Use of SCN features: No

Max learning objects: Maximum objects/class Strategy N° 1

PA Selected Samples prediction using PA training set, Learning with all classes present in the selected samples, no extra training categories, No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

										C	ontusi	on IV	latrix	– In p	oercei	11 01 /	Actua	n Val	ue									
Cirripedia (larvae)	78%	1%	<1%	12%	<1%	2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%		1%	1%	<1%			<1%						<1%	<	(1%
Acartia spp.	1%	79%	<1%	<1%	<1%	<1%	6%	<1%	9%			<1%		<1%	<1%	<1%	<1%				<1%		<1%	<1%				
Oikopleura spp.	2%	2%	82%	3%	2%	2%	<1%	<1%	1%		<1%	<1%	<1%	<1%	2%	3%	<1%	<1%	<1%		<1%	<1%				<1%	<	(1%
Podon/Pleopsis spp.	10%	1%	<1%	53%		10%	1%	3%	10%			2%	3%			<1%	1%							<1%		3%		
Fritillaria spp.	<1%	6%	46%	<1%	40%	2%	<1%	<1%	<1%				<1%		3%							<1%						
Evadne spp.	7%	1%	<1%	11%		69%	<1%		4%		<1%	<1%	4%		<1%	<1%		<1%								<1%		
Corycaeidae	<1%	15%	2%	1%		<1%	69%	1%	6%			<1%		<1%		<1%	<1%		<1%		<1%			<1%	<1%			
Calanoida (ci-ciii)	16%	16%	<1%	14%		3%	11%	15%	7%			4%			9%											3%	<	(1%
Paracalanus spp.	<1%	9%	<1%	1%		2%	<1%		79%			<1%				<1%	<1%							3%	2%			
Gastropoda (larvae/Limacina)	8%	4%		36%		5%		<1%	2%	30%	8%	2%	<1%		<1%											3%		
Bivalvia (larvae)				14%		1%	1%			4%	79%															1%		
Polychaeta (larvae)	25%	5%		17%		5%	3%	2%	3%			26%	2%			2%	2%	2%	6%							2%		2%
Hydrozoa (medusa)			2%	2%		2%			4%			2%	82%			5%	2%											
Centropages spp.		20%	4%				2%		2%			2%		18%			20%		16%		12%			2%	2%			
Echinodermata (larvae)	5%			14%	2%	48%			2%				12%			10%		5%								2%		
Calycophorae (nectophore)												3%	8%			76%	8%		5%									
Decapoda-brachyura (zoeae)	3%	3%		3%					6%							3%	62%		12%		3%			3%				
Ctenophora (larvae)	3%			13%		10%						13%	52%			3%		3%								3%		
Decapoda-non brachyura (larvae)		4%				4%							12%				8%		73%									
Ostracoda				32%		32%	4%				20%		4%							8%								
Tortanus spp.	8%	4%												12%		21%	25%				29%							
Ascidiacea (larvae)			52%																			48%						
Oithona spp.		47%	12%		12%		6%							12%					6%				6%					
Pseudocalanus spp.									14%					14%			14%		14%					43%				
Calanus spp.													17%				50%		17%						17%			
Copepoda (nauplii)				25%				25%																		50%		
Euphysa spp. (medusa)													33%			67%												
Bryozoa (larvae)																	•				_							
	Cirrip	Acarta Can	Oitop Spp.	Podol.	Pleopsis	Aria SPD.	Coryce Spp.	Calane Reidae	Parace Dida (ci. ci.	Castro Nanus Sp.	Birally Clar	Polycia (larvae) (larvae) (larvae)	Hydro, hacka (lan	Centrol (media)	Chino Chino	Calyco (Octal Obhorae (I. Variae)	Toda brack, nectophore	Orora (lar.	Ostrace Poda non bi	Tortan	Ascidle (lange)	Cea (land	PSella Pp.	Calanto Calanus S	TUS PAP. SPAP.	Suphysa s, Inauplii)	Bryozood
	Predicted Values																											

