Use of SCN features: Yes

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

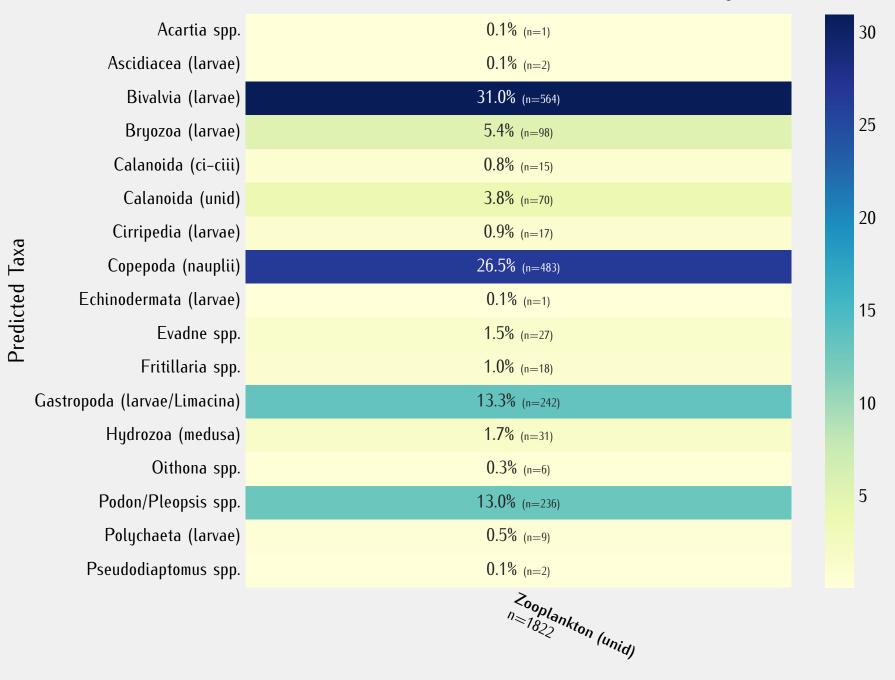
Classification Report Matrix
max available learning objects per class

