Use of SCN features: No

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

Actual Values

NL 2020 Selected Samples prediction using all regions training set, Learning with all classes present in the selected samples, no extra training categories, No Anthoathecata, Calanoida, Copepoda, Zooplankton classes in learning set

Confusion Matrix - In percent of Actual Value

														Percen		 						
Temora spp.	50%	37%	3%	6%	<1%	1%	<1%	<1%	<1%			<1%	<1%				<1%			<1%	<1%	<1%
Acartia spp.	11%	86%	1%	<1%	<1%	<1%	<1%		<1%		<1%		<1%				<1%				<1%	<1%
Evadne spp.	<1%	<1%	87%	<1%		6%	<1%	<1%	<1%	<1%		2%	<1%					<1%			<1%	<1%
Pseudocalanus spp.	24%	43%	<1%	30%	1%	<1%	<1%							<1%			<1%			<1%		<1%
Centropages spp.	13%	15%		1%	71%															<1%	<1%	
Podon/Pleopsis spp.	28%	4%	8%	3%		24%	<1%													7%	2%	25%
Eurytemora spp.	7%	58%	4%	1%		1%	26%		1%													
Gastropoda (larvae/Limacina)			2%			27%		57%		7%		3%										4%
Oithona spp.		15%	1%						81%				1%				1%	1%				
Bivalvia (larvae)								4%		93%		2%										
Oikopleura spp.		1%									79%			1%	6%		7%			6%		
Hydrozoa (medusa)	5%		5%			2%						28%		2%		9%	2%				42%	6%
Harpacticoida- epibenthic	4%	78%		16%									2%									
Calanus spp.				12%										72%					4%	12%		
Chaetognatha				7%							7%				87%							
Chiridius spp.	7%			43%										14%						36%		
Aglantha spp. (medusa)														20%		50%					30%	
Fritillaria spp.		29%									14%						43%	14%				
Echinodermata (larvae)		20%	20%			20%					20%							20%				
Metridia spp.				50%										50%								
Decapoda-non brachyura (larvae)														50%						50%		
Cnidaria (larvae)	50%																					50%
Obelia spp. (medusa)																					100%	
Polychaeta (larvae)				100%																		
Amphipoda														100%								
Tomopteris spp.											100%								4			
Tenora Acartic Scattle Saluto California Superiora Super																						
	Predicted Values																					

Classification Report Matrix

max	Classification Report Matrix available learning objects per class							
	precision	recall	f1-score					
Temora spp. (n=18103-train=7347)	0.79	0.50	0.62					
Acartia spp. (n=13302-train=111319)	0.58	0.86	0.69					
Evadne spp. (n=5228-train=11064)	0.86	0.87	0.87					
Pseudocalanus spp. (n=3053-train=4845)	0.43	0.30	0.35					
Centropages spp. (n=330-train=3620)	0.62	0.71	0.66	1.0				
Podon/Pleopsis spp. (n=253-train=7347)	0.09	0.24	0.13					
Eurytemora spp. (n=178-train=1818)	0.18	0.26	0.22					
Gastropoda (larvae/Limacina) (n=112-train=3272)	0.50	0.57	0.53					
Oithona spp. (n=98-train=5881)	0.35	0.81	0.48	0.8				
Bivalvia (larvae) (n=92-train=3764)	0.91	0.93	0.92					
Oikopleura spp. (n=70-train=5305)	0.81	0.79	0.80					
Hydrozoa (medusa) (n=64-train=4052)	0.14	0.28	0.19					
Harpacticoida- epibenthic (n=50-train=555)	0.06	0.02	0.03	0.6				
Calanus spp. (n=25-train=359)	0.62	0.72	0.67					
Chaetognatha (n=15-train=89)	0.76	0.87	0.81					
Chiridius spp. (n=14-train=1)	0.00	0.00	0.00	0.4				
Aglantha spp. (medusa) (n=10-train=22)	0.45	0.50	0.48					
Fritillaria spp. (n=7-train=6992)	0.09	0.43	0.15					
Echinodermata (larvae) (n=5-train=3043)	0.09	0.20	0.13					
Metridia spp. (n=2-train=16)	0.00	0.00	0.00	0.2				
Decapoda-non brachyura (larvae) (n=2-train=423)	0.03	0.50	0.05					
Cnidaria (larvae) (n=2-train=25)	0.00	0.00	0.00					
Obelia spp. (medusa) (n=1-train=1003)	0.01	1.00	0.03					
Polychaeta (larvae) (n=1-train=1577)	0.00	0.00	0.00	0.0				
Amphipoda (n=1-train=27)	0.00	0.00	0.00					
Tomopteris spp. (n=1-train=1)	0.00	0.00	0.00					
macro avg	0.32	0.44	0.34					
weighted avg	0.69	0.65	0.65					

