

Use of SCN features: No
Max learning objects: 200 objects/class
Strategy N° 11

Gulf Selected Samples prediction using Gulf training set,
Learning with all classes present in the selected samples, with extra 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

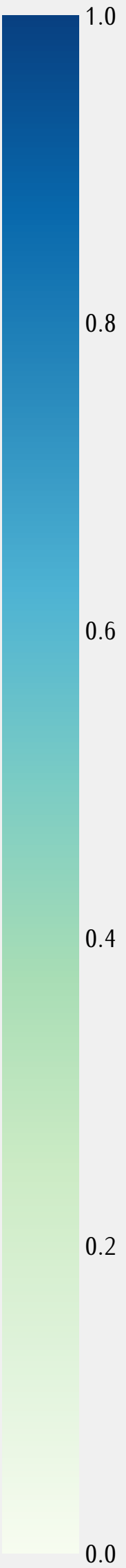
Actual Values

	Acartia spp.	18%	8%	<1%	<1%	29%	<1%	4%	5%	<1%	<1%	2%	<1%	<1%	<1%	4%	1%	<1%	<1%	<1%	2%	<1%	3%	<1%	<1%	<1%	<1%		3%	<1%	14%	<1%		<1%		4%	
	Bivalvia (larvae)		90%	<1%	<1%	<1%	<1%	<1%	1%	5%		<1%	<1%	<1%	<1%		<1%	<1%		<1%	<1%		<1%	<1%							<1%						
	Calanoida (unid)	<1%	<1%	6%	3%	<1%	12%	<1%	30%	12%	<1%	<1%	4%	<1%	<1%	8%	<1%	5%	5%	<1%	2%	5%	<1%	<1%		2%	<1%		<1%	<1%	<1%	<1%	<1%	<1%	<1%		
	Copepoda (nauplii)		2%		78%	<1%		2%	<1%	<1%		<1%		5%	3%		<1%		3%	3%		2%				<1%						<1%					
	Podon/Pleopsis spp.		5%	<1%	13%	45%	<1%	3%	<1%	<1%	2%	12%	<1%	9%	4%		<1%		<1%	4%	<1%			<1%	<1%		<1%		<1%	<1%	<1%				<1%		
	Oithona spp.	<1%		2%	<1%	<1%	69%		6%	6%			<1%		<1%	9%		2%	3%		<1%	1%		<1%		1%		<1%		<1%	<1%			<1%	<1%		
	Zooplankton (unid)		29%	<1%	15%	6%	<1%	13%	2%	<1%	3%	9%	<1%	15%	2%	<1%	<1%		1%	<1%		2%	<1%		<1%	<1%		<1%		<1%							
	Calanoida (ci-ciii)			5%	2%	1%	8%	<1%	34%	10%	<1%	<1%		4%	<1%		11%		4%	6%		4%	8%		<1%	2%						<1%					
	Pseudodiaptomus spp.	<1%		1%	<1%	<1%	15%		12%	37%		<1%	<1%	<1%			16%	<1%	4%	6%		<1%	2%		<1%	<1%	<1%			<1%		2%			<1%		
	Hydrozoa (medusa)		2%	<1%		4%	1%	<1%		<1%	66%	7%	<1%	3%	<1%		<1%	<1%	<1%	4%	1%	5%		<1%		<1%			<1%	<1%	<1%		<1%	<1%	<1%		
Gastropoda (larvae/Limacina)			15%		7%	9%		3%	<1%		2%	53%		3%	2%		<1%				1%	<1%		<1%	1%			<1%									
	Temora spp.	<1%		2%	<1%	<1%	1%		7%	13%			19%	4%			4%	6%	4%	4%		2%	7%		6%	<1%				6%	<1%	5%	<1%	4%	<1%		
	Bryozoa (larvae)		<1%		15%	13%	<1%	4%	<1%			5%		56%	2%		<1%			2%		<1%				<1%		<1%		<1%							
	Polychaeta (larvae)	<1%	<1%	1%	14%	4%	<1%	<1%	3%	1%		<1%		1%	48%		1%	7%	<1%	<1%	5%	5%			<1%	2%				<1%		<1%					
	Ascidacea (larvae)	<1%				2%			<1%				<1%		90%	2%							<1%			<1%				4%							
	Harpacticoida- epibenthic	<1%			2%		10%		12%	5%			<1%	4%			44%		<1%	12%		<1%	<1%		<1%	<1%	<1%			<1%		2%		<1%			
	Centropages spp.	20%					39%			2%				11%			2%	11%						7%						<1%		2%		5%			
	Echinodermata (larvae)				3%	3%	3%		8%	3%				3%	3%				30%			24%	16%			3%									3%		
	Cyclopoida (unid)				9%						4%		9%				17%	4%	52%													4%					
	Obelia spp. (medusa)			5%			24%				10%						5%			19%	5%	29%												5%			
	Cirripedia (larvae)				31%	6%								12%				25%			25%																
	Evadne spp.											12%						6%			6%	62%							6%		6%						
	Chaetognatha					8%									8%					8%			46%			8%	8%				15%						
	Pseudocalanus spp.	29%										14%											29%							14%			14%				
	Cnidaria (larvae)				29%			29%												14%				29%													
Decapoda-non brachyura (larvae)																										50%				25%				25%			
	Fritillaria spp.					33%																					67%										
	Oikopleura spp.							50%																		50%											
	Monstrillidae																										100%										
	Ostracoda									100%																											
	Paracalanus spp.																												100%								
	Osteichthyes (larvae)																																	100%			
	Eurytemora spp.										100%																										
Decapoda-brachyura (zoeae)																																		100%			
	Microsetella spp.								100%																												
		Acartia spp.	Bivalvia (larvae)	Calanoida (larvae)	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)	Ascidacea (larvae)	Harpacticoida (larvae)	Centropages spp.	Echinodermata (larvae)	Cyclopoida (unid)	Obelia spp. (medusa)	Cirripedia (larvae)	Evadne spp.	Chaetognatha	Pseudocalanus spp.	Cnidaria (larvae)	Decapoda-non brachyura (larvae)	Fritillaria spp.	Oikopleura spp.	Monstrillidae	Ostracoda	Paracalanus spp.	Osteichthyes (larvae)	Eurytemora spp.	Decapoda-brachyura (zoeae)	Microsetella spp.	

