

Use of SCN features: No
Max learning objects: Maximum objects/class
Strategy N° 7

PA Selected Samples prediction using all regions training set,
Learning with selected samples classes with no low global training instances, no extra training categories,
No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

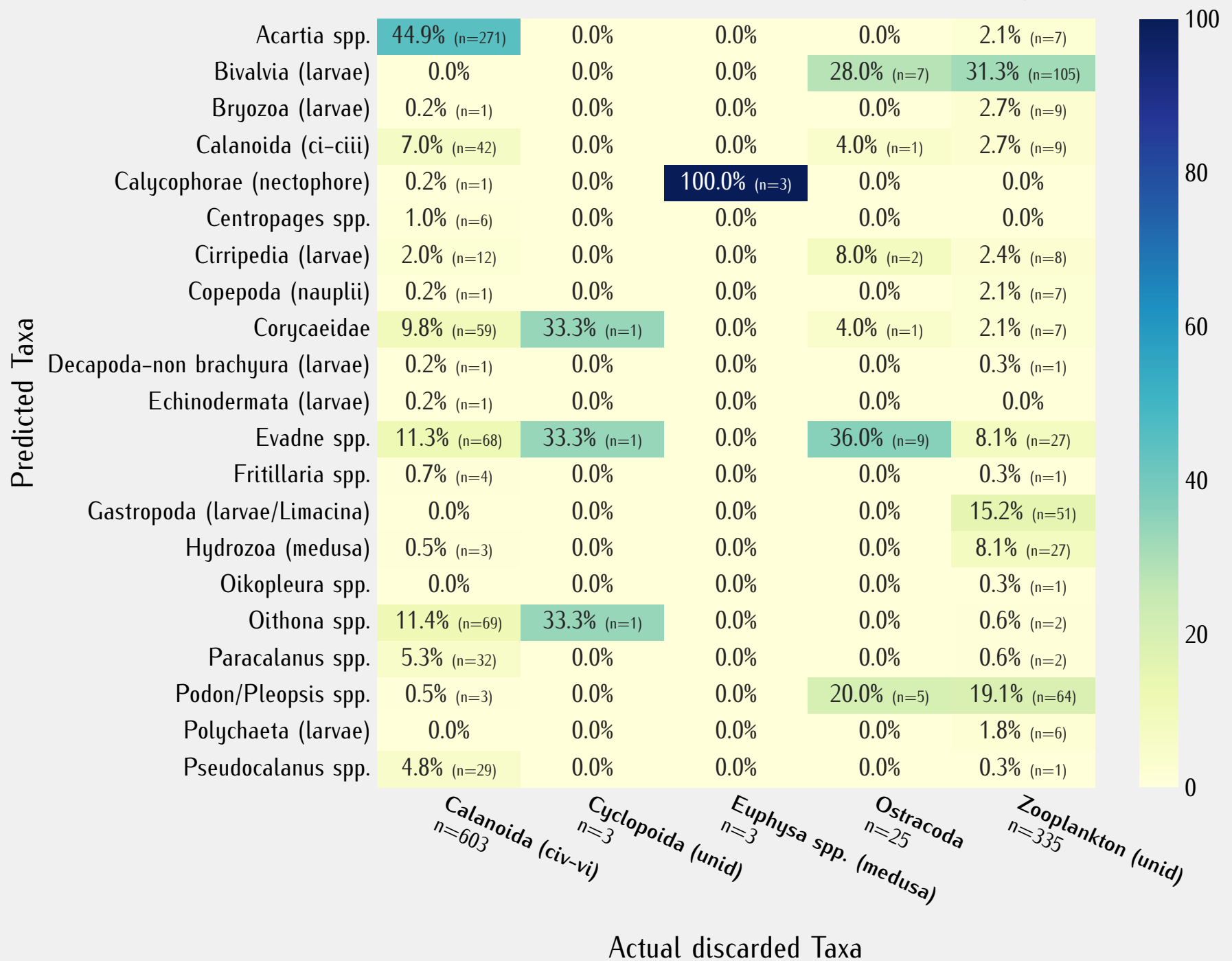
Confusion Matrix – In percent of Actual Value

