

Use of SCN features: Yes
Max learning objects: Maximum objects/class
Strategy N° 10

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, NO Zooplankton classes in learning set

Confusion Matrix - In percent of Actual Value

Classification Report Matrix
max available learning objects per class

Actual Values

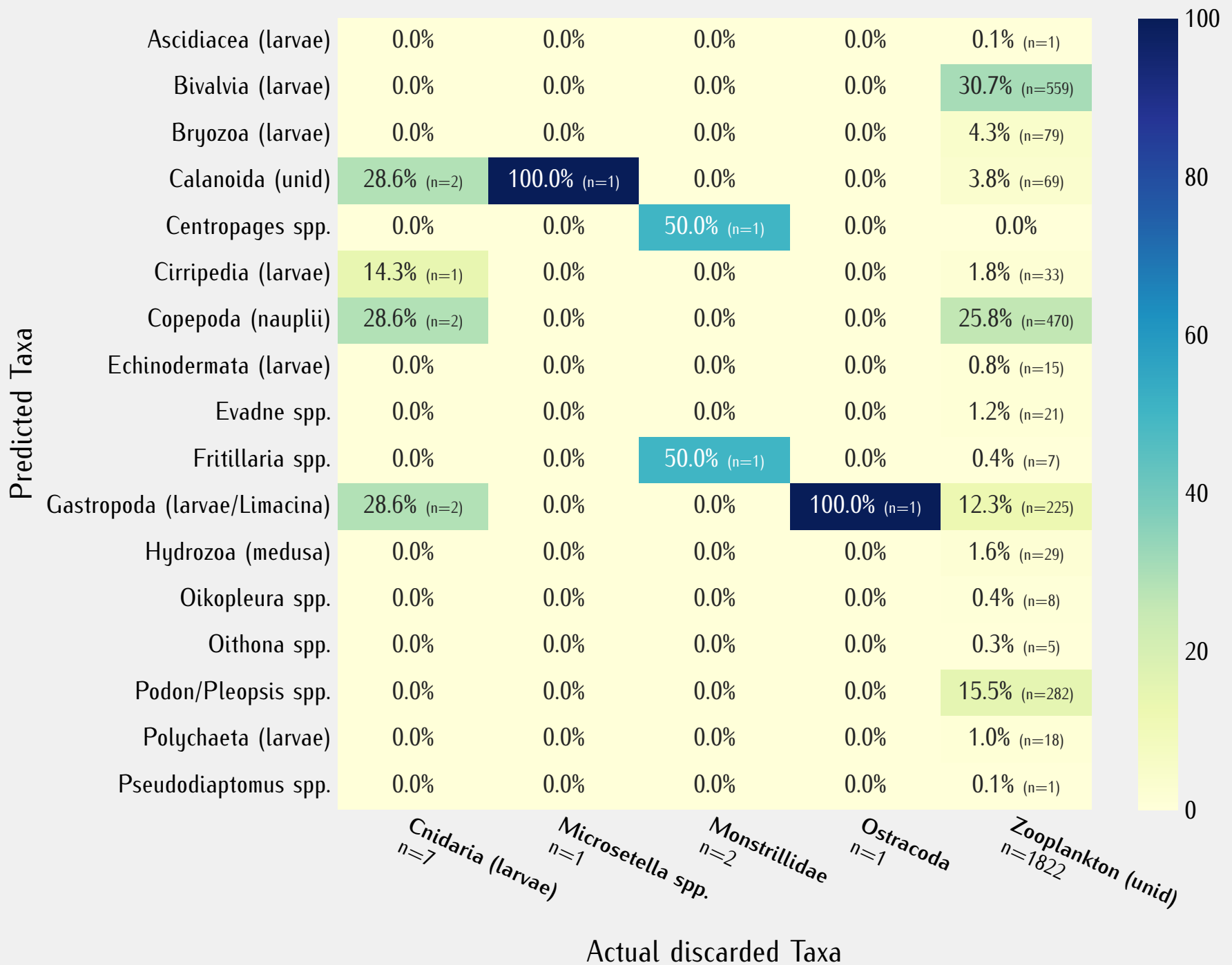
Acartia spp.	60%		20%	<1%	<1%	14%	<1%	<1%	<1%		<1%	<1%	<1%	<1%	<1%	<1%	<1%	1%	<1%		<1%	<1%	<1%	<1%	<1%				
Bivalvia (larvae)		93%	<1%	1%	<1%		<1%	<1%	<1%	3%		<1%	<1%	<1%				<1%	<1%				<1%	<1%					
Calanoida (unid)	4%	<1%	63%	5%	2%	8%	2%	5%	<1%	<1%	<1%	<1%	<1%	<1%		2%	<1%	<1%	5%	4%		<1%	<1%	<1%	<1%				
Copepoda (nauplii)		1%	<1%	93%	1%	<1%				<1%		<1%	<1%			1%	<1%			1%			<1%	<1%					
Podon/Pleopsis spp.	<1%	4%	<1%	14%	67%	<1%			<1%	9%	<1%	2%	<1%						<1%	<1%			<1%						
Oithona spp.	2%		16%	<1%	<1%	75%	<1%	1%				<1%	<1%		<1%	1%	<1%	<1%	2%			1%	<1%						
Calanoida (ci-ciui)	<1%		68%	3%	3%	6%	2%	3%		<1%		<1%	<1%		<1%	2%	<1%	7%	5%			<1%	<1%						
Pseudodiaptomus spp.	6%		23%	2%	<1%	17%	1%	42%		<1%		<1%	<1%		<1%	<1%	<1%	2%	4%		<1%				<1%	<1%			
Hydrozoa (medusa)	2%	3%	2%	<1%	7%	<1%	<1%		69%	5%	<1%	<1%	<1%			<1%		<1%	7%	<1%		<1%	1%		<1%				
Gastropoda (larvae/Limacina)	<1%	13%	1%	8%	11%	<1%			<1%	64%		<1%	<1%					<1%	<1%										
Temora spp.	8%		18%	2%	<1%	4%	3%	11%			29%		<1%			1%			9%	4%		8%			1%	<1%			
Bryozoa (larvae)		<1%	2%	27%	23%					9%	<1%	36%	2%						<1%				<1%						
Polychaeta (larvae)	<1%		5%	24%	7%	<1%		<1%		<1%	<1%		37%			2%			5%	14%		<1%		<1%	<1%			<1%	
Ascidacea (larvae)	2%		1%			3%						1%	90%									<1%	<1%	3%					
