

Use of SCN features: No
Max learning objects: Maximum objects/class
Strategy N° 7

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

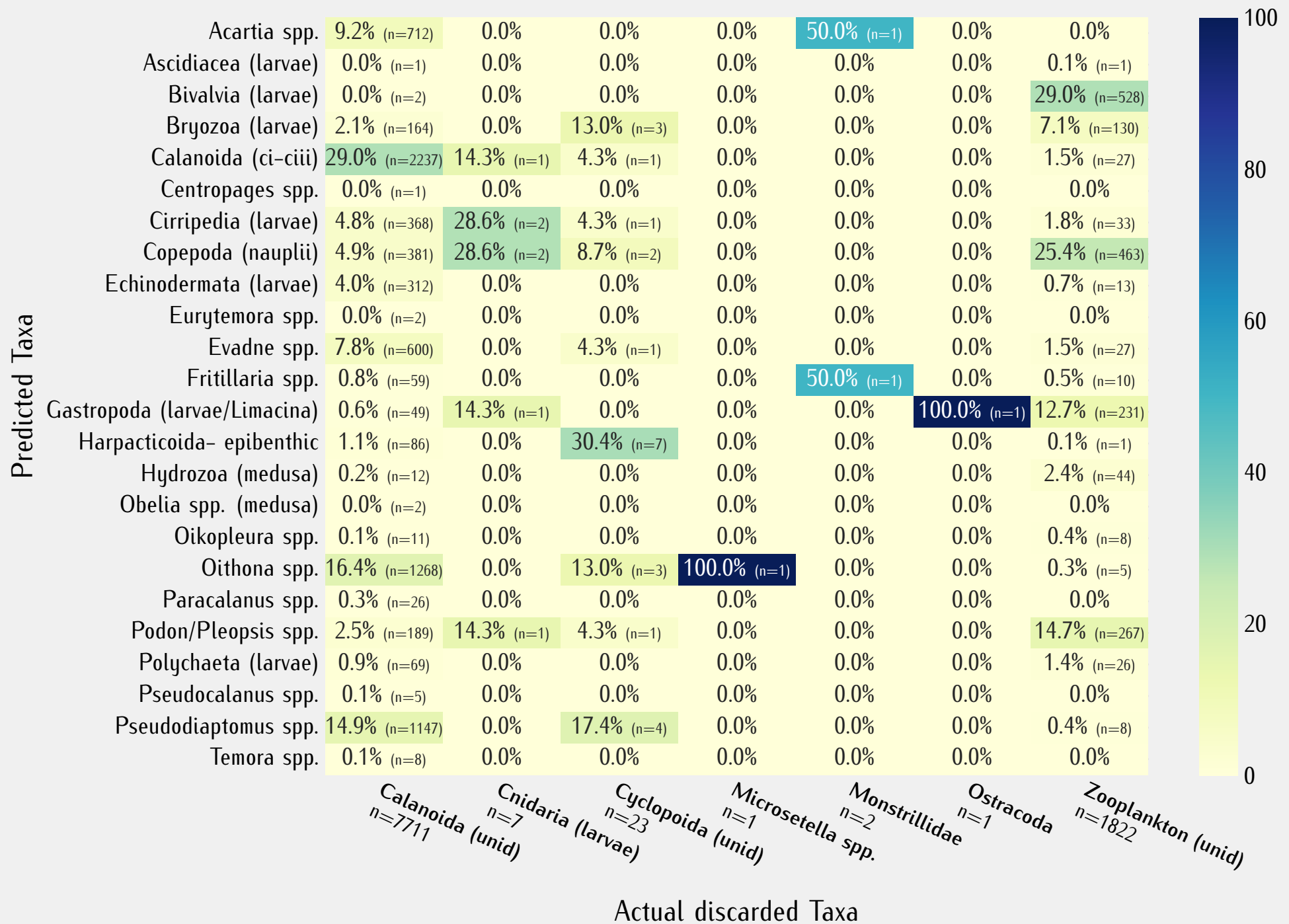
Confusion Matrix – In percent of Actual Value

