

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 12

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,
With Calanoida, Cyclopoida and Zooplankton classes in learning set

Confusion Matrix - In percent of Actual Value

Classification Report Matrix
max 200 learning objects per class

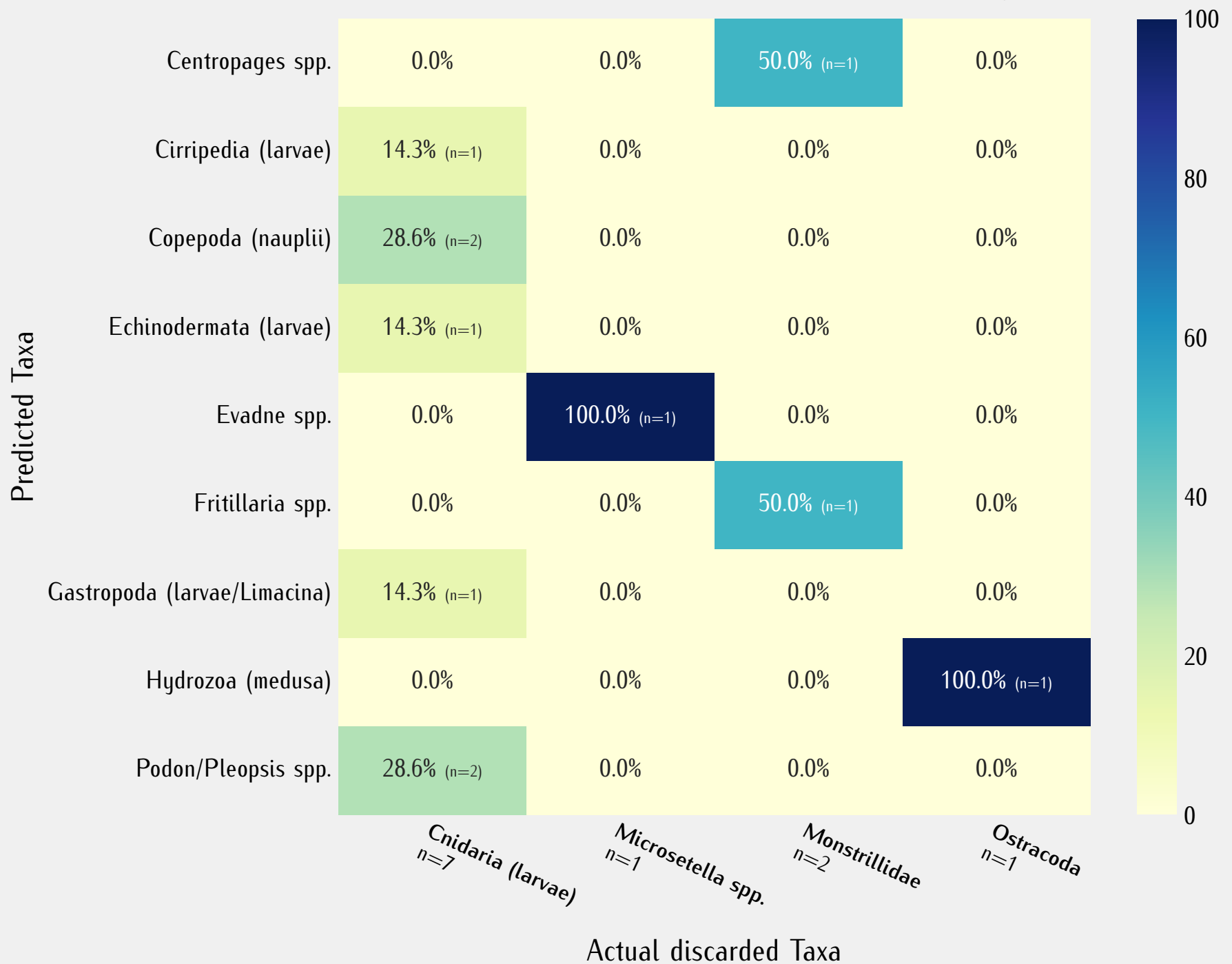
Actual Values

Acartia spp.	17%		5%	<1%	<1%	33%	<1%	4%	4%	<1%		<1%	<1%	<1%	<1%	3%	2%	<1%	1%	<1%	2%	<1%		<1%	<1%	<1%	<1%	11%	12%	<1%		<1%	1%
Bivalvia (larvae)		89%	<1%	1%	<1%	<1%	<1%	<1%	1%	6%		<1%		<1%	<1%		<1%	<1%		<1%	<1%				<1%	<1%							
Calanoida (unid)	<1%	<1%	13%	3%	2%	12%	<1%	11%	15%	<1%	<1%	5%	<1%	<1%	5%	<1%	8%	10%	<1%	6%	4%		<1%		<1%	<1%	<1%	2%	<1%				<1%
Copepoda (nauplii)		3%	<1%	77%	<1%	<1%	1%	<1%			<1%		4%	<1%		<1%		3%	10%			<1%				<1%							
Podon/Pleopsis spp.		6%		17%	41%	<1%	7%	<1%	<1%	2%	15%	<1%	8%	<1%		<1%		<1%		<1%	<1%			<1%		<1%		<1%	<1%	<1%			
Oithona spp.	<1%		3%	<1%	<1%	69%		2%	7%				<1%	<1%	<1%	7%		3%	5%		1%	<1%				<1%	<1%		<1%	<1%			
Zooplankton (unid)		32%	<1%	18%	7%	<1%	11%	<1%	<1%	2%	10%		12%	1%	<1%	<1%		1%	3%	<1%	<1%	1%			<1%	<1%		<1%	<1%				
Calanoida (ci-ciii)			16%	3%	3%	8%	<1%	13%	10%		<1%		5%	2%	<1%	6%		6%	12%		9%	5%				1%	<1%		<1%				
Pseudodiaptomus spp.	<1%		2%	<1%	<1%	17%		1%	45%		<1%		<1%	<1%		8%	<1%	3%	11%		3%	2%		<1%				2%	<1%				<1%
Hydrozoa (medusa)	<1%	3%	<1%		4%	1%	<1%		<1%	68%	5%		3%	<1%	<1%	<1%		<1%		3%	6%	<1%		<1%		<1%	<1%		3%	<1%			<1%
Gastropoda (larvae/Limacina)		16%		9%	10%		3%	<1%	<1%	2%	54%		3%	1%		<1%					<1%	<1%						<1%					
