

Use of SCN features: No
Max learning objects: 200 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

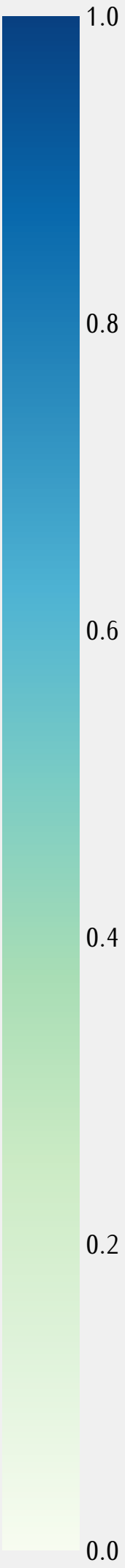
Classification Report Matrix
max 200 learning objects per class

Actual Values

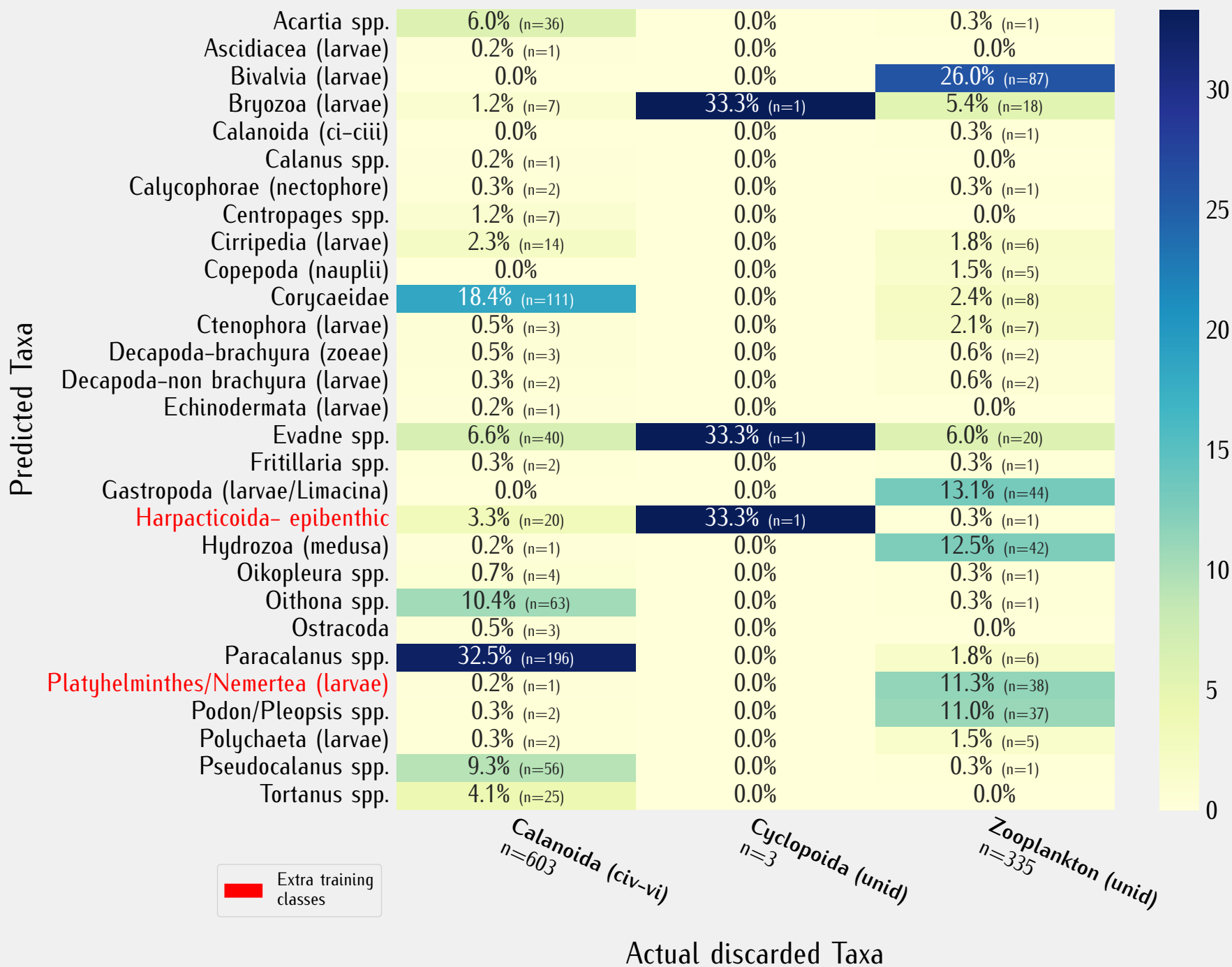
Cirripedia (larvae)	53%	<1%	<1%	11%	<1%	12%	<1%	<1%	<1%	2%	<1%	<1%	1%	<1%	3%	1%	3%	<1%	<1%	2%	4%		2%	<1%		<1%		2%	<1%	<1%
	Acartia spp.	<1%	19%	<1%	<1%	<1%	22%	<1%	26%					1%		<1%	<1%			<1%	5%	<1%	13%	8%					3%	
Oikopleura spp.	<1%	1%	59%	<1%	21%	2%	<1%	<1%	1%			<1%	<1%	<1%	1%	3%	<1%	<1%	<1%	<1%	<1%	1%	1%	<1%		<1%		<1%	<1%	2%
Podon/Pleopsis spp.	12%		<1%	27%		21%	1%	<1%	16%	1%		3%	1%	<1%	<1%	<1%	1%	3%	<1%	<1%	<1%		<1%	<1%		<1%		7%	1%	1%
Fritillaria spp.		1%	22%		52%	1%	3%		<1%			2%		4%							<1%	2%	9%			<1%		<1%	1%	<1%
Evadne spp.	4%		<1%	4%		45%	<1%	<1%	7%	1%	<1%	<1%	16%		2%	<1%	<1%	5%		2%			<1%			<1%		4%	<1%	5%
Corycaeidae	<1%	5%	2%	2%	<1%	<1%	64%		9%			<1%		1%		<1%			<1%		2%		1%	4%				<1%	4%	1%
Calanoida (ci-ciii)	13%	3%		11%		14%	10%	3%	11%			3%			6%							9%			<1%		9%	7%	1%	
Paracalanus spp.		3%	<1%				<1%		59%			<1%					<1%	<1%		2%			33%							
Gastropoda (larvae/Limacina)	2%			14%		11%			3%	45%	5%	2%	3%					<1%				3%			2%		6%		2%	
	Bivalvia (larvae)			3%			1%			5%	65%		12%							1%							2%		10%	
Polychaeta (larvae)	14%	5%		8%		9%	3%	2%	8%	2%		14%	3%		2%		2%	6%	5%			3%	12%		2%		2%		2%	
Hydrozoa (medusa)						2%			4%				18%	2%		9%	2%	56%	2%							2%			4%	
Centropages spp.		8%				2%		2%		6%				20%		2%	4%		6%		22%			18%	10%					
Echinodermata (larvae)					2%	5%			7%			2%	71%			2%		7%	2%											
Calycophorae (nectophore)					3%									5%		65%		5%	14%				5%	3%						
Decapoda-brachyura (zoeae)									3%						16%		3%	31%	3%	9%		12%		16%				6%		
Ctenophora (larvae)	3%								3%				23%			3%		52%									6%		10%	
Decapoda-non brachyura (larvae)						4%								4%				8%	54%					27%					4%	
Ostracoda											16%									56%									28%	
Tortanus spp.		4%												17%		12%	8%				54%	4%								
Ascidacea (larvae)			9%		13%																	78%								
Oithona spp.		35%			12%		6%						6%					6%					35%							
Pseudocalanus spp.																14%		14%						71%						
Calanus spp.													17%						67%					17%						
Copepoda (nauplii)				25%					25%																	50%				
Euphysa spp. (medusa)																67%											33%			
Bryozoa (larvae)																												100%		
	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 (larvae)	Decapoda-brachyura (larvae)	Ctenophora (nectophore)	Decapoda-non brachyura (larvae)	Ostracoda	Tortanus spp.	Ascidacea (larvae)	Oithona spp.	Pseudocalanus spp.	Calanus spp.	Copepoda (nauplii)	Euphysa spp. (medusa)	Bryozoa (larvae)	Haracticoida (larvae)	Platyhelminthes (larvae)

