

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

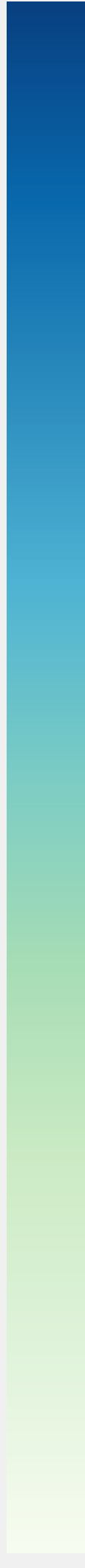
Actual Values

Cirripedia (larvae)	78%	1%	<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%	8%			<1%		<1%	<1%	<1%		<1%		<1%	<1%			
Oikopleura spp.	2%	2%	81%	2%	2%	1%	<1%	<1%	1%		<1%	<1%	<1%	2%	3%	<1%	<1%	<1%		<1%	<1%			1%
Podon/Pleopsis spp.	10%	1%	<1%	55%		10%	2%	2%	10%			2%	2%		<1%	1%				<1%	2%			<1%
Fritillaria spp.	<1%	6%	46%	<1%	40%	2%	<1%		<1%			<1%		4%				<1%	<1%					<1%
Evadne spp.	7%	1%	<1%	8%		71%	<1%	<1%	4%	<1%	<1%		4%		1%	<1%				<1%				<1%
Corycaeidae	<1%	14%	2%	1%		<1%	70%	1%	5%			<1%		<1%		<1%	<1%	<1%		<1%				<1%
Calanoida (ci-ciui)	15%	16%	<1%	15%		4%	10%	14%	7%			3%		9%						4%	<1%			1%
Paracalanus spp.	<1%	7%	<1%	1%		2%	1%		79%			<1%				<1%				4%				1%
Gastropoda (larvae/Limacina)	6%	4%		35%		5%		2%	3%	30%	8%	2%	<1%		<1%					2%				2%
Bivalvia (larvae)				10%			1%			3%	75%									1%				9%
Polychaeta (larvae)	25%	5%		15%		5%	3%	2%	3%			29%	2%		2%	2%	6%			2%	2%			
Hydrozoa (medusa)			2%	2%		2%			4%			4%	80%		5%	2%								
Centropages spp.		24%	2%				2%					2%		16%		2%	18%	16%	12%		6%			
Echinodermata (larvae)	5%			14%	2%	50%			2%				17%		7%					2%				
Calycophorae (nectophore)								3%				3%	11%		76%	5%	3%							
Decapoda-brachyura (zoeae)	3%	3%		3%					6%					6%	62%	12%				3%				
Decapoda-non brachyura (larvae)		4%		4%		4%						12%			8%	69%								
Tortanus spp.	4%	8%											12%		21%	25%		29%						
Ascidiaacea (larvae)			52%															48%						
Oithona spp.		47%	12%		12%		6%						12%				6%		6%					
Pseudocalanus spp.									14%				14%			14%	14%			43%				
Copepoda (nauplii)				50%				25%													25%			
Bryozoa (larvae)	100%																							

