

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 8

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

Confusion Matrix - In percent of Actual Value

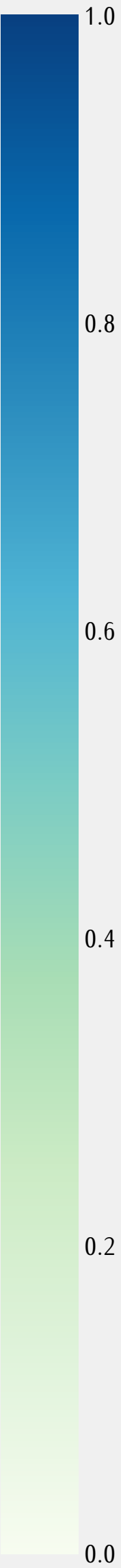
Classification Report Matrix
max 200 learning objects per class

Actual Values

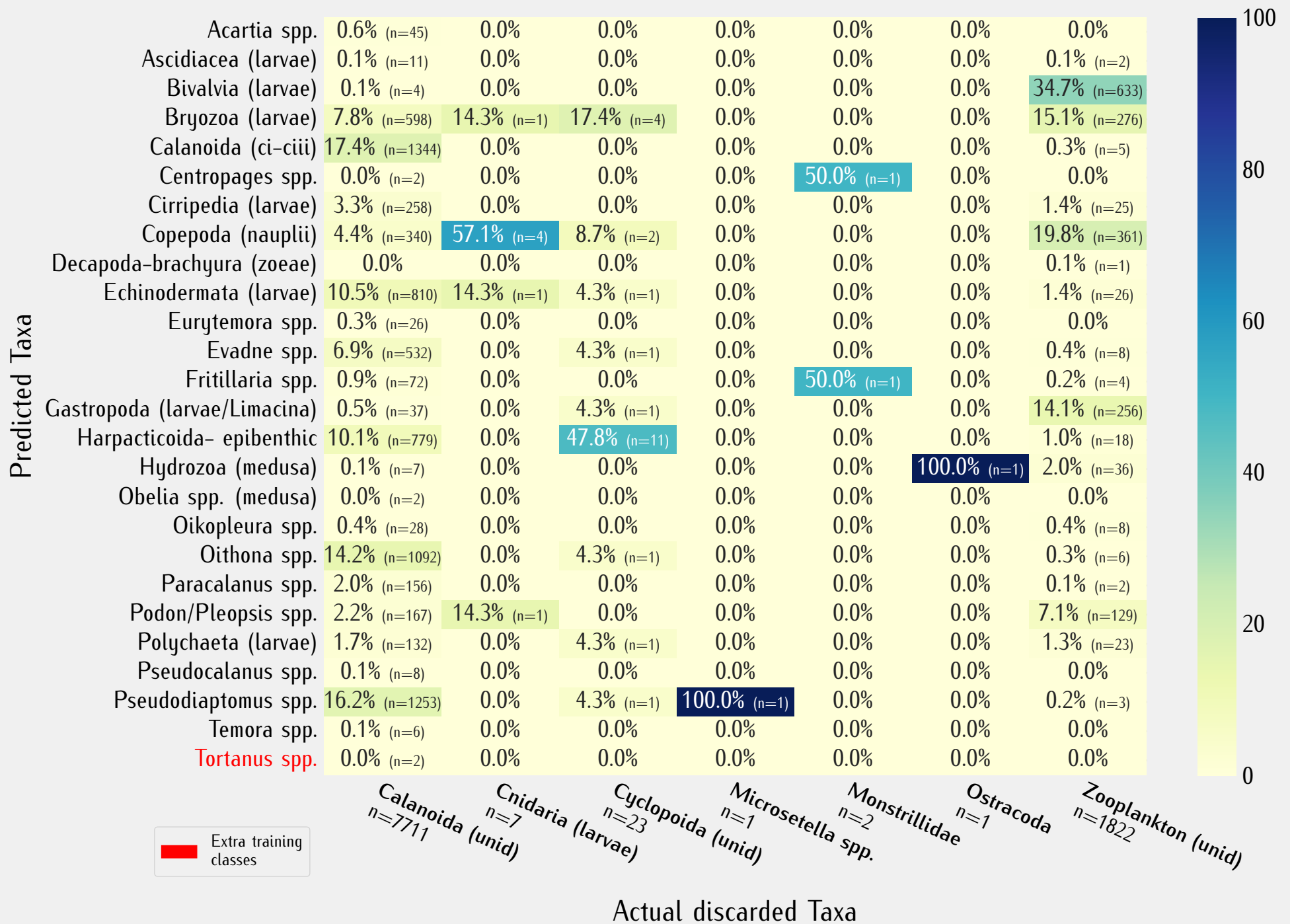
Acartia spp.	17%		<1%	<1%	36%	5%	4%	<1%		<1%	<1%	<1%	<1%	4%	2%	1%	<1%	2%	<1%		<1%	<1%	<1%	12%		<1%	12%			1%
Bivalvia (larvae)		90%	1%	<1%	<1%	<1%	<1%	6%		<1%	<1%	<1%	<1%		<1%		<1%	<1%			<1%	<1%								
Copepoda (nauplii)		4%	85%	<1%		<1%	<1%		<1%		5%	<1%		<1%		4%			<1%			<1%	<1%							
Podon/Pleopsis spp.		7%	18%	41%	<1%	<1%	<1%	2%	18%	<1%	10%	<1%			<1%	<1%	1%	1%			<1%		<1%	<1%		<1%	<1%			
Oithona spp.	<1%		<1%	<1%	71%	3%	7%				<1%			11%	4%		2%	<1%			<1%	<1%	<1%			<1%				
Calanoida (ci-ciii)			3%	2%	9%	23%	12%	<1%	<1%		9%	3%	<1%	14%		9%		10%	4%			1%	<1%	<1%						
Pseudodiaptomus spp.	<1%		1%	<1%	19%	2%	47%		<1%		2%	1%		12%	<1%	3%		3%	3%		<1%			2%			1%		<1%	
Hydrozoa (medusa)	<1%	2%	<1%	4%	1%		<1%	69%	5%		3%	1%		<1%		<1%	3%	6%	<1%		<1%		<1%	3%		<1%			<1%	
Gastropoda (larvae/Limacina)		16%	11%	9%			<1%	2%	54%		4%	2%		<1%				<1%	<1%					<1%						
Temora spp.	<1%		2%	<1%	3%	1%	19%			18%	4%	2%		3%	5%	2%		9%	4%		12%			10%		<1%	3%		<1%	
Bryozoa (larvae)		2%	24%	11%	<1%				9%		51%	1%							<1%			<1%	<1%							
Polychaeta (larvae)	<1%	<1%	31%	5%	2%		1%		<1%	<1%	5%	18%		2%		11%	<1%	5%	14%		<1%		<1%		<1%	<1%				
Ascidacea (larvae)	<1%				3%		<1%				<1%	<1%	91%	1%							1%	<1%	<1%		2%					
Harpacticoida- epibenthic			4%		17%	6%	6%				2%	<1%		49%		5%		4%	<1%		2%			2%			3%			
Centropages spp.	18%				43%					2%				2%	18%				2%					9%			2%		2%	
Echinodermata (larvae)			5%	11%	3%		3%									32%		16%	27%										3%	
Obelia spp. (medusa)				5%	19%			10%						5%			24%	19%	14%					5%						
Evadne spp.					6%			6%										69%	12%					6%						
Cirripedia (larvae)			44%	6%					6%			19%				12%			12%											
Chaetognatha					8%							8%									23%			15%	38%		8%			
Pseudocalanus spp.	29%									14%												29%			14%			14%		
Decapoda-non brachyura (larvae)																							75%			25%				
Fritillaria spp.																								100%						
Oikopleura spp.																								100%						
Paracalanus spp.																									100%					
Osteichthyes (larvae)																						100%								
Decapoda-brachyura (zoeae)																												100%		
Eurytemora spp.																						100%								
Calanus spp.																														
Labidocera spp.																														
Tortanus spp.																														

