning objects per class

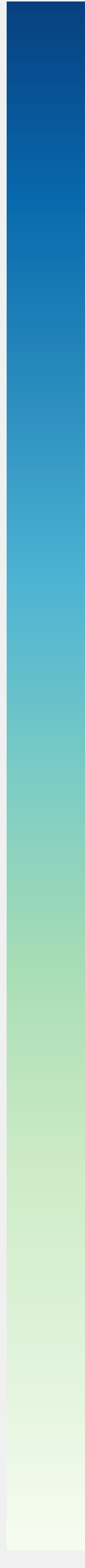
Actual Values

Cirripedia (larvae)	54%	2%	<1%	8%	<1%	4%		4%	2%	3%	<1%	<1%	2%	<1%	3%	1%	6%			<1%	3%		<1%	<1%	<1%	4%		<1%	<1%	<1%
Acartia spp.	<1%	40%	<1%		1%	<1%	20%	3%	14%			<1%		2%		<1%	<1%			<1%	2%		7%	7%	<1%	<1%			<1%	
Oikopleura spp.	<1%	1%	65%	<1%	9%	1%	<1%	1%	1%	<1%	<1%	<1%	2%	3%	4%		<1%	<1%	<1%	<1%	5%	<1%	<1%	<1%	<1%		<1%	<1%	2%	
Podon/Pleopsis spp.	5%	<1%	<1%	16%	<1%	13%	<1%	14%	15%	1%	<1%	2%	10%	<1%		<1%	2%	<1%		<1%			<1%	<1%		16%		<1%	<1%	<1%
Fritillaria spp.	<1%	2%	27%		54%	2%	1%		1%			<1%	<1%	<1%	6%	<1%					3%	1%								<1%
Evadne spp.	6%	1%	<1%	4%		65%	<1%	1%	6%	<1%	<1%		6%		1%	<1%		<1%		<1%					<1%		<1%			4%
Corycaeidae	<1%	6%	2%	1%		<1%	63%	3%	7%			2%		1%		<1%	<1%		<1%		1%	<1%	7%		<1%			2%	<1%	
Calanoida (ci-ciii)	9%	4%		5%	3%	8%	7%	28%	6%			5%	<1%		9%						2%				7%		1%	3%	1%	
Paracalanus spp.		2%				<1%	2%		54%				1%	2%				<1%			1%		30%	5%						
Gastropoda (larvae/Limacina)	2%	2%		8%	2%	6%		2%	2%	48%	10%	2%	2%								2%				10%		3%		<1%	
Bivalvia (larvae)				2%				1%		4%	79%														1%				12%	
Polychaeta (larvae)	14%	5%		8%	2%	2%	2%	5%	6%	2%		14%	6%	2%	2%	2%	6%		5%		2%		9%		8%		3%			
Hydrozoa (medusa)						4%			4%				84%	2%		4%	2%								2%					
Centropages spp.		8%	2%						4%					20%		2%	6%		14%		22%		14%	8%						
Echinodermata (larvae)				5%	2%	64%			2%			2%	14%			5%	2%								2%					
Calycophorae (nectophore)					3%								8%	3%		70%	3%		11%					3%						
Decapoda-brachyura (zoeae)							3%		3%				3%	3%			75%		6%		3%		3%							
Ctenophora (larvae)	3%					16%					3%		55%					13%							6%					3%
Decapoda-non brachyura (larvae)							4%						12%						81%											4%
Ostracoda						12%	4%				16%									36%										32%
Tortanus spp.		4%							4%					4%		17%	8%		12%		50%									
Ascidacea (larvae)			13%																			87%								
Oithona spp.		35%	6%		12%								12%					6%			24%							6%		
Pseudocalanus spp.																14%		14%					57%	14%						
Calanus spp.																		17%							83%					
Copepoda (nauplii)								25%																		75%				
Euphysa spp. (medusa)																100%														
Bryozoa (larvae)	100%																													

