Actual Values

Use of SCN features: Yes 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 learning objects per class												
	precision	recall	f1-score									
spp. 000)	0.99	0.36	0.53									

Acartia spp.	36%		<1%	<1%	32%	7%	4%	<1%		1%	<1%	<1%	<1%	<1%	2%	<1%	<1%	2%	<1%	<19	<1%	<1%	<1%	6%		<1%	6%
Bivalvia (larvae)		93%	<1%	<1%	<1%	<1%	<1%	<1%	4%		<1%	<1%	<1%	<1%		<1%		<1%	<1%				<1%				
Copepoda (nauplii)		2%	92%	1%	<1%	<1%	<1%		<1%		<1%	<1%				2%			1%			<1%	<1%				
Podon/Pleopsis spp.		4%	14%	63%	<1%	<1%	<1%	1%	11%	<1%	3%	<1%					<1%	<1%	1%		<1%		<1%	<1%		<1%	<19
Oithona spp.	<1%		<1%	<1%	81%	3%	5%				<1%	<1%		3%		2%		<1%	1%			<1%	<1%	<1%			
Calanoida (ci-ciii)	<1%		3%	4%	16%	30%	15%		<1%		4%	1%		4%		4%		11%	6%			1%	<1%	<1%			
Pseudodiaptomus spp.	<1%		1%	<1%	20%	4%	58%		<1%	<1%	<1%	<1%		1%	<1%	<1%		3%	3%	<19	ó		<1%	3%			1%
Hydrozoa (medusa)	<1%	3%		6%	1%	<1%		70%	6%	<1%	<1%	<1%				<1%	1%	6%	<1%	<19	ó	1%		1%			
Gastropoda (larvae/Limacina)		13%	7%	10%	<1%	<1%	<1%	1%	66%		<1%	<1%						<1%	<1%								
Temora spp.	<1%		2%	<1%	4%	6%	19%		<1%	24%	<1%	2%		<1%	4%	<1%		10%	5%	11%				7%			2%
Bryozoa (larvae)		1%	25%	18%	<1%	<1%			8%		45%	2%							<1%				<1%				
Polychaeta (larvae)	<1%		22%	6%	<1%	<1%	2%		1%	<1%	<1%	42%		<1%		3%		5%	12%		<1%		<1%		<1%	<1%	
Ascidiacea (larvae)	<1%				4%		<1%					2%	91%								<1%	<1%	2%				
Harpacticoida- epibenthic	<1%		5%		36%	9%	12%				<1%	<1%		20%		3%		<1%	<1%	2%		3%		3%			3%
Centropages spp.	23%				41%	5%				9%					14%									5%			5%
Echinodermata (larvae)			8%	11%		3%	3%									30%		16%	30%								
Obelia spp. (medusa)				5%	14%	5%	5%	10%									33%	19%	5%					5%			
Evadne spp.						6%		6%										69%	19%								
Cirripedia (larvae)			44%						6%		6%					6%			38%								
Chaetognatha													8%									31%	62%				
Pseudocalanus spp.	29%						14%			29%										29%							
oda–non brachyura (larvae)																					100%						
Fritillaria spp.																						67%	33%				
Oikopleura spp.																						100%					
Paracalanus spp.																											100
Osteichthyes (larvae)																							100%				
Decapoda-brachyura (zoeae)																										100%	
Eurytemora spp.																				1009							
	Acart	Shall Sp.	Cope Cope	Podol (nau)	Oithon Pleapsis	Calan, Spp.	Pseulo Ps	Hydro Hodiaptomo iii)	Castro Noa (medi	Poda (la)	Bryon Spp. Wae/linac	Polyc, Od (larvae)	Ascide Ascide	Harpa Vae Mane	Centrol Chicoida (Se)	Ching Chine Sp.	Obell of the last	Spp. (me	Ciripel Respp.	Chaetognathe	Dece, Dece, of the depth of the second secon	Poda non b	Oikople Stachyura	Paracal (lange)	Ostoich Vanus Spp.	Decapes Continues Con	Sul add by
													Pı	redicte	d Valı	ues											

