

Use of SCN features: Yes
Max learning objects: 20000 objects/class
Strategy N° 3

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

Confusion Matrix – In percent of Actual Value

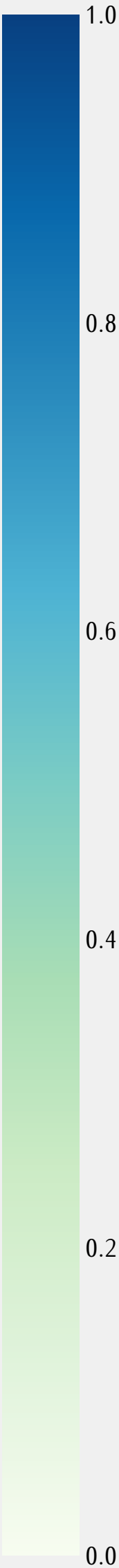
Classification Report Matrix
max 20000 learning objects per class

Actual Values

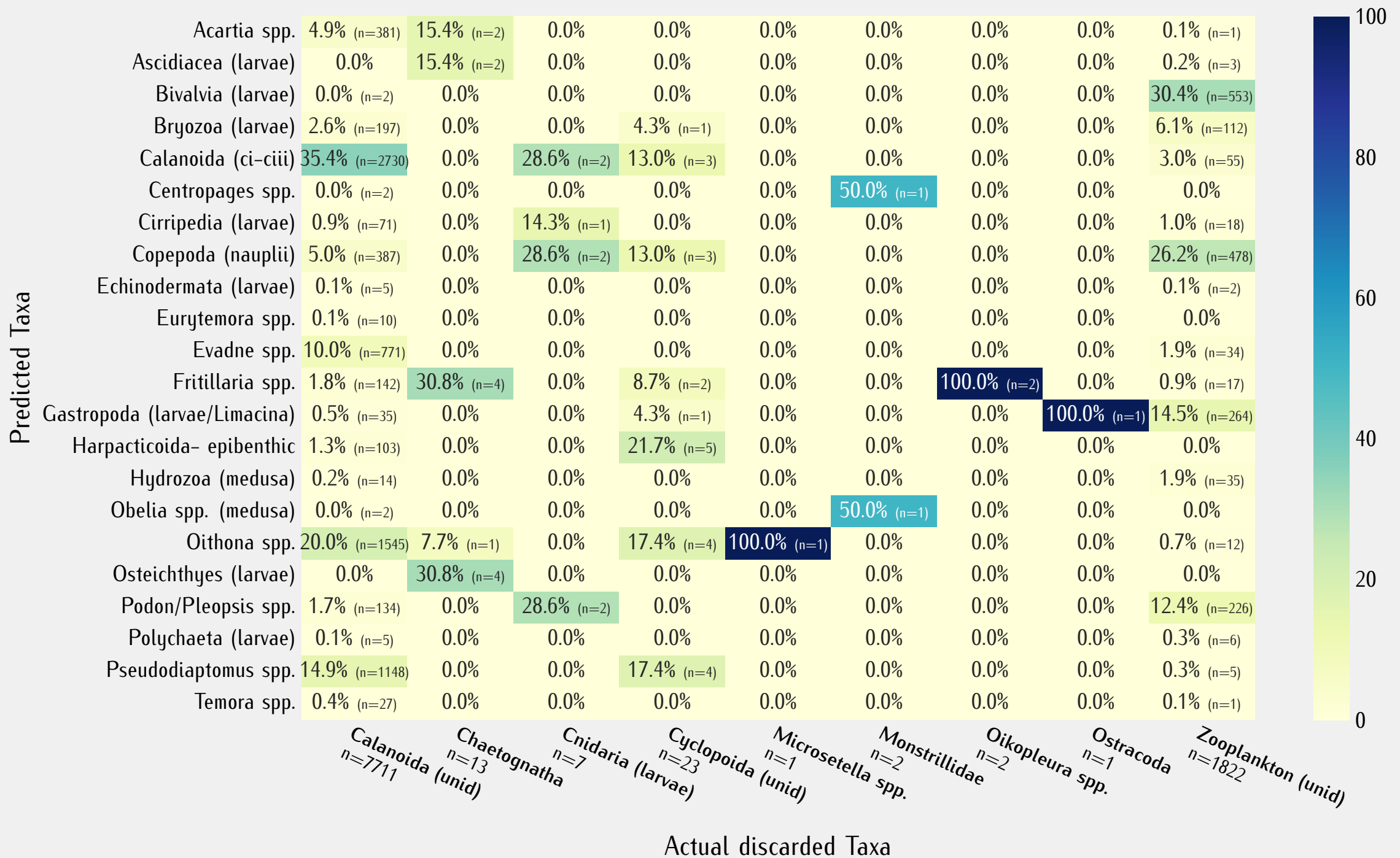
Acartia spp.	57%		<1%	<1%	26%	5%	4%	<1%		1%	<1%		<1%	<1%	1%		<1%	4%	<1%		<1%	<1%	1%	<1%		
Bivalvia (larvae)		93%	1%	<1%	<1%	<1%	<1%	<1%	4%		<1%		<1%				<1%	<1%		<1%						
Copepoda (nauplii)		1%	94%	1%	<1%	<1%	<1%		<1%		<1%	<1%			<1%		<1%	<1%		<1%						
Podon/Pleopsis spp.	<1%	3%	14%	65%	<1%	<1%	<1%	1%	10%	<1%	2%	<1%		<1%		<1%	2%	1%		<1%	<1%	<1%	<1%			
Oithona spp.	1%		<1%	<1%	82%	7%	4%	<1%		<1%	<1%	<1%		2%			2%	<1%			1%					
Calanoida (ci-ciii)	1%		4%	2%	17%	41%	13%	<1%	<1%		3%	<1%		2%		<1%		14%	1%		1%					
Pseudodiaptomus spp.	3%		2%		21%	12%	54%		<1%	<1%	<1%			2%	<1%			4%	<1%			<1%				
Hydrozoa (medusa)	2%	2%		4%	1%		<1%	72%	6%	<1%	<1%				<1%	<1%	2%	7%	<1%		<1%	<1%				
Gastropoda (larvae/Limacina)	<1%	14%	8%	11%	<1%	<1%		1%	64%	<1%	<1%						<1%	<1%								
Temora spp.	8%		2%	<1%	6%	8%	16%		<1%	30%	1%			<1%	8%			15%	<1%			3%				
Bryozoa (larvae)	<1%	<1%	26%	17%	<1%	<1%	<1%	<1%	10%		42%	<1%						1%			<1%					
Polychaeta (larvae)	<1%		21%	5%	<1%	5%	3%		2%		<1%	44%						11%	2%		<1%	2%		1%	<1%	
Ascidacea (larvae)	1%				4%		2%							93%							<1%			<1%		
Harpacticoida- epibenthic	6%		5%		38%	14%	11%			2%	2%				18%			3%			3%					
Centropages spp.	43%				30%					11%						14%						2%				
Echinodermata (larvae)			11%	8%	3%	27%	3%			3%							5%		35%	3%		3%				
Obelia spp. (medusa)	5%				19%	5%		10%									29%	33%								
Evadne spp.										6%								88%	6%							
Cirripedia (larvae)			50%			6%			6%										38%							
Pseudocalanus spp.	43%						14%			43%																
Decapoda-non brachyura (larvae)																				100%						
