

Use of SCN features: No
Max learning objects: Maximum objects/class
Strategy N° 6

PA Selected Samples prediction using all regions training set,
Learning with all classes present in the selected samples, with extra regional 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

Cirripedia (larvae)	73%	2%	<1%	11%	<1%	7%	<1%	<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%	1%				<1%	<1%		<1%	<1%				<1%		16%	<1%		<1%	
Oikopleura spp.	1%	2%	67%	2%	18%	3%	<1%	1%	<1%	<1%		<1%	<1%	<1%	2%			<1%		<1%	<1%	<1%	<1%		<1%	<1%	<1%
Podon/Pleopsis spp.	8%	4%	<1%	47%		26%	1%	2%	4%	<1%		2%	<1%				<1%	<1%				<1%	<1%		<1%	<1%	<1%
Fritillaria spp.		3%	21%		65%	1%	<1%	<1%					2%		1%				<1%	4%		<1%	<1%	<1%			
Evadne spp.	4%	<1%	<1%	4%		73%	<1%	2%	1%	2%	1%		8%		<1%	<1%		<1%			<1%		<1%	1%			
Corycaeidae	<1%	37%	<1%	1%	<1%	1%	48%	1%	1%					<1%		<1%		<1%		2%	2%			<1%	<1%		
Calanoida (ci-ciüi)	11%	11%	<1%	16%		13%	11%	14%	3%			<1%			4%							11%			2%		2%
Paracalanus spp.	<1%	21%	<1%	3%		3%		1%	43%					<1%									28%				
Gastropoda (larvae/Limacina)	2%	2%		17%		13%		3%		53%	6%							<1%				2%			<1%		
Bivalvia (larvae)				5%			1%			5%	82%		3%												2%		1%
Polychaeta (larvae)	15%	8%		14%		15%	2%	2%		2%		26%	2%			6%		3%		2%			3%	2%			
Hydrozoa (medusa)		4%				9%				2%		15%	62%		4%		2%	2%				2%			2%		
Centropages spp.		50%			4%									22%				2%		6%			8%	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%	25%		9%				6%	9%				
Ctenophora (larvae)	3%			6%		13%				10%		26%	29%		3%		10%										
Decapoda-non brachyura (larvae)		4%		4%								4%	4%					73%					12%				
Ostracoda	8%			4%		32%	4%				28%								8%								16%
Tortanus spp.	4%	29%												17%		17%	4%			25%		4%					
Ascidiaacea (larvae)			13%		17%																70%						
Oithona spp.		47%	6%		18%									6%								24%					
Pseudocalanus spp.		29%																					71%				
Calanus spp.		17%															50%					17%	17%				
Copepoda (nauplii)				25%				25%																50%			
Euphysa spp. (medusa)															100%												
Bryozoa (larvae)	100%																										

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)	0.81	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	0.47	0.42
Fritillaria spp. (n=475-train=6992)	0.47	0.65	0.54
Evadne spp. (n=358-train=11064)	0.33	0.73	0.45
Corycaeidae (n=335-train=1760)	0.46	0.48	0.47
Calanoida (ci-ciüi) (n=150-train=5557)	0.16	0.14	0.15
Paracalanus spp. (n=141-train=1619)	0.44	0.43	0.43
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.50	0.53	0.51
Bivalvia (larvae) (n=96-train=3764)	0.81	0.82	0.82
Polychaeta (larvae) (n=65-train=1577)	0.29	0.26	0.28
Hydrozoa (medusa) (n=55-train=4052)	0.20	0.62	0.31
Centropages spp. (n=50-train=3620)	0.41	0.22	0.29
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.25	0.73	0.37
Decapoda-brachyura (zoeae) (n=32-train=628)	0.36	0.25	0.30
Ctenophora (larvae) (n=31-train=42)	0.38	0.10	0.15
Decapoda-non brachyura (larvae) (n=26-train=423)	0.46	0.73	0.57
Ostracoda (n=25-train=25)	0.25	0.08	0.12
Tortanus spp. (n=24-train=203)	0.50	0.25	0.33
Ascidiaacea (larvae) (n=23-train=861)	0.64	0.70	0.67
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)	0.09	0.17	0.12
Copepoda (nauplii) (n=4-train=11555)	0.04	0.50	0.08
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00
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)	0.36	0.43	0.35
weighted avg	0.76	0.65	0.69
	precision	recall	f1-score

