Use of SCN features: No

Max learning objects: Maximum objects/class Strategy N° 7

Actual Values

## Gulf Selected Samples prediction using all regions training set, Learning with selected samples classes with no low global training instances, no extra training categories, No Calanoida, Cyclopoida, Zooplankton classes in learning set

Classification Report Matrix max available learning objects per class

precision recall f1-score

Confusion Matrix – In percent of Actual Value														max			objects per class																								
																																					precision	recall	f1-score		
Acartia spp.						169			2%				<1%			(1%				% <	<1%	<1%	2%			<1	1%		<1%		1%		<1	% <1	Aca (n=18062-train	<b>artia spp.</b> n=111319)	0.98	0.68	0.80		
Bivalvia (larvae)																(1%	<1%				_			<19						<1%					Bivalvia (n=7955-tra	a (larvae) ain=3764)		0.93	0.95		
Copepoda (nauplii)		1%							<1%			1%	4.0	<1%				<19	ó		1%			1%					<1%	<1%				0	<b>Copepoda</b> (n=2753-trai	<b>(nauplii)</b> in=11555)	0.78	0.93	0.85		
Podon/Pleopsis spp.		3%							<1%	1%	8	%	<1%		<			4.0			20			2%					4.0		<19		<1	%	Podon/Pleo (n=2715-tra	opsis spp.	0.02	0.67	0.74		
Oithona spp.									4%	.41	0	4.0.		<1%				1%			2%			1%							<19				Oith	hona spp.		0.81	0.52		
Calanoida (ci-ciii)  Pseudodiaptomus spp.					3%				11% 57%			1%		2% <1%	,			2% <1 <sup>9</sup>			3% <1%			6% 4%		<1	1 0,		<1%	< 1%	<19			<1	(n=2572-tra Calanoid	ĺ					1.0
Hydrozoa (medusa)						<1/			J/10	609			<1%					< 1/	0			<b>/1%</b>		<19		<1			2%		<19			<1	(n=1348-tra	ain=5557)	0.26	0.34	0.30		
Gastropoda (larvae/Limacina)										1%		70 5%	170	<1%							\170	170		< 19			170		Z*0			70			(n=1059-tra	rain=2113)	0.44	0.57	0.50		
Temora spp.					1%				18%				2 <b>7</b> %	<1%					2%	ó <	<1%			6%		79	%				2%		<1	% <1	Hydrozoa (n=671-tra	(medusa) rain=4052)	0.83	0.69	0.76		
Bryozoa (larvae)						<1			10 0		7	%	2, 0	45%									3 0	<19						<1%					Gastropoda (larvae/l	Limacina) rain=3272)	0.41	0.65	0.50		0.0
Polychaeta (larvae)						<1			2%				<1%			4%					3%		8%	10%					<1%			<1	% <1	%	Ten (n=308-tra	mora spp.	0.39	0.27	0.32		0.8
Ascidiacea (larvae)						2%	ó		<1%						,	2%	89%											<1%	1%	3%		<1	%			a (larvae)	0.38	0.45	0.41		
Harpacticoida- epibenthic	6%		5	5%		349	%	14%	10%				<1%	<1%	á			20%	6	<	<1%		3%	<19	%	<1	1%		3%						Polychaeta	a (larvae)	0.56	0.44	0.49		
Centropages spp.	59%					209	%	5%					2%						119	%				2%											Ascidiacea	ain=1577) a (larvae)	0.97	0.89	0.92	•	
Echinodermata (larvae)			8	3%	11%				3%						,	3%					30%		16%	30%	ó										(n=194-t Harpacticoida- e	train=861)					0.6
Obelia spp. (medusa)	5%				10%	199	%			5%												19%	29%	5%					10%						(n=108-t	train=555)	0.15	0.20	0.17		
Evadne spp.	6%													6%									75%	12%	ó										(n=44-tra	ages spp. rain=3620)	0.06	0.11	0.08		
Cirripedia (larvae)			4	4%	6%						6	%		6%							6%			31%	6										Echinodermata (n=37-tra	a (larvae) ain=3043)	0.04	0.30	0.07		
Chaetognatha																	8%								8%	ó			23%	62%					Obelia spp. (n=21-tra	(medusa) rain=1003)	0.29	0.19	0.23		
Pseudocalanus spp.													14%						149	%						29									Eva (n=16-trai	adne spp. in=11064)	0.02	0.75	0.03		0.4
capoda–non brachyura (larvae)																												100%							Cirripedia	ŕ	0.01	0.31	0.02		
Fritillaria spp.																													67%	33%					Chae	etognatha	1.00	0.08	0.14		
Oikopleura spp.								000.																					100%						(n=13- Pseudocala	-train=89) anus spp.					
Paracalanus spp.							1	00%																				100%							(n=7-tra	rain=4845)		0.29	0.05		0.2
Osteichthyes (larvae)  Decapoda-brachyura (zoeae)																												100/0					100	%	· ·	train=423)	0.50	1.00	0.67		
Eurytemora spp.																										100	0%						100	70	Fritill (n=3-tra	laria spp. rain=6992)	0.02	0.67	0.04		
Largremora 3pp.		8	i (	Con	Don	, O	). '*/	G/	Q58	40			Ten.	Br		D 0/	Z.	40	, Ç	2	ξ <sub>α</sub> .	06	Ć,	Cir				000	ζ <sub>i</sub>	Oil	A A	, O			Oikoplo (n=2-tra	eura spp. rain=5305)	0.00	0.00	0.00		
	Acart	10 Sp.	idhia (le	Nepo dr.	000 (p)	Oliopii)	ithona S.	<sup>Q</sup> n <sub>o</sub>	Pseul Pida (ci.	dodiant	Orozod !	Strop.	10,	Style Spp.	Otod (	Polychal (ande)	(0) (4)	ACEA (	toacticoid	"Tropoly	Tes Tes	Jerma elic	, 200.	The SUD	Dedia (	haetognati.		Olap Olap	Oda na	Aria Sp	Poleura St.	racalanus	Cichthyo	Capoda 6	Paracala (n=1-tra	anus spp.	0.00	0.00	0.00		
		·		· Pacy	, Ad	On Please	5/5 DX	; ?	Pseul Pseul	Cii)	Idrotod (	"ed <sub>USO</sub>	(b)	racli.		(AR)	(lar	Day (	todeticoid	a. Di	. 50p.	Obelie dermata	(lara-	Ine Sp. Medusa)	′ ' (	ander.	4	Decapo	10n	brach,	92	<i>2</i> ,	Teichthyes	(lande)	Osteichthyes	ŕ	0.00	0.00	0.00		0.0
											,	1		Styling Spp. Vac/Line	cinal						Thic		~) 							941	Poleura St.				Decapoda-brachyur	ŕ	0.10	1.00	0.18		
																	n	1.	1 . 1 /	ı											9				Euryten	mora spp. rain=1818)	0.00	0.00	0.00		
																	۲r	eatci	ted Va	dlUes	5															cro avg	0.37	0.47	0.35		
																																				ted avg		0.73	0.77		
																																				7.9					

