

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 5

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

Confusion Matrix – In percent of Actual Value

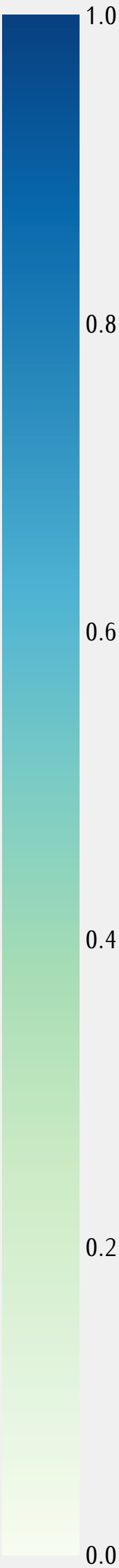
Classification Report Matrix
max 200 learning objects per class

Actual Values

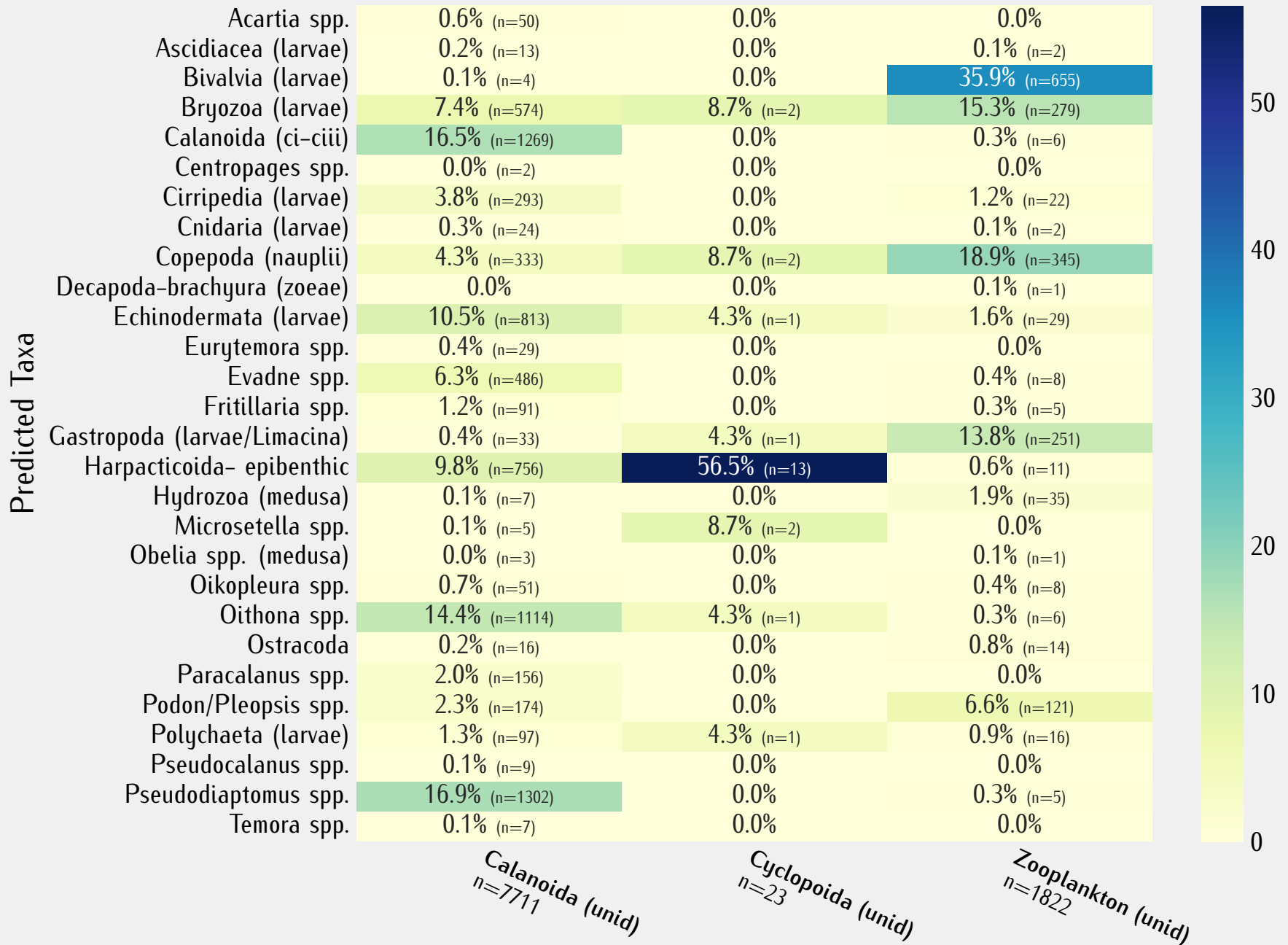
	Acartia spp.	18%		<1%	<1%	36%	5%	4%	<1%		<1%	<1%	<1%	4%	2%	1%	<1%	2%	<1%		<1%	<1%	<1%	<1%	<1%	<1%	<1%	12%		12%			
	Bivalvia (larvae)		91%	<1%	<1%	<1%	<1%	<1%	6%		<1%	<1%	<1%	<1%		<1%		<1%	<1%		<1%		<1%	<1%			<1%		<1%				
	Copepoda (nauplii)		4%	85%	<1%	<1%	<1%	<1%		<1%		5%	<1%		<1%	4%			<1%		<1%			<1%									
	Podon/Pleopsis spp.		7%	18%	39%	<1%	<1%	<1%	2%	18%	<1%	11%	<1%		<1%	<1%	<1%	<1%			<1%	<1%		<1%		<1%		<1%	<1%	<1%			
	Oithona spp.	<1%		<1%	<1%	71%	2%	7%				<1%	<1%	<1%	11%		4%		2%	<1%			<1%	<1%				<1%	<1%	<1%			
	Calanoida (ci–cii)			3%	3%	10%	22%	11%		<1%		9%	3%		13%		9%		10%	5%			<1%		2%	<1%			<1%	<1%			
	Pseudodiaptomus spp.	<1%		2%	<1%	18%	2%	48%		<1%		3%	1%		13%	<1%	3%		3%	3%		<1%	<1%					2%		1%			
	Hydrozoa (medusa)	<1%	2%		5%	1%		<1%	68%	5%	<1%	3%	<1%		<1%		<1%	3%	6%	<1%		<1%			<1%	<1%		<1%	2%	<1%			
Gastropoda (larvae/Limacina)			16%	10%	8%			<1%	3%	54%		4%	1%		<1%				<1%	<1%			<1%				<1%	<1%	<1%	<1%			
	Temora spp.	<1%		2%	2%	4%	<1%	19%			18%	4%	2%		3%	5%	2%		7%	5%		13%	<1%				<1%		10%	3%			
	Bryozoa (larvae)		3%	23%	11%	<1%			<1%	7%		52%	<1%						<1%		<1%		<1%					<1%	<1%				
	Polychaeta (larvae)	<1%	<1%	30%	5%	1%		2%		<1%	<1%	5%	19%		1%		13%	<1%	5%	13%				<1%	<1%			<1%	<1%				
	Ascidacea (larvae)	<1%				3%		<1%				<1%	<1%	90%	1%								<1%	<1%	1%			2%					
	Harpacticoida– epibenthic			5%		18%	5%	6%				2%	<1%		45%		5%		4%	<1%		2%			<1%				3%	2%	2%		
	Centropages spp.	20%				43%					5%				2%	16%				2%									9%		2%		
	Echinodermata (larvae)			5%	11%	3%		8%								32%			19%	19%									3%				
	Obelia spp. (medusa)				5%	14%		10%							5%		5%	24%	19%	14%									5%				
	Evadne spp.					6%			6%										69%	12%									6%				
	Cirripedia (larvae)			44%						6%		6%	6%			12%				12%									12%				
	Chaetognatha					8%								8%							23%				15%	38%		8%					
	Pseudocalanus spp.	29%									29%											14%								14%	14%		
	Cnidaria (larvae)			29%	29%											14%						29%											
Decapoda–non brachyura (larvae)																							75%					25%					
	Fritillaria spp.																								100%								
	Oikopleura spp.																								100%								
	Monstrillidae																									100%							
Decapoda–brachyura (zoeae)																								100%									
	Osteichthyes (larvae)																					100%											
	Ostracoda								100%																								
	Paracalanus spp.																												100%				
	Microsetella spp.																	100%															
	Eurytemora spp.																				100%												
		Acartia spp.	Bivalvia (larvae)	Copepoda (nauplii)	Podon/Pleopsis spp.	Oithona spp.	Calanoida (ci–cii)	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.