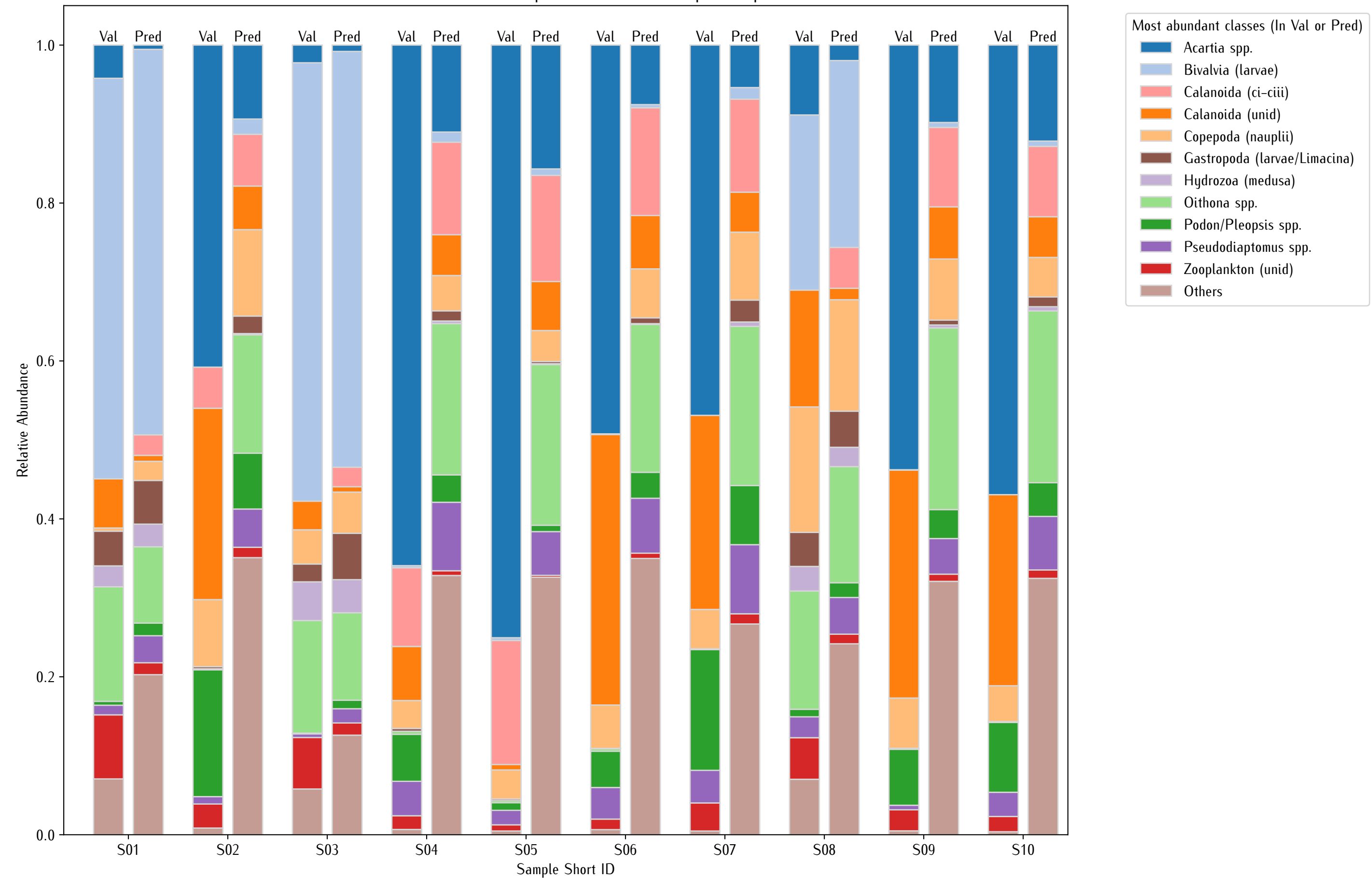
Predicted Values

Extra
training
classes

	precision	recall	f1-score
Acartia spp. (n=18062-train=200)	0.98	0.18	0.30
Bivalvia (larvae) (n=7955-train=200)	0.90	0.90	0.90
Calanoida (unid) (n=7711-train=200)	0.23	0.06	0.10
Copepoda (nauplii) (n=2753-train=200)	0.66	0.78	0.71
Podon/Pleopsis spp. (n=2715-train=200)	0.77	0.45	0.57
Oithona spp. (n=2572-train=200)	0.22	0.69	0.33
Zooplankton (unid) (n=1822-train=200)	0.44	0.13	0.20
Calanoida (ci-ciüi) (n=1348-train=200)	0.12	0.34	0.18
Pseudodiaptomus spp. (n=1059-train=200)	0.15	0.37	0.21
Hydrozoa (medusa) (n=671-train=200)	0.65	0.66	0.66
Gastropoda (larvae/Limacina) (n=629-train=200)	0.25	0.53	0.34
Temora spp. (n=308-train=200)	0.14	0.19	0.16
Bryozoa (larvae) (n=247-train=200)	0.11	0.56	0.18
Polychaeta (larvae) (n=237-train=200)	0.28	0.48	0.35
Ascidiaacea (larvae) (n=194-train=200)	0.63	0.90	0.74
Harpacticoida- epibenthic (n=108-train=200)	0.02	0.44	0.04
Centropages spp. (n=44-train=200)	0.02	0.11	0.03
Echinodermata (larvae) (n=37-train=118)	0.01	0.30	0.03
