Use of SCN features: Yes

Max learning objects: 200 objects/class Strategy N° 6

Actual Values

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

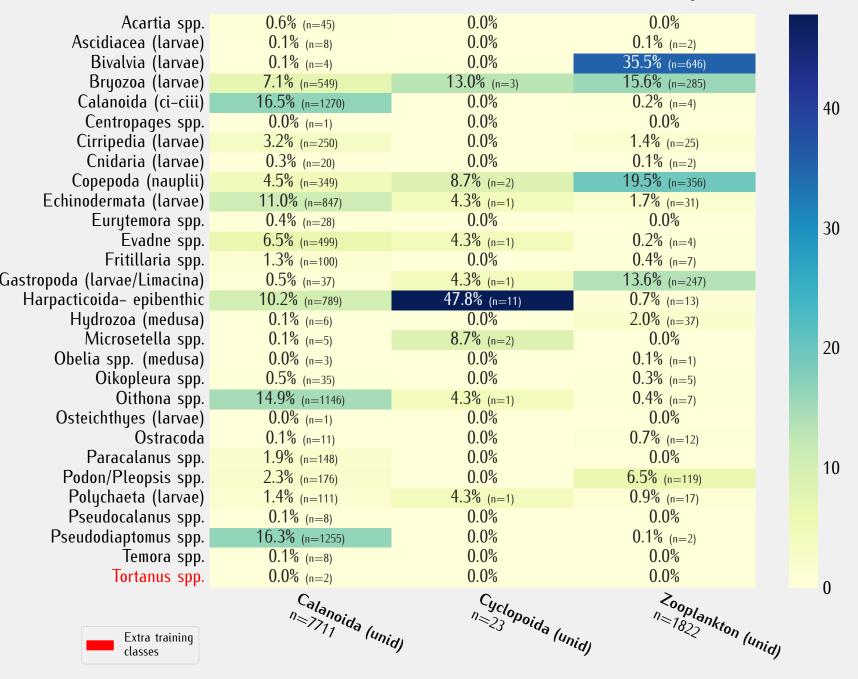
Classification Report Matrix max 200 learning objects per class

