

Use of SCN features: No
Max learning objects: 5000 objects/class
Strategy N° 6

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

Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max 5000 learning objects per class

Actual Values

	Temora spp.	54%	9%	3%	16%	3%	<1%	6%	<1%	<1%	<1%	<1%	<1%					<1%			<1%	<1%	1%	<1%		<1%	3%	2%	<1%	<1%	<1%	<1%
	Acartia spp.	22%	48%	<1%	11%	6%	<1%	4%		1%		<1%	<1%					<1%			<1%	<1%					2%	1%	<1%	<1%	<1%	<1%
	Evadne spp.	<1%	<1%	81%	<1%		6%	<1%	1%	<1%	<1%		3%	<1%				<1%			<1%	<1%				<1%	<1%	5%		<1%		
	Pseudocalanus spp.	26%	14%	<1%	44%	7%		6%		<1%				<1%	<1%						<1%	<1%	<1%				2%	<1%		<1%	<1%	<1%
	Centropages spp.	8%	3%		1%	87%								<1%							<1%	<1%										
	Podon/Pleopsis spp.	23%	<1%	8%	4%		13%	3%					<1%								7%	2%	31%				2%	7%		1%		
	Eurytemora spp.	5%	15%	3%	2%	1%	<1%	60%		2%				1%													7%	3%				<1%
Gastropoda (larvae/Limacina)				<1%			20%		61%		7%		4%										4%				2%	2%				
	Oithona spp.		6%							85%				1%				2%	2%								2%	2%				
	Bivalvia (larvae)							5%			92%		2%																			
	Oikopleura spp.					1%					80%			1%	6%			4%		7%												
	Hydrozoa (medusa)	5%		3%									30%	2%			11%	2%				41%	6%				2%					
Harpacticoida- epibenthic		8%	12%		30%			10%						36%							2%						2%					
	Calanus spp.				8%									84%						8%												
	Chaetognatha				7%							7%			87%																	
	Chiridius spp.	7%			43%										14%						36%											
	Aglantha spp. (medusa)															60%						40%										
	Fritillaria spp.		14%									29%						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%																					

