

Use of SCN features: No
Max learning objects: Maximum objects/class
Strategy N° 8

PA Selected Samples prediction using all regions training set,
Learning with selected samples classes with no low global training instances, with extra regional training categories,
No Calanoida (civ-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)	73%	2%	<1%	11%	<1%	7%	<1%	<1%	<1%	1%		<1%	<1%	<1%	1%	<1%	<1%		<1%			<1%	<1%		<1%	<1%
Acartia spp.	<1%	70%	<1%	<1%	<1%	1%	7%	2%	2%				<1%	<1%		<1%	<1%		<1%	<1%	16%	<1%		<1%		
Oikopleura spp.	1%	2%	67%	2%	18%	3%	<1%	1%	<1%	<1%	<1%	<1%	<1%	<1%	2%			<1%	<1%	<1%	<1%	<1%		<1%	<1%	<1%
Podon/Pleopsis spp.	9%	4%	<1%	46%		27%	1%	2%	4%	1%		2%	<1%				<1%	<1%		<1%	<1%		<1%	<1%		<1%
Fritillaria spp.		3%	21%	<1%	65%	1%		<1%	<1%			<1%	1%		1%				<1%	4%			<1%	<1%	<1%	<1%
Evadne spp.	4%	<1%	<1%	5%		72%	<1%	3%	1%	2%	<1%		8%		<1%	<1%		<1%		<1%		<1%	1%			
Corycaeidae	<1%	36%	<1%	1%	<1%	1%	49%	1%	2%					<1%		<1%		<1%		2%	2%		<1%	<1%	<1%	<1%
Calanoida (ci-ciui)	11%	11%	<1%	14%		14%	10%	20%	1%			<1%			3%					11%			2%		1%	
Paracalanus spp.	<1%	19%	<1%	1%		2%		4%	47%												26%					
Gastropoda (larvae/Limacina)	4%	3%		17%		11%		2%		53%	6%						<1%			2%			<1%			
Bivalvia (larvae)				6%			1%			5%	82%		3%										2%			
Polychaeta (larvae)	12%	8%		14%		17%		2%		2%		29%	2%			5%		3%		2%		5%	2%			
Hydrozoa (medusa)		4%				7%				2%		13%	64%		4%		2%	2%			2%		2%			
Centropages spp.		44%			4%													8%			12%	8%				
Echinodermata (larvae)					2%	7%						5%	76%		5%		2%	2%								
Calycophorae (nectophore)								3%				3%	3%	5%		73%		8%			5%					
Decapoda-brachyura (zoeae)	3%	25%		3%		3%								9%	6%	28%		9%			3%	9%				
Ctenophora (larvae)	3%			6%		13%				13%		23%	26%		3%		10%	3%								
Decapoda-non brachyura (larvae)				4%								4%	4%					77%				12%				
Tortanus spp.	4%	25%			4%									17%	17%	4%			25%	4%						
Ascidiaacea (larvae)			4%		17%														78%							
Oithona spp.		53%	6%		12%								6%								24%					
Pseudocalanus spp.		29%																				71%				
Calanus spp.													17%				33%				50%					
Copepoda (nauplii)				25%				25%															50%			
Bryozoa (larvae)	100%																									

Predicted Values

Extra
training
classes

precision

recall

f1-score

Cirripedia (larvae) (n=3231-train=7685)	0.94	0.73	0.82
Acartia spp. (n=2290-train=111319)	0.82	0.70	0.76
Oikopleura spp. (n=1773-train=5305)	0.90	0.67	0.77
Podon/Pleopsis spp. (n=607-train=7347)	0.37	0.46	0.41
Fritillaria spp. (n=475-train=6992)	0.47	0.65	0.55
Evadne spp. (n=358-train=11064)	0.32	0.72	0.44
Corycaeidae (n=335-train=1760)	0.47	0.49	0.48
Calanoida (ci-ciui) (n=150-train=5557)	0.21	0.20	0.21
Paracalanus spp. (n=141-train=1619)	0.44	0.47	0.46
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.49	0.53	0.51
Bivalvia (larvae) (n=96-train=3764)	0.88	0.82	0.85
Polychaeta (larvae) (n=65-train=1577)	0.30	0.29	0.30
Hydrozoa (medusa) (n=55-train=4052)	0.21	0.64	0.32
Centropages spp. (n=50-train=3620)	0.38	0.24	0.29
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.26	0.73	0.39
Decapoda-brachyura (zoeae) (n=32-train=628)	0.39	0.28	0.33
Ctenophora (larvae) (n=31-train=42)	0.33	0.10	0.15
Decapoda-non brachyura (larvae) (n=26-train=423)	0.49	0.77	0.60
Tortanus spp. (n=24-train=203)	0.46	0.25	0.32
Ascidiaacea (larvae) (n=23-train=861)	0.62	0.78	0.69
Oithona spp. (n=17-train=5881)	0.01	0.24	0.02
Pseudocalanus spp. (n=7-train=4845)	0.06	0.71	0.12
Calanus spp. (n=6-train=359)	0.00	0.00	0.00
Copepoda (nauplii) (n=4-train=11555)	0.04	0.50	0.08
Bryozoa (larvae) (n=1-train=1142)	0.00	0.00	0.00
Harpacticoida- epibenthic (n=0-train=555)	-	-	-
Platyhelminthes/Nemertea (larvae) (n=0-train=183)	-	-	-
macro avg (corr)	0.38	0.46	0.38
weighted avg	0.76	0.65	0.69
	precision	recall	f1-score

