

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 2

Gulf Selected Samples prediction using Gulf training set,
Learning with all classes present in the selected samples, with extra training categories,
No Calanoida, Cyclopoida, Zooplankton classes in learning set

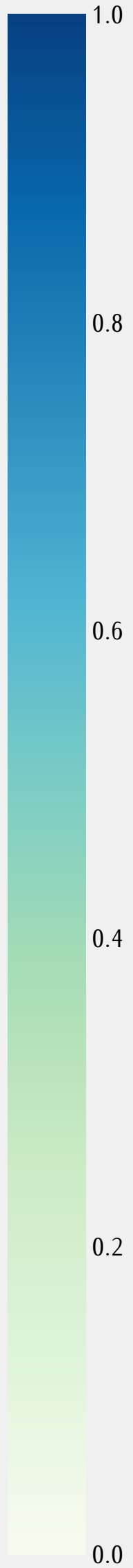
Confusion Matrix - In percent of Actual Value

Classification Report Matrix
max 200 learning objects per class

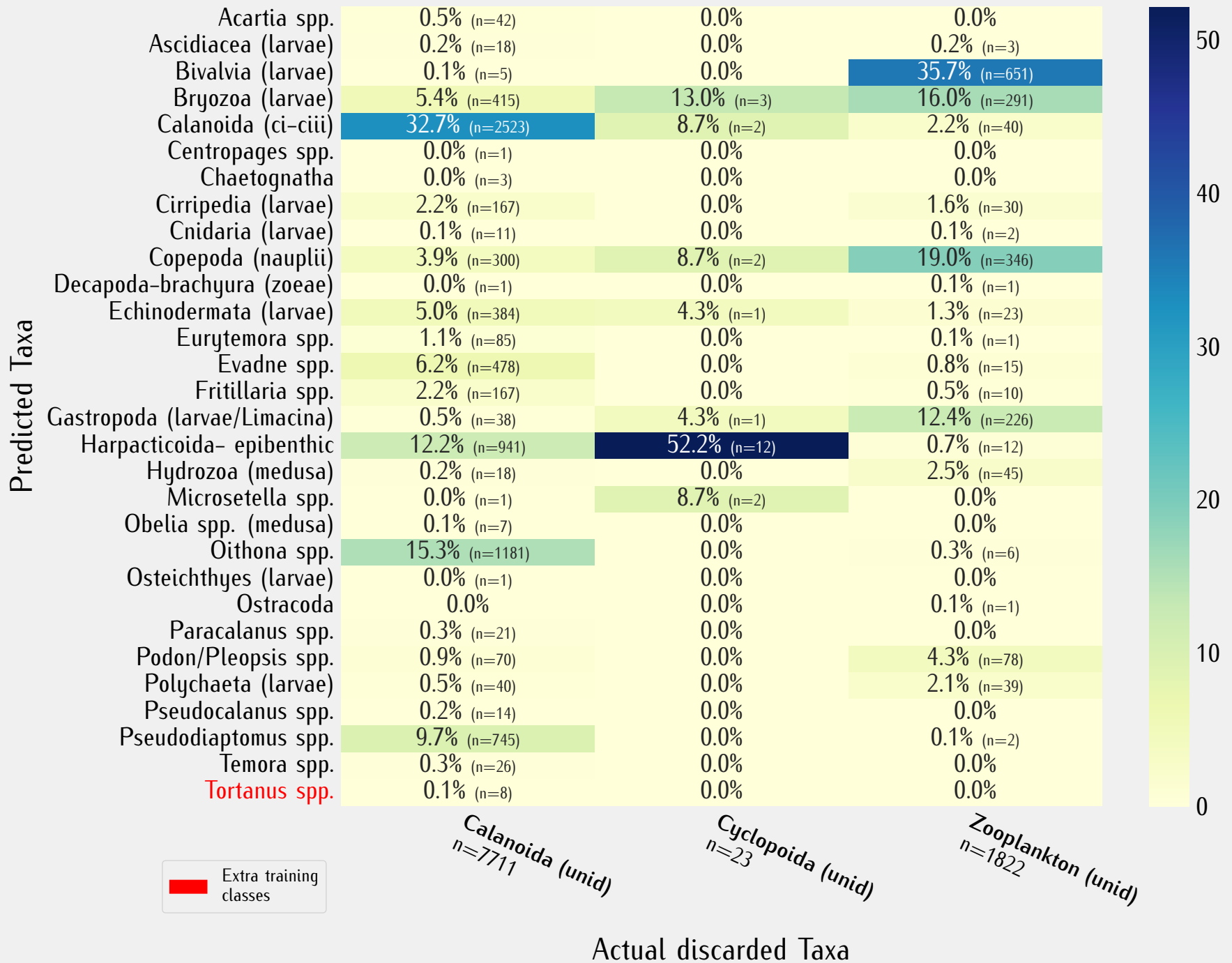
Actual Values

Acartia spp.	18%		<1%	<1%	34%	5%	4%	<1%	<1%	2%	<1%		<1%	5%	1%	<1%	<1%	3%	<1%	<1%	4%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	3%		17%	<1%		2%
Bivalvia (larvae)		91%	1%	<1%	<1%	<1%	<1%	1%	5%		<1%	<1%	<1%	<1%		<1%		<1%	<1%			<1%	<1%											
Copepoda (nauplii)		4%	84%	<1%	<1%	<1%			<1%		4%	3%		<1%		3%			1%				<1%											
Podon/Pleopsis spp.		7%	15%	39%	<1%	<1%	<1%	2%	17%	<1%	10%	4%	<1%	<1%		<1%	<1%	<1%	4%			<1%	<1%				<1%		<1%		<1%		<1%	
Oithona spp.	<1%		<1%	<1%	71%	6%	5%			<1%	<1%	<1%	<1%	12%		2%		1%	<1%	<1%	<1%			1%	<1%				<1%	<1%			<1%	
Calanoida (ci-ciii)			3%	1%	10%	38%	9%	<1%	<1%		6%	<1%		14%		4%		9%	3%			<1%		1%										
Pseudodiaptomus spp.	<1%		1%	<1%	18%	17%	30%		<1%	<1%	1%	<1%		21%	<1%	5%		2%	<1%		<1%	<1%						<1%		2%			<1%	
Hydrozoa (medusa)		2%		3%	1%		69%	6%	<1%	3%			<1%		<1%	4%	6%	1%		<1%		<1%	<1%					<1%	<1%	<1%			<1%	
Gastropoda (larvae/Limacina)		18%	9%	7%		<1%		2%	53%	<1%	5%	3%		<1%				<1%	1%		<1%	<1%						<1%						
Temora spp.	<1%		1%	<1%	3%	9%	11%			21%	4%			6%	6%	4%		8%	2%		8%		<1%				2%	<1%		6%	5%	2%		
Bryozoa (larvae)		2%	23%	10%	<1%	<1%		<1%	7%		51%	<1%		<1%				1%			<1%		<1%						<1%					
Polychaeta (larvae)	<1%	<1%	17%	4%	<1%	4%	1%		<1%		1%	45%		2%		6%	<1%	6%	5%	<1%		1%	2%			<1%	<1%							
Ascidacea (larvae)	<1%				2%		<1%						91%	2%						<1%		<1%	<1%			2%				<1%				
Harpacticoida- epibenthic	<1%		4%		14%	13%	4%			<1%	<1%			48%		3%		<1%	2%		3%		<1%	<1%					<1%	2%	2%			