Temora spp.	<1%		3%	<1%	<1%	2%		<1%	18%			18%	3%	2%		2%	5%	2%	4%		8%	4%		13%				10%	3%	<1%			<1%
Bryozoa (larvae)		2%		22%	13%	<1%	8%			<1%	4%		46%	2%					<1%		<1%	<1%				<1%		<1%					
Polychaeta (larvae)	<1%		<1%	29%	5%	2%	2%		<1%		<1%	<1%	3%	23%		<1%		12%	4%	<1%	4%	11%			<1%		<1%	<1%			<1%		
Ascidacea (larvae)	<1%					3%			<1%				<1%	<1%	91%	1%									1%	<1%	<1%	2%					
Harpacticoida- epibenthic			4%	<1%		19%		3%	6%				2%	<1%		31%		3%	22%		2%	<1%		2%					3%	2%			
Centropages spp.	18%					43%						2%				2%	16%					2%							9%	2%			5%
Echinodermata (larvae)				3%	14%	3%			5%				3%					27%			16%	27%											3%
Cyclopoida (unid)			9%	4%		4%					4%							4%	74%														
Obelia spp. (medusa)					5%	14%				10%							5%	5%	24%	19%	14%							5%					
Evadne spp.						6%				6%											69%	12%							6%				
Cirripedia (larvae)				44%			6%				6%			19%			12%					12%											
Chaetognatha						8%								8%									23%			15%	38%	8%					
Pseudocalanus spp.	29%											29%											14%						14%	14%			
Decapoda-non brachyura (larvae)																								75%			25%						
Fritillaria spp.																									100%								
Oikopleura spp.																										100%							
Osteichthyes (larvae)																							100%										
Paracalanus spp.																												100%					
Eurytemora spp.																								100%									
Decapoda-brachyura (zoeae)																																	100%
Extra training classes																																	
Calanus spp.																																	
Labidocera spp.																																	
Tortanus spp.																																	

