Use of SCN features: Yes

Actual Values

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

## 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

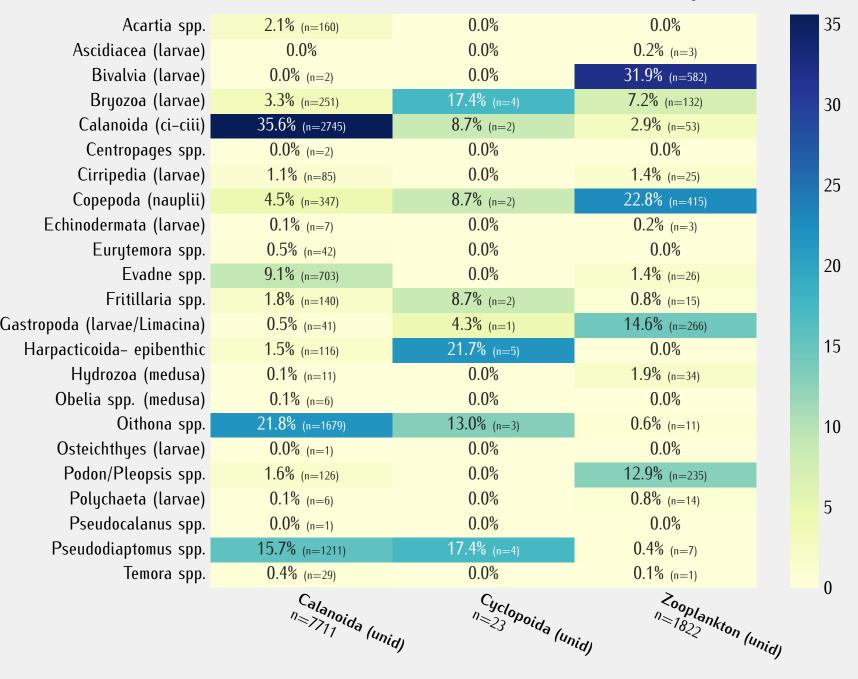
Classification Report Matrix max 5000 learning objects per class

