Use of SCN features: No

Actual Values

Max learning objects: 20000 objects/class Strategy N° 3

## Gulf Selected Samples prediction using Gulf training set, Learning with selected samples classes with no low regional 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	20000 learning objects per clas	S

f1-score

precision

													1													
Acartia spp.	58%		<1%	<1%	24%	5%	4%	<1%	<1%	2%	<1%	<1%	<1%	<1%	1%	<1%	<1%	3%	<1%	<1%	<1%	<1%	1%	<1%		<1%
Bivalvia (larvae)		93%	1%	<1%	<1%	<1%	<1%	<1%	4%		<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%	3%	12%	66%	<1%	<1%	<1%	1%	8%	<1%	4%	<1%		<1%	<1%			2%	1%		<1%	<1%	<1%	<1%		
Oithona spp.	1%		<1%	<1%	82%	7%	4%	<1%		<1%	<1%		<1%	2%		<1%		1%	<1%			1%				
Calanoida (ci-ciii)	1%		3%	2%	16%	41%	13%	<1%	<1%		4%	<1%		4%		<1%		12%	1%			<1%				
Pseudodiaptomus spp.	3%		2%	<1%	18%	11%	58%		<1%	<1%	<1%			2%				4%	<1%				<1%			
Hydrozoa (medusa)	2%	2%		5%	1%		<1%	72%	6%	<1%	<1%	<1%			<1%	<1%	2%	5%	<1%			<1%	<1%			
Gastropoda (larvae/Limacina)	<1%	12%	7%	10%	<1%	<1%		1%	67%		<1%							<1%	<1%							
Temora spp.	6%		2%	<1%	5%	8%	17%		<1%	34%	2%			<1%	8%	<1%		14%	<1%				2%	<1%		
Bryozoa (larvae)		<1%	23%	16%	<1%	<1%	<1%		9%	<1%	48%	<1%							<1%			<1%				
Polychaeta (larvae)	<1%		19%	5%	<1%	5%	3%		1%		<1%	46%				<1%	<1%	11%	2%		<1%	2%		<1%	<1%	
Ascidiacea (larvae)	2%				3%		1%						92%									1%			2%	
Harpacticoida- epibenthic	4%		4%		33%	16%	10%			2%	3%			22%				2%			<1%	2%	2%			
Centropages spp.	41%				32%					11%					14%								2%			
Echinodermata (larvae)			8%	8%	3%	30%				3%		3%				5%		30%	8%			3%				
Obelia spp. (medusa)	5%			5%	14%			10%						5%			33%	29%								
Evadne spp.									6%									81%	6%				6%			
Cirripedia (larvae)			50%			6%			6%							6%			31%							
Pseudocalanus spp.	43%						14%			29%					14%											
Decapoda-non brachyura (larvae)																					75%				25%	
Fritillaria spp.																						100%				
Eurytemora spp.										100%																
Decapoda-brachyura (zoeae)																								100%		
Osteichthyes (larvae)																									100%	
Paracalanus spp.																							100%			
		Birolly Spp.	Copel Copel	Podon, Paupi	Oithol Pleopsis s	Calane Sp.	Pseudo Circili	Alydro Alydro (Color)	Castron Oa (meduse Spp.	Tenoro Doda (lane	Bryozo Spp. Selimacine	Polych Na (larvae)	Ascidio Ascidi	Harpa Icea (land	Centro.	Chino Chino Doges Spp. Dibenthic	Obelia Obelia	Spp. (ned	Cirripe Spp. Yusa)	Pseudia (larvae)	Decape	Fitille Oda non bl		Decape	Osteich, brachyl	Paraco (la)
												Pı	edicte	d Valu	ies											

	precision	recatt	11-80016
Acartia spp. (n=18062-train=20000)	0.99	0.58	0.73
Bivalvia (larvae) (n=7955-train=3574)	0.97	0.93	0.95
Copepoda (nauplii) (n=2753-train=10297)	0.79	0.94	0.86
Podon/Pleopsis spp. (n=2715-train=3541)	0.86	0.66	0.75
<b>Oithona spp.</b> (n=2572-train=4428)	0.30	0.82	0.44
Calanoida (ci-ciii) (n=1348-train=1531)	0.31	0.41	0.35
Pseudodiaptomus spp. (n=1059-train=2113)	0.35	0.58	0.43
<b>Hydrozoa (medusa)</b> (n=671-train=3730)	0.78	0.72	0.75
Gastropoda (larvae/Limacina) (n=629-train=2871)	0.40	0.67	0.50
Temora spp. (n=308-train=2199)	0.23	0.34	0.28
<b>Bryozoa (larvae)</b> (n=247-train=973)	0.35	0.48	0.40
Polychaeta (larvae) (n=237-train=464)	0.79	0.46	0.58
Ascidiacea (larvae) (n=194-train=805)	0.95	0.92	0.94
Harpacticoida- epibenthic (n=108-train=372)	0.09	0.22	0.12
Centropages spp. (n=44-train=3461)	0.02	0.14	0.03
Echinodermata (larvae) (n=37-train=118)	0.08	0.05	0.07
Obelia spp. (medusa) (n=21-train=952)	0.16	0.33	0.22
Evadne spp. (n=16-train=7238)	0.01	0.81	0.03
Cirripedia (larvae) (n=16-train=716)	0.04	0.31	0.07
Pseudocalanus spp. (n=7-train=228)	0.00	0.00	0.00
apoda-non brachyura (larvae) (n=4-train=197)	0.27	0.75	0.40
Fritillaria spp. (n=3-train=2701)	0.02	1.00	0.04
Eurytemora spp. (n=1-train=1730)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=277)	0.17	1.00	0.29
Osteichthyes (larvae) (n=1-train=43)	0.14	1.00	0.25
Paracalanus spp. (n=1-train=82)	0.00	0.00	0.00
macro avg	0.35	0.54	0.36
weighted avg	0.84	0.69	0.73
	precision	recall	f1-score

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



