

Use of SCN features: No
Max learning objects: 200 objects/class
Strategy N° 4

PA Selected Samples prediction using PA training set,
Learning with selected samples classes with no low regional training instances, 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)	57%	3%	<1%	7%	<1%	3%		4%	2%	3%	<1%	<1%	1%	<1%	2%	1%	4%		3%		<1%	<1%	5%	1%		<1%
Acartia spp.	<1%	43%	<1%		<1%	<1%	17%	3%	14%			<1%		1%		<1%	<1%		2%	<1%	9%	5%	<1%		1%	
Oikopleura spp.	<1%	1%	62%	<1%	12%	1%	<1%	1%	1%	<1%	<1%	<1%	<1%	<1%	3%	4%	<1%	<1%	<1%	5%	<1%	<1%	<1%	<1%	<1%	2%
Podon/Pleopsis spp.	7%	<1%	<1%	17%		13%	<1%	15%	12%	<1%	<1%	4%	9%			<1%	2%			<1%	<1%	16%	<1%	<1%	<1%	
Fritillaria spp.	<1%	4%	23%		55%	2%	1%	<1%	<1%				<1%		6%	<1%			3%	2%				<1%	<1%	
Evadne spp.	6%	2%		4%		66%	<1%	<1%	6%	<1%	<1%		6%		1%	<1%	<1%					<1%	<1%	<1%	4%	
Corycaeidae	<1%	7%	2%	<1%		<1%	65%	2%	7%			2%		1%		<1%	<1%		1%		<1%	4%	<1%		1%	<1%
Calanoida (ci-ciui)	9%	7%		6%	2%	8%	5%	28%	5%			6%			9%					3%		8%	1%	2%	1%	
Paracalanus spp.		2%				<1%	2%		57%			<1%	2%	1%			2%		3%			28%				<1%
Gastropoda (larvae/Limacina)	<1%	2%		7%	<1%	7%		4%	2%	44%	9%	2%	2%							2%		10%	6%			2%
Bivalvia (larvae)								1%		5%	75%											2%	1%			16%
Polychaeta (larvae)	15%	5%		8%		3%	5%	5%		2%	12%	8%		2%	9%	5%	2%	2%		6%	9%	3%				2%
Hydrozoa (medusa)					5%			2%				2%	82%		4%	2%	2%					2%				
Centropages spp.		12%	2%			2%		2%						22%	2%	8%	16%	22%			12%					
Echinodermata (larvae)				2%	2%	60%		2%				5%	19%		5%							5%				
Calycophorae (nectophore)					3%							8%	3%		65%	3%	11%	5%			3%					
Decapoda-brachyura (zoeae)								3%				3%	12%		3%	47%	16%	12%			3%					
Decapoda-non brachyura (larvae)				4%								12%				4%	77%									4%
Tortanus spp.		8%											12%		8%	17%	4%	50%								
Ascidiaacea (larvae)			13%															87%								
Oithona spp.		35%			12%								12%				6%			29%					6%	
Pseudocalanus spp.													14%			14%	14%				57%					
Copepoda (nauplii)				25%				25%														50%				
Bryozoa (larvae)	100%																									

Predicted Values

Extra
training
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=200)	0.94	0.57	0.71
Acartia spp. (n=2290-train=200)	0.84	0.43	0.57
Oikopleura spp. (n=1773-train=200)	0.89	0.62	0.73
Podon/Pleopsis spp. (n=607-train=200)	0.27	0.17	0.21
Fritillaria spp. (n=475-train=200)	0.51	0.55	0.53
Evadne spp. (n=358-train=200)	0.46	0.66	0.54
Corycaeidae (n=335-train=200)	0.34	0.65	0.44
Calanoida (ci-ciui) (n=150-train=200)	0.11	0.28	0.15
Paracalanus spp. (n=141-train=200)	0.13	0.57	0.21
Gastropoda (larvae/Limacina) (n=126-train=200)	0.32	0.44	0.37
Bivalvia (larvae) (n=96-train=119)	0.71	0.75	0.73
Polychaeta (larvae) (n=65-train=200)	0.11	0.12	0.12
Hydrozoa (medusa) (n=55-train=200)	0.22	0.82	0.35
Centropages spp. (n=50-train=119)	0.14	0.22	0.17
Echinodermata (larvae) (n=42-train=200)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=200)	0.16	0.65	0.25
Decapoda-brachyura (zoeae) (n=32-train=200)	0.07	0.47	0.12
Decapoda-non brachyura (larvae) (n=26-train=200)	0.34	0.77	0.47
Tortanus spp. (n=24-train=88)	0.06	0.50	0.10
Ascidiaacea (larvae) (n=23-train=54)	0.15	0.87	0.25
Oithona spp. (n=17-train=44)	0.02	0.29	0.04
Pseudocalanus spp. (n=7-train=65)	0.02	0.57	0.04
Copepoda (nauplii) (n=4-train=200)	0.01	0.50	0.01
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)	0.28	0.48	0.30
weighted avg	0.74	0.52	0.59
	precision	recall	f1-score