	precision	recutt	11 30010
Acartia spp. (n=18062-train=5000)	0.99	0.36	0.53
Bivalvia (larvae) (n=7955-train=3764)	0.97	0.93	0.95
Copepoda (nauplii) (n=2753-train=5000)	0.77	0.92	0.84
Podon/Pleopsis spp. (n=2715-train=5000)	0.84	0.63	0.72
Oithona spp. (n=2572-train=5000)	0.25	0.81	0.38
Calanoida (ci-ciii) (n=1348-train=5000)	0.22	0.30	0.25
Pseudodiaptomus spp. (n=1059-train=2113)	0.34	0.58	0.43
Hydrozoa (medusa) (n=671-train=4052)	0.86	0.70	0.78
Gastropoda (larvae/Limacina) (n=629-train=3272)	0.38	0.66	0.48
Temora spp. (n=308-train=5000)	0.25	0.24	0.25
Bryozoa (larvae) (n=247-train=1142)	0.33	0.45	0.38
Polychaeta (larvae) (n=237-train=1577)	0.54	0.42	0.47
Ascidiacea (larvae) (n=194-train=861)	0.97	0.91	0.94
Harpacticoida- epibenthic (n=108-train=555)	0.07	0.20	0.11
Centropages spp. (n=44-train=3620)	0.02	0.14	0.04
Echinodermata (larvae) (n=37-train=3043)	0.03	0.30	0.06
Obelia spp. (medusa) (n=21-train=1003)	0.24	0.33	0.28
Evadne spp. (n=16-train=5000)	0.02	0.69	0.03
Cirripedia (larvae) (n=16-train=5000)	0.01	0.38	0.03
Chaetognatha (n=13-train=89)	0.00	0.00	0.00
Pseudocalanus spp. (n=7-train=4845)	0.01	0.29	0.02
capoda-non brachyura (larvae) (n=4-train=423)	0.44	1.00	0.62
Fritillaria spp. (n=3-train=5000)	0.02	0.67	0.03
Oikopleura spp. (n=2-train=5000)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=1619)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=628)	0.07	1.00	0.12
Eurytemora spp. (n=1-train=1818)	0.00	0.00	0.00
macro avg	0.31	0.46	0.31
weighted avg	0.84	0.58	0.63
	precision	recall	f1-score

0.0

	Δ	4 50.	0.00.	0.00.	0.00.	0.00.	0.00.	0.00.		100
		1.5% (n=119)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Ascidiacea (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=2)		
	Bivalvia (larvae)	0.0% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	32.1% (n=584)		
	Bryozoa (larvae)	3.2% (n=248)	0.0%	17.4% (n=4)	0.0%	0.0%	0.0%	7.7% (n=140)		
	Calanoida (ci-ciii)	25.8% (n=1986)	14.3% (n=1)	0.0%	0.0%	0.0%	0.0%	1.1% (n=20)		80
	Centropages spp.	0.0% (n=2)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.0%		00
	Cirripedia (larvae)	4.8% (n=367)	14.3% (n=1)	4.3% (n=1)	0.0%	0.0%	0.0%	1.5% (n=27)		
	Copepoda (nauplii)	4.9% (n=380)	28.6% (n=2)	8.7% (n=2)	0.0%	0.0%	0.0%	23.3% (n=424)		
	Echinodermata (larvae)	4.9% (n=375)	0.0%	0.0%	0.0%	0.0%	0.0%	1.2% (n=21)		
g	Eurytemora spp.	0.3% (n=22)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		60
Taxa	Evadne spp.	7.2% (n=557)	0.0%	4.3% (n=1)	100.0% (n=1)	0.0%	0.0%	1.1% (n=20)		
ed	Fritillaria spp.	0.8% (n=63)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.3% (n=6)		
	Gastropoda (larvae/Limacina)	0.7% (n=54)	14.3% (n=1)	0.0%	0.0%	0.0%	100.0% (n=	1) 14.3% (n=261)		
	Harpacticoida- epibenthic	2.2% (n=170)	0.0%	30.4% (n=7)	0.0%	0.0%	0.0%	0.1% (n=2)		
P	Hydrozoa (medusa)	0.1% (n=8)	0.0%	0.0%	0.0%	0.0%	0.0%	1.5% (n=28)		40
	Obelia spp. (medusa)	0.0% (n=3)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Oikopleura spp.	0.4% (n=29)	0.0%	0.0%	0.0%	0.0%	0.0%	0.5% (n=9)		
	Oithona spp.	20.1% (n=1552)	0.0%	4.3% (n=1)	0.0%	0.0%	0.0%	0.4% (n=8)		
	Paracalanus spp.	0.9% (n=73)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Podon/Pleopsis spp.	2.5% (n=190)	28.6% (n=2)	4.3% (n=1)	0.0%	0.0%	0.0%	13.2% (n=240)		20
	Polychaeta (larvae)	0.9% (n=70)	0.0%	13.0% (n=3)	0.0%	0.0%	0.0%	1.1% (n=20)		
	Pseudocalanus spp.	0.1% (n=8)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Pseudodiaptomus spp.		0.0%	13.0% (n=3)	0.0%	0.0%	0.0%	0.5% (n=9)		
	Temora spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=1)		•
			C_{ni}	$C_{t(a)}$	M_{i_0}	Ma	0,,	≥00		0
		n=7711	da () = > "dari	$a_{1/2} = \frac{1}{23} \log p_0$	Pida (1 1 1 1 1 1 1 1 1	$M_{onstrong}$ $Setell_{a}$ Son	O_{Strac}	coda n=1822nk	to	
		' /	Cnidario Ida (unid)	Cyclope n\ge 23	Mic_{ros} Pid_{a} (u_{nid})	$M_{onstract}$ Setella $_{sp_{p_{.}}}^{n_{lpha}}$	4a 6	Zooplank Coda n≈1822	" (unid	9

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



