Use of SCN features: No

Max learning objects: 20000 objects/class Strategy N° 9

Actual Values

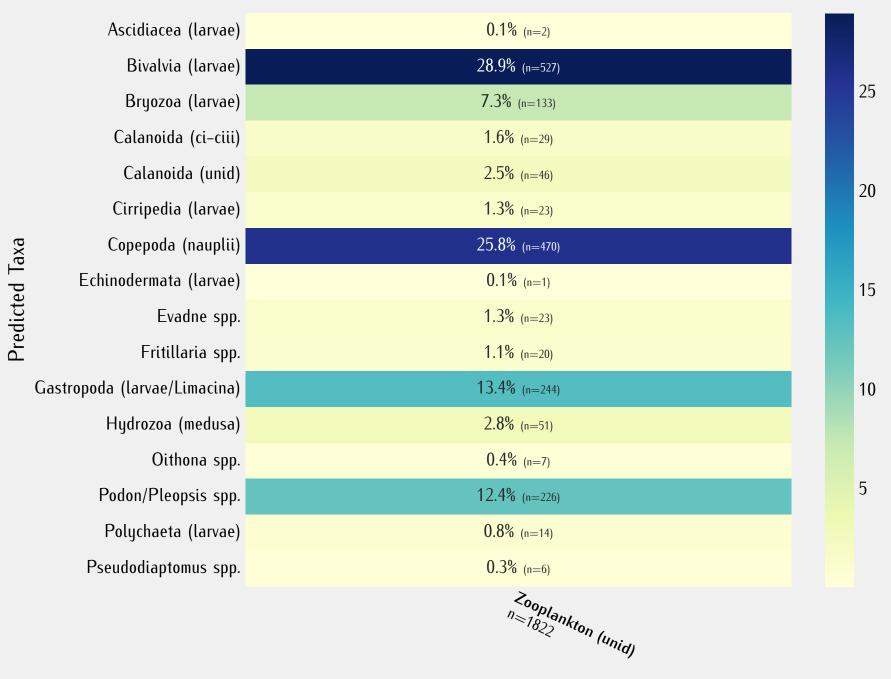
## Gulf Selected Samples prediction using Gulf training set, Learning with all classes present in the selected samples, with extra training categories, With Calanoida, Cyclopoida, NO Zooplankton classes in learning set