0.8

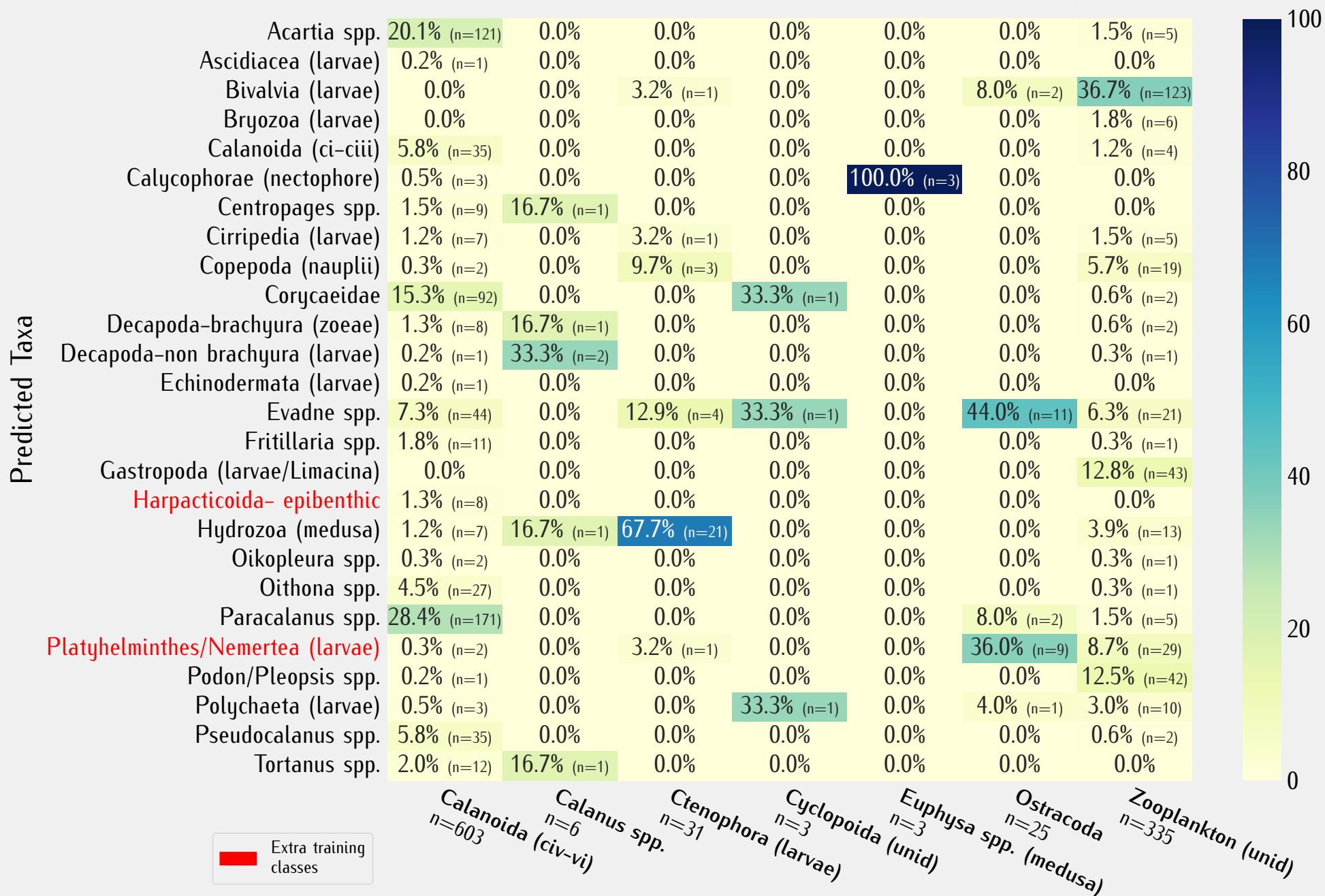
0.6

0.4

0.2

0.0

Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

