Use of SCN features: No Max learning objects: 5000 objects/class Strategy N° 1

Actual Values

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

Classification Report Matrix max 5000 learning objects per class

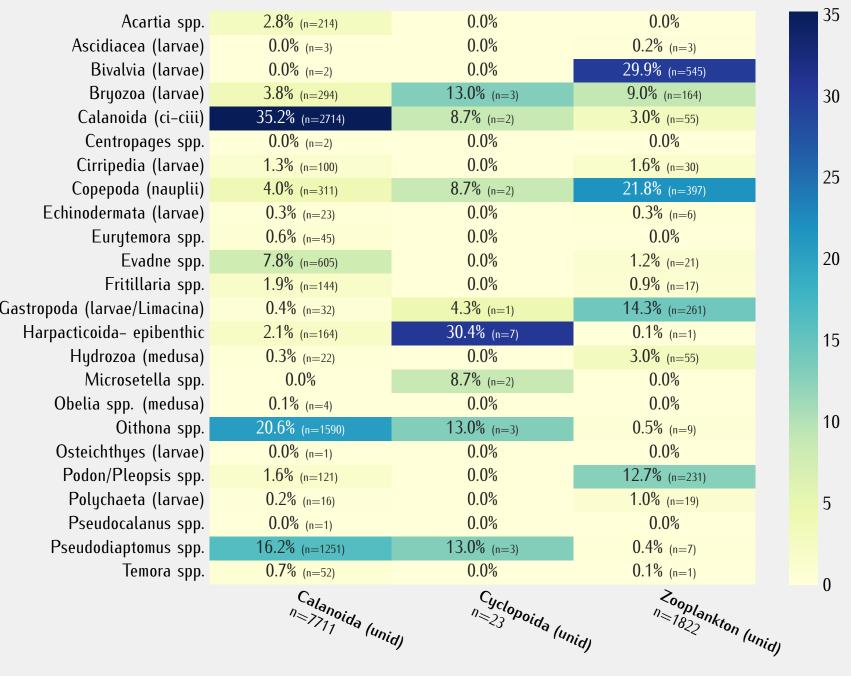
precision

recall f1-score

													Con	fusi	on N	latri	x – I	ln p	erce	nt o	of Ac	tual Va	lue										
Acartia spp.	44%		<1%	<1%	29%	5%	% 59	6	<1%	<1%	3%	<1%	<b>i</b>	<1	% 1%	5 2	% <	(1%	<1%	3%	<1%	6	<1%		<1%	<1%	<1% <1%			<1%	7%		
Bivalvia (larvae)		93%	<1%	<1%	<1%	<1	1% <1	1%	<1%	4%		<1%	5 <1%	s <1	%					<1%	5 <1%	ó				<1%							
Copepoda (nauplii)		1%	92%	1%	<1%	<1	1% <1	1%		<1%		1%	<1%	ó			<	(1%		<1%	1%					<1%							
Podon/Pleopsis spp.		3%	12%	67%	<1%	<1	1% <1	1%	2%	8%	<1%	4%	<1%	á	<1	% <	1%			2%	2%				<1%	<1%	<1%				<1%		
Oithona spp.	<1%		<1%	<1%	82%	7%	% 49	6	<1%		<1%	<1%	5	<1	% 3%	í	<	(1%		1%	<1%	ó				1%							
Calanoida (ci-ciii)	<1%		3%	2%	16%	41	% 13	%	<1%	<1%	i	5%	<1%	ó	5%	ó	<	(1%		11%	2%					<1%							
Pseudodiaptomus spp.	1%		1%	<1%	18%	11	% 58	%		<1%	1%	<1%	6		2%	5 <	1%			3%	<1%	ó <	<1%							<1%	1%		
Hydrozoa (medusa)	1%	2%		5%	1%		<1	1%	73%	6%	<1%	1%	<1%	ó		<	1% <	(1%	2%	5%	<1%	ó				<1%					<1%		P
Gastropoda (larvae/Limacina)		13%	7%	10%	<1%	<1	1% <1	1%	1%	66%		<1%	í							<1%	s <1%	ó											
Temora spp.	3%		2%	<1%	5%	89	% 17	%		<1%	35%	2%	<1%	ó	<1	% 8	%			12%	1%	<	<1%				<1%			<1%	5%	Car	-4
Bryozoa (larvae)		<1%	21%	15%	<1%	<1	1%			9%	<1%	51%	<1%	ó	<1	%					<1%	б				<1%						Cas	stropo
Polychaeta (larvae)	<1%		19%	5%	<1%	5%	% 39	%		2%		<1%	46%				<	(1%	<1%	10%	2%				<1%	2%	<1%	<1%					
Ascidiacea (larvae)	1%				3%		19	6						939	%											1%		1%					
Harpacticoida- epibenthic			4%		32%	14	% 12	%			5%	2%			249	%				2%						4%					2%		
Centropages spp.	27%				30%		29	6			20%					14	<b>!</b> %						2%								5%		
Echinodermata (larvae)			5%	5%	3%	22	.% 39	6			3%		3%				1	1%		30%	14%					3%							11
Obelia spp. (medusa)	5%			5%	19%				10%						5%	5			29%	29%													Harp
Evadne spp.										6%	6%	6%								75%	6%												
Cirripedia (larvae)			50%			6%	%			6%							6	ĵ%			31%												Ec
Chaetognatha														239	%				8%			15%				31%		23%					C
Pseudocalanus spp.	29%						14	%			57%																						
Cnidaria (larvae)			29%			29	1% 1%			14%											14%			14%									
Decapoda-non brachyura (larvae)																									75%			25%					
Fritillaria spp.																										100%							
Oikopleura spp.																										100%							
Monstrillidae																50	)%										50%						
Decapoda-brachyura (zoeae)																											100%					Decapo	oda-no
Osteichthyes (larvae)																									100%							·	
Ostracoda										100%	5																						
Paracalanus spp.																															100%		
Microsetella spp.					100%																												
Eurytemora spp.											100%																						ecapoo
	Acar	Biral Spp.	Via larre	Podlo (no	Tuplii)	Sono Sis Soli	Manoida de	Scudo (ci.ci	Hydron Milling (Milling)	Cas mus Sp.	Temopodo (Colusa)	Brylo Spp. Janaell	Policinal (Indina)	Silchaeta Vaej	Cidiacea (lange)	Proctice (larvee)	Entropay	Schinol ges Sp. Sp. Sibenth	Obelle Ob	Spp. Marae	The Spp. (medusa)	Chaetolia (lana)	Pseude Pratha ey	Chidal hocalanus	Decalia (lanes)	Pritillari Roda non bi	Oikopleura Spp.  Tachyura (lanae)	Ostel Doda bra	Ostraco Achyura Ro	Paracalar, Mac, Mac, Mac, Mac, Mac, Mac, Mac, Mac	Microsetella Sp. Sp.	10 <sub>70</sub> 500.	(
																F	Predi	cted	l Val	ues													