Classification Report Matrix max 20000 Jeanning objects per class

precision recall f1-score

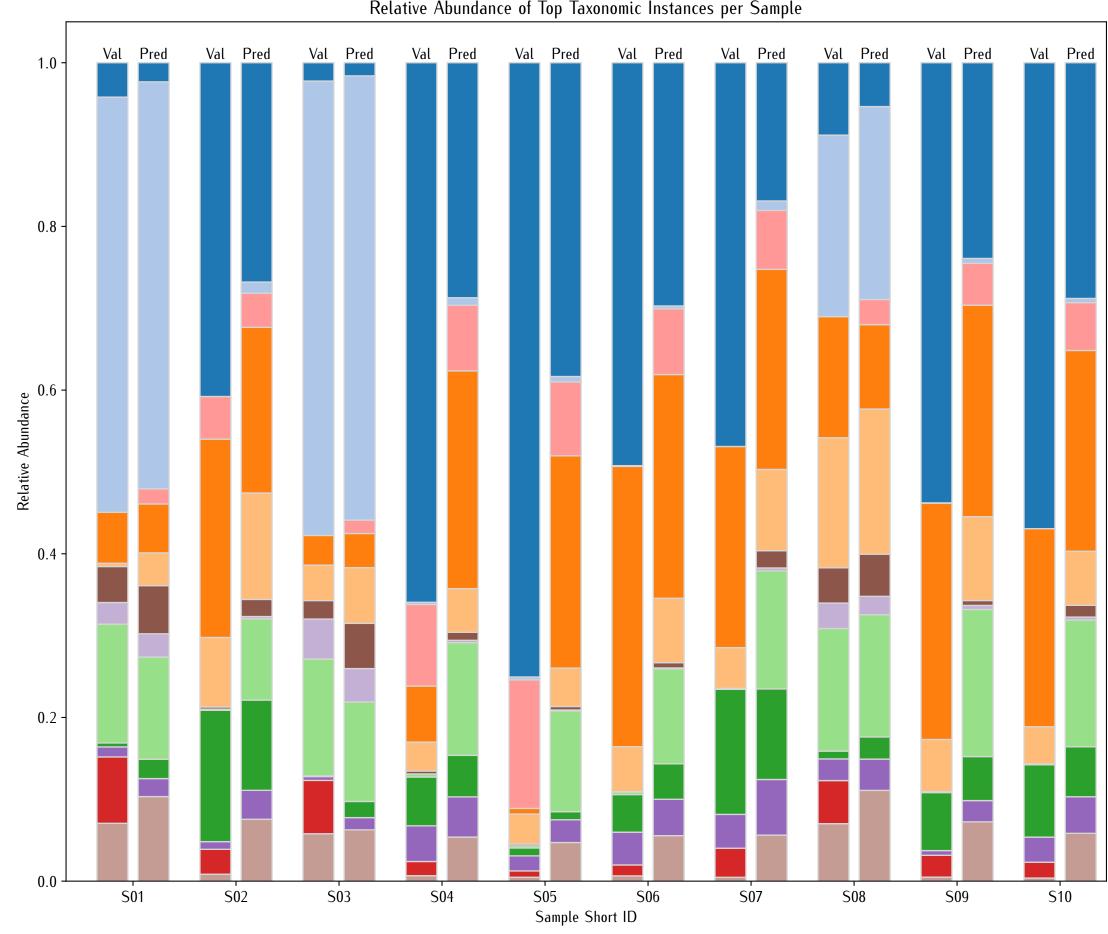
	Confusion Matrix – In percent of Actual Value														ma	ax 20000 learning objects per class															
													•														_	precision	recall	f1-score	
Acartia spp.	49%	23	<1%	<1%	18%	3% 2%	<1% <1%	<1%	<1%	<1%	<1% 2%	<1%	<1%	1% <1%	á	<1%	<1% <1%	ó		<	<1% <1%	1	% <1% <	<1%		<b>Acartia</b> (n=18062-train=2	spp.	0.97	0.49	0.65	
Bivalvia (larvae)		92% <1	1% 1%	<1%	<1%	<1% <1%	<1% 4%		<1% <1%	% <1%		<1%	<	<1% <1%	ó		<19	б								Bivalvia (la (n=7955-train=	rvae)	0.97	0.92	0.95	
Calanoida (unid)	2%	<1% 46	5%	1%	10%	18% 8%	<1% <1%	<1%	1% <19	% <1%	<1% <1%	<1% <1%	<1%	5% <1%	á		1%		<19	%		<	1%			Calanoida (	unid)	0.40	0.46	0.43	
Copepoda (nauplii)		<1% <1	1% 94%	1%	<1%	<1% <1%	<1%		<1% <1%	%		<1%	<	<1% <1%	á		<19	ó								(n=7711-train=2 <b>Copepoda (na</b>		0.71	0.94	0.81	
Podon/Pleopsis spp.		3% <1	1% 13%	67%	<1%	<1%	2% 8%	<1%	3% <19	%	<1%			2% 1%			<1%									Copepoda (na (n=2753-train=1 Podon/Pleopsis					
Oithona spp.	<1%	99	% <1%	6 <1%	80%	3% 2%				<1%	1%	<1% <1%	<	<1% <1%	5		1%	<1%								(n=2715-train=	3541)	0.85	0.67	0.75	
Calanoida (ci-ciii)	<1%	44	% 4%	1%	8%	25% 5%	<1% <1%		1%		2%	<1% <1%		8% 1%			<19	ó								<b>Oithona</b> (n=2572-train=	4428)	0.31	0.80	0.45	
Pseudodiaptomus spp.	3%	15	5% 2%		17%	6% 53%	<1%	<1%	<1%		<1%	<1%		3% <1%	á	<1%						<	1%			Calanoida (ci (n=1348-train=		0.14	0.25	0.18	1.0
Hydrozoa (medusa)	1%	2% 49	%	6%	<1%		70% 7%	<1%	<1% <19	%	<1%		2%	5% <1%	á		<19	б								Pseudodiaptomus (n=1059-train=		0.33	0.53	0.40	
Gastropoda (larvae/Limacina)				10%	<1%	<1%	2% 65%		<1%				<	<1% <1%	á											H <b>ydrozoa (med</b> (n=671-train=	dusa)	0.78	0.70	0.74	
Temora spp.						5% 14%	<1%	32%			8%			10% <1%						<	<1% <1%	2	% <	<1%		Gastropoda (larvae/Lima	cina)	0.38	0.65	0.48	
Bryozoa (larvae)		<1% 29				<1% <1%			47% <19	%				<1% <1%			<19	6								(n=629-train= <b>Temora</b>					
Polychaeta (larvae)						4% 2%			<1% 46%			<1%		10% 2%			<1% 2%		<19	%	<1%					(n=308-train= <b>Bryozoa (la</b>	2199)	0.32	0.32	0.32	
Ascidiacea (larvae)		29			2%	<1%				93%			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				1%		2%							(n=247-train=	=973)	0.32	0.47	0.38	0.8
Harpacticoida- epibenthic			% 5%			9% 6%		3%	<1%	33 0	18%	3%		2%			<1% 4%		20				1%			<b>Polychaeta (la</b> (n=237-train=	=464)	0.74	0.46	0.57	
Centropages spp.		59			27%	3.0 0.0		11%			14%			2,0			170 170						%			<b>Ascidiacea (la</b> (n=194-train=	rvae) =805)	0.93	0.93	0.93	
Echinodermata (larvae)	11/0		% 8%			24% 3%		1170	3%	,	1 1/0	3%		30% 8%			5%						70	2	<u>%</u>	Harpacticoida- epibe (n=108-train=	nthic	0.11	0.18	0.14	
,									9%	)	00/			0/0			J/0					4%		3	<u></u>	Centropages	spp.	0.02	0.14	0.03	
Cyclopoida (unid)			9%			4% 13%			9%		9%	30%	2204	20.								4%				(n=44-train= Echinodermata (la	rvae)	0.07	0.03	0.04	
Obelia spp. (medusa)		10			14%		10%		<b>C</b> 0.				33%													(n=37-train= <b>Cyclopoida (</b>					0.6