precision recall

f1-score

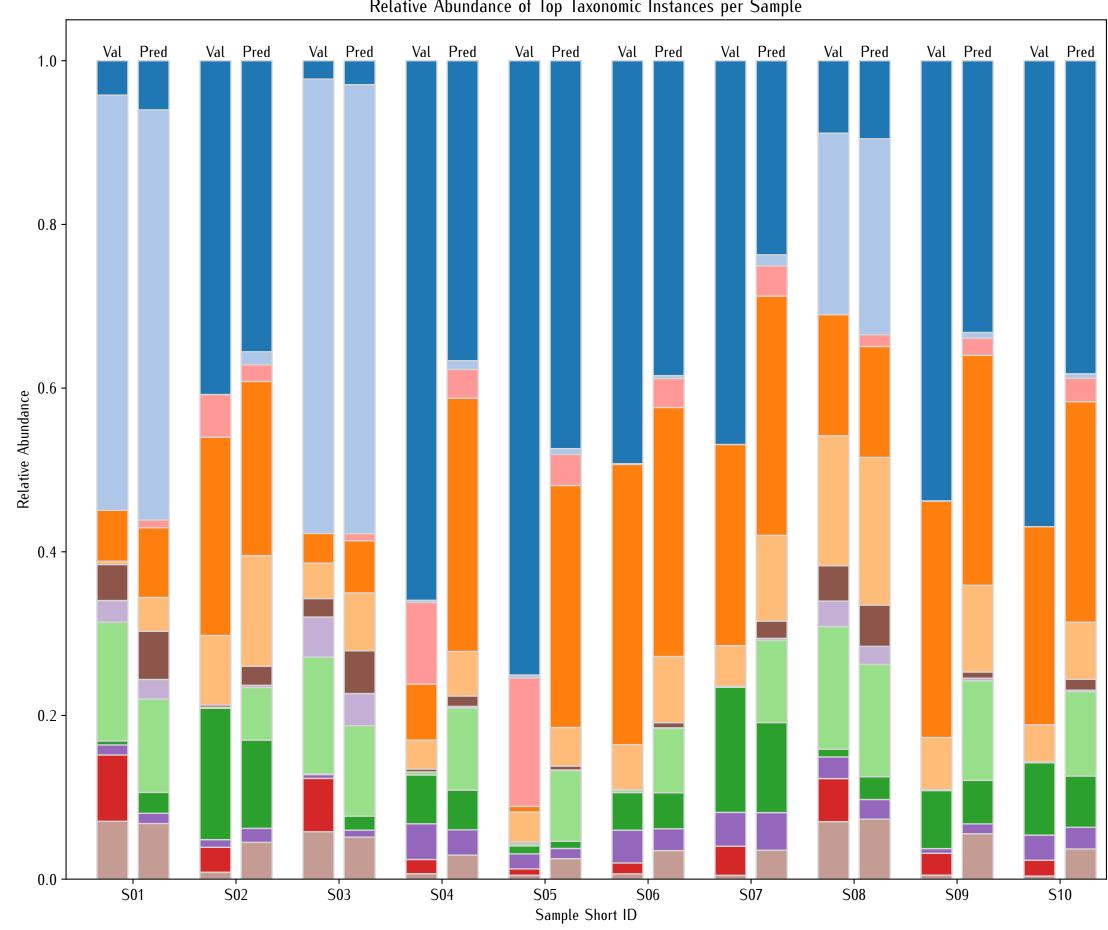
	Confusion Matrix – In percent of Actual Value														max available learning objects per class											
																precisior	n recall	f1-score								
Acartia spp. 64%	20%	<b>1</b> %	<1% 1	2% <	1% <1% <	<1% <1%	<1%	<1	% <1%	<1%	<1% <1%	6 1%			<1	%			<	<1% <1%		Acartia spp (n=18062-train=101461	0.94	0.64	0.76	
Bivalvia (larvae)	93% <19	% 1%	<1% <	(1% <	1% <1% <	(1%) 4%	<19	<1	%		<1%	<1%	<1%		<1	%						Bivalvia (larvae (n=7955-train=3574	0.97	0.93	0.95	
Calanoida (unid) 5%	<1% 61%	5%	1% 7	7% 8	% 5% <	<1% <1%	<1% <19	% <1% <1	% <1%		<1% <1%	6 5%	<1%		1%	ó						Calanoida (unic	0.46	0.61	0.52	
Copepoda (nauplii)	1% <19	% 95%	1% <	<1%	1% <1%	<1%	<19	% <1%		<1%		<1%	<1%		<1	%						(n=7711-train=23505 <b>Copepoda (naupli</b>	0.60	0.95	0.80	
Podon/Pleopsis spp. <1%	% 3% <19	% 14%	66% <	(1%	1%	1% 9%	<1% 2%	<1%				2%	<1%		<1%			<	<1%			(n=2753-train=10297 Podon/Pleopsis spp		_	_	
Oithona spp. 3%	17%	% <1%	<1% 7	4% 2	% 1%			<1%	<1%		<1%	<1%	<1%		1%	ó						(n=2715-train=3547 <b>Oithona sp</b>	) 0.05	0.66	0.74	
Calanoida (ci-ciii) <1%	64%	4%	1%	6% 11	1% 2% <	<1% <1%	<19	6	<1%			7%	<1%		1%	ó						(n=2572-train=4428	) 0.30	0.74	0.51	1
Pseudodiaptomus spp. 7%	27%	8 2%	1	5% 5	% 40%		<19	6	<1%		<1%	2%										<b>Calanoida (ci-cii</b> (n=1348-train=1531	) 0.13	0.11	0.12	1.0
Hydrozoa (medusa) 3%	2% 5%	<1%	5% <	(1%	7	2% 6%					1%	5%	<1%		<1	%						Pseudodiaptomus spp (n=1059-train=2113	0.43	0.40	0.42	
Gastropoda (larvae/Limacina) <1%	% 13% <1 <sup>9</sup>	% 8%	10% <	(1% <	1% <	(1% 65%	<1% <19	6				1%	<1%									<b>Hydrozoa (medusa</b> (n=671-train=3730	0.85	0.72	0.78	
Temora spp. 26%	6 21%	8 2%	<1% 3	3% 4	% 10%	<1%	17% <19	6		5%		9%	<1%									Gastropoda (larvae/Limacina (n=629-train=2871	0.27	0.65	0.47	
Bryozoa (larvae) <1%	% <1% 3%	27%	19%	<	1% <1%	10%	38%	<1%				<1%			<1	%						Temora sp	0.72	0.17	0.27	
Polychaeta (larvae) 1%	5%	22%	5% <	(1% 2	% <1%	2%	<19	43%			<1%	10%	2%		<1% 3%	ó	<1%	<	<1%			(n=308-train=2199 <b>Bryozoa (larva</b> e	) 0.29	0.38	0.38	0.1
Ascidiacea (larvae) 3%	1%	i	3	3%				929	%						<1	%	<1%					(n=247-train=973 Polychaeta (larvae	)			0.8
Harpacticoida- epibenthic 7%	31%	6%	3	4% 6	% <1%		<1% <19	6	6%		<1%	<1%			5%	ó						(n=237-train=464 Ascidiacea (larvae	0.03	0.43	0.57	
Centropages spp. 66%	7%	i	1	6%						11%												(n=194-train=805	0.90	0.92	0.95	
Echinodermata (larvae) 3%	11%	14%	8%	14	1% 3%					3%		41%			5%	ó						Harpacticoida- epibenthi (n=108-train=372	0.14	0.06	0.09	
Cyclopoida (unid)	22%	% 13%	4	1% 4	% 13%	4%	4%		9%		17%				9%							<b>Centropages spp</b> (n=44-train=3461	0.05	0.11	0.07	
Obelia spp. (medusa) 10%	6 14%	%	1	4%	1	4%					24%	24%										Echinodermata (larvae (n=37-train=118	) 0.20	0.03	0.05	0.4
Evadne spp.	6%	j										88%	6%									Cyclopoida (unic (n=23-train=64	0.14	0.17	0.15	0.0
