

Use of SCN features: No  
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)	77%	2%	<1%	12%	<1%	2%		<1%	<1%	<1%	<1%	<1%	<1%		1%	1%	<1%			<1%			<1%	<1%		<1%
Acartia spp.	1%	79%	<1%	<1%	<1%	<1%	6%	<1%	8%			<1%		<1%	<1%	<1%	<1%			<1%		<1%	<1%			
Oikopleura spp.	2%	2%	81%	2%	2%	1%	<1%	<1%	<1%		<1%	<1%	<1%	<1%	2%	3%	<1%	<1%	<1%	<1%	<1%		<1%	<1%		1%
Podon/Pleopsis spp.	10%	2%	<1%	54%		10%	1%	3%	10%			3%	2%		<1%	1%					<1%		3%			<1%
Fritillaria spp.	<1%	5%	46%	<1%	41%	2%	<1%		<1%			<1%	<1%		3%					<1%						<1%
Evadne spp.	7%	1%	<1%	10%		69%	<1%		4%		<1%		4%		1%	<1%		<1%				<1%				<1%
Corycaeidae	<1%	13%	2%	1%		<1%	71%	1%	5%			<1%		<1%		<1%	<1%		<1%	<1%						<1%
Calanoida (ci-ciüi)	18%	16%	<1%	13%		5%	10%	13%	7%			3%			9%							4%	<1%			1%
Paracalanus spp.	<1%	8%	<1%	1%		2%	<1%		80%			<1%				<1%				2%	1%					1%
Gastropoda (larvae/Limacina)	7%	4%		37%		6%		2%	2%	27%	8%	2%	<1%		<1%							3%				2%
Bivalvia (larvae)				9%		1%				3%	74%											1%				11%
Polychaeta (larvae)	26%	5%		15%		5%	5%	3%	3%			25%	3%		2%	2%		6%				2%				
Hydrozoa (medusa)			2%	2%		4%			4%				82%		5%	2%										
Centropages spp.		24%	2%				2%					2%		16%		2%	18%	18%	12%		2%	2%				
Echinodermata (larvae)	2%			12%	2%	52%			2%				12%		10%		5%				2%					
Calycophorae (nectophore)											3%	8%			78%	8%		3%								
Decapoda-brachyura (zoeae)	3%	3%							6%				3%	3%	6%	69%		6%								
Ctenophora (larvae)	3%			13%		10%					13%	48%			3%		3%				3%					3%
Decapoda-non brachyura (larvae)		4%		4%								8%			8%			73%								4%
Ostracoda				4%		36%	4%				16%							8%								32%
Tortanus spp.	8%	4%											12%		21%	21%			33%							
Ascidiaacea (larvae)			48%																52%							
Oithona spp.		53%	12%		12%								12%					6%		6%						
Pseudocalanus spp.									14%				14%			14%	14%			43%						
Calanus spp.																33%	50%					17%				
Copepoda (nauplii)				50%				25%														25%				
Euphysa spp. (medusa)												33%			67%											
Bryozoa (larvae)	100%																									

Extra  
training  
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231–train=6358)	0.92	0.77	0.84
Acartia spp. (n=2290–train=4410)	0.88	0.79	0.83
Oikopleura spp. (n=1773–train=4507)	0.83	0.81	0.82
Podon/Pleopsis spp. (n=607–train=3605)	0.36	0.54	0.43
Fritillaria spp. (n=475–train=844)	0.80	0.41	0.54
Evadne spp. (n=358–train=981)	0.54	0.69	0.60
Corycaeidae (n=335–train=1760)	0.57	0.71	0.63
Calanoida (ci-ciüi) (n=150–train=313)	0.25	0.13	0.17
Paracalanus spp. (n=141–train=1525)	0.25	0.80	0.38
Gastropoda (larvae/Limacina) (n=126–train=291)	0.67	0.27	0.38
Bivalvia (larvae) (n=96–train=119)	0.75	0.74	0.74
Polychaeta (larvae) (n=65–train=661)	0.26	0.25	0.25
Hydrozoa (medusa) (n=55–train=301)	0.37	0.82	0.51
Centropages spp. (n=50–train=119)	0.22	0.16	0.19
Echinodermata (larvae) (n=42–train=2649)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37–train=966)	0.20	0.78	0.31
Decapoda-brachyura (zoeae) (n=32–train=343)	0.21	0.69	0.33
Ctenophora (larvae) (n=31–train=29)	0.20	0.03	0.06
Decapoda-non brachyura (larvae) (n=26–train=219)	0.42	0.73	0.54
Ostracoda (n=25–train=18)	0.15	0.08	0.11
Tortanus spp. (n=24–train=88)	0.28	0.33	0.30
Ascidiaacea (larvae) (n=23–train=54)	0.80	0.52	0.63
Oithona spp. (n=17–train=44)	0.08	0.06	0.07
Pseudocalanus spp. (n=7–train=65)	0.17	0.43	0.24
Calanus spp. (n=6–train=37)	0.25	0.17	0.20
Copepoda (nauplii) (n=4–train=233)	0.02	0.25	0.03
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)	0.37	0.43	0.36
weighted avg	0.78	0.71	0.73
	precision	recall	f1-score