Cyclopoida (unid) (n=23-train=64)	0.01	0.52	0.03
Obelia spp. (medusa) (n=21-train=200)	0.03	0.19	0.05
Cirripedia (larvae) (n=16-train=200)	0.01	0.25	0.02
Evadne spp. (n=16-train=200)	0.01	0.62	0.02
Chaetognatha (n=13-train=18)	0.46	0.46	0.46
Pseudocalanus spp. (n=7-train=200)	0.00	0.29	0.01
Cnidaria (larvae) (n=7-train=20)	0.03	0.29	0.06
Decapoda-non brachyura (larvae) (n=4-train=197)	0.06	0.50	0.11
Fritillaria spp. (n=3-train=200)	0.00	0.67	0.01
Oikopleura spp. (n=2-train=37)	0.00	0.00	0.00
Monstrillidae (n=2-train=27)	0.09	1.00	0.16
Ostracoda (n=1-train=1)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=82)	0.00	1.00	0.00
Osteichthyes (larvae) (n=1-train=43)	0.00	0.00	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
Microsetella spp. (n=1-train=4)	0.00	0.00	0.00
Calanus spp. (n=0-train=109)	-	-	-
Labidocera spp. (n=0-train=200)	-	-	-
Tortanus spp. (n=0-train=111)	-	-	-
macro avg (corr)	0.21	0.40	0.20
weighted avg	0.68	0.38	0.40
	precision	recall	f1-score



Relative Abundance of Top Taxonomic Instances per Sample



Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

