

Use of SCN features: No
Max learning objects: 20000 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 20000 learning objects per class

Actual Values

Cirripedia (larvae)	77%	2%	<1%	12%	<1%	1%		<1%	<1%	<1%	<1%	<1%	<1%		1%	1%	<1%			<1%			<1%	<1%		<1%
Acartia spp.	<1%	79%	<1%	<1%	<1%	<1%	6%	<1%	9%			<1%		<1%	<1%	<1%	<1%				<1%		<1%	<1%		
Oikopleura spp.	2%	2%	81%	2%	2%	2%	<1%	<1%	1%			<1%	<1%	<1%	<1%	2%	3%	<1%	<1%	<1%		<1%	<1%		<1%	1%
Podon/Pleopsis spp.	10%	1%	<1%	54%		10%	1%	3%	11%	<1%		1%	3%			<1%	1%					<1%	3%			<1%
Fritillaria spp.	<1%	6%	45%	<1%	42%	2%	<1%		<1%			<1%	<1%		4%						<1%					<1%
Evadne spp.	7%	1%	<1%	9%		70%	<1%	<1%	4%			<1%		4%		<1%	<1%		<1%				<1%	<1%		1%
Corycaeidae	<1%	13%	2%	1%		<1%	71%	1%	5%			<1%		<1%		<1%	<1%		<1%		<1%					
Calanoida (ci-ciüi)	15%	16%	<1%	14%		5%	10%	14%	7%				4%			9%						4%	<1%		<1%	
Paracalanus spp.	<1%	7%	<1%	1%		2%	1%		79%			<1%					<1%			3%	2%					1%
Gastropoda (larvae/Limacina)	7%	4%		34%		5%		2%	2%	33%	8%	2%	<1%		<1%							2%				
Bivalvia (larvae)				9%		1%				2%	74%											1%				12%
Polychaeta (larvae)	26%	5%		15%		5%	3%	3%	3%			26%	2%			2%	2%	2%	6%			2%				
Hydrozoa (medusa)			2%	2%		2%			4%			2%	82%			5%	2%									
Centropages spp.		24%	4%				2%					2%		18%			18%	14%	12%		2%	4%				
Echinodermata (larvae)	5%			14%	2%	45%			5%				12%			10%		5%				2%				
Calycophorae (nectophore)												3%	8%			78%	8%		3%							
Decapoda-brachyura (zoeae)	3%	3%							6%				3%	3%		6%	62%		12%							
Ctenophora (larvae)	3%			16%		13%						10%	52%			3%		3%								
Decapoda-non brachyura (larvae)		4%										4%	8%				4%	4%	73%							4%
Ostracoda				4%		36%	4%				20%								8%							28%
Tortanus spp.	4%	8%												12%		21%	21%			33%						
Ascidiaacea (larvae)			52%																	48%						
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)	0.93	0.77	0.84
Acartia spp. (n=2290-train=4410)	0.89	0.79	0.84
Oikopleura spp. (n=1773-train=4507)	0.84	0.81	0.83
Podon/Pleopsis spp. (n=607-train=3605)	0.37	0.54	0.44
Fritillaria spp. (n=475-train=844)	0.81	0.42	0.55
Evadne spp. (n=358-train=981)	0.55	0.70	0.61
Corycaeidae (n=335-train=1760)	0.59	0.71	0.64
Calanoida (ci-ciüi) (n=150-train=313)	0.25	0.14	0.18
Paracalanus spp. (n=141-train=1525)	0.24	0.79	0.36
Gastropoda (larvae/Limacina) (n=126-train=291)	0.68	0.33	0.45
Bivalvia (larvae) (n=96-train=119)	0.71	0.74	0.72
Polychaeta (larvae) (n=65-train=661)	0.30	0.26	0.28
Hydrozoa (medusa) (n=55-train=301)	0.35	0.82	0.49
Centropages spp. (n=50-train=119)	0.23	0.18	0.20
Echinodermata (larvae) (n=42-train=2649)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.20	0.78	0.32
Decapoda-brachyura (zoeae) (n=32-train=343)	0.20	0.62	0.30
Ctenophora (larvae) (n=31-train=29)	0.14	0.03	0.05
Decapoda-non brachyura (larvae) (n=26-train=219)	0.41	0.73	0.53
Ostracoda (n=25-train=18)	0.14	0.08	0.10
Tortanus spp. (n=24-train=88)	0.28	0.33	0.30
Ascidiaacea (larvae) (n=23-train=54)	0.69	0.48	0.56
Oithona spp. (n=17-train=44)	0.08	0.06	0.07
Pseudocalanus spp. (n=7-train=65)	0.15	0.43	0.22
Calanus spp. (n=6-train=37)	0.14	0.17	0.15
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)	0.36	0.43	0.36
weighted avg	0.78	0.72	0.74
	precision	recall	f1-score

