

Use of SCN features: No
Max learning objects: 5000 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 5000 learning objects per class

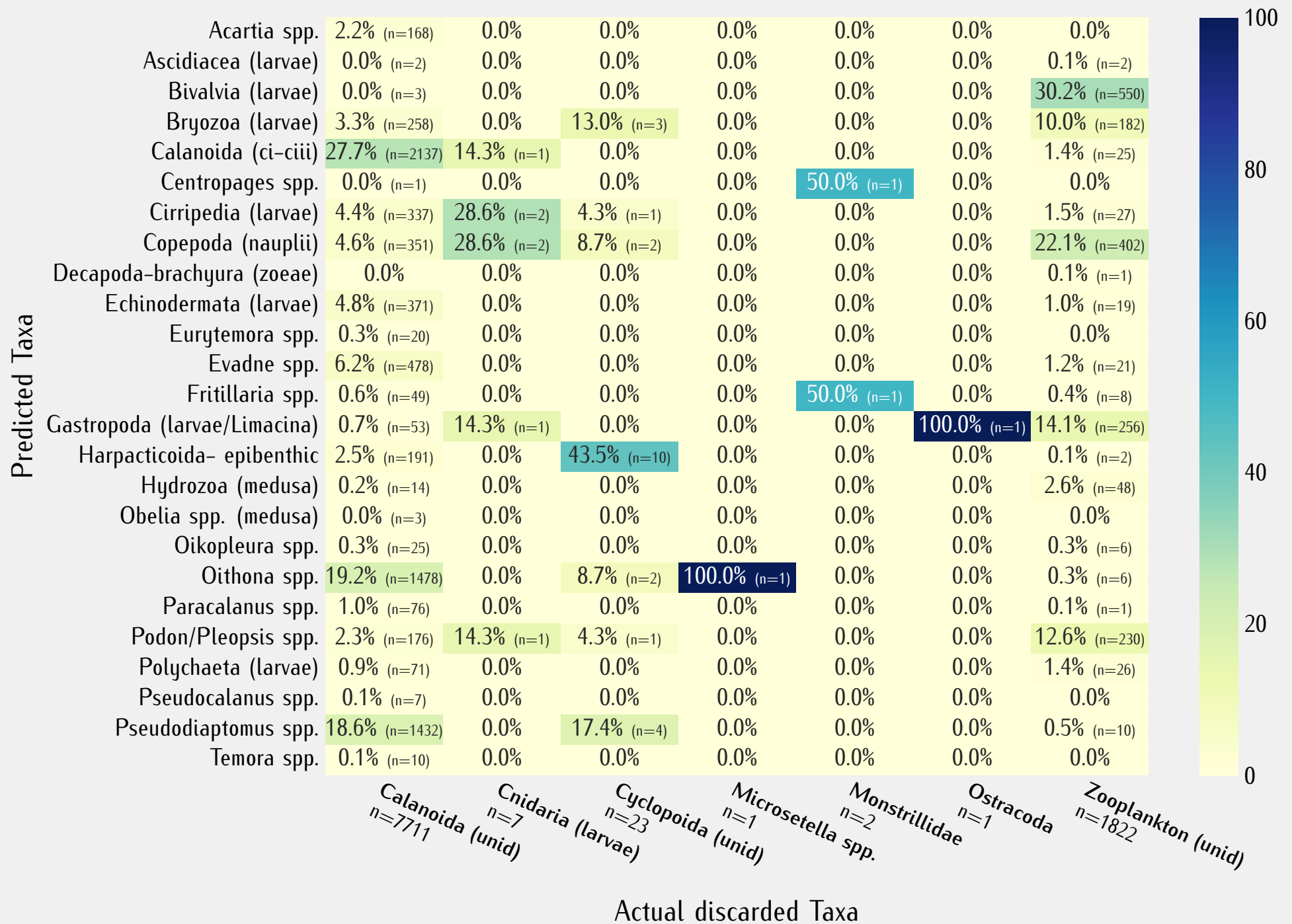
Actual Values

Confusion Matrix - In percent of Actual Value																													
Acartia spp.	39%		<1%	<1%	30%	8%	4%	<1%		1%	<1%	<1%	<1%	1%	2%	<1%	<1%	2%	<1%		<1%	<1%	<1%	6%		<1%	4%	<1%	<1%
Bivalvia (larvae)		93%	<1%	<1%	<1%	<1%	<1%	4%		<1%	<1%	<1%	<1%		<1%		<1%	<1%					<1%						
Copepoda (nauplii)		2%	92%	<1%	<1%	<1%	<1%		<1%		1%	<1%		<1%		2%			1%				<1%						
Podon/Pleopsis spp.		3%	13%	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%	33%	14%	<1%	<1%		4%	1%		5%		4%		10%	6%			<1%	<1%	<1%					
Pseudodiaptomus spp.	<1%		1%	<1%	17%	6%	63%		<1%		1%	<1%		2%	<1%	<1%		2%	3%		<1%		2%			1%			
Hydrozoa (medusa)	<1%	2%	<1%	7%	<1%	1%		70%	6%	<1%	<1%	1%				<1%	1%	5%	<1%		<1%		1%						
Gastropoda (larvae/Limacina)		13%	7%	10%	<1%	<1%	<1%	2%	66%		<1%	<1%						<1%	<1%										
Temora spp.	<1%		2%	<1%	4%	6%	19%		<1%	21%	2%	3%		<1%	6%	<1%		8%	6%		12%			5%		<1%	3%		
Bryozoa (larvae)		<1%	21%	17%	<1%	<1%			8%		50%	2%								<1%			<1%						
Polychaeta (larvae)	<1%		20%	6%	<1%	2%	2%		1%	<1%	<1%	45%		<1%		3%		5%	11%			<1%		<1%	<1%				
Ascidacea (larvae)	<1%				4%		<1%					2%	90%								<1%	<1%	2%		<1%				
Harpacticoida- epibenthic			5%		34%	10%	11%			2%	<1%				27%		<1%	<1%	<1%		<1%	2%		4%		<1%			
Centropages spp.	27%				30%	7%	2%			5%						16%				2%				9%		2%			
Echinodermata (larvae)			5%	11%		3%	3%					3%					32%		16%	24%									3%
Obelia spp. (medusa)				5%	24%	5%		10%						5%		5%	19%	14%	10%				5%						