Actual Values																												
	Cirripedia (larvae)	Acartia spp.	Oikopleura spp.	Podon/Pleopsis spp.	Fritillaria spp.	Evadne spp.	Corycaeidae	Calanoida (ci-ciüi)	Paracalanus spp.	Gastropoda (larvae/Limacina)	Bivalvia (larvae)	Polychaeta (larvae)	Hydrozoa (medusa)	Centropages spp.	Echinodermata (larvae)	Calycophorae (nectophore)	Decapoda-brachyura (zoeae)	Ctenophora (larvae)	Decapoda-non brachyura (larvae)	Tortanus spp.	Ascidiaacea (larvae)	Oithona spp.	Pseudocalanus spp.	Calanus spp.	Copepoda (nauplii)	Bryozoa (larvae)		
Cirripedia (larvae)	74%	2%	<1%	11%	<1%	7%		<1%	1%		<1%	<1%	<1%	1%	<1%	<1%		<1%			<1%	<1%		<1%	<1%			
Acartia spp.	<1%	71%	<1%	<1%	<1%	1%	6%	2%	2%			<1%	<1%		<1%	<1%		<1%			16%	<1%						
Oikopleura spp.	1%	2%	67%	2%	17%	3%	<1%	1%	<1%	<1%	<1%	<1%	<1%	2%			<1%	<1%	<1%	<1%	<1%		<1%	<1%		<1%	<1%	
Podon/Pleopsis spp.	8%	4%	<1%	48%		27%	1%	2%	4%	1%	<1%	1%	<1%				<1%	<1%			<1%	<1%		<1%	<1%		<1%	<1%
Fritillaria spp.		3%	20%	<1%	66%	<1%		<1%				2%		2%							<1%	5%			<1%	<1%		<1%
Evadne spp.	4%	<1%	<1%	4%	<1%	73%	<1%	3%	1%	2%	<1%		7%		<1%			<1%			<1%				<1%	<1%		<1%
Corycaeidae	<1%	38%	<1%	1%	<1%	<1%	48%	1%	2%				<1%		<1%			<1%					2%	2%		<1%		<1%
Calanoida (ci-ciüi)	11%	9%	<1%	14%		15%	11%	17%	2%	<1%		1%					3%							13%			2%	
Paracalanus spp.	<1%	21%	<1%	1%		2%		4%	43%															28%				
Gastropoda (larvae/Limacina)	3%	2%		17%		13%		2%		53%	6%	<1%												2%			<1%	
Bivalvia (larvae)				5%		1%	1%			5%	82%		3%														2%	
Polychaeta (larvae)	14%	9%		12%		15%	2%	3%		2%		28%	2%			5%					3%		2%		3%		2%	
Hydrozoa (medusa)		4%				7%		2%	2%	2%		11%	62%			4%		2%	4%								2%	
Centropages spp.		48%			4%										22%						2%	6%		10%	8%			
Echinodermata (larvae)				2%	2%	7%									2%	76%			5%		2%	2%						
Calycophorae (nectophore)								3%							3%	3%	5%		73%			8%			5%			
Decapoda-brachyura (zoeae)	3%	25%		3%													12%		6%	25%		6%		6%	9%		3%	
Ctenophora (larvae)	3%			6%		16%									10%		23%	26%		3%		10%	3%					
Decapoda-non brachyura (larvae)				4%		4%																					77%	
Tortanus spp.	4%	21%			4%										17%		21%	4%				25%		4%				
Ascidiaacea (larvae)			13%		17%																						70%	
Oithona spp.		47%	6%		18%								6%											24%				
Pseudocalanus spp.		29%																								71%		
Calanus spp.		17%																						33%		50%		
Copepoda (nauplii)				25%																							75%	
Bryozoa (larvae)	100%																											

Classification Report Matrix
max available learning objects per class

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=7685)	0.95	0.74	0.83
Acartia spp. (n=2290-train=111319)	0.81	0.71	0.76
Oikopleura spp. (n=1773-train=5305)	0.91	0.67	0.77
Podon/Pleopsis spp. (n=607-train=7347)	0.38	0.48	0.42
Fritillaria spp. (n=475-train=6992)	0.47	0.66	0.55
Evadne spp. (n=358-train=11064)	0.33	0.73	0.45
Corycaeidae (n=335-train=1760)	0.48	0.48	0.48
Calanoida (ci-ciüi) (n=150-train=5557)	0.18	0.17	0.17
Paracalanus spp. (n=141-train=1619)	0.43	0.43	0.43
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.50	0.53	0.52
Bivalvia (larvae) (n=96-train=3764)	0.87	0.82	0.84
Polychaeta (larvae) (n=65-train=1577)	0.30	0.28	0.29
Hydrozoa (medusa) (n=55-train=4052)	0.21	0.62	0.31
Centropages spp. (n=50-train=3620)	0.38	0.22	0.28
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)	0.38	0.25	0.30
Ctenophora (larvae) (n=31-train=42)	0.38	0.10	0.15
Decapoda-non brachyura (larvae) (n=26-train=423)	0.50	0.77	0.61
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)	0.00	0.00	0.00
Copepoda (nauplii) (n=4-train=11555)	0.06	0.75	0.12
Bryozoa (larvae) (n=1-train=1142)	0.00	0.00	0.00
macro avg	0.38	0.46	0.38
weighted avg	0.76	0.66	0.70
	precision	recall	f1-score

Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