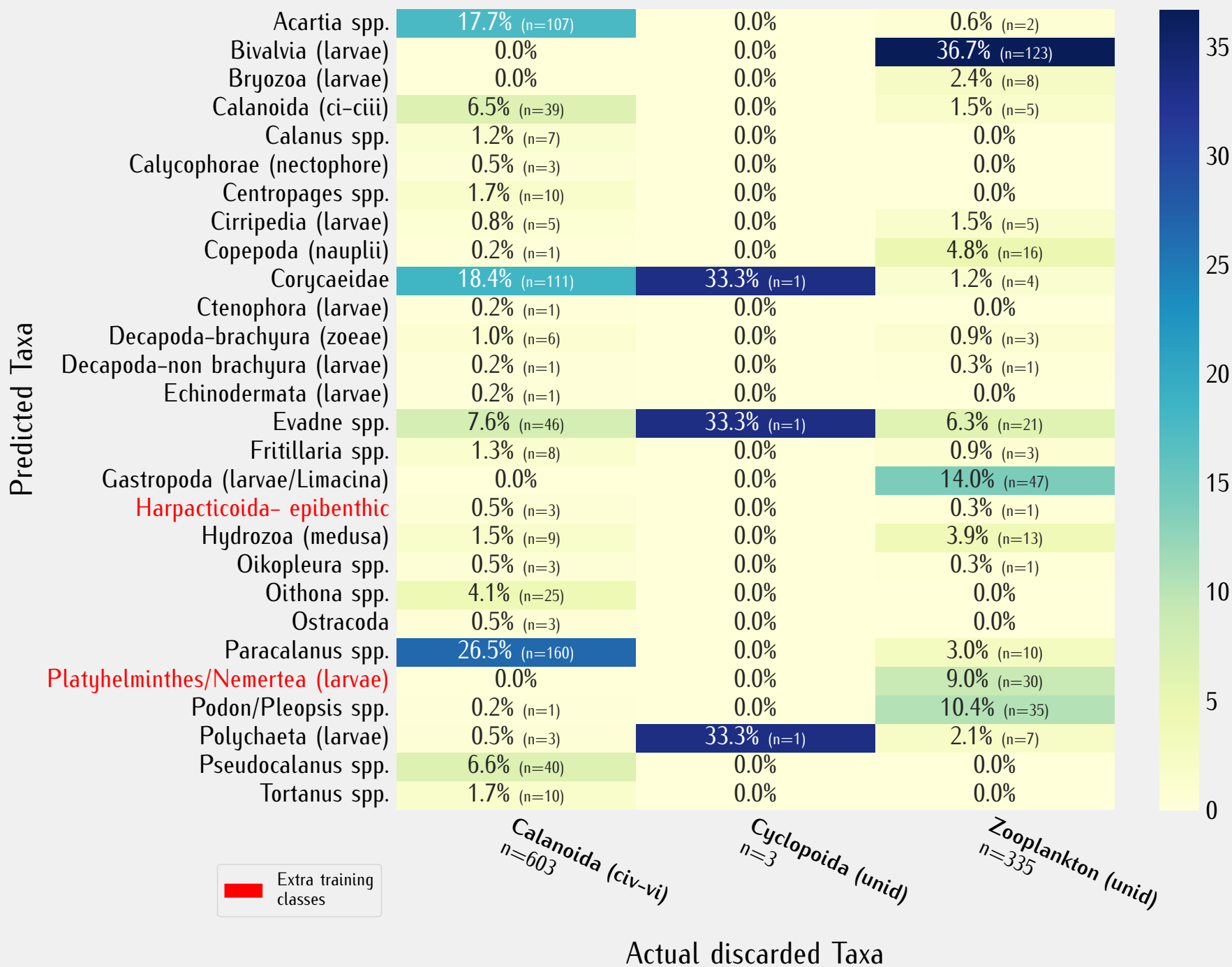
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Extra
training
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=200)	0.95	0.54	0.69
Acartia spp. (n=2290-train=200)	0.86	0.40	0.54
Oikopleura spp. (n=1773-train=200)	0.88	0.65	0.75
Podon/Pleopsis spp. (n=607-train=200)	0.23	0.16	0.19
Fritillaria spp. (n=475-train=200)	0.54	0.54	0.54
Evadne spp. (n=358-train=200)	0.44	0.65	0.52
Corycaeidae (n=335-train=200)	0.29	0.63	0.40
Calanoida (ci-ciüi) (n=150-train=200)	0.11	0.28	0.16
Paracalanus spp. (n=141-train=200)	0.12	0.54	0.19
Gastropoda (larvae/Limacina) (n=126-train=200)	0.35	0.48	0.40
Bivalvia (larvae) (n=96-train=119)	0.67	0.79	0.72
Polychaeta (larvae) (n=65-train=200)	0.18	0.14	0.16
Hydrozoa (medusa) (n=55-train=200)	0.20	0.84	0.32
Centropages spp. (n=50-train=119)	0.09	0.20	0.13
Echinodermata (larvae) (n=42-train=200)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=200)	0.16	0.70	0.26
Decapoda-brachyura (zoeae) (n=32-train=200)	0.09	0.75	0.17
Ctenophora (larvae) (n=31-train=29)	0.40	0.13	0.20
Decapoda-non brachyura (larvae) (n=26-train=200)	0.42	0.81	0.55
Ostracoda (n=25-train=18)	0.20	0.36	0.26
Tortanus spp. (n=24-train=88)	0.07	0.50	0.12
Ascidiaacea (larvae) (n=23-train=54)	0.18	0.87	0.30
Oithona spp. (n=17-train=44)	0.02	0.24	0.04
Pseudocalanus spp. (n=7-train=65)	0.02	0.57	0.03
Calanus spp. (n=6-train=37)	0.14	0.83	0.24
Copepoda (nauplii) (n=4-train=200)	0.01	0.75	0.02
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)	0.27	0.48	0.28
weighted avg	0.74	0.50	0.57
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

