Use of SCN features: Yes

Max learning objects: 200 objects/class Strategy N° 1

NL 2020 Selected Samples prediction using NL 2020 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

Temora spp.	46%	5%	3%	21%	<1%	<1%	2%	<1%	6%				12%			<	<1%	<1%	<1%				<1%	4%	
Acartia spp.	19%	35%	1%	16%	<1%	<1%	<1%		5%		<1%	<1%	19%					1%	<1%				<1%	<1%	
Evadne spp.	1%	<1%	86%	<1%		7%		<1%	2%	<1%		<1%	<1%						<1%					2%	<1%
Pseudocalanus spp.	22%	11%	<1%	49%	<1%	<1%	5%		2%				9%	<1%		<	<1%	<1%	<1%	<1%				<1%	
Centropages spp.	9%	19%		<1%	45%		24%						<1%	<1%						<1%			<1%	<1%	
Podon/Pleopsis spp.	12%		9%	3%		26%			<1%				2%	<1%			2%		<1%					44%	
Eurytemora spp.	5%	7%	6%	13%		<1%			25%				36%						2%					4%	
Gastropoda (larvae/Limacina)			3%			35%		38%		17%														8%	
Oithona spp.		3%	4%						88%				1%					1%	3%						
Bivalvia (larvae)								16%		84%															
Oikopleura spp.		1%					1%				70%			6%	11%			10%							
Hydrozoa (medusa)			12%			2%	3%					3%		3%		3	38%	3%					28%	8%	
Harpacticoida- epibenthic	2%	2%	2%	14%			4%		8%				68%												
Calanus spp.					8%									92%											
Chaetognatha				7%											93%										
Chiridius spp.	14%			21%										64%											
Aglantha spp. (medusa)																8	30%						20%		
Fritillaria spp.				14%					14%									57%	14%						
Echinodermata (larvae)			20%			20%			60%																
Metridia spp.				50%										50%											
apoda-non brachyura (larvae)														100%											
Cnidaria (larvae)				50%															50%						
Obelia spp. (medusa)																							100%		
Polychaeta (larvae)				100%																					
Amphipoda														100%											
Tomopteris spp.					100%																				
	Pemoro	Acartle Spp.	Spp.	PSellor De SPD.	ocalanus S	Podon Doges Spp.	Euryte Pleapsis S	Castrop Chora Spp.	Oithorn Pana	Bivalle Spp. Selimacine	Oikople danae	Mudros Pp.	Harpal (neduse	Calany (A)	Chaetog	Chiridius S	Aglantha Sop.	Fritillarie	Chinol Spp.	Metrial Remarks (le	Decapor	Chidal Chidal	Obelia (larvae)	Polycho Spp. (medi,	Amphipoda (lanae)

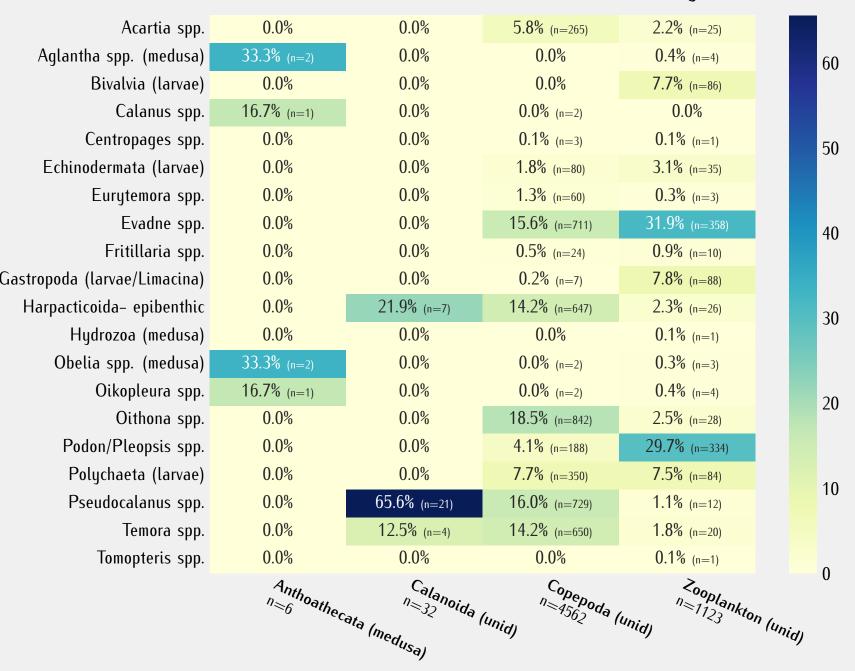
Predicted Values

n	Classification Report Matrix max 200 learning objects per class							
	precision	recall	f1-score					
Temora spp. (n=18103-train=200)	0.72	0.46	0.56					
Acartia spp. (n=13302-train=200)	0.79	0.35	0.49					
Evadne spp. (n=5228-train=200)	0.84	0.86	0.85					
Pseudocalanus spp. (n=3053-train=200)	0.20	0.49	0.29					
Centropages spp. (n=330-train=40)	0.81	0.45	0.58					
Podon/Pleopsis spp. (n=253-train=200)	0.11	0.26	0.15					
Eurytemora spp. (n=178-train=88)	0.00	0.00	0.00					
Gastropoda (larvae/Limacina) (n=112-train=110)	0.44	0.38	0.41					
Oithona spp. (n=98-train=200)	0.04	0.88	0.08					
Bivalvia (larvae) (n=92-train=71)	0.71	0.84	0.77					
Oikopleura spp. (n=70-train=200)	0.91	0.70	0.79					
Hydrozoa (medusa) (n=64-train=21)	0.50	0.03	0.06					
Harpacticoida- epibenthic (n=50-train=136)	0.01	0.68	0.01					
Calanus spp. (n=25-train=200)	0.47	0.92	0.62					
Chaetognatha (n=15-train=67)	0.64	0.93	0.76					
Chiridius spp. (n=14-train=1)	0.00	0.00	0.00					
Aglantha spp. (medusa) (n=10-train=21)	0.10	0.80	0.17					
Fritillaria spp. (n=7-train=200)	0.02	0.57	0.05					
Echinodermata (larvae) (n=5-train=200)	0.00	0.00	0.00					
Metridia spp. (n=2-train=15)	0.00	0.00	0.00					
ecapoda-non brachyura (larvae) (n=2-train=7)	0.00	0.00	0.00					
Cnidaria (larvae) (n=2-train=3)	0.00	0.00	0.00					
Obelia spp. (medusa) (n=1-train=43)	0.04	1.00	0.07					
Polychaeta (larvae) (n=1-train=200)	0.00	0.00	0.00					
Amphipoda (n=1-train=1)	0.00	0.00	0.00					
Tomopteris spp. (n=1-train=1)	0.00	0.00	0.00					
macro avg	0.28	0.41	0.26					
weighted avg	0.71	0.48	0.55					
		11	[4					

precision recall f1-score

Actual Values

Predictions of discarded taxa from training



Predicted Taxa

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample Val Pred 1.0 -