Cirripedia (larvae)	6%	50%				6%						П	38%									Obelia spp. (medusa	0.21	0.24	0.27	
Chaetognatha 15%	б		3	3%				8%	5				8%		319	% 8%	23%					(n=21-train=952 Evadne spp	) 0.02	0.88	0.03	
Cnidaria (larvae)	14%	8 29%	14%	14	1%								14%	14%								(n=16-train=7238 Cirripedia (larvae	)			
Pseudocalanus spp. 1009	%																					(n=16-train=716 <b>Chaetognath</b>	) 0.05	0.38	0.09	
Decapoda-non brachyura (larvae)															75%					25%	í	(n=13-train=18	)	0.08	0.14	0
Fritillaria spp.															100	)%						Cnidaria (larvae (n=7-train=20	) 1.00	0.14	0.25	0.
Oikopleura spp.															100	)%						Pseudocalanus spp (n=7-train=228	0.00	0.00	0.00	
Monstrillidae 50%	б									50%												Decapoda-non brachyura (larvae (n=4-train=197	0.33	0.75	0.46	
Osteichthyes (larvae)																	100%					Fritillaria spr (n=3-train=2701	0.02	1.00	0.03	
Ostracoda						100%																Oikopleura spp (n=2-train=37	. 0.00	0.00	0.00	
Paracalanus spp. 1009	%																					Monstrillida	0.00	0.00	0.00	0.2
Decapoda-brachyura (zoeae)																				100%	%	(n=2-train=27 Osteichthyes (larvae	) ) <sub>0.17</sub>	1.00	0.29	
Microsetella spp.	1009	%																				(n=1-train=43 <b>Ostracod</b>	)			
Eurytemora spp. 1009	%																					(n=1-train=1 Paracalanus spp	) 0.00	0.00	0.00	
Aco	Biver Cal	10. Cop.	Pode	Oith (	ala Ser	Hydr Cas	Tem Bro	Poly As	Cir Har	Cenx Cop.	(ye) Ob	y. Char	Cirry Ch	Onia P	Sel Dec M	itil Oik	Mon Osto	Ostr Dar	Dec Vica	Curu Cala Cab	Six Torza	(n=1-train=82 Decapoda-brachyura (zoeae	) 0.00	0.00	0.00	
	Bivalvia (A)	Lanoida (U)	Podon/F	oleo.	alanoida (ci. c. spp.	Hydrozoa (1) Hidrozoa (1) Hidromus Si Hilli)	TOPONO SP	Polychaele	Cidiacea (la Nac)	Cticoj do de	Cyclopoida Spp. (la)		Ciripedia (nedusa)	Petognatha (larvae)	Scudocalanus Sp.	Maria She	Monstrillidae	Ostracoda Change	Decapoda brace	Curytemora Sp.	Sidocera Spp. Spp.	(n=1-train=277	0.00	0.00	0.00	
	<b>7</b> .	120/14	nid nary	Vij,	20. 10°.	Conus .	Pedys (land	· Mae	(larvage)	Track Spir	Spp. 10/10/10	(unid)	medi.	larvae)	drae nus	Ton Pp.	Shi de	" Slan	Spp. Oral	My Sp. Sp.	o. 2 <sup>00</sup> 20	Microsetella spp (n=1-train=4	0.00	0.00	0.00	0.0
				9	. <b>%</b>	, X		Polychaeld (larvae)  Alimacina)	シ	Centropages Orae) Chil	Cyclopoida Spp. Car	lan)	30)		Selidocalanus sp.	· Chyu	Ita .	de		Curytemora Sp.  Myura (2000e)		Eurytemora spp (n=1-train=1730	0.00	0.00	0.00	
								(na)			C						(larap)			de		Calanus spp (n=0-train=109	) <b>.</b>	_	-	
																	ツ				Extra training	Labidocera spp (n=0-train=493	) <b>.</b>	_	-	
										Р	redicted	Value	es .								classes	Tortanus sp	) <b>.</b>	_	_	
																						(n=0-train=111 macro avg (corr		0.39	0.30	
																								0.68	0.70	
																						weighted av	0.70	0.00	0.70	

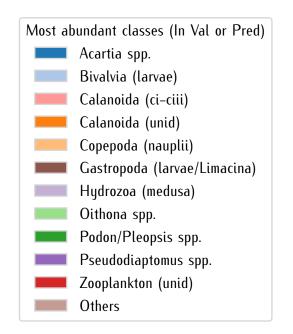
## Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample





Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

