Use of SCN features: Yes

Max learning objects: 200 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

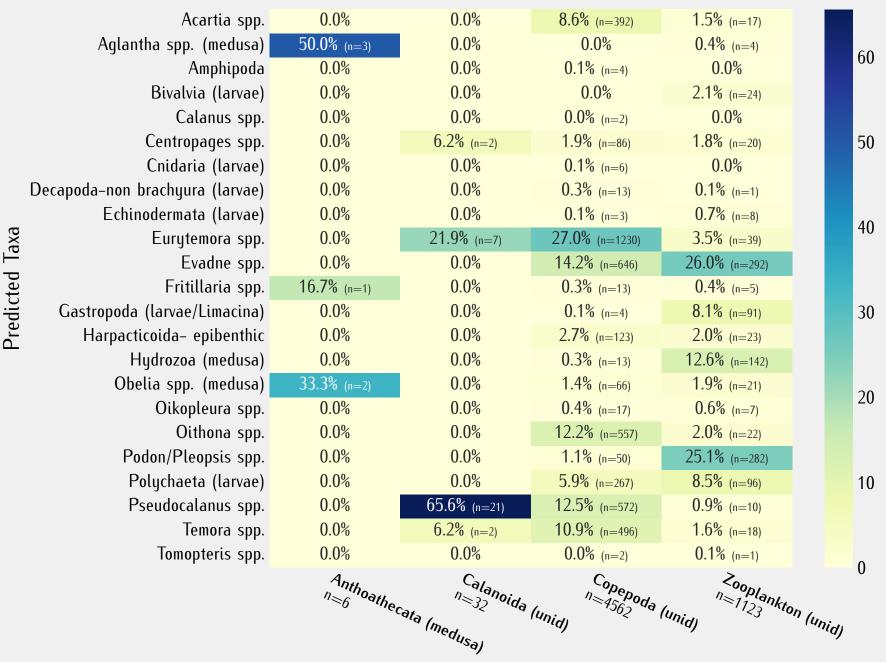
Temora spp.	43%	6%	2%	18%	4%	<1%	20%	<1%	3%		<1%	<1%	1%				<1%	<1%	<1%	<1%	<1%	<1%	2%	<1%
Acartia spp.	16%	32%	1%	17%	9%		17%		3%		<1%	<1%	2%					<1%		<1%	<1%	2%	<1%	<1%
Evadne spp.	<1%	<1%	78%	<1%		6%	2%	<1%	1%			6%	2%				<1%	<1%				<1%	2%	<1%
Pseudocalanus spp.	17%	11%	<1%	43%	10%		15%		<1%				<1%	<1%			<1%			2%	<1%	<1%	<1%	<1%
Centropages spp.	3%	2%		2%	87%								<1%							6%				
Podon/Pleopsis spp.	19%		8%	4%		<1%	12%					<1%	<1%				3%			14%	2%	12%	25%	
Eurytemora spp.	<1%	8%	3%	1%	<1%		74%		10%				2%										1%	
Gastropoda (larvae/Limacina)			2%			26%		46%		6%		8%											12%	
Oithona spp.		3%	1%				2%		87%				3%					2%				1%	1%	
Bivalvia (larvae)								16%		79%		4%												
Oikopleura spp.					4%						27%			7%	56%			3%		3%				
Hydrozoa (medusa)			3%		2%							6%		3%			44%	2%		5%		30%	6%	
Harpacticoida- epibenthic	4%	4%		32%	4%		22%						30%									2%	2%	
Calanus spp.					4%									64%						32%				
Chaetognatha				7%											93%									
Chiridius spp.	7%			21%										57%						14%				
Aglantha spp. (medusa)														10%			80%					10%		
Fritillaria spp.		14%					14%				14%							43% 14%						
Echinodermata (larvae)						20%			20%		20%		20%					20%						
Metridia spp.				50%										50%										
apoda–non brachyura (larvae)														50%						50%				
Cnidaria (larvae)																				50%			50%	
Obelia spp. (medusa)																						100%		
Polychaeta (larvae)				100%																				
Amphipoda														100%										
Tomopteris spp.														100%										
	Temore	Acartic Sp.	Sp.	Sellat.	Centro, Ocalanus St.	Podon, Obages Spp.	Pleasis	Costrop	Oithone Pords (larva	Bivalula SPP. Collinacina	Oitople (lange)	Alydro.	Harpal Too (medis	Caland Cicolda Ch	Chaetog SDD: Dibenthic	Chiridius anatha	Aglanth, SPD.	Fritillaria Sp. (medusa)	Metrid	Decape , Spp. , Inde	Chidal Add Non b.	Obelia (large) achyura (la	Polych (ned	Amphipoda (larvae)

Predicted Values

Classification Report Matrix

n	Classification Report Matrix max 200 learning objects per cla						
	precision	recall	f1-score				
<b>Temora spp.</b> (n=18103-train=200)	0.74	0.43	0.54				
Acartia spp. (n=13302-train=200)	0.75	0.32	0.45				
Evadne spp. (n=5228-train=200)	0.88	0.78	0.82				
Pseudocalanus spp. (n=3053-train=200)	0.19	0.43	0.26				
Centropages spp. (n=330-train=200)	0.11	0.87	0.20				
Podon/Pleopsis spp. (n=253-train=200)	0.00	0.00	0.00				
Eurytemora spp. (n=178-train=200)	0.02	0.74	0.04				
Gastropoda (larvae/Limacina) (n=112-train=200)	0.54	0.46	0.50				
Oithona spp. (n=98-train=200)	0.08	0.87	0.14				
Bivalvia (larvae) (n=92-train=200)	0.91	0.79	0.85				
Oikopleura spp. (n=70-train=200)	0.30	0.27	0.29				
<b>Hydrozoa (medusa)</b> (n=64-train=200)	0.01	0.06	0.02				
Harpacticoida- epibenthic (n=50-train=200)	0.03	0.30	0.05				
Calanus spp. (n=25-train=200)	0.37	0.64	0.47				
<b>Chaetognatha</b> (n=15-train=89)	0.26	0.93	0.41				
Chiridius spp. (n=14-train=1)	0.00	0.00	0.00				
Aglantha spp. (medusa) (n=10-train=22)	0.10	0.80	0.18				
Fritillaria spp. (n=7-train=200)	0.06	0.43	0.11				
Echinodermata (larvae) (n=5-train=200)	0.00	0.00	0.00				
Metridia spp. (n=2-train=16)	0.00	0.00	0.00				
ecapoda-non brachyura (larvae) (n=2-train=200)	0.01	0.50	0.01				
Cnidaria (larvae) (n=2-train=25)	0.00	0.00	0.00				
Obelia spp. (medusa) (n=1-train=200)	0.00	1.00	0.01				
Polychaeta (larvae) (n=1-train=200)	0.00	0.00	0.00				
<b>Amphipoda</b> (n=1-train=27)	0.00	0.00	0.00				
Tomopteris spp. (n=1-train=1)	0.00	0.00	0.00				
macro avg	0.21	0.41	0.21				
weighted avg	0.70	0.44	0.52				
	precision	recall	f1-score				

## Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

