Use of SCN features: No

Max learning objects: Maximum objects/class Strategy N° 5

Actual Values

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

Confusion Matrix In persont of Actual Value

max	Classification Report Matrix max available learning objects per cla									
	precision	recall	f1-score							
Acartia spp. (n=18062-train=111319)	0.98	0.68	0.80							
Bivalvia (larvae) (n=7955-train=3764)	0.97	0.93	0.95							
Copepoda (nauplii) (n=2753-train=11555)	0.78	0.94	0.85							
Podon/Pleopsis spp. (n=2715-train=7347)	0.83	0.68	0.75							
Oithona spp. (n=2572-train=5881)	0.38	0.81	0.52							
Calanoida (ci-ciii) (n=1348-train=5557)	0.26	0.34	0.29	1.0						
Pseudodiaptomus spp. (n=1059-train=2113)	0.44	0.58	0.50							
Hydrozoa (medusa) (n=671-train=4052)	0.83	0.68	0.75							
Gastropoda (larvae/Limacina) (n=629-train=3272)	0.41	0.64	0.50							
Temora spp. (n=308-train=7347)	0.41	0.28	0.33							
Bryozoa (larvae) (n=247-train=1142)	0.37	0.45	0.40	0.8						
Polychaeta (larvae) (n=237-train=1577)	0.60	0.44	0.51							
Ascidiacea (larvae) (n=194-train=861)	0.96	0.89	0.93							
Harpacticoida- epibenthic (n=108-train=555)	0.12	0.19	0.15							
Centropages spp. (n=44-train=3620)	0.06	0.11	0.08	0.6						
Echinodermata (larvae) (n=37-train=3043)	0.03	0.24	0.06							
Obelia spp. (medusa) (n=21-train=1003)	0.25	0.19	0.22							
Evadne spp. (n=16-train=11064)	0.02	0.75	0.03							
Cirripedia (larvae) (n=16-train=7685)	0.01	0.38	0.03							
Chaetognatha (n=13-train=89)	0.00	0.00	0.00	0.4						
Pseudocalanus spp. (n=7-train=4845)	0.01	0.14	0.02							
Cnidaria (larvae) (n=7-train=25)	0.00	0.00	0.00							
capoda-non brachyura (larvae) (n=4-train=423)	0.67	1.00	0.80							
Fritillaria spp. (n=3-train=6992)	0.02	0.67	0.04	0.2						
Oikopleura spp. (n=2-train=5305)	0.00	0.00	0.00	0.2						
Monstrillidae (n=2-train=27)	0.00	0.00	0.00							
Decapoda-brachyura (zoeae) (n=1-train=628)	0.11	1.00	0.20							
Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00							
Ostracoda (n=1-train=25)	0.00	0.00	0.00	0.0						
Paracalanus spp. (n=1-train=1619)	0.00	0.00	0.00							
Microsetella spp. (n=1-train=4)	0.00	0.00	0.00							
Eurytemora spp. (n=1-train=1818)	0.00	0.00	0.00							
macro avg	0.30	0.41	0.30							