max	Classification Report Matrix available learning objects per cl							
	precision	recall	f1-score					
Cirripedia (larvae) (n=3231-train=6358)	0.92	0.78	0.84					
Acartia spp. (n=2290-train=4410)	0.89	0.79	0.83					
Oikopleura spp. (n=1773-train=4507)	0.83	0.82	0.82					
Podon/Pleopsis spp. (n=607-train=3605)	0.35	0.53	0.42					
Fritillaria spp. (n=475-train=844)	0.79	0.40	0.54					
Evadne spp. (n=358-train=981)	0.54	0.69	0.60					
Corycaeidae (n=335-train=1760)	0.56	0.69	0.62					
Calanoida (ci-ciii) (n=150-train=313)	0.28	0.15	0.19					
Paracalanus spp. (n=141-train=1525)	0.24	0.79	0.37					
Gastropoda (larvae/Limacina) (n=126-train=291)	0.70	0.30	0.42					
Bivalvia (larvae) (n=96-train=119)	0.73	0.79	0.76					
Polychaeta (larvae) (n=65-train=661)	0.24	0.26	0.25					
Hydrozoa (medusa) (n=55-train=301)	0.33	0.82	0.47					
Centropages spp. (n=50-train=119)	0.26	0.18	0.21					
Echinodermata (larvae) (n=42-train=2649)	0.00	0.00	0.00					
Calycophorae (nectophore) (n=37-train=966)	0.20	0.76	0.32					
Decapoda-brachyura (zoeae) (n=32-train=343)	0.19	0.62	0.29					
Ctenophora (larvae) (n=31-train=29)	0.17	0.03	0.05					
ecapoda-non brachyura (larvae) (n=26-train=219)	0.42	0.73	0.54					
Ostracoda (n=25-train=18)	0.13	0.08	0.10					
Tortanus spp. (n=24-train=88)	0.24	0.29	0.26					
Ascidiacea (larvae) (n=23-train=54)	0.73	0.48	0.58					
Oithona spp. (n=17-train=44)	0.06	0.06	0.06					
Pseudocalanus spp. (n=7-train=65)	0.15	0.43	0.22					
Calanus spp. (n=6-train=37)	0.17	0.17	0.17					
Copepoda (nauplii) (n=4-train=233)	0.04	0.50	0.07					
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00					
Bryozoa (larvae) (n=1-train=50)	0.00	0.00	0.00					
macro avg	0.36	0.43	0.36					
weighted avg	0.78	0.71	0.73					
	precision	recall	f1-score					

Actual Values

Predictions of discarded taxa from training

Acartia spp.	45.8% (n=276)	33.3% (n=1)	1.5% (n=5)	
Bivalvia (larvae)	0.0%	0.0%	34.3% (n=115)	
Bryozoa (larvae)	0.0%	0.0%	0.6% (n=2)	40
Calanoida (ci-ciii)	1.7% (n=10)	0.0%	0.3% (n=1)	40
Calanus spp.	0.5% (n=3)	0.0%	0.0%	
Calycophorae (nectophore)	0.3% (n=2)	0.0%	0.0%	
Centropages spp.	0.8% (n=5)	0.0%	0.0%	
Cirripedia (larvae)	3.0% (n=18)	0.0%	3.3% (n=11)	
Copepoda (nauplii)	0.0%	0.0%	2.1% (n=7)	30
Corycaeidae C	8.8% (n=53)	33.3% (n=1)	2.1% (n=7)	
Decapoda-brachyura (zoeae)	1.8% (n=11)	0.0%	0.6% (n=2)	
Decapoda-non brachyura (larvae)	0.2% (n=1)	0.0%	0.6% (n=2)	
Echinodermata (larvae)	0.3% (n=2)	0.0%	0.3% (n=1)	
Evadne spp.	7.1% (n=43)	33.3% (n=1)	5.4% (n=18)	20
Fritillaria spp.	1.0% (n=6)	0.0%	0.3% (n=1)	
Gastropoda (larvae/Limacina)	0.0%	0.0%	6.9% (n=23)	
Hydrozoa (medusa)	0.3% (n=2)	0.0%	0.9% (n=3)	
Oikopleura spp.	1.3% (n=8)	0.0%	0.6% (n=2)	
Oithona spp.	0.2% (n=1)	0.0%	0.0%	10
Paracalanus spp.	24.0% (n=145)	0.0%	2.4% (n=8)	10
Podon/Pleopsis spp.	1.3% (n=8)	0.0%	34.0% (n=114)	
Polychaeta (larvae)	0.2% (n=1)	0.0%	3.9% (n=13)	
Pseudocalanus spp.	0.7% (n=4)	0.0%	0.0%	
Tortanus spp.	0.7% (n=4)	0.0%	0.0%	0
	Calanoid	$C_{yclop_{0i}}$	Zooplani	0
	$C_{alanoida}$ (ci	Cyclopoida (u, iv_vi)	Zooplankton (u.	nid)
				,

Predicted Taxa

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



