Use of SCN features: Yes

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

max	Classification Report Matrix ax available learning objects per class								
	precision	recall	f1-score						
Acartia spp. (n=18062-train=111319)	0.97	0.69	0.81						
Bivalvia (larvae) (n=7955-train=3764)	0.97	0.93	0.95						
Copepoda (nauplii) (n=2753-train=11555)	0.76	0.94	0.84						
Podon/Pleopsis spp. (n=2715-train=7347)	0.82	0.68	0.74						
Oithona spp. (n=2572-train=5881)	0.37	0.80	0.50						
Calanoida (ci-ciii) (n=1348-train=5557)	0.27	0.33	0.30	1	.0				
Pseudodiaptomus spp. (n=1059-train=2113)	0.43	0.52	0.47						
Hydrozoa (medusa) (n=671-train=4052)	0.89	0.69	0.78						
Gastropoda (larvae/Limacina) (n=629-train=3272)	0.41	0.63	0.50						
Temora spp. (n=308-train=7347)	0.47	0.28	0.35						
Bryozoa (larvae) (n=247-train=1142)	0.38	0.35	0.36	0	8.				
Polychaeta (larvae) (n=237-train=1577)	0.62	0.37	0.47						
Ascidiacea (larvae) (n=194-train=861)	0.99	0.90	0.94						
Harpacticoida- epibenthic (n=108-train=555)	0.11	0.13	0.12						
Centropages spp. (n=44-train=3620)	0.06	0.09	0.07	0	.6				
Echinodermata (larvae) (n=37-train=3043)	0.04	0.27	0.07						
Obelia spp. (medusa) (n=21-train=1003)	0.50	0.24	0.32						
Evadne spp. (n=16-train=11064)	0.01	0.75	0.03						
Cirripedia (larvae) (n=16-train=7685)	0.01	0.38	0.02						
Chaetognatha (n=13-train=89)	0.00	0.00	0.00	0	.4				
Pseudocalanus spp. (n=7-train=4845)	0.02	0.14	0.03						
Cnidaria (larvae) (n=7-train=25)	1.00	0.14	0.25						
apoda-non brachyura (larvae) (n=4-train=423)	0.50	1.00	0.67						
Fritillaria spp. (n=3-train=6992)	0.02	0.67	0.03	0	.2				
Oikopleura spp. (n=2-train=5305)	0.00	0.00	0.00	U	.∠				
Monstrillidae (n=2-train=27)	0.00	0.00	0.00						
Decapoda-brachyura (zoeae) (n=1-train=628)	0.00	0.00	0.00						
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	0.33	0.37	0.30						