Evadne spp.		12					6%		6%					69% 6%												(n=23-train	1=64	0.12	0.30	0.17	
Cirripedia (larvae)		69	50%				6%		6%					31%												Obelia spp. (med (n=21-train=	=952)	0.19	0.33	0.25	
Chaetognatha					8%					23%			8%		15%		23%	6	23%	ó						<b>Evadne</b> (n=16-train=		0.01	0.69	0.02	
Cnidaria (larvae)			29%			29%	29%							14%												<b>Cirripedia (la</b> (n=16-train=		0.03	0.31	0.06	
Pseudocalanus spp.	43%					14%		29%			14%															Chaetogr	natha	1.00	0.15	0.27	
Decapoda-non brachyura (larvae)																	50%		25%	б				25%		(n=13-trair <b>Cnidaria (la</b>	rvae)	0.00	0.00	0.00	0.4
Fritillaria spp.																	1009	%								(n=7-trair <b>Pseudocalanus</b>	,				
Oikopleura spp.																	1009	%								(n=7-train= Decapoda-non brachyura (la	=228)	0.00	0.00	0.00	
Monstrillidae											50%							5	50%							(n=4-train=	=197)	0.20	0.50	0.29	
Osteichthyes (larvae)																							1	00%		Fritillaria (n=3-train=	2701)	0.01	1.00	0.03	
Ostracoda							1009	5																		<b>Oikopleura</b> (n=2-trair		0.00	0.00	0.00	
Paracalanus spp.																						10	0%			<b>Monstril</b> (n=2-trair	lidae	1.00	0.50	0.67	0.2
Decapoda-brachyura (zoeae)																							1	00%		Osteichthyes (la	rvae)	0.00	0.00	0.00	
Microsetella spp.		100	0%																							(n=1-trair <b>Ostra</b>	coda	0.00	0.00	0.00	
Eurytemora spp.								100%																		(n=1-trai Paracalanus					
	Acar	Biver C	3/2, C/2	Pode	Oith	Cala Se	Hydr Cas	i Temo	Bryo Pol	Lu Scie	Har Cen	Chi Go	Obel.	Char Cin	Chap Ch	Did Sel	Dec Ani	. Oit	Mon Os	To: Ost	Para Dec	Mich	Curus Color	(ab)	Dry.	1 . 1	1=82	0.00	0.00	0.00	
	· A	Bivalvia (	Toida .	Podoli, (na	Please	Calanoida (	Alydrozoa (Ci. Ciii)	Topodo	Bryotog (16)	SCHOOLS	Harpacticoil	topages Spp.  epibenthi	Obelia Opoida (4).	Exadre Sp. (nedu	Chaetogna (larvae)	Pidaria (lan	Decapoda, Sp.		Monstrilling	Teichthyes (	Paracalanus (Anos	Dolla Sel	Curytemora Sp.	Spp.	Pranus Spp.	(n=1-train=	=277)	0.00	0.00	0.00	
		75.	They	Unid) no	Upling.		Ci Ciii) Mus	nedis !	Jong.	Tracy 1	Arvan Arvan		12/12/14	id) medi	(ANDO	na ar	(30) 11/5 Sp.	101 Pp.	20		dr.	Spp. Orach		<i>y</i> .	200 00	Microsetella (n=1-tra		0.00	0.00	0.00	0.0
					9	<i>√</i> 0.	, ,	% Y	Bryozoa (le Nanae/Linaco	).•	シ ツ	Chinoderno Cycle Chinoderno Chinoderno Cycles Spp.	100	<b>Y</b>	الم		Decapoda, focalanus sp.	Chyl.	Via Via		des		Calantienora Sp. Sura (Socae)			Eurytemora (n=1-train=		0.00	0.00	0.00	
									Q	(na)		· <i>C</i>							land	,			(de)			Calanus (n=0-train=	spp.	_	_	_	
																			9						Extra training	Labidocera	spp.	_	_	_	
												Predi	cted V	alues											classes	(n=0-train= <b>Tortanus</b>	spp.	_	_	_	
																										(n=0-train=			0.27		
																										macro avg (c		0.32	0.37	0.29	
																										weighted	avg	0.75	0.61	0.64	

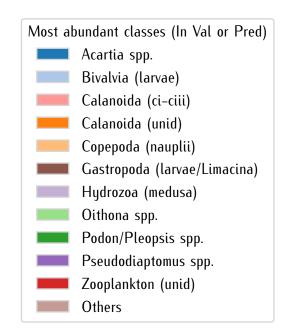
## Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample





Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

