

Use of SCN features: No
Max learning objects: Maximum 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

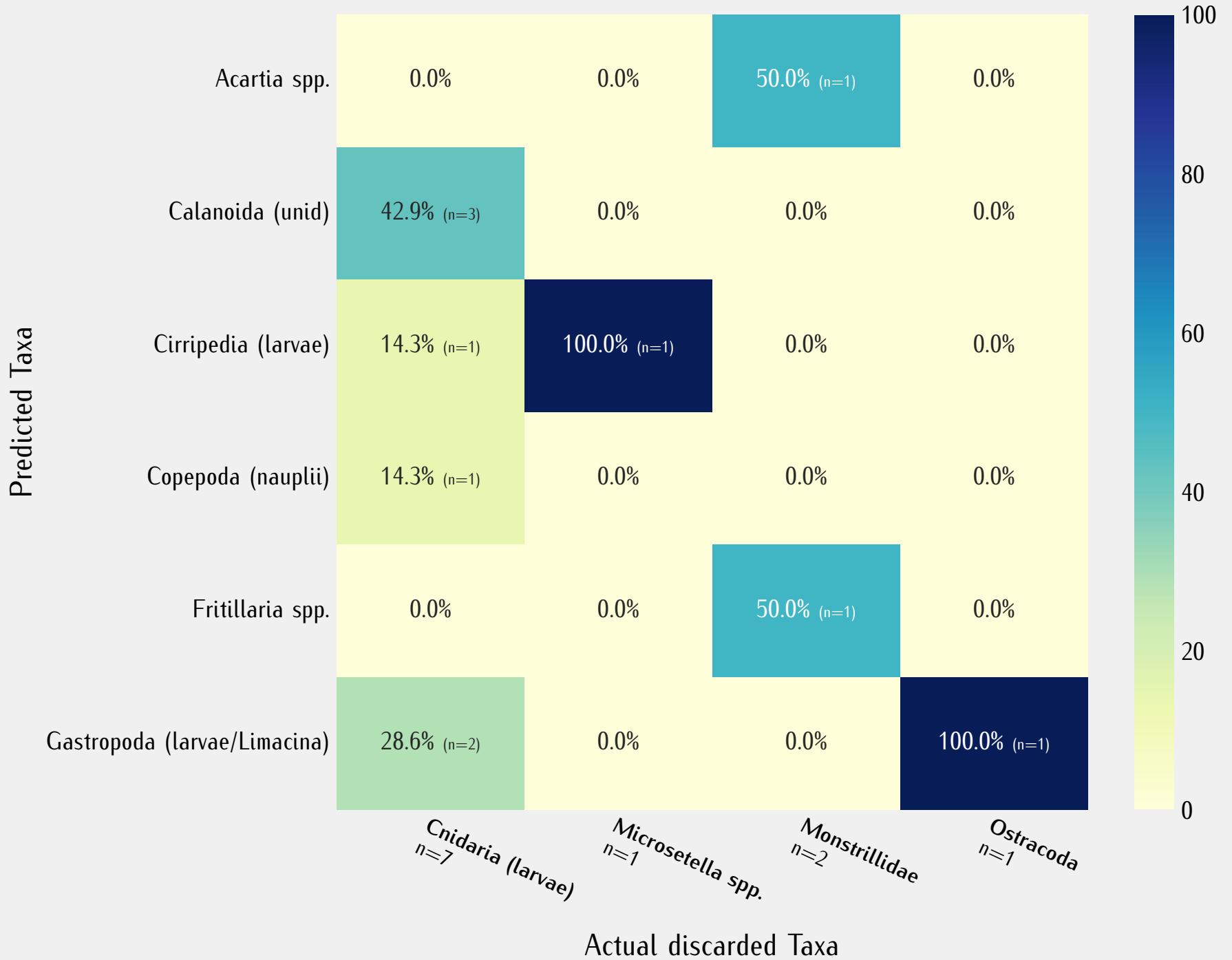
Classification Report Matrix
max available learning objects per class

Actual Values

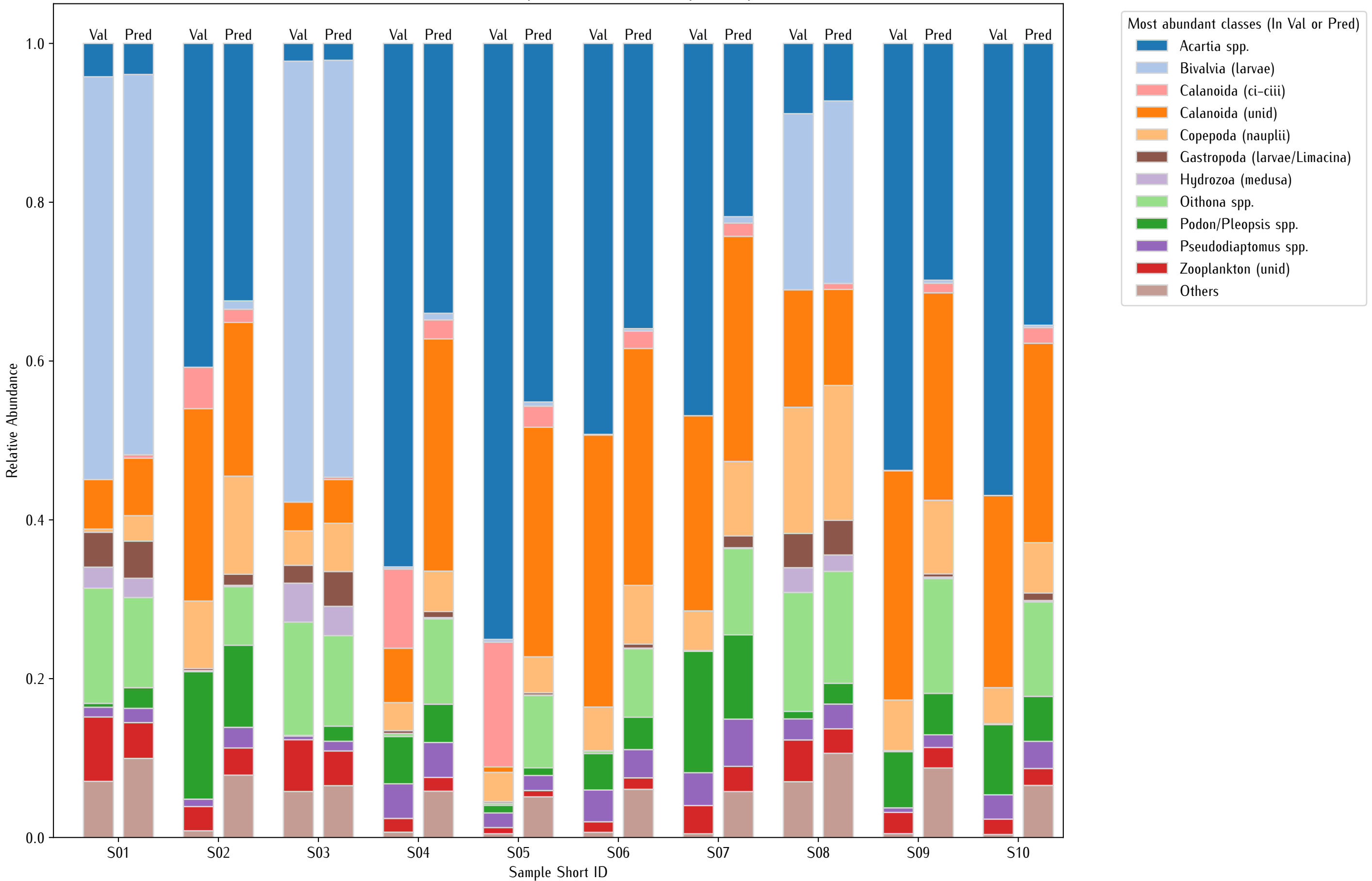
	Acartia spp.	Bivalvia (larvae)	Calanoida (unid)	Copepoda (nauplii)	Podon/Pleopsis spp.	Oithona spp.	Zooplankton (unid)	Calanoida (ci-ciii)	Pseudodiaptomus spp.	Hydrozoa (medusa)	Gastropoda (larvae/Limacina)	Temora spp.	Bryozoa (larvae)	Polychaeta (larvae)	Ascidiaacea (larvae)	Harpacticoida- epibenthic	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)	
	59%	91%	59%	92%	63%	76%	33%	61%	19%	68%	62%	27%	43%	44%	89%		50%							43%								
	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	4%	<1%	4%	4%	4%	3%	3%	6%	<1%	7%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	1%	14%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	18%	3%	19%	10%	<1%	<1%	<1%	<1%	<1%	7%	4%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	<1%	61%	3%	2%	6%	2%	5%	4%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	4%	19%	1%	<1%	15%	<1%	3%	50%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	1%	2%	2%	<1%	7%	<1%	2%	<1%	68%	4%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	<1%	12%	<1%	6%	11%	<1%	5%	<1%	1%	62%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	