Harpacticoida- epibenthic	6%		32%	6%		32%	<1%	2%							10%			5%	2%	<1%		2%		2%					
Centropages spp.	57%		2%			20%	5%				5%				9%				2%										
Echinodermata (larvae)			5%	5%	14%			3%								27%			19%	27%									
Cyclopoida (unid)			26%	13%	4%	4%		13%				9%			4%	4%	17%		4%										
Obelia spp. (medusa)	5%		5%		10%	14%			5%								24%	29%	5%				5%						
Evadne spp.			6%					6%										75%	12%										
Cirripedia (larvae)			6%	44%	6%										6%				38%										
Chaetognatha						8%																15%	77%						
Pseudocalanus spp.	71%										14%											14%							
Decapoda-non brachyura (larvae)																							100%						
Fritillaria spp.																							67%	33%					
Oikopleura spp.																							100%						
Osteichthyes (larvae)																								100%					
Paracalanus spp.																									100%				
Eurytemora spp.																										100%			
Decapoda-brachyura (zoeae)																													100%
Acartia spp. Bivalvia (larvae) Calanoida (unid) Copepoda (nauplii) Podon/Pleopsis spp. Oithona spp. Calanoida (ci-ciui) Pseudodiaptomus spp. Hydrozoa (medusa) Gastropoda (larvae/Limacina) Temora spp. Bryozoa (larvae) Polychaeta (larvae) Ascidacea (larvae) Harpacticoida- epibenthic Centropages spp. Echinodermata (larvae) Cyclopoida (unid) Obelia spp. (medusa) Evadne spp. Cirripedia (larvae) Chaetognatha Pseudocalanus spp. Decapoda-non brachyura (larvae) Fritillaria spp. Oikopleura spp. Osteichthyes (larvae) Paracalanus spp. Eurytemora spp. Decapoda-brachyura (zoeae) Calanus spp. Labidocera spp. Tortanus spp.																													

