

Use of SCN features: Yes
Max learning objects: 5000 objects/class
Strategy N° 5

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

Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max 5000 learning objects per class

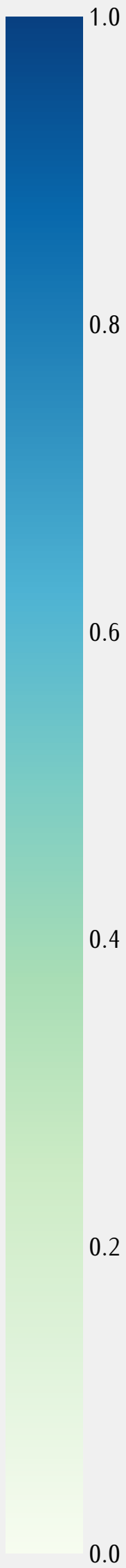
Actual Values

Cirripedia (larvae)	70%	<1%	<1%	12%	<1%	7%		<1%	<1%	2%		<1%	1%	<1%	1%	<1%	1%			<1%	<1%		<1%	<1%		<1%
Acartia spp.	<1%	43%	<1%	<1%	<1%	<1%	14%	4%	11%			<1%	2%		<1%	<1%			<1%		16%	5%				
Oikopleura spp.	<1%	1%	68%	2%	16%	3%	<1%	1%	<1%	<1%		<1%	<1%	<1%	2%			<1%		<1%	<1%	1%	<1%		<1%	<1%
Podon/Pleopsis spp.	10%	<1%	<1%	41%	<1%	28%	2%	2%	7%	2%	<1%	1%	<1%	<1%		<1%	<1%		<1%			<1%	<1%		<1%	<1%
Fritillaria spp.		<1%	25%		58%	1%	1%	1%	<1%			2%		2%					<1%		7%				<1%	
Evadne spp.	4%		<1%	5%		70%	1%	1%	3%	3%	<1%	<1%	8%		<1%	<1%					<1%			<1%		2%
Corycaeidae	<1%	11%	1%	1%	<1%	1%	68%	<1%	4%					2%		<1%		<1%				2%	4%			<1%
Calanoida (ci-cii)	11%	3%	<1%	12%	<1%	15%	13%	16%	6%			1%			4%						15%			2%		<1%
Paracalanus spp.	<1%	5%		1%	<1%	2%	<1%	<1%	55%					<1%								33%				
Gastropoda (larvae/Limacina)	3%	2%		15%		12%				2%	55%	6%	<1%					<1%			4%			<1%		
Bivalvia (larvae)				6%		1%	1%			5%	82%		3%											1%		
Polychaeta (larvae)	18%	3%		11%		14%	2%	2%	2%	3%		29%	2%			3%		5%				6%		2%		
Hydrozoa (medusa)						2%			4%			9%	71%	2%		9%			2%			2%				
Centropages spp.		18%			4%								42%					4%		8%		18%	6%			
Echinodermata (larvae)					2%	2%						2%	86%			2%		5%								
Calycophorae (nectophore)								3%				3%	3%	5%		76%		8%				3%				
Decapoda-brachyura (zoeae)	3%	6%												9%		6%	66%		3%			3%				3%
Ctenophora (larvae)	3%			3%		19%				10%		23%	32%			3%		3%								3%
Decapoda-non brachyura (larvae)							4%					12%		4%			8%		65%				8%			
Ostracoda	4%			8%		36%	4%			4%	32%		4%						8%							
Tortanus spp.	8%													46%		17%	4%		4%		17%		4%			
Ascidiaacea (larvae)			22%		17%																61%					
Oithona spp.		24%	6%		18%		6%							12%								35%				
Pseudocalanus spp.																						100%				
Calanus spp.														17%				33%				33%	17%			
Copepoda (nauplii)								25%		25%														50%		
Euphysa spp. (medusa)																100%										
Bryozoa (larvae)	100%																									

