Use of SCN features: No

Max learning objects: Maximum objects/class Strategy N° 9

Actual Values

## Gulf Selected Samples prediction using Gulf training set, Learning with all classes present in the selected samples, with extra training categories, With Calanoida, Cyclopoida, NO Zooplankton classes in learning set

Confusion Matrix In normant of Actual Value

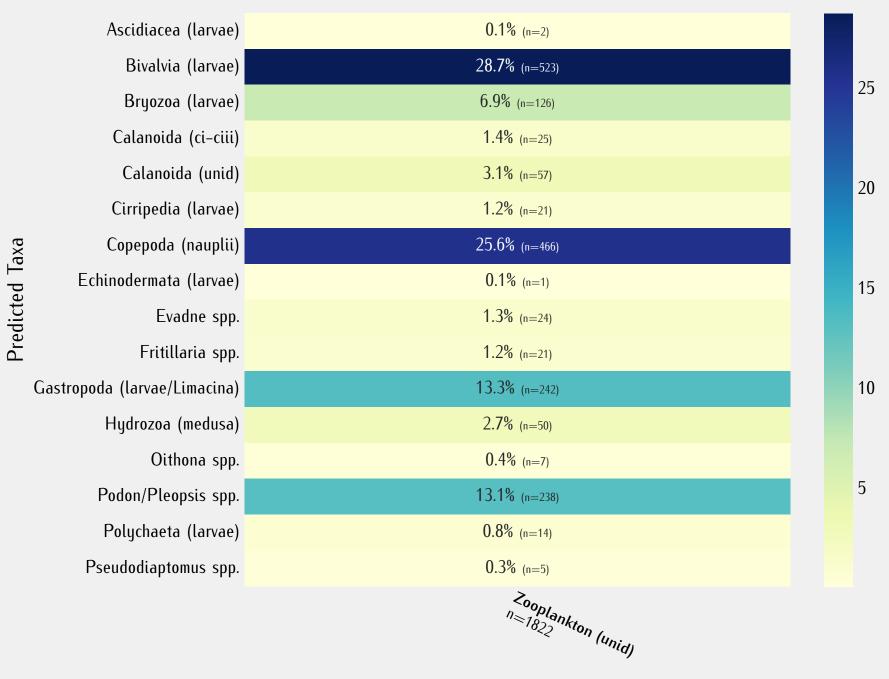
Classification Report Matrix max available learning objects per class