Predicted Values

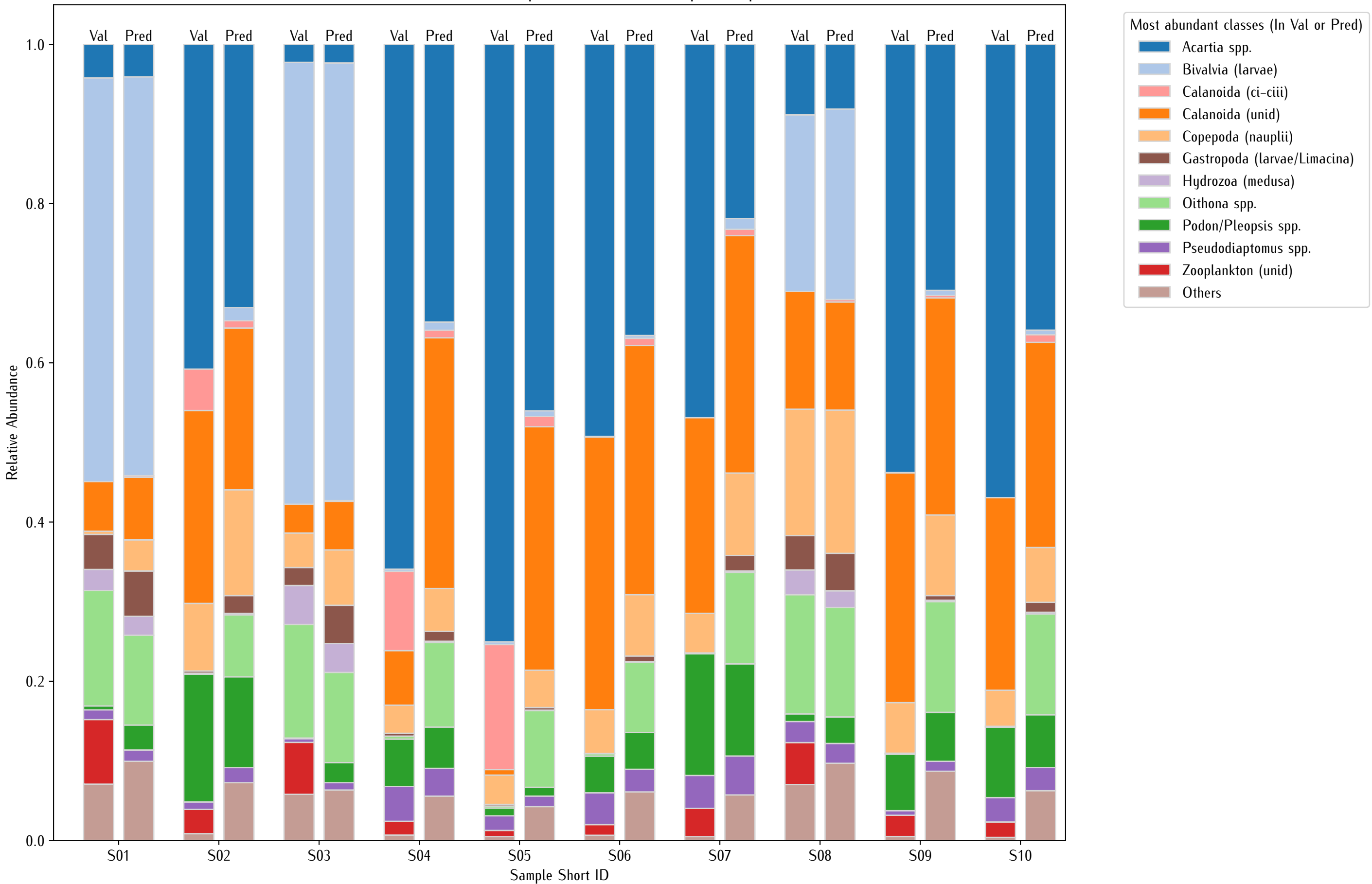
Extra training classes

	precision	recall	f1-score
Acartia spp. (n=18062-train=111319)	0.96	0.60	0.74
Bivalvia (larvae) (n=7955-train=3764)	0.97	0.93	0.95
Calanoida (unid) (n=7711-train=23505)	0.48	0.63	0.54
Copepoda (nauplii) (n=2753-train=11555)	0.69	0.93	0.80
Podon/Pleopsis spp. (n=2715-train=7347)	0.79	0.67	0.73
Oithona spp. (n=2572-train=5881)	0.35	0.75	0.48
Calanoida (ci-ciui) (n=1348-train=5557)	0.08	0.02	0.03
Pseudodiaptomus spp. (n=1059-train=2113)	0.41	0.42	0.42
Hydrozoa (medusa) (n=671-train=4052)	0.88	0.69	0.77
Gastropoda (larvae/Limacina) (n=629-train=3272)	0.40	0.64	0.49
Temora spp. (n=308-train=7347)	0.46	0.29	0.35
Bryozoa (larvae) (n=247-train=1142)	0.40	0.36	0.38
Polychaeta (larvae) (n=237-train=1577)	0.67	0.37	0.48
Ascidacea (larvae) (n=194-train=861)	0.98	0.90	0.94
Harpacticoida- epibenthic (n=108-train=555)	0.20	0.10	0.13
Centropages spp. (n=44-train=3620)	0.06	0.09	0.07
Echinodermata (larvae) (n=37-train=3043)	0.03	0.27	0.06
Cyclopoida (unid) (n=23-train=143)	0.07	0.17	0.10
Obelia spp. (medusa) (n=21-train=1003)	0.36	0.24	0.29
Evadne spp. (n=16-train=11064)	0.01	0.75	0.03
Cirripedia (larvae) (n=16-train=7685)	0.01	0.38	0.02
Chaetognatha (n=13-train=89)	0.00	0.00	0.00
Pseudocalanus spp. (n=7-train=4845)	0.01	0.14	0.03
Decapoda-non brachyura (larvae) (n=4-train=423)	0.57	1.00	0.73
Fritillaria spp. (n=3-train=6992)	0.02	0.67	0.04
Oikopleura spp. (n=2-train=5305)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=1619)	0.00	0.00	0.00
Eurytemora spp. (n=1-train=1818)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=628)	0.00	0.00	0.00
Calanus spp. (n=0-train=359)	-	-	-
Labidocera spp. (n=0-train=493)	-	-	-
Tortanus spp. (n=0-train=203)	-	-	-
macro avg (corr)	0.33	0.40	0.32
weighted avg	0.76	0.67	0.69
	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)