Extra
training
classes

	precision	recall	f1-score
Acartia spp. (n=18062-train=200)	0.99	0.17	0.29
Bivalvia (larvae) (n=7955-train=200)	0.95	0.90	0.92
Copepoda (nauplii) (n=2753-train=200)	0.72	0.85	0.78
Podon/Pleopsis spp. (n=2715-train=200)	0.84	0.41	0.55
Oithona spp. (n=2572-train=200)	0.21	0.71	0.32
Calanoida (ci-ciii) (n=1348-train=200)	0.22	0.23	0.22
Pseudodiaptomus spp. (n=1059-train=200)	0.32	0.47	0.38
Hydrozoa (medusa) (n=671-train=200)	0.75	0.69	0.72
Gastropoda (larvae/Limacina) (n=629-train=200)	0.25	0.54	0.34
Temora spp. (n=308-train=200)	0.39	0.18	0.25
Bryozoa (larvae) (n=247-train=200)	0.14	0.51	0.22
Polychaeta (larvae) (n=237-train=200)	0.26	0.18	0.21
Ascidacea (larvae) (n=194-train=200)	0.84	0.91	0.87
Harpacticoida- epibenthic (n=108-train=200)	0.04	0.49	0.07
Centropages spp. (n=44-train=200)	0.03	0.18	0.04
Echinodermata (larvae) (n=37-train=200)	0.02	0.32	0.04
Obelia spp. (medusa) (n=21-train=200)	0.08	0.24	0.12
Evadne spp. (n=16-train=200)	0.01	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)	0.01	0.29	0.02
Decapoda-non brachyura (larvae) (n=4-train=200)	0.09	0.75	0.16
Fritillaria spp. (n=3-train=200)	0.02	1.00	0.05
Oikopleura spp. (n=2-train=200)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=200)	0.00	1.00	0.00
Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=200)	0.00	0.00	0.00
Eurytemora spp. (n=1-train=200)	0.00	0.00	0.00
Calanus spp. (n=0-train=200)	-	-	-
Labidocera spp. (n=0-train=200)	-	-	-
Tortanus spp. (n=0-train=200)	-	-	-
macro avg (corr)	0.28	0.43	0.25
weighted avg	0.82	0.45	0.48
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

