

Use of SCN features: Yes
Max learning objects: 20000 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 20000 learning objects per class

Actual Values

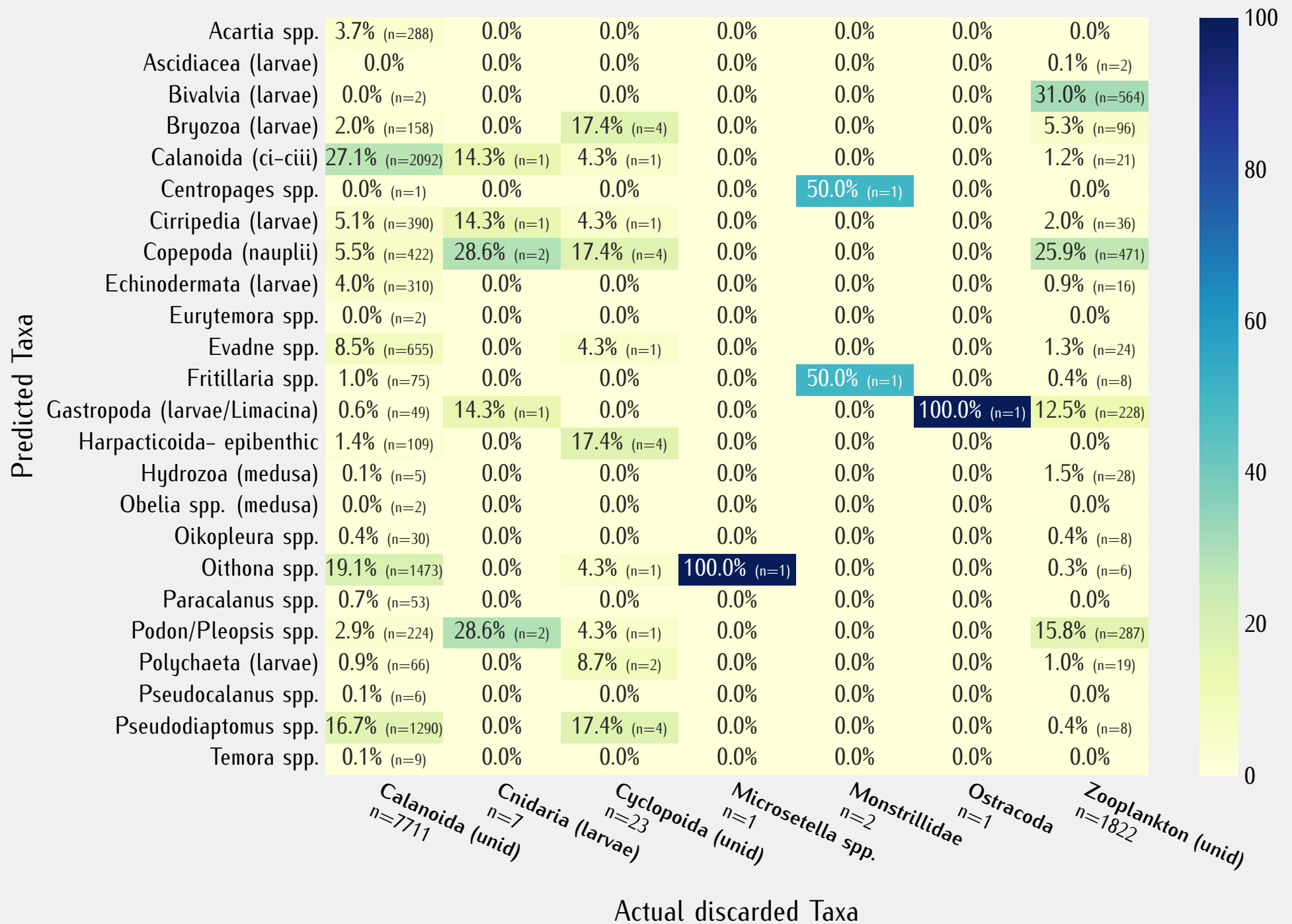
Acartia spp.	50%		<1%	<1%	27%	7%	3%	<1%		1%	<1%	<1%	<1%	<1%	1%	<1%	<1%	2%	<1%		<1%	<1%	<1%	<1%	4%		<1%	1%			<1%
Bivalvia (larvae)		93%	1%	<1%	<1%	<1%	<1%	<1%	4%		<1%	<1%	<1%	<1%		<1%		<1%	<1%			<1%	<1%								
Copepoda (nauplii)		1%	93%	1%	<1%	<1%	<1%		<1%		<1%	<1%			1%		<1%	1%				<1%	<1%								
Podon/Pleopsis spp.		4%	14%	68%	<1%	<1%	<1%	<1%	9%	<1%	2%	<1%					1%	1%					<1%	<1%		<1%					
Oithona spp.	<1%		<1%	<1%	81%	4%	5%				<1%	<1%		2%		2%		1%	1%			1%	<1%								
Calanoida (ci-ciii)	1%		4%	4%	16%	33%	12%		<1%		2%	<1%		3%		3%		12%	7%			1%	<1%	<1%							
Pseudodiaptomus spp.	2%		2%	<1%	20%	5%	57%		<1%		<1%	<1%		<1%	<1%	<1%		3%	4%		<1%		<1%	2%			<1%				
Hydrozoa (medusa)	<1%	3%	<1%	7%	1%	<1%		69%	5%	<1%	<1%	<1%				<1%	<1%	7%	<1%		<1%		2%		<1%						
Gastropoda (larvae/Limacina)	<1%	13%	9%	12%	<1%	<1%		1%	63%		<1%	<1%						<1%	<1%												
Temora spp.	5%		2%	2%	4%	7%	18%			26%	<1%	3%			3%			10%	5%		9%			5%			<1%				
Bryozoa (larvae)		<1%	27%	21%	<1%	<1%			9%		38%	2%							<1%				<1%								
Polychaeta (larvae)	<1%	<1%	22%	7%	<1%	1%	2%		1%	<1%	<1%	39%			3%			6%	13%			<1%	<1%			<1%	<1%				
Ascidacea (larvae)	<1%				3%		<1%					2%	92%									<1%	<1%	2%							
Harpacticoida- epibenthic	2%		5%		37%	11%	13%			<1%	<1%	<1%		19%		<1%		<1%	<1%		2%		3%		3%		<1%				
Centropages spp.	34%				34%	7%				7%					9%				2%					5%		2%					
Echinodermata (larvae)			11%	11%		3%	5%									27%		19%	24%												
Obelia spp. (medusa)				10%	14%	5%		5%							5%	24%	24%	5%				5%		5%							
Evadne spp.						6%												81%	12%												
Cirripedia (larvae)			44%	6%							6%				6%				38%												
Chaetognatha																						23%	77%								
Pseudocalanus spp.	29%									29%											43%										
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%										
Extra training classes																															
Calanus spp.																															
Labidocera spp.																															
Tortanus spp.																															