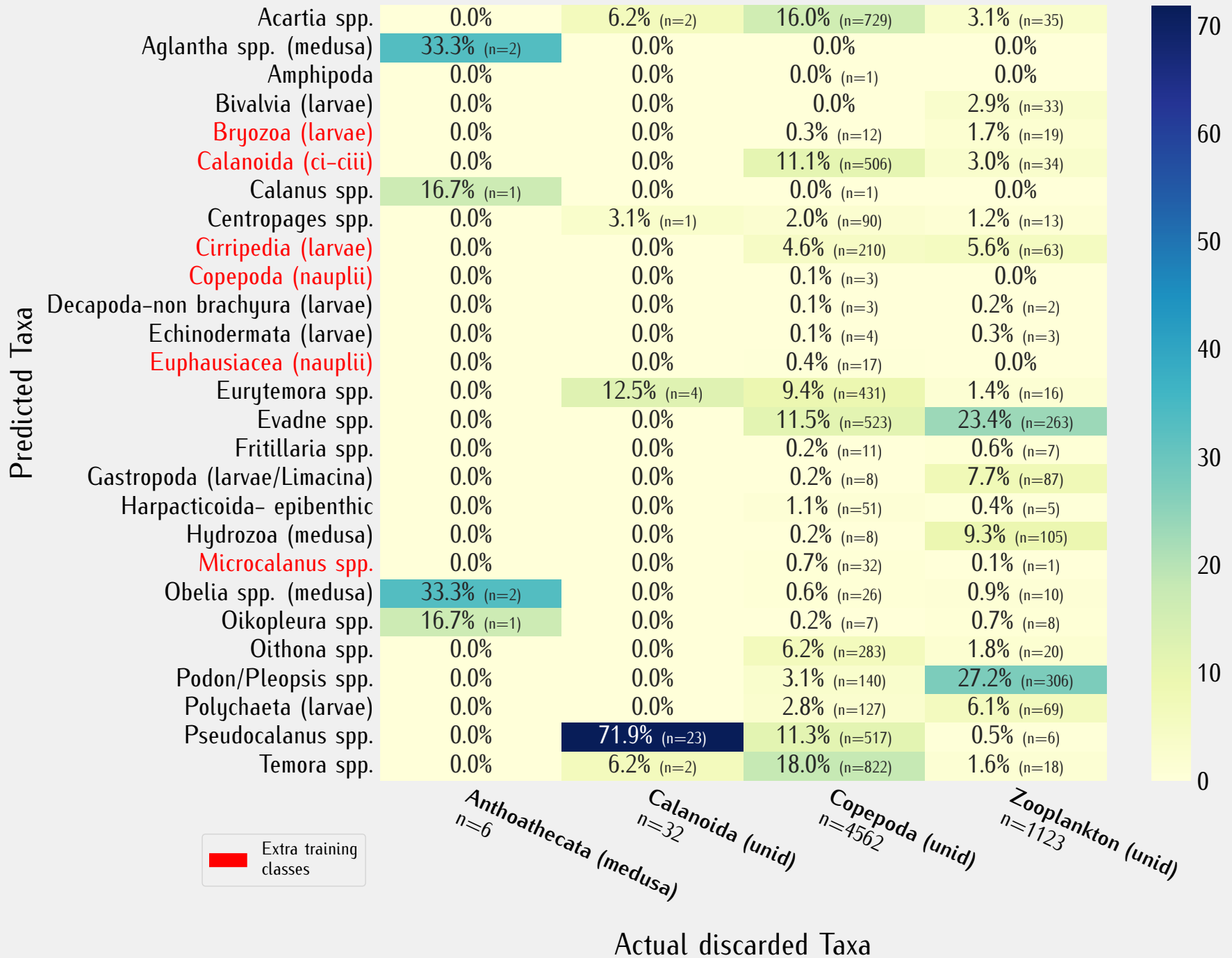
Predicted Values

Extra
training
classes

	precision	recall	f1-score
Temora spp. (n=18103-train=5000)	0.72	0.54	0.62
Acartia spp. (n=13302-train=5000)	0.75	0.48	0.59
Evadne spp. (n=5228-train=5000)	0.87	0.81	0.84
Pseudocalanus spp. (n=3053-train=4845)	0.23	0.44	0.31
Centropages spp. (n=330-train=3620)	0.16	0.87	0.27
Podon/Pleopsis spp. (n=253-train=5000)	0.07	0.13	0.09
Eurytemora spp. (n=178-train=1818)	0.05	0.60	0.10
Gastropoda (larvae/Limacina) (n=112-train=3272)	0.45	0.61	0.52
Oithona spp. (n=98-train=5000)	0.17	0.85	0.28
Bivalvia (larvae) (n=92-train=3764)	0.90	0.92	0.91
Oikopleura spp. (n=70-train=5000)	0.74	0.80	0.77
Hydrozoa (medusa) (n=64-train=4052)	0.11	0.30	0.16
Harpacticoida- epibenthic (n=50-train=555)	0.07	0.36	0.12
Calanus spp. (n=25-train=359)	0.72	0.84	0.78
Chaetognatha (n=15-train=89)	0.76	0.87	0.81
Chiridius spp. (n=14-train=1)	0.00	0.00	0.00
Aglantha spp. (medusa) (n=10-train=22)	0.46	0.60	0.52
Fritillaria spp. (n=7-train=5000)	0.05	0.43	0.09
Echinodermata (larvae) (n=5-train=3043)	0.00	0.00	0.00
Metridia spp. (n=2-train=16)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=2-train=423)	0.02	0.50	0.04
Cnidaria (larvae) (n=2-train=25)	0.00	0.00	0.00
Obelia spp. (medusa) (n=1-train=1003)	0.01	1.00	0.02
Polychaeta (larvae) (n=1-train=1577)	0.00	0.00	0.00
Amphipoda (n=1-train=27)	0.00	0.00	0.00
Tomopteris spp. (n=1-train=1)	0.00	0.00	0.00
Bryozoa (larvae) (n=0-train=1142)	-	-	-
Calanoida (ci-ciii) (n=0-train=5000)	-	-	-
Cirripedia (larvae) (n=0-train=5000)	-	-	-
Copepoda (nauplii) (n=0-train=5000)	-	-	-
Microcalanus spp. (n=0-train=80)	-	-	-
Euphausiacea (larvae) (n=0-train=87)	-	-	-
Euphausiacea (nauplii) (n=0-train=145)	-	-	-
macro avg (corr)	0.28	0.46	0.30
weighted avg	0.70	0.55	0.60
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