precision

f1-score

Acartia spp.																														
Acartia spp.																										Α	precision	recall	f1-score	
	. 17%	<	1% <1	% 36%	5%	4%	<1%	<1	1% <1%	<1%	<1% 49	8 2%	1%	<1%	2% <	1%	<1% <1% <	<1% <1%	6   <1%	<1% <1%	<1%	11%		12%	2%	Acartia spp. (n=18062-train=200)	0.99	0.17	0.30	
Bivalvia (larvae)	91	% 19	% <1	% <19	% <1%	<1%	<1% (	6%	<1%	<1%	<1% <1	1%	<1%		<1% <	1%	<1%	<1%	<1%		<1%		<1%			<b>Bivalvia (larvae)</b> (n=7955-train=200)		0.91	0.93	
Copepoda (nauplii)	4%	86	<1	%	<1%	<1%	<	<1%	5%	<1%	<1	1%	4%		<	1%	<1%	<1%	<1%							Copepoda (nauplii) (n=2753-train=200)	0.72	0.86	0.78	
Podon/Pleopsis spp.	. 7%	% 19	% 409	% <1 <sup>9</sup>	% <1%	<1%	2% 1	8% <1	1% 10%	<1%	<1	1%	<1%	<1%	<1% 15	%	<1%	<1%	<1%	<1%	<1%	<1%		<1%		Podon/Pleopsis spp.	0.84	0.40	0.54	
Oithona spp.	. <1%	<	1% <1	% 72%	8 2%	7%			<1%	<1%	<1% 11	%	4%		2% <	1%		<1%	<1%				<1%	<1%		(n=2715-train=200) Oithona spp.		0.72	0.32	
Calanoida (ci-ciii)		39	% 3%	10%	% 21%	12%	<	<1%	9%	3%	14	%	9%		10% 49	%	<1%	2%	<1%			<1%	<1%			(n=2572-train=200) Calanoida (ci-ciii)				
Pseudodiaptomus spp.	. <1%	29	% <1	% 19%	% 2%	47%	<	<1%	2%	1%	13	% <1	% 3%		3% 29	%	<1% <1%					2%		1%	<1%	(n=1348-train=200) Pseudodiaptomus spp.	0.22	0.21	0.22	
Hydrozoa (medusa)	<1% 2%	% <	1% 3%	1%	i	<1%	69%	5%	4%	1%	<1	1%	<1%	3%	5% <	1%	<1%	<1%	<1%		<1%	2%		<1%		(n=1059-train=200)	0.32	0.47	0.38	
Gastropoda (larvae/Limacina)	16	5% 10	8%	ó		<1%	2% 5	54%	4%	2%	<1	1%			<1% <	1%	<1%				<1%	<1%		<1%		Hydrozoa (medusa) (n=671-train=200)	0.76	0.69	0.72	
Temora spp.	. <1%	25	% <1	% 4%	< 1%	18%		19	)% 4%	2%	39	% 5%	3%		8% 49	%	12% <1%			<1%		10%		3%	<1%	Gastropoda (larvae/Limacina) (n=629-train=200)	0.26	0.54	0.35	
Bryozoa (larvae)	2%	% 26	% 119	% <19	%		<1%	7%	51%	<1%					<	1%	<1%	<1%	ó			<1%				Temora spp. (n=308-train=200)		0.19	0.26	
Polychaeta (larvae)	<1% <1	1% 32	.% 5%	i 1%	j	2%	<	<1% <1	1% 5%	16%	19	6	14%	<1%	4% 14	1%	<	<1%	<1%	<1% <	1%					Bryozoa (larvae)	0.15	0.51	0.23	
Ascidiacea (larvae)	<1%			3%	j	<1%			<1%	<1%	91% 19	%					<	<1% <1%	6 <1%	25	%					(n=247-train=200) Polychaeta (larvae)	0.25	0.16	0.20	
Harpacticoida- epibenthic		59	% <1	% 19%	6%	6%				<1%			5%		3% <	1%	2%					2%	2%	4%		(n=237-train=200) Ascidiacea (larvae)				
Centropages spp.				43%	8			29	%		29	% 16 <sup>9</sup>	%		25	%						9%		2%	5%	(n=194-train=200) Harpacticoida- epibenthic	0.03	0.91	0.88	
Echinodermata (larvae)		59	% 119			3%							32%		19% 24										3%	(n=108-train=200)	0.04	0.44	0.07	
Obelia spp. (medusa)				6 14%			10%				59	<b>%</b>			14% 19							5%				Centropages spp. (n=44-train=200)	0.02	0.16	0.04	
Evadne spp.				6%			6%								69% 12							6%				Echinodermata (larvae) (n=37-train=200)	0.02	0.32	0.04	
Cirripedia (larvae)		44	·% 6%					6%					12%			)%					12%					Obelia spp. (medusa) (n=21-train=200)	0.07	0.24	0.11	
Chaetognatha		-	070	8%				0,0			8%		1270		15	23%		15%	38%	8						Evadne spp.	0.02	0.69	0.03	
Pseudocalanus spp.				0/0	,			14	10/		070					23/0	29%	1370	30/0		70	14%		14%		(n=16-train=200) Cirripedia (larvae)	0.01	0.19	0.02	
··		20	10/ 200	0,				17	1/0				14%				29%					14/0		14/0		(n=16-train=200) Chaetognatha				
Cnidaria (larvae)		29	)% 299	0									14/0				29%	7004		25	-0.				250	(n=13-train=89)	0.73	0.23	0.35	
capoda-non brachyura (larvae)				220	<b>.</b>												5	00%		25	)%				25%	Pseudocalanus spp. (n=7-train=200)	0.01	0.29	0.02	
Fritillaria spp.				33%	6													6/%								Cnidaria (larvae) (n=7-train=25)	0.09	0.29	0.13	
Oikopleura spp.																		100%	ó							Decapoda-non brachyura (larvae) (n=4-train=200)	0.07	0.50	0.13	
Monstrillidae																				100%						Fritillaria spp. (n=3-train=200)	0.01	0.67	0.02	
Decapoda-brachyura (zoeae)																									100%	Oikopleura spp.	0.00	0.00	0.00	
Osteichthyes (larvae)																1009	6									(n=2-train=200) <b>Monstrillidae</b>				
Ostracoda	n en						100%																			(n=2-train=27)  Decapoda-brachyura (zoeae)	0.17	1.00	0.29	
Paracalanus spp.																						100%				(n=1-train=200)	0.00	0.00	0.00	
Microsetella spp.															100%											Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00	
Eurytemora spp.																	100%									Ostracoda (n=1-train=25)	0.00	0.00	0.00	
	Acarx. Bi	ival, C	Der Do	odo, Oil	the Call	An Sel	Hydr	Castr le	Smor Bryo	Poly	Ascid.	Arps Co.	nt Chi	Obel	Chad.	irin Cha	Pex Sour Chief	Deca Prin	Oiko	Mons Deco.	Ster Ostr	Paral	Micro	Euryx (	Alap Abig Torto.		0.00	1.00	0.00	
	Acartia Sp	20.	Openoda langel	1/Plee	thong Sol	oida (	Hydroxo (i.c.ii)	opol	Smora Spp.	Od llar	Ascidiace (ac)	detico.	opages	Oderma	Chadhe St. (hede	Do Colia	Pseudocalaria (lange)	Occapoda Prita Planae	aria Sp	Monstrillidge	Osteichthyes Obrachyura	Colla	Micro Relanus Sp	Setella Sp.	Calanus Spp. Tortanus Spp.	Microsetella spp.	0.00	0.00	0.00	
			de	Quolii,		·	City Only		(larvae)	· 1.	de lary	(dryde)	'a Dis	500 1	d (lan med	ly.	drae, a lis	(D) (Se)	On brace		achyur	lana	Ž	10 Sp.		(n=1-train=4) <b>Eurytemora spp.</b> (n=1-train=200)		0.00	0.00	
					~.			1/2	Emora Sp. Varae/	inacin			Potropages Pida Pibe	Phic	de	9)				Monstrillidae  Op. Spp.  Mura (larvae)	•	(FORO)				(n=1-train=200) Calanus spp.		0.00	0.00	
										19)	/									(ande)		9	,		<b>-</b>	(n=0-train=200)		_	_	
																				-					Extra trainin	Labidocera spp. (n=0-train=200)	_	-	_	
													ŀ	'redic	cted Val	lues									classes	Tortanus spp. (n=0-train=200)	_	-	_	
																										macro avg (corr)	0.26	0.40	0.23	
																										weighted avg	0.82	0.45	0.48	

## Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