Predicted Values

		precision	recall	f1-score	
Gastropoda (larvae/Limacina) (n=629-train=3272)	Acartia spp. (n=18062-train=20000)	0.99	0.50	0.66	1.0
	Bivalvia (larvae) (n=7955-train=3764)	0.97	0.93	0.95	
	Copepoda (nauplii) (n=2753-train=11555)	0.76	0.93	0.84	
	Podon/Pleopsis spp. (n=2715-train=7347)	0.82	0.68	0.74	
	Oithona spp. (n=2572-train=5881)	0.28	0.81	0.42	
	Calanoida (ci-ciii) (n=1348-train=5557)	0.22	0.33	0.27	
	Pseudodiaptomus spp. (n=1059-train=2113)	0.38	0.57	0.46	
	Hydrozoa (medusa) (n=671-train=4052)	0.88	0.69	0.77	
	Temora spp. (n=308-train=7347)	0.29	0.26	0.27	
	Bryozoa (larvae) (n=247-train=1142)	0.42	0.38	0.40	
	Polychaeta (larvae) (n=237-train=1577)	0.57	0.39	0.46	
	Ascidacea (larvae) (n=194-train=861)	0.97	0.92	0.94	
	Harpacticoida- epibenthic (n=108-train=555)	0.10	0.19	0.13	
	Centropages spp. (n=44-train=3620)	0.02	0.09	0.03	
Decapoda-non brachyura (larvae) (n=4-train=423)	Echinodermata (larvae) (n=37-train=3043)	0.04	0.27	0.07	0.6
	Obelia spp. (medusa) (n=21-train=1003)	0.31	0.24	0.27	
	Evadne spp. (n=16-train=11064)	0.02	0.81	0.03	
	Cirripedia (larvae) (n=16-train=7685)	0.01	0.38	0.02	
	Chaetognatha (n=13-train=89)	0.00	0.00	0.00	
	Pseudocalanus spp. (n=7-train=4845)	0.03	0.43	0.05	
	Fritillaria spp. (n=3-train=6992)	0.02	0.67	0.03	
	Oikopleura spp. (n=2-train=5305)	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	
	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)		0.32	0.43	0.32	0.4
weighted avg		0.84	0.65	0.70	
		precision	recall	f1-score	0.0



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