Fritillaria spp.																					100%					
Eurytemora spp.										100%																
Decapoda-brachyura (zoeae)																				100%						
Osteichthyes (larvae)																								100%		
Paracalanus spp.																						100%				
Acartia spp.																										
Bivalvia (larvae)																										
Copepoda (nauplii)																										
Podon/Pleopsis spp.																										
Oithona spp.																										
Calanoida (ci-ciii)																										
Pseudodiaptomus spp.																										
Hydrozoa (medusa)																										
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Osteichthyes (larvae)																										
Paracalanus 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	0.54	0.42
Hydrozoa (medusa) (n=671-train=3730)	0.84	0.72	0.78
Gastropoda (larvae/Limacina) (n=629-train=2871)	0.38	0.64	0.48
Temora spp. (n=308-train=2199)	0.29	0.30	0.29
Bryozoa (larvae) (n=247-train=973)	0.37	0.42	0.40
Polychaeta (larvae) (n=237-train=464)	0.85	0.44	0.58
Ascidacea (larvae) (n=194-train=805)	0.97	0.93	0.95
Harpacticoida- epibenthic (n=108-train=372)	0.11	0.18	0.13
Centropages spp. (n=44-train=3461)	0.02	0.14	0.04
Echinodermata (larvae) (n=37-train=118)	0.20	0.05	0.09
Obelia spp. (medusa) (n=21-train=952)	0.25	0.29	0.27
Evadne spp. (n=16-train=7238)	0.01	0.88	0.02
Cirripedia (larvae) (n=16-train=716)	0.06	0.38	0.10
Pseudocalanus spp. (n=7-train=228)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=4-train=197)	0.29	1.00	0.44
Fritillaria spp. (n=3-train=2701)	0.02	1.00	0.03
Eurytemora spp. (n=1-train=1730)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=277)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1-train=43)	0.25	1.00	0.40
Paracalanus spp. (n=1-train=82)	0.00	0.00	0.00
macro avg	0.36	0.51	0.36
weighted avg	0.84	0.68	0.73
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

