

Use of SCN features: Yes
Max learning objects: 20000 objects/class
Strategy N° 6

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

Confusion Matrix - In percent of Actual Value

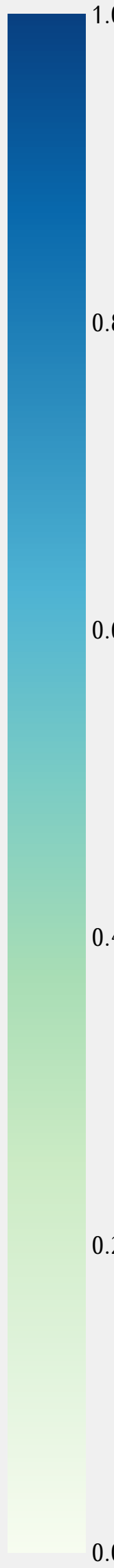
Classification Report Matrix
max 20000 learning objects per class

Actual Values

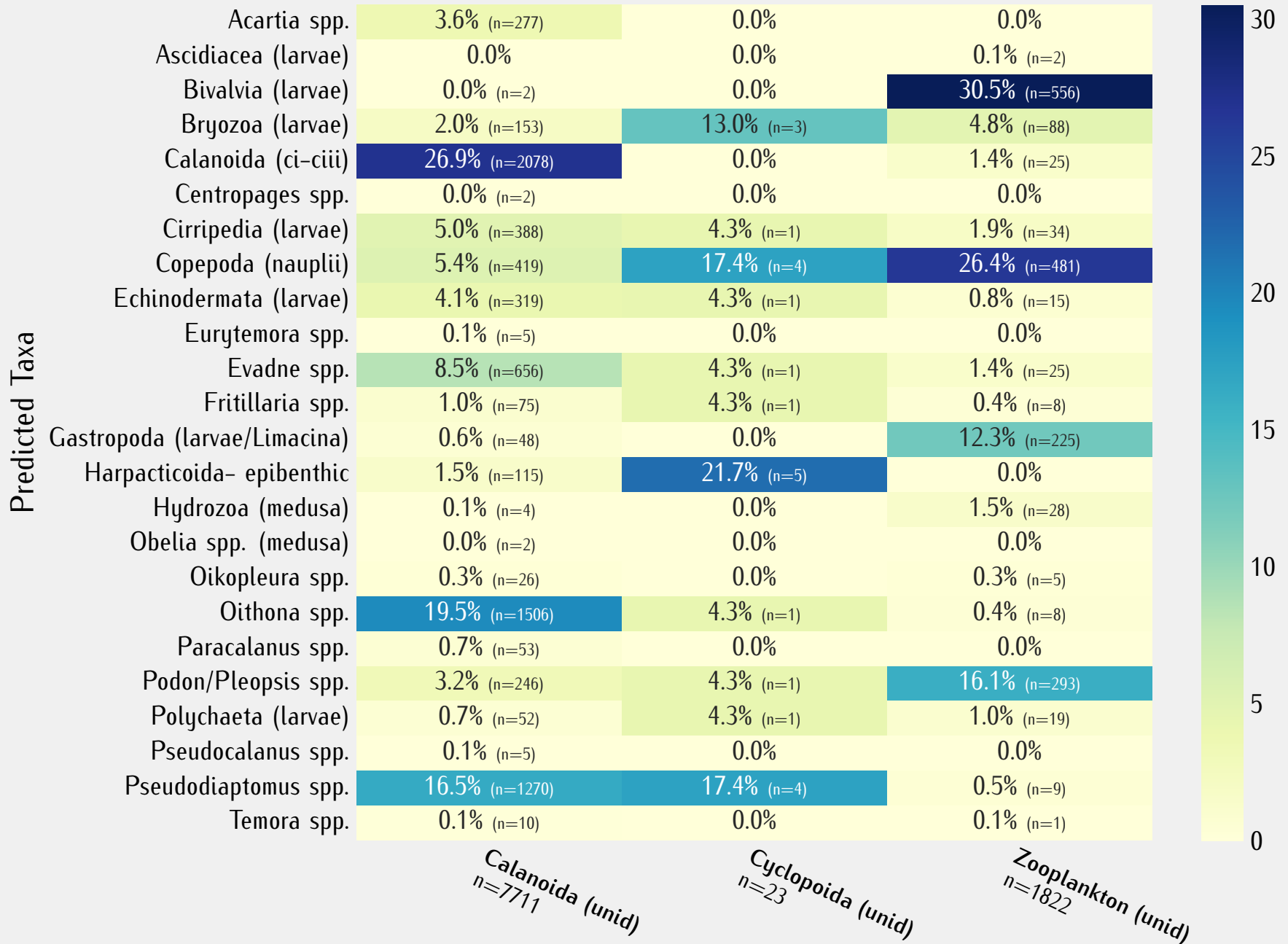
Acartia spp.	50%		<1%	<1%	27%	7%	3%	<1%		1%	<1%	<1%	<1%	<1%	1%	<1%	<1%	2%	<1%		<1%		<1%	<1%	<1%			4%		1%			<1%
Bivalvia (larvae)		93%	1%	<1%	<1%	<1%	<1%	3%		<1%	<1%	<1%	<1%		<1%		<1%	<1%					<1%	<1%									
Copepoda (nauplii)		1%	94%	1%	<1%	<1%	<1%	<1%		<1%	<1%				1%		<1%	1%					<1%	<1%									
Podon/Pleopsis spp.		3%	14%	69%	<1%	<1%	<1%	1%	8%	<1%	2%	<1%		<1%			<1%	1%				<1%		<1%	<1%			<1%		<1%			
Oithona spp.	<1%		<1%	<1%	82%	4%	5%				<1%			2%		2%		1%	1%				<1%	<1%									
Calanoida (ci-ciii)	1%		4%	4%	16%	32%	13%		<1%		2%	<1%		3%		3%		13%	6%				1%	<1%				<1%					
Pseudodiaptomus spp.	2%		2%	<1%	20%	5%	57%		<1%		<1%	<1%		<1%	<1%		3%	4%		<1%			<1%					2%		<1%			
Hydrozoa (medusa)	1%	2%	<1%	6%	1%	<1%		69%	5%	<1%	<1%	<1%				<1%	<1%	8%	<1%		<1%		1%				<1%	<1%					
Gastropoda (larvae/Limacina)	<1%	13%	9%	12%	<1%	<1%		1%	63%		<1%	<1%					<1%	<1%															
Temora spp.	4%		3%	1%	4%	6%	17%			28%		2%		<1%	3%			12%	5%		9%							5%		1%			
Bryozoa (larvae)		<1%	28%	23%	<1%	<1%		9%		36%	2%						<1%	<1%						<1%									
Polychaeta (larvae)	<1%		24%	8%	<1%	<1%	3%		<1%	<1%	<1%	38%			3%		5%	14%				<1%	<1%	<1%	<1%	<1%							
Ascidacea (larvae)	<1%				4%		<1%				2%	92%										<1%	<1%	<1%									
Harpacticoida- epibenthic	2%		5%		38%	9%	13%			<1%	2%	<1%		18%		2%		2%	<1%		2%		3%					2%		<1%			
Centropages spp.	30%				36%	9%			7%						14%													2%		2%			
Echinodermata (larvae)			8%	11%			3%									30%		19%	30%														
Obelia spp. (medusa)				5%	14%		5%	5%									29%	29%	10%								5%						
Evadne spp.						6%												81%	12%														
Cirripedia (larvae)			44%						6%							6%			44%														
Chaetognatha					8%								8%										15%	69%									
Pseudocalanus spp.	29%						14%			29%											29%												
Cnidaria (larvae)			29%	14%		14%													29%			14%											
Decapoda-non brachyura (larvae)																							100%										
Fritillaria spp.																								67%	33%								
Oikopleura spp.																								100%									
Monstrillidae														50%											50%								
Decapoda-brachyura (zoeae)																																100%	
Osteichthyes (larvae)																									100%								
Ostracoda											100%																						
Paracalanus spp.																															100%		
Microsetella spp.																		100%															
Eurytemora spp.																					100%												
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																																	