Extra
training
classes

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=200)	0.92	0.53	0.67
Acartia spp. (n=2290-train=200)	0.85	0.19	0.30
Oikopleura spp. (n=1773-train=200)	0.88	0.59	0.71
Podon/Pleopsis spp. (n=607-train=200)	0.27	0.27	0.27
Fritillaria spp. (n=475-train=200)	0.38	0.52	0.44
Evadne spp. (n=358-train=200)	0.21	0.45	0.28
Corycaeidae (n=335-train=200)	0.28	0.64	0.39
Calanoida (ci-ciüi) (n=150-train=200)	0.17	0.03	0.05
Paracalanus spp. (n=141-train=200)	0.09	0.59	0.16
Gastropoda (larvae/Limacina) (n=126-train=200)	0.43	0.45	0.44
Bivalvia (larvae) (n=96-train=200)	0.83	0.65	0.73
Polychaeta (larvae) (n=65-train=200)	0.16	0.14	0.15
Hydrozoa (medusa) (n=55-train=200)	0.05	0.18	0.08
Centropages spp. (n=50-train=200)	0.16	0.20	0.18
Echinodermata (larvae) (n=42-train=200)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=200)	0.16	0.65	0.26
Decapoda-brachyura (zoeae) (n=32-train=200)	0.08	0.31	0.13
Ctenophora (larvae) (n=31-train=42)	0.13	0.52	0.21
Decapoda-non brachyura (larvae) (n=26-train=200)	0.29	0.54	0.38
Ostracoda (n=25-train=25)	0.18	0.56	0.27
Tortanus spp. (n=24-train=200)	0.04	0.54	0.08
Ascidiaacea (larvae) (n=23-train=200)	0.37	0.78	0.50
Oithona spp. (n=17-train=200)	0.01	0.35	0.02
Pseudocalanus spp. (n=7-train=200)	0.02	0.71	0.04
Calanus spp. (n=6-train=200)	0.00	0.00	0.00
Copepoda (nauplii) (n=4-train=200)	0.06	0.50	0.10
Euphysa spp. (medusa) (n=3-train=3)	0.50	0.33	0.40
Bryozoa (larvae) (n=1-train=200)	0.01	1.00	0.01
Harpacticoida- epibenthic (n=0-train=200)	-	-	-
Platyhelminthes/Nemertea (larvae) (n=0-train=183)	-	-	-
macro avg (corr)	0.27	0.44	0.26
weighted avg	0.72	0.43	0.49
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

