

Use of SCN features: No  
Max learning objects: 200 objects/class  
Strategy N° 4

Gulf Selected Samples prediction using Gulf training set,  
Learning with selected samples classes with no low regional training instances, with 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

	Confusion Matrix - In percent of Actual Value																												
	Acartia spp.	Bivalvia (larvae)	Copepoda (nauplii)	Podon/Pleopsis spp.	Oithona spp.	Calanoida (ci-ciui)	Pseudodiaptomus spp.	Hydrozoa (medusa)	Gastropoda (larvae/Limacina)	Temora spp.	Bryozoa (larvae)	Polychaeta (larvae)	Ascidiaacea (larvae)	Harpacticoida- epibenthic	Centropages spp.	Echinodermata (larvae)	Obelia spp. (medusa)	Evadne spp.	Cirripedia (larvae)	Pseudocalanus spp.	Decapoda-non brachyura (larvae)	Fritillaria spp.	Eurytemora spp.	Decapoda-brachyura (zoeae)	Osteichthyes (larvae)	Paracalanus spp.	Calanus spp.	Labidocera spp.	Tortanus spp.
Acartia spp.	18%		<1%	<1%	31%	4%	5%	<1%	<1%	2%	<1%		<1%	5%	2%	<1%	<1%	2%	<1%	4%	<1%	1%	15%	<1%	<1%	3%	<1%		4%
Bivalvia (larvae)		90%	1%	<1%	<1%	<1%	1%	6%		<1%	<1%	<1%	<1%		<1%	<1%			<1%										
Copepoda (nauplii)		3%	81%	<1%		<1%	<1%		<1%		6%	3%		<1%		3%			1%			<1%							
Podon/Pleopsis spp.		6%	14%	45%	<1%	<1%	<1%	2%	13%	<1%	10%	3%		<1%		<1%	<1%	<1%	4%		<1%	<1%	<1%		<1%				<1%
Oithona spp.	<1%		<1%	<1%	70%	6%	6%					<1%	12%		2%		1%	<1%	<1%		1%	<1%							<1%
Calanoida (ci-ciui)	<1%		3%	1%	9%	38%	11%	<1%	<1%		6%	<1%		13%		5%		9%	3%		1%								
Pseudodiaptomus spp.	<1%		<1%	<1%	16%	15%	37%		<1%	<1%	1%			20%	<1%	4%		2%	<1%	<1%		<1%	2%		<1%				<1%
Hydrozoa (medusa)		2%		3%	1%		<1%	67%	7%	<1%	4%	<1%		<1%		<1%	4%	5%	1%	<1%		<1%	<1%		<1%	<1%			<1%
Gastropoda (larvae/Limacina)		16%	9%	8%		<1%		3%	54%	<1%	6%	2%		<1%				<1%	<1%	<1%									
Temora spp.	<1%		1%	<1%	1%	9%	14%			22%	5%			5%	6%	5%		7%	2%	6%			5%	<1%	<1%	6%	4%		1%
Bryozoa (larvae)		1%	19%	12%	<1%	<1%			6%		57%	2%							<1%						<1%				
Polychaeta (larvae)	<1%	<1%	13%	4%	<1%	4%	<1%		<1%		2%	49%		2%		6%	<1%	6%	4%		<1%	3%		<1%	<1%				
Ascidiaacea (larvae)	<1%				2%		<1%			<1%			91%	1%					<1%						4%				
Harpacticoida- epibenthic	<1%		3%		12%	13%	4%			<1%	4%			54%		<1%	<1%	<1%	2%	<1%	<1%	2%			<1%				
Centropages spp.	23%				39%					14%				2%	11%				5%		5%				2%				
Echinodermata (larvae)				3%	3%	11%	3%			3%	3%			30%		19%	22%		3%										3%
Obelia spp. (medusa)					19%	5%	5%	10%									19%	29%	5%				5%				5%		
Evadne spp.										6%	12%						6%		62%	6%					6%				
Cirripedia (larvae)			31%						6%			12%					25%			25%									
Pseudocalanus spp.	29%									43%											14%					14%			
Decapoda-non brachyura (larvae)																						50%			25%			25%	
Fritillaria spp.												33%											67%						
Eurytemora spp.										100%																			
Decapoda-brachyura (zoeae)																												100%	
Osteichthyes (larvae)																												100%	
Paracalanus spp.																										100%			