0.8

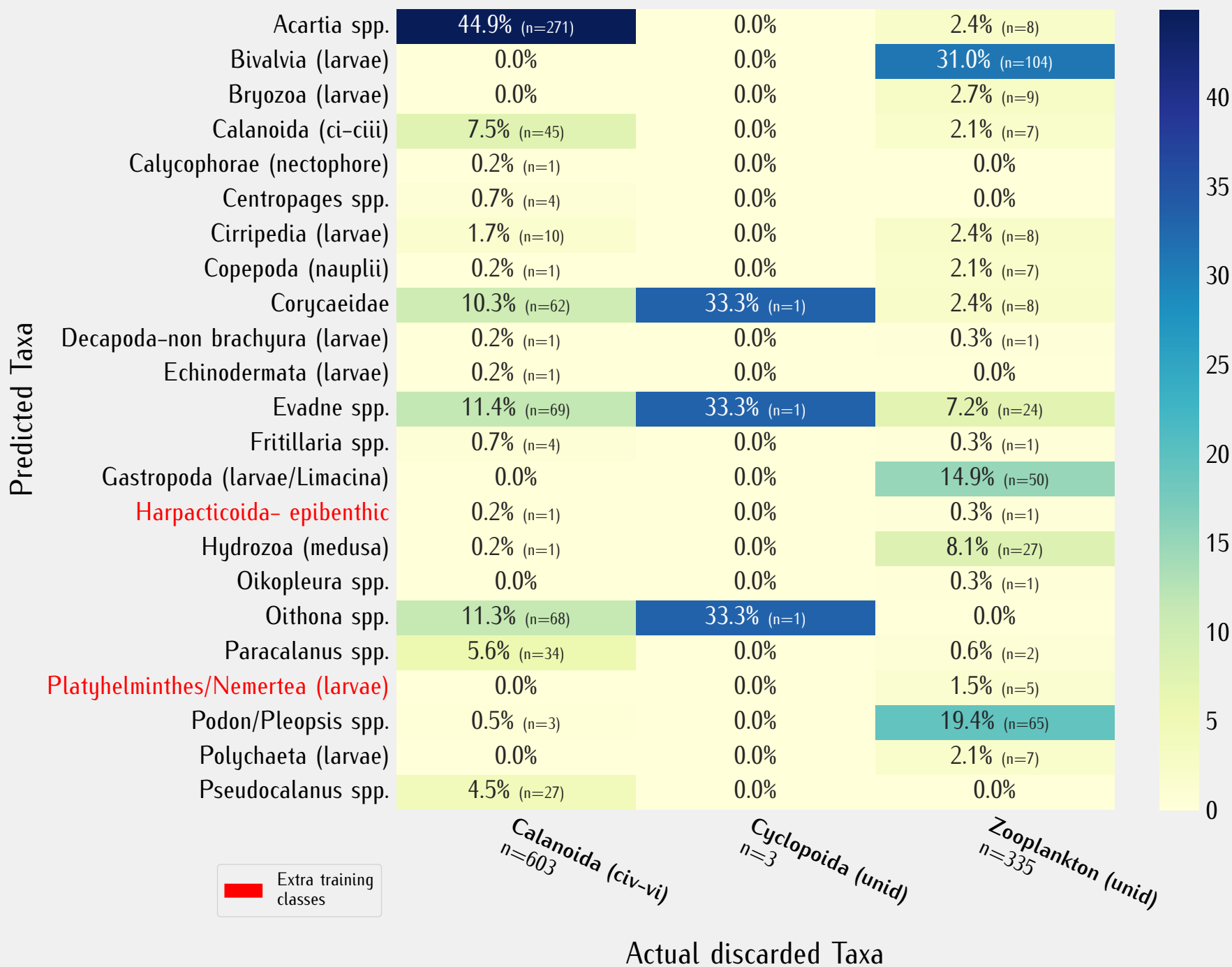
0.6

0.4

0.2

0.0

Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

