

Use of SCN features: Yes
Max learning objects: 20000 objects/class
Strategy N° 1

Gulf Selected Samples prediction using Gulf training set,
Learning with all classes present in the selected samples, no extra training categories,
No Calanoida, Cyclopoida, Zooplankton classes in learning set

Confusion Matrix - In percent of Actual Value

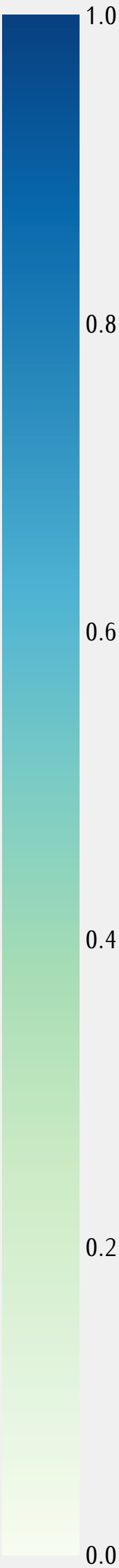
Classification Report Matrix
max 20000 learning objects per class

Actual Values

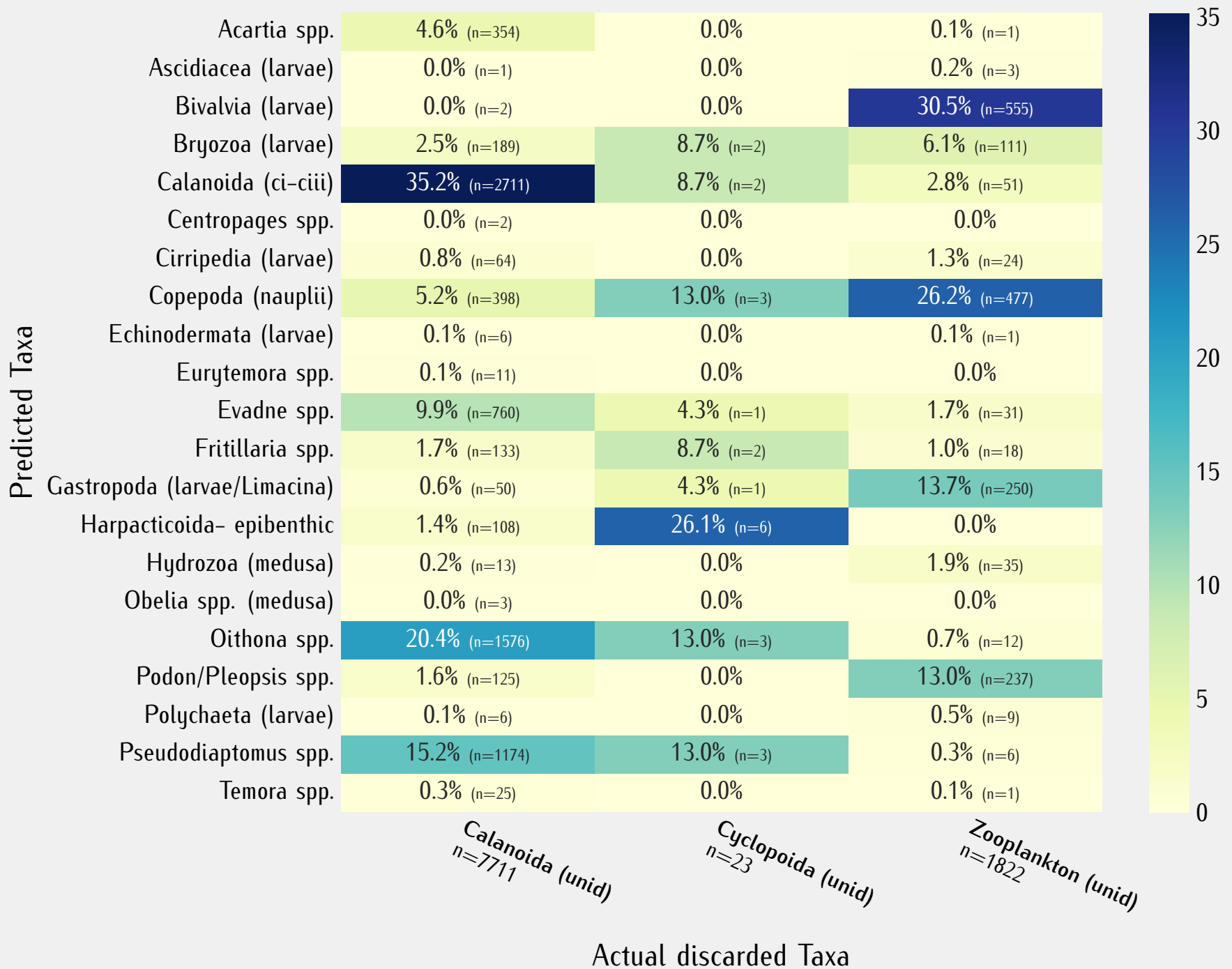
Acartia spp.	57%	<1%	<1%	<1%	26%	5%	4%	<1%	<1%	<1%	<1%		<1%	<1%	1%		<1%	4%	<1%				<1%	<1%			<1%			1%
Bivalvia (larvae)		93%	1%	<1%	<1%	<1%	<1%	<1%	4%		<1%		<1%				<1%	<1%				<1%								
Copepoda (nauplii)		1%	94%	1%	<1%	<1%	<1%		<1%		<1%	<1%			<1%		<1%	<1%				<1%								
Podon/Pleopsis spp.	<1%	3%	14%	65%	<1%	<1%	<1%	1%	10%	<1%	2%	<1%					2%	1%				<1%	<1%			<1%				<1%
Oithona spp.	1%		<1%	<1%	82%	7%	4%				<1%			2%			1%	<1%				1%								
Calanoida (ci-ciii)	1%		4%	2%	17%	41%	13%	<1%	<1%		3%	<1%		3%			14%	<1%				1%								
Pseudodiaptomus spp.	3%		2%	<1%	22%	12%	53%		<1%	<1%	<1%			1%	<1%		4%	<1%				<1%								<1%
Hydrozoa (medusa)	2%	2%		5%	1%			73%	6%	<1%	<1%				<1%	<1%	2%	7%	<1%			<1%								
Gastropoda (larvae/Limacina)	<1%	13%	9%	10%	<1%	<1%		1%	64%	<1%	<1%						1%	<1%												
Temora spp.	7%		2%	<1%	6%	8%	16%		<1%	32%	2%			<1%	8%		14%	<1%												3%
Bryozoa (larvae)		<1%	27%	20%	<1%	<1%			9%	<1%	40%	<1%	<1%				<1%				<1%									
Polychaeta (larvae)	<1%		22%	5%	<1%	6%	3%		2%			43%		<1%			11%	2%			<1%	2%		<1%	<1%					
Ascidacea (larvae)	1%				4%		1%						93%								<1%				<1%					
Harpacticoida- epibenthic	4%		5%		36%	13%	11%			2%	<1%			18%			3%	<1%				6%								2%
Centropages spp.	43%				30%					11%					11%		2%													2%
Echinodermata (larvae)			11%	5%		24%	5%			3%					5%		38%	5%				3%								
Obelia spp. (medusa)	5%			5%	19%	5%		10%							29%	29%														
Evadne spp.								6%		6%							81%	6%												
Cirripedia (larvae)			50%			6%			6%									38%												
Chaetognatha	8%				8%								23%						8%			23%				31%				
Pseudocalanus spp.	57%									43%																				
Cnidaria (larvae)			29%	14%		29%											14%		14%											
Decapoda-non brachyura (larvae)																				100%										
Fritillaria spp.					33%																	67%								
Oikopleura spp.																						100%								
Monstrillidae														50%											50%					
Decapoda-brachyura (zoeae)																					100%									
Osteichthyes (larvae)																										100%				
Ostracoda									100%																					
Paracalanus spp.																														100%
Microsetella spp.					100%																									
Eurytemora spp.										100%																				
Acartia spp.																														
Bivalvia (larvae)																														
Copepoda (nauplii)																														
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Paracalanus spp.																														
Microsetella spp.																														
Eurytemora spp.																														

