Use of SCN features: Yes Max learning objects: 200 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

Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max 200 learning objects per class

precision recall f1-score

												Con	nfusi	on N	latrix	- In	perce	ent of	Actu	al Va	alue												max 200 to	earning of	ojecis	per class	
																	•																precision	recall	f	1-score	
Acartia spp.	. 18%		<1%	<1	1% 30	6%	5%	4%	<1%		<	1% <	<1%	<1%	<1%	4%	2%	<1%	<1%	2%	<	1%	<	<1%	<1%	<1%	<1%	12%		<1%	12%	Acartia spj (n=18062-train=200	0.99	0.18		0.30	
Bivalvia (larvae)		91%	1%					<1%					<1%		<1%			<1%		<15	% <						<1%					Bivalvia (larvae (n=7955-train=200		0.91		0.92	
Copepoda (nauplii)			86%					<1%		<1%				<1%		<1%		4%		4.4	<				4.0	<1%	<1%			4.0	4.0	Copepoda (naupli (n=2753-train=200	0.72	0.86		0.78	
Podon/Pleopsis spp.		/%	18%					<1%	2%	1/%	<			<1%	-10	110,		<1%			% 1				<1%	-10		<1%		<1%	<1%	Podon/Pleopsis sp	. 0.00	0.41		0.55	
Oithona spp. Calanoida (ci-ciii)				39	1% 7°			11%		<1%	6		<1% 10%	2%	<1% <1%			10%			6 < 4 b							<1% <1%			<1%	Oithona sp	0. 0.21	0.71		0.32	
Pseudodiaptomus spp.								47%		<1%				<1%	170		<1%				3		<	<1%		270	170	2%			<1%	(n=2572-train=200 Calanoida (ci-cii)) 0.21	0.21		0.21	1.0
Hydrozoa (medusa)		2%				1%		<1%						1%		<1%		<1%						<1%		<1%	<1%	3%			<1%	(n=1348-train=200)) 	_			
Gastropoda (larvae/Limacina)		16%	10%	10	1%			<1%					4%			<1%				<15	% <	1%						<1%				(n=1059-train=200 Hydrozoa (medusa	0.52	0.47		0.38	
Temora spp.	<1%		2%	<1	1% 3	3%	<1%	18%			18	8%	5%	2%		4%	5%	3%		8%	5 5	%	1	12%				10%		<1%	4%	(n=671-train=200	0.73	0.69		0.72	
Bryozoa (larvae)		4%	24%	12	2% <	1%			<1%	7%			49%	1%						<15	% <	1%					<1%	<1%				Gastropoda (larvae/Limacina (n=629-train=200		0.54		0.35	0.8
Polychaeta (larvae)	<1%	<1%	32%	5%	% 2	2%		2%		<1%	б <	:1%	4%	18%		2%		11%	<1%	5%	14	1%			<1%		<1%		<1%	<1%		Temora spj (n=308-train=200	0.29	0.18		0.22	
Ascidiacea (larvae)	<1%				3	3%		<1%				<	<1%		91%	2%									1%	<1%	<1%		2%			Bryozoa (larvae (n=247-train=200	0.14	0.49		0.21	
Harpacticoida- epibenthic			4%		1!	9%	5%	7%				<	<1%	<1%		47%		6%		4%	<	1%	-	2%				2%			3%	Polychaeta (larvae (n=237-train=200	0.27	0.18		0.22	
Centropages spp.	. 20%				43	3%					5	5%				2%	16%				2	%						9%			2%	Ascidiacea (larvae	0.83	0.91		0.86	
Echinodermata (larvae)			5%	11	% 3	3%		3%										32%		169	6 27	7%						3%				(n=194-train=200 Harpacticoida- epibenthi	c 0.04	0.47	•	0.07	0.6
Obelia spp. (medusa)				5%	% 1 ₄				10%							5%		5%	24%									5%				(n=108-train=200 Centropages sp	')				
Evadne spp.					6	5%							6%							699		2%						6%				(n=44-train=200 Echinodermata (larvae	0.02	0.16		0.04	
Cirripedia (larvae)			44%		0	20.				12%			6%	12%	00.			12%			12	2%	220.			00.	460.		00.			(n=37-train=200) 0.02	0.32		0.04	
Chaetognatha Pseudocalanus spp.					ď	3%					20	9%			8%							2	23%	29%		8%	46%	1.40	8%			Obelia spp. (medusa (n=21-train=200	0.07	0.24		0.11	0.4
Decapoda-non brachyura (larvae)												9%												29%	75%			14%	25%			Evadne spj (n=16-train=200	0.02	0.69		0.03	0.1
Fritillaria spp.																									75.0	67%	33%		25,0			Cirripedia (larvae (n=16-train=200	0.01	0.12		0.01	
Oikopleura spp.																										100%						Chaetognath (n=13-train=89	0.75	0.23		0.35	
Paracalanus spp.																												100%				Pseudocalanus spj (n=7-train=200	0.01	0.29		0.02	
Osteichthyes (larvae)																						10	00%									Decapoda-non brachyura (larvae) 0.00	0.75		0.17	0.2
Decapoda-brachyura (zoeae)																									100%							(n=4-train=200 Fritillaria sp)· • • • • • • • • • • • • • • • • • • •	0.67		0.03	
Eurytemora spp.																							10	00%								(n=3-train=200 Oikopleura spj	')				
	Acarria.	Bivall	Cope	200 C	odon (Oithona Cops.	Calan	Selle	1/1/9	Yo' Cas	Tro.	Tenor .	Bryoz	Polye	Ascial	1/0/2	De Cent	to. Con	ing Obe	I'm Ch	dhe (iripa	Chaeto	PSelle	O _e C _e O _e O	Fritil	Oifox	DATAC	Ostell	Oeco	Cury,	(n=2-train=200	0.00	0.00		0.00	
	,	500	Cope Cope		Odon/Place	Posts	<i>S</i> 00.	Pseul Circi	odiaptol	Totos (me	Dode	13/14/5	<i>9</i> .	Polyc	Ascial Ascial	acea (19)	Ticoida,	Pages	inodermar		me Sp.	? The	Chaetogne	The O	Decapo	Non Pon		Pleura Sp.	Ostale Colonus Sp.	nthyes (Oda brac	Paracalanus spj (n=1-train=200	0.00	1.00		0.00	0.0
			·)	Miij	\$2	Şó.	~	(i)	15 DD.	(20)	Temora St. (lande)	lina		, .,	a _e)	Pacticoida (Nac)	Chibent	inodermate	(larvae)	(dusa)	,	%)		Ş		Orachyuro		· · · · X	, · · · ·	on on	Paracalanus spi (n=2-train=200 Paracalanus spi (n=1-train=200 Osteichthyes (larvae (n=1-train=45) Paracalanus spi (n=1-train=45)	0.00	0.00		0.00	0.0
													*C11	Pa)					°C								\$	Meura Spp.				Decapoda-brachyura (zoeae (n=1-train=200	0.00	0.00		0.00	
															D۳	edict	ed Val	1100														Eurytemora spj (n=1-train=200	0.00	0.00		0.00	
															11	culti	cu val	ucs														macro av		0.42		0.25	
																																weighted av		0.46		0.49	
																																weighted dv	3.02	0.10		5.15	

Predictions of discarded taxa from training

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



