Use of SCN features: No

Actual Values

Max learning objects: 5000 objects/class Strategy N° 4

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

Confusion Matrix - In percent of Actual Value

Classification Report Matrix max 5000 learning objects per class

precision

recall

f1-score

											Conf	usion	Matri	x – In	perc	ent c	of Acti	ual V	/alue										m	ax 5000 te	earning obje	ects per cla	ISS
																													Acartia spp.	precision		f1-score	
Acartia spp.	44%		<1%	<1%	29%	5%	5%	<1%	<1%	3%	<1%	<1%	<1%	1%	2%	<1%	<1%	3%	<1%	<1%	<1%	<1%	7%	<1%	<	1% <1%		<1%	(n=18062-train=5000)	0.99	0.44	0.61	
Bivalvia (larvae)		93%	<1%	<1%	<1%	<1%	5 <1%	% <1%	4%		<1%	<1%	<1%					<1%	<1%			<1%							Bivalvia (larvae) (n=7955-train=3574)	0.97	0.93	0.95	
Copepoda (nauplii)		1%	91%	1%	<1%	1%	<1%	ó	<1%		1%	<1%				<1%		<1%	1%			<1%							Copepoda (nauplii) (n=2753-train=5000)	0.80	0.91	0.85	
Podon/Pleopsis spp.		3%	12%	67%	<1%	<1%	s <1%	6 2%	9%	<1%	4%	<1%		<1%	<1%			2%	2%		<1%	<1%	<1%	<1%				<1%	Podon/Pleopsis spp. (n=2715-train=3541)	0.87	0.67	0.75	
Oithona spp.	<1%		<1%	<1%	82%	7%	4%	<1%			<1%		<1%	3%		<1%		1%	<1%			1%						<1%	Oithona spp. (n=2572-train=4428)	0.27	0.82	0.41	
Calanoida (ci-ciii)	<1%		3%	2%	16%	41%	13%	<1%	<1%		4%			5%		<1%		11%	2%			<1%							Calanoida (ci-ciii)	0.20	0.41	0.35	П
Pseudodiaptomus spp.	1%		1%	<1%	19%	11%	58%	i	<1%	<1%	1%			2%	<1%			3%	<1%	<1%			2%						(n=1348-train=1531) Pseudodiaptomus spp.	0.32	0.58	0.41	н
Hydrozoa (medusa)	<1%	2%		6%	1%		<1%	72%	6%	<1%	1%	<1%			<1%	<1%	2%	6%	<1%			<1%	<1%						(n=1059-train=2113) Hydrozoa (medusa)				н
astropoda (larvae/Limacina)		12%	7%	10%	<1%	<1%	s <1%	6 1%	67%		<1%							<1%	<1%										(n=671-train=3730) Gastropoda (larvae/Limacina)	0.70	0.72	0.75	П
Temora spp.	2%		2%	<1%	5%	8%	17%	j	<1%	35%	3%	<1%			8%	<1%		12%	<1%	<1%			5%	<1%	<	1%	<1%		(n=629-train=2871)	0.40	0.67	0.50	П
Bryozoa (larvae)		<1%	20%	15%	<1%	s <1%	á		10%	<1%	51%	1%							<1%			<1%							Temora spp. (n=308-train=2199)	0.17	0.35	0.23	
Polychaeta (larvae)	<1%		18%	5%	<1%	5 5%	3%		<1%		1%	47%				<1%	<1%	10%	2%		<1%	2%		<1%	<1%				Bryozoa (larvae) (n=247-train=973)	0.32	0.51	0.40	П
Ascidiacea (larvae)	1%				3%		1%						92%									1%			2%				Polychaeta (larvae) (n=237-train=464)	0.72	0.47	0.57	П
Harpacticoida- epibenthic			4%		32%	15%	12%	j		3%	3%			24%				2%			<1%	2%	3%						Ascidiacea (larvae) (n=194-train=805)	0.95	0.92	0.94	П
Centropages spp.	27%				30%		2%			18%					16%					2%			5%						Harpacticoida- epibenthic (n=108-train=372)	0.07	0.24	0.10	П
Echinodermata (larvae)			3%	5%	3%	30%						3%				11%		30%	11%			3%						3%	Centropages spp. (n=44-train=3461)		0.16	0.03	1
Obelia spp. (medusa)	5%			5%	14%			10%						5%			33%	29%											Echinodermata (larvae) (n=37-train=118)	0.08	0.11	0.09	
Evadne spp.				6%							6%						П	75%	6%				6%						Obelia spp. (medusa)	0.11	0.33	0.16	П
Cirripedia (larvae)			50%			6%			6%							6%			31%										(n=21-train=952) Evadne spp.		0.75	0.03	П
Pseudocalanus spp.	29%						14%	i		43%					14%														(n=16-train=5000) Cirripedia (larvae)	0.01			
oda-non brachyura (larvae)																					50%				25%		25%		(n=16-train=716)		0.31	0.06	
Fritillaria spp.																						100%							Pseudocalanus spp. (n=7-train=228)	0.00	0.00	0.00	
Eurytemora spp.										100%																			Decapoda-non brachyura (larvae) (n=4-train=197)		0.50	0.27	
Decapoda-brachyura (zoeae)																											100%		Fritillaria spp. (n=3-train=2701)	0.02	1.00	0.03	
Osteichthyes (larvae)																									100%				Eurytemora spp. (n=1-train=1730)	0.00	0.00	0.00	
Paracalanus spp.																							100%						Decapoda-brachyura (zoeae) (n=1-train=277)	0.00	0.00	0.00	
		Si	Co.	<i>₽</i>	O _i ,	, G		4,	(S))	S _r	S _O	₹ <u>5</u> _	4	Co.	€ _C	06	Ĉ.	C _i	\sqrt{\sqrt{\sqrt{\chi}}}	0			0	0, 1		64	To.	Osteichthues (larvae)	0.12	1.00	0.22	
	Acartic	Birdhie Spp.	. Pop	Oda (nple of	Rona Cale	noida	Udodian.	totod (tropodo Mol	Spp	Polych Carrac	ARTA CIDIA	Pack Contract	Centrope ticoida, ch	Ninol Ryp.	Term S	EDD OUT	Sport	in Colido	ncala.	Ma Tilla	id S.	Decapo	da teichthy	Tacalanus	Tus Spp.	Tortanus Spp.	Paracalanus spp.	0.00	0.00	0.00	
		, <u>, , , , , , , , , , , , , , , , , , </u>	The	Podo (nau)	lolii)	Gona Spp.	10	Aldodiaptoli Ciii)	Mus Sp.	tropoda (la)	Vae/	"Nde	Ascidial Maria	(larva	Centrope	716 SPD.	Obelia Stermata (la	med med	Ciriped.	(ANAC)	Decapo	70, 00, 6,	, DD.	Decapo	Osteichthyle och gura	Saracalanus Sp.	90	200 40	(n=1-train=82) Calanus spp.	0.00			
						·			<i>∞</i>		inde	ina				Chthic		de)	ツ				YUTA	(lan	•	(topode)			(n=0-train=109) Labidocera spp.		_	_	
																								190)				Extra	(n=0-train=493)	_	_	-	
													F	Predic	ted Vá	alues												training classes	Tortanus spp. (n=0-train=111)	-	-	-	
																													macro avg (corr)	0.33	0.49	0.33	
																													weighted avg	0.84	0.62	0.67	