precision recall

f1-score

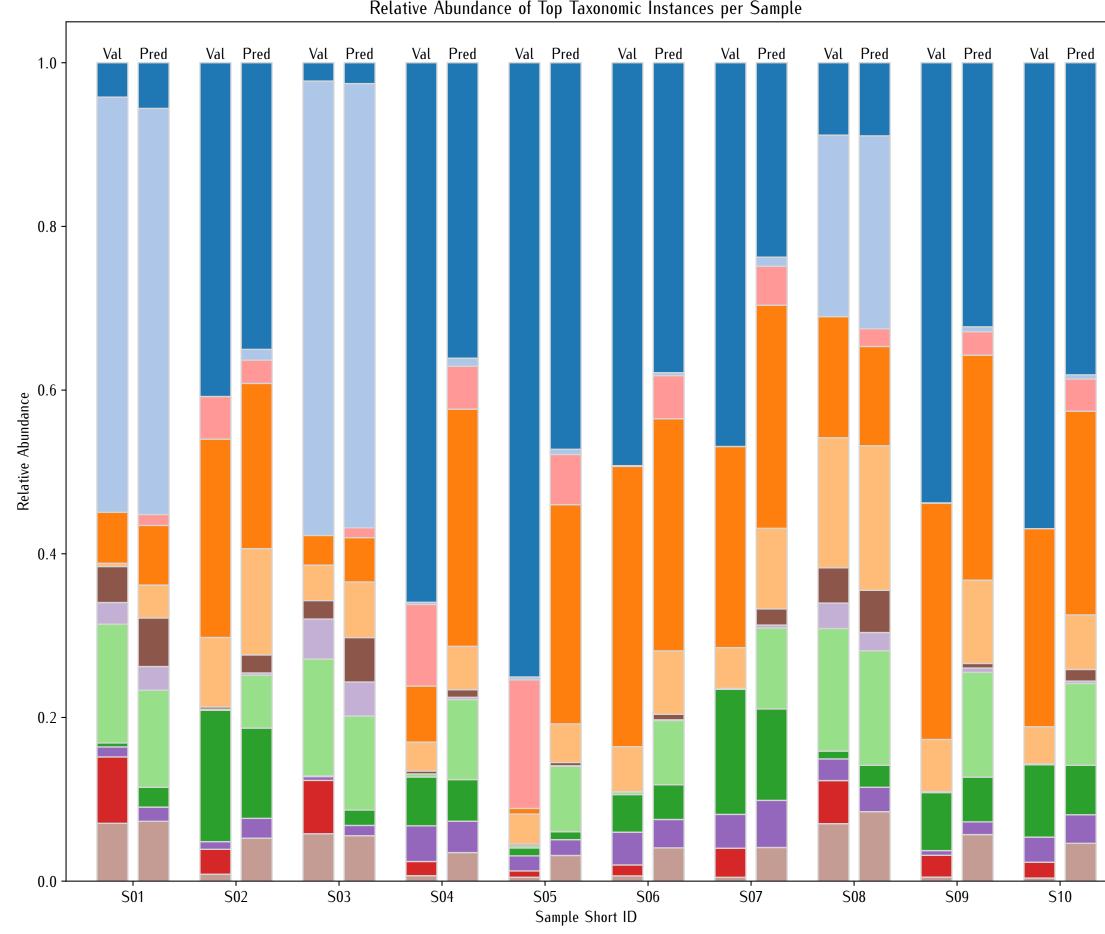
	Confusion Matrix – In percent of Actual Value													max available learning objects per class											
															precision	recall	f1-score								
Acartia spp.	63%	209	<1%	<1% 12%	% 2% 1	% <1% <1	% <1%		<1% <1% <	1% <1	% <1% 1%			<1%	<1%		<1%	<	1%		Acartia spp (n=18062-train=101461)		0.63	0.76	
Bivalvia (larvae)		92% <1	% 1% -	<1% <1%	% <1% <	1% <1% 4%	<	<1% <1%	<1%	<1	% <1%	<1%			<1%						Bivalvia (larvae (n=7955-train=3574	0.97	0.92	0.95	
Calanoida (unid)	4%	<1% 56%	4%	1% 8%	12%	<1% <1% <1	% <1%	1% <1%	<1%   <1%   <1	1% <1% <1	% 4%	<1%			1%			<	1%		Calanoida (unid (n=7711-train=23505	0.45	0.56	0.50	
Copepoda (nauplii)		1% <1	% 94%	1% <1	% <1% <	1% <1	%	<1% <1%		<1%	<1%	<1%			<1%						(n=7711-tratin=23303) <b>Copepoda (nauplii</b> (n=2753-train=10297)		0.94	0.81	
Podon/Pleopsis spp.	<1%	3% <1	% 13%	67% <1	% <1%	2% 8%	<1%	3% <1%	<	1%	2%	1%		<1%							(n=2753-train=10297) Podon/Pleopsis spp				
Oithona spp.	2%	139	<1%	<1% 77%	% 2% 2	2% <1%			<1%	<1	% <1%	<1%			1%						(n=2715-train=3541) Oithona spp	0.03	0.67	0.75	
Calanoida (ci-ciii)	<1%	569	8 3%	<1% 7%	18% 3	3% <1% <1	%	1%	<1%	<1% <1	% 7%	<1%			1%						(n=2572-train=4428)	0.59	0.77	0.52	1 0
Pseudodiaptomus spp.	6%	219	8 2%	159	% 5% 4	9% <1	% <1% <	<1%	<1%	<1	% 2%	<1%						<	1%		Calanoida (ci-ciii) (n=1348-train=1531)	0.13	0.18	0.16	1.0
Hydrozoa (medusa)	3%	2% 4%		6% <1	%	71% 7%	<	<1%			1% 4%				<1%						Pseudodiaptomus spp (n=1059-train=2113)		0.49	0.44	
Gastropoda (larvae/Limacina)	<1%	13% <1	% 7%	10% <1	% <1%	1% 669	<	<1%			<1%	<1%									<b>Hydrozoa (medusa</b> ) (n=671-train=3730	0.77	0.71	0.74	
Temora spp.	19%	20%	8 2%	<1% 4%	3% 1	3% <1	% 22% <	<1%	5:	%	8%	<1%					<1%	<	1%		Gastropoda (larvae/Limacina) (n=629-train=2871)	0.38	0.66	0.48	
Bryozoa (larvae)	<1%	<1% 2%	23%	15%	<1% <	1% 9%	4	19% <1%							<1%						Temora spp	0.57	0.22	0.32	
Polychaeta (larvae)	<1%	3%	20%	5% <1	% 4% 2	!% 1%	<	<1% 46%		<1	% <1% 10%	2%		<1%	2%	<1%	<1%				(n=308-train=2199) <b>Bryozoa (larvae</b> )	0.34	0.49	0.40	0.8
Ascidiacea (larvae)	3%	<1	%	3%	ś <	1%			91%						1%	2%					(n=247-train=973) <b>Polychaeta (larvae</b> )	0.75	0.46	0.57	0.0
Harpacticoida- epibenthic	6%	29%	4%	30%	% 5% 4	%	2%		14%	4%	Ś				5%						(n=237-train=464 <b>Ascidiacea (larvae</b>	0.73			
Centropages spp.	66%	5%		169	% 2	2%			11	%											(n=194-train=805) Harpacticoida- epibenthic	0.90	0.91	0.94	
Echinodermata (larvae)	3%	8%	5 5%	8% 3%	16%	9%	3	3%		8%	32%	8%			3%						(n=108-train=372)	0.14	0.14	0.14	
Cyclopoida (unid)		179	8 9%	4%	5 1	3% 4%	; (	9%	9%	309	%							4%			Centropages spp (n=44-train=3461)	0.04	0.11	0.06	
Obelia spp. (medusa)	10%	109	6	149	%	10%					29% 29%										Echinodermata (larvae) (n=37-train=118		0.08	0.12	0.6
Evadne spp.	6%	6%	i			6%		6%			69%	6%									<b>Cyclopoida (unid</b> ) (n=23-train=64	0.11	0.30	0.17	0.0