f1-score

precision recall

	Confusion Matrix – In percent of Actual Value														1	nax 5000 l	earning obje	ects per clas	lass										
														•												precision	recall	f1-score	
Acartia spp.	40%	<	1% <	1% 32	2%	5% 5	5% <	1% <15	8 2%	<1% <	1% <1%	<1% 2%	<1% <	1% 4%	6 <1%	<1%	<	1% <1% <1	<1%	1%	<1%	9%		<1%	<b>Acartia spp</b> (n=18062-train=5000)	0.99	0.40	0.57	
Bivalvia (larvae)	9	3% <	1% <	1% <	(1% <	<1% <	1% <	1% 4%		<1%	<1%			<1	% <1%	5		<1%							<b>Bivalvia (larvae</b> ) (n=7955-train=3574	0.97	0.93	0.95	
Copepoda (nauplii)	2	2% 92	2% 1	% <	1%	1% <	1%	<1	б	<1% <	1%		<1%	<1	% 1%			<1%							Copepoda (nauplii) (n=2753-train=5000)	0.70	0.92	0.85	
Podon/Pleopsis spp.	3	3% 12	2% 60	6% <	(1% <	<1% <	1% 1	% 10%	<1%	3% <	1%	<1%	<	1% 2%	6 1%		<	1% <1%	<1	1%		<1%			Podon/Pleopsis spp	0.87	0.66	0.75	
Oithona spp.	<1%	<	1% <	1% 82	2%	7% 4	%		<1%	<1% <	1% <1%	2% <1%	<1%	19	6 <1%	i l		1% <1	%						(n=2715-train=3541) Oithona spp	0.25	0.82	0.38	
Calanoida (ci-ciii)	<1%	3	3% 2	2% 18	8% 4	11% 13	3% <	1% <15	6	4% <	1%	3%	<1%	12	% 1%			1%							(n=2572-train=4428) Calanoida (ci-ciii	0.20	0.41	0.35	
Pseudodiaptomus spp.	1%	2	2% <	1% 22	2% 1	13% 5·	4%	<1	<1%	<1% <	1%	2% <1%	5	3%	6   <1%	5						2%			(n=1348-train=1531)  Pseudodiaptomus spp				1.0
Hydrozoa (medusa)	1% 2	2%	5	5% 1	%	<	1% 74	4% 6%	<1%	<1%		<1%	<1% 2	% 6%	<1%	í		<1%				<1%			(n=1059-train=2113 Hydrozoa (medusa	0.51	0.54	0.39	
Gastropoda (larvae/Limacina)	1	4% 8	3% 10	0% <	(1% <	<1%   <	1% 1	% 65%	<1%	<1%				<1	% <1%	i l									(n=671-train=3730)	0.03	0.74	0.78	
Temora spp.	3%	2	2% <	1% 6	6%	9% 1	7%	<1	33%	1%		<1% 7%		13	% <1%	5					<1%	5%			Gastropoda (larvae/Limacina) (n=629-train=2871)		0.65	0.48	
Bryozoa (larvae)	<	(1% 24	4% 19	9% <	1% <	<1% <	1% <	1% 10%	<1%	43% <	1%	<1%		<1	%			<1%							<b>Temora spp</b> (n=308-train=2199	0.18	0.33	0.24	
Polychaeta (larvae)	<1%	20	0% 5	5% <	1%	5% 3	3%	1%		<1% 4	6%		<	1% 10	% 2%		<	1% 2%	<1	1% <1%					Bryozoa (larvae) (n=247-train=973)	0.33	0.43	0.37	
Ascidiacea (larvae)	<1%			5	5%	1	%				93%							<1%		<1%					Polychaeta (larvae (n=237-train=464	0.77	0.46	0.58	0.8
Harpacticoida- epibenthic	<1%	5	5%	30	6% 1	13% 12	2%		3%	<1%		19%		3%	б		<	1% 5%				3%			Ascidiacea (larvae	0.03	0.93	0.93	
Centropages spp.	25%			34	4%	2	2%		18%			16%										5%			n=194-train=805) Harpacticoida- epibenthio	0.00	0.19	0.12	
Echinodermata (larvae)		8	3% 5	3%	3% 3	30% 3	3%		3%	3	3%		3%	35	% 5%			3%							(n=108-train=372) Centropages spp				
Obelia spp. (medusa)	5%		5	5% 14	4%	5%	10	0%					33	3% 29	%										(n=44-train=3461) Echinodermata (larvae)	0.02	0.16	0.03	
Evadne spp.						6	6% 6	5%						81	% 6%										(n=37-train=118)		0.03	0.03	0.6
Cirripedia (larvae)		50	0%			6%		6%							38%										<b>Obelia spp. (medusa</b> ) (n=21-train=952	0.10	0.33	0.21	
Chaetognatha	8%			8	3%						23%					8%		23% 15	%	15%					Evadne spp (n=16-train=5000)		0.81	0.02	
Pseudocalanus spp.	29%					1	4%		57%																<b>Cirripedia (larvae</b> (n=16-train=716	0.05	0.38	0.09	
Cnidaria (larvae)		29	9% 1	4%	2	29%									14%		14%								Chaetognatha (n=13-train=18)	1.00	0.08	0.14	
Decapoda-non brachyura (larvae)																	<b>7</b> 5	5%					25%		Pseudocalanus spp	0.00	0.00	0.00	
Fritillaria spp.																		100%							(n=7-train=228) Cnidaria (larvae	1 00	0.14	0.25	0.4
Oikopleura spp.																		100%							(n=7-train=20)  Decapoda-non brachyura (larvae)		0.75	0.32	
Monstrillidae												50%							50%						(n=4-train=197) Fritillaria spp	0.20			
Decapoda-brachyura (zoeae)																							100%		(n=3-train=2701) Oikopleura spp	0.02	1.00	0.03	
Osteichthyes (larvae)																				100%					(n=2-train=37)	0.00	0.00	0.00	
Ostracoda								100	%																<b>Monstrillidae</b> (n=2-train=27		0.50	0.67	0.2
Paracalanus spp.																						100%			<b>Decapoda-brachyura (zoeae</b> ) (n=1-train=277)	0.00	0.00	0.00	0.2
Microsetella spp.				10	00%																				Osteichthyes (larvae) (n=1-train=43)	0.17	1.00	0.29	
Eurytemora spp.									100%																Ostracoda (n=1-train=1	0.00	0.00	0.00	
	Acar	Siver	000	Odo (	Dith	Co/o. 1	Sel.	Yyd Ca	Sz. Temo	Bryo	Oly Sch	. Har Cen	chi.	Ober. 5/	an Cirr	Chas Pseu	Chia	Och Aritin	16 100 C	OSTA:	OST PARS 1.	ic Cury	Cala (ab)	Torza	Paracalanus spp	0.00	0.00	0.00	
	Acartia S	Sivalvia 1	Pode (	, on/	ona leo.	Calanoid	y dodl	TO TO A	Topoda	Bryotod ,	Colychaeta (Carae)	Tided Citical	Topogo Tode			ipedia (lan. Pseuda (lan.	ocalar aria	Decapoda non br	OKOPICUTO SPP.	Toda Schi	Ostracoda dara (alar	icrosetella spp.	Calanus Spp.	idocera spp.	(n=1-train=82) <b>Microsetella spp</b>	0.00	0.00	0.00	
		•	Copepodi (larvae)	" Palpl	Dsis (ii)	Calanoid Spp.	Circil	Sydrosos (	nedusa)	anae	Tracy 1	Harpacticold	tropages spp.	'AKA (la	adno Sp. (meduso)	Chaetognatha	Cnidaria (	To Ton bro		de Stack	Ostracoda lariace)		10° 20° "	200 .20	(n=1-train=4) Eurytemora spp				0.0
						λ.		9	D.	Bryotod Spp. Sarae/Lind	Cir.	Harpacticold	Conthi		de o			Decapoda non bro	Nyura (		Ostracoda Rapis (larvae)				(n=1-train=1730 Calanus spp	0.00	0.00	0.00	
											(a)								(larvae)	/	<b>*</b> %)			_	(n=0-train=109)	_	_	-	
																								Extra training	Labidocera spp (n=0-train=493	_	-	-	
													Pre	dicted	l Valu	es								classes	<b>Tortanus spp</b> (n=0-train=111	_	_	-	
																									macro avg (corr)	0.36	0.42	0.31	
																									weighted avg	0.84	0.61	0.65	
																											11	64	

## Predictions of discarded taxa from training



**Predicted Taxa** 

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