0.8

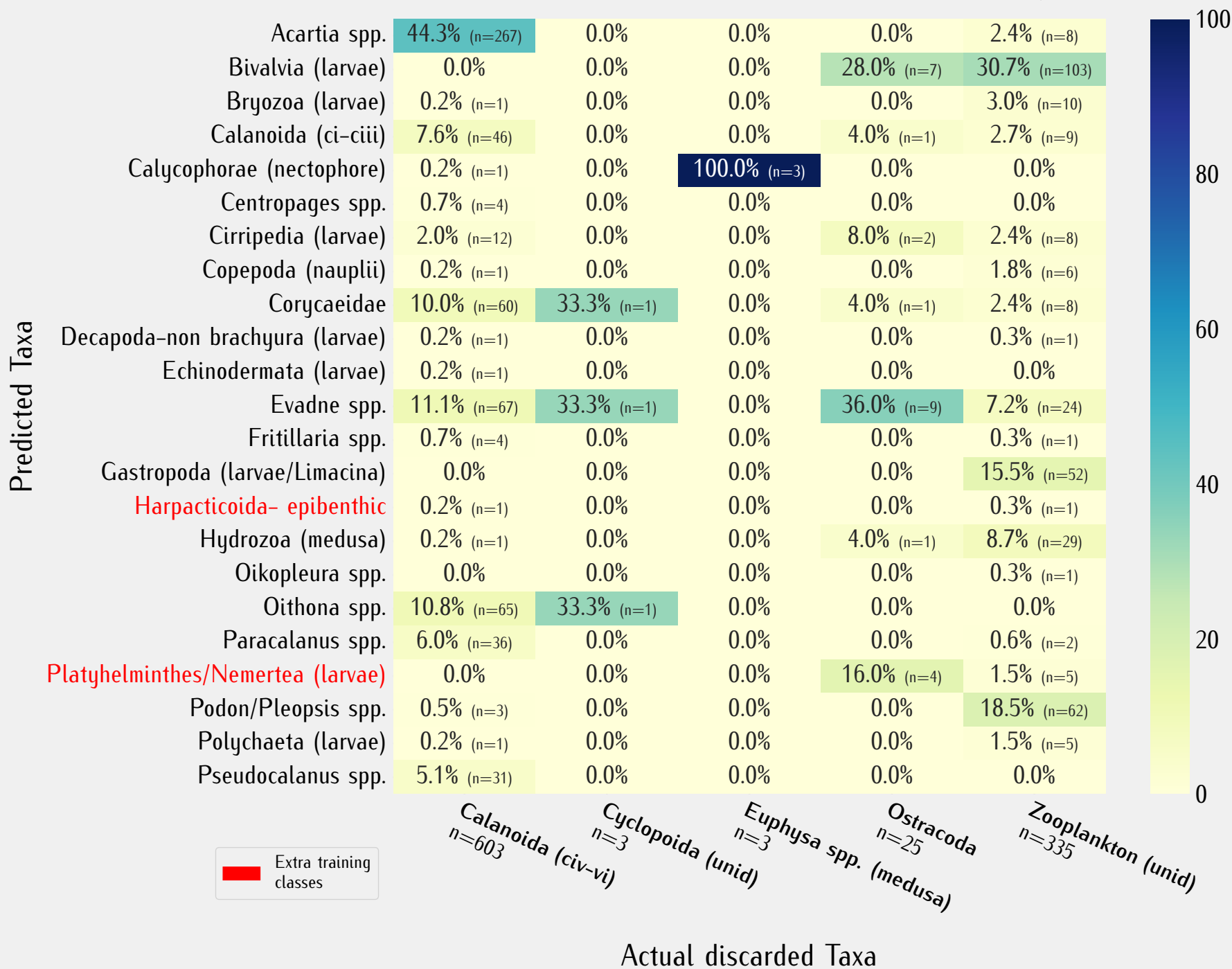
0.6

0.4

0.2

0.0

Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