Predicted Values

	precision	recall	f1-score
Acartia spp. (n=18062-train=20000)	0.99	0.57	0.72
Bivalvia (larvae) (n=7955-train=3574)	0.97	0.93	0.95
Copepoda (nauplii) (n=2753-train=10297)	0.77	0.94	0.85
Podon/Pleopsis spp. (n=2715-train=3541)	0.87	0.65	0.74
Oithona spp. (n=2572-train=4428)	0.29	0.82	0.43
Calanoida (ci-ciii) (n=1348-train=1531)	0.31	0.41	0.35
Pseudodiaptomus spp. (n=1059-train=2113)	0.35	0.53	0.42
Hydrozoa (medusa) (n=671-train=3730)	0.84	0.73	0.78
Gastropoda (larvae/Limacina) (n=629-train=2871)	0.38	0.64	0.47
Temora spp. (n=308-train=2199)	0.32	0.32	0.32
Bryozoa (larvae) (n=247-train=973)	0.40	0.40	0.40
Polychaeta (larvae) (n=237-train=464)	0.85	0.43	0.57
Ascidacea (larvae) (n=194-train=805)	0.97	0.93	0.95
Harpacticoida- epibenthic (n=108-train=372)	0.10	0.18	0.13
Centropages spp. (n=44-train=3461)	0.02	0.11	0.03
Echinodermata (larvae) (n=37-train=118)	0.25	0.05	0.09
Obelia spp. (medusa) (n=21-train=952)	0.27	0.29	0.28
Evadne spp. (n=16-train=7238)	0.01	0.81	0.02
Cirripedia (larvae) (n=16-train=716)	0.06	0.38	0.11
Chaetognatha (n=13-train=18)	1.00	0.08	0.14
Pseudocalanus spp. (n=7-train=228)	0.00	0.00	0.00
Cnidaria (larvae) (n=7-train=20)	1.00	0.14	0.25
Decapoda-non brachyura (larvae) (n=4-train=197)	0.29	1.00	0.44
Fritillaria spp. (n=3-train=2701)	0.01	0.67	0.02
Oikopleura spp. (n=2-train=37)	0.00	0.00	0.00
Monstrillidae (n=2-train=27)	1.00	0.50	0.67
Decapoda-brachyura (zoeae) (n=1-train=277)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1-train=43)	0.12	1.00	0.22
Ostracoda (n=1-train=1)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=82)	0.00	0.00	0.00
Microsetella spp. (n=1-train=4)	0.00	0.00	0.00
Eurytemora spp. (n=1-train=1730)	0.00	0.00	0.00
macro avg	0.39	0.42	0.32
weighted avg	0.84	0.68	0.72
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