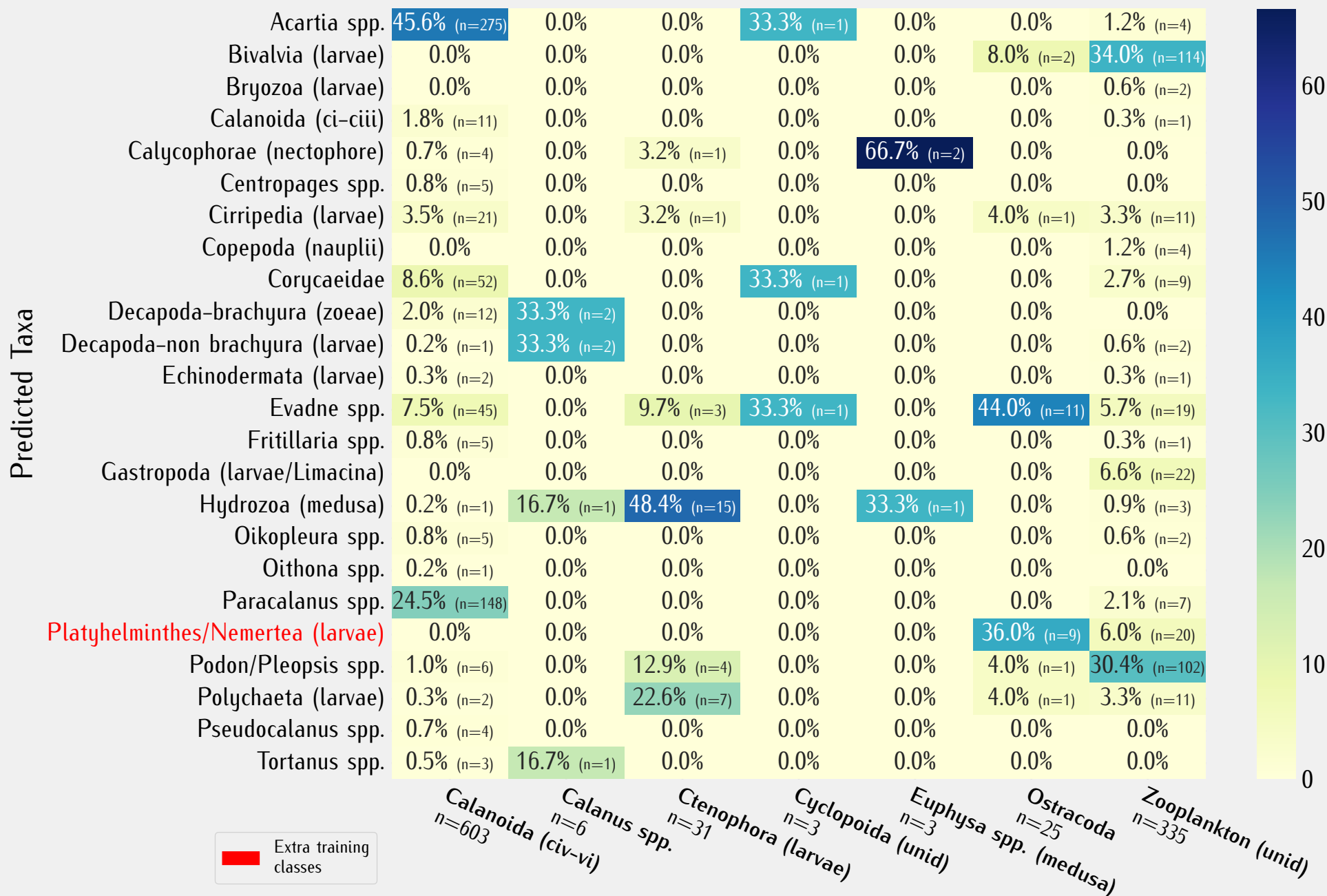
Predicted Values

Extra
training
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=6358)	0.92	0.78	0.84
Acartia spp. (n=2290-train=4410)	0.89	0.79	0.83
Oikopleura spp. (n=1773-train=4507)	0.84	0.81	0.82
Podon/Pleopsis spp. (n=607-train=3605)	0.37	0.55	0.44
Fritillaria spp. (n=475-train=844)	0.78	0.40	0.53
Evadne spp. (n=358-train=981)	0.57	0.71	0.63
Corycaeidae (n=335-train=1760)	0.55	0.70	0.61
Calanoida (ci-ciui) (n=150-train=313)	0.28	0.14	0.19
Paracalanus spp. (n=141-train=1525)	0.24	0.79	0.37
Gastropoda (larvae/Limacina) (n=126-train=291)	0.68	0.30	0.42
Bivalvia (larvae) (n=96-train=119)	0.77	0.75	0.76
Polychaeta (larvae) (n=65-train=661)	0.28	0.29	0.29
Hydrozoa (medusa) (n=55-train=301)	0.39	0.80	0.52
Centropages spp. (n=50-train=119)	0.22	0.16	0.18
Echinodermata (larvae) (n=42-train=2649)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.20	0.76	0.32
Decapoda-brachyura (zoeae) (n=32-train=343)	0.19	0.62	0.29
Decapoda-non brachyura (larvae) (n=26-train=219)	0.42	0.69	0.52
Tortanus spp. (n=24-train=88)	0.28	0.29	0.29
Ascidiaacea (larvae) (n=23-train=54)	0.79	0.48	0.59
Oithona spp. (n=17-train=44)	0.06	0.06	0.06
Pseudocalanus spp. (n=7-train=65)	0.13	0.43	0.20
Copepoda (nauplii) (n=4-train=233)	0.02	0.25	0.04
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)	0.41	0.48	0.41
weighted avg	0.78	0.72	0.74
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