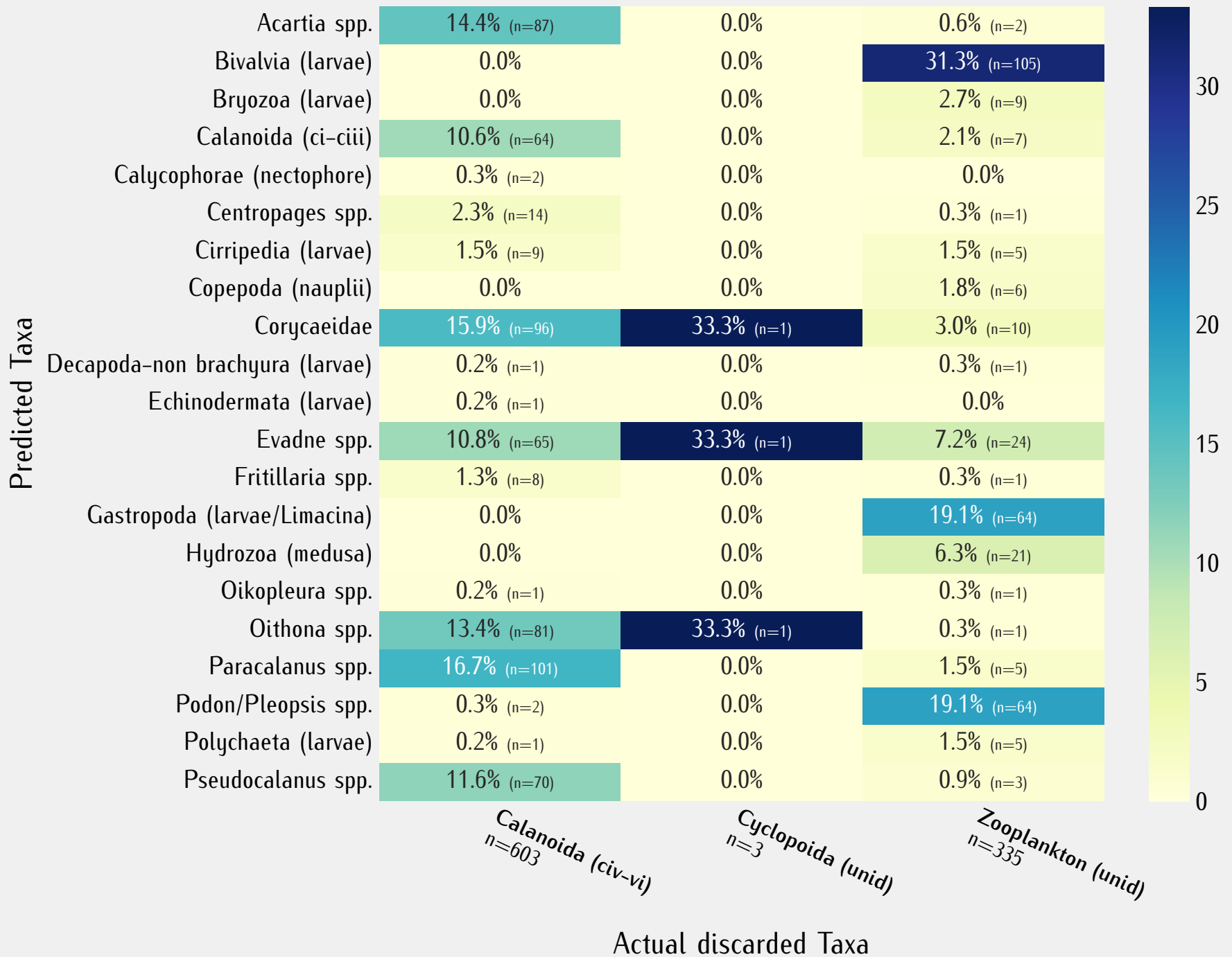
Predicted Values

Predicted Values

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=5000)	0.94	0.70	0.80
Acartia spp. (n=2290-train=5000)	0.89	0.43	0.58
Oikopleura spp. (n=1773-train=5000)	0.89	0.68	0.77
Podon/Pleopsis spp. (n=607-train=5000)	0.33	0.41	0.37
Fritillaria spp. (n=475-train=5000)	0.46	0.58	0.51
Evadne spp. (n=358-train=5000)	0.31	0.70	0.43
Corycaeidae (n=335-train=1760)	0.37	0.68	0.48
Calanoida (ci-cii)	0.13	0.16	0.14
Paracalanus spp. (n=141-train=1619)	0.18	0.55	0.27
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.40	0.55	0.46
Bivalvia (larvae) (n=96-train=3764)	0.81	0.82	0.82
Polychaeta (larvae) (n=65-train=1577)	0.26	0.29	0.28
Hydrozoa (medusa) (n=55-train=4052)	0.21	0.71	0.33
Centropages spp. (n=50-train=3620)	0.18	0.42	0.25
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.24	0.76	0.36
Decapoda-brachyura (zoeae) (n=32-train=628)	0.28	0.66	0.39
Ctenophora (larvae) (n=31-train=42)	0.50	0.03	0.06
Decapoda-non brachyura (larvae) (n=26-train=423)	0.49	0.65	0.56
Ostracoda (n=25-train=25)	0.22	0.08	0.12
Tortanus spp. (n=24-train=203)	0.33	0.17	0.22
Ascidiaacea (larvae) (n=23-train=861)	0.78	0.61	0.68
Oithona spp. (n=17-train=5000)	0.01	0.35	0.02
Pseudocalanus spp. (n=7-train=4845)	0.03	1.00	0.06
Calanus spp. (n=6-train=359)	0.17	0.17	0.17
Copepoda (nauplii) (n=4-train=5000)	0.05	0.50	0.09
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
macro avg	0.34	0.45	0.33
weighted avg	0.76	0.59	0.64
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

