Use of SCN features: No

Actual Values

Max learning objects: 5000 objects/class Strategy N° 7

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 5000 learnin	a objects per class

precision recall f1-score

	Confusion Matrix – In percent of Actual Value														max 5000	learni	cts per class	S																	
																															precisio	n r	recall	f1-score	
Acartia spp.			<1%		1% 3				<1%		1%	<1%		<1%		2%	<1%			<1%		<1%	<1%	<19	<1%			<1%	5%	(n=18062-train=500	0)		0.39	0.56	
Bivalvia (larvae)		93%	<1% 92%					<1% <1%		4% <1%			<19	<1%	<1%		<1% 2%		<1%	1%					<1%					Bivalvia (larva (n=7955-train=376	e) 4) 0.97		0.93	0.95	
Copepoda (nauplii) Podon/Pleopsis spp.			14%							10%					<1%		Δ′0		<1%	1% 5 1%						5 <1 ⁹	6	<1%		Copepoda (naupl (n=2753-train=500	0.79 0.79		0.92	0.85	
Oithona spp.		3 0					3%			100				% <1%			3%			5 1%				<19		5 <1 ⁹		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Podon/Pleopsis sp (n=2715-train=500	p. 0.84		0.64	0.73	
Calanoida (ci-ciii)				39					<1%	<1%			1%		5%		4%			6%				<19		s <1 ⁹				Oithona sp (n=2572-train=500	p. 0.26		0.81	0.40	1
Pseudodiaptomus spp.	<1%		1%	<1	1% 1	18%	5%	62%		<1%		<1%	<19	6	1%	<1%	<1%	i	2%	3%		<1%				2%			<1%	`	ii) _{0.21}		0.32	0.25	1.
Hydrozoa (medusa)	<1%	2%	<1%	6 6 g	% <	<1%	1%	<1%	70%	6%	<1%	1%	<19	6			<1%	1%	5%	<1%	6	<1%		1%		1%			<1%	,	p. 0.35		0.62	0.45	
Gastropoda (larvae/Limacina)		13%	7%	11	% <	<1%	<1%	<1%	1%	66%		<1%	<19	6					<1%	5 <1%	6									Hydrozoa (medus	a) 0.92		0.70	0.76	
Temora spp.	1%		2%	<1	1%	4%	6%	19%		<1%	22%	2%	3%		<1%	5%	<1%		8%	6%		11%				6%		<1%	3%	(n=671-train=405) Gastropoda (larvae/Limacin	(2)	-			
Bryozoa (larvae)		<1%	20%	17	7 % <	<1%				8%	<1%	51%	2%							<1%	6				<19	ó				(n=629-train=327 Temora sp	2) 0.30		0.66	0.48	0.
Polychaeta (larvae)	<1%		20%	6 ⁹	% <	<1%	3%	2%		1%	<1%		46%	ó	<1%		3%		6%	10%	ó			<19	6		<1%	<1%		(n=308-train=500	0.20		0.22	0.24	
Ascidiacea (larvae)	<1%					4%		<1%					2%	90%									<1%	<19	% 2%		<1%	í		Bryozoa (larva (n=247-train=114			0.51	0.38	
Harpacticoida- epibenthic			5%					11%				<1%			29%				<1%	5 <1%	6	<1%		3%		4%			3%	Polychaeta (larva (n=237-train=157	e) (7) 0.55		0.46	0.50	
Centropages spp.						32%	9%				7%					14%										9%			2%	Ascidiacea (larva (n=194-train=86	e) 1) 0.93		0.90	0.91	
Echinodermata (larvae)			3%			1.402	E0.	5%	100			3%	3%		E0.		32%			30%				E0.		E0.				Harpacticoida- epibenth (n=108-train=55	ic 0.07		0.29	0.12	0.
Obelia spp. (medusa) Evadne spp.				10)% 1	14%	5 %		10%			6%			5%			29%	75%					5%		5%			6%	Centropages sp	p. 0.02		0.14	0.03	
Cirripedia (larvae)			38%							6%		6%					6%		/3/0	44%									0/0	(n=44-train=362 Echinodermata (larva	e) 0.04		0.32	0.06	
Chaetognatha			3070							0/0		070		8%			070			1 170	8%			23%	62%					(n=37-train=304) Obelia spp. (medus	3)				
Pseudocalanus spp.								14%			14%					14%						14%				14%	5			(n=21-train=100	3) 0.13		0.29	0.18	0.
Decapoda-non brachyura (larvae)																							100%							Evadne sp (n=16-train=500	0.02		0.75	0.04	
Fritillaria spp.																								67%	33%					Cirripedia (larva (n=16-train=500	e) 0.02		0.44	0.03	
Oikopleura spp.																								100	%					Chaetognat (n=13-train=8	1.00		0.08	0.14	
Paracalanus spp.																													100%	Pseudocalanus sp (n=7-train=484	p. 0.01		0.14	0.01	
Osteichthyes (larvae)																							100%							Decapoda-non brachyura (larva (n=4-train=42			1.00	0.67	0.
Decapoda-brachyura (zoeae)																												100%	5	Fritillaria sp	p. 0.02		0.67	0.04	
Eurytemora spp.																						100%								(n=3-train=500 Oikopleura sp	p . 0.00		0.00	0.00	
	Acarth	Sival	hia land	1. 2000	odon/Plauplii)	Oithono	Spp.	Pict PSelle	1001.	Totos (med	i Teme	Bryo. Spp. Procling	\$00 200	ychaeta (lar	in Harpe	Centrolda (de)		inodermata		Ine Sp. (Medusa)	Thedia (lan	Selide Selide	Octob	17.000	. Oik	Poleura S	idealanus St.	Octobrilles (Por	(n=2-train=500 Paracalanus sp (n=1-train=16) Osteichthyes (larva (n=1-train=4) Decapoda-brachyura (zoea	D)				
		10	land	44 (1) Pe)	odon/ple	Polis s	5/20	PSeula (ci.ci	A Plon	THE MED	TOTA (L		(lan	(de) (de)	ed lan	Coida	er 3	Op Comata	Pp. (1.	Med.	"A (lan	Van Jatha	danus,	50 DO	17 6, 80L	y X	30 37	Op.	(lar. bra	(n=1-train=16) Chylic Osteichthyes (larva	9) 0.00		0.00	0.00	0.
					V	, X	%		9	500	3)	de/lima	V.		*O)	9	Dibenth	ic.	drago	1150)		9	•	%	achyu,				de	(n=1-train=4	5) 0.00		0.00	0.00	
													19)												illaria SPA	(larvae)	,			(n=1-train=b)	8)		1.00	0.12	
														Pr	edicte	d Valı	ues													Eurytemora sp (n=1-train=18°	p. 0.00		0.00	0.00	
													macro av	o. 34		0.47	0.32																		
																														weighted av	g 0.84		0.60	0.64	