Centropages spp.	20%				36%		5%			9%				2%	14%						5%								2%		5%		2%	
Echinodermata (larvae)			5%	5%	3%	16%	3%									27%		16%	22%														3%	
Obelia spp. (medusa)					19%	5%		10%									19%	19%	19%										5%		5%			
Evadne spp.							6%			6%	6%					6%		62%	6%											6%				
Cirripedia (larvae)			31%	6%								6%				19%			38%															
Chaetognatha	8%				8%							8%									38%					38%								
Pseudocalanus spp.	29%									14%											43%									14%				
Cnidaria (larvae)			29%			14%													29%			29%												
Decapoda-non brachyura (larvae)																							75%									25%		
Fritillaria spp.					33%																				67%									
Oikopleura spp.																									100%									
Monstrillidae																											100%							
Decapoda-brachyura (zoeae)																																100%		
Osteichthyes (larvae)																																	100%	
Ostracoda										100%																								
Paracalanus spp.																															100%			
Microsetella spp.										100%																								
Eurytemora spp.																																		
Predicted Values																																		
Acartia spp. Bivalvia (larvae) Copepoda (nauplii) Podon/Pleopsis spp. Oithona spp. Calanoida (ci-ciii) Pseudodiaptomus spp. Hydrozoa (medusa) Gastropoda (larvae/Limacina) Temora spp. Bryozoa (larvae) Polychaeta (larvae) Ascidacea (larvae) Harpacticoida- epibenthic Centropages spp. Echinodermata (larvae) Obelia spp. (medusa) Evadne spp. Cirripedia (larvae) Chaetognatha Pseudocalanus spp. Cnidaria (larvae) Decapoda-non brachyura (larvae) Fritillaria spp. Oikopleura spp. Monstrillidae Decapoda-brachyura (zoeae) Osteichthyes (larvae) Ostracoda Paracalanus spp. Microsetella spp. Eurytemora spp. Calanus spp. Labidocera spp. Tortanus spp.																																		
Extra training classes																																		