Extra training classes

Classification Report Matrix			
max 20000 learning objects per class			
	precision	recall	f1-score
Acartia spp. (n=18062-train=20000)	0.99	0.50	0.66
Bivalvia (larvae) (n=7955-train=3764)	0.97	0.93	0.95
Copepoda (nauplii) (n=2753-train=11555)	0.76	0.94	0.84
Podon/Pleopsis spp. (n=2715-train=7347)	0.82	0.69	0.75
Oithona spp. (n=2572-train=5881)	0.28	0.82	0.42
Calanoida (ci-ciii) (n=1348-train=5557)	0.22	0.32	0.26
Pseudodiaptomus spp. (n=1059-train=2113)	0.38	0.57	0.46
Hydrozoa (medusa) (n=671-train=4052)	0.88	0.69	0.77
Gastropoda (larvae/Limacina) (n=629-train=3272)	0.42	0.63	0.50
Temora spp. (n=308-train=7347)	0.29	0.28	0.28
Bryozoa (larvae) (n=247-train=1142)	0.39	0.36	0.37
Polychaeta (larvae) (n=237-train=1577)	0.57	0.38	0.45
Ascidacea (larvae) (n=194-train=861)	0.97	0.92	0.94
Harpacticoida- epibenthic (n=108-train=555)	0.10	0.18	0.13
Centropages spp. (n=44-train=3620)	0.03	0.14	0.05
Echinodermata (larvae) (n=37-train=3043)	0.04	0.30	0.07
Obelia spp. (medusa) (n=21-train=1003)	0.32	0.29	0.30
Evadne spp. (n=16-train=11064)	0.02	0.81	0.03
Cirripedia (larvae) (n=16-train=7685)	0.01	0.44	0.03
Chaetognatha (n=13-train=89)	0.00	0.00	0.00
Pseudocalanus spp. (n=7-train=4845)	0.02	0.29	0.03
Cnidaria (larvae) (n=7-train=25)	1.00	0.14	0.25
Decapoda-non brachyura (larvae) (n=4-train=423)	0.50	1.00	0.67
Fritillaria spp. (n=3-train=6992)	0.01	0.67	0.03
Oikopleura spp. (n=2-train=5305)	0.00	0.00	0.00
Monstrillidae (n=2-train=27)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=628)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00
Ostracoda (n=1-train=25)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=1619)	0.00	0.00	0.00
Microsetella spp. (n=1-train=4)	0.00	0.00	0.00
Eurytemora spp. (n=1-train=1818)	0.00	0.00	0.00
Calanus spp. (n=0-train=359)	-	-	-
Labidocera spp. (n=0-train=493)	-	-	-
Tortanus spp. (n=0-train=203)	-	-	-
macro avg (corr)	0.31	0.38	0.29
weighted avg	0.84	0.65	0.69
precision recall f1-score			



Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