	precision	recall	11-Score
Acartia spp. (n=18062-train=5000)	0.99	0.44	0.61
Bivalvia (larvae) (n=7955-train=3574)	0.97	0.93	0.95
Copepoda (nauplii) (n=2753-train=5000)	0.80	0.92	0.85
Podon/Pleopsis spp. (n=2715-train=3541)	0.87	0.67	0.76
<b>Oithona spp.</b> (n=2572-train=4428)	0.27	0.82	0.40
Calanoida (ci-ciii) (n=1348-train=1531)	0.31	0.41	0.35
Pseudodiaptomus spp. (n=1059-train=2113)	0.32	0.58	0.41
Hydrozoa (medusa) (n=671-train=3730)	0.78	0.73	0.75
Gastropoda (larvae/Limacina) (n=629-train=2871)	0.39	0.66	0.49
Temora spp. (n=308-train=2199)	0.16	0.35	0.21
Bryozoa (larvae) (n=247-train=973)	0.31	0.51	0.39
Polychaeta (larvae) (n=237-train=464)	0.77	0.46	0.58
Ascidiacea (larvae) (n=194-train=805)	0.94	0.93	0.94
Harpacticoida- epibenthic (n=108-train=372)	0.07	0.24	0.10
Centropages spp. (n=44-train=3461)	0.01	0.14	0.03
Echinodermata (larvae) (n=37-train=118)	0.09	0.11	0.10
Obelia spp. (medusa) (n=21-train=952)	0.09	0.29	0.14
Evadne spp. (n=16-train=5000)	0.01	0.75	0.03
Cirripedia (larvae) (n=16-train=716)	0.03	0.31	0.06
Chaetognatha (n=13-train=18)	1.00	0.15	0.27
Pseudocalanus spp. (n=7-train=228)	0.00	0.00	0.00
Cnidaria (larvae) (n=7-train=20)	1.00	0.14	0.25
capoda-non brachyura (larvae) (n=4-train=197)	0.25	0.75	0.38
Fritillaria spp. (n=3-train=2701)	0.01	1.00	0.03
Oikopleura spp. (n=2-train=37)	0.00	0.00	0.00
Monstrillidae (n=2-train=27)	0.50	0.50	0.50
Decapoda-brachyura (zoeae) (n=1-train=277)	0.14	1.00	0.25
Osteichthyes (larvae) (n=1-train=43)	0.00	0.00	0.00
Ostracoda (n=1-train=1)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=82)	0.00	0.00	0.00
Microsetella spp. (n=1-train=4)	0.00	0.00	0.00
Eurytemora spp. (n=1-train=1730)	0.00	0.00	0.00
macro avg	0.35	0.43	0.31
weighted avg	0.84	0.62	0.67
	precision	recall	f1-score

## Predictions of discarded taxa from training



**Predicted Taxa** 

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