0.8

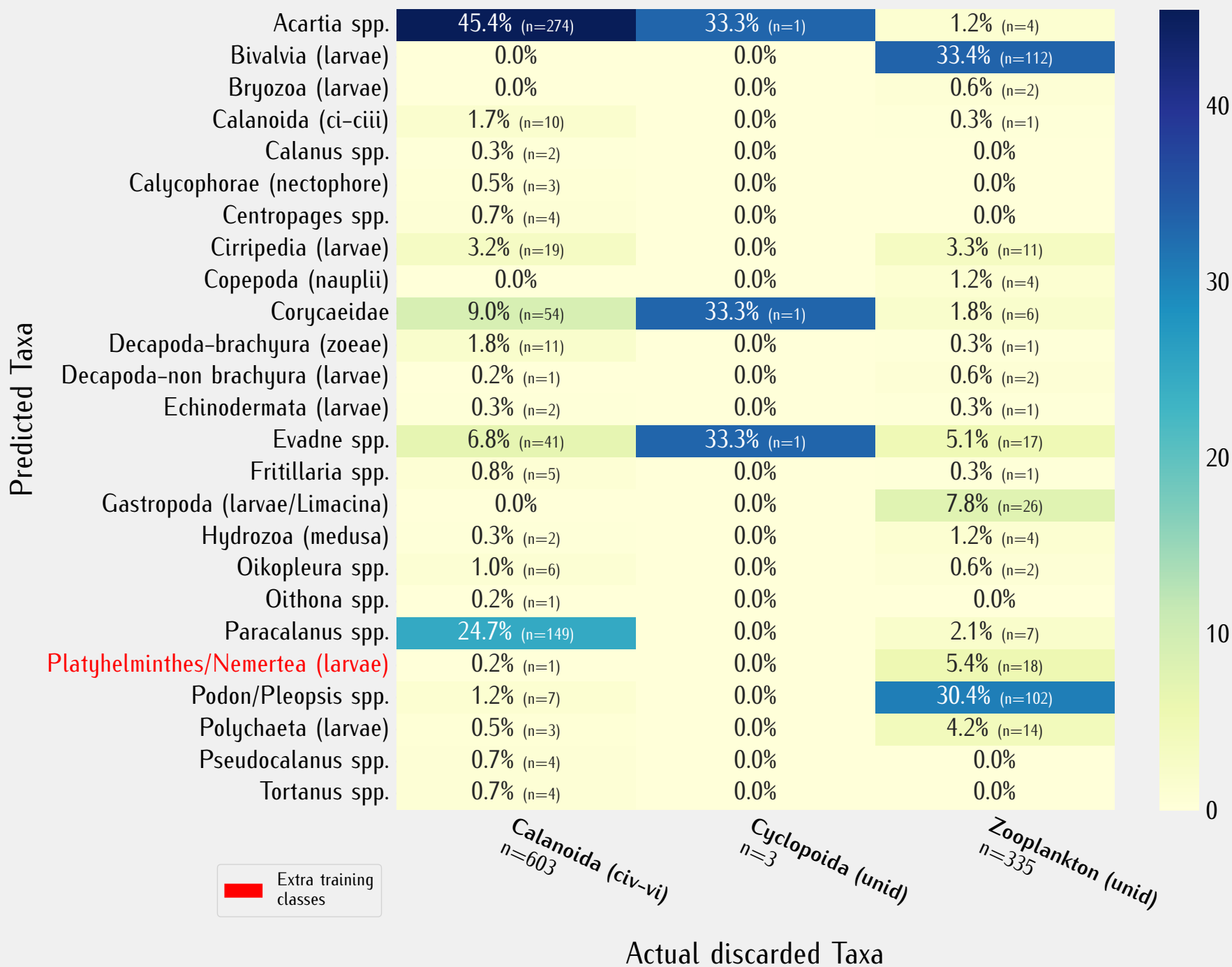
0.6

0.4

0.2

0.0

Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