Predicted Values

	precision	recall	f1-score
Acartia spp. (n=18062–train=200)	0.99	0.18	0.31
Bivalvia (larvae) (n=7955–train=200)	0.94	0.91	0.92
Copepoda (nauplii) (n=2753–train=200)	0.73	0.85	0.78
Podon/Pleopsis spp. (n=2715–train=200)	0.84	0.39	0.53
Oithona spp. (n=2572–train=200)	0.21	0.71	0.32
Calanoida (ci-ciii) (n=1348–train=200)	0.22	0.22	0.22
Pseudodiaptomus spp. (n=1059–train=200)	0.32	0.48	0.38
Hydrozoa (medusa) (n=671–train=200)	0.75	0.68	0.71
Gastropoda (larvae/Limacina) (n=629–train=200)	0.25	0.54	0.34
Temora spp. (n=308–train=200)	0.29	0.18	0.22
Bryozoa (larvae) (n=247–train=200)	0.14	0.52	0.22
Polychaeta (larvae) (n=237–train=200)	0.29	0.19	0.23
Ascidacea (larvae) (n=194–train=200)	0.85	0.90	0.87
Harpacticoida- epibenthic (n=108–train=200)	0.04	0.45	0.07
Centropages spp. (n=44–train=200)	0.02	0.16	0.04
Echinodermata (larvae) (n=37–train=200)	0.02	0.32	0.04
Obelia spp. (medusa) (n=21–train=200)	0.07	0.24	0.11
Evadne spp. (n=16–train=200)	0.02	0.69	0.03
Cirripedia (larvae) (n=16–train=200)	0.01	0.12	0.01
Chaetognatha (n=13–train=89)	0.75	0.23	0.35
Pseudocalanus spp. (n=7–train=200)	0.00	0.14	0.01
Cnidaria (larvae) (n=7–train=25)	0.09	0.29	0.13
Decapoda-non brachyura (larvae) (n=4–train=200)	0.10	0.75	0.18
Fritillaria spp. (n=3–train=200)	0.02	1.00	0.04
Oikopleura spp. (n=2–train=200)	0.00	0.00	0.00
Monstrillidae (n=2–train=27)	0.18	1.00	0.31
Decapoda-brachyura (zoeae) (n=1–train=200)	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=200)	0.00	1.00	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
macro avg	0.25	0.41	0.23
weighted avg	0.82	0.46	0.49
	precision	recall	f1-score



Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