7%	16%	2%	<1%	3%	<1%	5%	13%	<1%	27%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	<1%	<1%	2%	22%	18%	7%	<1%	<1%	5%	43%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	<1%	4%	20%	5%	<1%	2%	<1%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	1%	1%	1%	2%	<1%	<1%	<1%	<1%	2%	89%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	5%	25%	4%	30%	5%	4%	<1%	<1%	16%	<1%	6%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
	50%	2%	27%	2%	5%	11%	2%	5%	11%	2%	30%	16%	30%	26%	19%	19%	5%	69%	12%	67%	33%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
		3%	5%	11%	3%	3%	13%	13%	13%	26%	19%	19%	5%	6%	8%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
	5%	5%	5%	19%	5%	10%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%	6%
		12%																														
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Classification Report Matrix			max available learning objects per class		
			precision	recall	f1-score
Actual Values	Acartia spp. (n=18062-train=111319)		0.96	0.59	0.73
	Bivalvia (larvae) (n=7955-train=3764)		0.93	0.91	0.92
	Calanoida (unid) (n=7711-train=23505)		0.47	0.59	0.52
	Copepoda (nauplii) (n=2753-train=11555)		0.66	0.92	0.77
	Podon/Pleopsis spp. (n=2715-train=7347)		0.75	0.63	0.68
	Oithona spp. (n=2572-train=5881)		0.36	0.76	0.49
	Zooplankton (unid) (n=1822-train=6498)		0.44	0.33	0.38