weighted avg

precision

0.77

recall f1-score

												Conf	usior	n Ma	trix -	- In _I	perce	ent of	Actu	ual Value								
Acartia spp.	68%		<1%	<1%	16%	6%	2%	<1%		<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	2%	<1%	<1%	<1%	<1%	<1%	<1%		1%	<1	%
Bivalvia (larvae)		93%									<1%								<1%				<1%					
Copepoda (nauplii)					<1%				<1%		<1%	<1%				1%			1%				<1%					
Podon/Pleopsis spp.		3%	13%	68%	<1%	<1%	<1%	1%	8%	<1%	3%	<1%						1%	2%				<1%	<1%		<1%		
Oithona spp.	3%		<1%	<1%	81%	4%	4%				<1%	<1%	<1%	2%		2%		1%	1%			<1%	<1%				<1%	
Calanoida (ci-ciii)	4%		4%	3%	14%	34%	12%	<1%	<1%		3%	<1%		3%		3%		12%	6%			<1%	<1%			<1%		
Pseudodiaptomus spp.	7%		2%	<1%	16%	6%	58%		<1%		<1%	<1%		<1%		<1%		3%	4%	<1%						<1%	<1	%
Hydrozoa (medusa)	2%	2%	<1%	7%	<1%	<1%		68%	6%	<1%	<1%	1%				<1%	<1%	6%	<1%	<1%		2%			<1%	<1%		
Gastropoda (larvae/Limacina)	<1%	13%	7%	12%	<1%	<1%		2%	64%		<1%	<1%						<1%	<1%									
Temora spp.	9%		3%	<1%	4%	9%	18%			28%	<1%	2%			2%	<1%		10%	5%	6%				<1%		1%	<1	%
Bryozoa (larvae)		<1%	24%	20%	<1%				8%		45%	2%							<1%				<1%					
Polychaeta (larvae)	<1%		22%	6%	<1%	2%	2%		<1%	<1%		44%		<1%		3%		8%	11%			<1%		<1%	<1%			
Ascidiacea (larvae)	3%				2%		<1%					2%	89%								<1%	1%	3%		<1%			
Harpacticoida- epibenthic	6%		5%		35%	15%	11%			<1%	2%			19%		<1%		2%	<1%	<1%		3%						
Centropages spp.	55%				23%	5%				5%					11%				2%									
Echinodermata (larvae)			11%	8%		3%	3%									24%		22%	30%									
Obelia spp. (medusa)	5%			10%	24%			10%									19%	19%	10%			5%						
Evadne spp.	6%			6%														75%	12%									
Cirripedia (larvae)			44%						6%		6%					6%			38%									
Chaetognatha													8%									23%	69%					
Pseudocalanus spp.	43%					14%				14%					14%					14%								
Cnidaria (larvae)			29%			14%			29%										29%									
Decapoda-non brachyura (larvae)																					100%	670	220					
Fritillaria spp.																						67%	33%					
Oikopleura spp.																						100%						
Monstrillidae	50%																					50%		100%				
Decapoda-brachyura (zoeae) Osteichthyes (larvae)																							100%	100%				
Ostetchinges (tarvae) Ostracoda									100%														100/0					
Paracalanus spp.						100%			100/0																			
Microsetella spp.						100.0													100%									
Eurytemora spp.																			1000	100%								
		Si	G.	A CO	O;	G,	S ₂	4,	Ç	Ìe,	S _c	D _Q	A.	4	G.	Ę,	0	Ć,	Ç _i		Co. Oo	Ŝ.	0, 1,	0	0, 0,	$\mathcal{A}_{\mathcal{C}}$	1/2: E	
	Acarth	10 Spp.	Via land	Doda (no	Oithe Oithe	000 Spp.	Poida (c)	Hydrologicii)	otos (ne	Poda (le	Bryon Prac	Da laro	Nacta (lo	Harpe Praced (la)	Centrolda (Nae)	Dages s	Obelle Ob		Ciripe Spp. Reduse)	Chaetognatha (larvae)	Chidaria Can	Doda no,	Varia Spelling	Decap Strillidae	Osteichthyes (Coda Tace	Microsotelle	iltytemora Sp. Sp.
			Ÿ	· (y)	Plii	200 i		Cii)	Castro Mus Spp.	(ISA)	raelin	aci,	<i></i>	nae, i	Vae,	Chill opages Shepibent	Di.	(lande)	(edusa)	vae,	<i>Styp.</i> ((e) "	Oikopleura Sp. of brachyura (lan	V.	Osteichthyes (arvae)	20.	
												·(4)											(A)	30)		·8)		
															Pre	dicte	d Val	ues										

Predictions of discarded taxa from training

	Acartia spp.	9.2% (n=712)	0.0%	0.0%	
	Ascidiacea (larvae)	0.0% (n=1)	0.0%	0.1% (n=2)	
	Bivalvia (larvae)	0.0% (n=2)	0.0%	29.0% (n=528)	
	Bryozoa (larvae)	2.1% (n=163)	13.0% (n=3)	6.6% (n=121)	25
	Calanoida (ci-ciii)	28.4% (n=2192)	0.0%	1.4% (n=25)	
	Centropages spp.	0.0% (n=1)	0.0%	0.0%	
	Cirripedia (larvae)	4.9% (n=377)	4.3% (n=1)	1.7% (n=31)	
	Copepoda (nauplii)	5.0% (n=382)	8.7% (n=2)	25.7% (n=469)	20
	Echinodermata (larvae)	4.2% (n=322)	4.3% (n=1)	1.0% (n=18)	20
Œ	Eurytemora spp.	0.0% (n=2)	0.0%	0.0%	
Predicted Taxa	Evadne spp.	8.0% (n=618)	4.3% (n=1)	1.4% (n=26)	
<u> </u>	Fritillaria spp.	0.8% (n=60)	0.0%	0.6% (n=11)	15
tec	Gastropoda (larvae/Limacina)	0.6% (n=43)	0.0%	12.6% (n=229)	15
dic	Harpacticoida- epibenthic	1.2% (n=91)	26.1% (n=6)	0.1% (n=1)	
^{>} re	Hydrozoa (medusa)	0.2% (n=13)	0.0%	2.7% (n=49)	
<u> </u>	Microsetella spp.	0.0%	4.3% (n=1)	0.0%	
	Obelia spp. (medusa)	0.0% (n=2)	0.0%	0.0%	10
	Oikopleura spp.	0.2% (n=12)	0.0%	0.3% (n=5)	
	Oithona spp.	16.2% (n=1252)	13.0% (n=3)	0.3% (n=6)	
	Paracalanus spp.	0.3% (n=24)	0.0%	0.0%	
	Podon/Pleopsis spp.	2.6% (n=203)	4.3% (n=1)	14.8% (n=270)	5
	Polychaeta (larvae)	0.8% (n=62)	0.0%	1.3% (n=23)	
	Pseudocalanus spp.	0.1% (n=5)	0.0%	0.0%	
	Pseudodiaptomus spp.	15.1% (n=1164)	17.4% (n=4)	0.4% (n=8)	
	Temora spp.	0.1% (n=8)	0.0%	0.0%	0
		Calanoida n≈>>11 (uni	Cyclopoida (u ^{n≥23}	$lpha_{n_{lpha_{1822}}}$ $_{n_{lpha_{1822}}}$ $_{n_{lpha_{1822}}}$	ⁿ id)

Actual discarded Taxa