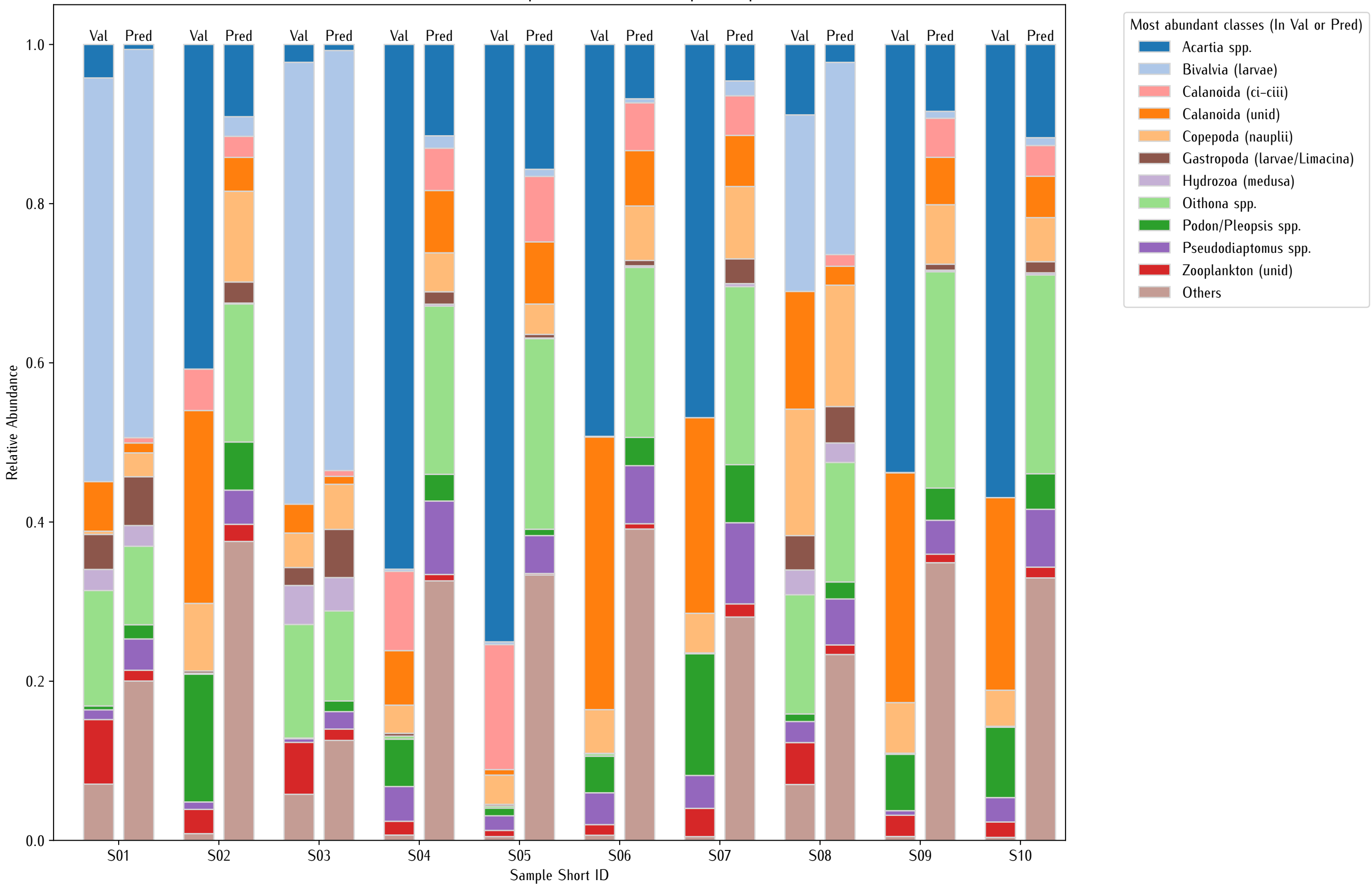
Classification Report Matrix max 200 learning objects per class			
	precision	recall	f1-score
Acartia spp. (n=18062-train=200)	0.98	0.17	0.30
Bivalvia (larvae) (n=7955-train=200)	0.88	0.89	0.89
Calanoida (unid) (n=7711-train=200)	0.45	0.13	0.20
Copepoda (nauplii) (n=2753-train=200)	0.60	0.77	0.68
Podon/Pleopsis spp. (n=2715-train=200)	0.69	0.41	0.52
Oithona spp. (n=2572-train=200)	0.20	0.69	0.30
Zooplankton (unid) (n=1822-train=200)	0.34	0.11	0.16
Calanoida (ci-ciui) (n=1348-train=200)	0.10	0.13	0.11
Pseudodiaptomus spp. (n=1059-train=200)	0.17	0.45	0.25
Hydrozoa (medusa) (n=671-train=200)	0.71	0.68	0.69
Gastropoda (larvae/Limacina) (n=629-train=200)	0.23	0.54	0.32
Temora spp. (n=308-train=200)	0.36	0.18	0.24
Bryozoa (larvae) (n=247-train=200)	0.09	0.46	0.15
Polychaeta (larvae) (n=237-train=200)	0.21	0.23	0.22
Ascidacea (larvae) (n=194-train=200)	0.83	0.91	0.87
Harpacticoida- epibenthic (n=108-train=200)	0.03	0.31	0.05
Centropages spp. (n=44-train=200)	0.02	0.16	0.04
Echinodermata (larvae) (n=37-train=200)	0.01	0.27	0.02
Cyclopoida (unid) (n=23-train=143)	0.01	0.74	0.02
Obelia spp. (medusa) (n=21-train=200)	0.08	0.24	0.12
Evadne spp. (n=16-train=200)	0.01	0.69	0.02
Cirripedia (larvae) (n=16-train=200)	0.00	0.12	0.01
Chaetognatha (n=13-train=89)	0.75	0.23	0.35
Pseudocalanus spp. (n=7-train=200)	0.01	0.14	0.01
Decapoda-non brachyura (larvae) (n=4-train=200)	0.11	0.75	0.19
Fritillaria spp. (n=3-train=200)	0.02	1.00	0.03
Oikopleura spp. (n=2-train=200)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=200)	0.00	1.00	0.00
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
Calanus spp. (n=0-train=200)	-	-	-
Labidocera spp. (n=0-train=200)	-	-	-
Tortanus spp. (n=0-train=200)	-	-	-
macro avg (corr)	0.25	0.40	0.22
weighted avg	0.70	0.38	0.41
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample



Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