precision recall f1-score

Predictions of discarded taxa from training

	Acartia spp.	0.0%	43.8% (n=14)	51.0% (n=2327)	8.3% (n=93)		50
	Aglantha spp. (medusa)	33.3% (n=2)	0.0%	0.0%	0.0%		
	Bivalvia (larvae)	0.0%	0.0%	0.0%	3.1% (n=35)		
	Calanus spp.	16.7% (n=1)	0.0%	0.0% (n=1)	0.0%		
	Centropages spp.	0.0%	0.0%	0.4% (n=20)	0.1% (n=1)		40
	Decapoda-non brachyura (larvae)	0.0%	0.0%	0.0% (n=2)	0.1% (n=1)		
	Echinodermata (larvae)	0.0%	0.0%	0.1% (n=6)	0.5% (n=6)		
T.	Eurytemora spp.	0.0%	3.1% (n=1)	1.3% (n=59)	0.4% (n=4)		
Predicted Taxa	Evadne spp.	0.0%	0.0%	13.9% (n=634)	29.2% (n=328)		30
_ pa	Fritillaria spp.	0.0%	0.0%	0.2% (n=10)	0.3% (n=3)		
licte	Gastropoda (larvae/Limacina)	0.0%	0.0%	0.2% (n=8)	6.5% (n=73)		
rec	Harpacticoida- epibenthic	0.0%	0.0%	0.1% (n=4)	0.1% (n=1)		20
	Hydrozoa (medusa)	0.0%	0.0%	0.2% (n=7)	8.5% (n=95)		
	Obelia spp. (medusa)	33.3% (n=2)	0.0%	0.2% (n=9)	0.9% (n=10)		
	Oikopleura spp.	16.7% (n=1)	0.0%	0.1% (n=3)	0.6% (n=7)		
	Oithona spp.	0.0%	0.0%	2.9% (n=133)	1.4% (n=16)		4.0
	Podon/Pleopsis spp.	0.0%	0.0%	6.5% (n=297)	31.8% (n=357)		10
	Polychaeta (larvae)	0.0%	0.0%	2.2% (n=101)	6.0% (n=67)		
	Pseudocalanus spp.	0.0%	43.8% (n=14)	4.4% (n=199)	0.4% (n=4)		
	Temora spp.	0.0%	9.4% (n=3)	16.3% (n=742)	2.0% (n=22)		0
		Anthodology hood heather the contraction of the c	$^{C_{m{a}}l_{m{a}}n_{m{o}id_{m{a}}}}_{n_{m{lpha}},2}$ $^{C_{m{a}}l_{m{a}}n_{m{o}id_{m{a}}}}$ $^{C_{m{a}}l_{m{a}}n_{m{o}id_{m{a}}}}$	Copepoda n≈4562 (unid)	Zooplanktoi n≥1123 (unid)	n (unid)	0
			450)				

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample Val Pred 1.0 -0.8 Relative Abundance 0.4 0.2 -0.0 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30

Sample Short ID