	_							,	1	00
	• •	2.1% (n=161)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	ľ	00
	Ascidiacea (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=2)		
	Bivalvia (larvae)	0.0% (n=3)	0.0%	0.0%	0.0%	0.0%	0.0%	30.2% (n=551)		
	Bryozoa (larvae)	3.3% (n=251)	0.0%	13.0% (n=3)	0.0%	0.0%	0.0%	9.9% (n=181)		
	Calanoida (ci-ciii)	27.4% (n=2116)	14.3% (n=1)	0.0%	0.0%	0.0%	0.0%	1.3% (n=24)	0	0
	Centropages spp.	0.0% (n=2)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.0%	8	0
	Cirripedia (larvae)	4.6% (n=355)	28.6% (n=2)	4.3% (n=1)	0.0%	0.0%	0.0%	1.4% (n=25)		
	Copepoda (nauplii)	4.5% (n=347)	28.6% (n=2)	8.7% (n=2)	0.0%	0.0%	0.0%	22.0% (n=401)		
	Decapoda-brachyura (zoeae)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=1)		
_	Echinodermata (larvae)	4.9% (n=374)	0.0%	0.0%	0.0%	0.0%	0.0%	1.0% (n=18)		
Predicted Taxa	Eurytemora spp.	0.3% (n=23)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6	0
<u> </u>	Evadne spp.	6.3% (n=482)	0.0%	0.0%	0.0%	0.0%	0.0%	1.2% (n=21)		
tec	Fritillaria spp.	0.7% (n=56)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.4% (n=8)		
dic	Gastropoda (larvae/Limacina)	0.6% (n=45)	28.6% (n=2)	0.0%	0.0%	0.0%	100.0% (n=	1) 14.2% (n=259)		
re	Harpacticoida- epibenthic	2.6% (n=204)	0.0%	43.5% (n=10)	0.0%	0.0%	0.0%	0.1% (n=2)		0
	Hydrozoa (medusa)	0.2% (n=18)	0.0%	0.0%	0.0%	0.0%	0.0%	2.7% (n=49)	4	0
	Obelia spp. (medusa)	0.0% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Oikopleura spp.	0.3% (n=24)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=6)		
	Oithona spp.	19.2% (n=1477)	0.0%	8.7% (n=2)	$100.0\% \ (n=1)$	0.0%	0.0%	0.3% (n=6)		
	Paracalanus spp.	1.0% (n=76)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Podon/Pleopsis spp.	2.4% (n=184)	0.0%	4.3% (n=1)	0.0%	0.0%	0.0%	12.9% (n=235)	2	20
	Polychaeta (larvae)	0.9% (n=72)	0.0%	0.0%	0.0%	0.0%	0.0%	1.3% (n=24)		
	Pseudocalanus spp.	0.1% (n=6)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Pseudodiaptomus spp.	18.4% (n=1420)	0.0%	17.4% (n=4)	0.0%	0.0%	0.0%	0.5% (n=9)		
	Temora spp.	0.1% (n=11)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0	
		C ^{9/2}	C_{nia}	$C_{u_{\alpha l}}$	Mic	Mor	Ost	<i>≥</i> ₀₀	0	
		n=7711	da () = idari	$a_{1/2} \stackrel{\eta \geq 23}{\sim} 23$	Pida (1 >1 Tos	$M_{o_{n_{Strie}}}$ $e^{tell_{o}}$ $s_{p_{n}}$	O_{Strac}	coda n 1822 nki	ton	
		' /	Cnidari da (unid)	Cyclopo n≥23 (larvae)	$M_{i_{Cros}}$ $n \geq 1$	$M_{onstrig}$ $etell_{m{\partial}}^{n} spp.$	-d6	$cod_{\mathbf{a}}$ $\stackrel{\mathbf{Zooplank_0}}{\sim} 1822$	" (unid)	

Relative Abundance of Top Taxonomic Instances per Sample