	Acartia snn	9.2% (n=712)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.0%	100
	Ascidiacea (larvae)	` '	0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=1)	
	Bivalvia (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	29.0% (n=528)	
	Bryozoa (larvae)	` '	0.0%	13.0% (n=3)	0.0%	0.0%	0.0%	7.1% (n=130)	
	Calanoida (ci-ciii)			4.3% (n=1)	0.0%	0.0%	0.0%	1.5% (n=27)	
	Centropages spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	80
	Cirripedia (larvae)		28.6% (n=2)	4.3% (n=1)	0.0%	0.0%	0.0%	1.8% (n=33)	
	Copepoda (nauplii)		28.6% (n=2)	8.7% (n=1)	0.0%	0.0%	0.0%	25.4% (n=463)	
	Echinodermata (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	0.7% (n=13)	
,		` '	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60
. ~	Eurgtemord Spp.  Fyadne snn	7.8% (n=600)	0.0%	4.3% (n=1)	0.0%	0.0%	0.0%	1.5% (n=27)	00
Predicted Tava	Fritillaria spp.		0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.5% (n=10)	
4	Gastropoda (larvae/Limacina)		14.3% (n=1)	0.0%	0.0%			1) 12.7% (n=231)	
j	Harpacticoida- epibenthic		0.0%	30.4% (n=7)		0.0%	0.0%	0.1% (n=1)	
Pr	Hydrozoa (medusa)		0.0%	0.0%	0.0%	0.0%	0.0%	2.4% (n=44)	40
	Obelia spp. (medusa)	· · · ·	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Oikopleura spp.	` ′	0.0%	0.0%	0.0%	0.0%	0.0%	0.4% (n=8)	
		16.4% (n=1268)			100.0% (n=1		0.0%	0.3% (n=5)	
	Paracalanus spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Podon/Pleopsis spp.		14.3% (n=1)	4.3% (n=1)	0.0%	0.0%	0.0%	14.7% (n=267)	20
	Polychaeta (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	1.4% (n=26)	
	Pseudocalanus spp.	` ′	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Pseudodiaptomus spp.	, ,		17.4% (n=4)	0.0%	0.0%	0.0%	0.4% (n=8)	
	Temora spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
			Cn: .	Cur	$M_{i}$	Mo	0,,	≥ <sub>00</sub>	0
		n=7711	Cnidario Ida (unid)	Cyclopo n≥23 (la <sub>rvae)</sub>	$Mi_{cro}$ $p_{id_{\partial}} \binom{n-1}{(u_{nid})}$	$M_{onstril}$ Se $tell_{m{ heta}}$ Sp $_{m{ heta}}$	$O_{St_{r_{oldsymbol{ heta}_{0}}}}$ $I_{id_{oldsymbol{ heta}_{0}}}$	Zooplank Coda <sup>n≥1822</sup>	to.
		//	(unid)	"arvae)	(unid)	"a spp.	96	- </td <td>(unid)</td>	(unid)
					,				•

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