Evadne spp.				6%														75%	12%				6%						
Cirripedia (larvae)			44%						6%		6%					6%			38%										
Chaetognatha												8%									8%		31%	54%					
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%								
Extra training classes																													
Calanus spp.																													
Labidocera spp.																													
Tortanus spp.																													

Classification Report Matrix max 5000 learning objects per class			
	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-ciii) (n=1348-train=5000)	0.21	0.33	0.25
Pseudodiaptomus spp. (n=1059-train=2113)	0.35	0.63	0.45
Hydrozoa (medusa) (n=671-train=4052)	0.82	0.70	0.75
Gastropoda (larvae/Limacina) (n=629-train=3272)	0.38	0.66	0.48
Temora spp. (n=308-train=5000)	0.24	0.21	0.23
Bryozoa (larvae) (n=247-train=1142)	0.31	0.50	0.38
Polychaeta (larvae) (n=237-train=1577)	0.55	0.45	0.49
Ascidacea (larvae) (n=194-train=861)	0.94	0.90	0.92
Harpacticoida- epibenthic (n=108-train=555)	0.07	0.27	0.11
Centropages spp. (n=44-train=3620)	0.02	0.16	0.04
Echinodermata (larvae) (n=37-train=3043)	0.03	0.32	0.06
Obelia spp. (medusa) (n=21-train=1003)	0.10	0.19	0.13
Evadne spp. (n=16-train=5000)	0.02	0.75	0.04
Cirripedia (larvae) (n=16-train=5000)	0.01	0.38	0.03
Chaetognatha (n=13-train=89)	0.50	0.08	0.13
Pseudocalanus spp. (n=7-train=4845)	0.01	0.14	0.01
Decapoda-non brachyura (larvae) (n=4-train=423)	0.57	1.00	0.73
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	0.13
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	0.46	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

