

Use of SCN features: Yes
Max learning objects: 5000 objects/class
Strategy N° 8

NL 2021 Selected Samples prediction using all regions training set,
Learning with selected samples classes with no low global training instances, with extra regional training categories,
No Calanoida (ci-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max 5000 learning objects per class

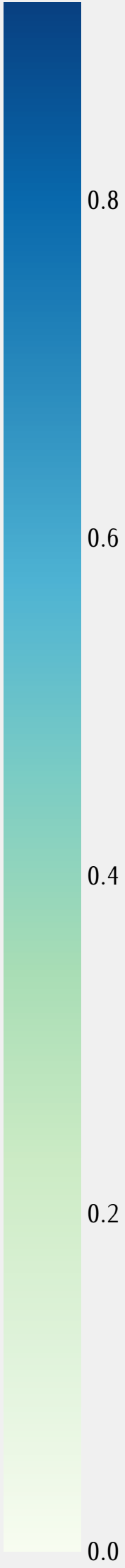
Actual Values

Acartia spp.	65%	<1%	7%	11%	1%			2%	<1%	7%			<1%			<1%	<1%			4%	<1%		<1%		<1%	<1%	<1%
Evadne spp.		86%	<1%	<1%	<1%	<1%	4%	<1%		<1%	2%	<1%	6%	<1%	<1%		<1%					2%	<1%	<1%			
Temora spp.	13%	2%	55%	9%	2%	<1%	<1%	6%		7%			<1%			<1%	<1%			4%			<1%		<1%		<1%
Pseudocalanus spp.	21%		9%	52%				3%		9%			<1%			<1%			<1%	6%			<1%			<1%	
Oithona spp.	13%	<1%	<1%	<1%	77%			1%		3%	<1%		<1%			2%				<1%			<1%		<1%		
Bryozoa (larvae)		23%			<1%	54%	2%	1%					<1%	8%		<1%			1%				6%	2%			
Podon/Pleopsis spp.	1%	13%	20%	3%			17%	4%	<1%	1%		<1%		<1%		<1%		15%		4%		6%	10%		3%		<1%
Calanoida (ci-ciii)	12%	11%	13%	5%	5%	2%	12%	25%		5%						<1%		<1%	<1%	3%		<1%	4%	<1%			<1%
Oikopleura spp.	<1%		3%	2%	<1%					73%	<1%					11%		2%									
Centropages spp.	8%		3%								81%										5%	3%					
Echinodermata (larvae)	2%				18%		2%	2%	2%			12%						50%		2%			2%	6%		2%	
Gastropoda (larvae/Limacina)		2%					2%						68%		4%	15%			9%								
Harpacticoida- epibenthic	15%	2%	9%	13%	4%			4%					40%							11%			2%				
Hydrozoa (medusa)						2%	6%				2%			30%		4%		2%				2%	11%		40%		
Bivalvia (larvae)						5%	2%					7%		7%	70%									9%			
Fritillaria spp.					12%					35%						53%											
Microcalanus spp.	3%	6%	10%	13%			10%	29%				3%				13%		3%		6%			3%				
Chaetognatha										39%																	
Polychaeta (larvae)	5%			5%			10%					5%	5%					40%				5%	25%				
Calanus spp.				14%						7%									71%			7%					
Eurytemora spp.	10%		20%	30%						30%										10%							
Tortanus spp.										50%												50%					
Decapoda-non brachyura (larvae)																			100%								

Acartia spp.
Evadne spp.
Temora spp.
Pseudocalanus spp.
Oithona spp.
Bryozoa (larvae)
Podon/Pleopsis spp.
Calanoida (ci-ciii)
Oikopleura spp.
Centropages spp.
Echinodermata (larvae)
Gastropoda (larvae/Limacina)
Harpacticoida- epibenthic
Hydrozoa (medusa)
Bivalvia (larvae)
Fritillaria spp.
Microcalanus spp.
Chaetognatha
Polychaeta (larvae)
Calanus spp.
Eurytemora spp.
Tortanus spp.
Decapoda-non brachyura (larvae)
Cirrripedia (larvae)
Copepoda (nauplii)
Obelia spp. (medusa)
Euphausiacea (larvae)
Euphausiacea (nauplii)

Extra
training
classes

	precision	recall	f1-score
Acartia spp. (n=2490-train=5000)	0.77	0.65	0.71
Evadne spp. (n=1931-train=5000)	0.92	0.86	0.89
Temora spp. (n=1416-train=5000)	0.69	0.55	0.61
Pseudocalanus spp. (n=1044-train=4845)	0.56	0.52	0.54
Oithona spp. (n=345-train=5000)	0.74	0.77	0.75
Bryozoa (larvae) (n=248-train=1142)	0.92	0.54	0.68
Podon/Pleopsis spp. (n=230-train=5000)	0.27	0.17	0.21
Calanoida (ci-ciii) (n=130-train=5000)	0.14	0.25	0.17
Oikopleura spp. (n=115-train=5000)	0.73	0.73	0.73
Centropages spp. (n=88-train=3620)	0.15	0.81	0.26
Echinodermata (larvae) (n=50-train=3043)	0.67	0.12	0.20
Gastropoda (larvae/Limacina) (n=47-train=3272)	0.43	0.68	0.53
Harpacticoida- epibenthic (n=47-train=555)	0.54	0.40	0.46
Hydrozoa (medusa) (n=47-train=4052)	0.09	0.30	0.14
Bivalvia (larvae) (n=44-train=3764)	0.78	0.70	0.74
Fritillaria spp. (n=34-train=5000)	0.23	0.53	0.32
Microcalanus spp. (n=31-train=80)	0.40	0.13	0.20
Chaetognatha (n=28-train=89)	0.88	0.54	0.67
Polychaeta (larvae) (n=20-train=1577)	0.13	0.40	0.20
Calanus spp. (n=14-train=359)	0.67	0.71	0.69
Eurytemora spp. (n=10-train=1818)	0.00	0.10	0.01
Tortanus spp. (n=2-train=203)	0.14	0.50	0.22
Decapoda-non brachyura (larvae) (n=1-train=423)	0.00	0.00	0.00
Cirrripedia (larvae) (n=0-train=5000)	-	-	-
Copepoda (nauplii) (n=0-train=5000)	-	-	-
Obelia spp. (medusa) (n=0-train=1003)	-	-	-
Euphausiacea (larvae) (n=0-train=87)	-	-	-
Euphausiacea (nauplii) (n=0-train=145)	-	-	-
macro avg (corr)	0.47	0.48	0.43
weighted avg	0.72	0.64	0.67
	precision	recall	f1-score



[illegible]

Extra training classes

Relative Abundance of Top Taxonomic Instances per Sample

