

Use of SCN features: No  
Max learning objects: 5000 objects/class  
Strategy N° 7

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

Confusion Matrix – In percent of Actual Value

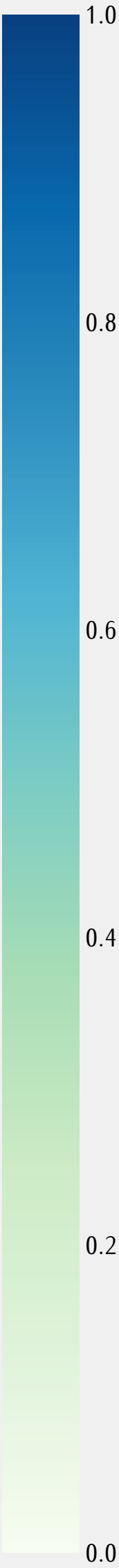
Classification Report Matrix  
max 5000 learning objects per class

Actual Values

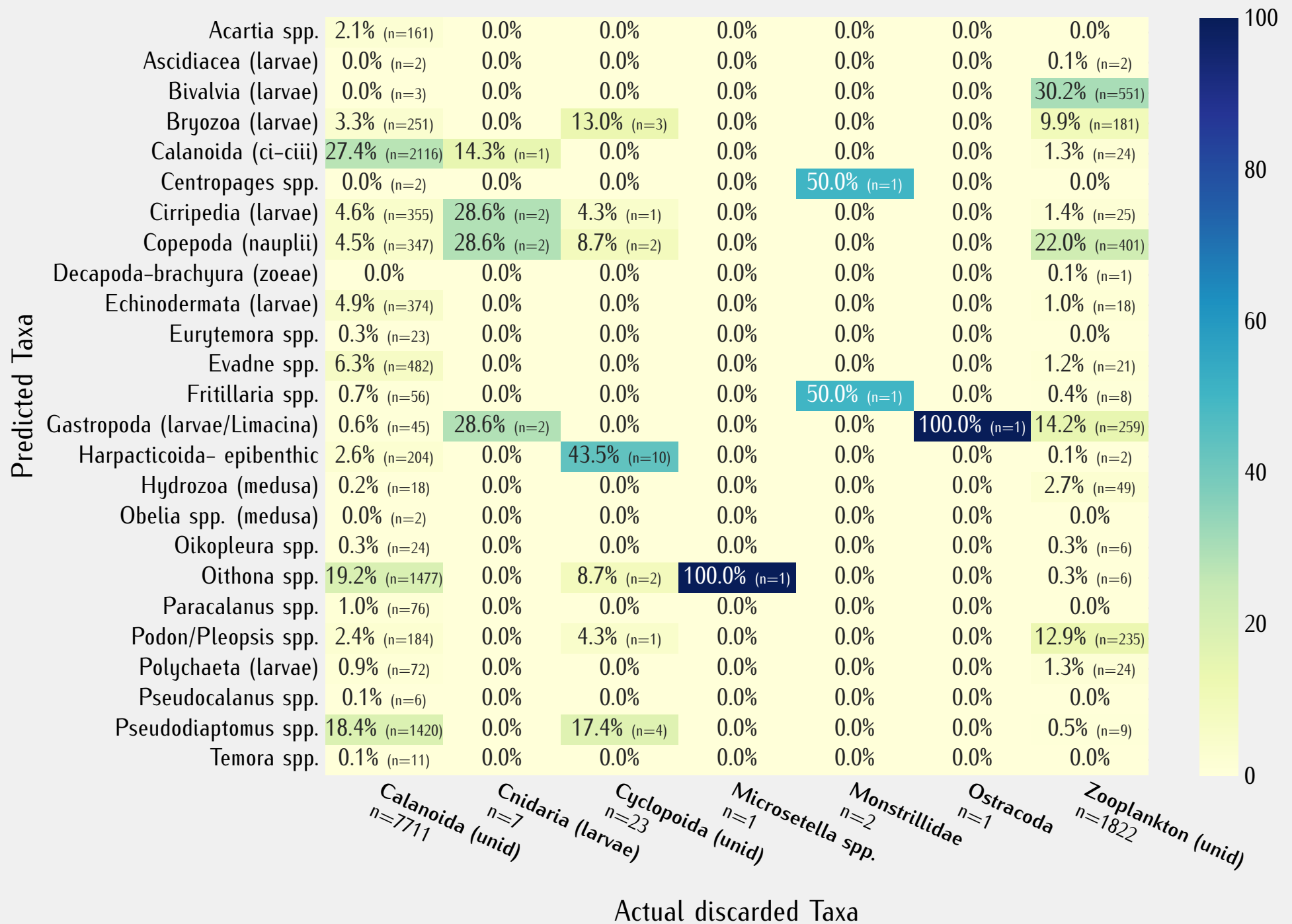
Acartia spp.	39%		<1%	<1%	30%	8%	4%	<1%		1%	<1%	<1%	<1%	1%	2%	<1%	<1%	2%	<1%		<1%	<1%	<1%	<1%	6%		<1%	5%
Bivalvia (larvae)		93%	<1%	<1%	<1%	<1%	<1%	<1%	4%		<1%	<1%	<1%	<1%		<1%		<1%	<1%				<1%					
Copepoda (nauplii)		1%	92%	1%	<1%	<1%	<1%		<1%		1%	<1%		<1%		2%			1%				<1%					
Podon/Pleopsis spp.		3%	14%	64%	<1%	<1%	<1%	1%	10%	<1%	4%	<1%		<1%				<1%	1%				<1%	<1%		<1%		
Oithona spp.	<1%		<1%	<1%	81%	3%	5%				<1%	<1%	<1%	3%		3%		<1%	1%			<1%	<1%	<1%				
Calanoida (ci-ciii)	<1%		3%	3%	15%	32%	14%	<1%	<1%		4%	1%		5%		4%		10%	6%			<1%	<1%	<1%				
Pseudodiaptomus spp.	<1%		1%	<1%	18%	5%	62%		<1%		<1%	<1%		1%	<1%	<1%		2%	3%		<1%			2%		<1%		
Hydrozoa (medusa)	<1%	2%	<1%	6%	<1%	1%	<1%	70%	6%	<1%	1%	<1%				<1%	1%	5%	<1%		<1%		1%		1%		<1%	
Gastropoda (larvae/Limacina)		13%	7%	11%	<1%	<1%	<1%	1%	66%		<1%	<1%						<1%	<1%									
Temora spp.	1%		2%	<1%	4%	6%	19%		<1%	22%	2%	3%		<1%	5%	<1%		8%	6%		11%			6%		<1%	3%	
Bryozoa (larvae)		<1%	20%	17%	<1%				8%	<1%	51%	2%							<1%				<1%					
Polychaeta (larvae)	<1%		20%	6%	<1%	3%	2%		1%	<1%		46%		<1%		3%		6%	10%				<1%		<1%	<1%		
Ascidacea (larvae)	<1%				4%		<1%				2%	90%										<1%	<1%	2%		<1%		
Harpacticoida- epibenthic			5%		32%	10%	11%			<1%			29%				<1%	<1%		<1%		3%		4%			3%	
Centropages spp.	27%				32%	9%				7%					14%									9%			2%	
Echinodermata (larvae)			3%	8%			5%				3%	3%				32%		16%	30%									
Obelia spp. (medusa)				10%	14%	5%		10%						5%			29%	14%	5%				5%		5%			
Evadne spp.										6%								75%	12%								6%	
Cirripedia (larvae)			38%						6%		6%					6%			44%									
Chaetognatha												8%								8%			23%	62%				
Pseudocalanus spp.	29%						14%			14%					14%						14%				14%			
Decapoda-non brachyura (larvae)																						100%						
Fritillaria spp.																							67%	33%				
Oikopleura spp.																							100%					
Paracalanus spp.																											100%	
Osteichthyes (larvae)																							100%					
Decapoda-brachyura (zoeae)																										100%		
Eurytemora spp.																					100%							
Acartia spp.																												
Bivalvia (larvae)																												
Copepoda (nauplii)																												
Podon/Pleopsis spp.																												
Oithona spp.																												
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Oikopleura spp.																												
Paracalanus spp.																												
Osteichthyes (larvae)																												
Decapoda-brachyura (zoeae)																												
Eurytemora spp.																												

