

Use of SCN features: No
Max learning objects: Maximum 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

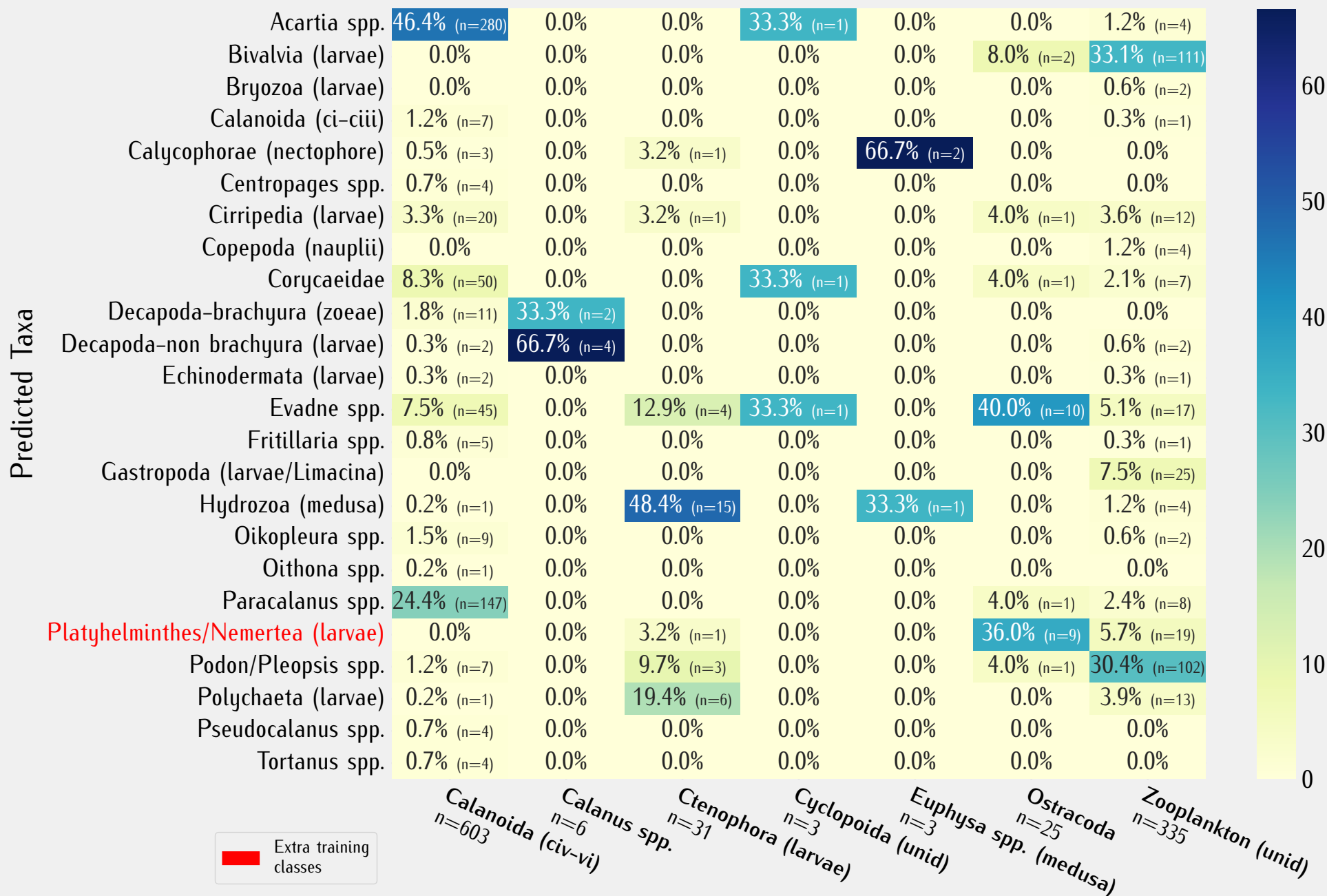
Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max available learning objects per class