0.77

recall f1-score

weighted avg

precision

												Conf	usior	n Ma	trix -	- In p	erce	nt of	f Actu	ıal Value							
Acartia spp.	69%		<1%	<1%	17%	5%	2%	<1%		<1%	<1%	<1%		<1%	<1%	<1%	<1%	2%	<1%	<1%	<1%	<1%	<1%	<1%		<1%	<1%
Bivalvia (larvae)	<1%	93%	1%	<1%	<1%	<1%	<1%	<1%	4%		<1%	<1%	<1%	<1%		<1%		<1%	<1%			<1%	<1%				
Copepoda (nauplii)		1%	94%	1%	<1%	<1%	<1%		<1%		<1%	<1%				1%			1%			<1%	<1%				
Podon/Pleopsis spp.	<1%	4%	14%	68%	<1%	<1%	<1%	<1%	8%	<1%	2%	<1%						1%	1%				<1%	<1%			
Oithona spp.	4%		<1%	<1%	80%	4%	4%				<1%			1%		2%		1%	1%			<1%	<1%				
Calanoida (ci-ciii)	3%		4%	4%	16%	33%	11%		<1%		2%	<1%		2%		3%		13%	7%			1%	<1%				
Pseudodiaptomus spp.	8%		2%	<1%	19%	6%	52%		<1%		<1%	<1%		<1%		<1%		3%	5%	<1%						1%	<1%
Hydrozoa (medusa)	3%	2%	<1%	6%	<1%	<1%		69%	5%	<1%	<1%	<1%				<1%	<1%	8%	<1%	<1%		1%			<1%	<1%	
Gastropoda (larvae/Limacina)	<1%	14%	8%	12%	<1%	<1%		<1%	63%		<1%	<1%						<1%	<1%								
Temora spp.	9%		2%	1%	5%	8%	17%			28%		2%		<1%	1%			10%	6%	7%						2%	<1%
Bryozoa (larvae)		<1%	27%	26%	<1%				8%	<1%	35%	2%							<1%			<1%					
Polychaeta (larvae)	<1%		24%	8%	<1%	<1%	3%		<1%	<1%	<1%	37%				2%		5%	15%		<1%	<1%	<1%	<1%	<1%		
Ascidiacea (larvae)	3%				2%		<1%					1%	90%								<1%	1%	2%				
Harpacticoida- epibenthic	6%		6%		41%	13%	10%				2%	<1%		13%		<1%		2%	<1%	2%		3%					
Centropages spp.	61%				18%	7%				2%					9%				2%								
Echinodermata (larvae)			8%	11%			3%									27%		19%	32%								
Obelia spp. (medusa)	5%			5%	14%			5%								5%	24%	24%	14%			5%					
Evadne spp.	6%							6%										75%	12%								
Cirripedia (larvae)			44%						6%			6%				6%			38%								
Chaetognatha													8%									23%	69%				
Pseudocalanus spp.	71%									14%										14%							
Cnidaria (larvae)			29%	14%		14%													29%		14%						
apoda–non brachyura (larvae)																					100%						
Fritillaria spp.																						67%	33%				
Oikopleura spp.																						100%					
Monstrillidae															50%							50%					
Decapoda-brachyura (zoeae)																					100%						
Osteichthyes (larvae)																							100%				
Ostracoda									100%																		
Paracalanus spp.																											100%
Microsetella spp.																			100%								
Eurytemora spp.																				100%							
	Acartle	Sivall Spp.	Cope Cope	Podo (no	Oithe On Pleaps	Cala Ona Spp. Sis Spp.	Psell Psell (c)	Hydi Ciii)	Casil Mus Spp.	Temore Temore	Bryon Spp. Praclin	Polyce Pacina)	Ascide As	Harpo Mar	Centrollo (Nac)	Schin Opages St. Epibeni	Obelle Odermara Obelle Odermara Obelle Odermara	Spp. (Alarae)	Ciripe Spp. Reduse)	Chaetognatha (larvae)	Chidaria Claria Cara	Printe Poda No.	Oikopleura Spp. or brachyura (la)	Decapostrillidae	Osteichthyes (Paracala, (lange)	Microsetella SPP.
															Pre	dicte	d Val	ues									

Predictions of discarded taxa from training

	Acartia spp.	9.2% (n=712)	0.0%	0.0%		30
	Ascidiacea (larvae)	0.0%	0.0%	0.1% (n=1)		30
	Bivalvia (larvae)	0.0% (n=2)	0.0%	31.0% (n=565)		
	Bryozoa (larvae)	2.0% (n=151)	13.0% (n=3)	4.6% (n=84)		
	Calanoida (ci-ciii)	27.3% (n=2104)	0.0%	1.2% (n=21)		25
	Cirripedia (larvae)	5.1% (n=397)	4.3% (n=1)	1.9% (n=35)		
	Copepoda (nauplii)	5.6% (n=429)	13.0% (n=3)	26.3% (n=479)		
	Echinodermata (larvae)	4.0% (n=308)	4.3% (n=1)	0.9% (n=17)		20
g	Evadne spp.	8.5% (n=656)	4.3% (n=1)	1.5% (n=28)		20
Predicted Taxa	Fritillaria spp.	1.0% (n=80)	4.3% (n=1)	0.4% (n=7)		
. pa	Gastropoda (larvae/Limacina)	0.6% (n=49)	0.0%	12.2% (n=223)		
lict	Harpacticoida- epibenthic	0.9% (n=73)	17.4% (n=4)	0.0%		15
rec	Hydrozoa (medusa)	0.1% (n=4)	0.0%	1.5% (n=28)		
<u>a</u>	Obelia spp. (medusa)	0.0% (n=1)	0.0%	0.0%		
	Oikopleura spp.	0.3% (n=20)	0.0%	0.4% (n=8)		10
	Oithona spp.	16.4% (n=1267)	4.3% (n=1)	0.4% (n=8)		10
	Paracalanus spp.	0.2% (n=19)	0.0%	0.0%		
	Podon/Pleopsis spp.	3.0% (n=230)	4.3% (n=1)	15.9% (n=290)		
	Polychaeta (larvae)	0.8% (n=59)	0.0%	1.0% (n=18)		5
	Pseudocalanus spp.	0.1% (n=5)	0.0%	0.0%		
	Pseudodiaptomus spp.	14.8% (n=1138)	30.4% (n=7)	0.5% (n=9)		
	Temora spp.	0.1% (n=7)	0.0%	0.1% (n=1)		0
		Calanoida n≈>>11 (uni	Cyclopoida (u, n≥23 opoida (u,	Zooplankton (un	Pid)	U

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