Predicted Values

	precision	recall	f1–score
Acartia spp. (n=18062–train=5000)	0.99	0.39	0.56
Bivalvia (larvae) (n=7955–train=3764)	0.97	0.93	0.95
Copepoda (nauplii) (n=2753–train=5000)	0.79	0.92	0.85
Podon/Pleopsis spp. (n=2715–train=5000)	0.84	0.64	0.73
Oithona spp. (n=2572–train=5000)	0.26	0.81	0.40
Calanoida (ci–cii) (n=1348–train=5000)	0.21	0.32	0.25
Pseudodiaptomus spp. (n=1059–train=2113)	0.35	0.62	0.45
Hydrozoa (medusa) (n=671–train=4052)	0.83	0.70	0.76
Gastropoda (larvae/Limacina) (n=629–train=3272)	0.38	0.66	0.48
Temora spp. (n=308–train=5000)	0.26	0.22	0.24
Bryozoa (larvae) (n=247–train=1142)	0.31	0.51	0.38
Polychaeta (larvae) (n=237–train=1577)	0.55	0.46	0.50
Ascidacea (larvae) (n=194–train=861)	0.93	0.90	0.91
Harpacticoida– epibenthic (n=108–train=555)	0.07	0.29	0.12
Centropages spp. (n=44–train=3620)	0.02	0.14	0.03
Echinodermata (larvae) (n=37–train=3043)	0.04	0.32	0.06
Obelia spp. (medusa) (n=21–train=1003)	0.13	0.29	0.18
Evadne spp. (n=16–train=5000)	0.02	0.75	0.04
Cirripedia (larvae) (n=16–train=5000)	0.02	0.44	0.03
Chaetognatha (n=13–train=89)	1.00	0.08	0.14
Pseudocalanus spp. (n=7–train=4845)	0.01	0.14	0.01
Decapoda–non brachyura (larvae) (n=4–train=423)	0.50	1.00	0.67
Fritillaria spp. (n=3–train=5000)	0.02	0.67	0.04
Oikopleura spp. (n=2–train=5000)	0.00	0.00	0.00
Paracalanus spp. (n=1–train=1619)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1–train=45)	0.00	0.00	0.00
Decapoda–brachyura (zoeae) (n=1–train=628)	0.07	1.00	0.12
Eurytemora spp. (n=1–train=1818)	0.00	0.00	0.00
macro avg	0.34	0.47	0.32
weighted avg	0.84	0.60	0.64
	precision	recall	f1–score



## Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