Actual Values	Predicted Values																									
	Cirripedia (larvae)	Acartia spp.	Oikopleura spp.	Podon/Pleopsis spp.	Fritillaria spp.	Evadne spp.	Corycaeidae	Calanoida (ci-ciii)	Paracalanus spp.	Gastropoda (larvae/Limacina)	Bivalvia (larvae)	Polychaeta (larvae)	Hydrozoa (medusa)	Centropages spp.	Echinodermata (larvae)	Calycophorae (nectophore)	Decapoda-brachyura (zoeae)	Decapoda-non brachyura (larvae)	Tortanus spp.	Ascidiaacea (larvae)	Oithona spp.	Pseudocalanus spp.	Copepoda (nauplii)	Bryozoa (larvae)	Haracticoida- epibenthic	Platyhelminthes/Nemertea (larvae)
	78%	1%	<1%	12%	<1%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	79%	<1%	<1%	<1%	<1%	6%	<1%	8%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	2%	2%	81%	2%	2%	1%	<1%	<1%	1%	<1%	<1%	<1%	<1%	2%	3%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	1%
	10%	1%	<1%	54%	<1%	10%	1%	3%	10%	<1%	<1%	3%	2%	<1%	1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	6%	46%	<1%	41%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	7%	1%	<1%	9%	<1%	71%	<1%	<1%	4%	<1%	<1%	4%	1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	1%
	<1%	14%	2%	1%	<1%	70%	<1%	5%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	17%	16%	<1%	13%	<1%	4%	10%	13%	7%	<1%	<1%	9%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	1%
	<1%	9%	<1%	2%	<1%	2%	1%	<1%	78%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	7%	4%	<1%	36%	<1%	5%	<1%	2%	2%	29%	9%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	<1%	<1%	9%	<1%	<1%	1%	<1%	<1%	3%	76%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	9%
	26%	5%	<1%	18%	<1%	5%	3%	<1%	2%	<1%	<1%	29%	3%	<1%	2%	2%	5%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	<1%	2%	2%	<1%	2%	<1%	4%	<1%	<1%	<1%	4%	80%	<1%	5%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	24%	4%	<1%	<1%	<1%	2%	<1%	<1%	<1%	<1%	20%	<1%	18%	16%	12%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	5%	<1%	<1%	14%	2%	50%	<1%	2%	<1%	<1%	<1%	17%	<1%	7%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	<1%	<1%	<1%	<1%	<1%	3%	<1%	<1%	<1%	<1%	3%	11%	<1%	76%	5%	3%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	3%	3%	<1%	<1%	<1%	<1%	<1%	6%	<1%	<1%	<1%	3%	<1%	6%	62%	12%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	4%	<1%	4%	<1%	4%	<1%	<1%	<1%	<1%	<1%	4%	<1%	<1%	8%	77%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	4%	4%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	12%	21%	33%	<1%	25%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	<1%	48%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	52%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	53%	12%	<1%	12%	<1%	6%	<1%	<1%	<1%	<1%	6%	<1%	<1%	<1%	6%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
	<1%	<1%	<1%	<1%	<1%	<1%	<1%	14%	<1%	<1%	<1%	14%	<1%	<1%	14%	14%	<1%	<1%	<1%	<1%	43%	<1%	<1%	<1%	<1%	<1%
	<1%	<1%	<1%	50%	<1%	<1%	25%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	25%	<1%	<1%	<1%	<1%
	100%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%

	Classification Report Matrix		
	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=6358)	0.93	0.78	0.85
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	0.54	0.44
Fritillaria spp. (n=475-train=844)	0.79	0.41	0.54
Evadne spp. (n=358-train=981)	0.56	0.71	0.63
Corycaeidae (n=335-train=1760)	0.56	0.70	0.62
Calanoida (ci-ciii) (n=150-train=313)	0.25	0.13	0.17
Paracalanus spp. (n=141-train=1525)	0.24	0.78	0.37
Gastropoda (larvae/Limacina) (n=126-train=291)	0.64	0.29	0.40
Bivalvia (larvae) (n=96-train=119)	0.77	0.76	0.76
Polychaeta (larvae) (n=65-train=661)	0.31	0.29	0.30
Hydrozoa (medusa) (n=55-train=301)	0.38	0.80	0.51
Centropages spp. (n=50-train=119)	0.29	0.20	0.24
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)	0.18	0.62	0.28
Decapoda-non brachyura (larvae) (n=26-train=219)	0.45	0.77	0.57
Tortanus spp. (n=24-train=88)	0.21	0.25	0.23
Ascidiaacea (larvae) (n=23-train=54)	0.75	0.52	0.62
Oithona spp. (n=17-train=44)	0.06	0.06	0.06
Pseudocalanus spp. (n=7-train=65)	0.12	0.43	0.19
Copepoda (nauplii) (n=4-train=233)	0.02	0.25	0.04
Bryozoa (larvae) (n=1-train=50)	0.00	0.00	0.00
Haracticoida- epibenthic (n=0-train=47)	-	-	-
Platyhelminthes/Nemertea (larvae) (n=0-train=145)	-	-	-
macro avg (corr)	0.41	0.49	0.41
weighted avg	0.79	0.72	0.74
	precision	recall	f1-score

Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