Predictions of discarded taxa from training 100 0.0% 0.0% 0.0% 0.0% 0.0% Acartia spp. 2.9% (n=225) 0.0% 0.0% 0.0% 0.1% (n=2) Ascidiacea (larvae) 0.1% (n=4) 30.8% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 30.0% (n=547) Bivalvia (larvae) 0.0% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 8.7% (n=2) 0.0% 0.0% 0.0% 0.0% Bryozoa (larvae) 3.7% (n=284) 9.7% (n=176) 28.6% (n=2) Calanoida (ci-ciii) 35.2% (n=2714) 0.0% 0.0% 0.0% 0.0% 0.0% 3.2% (n=58) 8.7% (n=2) 80 0.0% 0.0% 0.0% Centropages spp. 0.0% (n=2) 0.0% 0.0% 0.0% 0.0% 50.0% (n=1) Cirripedia (larvae) 1.3% (n=98) 0.0% 14.3% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 1.6% (n=30) Copepoda (nauplii) 3.9% (n=303) 0.0% 28.6% (n=2) 8.7% (n=2) 0.0% 0.0% 0.0% 0.0% 21.2% (n=386) 0.2% (n=3) Echinodermata (larvae) 0.4% (n=31) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 60 **Predicted Taxa** 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Eurytemora spp. 0.5% (n=39) 0.0% Evadne spp. 8.0% (n=615) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.3% (n=23) Fritillaria spp. 1.8% (n=140) 23.1% (n=3) 0.0% 0.0% 8.7% (n=2) 0.0% 0.0% 100.0% (n=2) 0.9% (n=16) Gastropoda (larvae/Limacina) 0.5% (n=37) 14.3% (n=1) 0.0% 0.0% 100.0% (n=1) 13.9% (n=254) 0.0% 4.3% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=1) Harpacticoida – epibenthic 2.2% (n=172) 34.8% (n=8) 0.0% 40 Hudrozoa (medusa) 0.3% (n=25) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 2.9% (n=53) Obelia spp. (medusa) 0.1% (n=4) 7.7% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Oithona spp. 20.3% (n=1566) 7.7% (n=1) 0.0% 8.7% (n=2) 100.0% (n=1) 0.0% 0.0% 0.0% 0.5% (n=10) 0.0% Osteichthyes (larvae) 0.0% (n=1) 30.8% (n=4) 0.0% 0.0% 50.0% (n=1) 0.0% 0.0% 0.0% Podon/Pleopsis spp. 1.4% (n=109) 0.0% 14.3% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 12.7% (n=232) 20 Polychaeta (larvae) 0.3% (n=21) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.2% (n=22) Pseudodiaptomus spp. 16.4% (n=1265) 0.0% 0.0% 17.4% (n=4) 0.0% 0.0% 0.0% 0.0% 0.4% (n=8) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=1) Temora spp. 0.7% (n=52) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Tortanus spp. 0.0% (n=2) 0 Microsetella spp. Zooplankton (unid) Chaetognatha Cnidaria (larvae) Cyclopoida (unid) Oikopleura spp. Calanoida (unid) Monstrillidae" Ostracoda Extra training

classes

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