	Predicted Values																											
	Acartia spp.	Bivalvia (larvae)	Copepoda (nauplii)	Podon/Pleopsis spp.	Oithona spp.	Calanoida (ci-ciii)	Pseudodiaptomus spp.	Hydrozoa (medusa)	Gastropoda (larvae/Limacina)	Temora spp.	Bryozoa (larvae)	Polychaeta (larvae)	Ascidacea (larvae)	Harpacticoida- epibenthic	Centropages spp.	Echinodermata (larvae)	Obelia spp. (medusa)	Evadne spp.	Cirripedia (larvae)	Chaetognatha	Pseudocalanus spp.	Decapoda-non brachyura (larvae)	Fritillaria spp.	Oikopleura spp.	Paracalanus spp.	Osteichthyes (larvae)	Decapoda-brachyura (zoeae)	Eurytemora spp.
Actual Values	Acartia spp.	Bivalvia (larvae)	Copepoda (nauplii)	Podon/Pleopsis spp.	Oithona spp.	Calanoida (ci-ciii)	Pseudodiaptomus spp.	Hydrozoa (medusa)	Gastropoda (larvae/Limacina)	Temora spp.	Bryozoa (larvae)	Polychaeta (larvae)	Ascidacea (larvae)	Harpacticoida- epibenthic	Centropages spp.	Echinodermata (larvae)	Obelia spp. (medusa)	Evadne spp.	Cirripedia (larvae)	Chaetognatha	Pseudocalanus spp.	Decapoda-non brachyura (larvae)	Fritillaria spp.	Oikopleura spp.	Paracalanus spp.	Osteichthyes (larvae)	Decapoda-brachyura (zoeae)	Eurytemora spp.
	68%		<1%	<1%	16%	6%	2%	<1%		<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	2%	<1%		<1%	<1%	<1%	<1%	1%		<1%	<1%
	<1%	93%	1%	<1%	<1%	<1%	<1%	<1%	4%		<1%	<1%	<1%	<1%				<1%	<1%				<1%	<1%				
		1%	93%	1%	<1%	<1%	<1%		<1%		<1%	<1%		<1%			1%		<1%	1%				<1%	<1%			
	<1%	3%	13%	67%	<1%	<1%	<1%	1%	8%	<1%	3%	<1%					1%	2%						<1%	<1%		<1%	
	3%		<1%	<1%	81%	4%	4%				<1%	<1%		1%		2%		1%	1%				<1%	<1%	<1%			
	4%		4%	3%	15%	34%	11%	<1%	<1%		2%	1%		2%		3%		12%	6%				<1%	<1%	<1%			
	7%		2%	<1%	17%	7%	57%		<1%		<1%	<1%		<1%		<1%		2%	4%	<1%				<1%			<1%	<1%
	2%	2%	<1%	7%	<1%	<1%		69%	5%	<1%	<1%	1%		<1%	<1%	6%	<1%		<1%		2%		<1%			<1%		<1%
	<1%	13%	7%	12%	<1%	<1%		1%	65%		<1%	<1%				<1%	<1%											
	8%		3%	1%	5%	7%	18%			27%	<1%	3%		2%	<1%	9%	6%		7%						2%		<1%	<1%
		<1%	24%	19%	<1%	1%			7%		45%	2%					<1%						<1%					
	<1%		21%	5%	<1%	2%	2%		1%	<1%		44%				3%		8%	10%				<1%			<1%	<1%	
	3%				2%		<1%				2%	89%								<1%	1%	3%		<1%				
	6%		5%		34%	14%	10%			<1%	<1%		20%		<1%	3%	<1%		<1%		3%							
	59%				20%	5%			2%					11%				2%										
			8%	11%			3%					3%				30%		16%	30%									
	5%			10%	19%			5%									19%	29%	5%				10%					
	6%										6%							75%	12%									
			44%	6%					6%		6%						6%			31%								
												8%									8%			23%	62%			
	43%									14%				14%							29%							
																						100%						
																								67%	33%			
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Classification Report Matrix
max available learning objects per class

	precision	recall	f1–score
Acartia spp. (n=18062–train=111319)	0.98	0.68	0.80
Bivalvia (larvae) (n=7955–train=3764)	0.97	0.93	0.95
Copepoda (nauplii) (n=2753–train=11555)	0.78	0.93	0.85
Podon/Pleopsis spp. (n=2715–train=7347)	0.83	0.67	0.74
Oithona spp. (n=2572–train=5881)	0.38	0.81	0.52
Calanoida (ci–cii) (n=1348–train=5557)	0.26	0.34	0.30
Pseudodiaptomus spp. (n=1059–train=2113)	0.44	0.57	0.50
Hydrozoa (medusa) (n=671–train=4052)	0.83	0.69	0.76
Gastropoda (larvae/Limacina) (n=629–train=3272)	0.41	0.65	0.50
Temora spp. (n=308–train=7347)	0.39	0.27	0.32
Bryozoa (larvae) (n=247–train=1142)	0.38	0.45	0.41
Polychaeta (larvae) (n=237–train=1577)	0.56	0.44	0.49
Ascidacea (larvae) (n=194–train=861)	0.97	0.89	0.92
Harpacticoida– epibenthic (n=108–train=555)	0.15	0.20	0.17
Centropages spp. (n=44–train=3620)	0.06	0.11	0.08
Echinodermata (larvae) (n=37–train=3043)	0.04	0.30	0.07
Obelia spp. (medusa) (n=21–train=1003)	0.29	0.19	0.23
Evadne spp. (n=16–train=11064)	0.02	0.75	0.03
Cirripedia (larvae) (n=16–train=7685)	0.01	0.31	0.02
Chaetognatha (n=13–train=89)	1.00	0.08	0.14
Pseudocalanus spp. (n=7–train=4845)	0.03	0.29	0.05
Decapoda–non brachyura (larvae) (n=4–train=423)	0.50	1.00	0.67
Fritillaria spp. (n=3–train=6992)	0.02	0.67	0.04
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
Decapoda–brachyura (zoeae) (n=1–train=628)	0.10	1.00	0.18
Eurytemora spp. (n=1–train=1818)	0.00	0.00	0.00
macro avg	0.37	0.47	0.35
weighted avg	0.84	0.73	0.77
	precision	recall	f1–score

Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