0.8

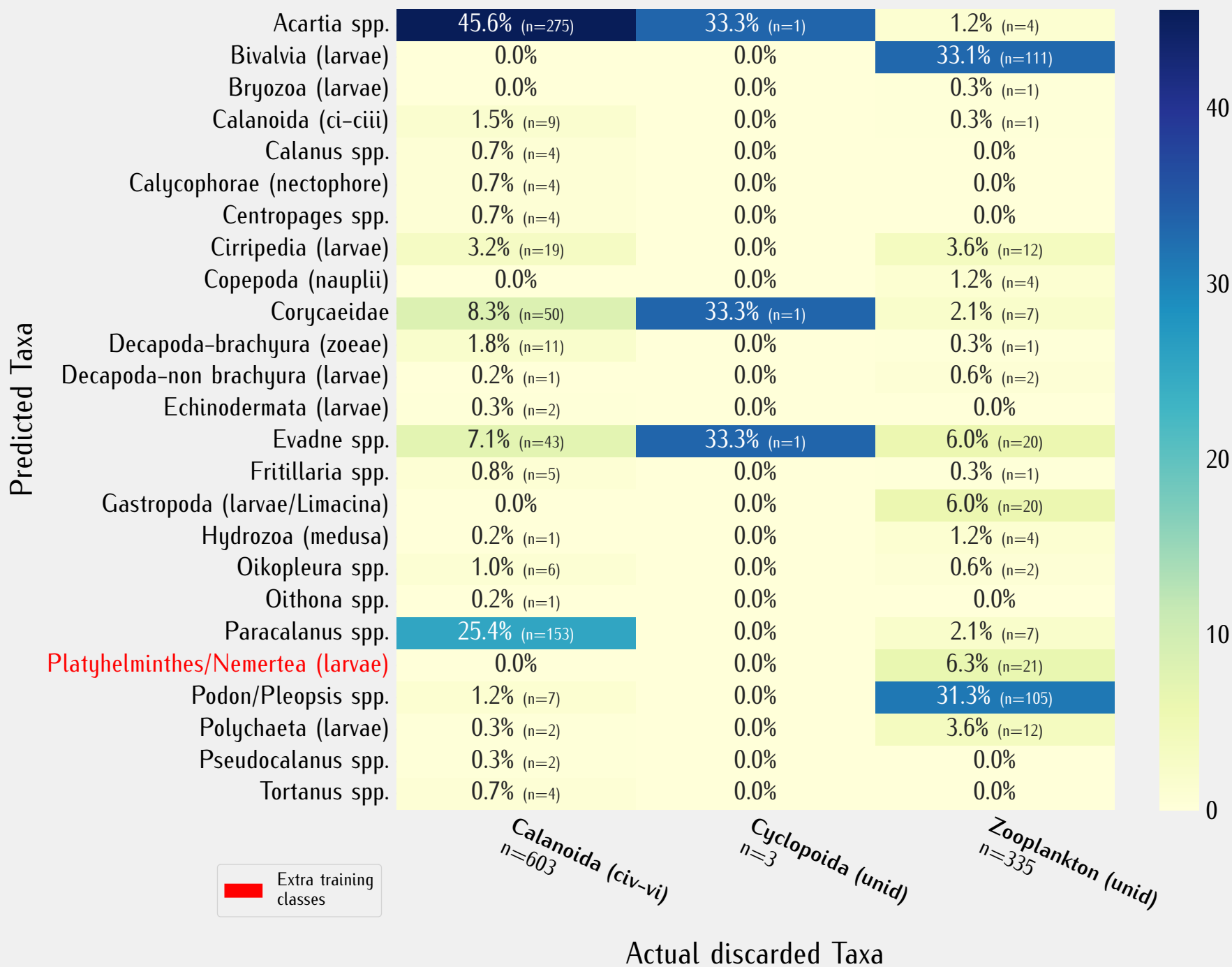
0.6

0.4

0.2

0.0

# Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

