Use of SCN features: No

Actual Values

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

Max learning objects: 5000 objects/class Strategy N° 2

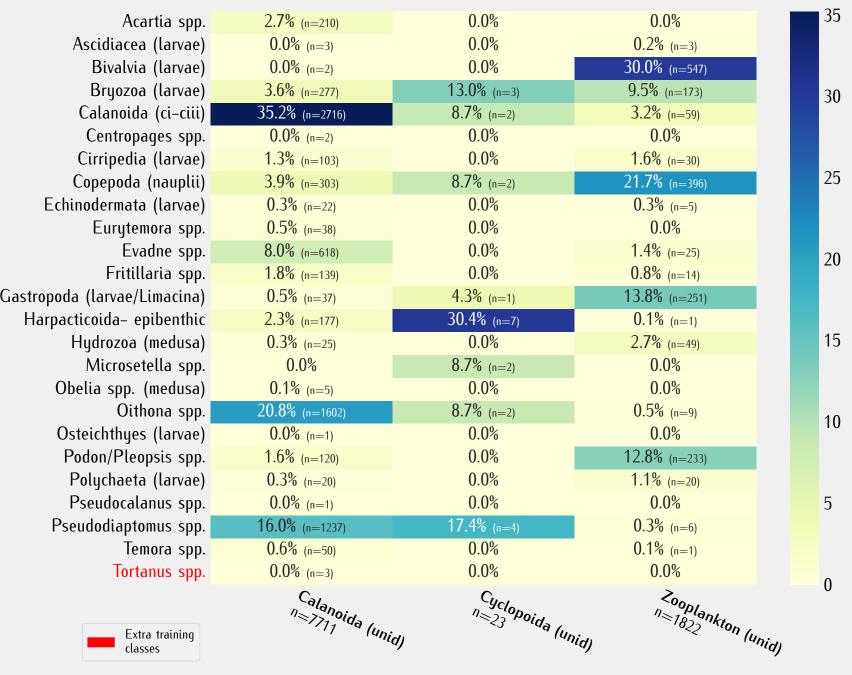
Confusion Matrix In paraget of Actual Value