Cirripedia (larvae)		6%	50%			6%		6%				31%									Obelia spp. (medusa) (n=21-train=952)	0.20	0.29	0.29	
Chaetognatha	8%								23%				15%		31%	23%					Evadne spp	0.01	0.69	0.03	
Cnidaria (larvae)		149	% 29%		29%	149	б					14%									(n=16-train=7238) Cirripedia (larvae)	0.03	0.31	0.06	
Pseudocalanus spp.	86%								14	%											(n=16-train=716) <b>Chaetognatha</b>	1.00	0.15		
Decapoda-non brachyura (larvae)														50%		25%			25%	ó	(n=13-train=18 Cnidaria (larvae	1.00		0.27	0.4
Fritillaria spp.															100%						(n=7-train=20)  Pseudocalanus spp	0.00	0.00	0.00	
Oikopleura spp.															100%						(n=7-train=228)	0.00	0.00	0.00	
Monstrillidae	100%																				Decapoda-non brachyura (larvae) (n=4-train=197)	0.23	0.50	0.33	
Osteichthyes (larvae)																100%					Fritillaria spp (n=3-train=2701	0.01	1.00	0.03	
Ostracoda						100	%														Oikopleura spp (n=2-train=37		0.00	0.00	
Paracalanus spp.																		10	0%		Monstrillidae (n=2-train=27)	0.00	0.00	0.00	0.2
Decapoda-brachyura (zoeae)																			100	%	Osteichthyes (larvae	0.10	1.00	0.18	
Microsetella spp.		100	%																		(n=1-train=43) <b>Ostracod</b> a	0.00	0.00	0.00	
Eurytemora spp.	100%																				(n=1-train=1) Paracalanus spp		0.00	0.00	
	ACOLY	Bival Ca	Yan Cope	Podon/Pla Oda (naupli)	the Colar	Sey Hydr Co	Str Peno.	Bryo Poly	Ascidio Harp	ant Chip G	Cho Obeli Chan	Cirrin	Chap Chia	Sell Dec	Aritill Oik	Monster	OSTA PARA DEC	Micro	Ury Colon Col	bid Porto.	(n=1-train=82) Decapoda-brachyura (zoeae)				
	′ζ	Birdhia Spp. (16	Toida (	Oda (D) Pl	thong Spp.	Scudodiaptonus (ci-ciii)	(poda)	Bryozog (lar	Ascidiacea Maria	opages loder	Clopoida (Unid)  (Nata (Unid)  (Nata (Unid)		Chaetognath edia (lanae)	Pseudocalanda (larvae)	Odd Darids	Monstrillidae	Ostracoda Decensional de la Proposición de la Pr	DOUN Sel	Urytemora Sp.	hidocera spp.	(n=1-train=277) Microsetella spp	0.00	0.00	0.00	
			de de	id) Olphi		Cii, Onus	Tedisol (19)	Trae.	de lander	es cois	la (lanid)	medy	(drap)	a Nacy	US SPD Brag	%	Mary .	Spp. Och	The Sp.		(n=1-train=4)		0.00	0.00	0.0
				,	λ,		<i>'\p</i> , '	Bryozoa (lar. Sp. Sp. Chae/Linacine		entropages Spp.	· AR	'd'			. (	Monstrillidae  Moleura Spp.  Myura (lanae)	*9)		Urytemora Sp.		Eurytemora spp (n=1-train=1730)		0.00	0.00	
								J.	<b>)</b>							(Ande)			<b>*</b> e)		Calanus spp (n=0-train=109)	_	_	-	
																				Extra training	<b>Labidocera spp</b> (n=0-train=493	_	-	-	
										Pred	icted Value	es								classes	Tortanus spp (n=0-train=111)		_	-	
																					macro avg (corr		0.39	0.29	
																					weighted avg		0.68	0.70	
																					weighted avg	0.70	0.00	0.70	

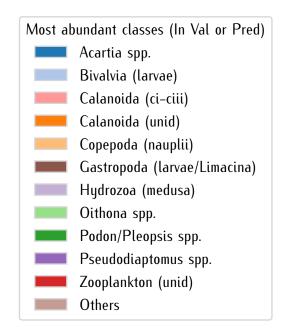
## Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample





Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