	Calanoida (ci-ciui) (n=1348-train=5557)		0.10	0.05	0.07
	Pseudodiaptomus spp. (n=1059-train=2113)		0.38	0.50	0.43
	Hydrozoa (medusa) (n=671-train=4052)		0.83	0.68	0.75
	Gastropoda (larvae/Limacina) (n=629-train=3272)		0.38	0.62	0.47
	Temora spp. (n=308-train=7347)		0.40	0.27	0.32
	Bryozoa (larvae) (n=247-train=1142)		0.33	0.43	0.37
	Polychaeta (larvae) (n=237-train=1577)		0.59	0.44	0.50
	Ascidiaacea (larvae) (n=194-train=861)		0.96	0.89	0.92
	Harpacticoida- epibenthic (n=108-train=555)		0.17	0.16	0.16
	Centropages spp. (n=44-train=3620)		0.05	0.11	0.07
	Echinodermata (larvae) (n=37-train=3043)		0.03	0.30	0.06
	Cyclopoida (unid) (n=23-train=143)		0.07	0.26	0.11
	Obelia spp. (medusa) (n=21-train=1003)		0.22	0.19	0.21
	Evadne spp. (n=16-train=11064)		0.01	0.69	0.03
	Cirripedia (larvae) (n=16-train=7685)		0.01	0.31	0.01
	Chaetognatha (n=13-train=89)		1.00	0.08	0.14
	Pseudocalanus spp. (n=7-train=4845)		0.01	0.14	0.02
	Decapoda-non brachyura (larvae) (n=4-train=423)		0.57	1.00	0.73
	Fritillaria spp. (n=3-train=6992)		0.02	0.67	0.03
	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)		0.10	1.00	0.18
	Calanus spp. (n=0-train=359)		-	-	-
	Labidocera spp. (n=0-train=493)		-	-	-
	Tortanus spp. (n=0-train=203)		-	-	-
	macro avg (corr)		0.35	0.44	0.33
	weighted avg		0.74	0.64	0.67
			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)