			precision	recall	f1-score
Acartia spp. (n=18062-train=200)			0.99	0.18	0.30
Bivalvia (larvae) (n=7955-train=200)			0.94	0.91	0.93
Copepoda (nauplii) (n=2753-train=200)			0.75	0.84	0.79
Podon/Pleopsis spp. (n=2715-train=200)			0.88	0.39	0.54
Oithona spp. (n=2572-train=200)			0.22	0.71	0.33
Calanoida (ci-ciii) (n=1348-train=200)			0.28	0.38	0.32
Pseudodiaptomus spp. (n=1059-train=200)			0.24	0.30	0.27
Hydrozoa (medusa) (n=671-train=200)			0.73	0.69	0.71
Gastropoda (larvae/Limacina) (n=629-train=200)			0.27	0.53	0.35
	Temora spp. (n=308-train=200)		0.17	0.21	0.19
	Bryozoa (larvae) (n=247-train=200)		0.17	0.51	0.25
Polychaeta (larvae) (n=237-train=200)			0.33	0.45	0.38
Ascidacea (larvae) (n=194-train=200)			0.65	0.91	0.76
Harpacticoida- epibenthic (n=108-train=200)			0.03	0.48	0.06
	Centropages spp. (n=44-train=200)		0.02	0.14	0.04
	Echinodermata (larvae) (n=37-train=118)		0.03	0.27	0.05
Obelia spp. (medusa) (n=21-train=200)			0.04	0.19	0.07
Evadne spp. (n=16-train=200)			0.01	0.62	0.03
Cirripedia (larvae) (n=16-train=200)			0.02	0.38	0.04
Chaetognatha (n=13-train=18)			0.31	0.38	0.34
Pseudocalanus spp. (n=7-train=200)			0.00	0.43	0.01
Cnidaria (larvae) (n=7-train=20)			0.11	0.29	0.15
Decapoda-non brachyura (larvae) (n=4-train=197)			0.06	0.75	0.11
	Fritillaria spp. (n=3-train=200)		0.01	0.67	0.02
	Oikopleura spp. (n=2-train=37)		0.00	0.00	0.00
Monstrillidae (n=2-train=27)			0.22	1.00	0.36
Decapoda-brachyura (zoeae) (n=1-train=200)			0.00	0.00	0.00
	Osteichthyes (larvae) (n=1-train=43)		0.00	0.00	0.00
	Ostracoda (n=1-train=1)		0.00	0.00	0.00
Paracalanus spp. (n=1-train=82)			0.00	0.00	0.00
Microsetella spp. (n=1-train=4)			0.00	0.00	0.00
Eurytemora spp. (n=1-train=200)			0.00	0.00	0.00
Calanus spp. (n=0-train=109)			-	-	-
Labidocera spp. (n=0-train=200)			-	-	-
Tortanus spp. (n=0-train=111)			-	-	-
macro avg (corr)			0.23	0.39	0.23
weighted avg			0.82	0.46	0.49
			precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