Classification Report Matrix max 5000 learning objects per class

precision recall f1-score

	Confusion Matrix – In percent of Actual Value													max 5000 learning objects per class																	
																												precisio	on recall	l f1-score	_
Acartia spp.	43%	<1	1% <1 <sup>9</sup>	8 29%	5%	5%	<1% <	(1% 3	3% <1%	s <1%	<1%	1% 2	2% <1	1% <1%	3%	<1%	<1	1%	<1% <1	<1% <1% ·	<1% <1%		<1%	7%	6 <1 <sup>9</sup>	<1%	<b>Acartia spp</b> (n=18062-train=5000)		0.43	0.60	
Bivalvia (larvae)	9	3% <1	<1 <sup>9</sup>	<1%	<1%	<1%	<1% 4	4%	<1%	5	<1%		<	1%	<1%	% <1%			<1	(1%							<b>Bivalvia (larvae)</b> (n=7955-train=3574)		0.93	0.95	
Copepoda (nauplii)	1	1% 92	% 1%	<1%	1%	<1%	<	<1%	1%	<1%			<	1%	<1%	% 1%			<1	(1%							Copepoda (nauplii) (n=2753-train=5000)	0.80	0.92	0.85	
Podon/Pleopsis spp.	3	3% 12	% 67%	<1%	<1%	<1%	2% {	8% <	<1% 4%	<1%		<1% <	.1%		2%	2%			<1% <1	.1%				<1	%	<1%	Podon/Pleopsis spp (n=2715-train=3541)	. 0.87	0.67	0.76	
Oithona spp.	<1%	<1	% <19	82%	7%	4%	<1%	<	<1% <1%	í	<1%	3%	<1	1%	1%	<1%			19	1%				<1%			Oithona spp	. 0.27	0.82	0.40	
Calanoida (ci-ciii)	<1%	3%	% 2%	16%	41%	13%	<1% <	<1%	4%	<1%		5%	<1	1%	11%	6 2%			<1	(1%							(n=2572-train=4428) Calanoida (ci-ciii)	N 31	0.41	_	
Pseudodiaptomus spp.	1%	29	% <1 <sup>9</sup>	19%	11%	58%	<	<1% <	<1% <1%	í		2% <	.1%		3%	<1%	<1	1%						1%	б		(n=1348-train=1531) Pseudodiaptomus spp				1.0
Hydrozoa (medusa)	1% 2	2%	5%	1%		<1%	73%	7% <	<1% <1%	i <1%		<	.1% <	1% 2%	6%	<1%			<1	(1%				<1	%		(n=1059-train=2113) Hydrozoa (medusa)	0.32	0.58	0.41	
Gastropoda (larvae/Limacina)	1.	3% 7%	10%	<1%	<1%	<1%	1% 6	6%	<1%	5					<1%	% <1%											(n=671-train=3730)	0.77	0.73	0.75	
Temora spp.	2%	29	% 1%	5%	7%	18%	<	(1% 3	33% 2%			}	8% <1	1%	12%	<1%	<1	1% <1%			<1%		<1%	6%	б	<1%	Gastropoda (larvae/Limacina) (n=629-train=2871)	0.39	0.66	0.49	
Bryozoa (larvae)	<	(1% 20	% 16%	<1%	<1%		•	9% <	<1% 50%	1%		<1%				<1%			<1	(1%							<b>Temora spp</b> (n=308-train=2199)		0.33	0.22	
Polychaeta (larvae)	<1%	18	% 5%	<1%	5%	3%	,	1%	<1%	47%			<	1% <1%	ó 11%	2%			<1% 2%	2%	<1%	<1%					<b>Bryozoa (larvae)</b> (n=247-train=973)		0.50	0.40	
Ascidiacea (larvae)	<1%			4%		1%					92%								15	1%		2%					Polychaeta (larvae) (n=237-train=464)	0.74	0.47	0.58	0.8
Harpacticoida- epibenthic		39	%	32%	14%	12%		4	4% 5%			23%			2%				<1% 3%	3%				2%	ó		Ascidiacea (larvae)	0.02	0.92	0.93	
Centropages spp.	27%			32%		2%		1	18%			1	4%				2%	%						5%	ó		(n=194-train=805) Harpacticoida- epibenthic	0.06	0.23		
Echinodermata (larvae)		59	% 5%	3%	22%	3%				3%			11	%	30%	14%			3%	3%						3%	(n=108-train=372) Centropages spp				
Obelia spp. (medusa)	5%			19%			10%					5%		29%	33%	,											(n=44-train=3461) Echinodermata (larvae)	0.02	0.14		
Evadne spp.									12%						75%	6 6%								6%	б		(n=37-train=118)	0.10	0.11	0.10	0.6
Cirripedia (larvae)		44	%		6%		f	6%		6%			6'	%		31%											Obelia spp. (medusa) (n=21-train=952)	0.09	0.29	0.14	
Chaetognatha											23%			8%			15%		31	11%	8%	15%					Evadne spp (n=16-train=5000)		0.75	0.03	
Pseudocalanus spp.	29%					14%		4.	13%			1	4%														Cirripedia (larvae) (n=16-train=716)		0.31	0.06	
Cnidaria (larvae)		29	%		29%		1	4%								14%		14%									Chaetognatha (n=13-train=18)	1.00	0.15	0.27	
Decapoda–non brachyura (larvae)																			50%			25%				25%	Pseudocalanus spp (n=7-train=228)	0.00	0.00	0.00	
Fritillaria spp.																			100	00%							Cnidaria (larvae)	0.50	0.14	0.22	0.4
Oikopleura spp.																			100	00%							(n=7-train=20) Decapoda-non brachyura (larvae)	0.18	0.50	0.27	
Monstrillidae												5	50%								50%						(n=4-train=197) Fritillaria spp				
Decapoda-brachyura (zoeae)																										100%	(n=3-train=2701) Oikopleura spp	0.02	1.00		
Osteichthyes (larvae)																										100%	(n=2-train=37)	0.00	0.00	0.00	
Ostracoda							10	00%																			Monstrillidae (n=2-train=27)	0.55	0.50	0.40	0.2
Paracalanus spp.																								100	)%		Decapoda-brachyura (zoeae) (n=1-train=277)	0.00	0.00	0.00	0.2
Microsetella spp.				100%																							Osteichthyes (larvae) (n=1-train=43)	0.00	0.00	0.00	
Eurytemora spp.								10	00%																		Ostracoda (n=1-train=1)	0.00	0.00	0.00	
	Acar (	Siver Co	Do Pol	Oith	5 6/8	D. Sel	Hyd	Cosx .	Tem Bry	Poly	Ascia	Har	Cenx 6	Chi. Ob	9/. CV	Cirri	Char K	Ser Chia	Joe A	Stitil Oiko	Mon Dec	OSTA	OST POR	Mic Ca	True Col	la labir long	`	0.00	0.00	0.00	
	Acartia	Sivalvia (	Spepoda (	Yon/Pleop	Sona Spp.	Toida (	Klydrożoc Godiaptomu Ciii)	o Topo	20/2 50/2	Polycia land	harta (	Harpaction of Contractions	COICO	Chinoderne Des Spp. Dibenthic	, 500	Adno Spp. (Medusa)	Chaetogno	Allo de	Decapoda Nus Spp.	Maria Sh	Monstrillida	DOUG S	Chippy acody	Microsetel	Trytemora	lanus Spp. Spp.	(n=1-train=82)  Microsetella spp  (n=1-train=4)	. 0.00	0.00	0.00	
		•	nago,	Dauplii)	35.5 D.	10%	City Only	'nedy	'Sal lando	1	res (la	rap, lar	Pal Cx	216	Ta (lar	medu	lando	'U <sub>&amp;</sub> 'U <sub>\</sub> 'Y	is sported	100 brace	1/2 V	ó X	Chyun Carro	500	200	200	(n=1-train=4) Eurytemora spp	)			0.0
					2.			20	Penora Sp. Janae/	inder				Chinoderne Des Spp. Dibenthic	1	المحرب م			, <del>,</del>	Critillaria Spp.	Wa (		Ostracoda Chipyes (larvae)				(n=1-train=1730) Calanus spp	0.00	0.00	0.00	
										<i>"(4)</i>											(Arvae)		<b>%</b> 9/				(n=0-train=109)		-	-	
																<b>\</b>										tr	xtra aining  Labidocera spp (n=0-train=493)	_	-	-	
														Predi	cted	Values	5									cl	asses Tortanus spp (n=0-train=111)	· )	-	-	
																											macro avg (corr)	0.32	0.39	0.29	
																											weighted avg	0.84	0.62	0.67	
																														L (4	

## Predictions of discarded taxa from training



**Predicted Taxa** 

Actual discarded Taxa