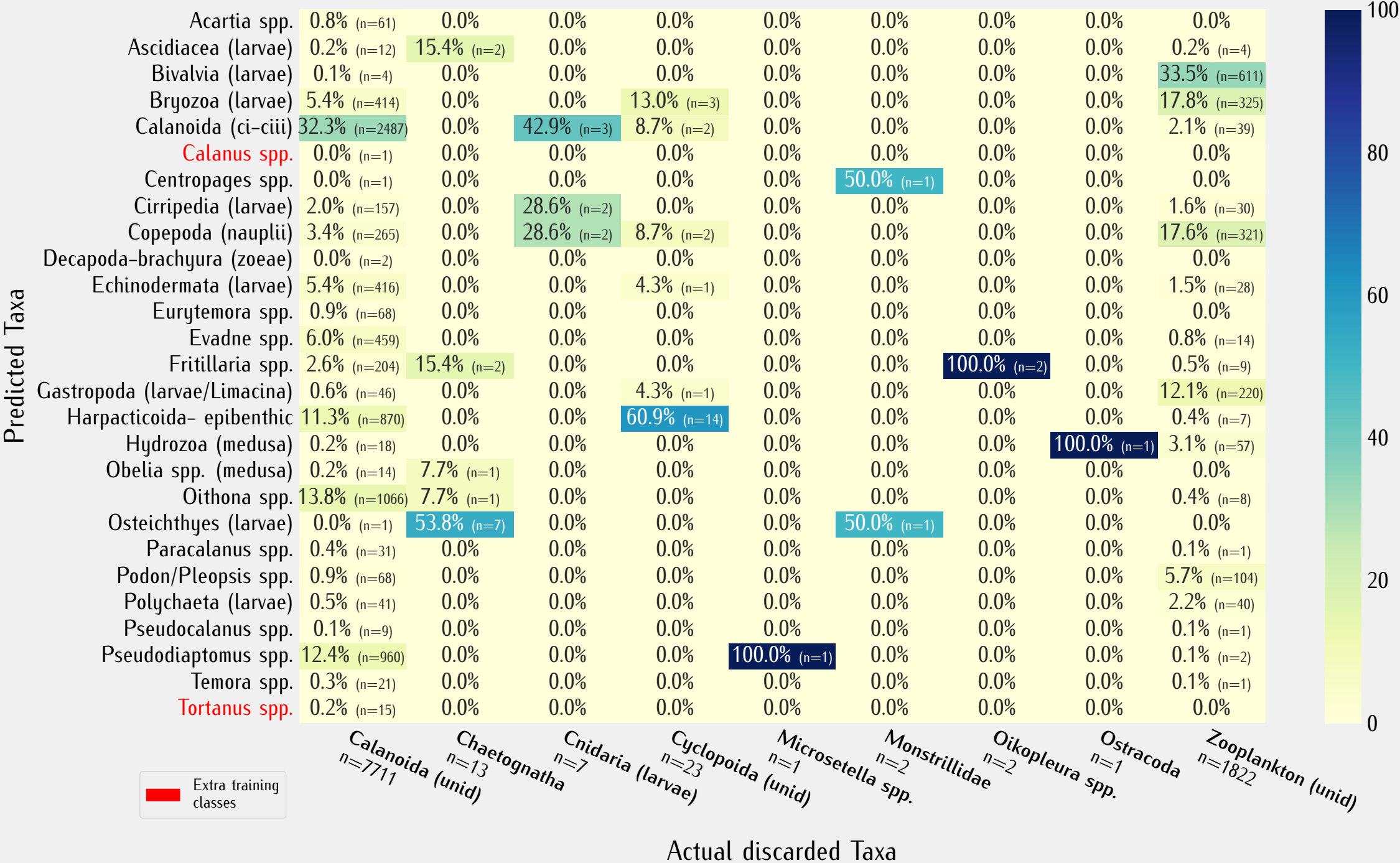
Predicted Values

Extra  
training  
classes

	precision	recall	f1-score
Acartia spp. (n=18062-train=200)	0.99	0.18	0.31
Bivalvia (larvae) (n=7955-train=200)	0.95	0.90	0.92
Copepoda (nauplii) (n=2753-train=200)	0.76	0.81	0.79
Podon/Pleopsis spp. (n=2715-train=200)	0.88	0.45	0.60
Oithona spp. (n=2572-train=200)	0.23	0.70	0.35
Calanoida (ci-ciui) (n=1348-train=200)	0.29	0.38	0.33
Pseudodiaptomus spp. (n=1059-train=200)	0.23	0.37	0.28
Hydrozoa (medusa) (n=671-train=200)	0.72	0.67	0.69
Gastropoda (larvae/Limacina) (n=629-train=200)	0.28	0.54	0.37
Temora spp. (n=308-train=200)	0.16	0.22	0.19
Bryozoa (larvae) (n=247-train=200)	0.16	0.57	0.25
Polychaeta (larvae) (n=237-train=200)	0.38	0.49	0.43
Ascidiaacea (larvae) (n=194-train=200)	0.63	0.91	0.75
Harpacticoida- epibenthic (n=108-train=200)	0.03	0.54	0.06
Centropages spp. (n=44-train=200)	0.02	0.11	0.03
Echinodermata (larvae) (n=37-train=118)	0.03	0.30	0.05
Obelia spp. (medusa) (n=21-train=200)	0.03	0.19	0.05
Evadne spp. (n=16-train=200)	0.01	0.62	0.03
Cirripedia (larvae) (n=16-train=200)	0.01	0.25	0.03
Pseudocalanus spp. (n=7-train=200)	0.00	0.14	0.00
Decapoda-non brachyura (larvae) (n=4-train=197)	0.06	0.50	0.10
Fritillaria spp. (n=3-train=200)	0.01	0.67	0.01
Eurytemora spp. (n=1-train=200)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=200)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1-train=43)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=82)	0.00	1.00	0.00
Calanus spp. (n=0-train=109)	-	-	-
Labidocera spp. (n=0-train=200)	-	-	-
Tortanus spp. (n=0-train=111)	-	-	-
macro avg (corr)	0.26	0.44	0.25
weighted avg	0.82	0.46	0.50
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

