

Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 8

NL 2020 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 Anthoathecata, Calanoida, Copepoda, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Actual Values

Temora spp.	38%	6%	1%	18%	4%	<1%	15%	<1%	2%		<1%	<1%	<1%		<1%		<1%	<1%	<1%	<1%	<1%	<1%		9%	<1%	4%
Acartia spp.	13%	31%	<1%	17%	8%		14%		2%		<1%	<1%	<1%		<1%		<1%	1%	<1%	<1%	<1%	<1%		3%	1%	5%
Evadne spp.	<1%		69%	<1%		5%	<1%	<1%	1%	<1%	<1%	7%	1%		<1%	<1%		<1%	<1%	2%	<1%	6%		5%		<1%
Pseudocalanus spp.	14%	12%		42%	9%		12%		<1%				<1%	<1%			2%	<1%	<1%		<1%			5%	2%	3%
Centropages spp.	2%	2%		1%	85%		<1%										7%								3%	
Podon/Pleopsis spp.	12%		2%	1%		<1%	3%					<1%	<1%				16%	9%	23%	<1%		2%		25%	<1%	3%
Eurytemora spp.		9%	1%				61%		6%				<1%					1%				<1%		15%		5%
Gastropoda (larvae/Limacina)			<1%			24%		46%		6%		11%							10%	2%				<1%		
Oithona spp.		5%					3%		83%		1%		4%					1%		1%		1%				1%
Bivalvia (larvae)								15%		78%		7%														
Oikopleura spp.						1%					29%			4%	54%	7%		4%								
Hydrozoa (medusa)			2%		2%							14%		8%		2%		9%	55%	5%				5%		
Harpacticoida- epibenthic	4%	4%		28%	2%		20%						30%							2%				6%	2%	2%
Calanus spp.					4%										68%			28%								
Chaetognatha																93%									7%	
Fritillaria spp.		14%					14%			14%							43%	14%								
Echinodermata (larvae)						20%			20%		20%		20%			20%										
Decapoda-non brachyura (larvae)														50%				50%								
Obelia spp. (medusa)																			100%							
Polychaeta (larvae)				100%																						
Temora spp.																										
Acartia spp.																										
Evadne spp.																										
Pseudocalanus spp.																										
Centropages spp.																										
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Obelia spp. (medusa)																										
Polychaeta (larvae)																										

Predicted Values

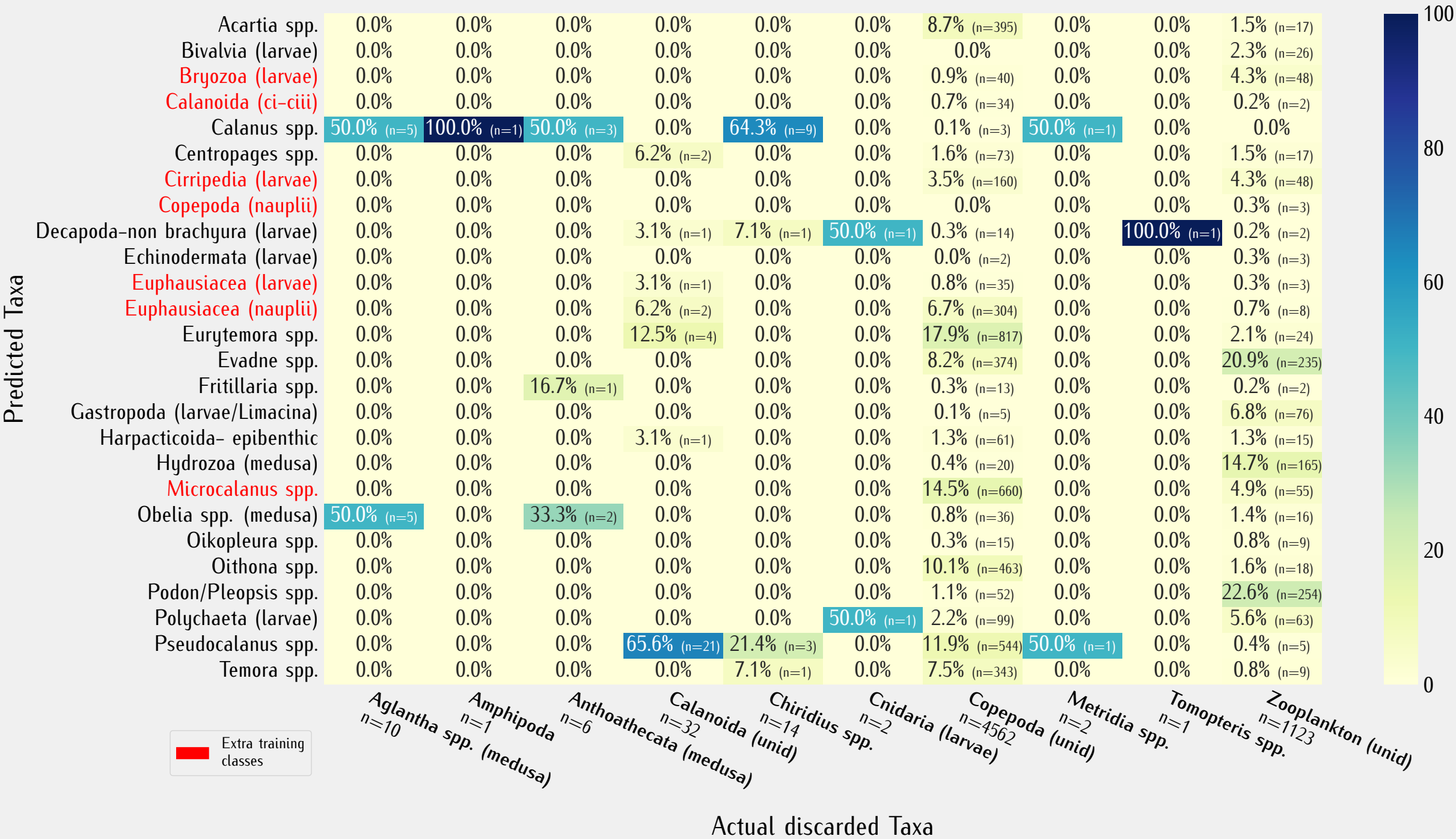
Extra
training
classes

Classification Report Matrix
max 200 learning objects per class

	precision	recall	f1-score
Temora spp. (n=18103-train=200)	0.76	0.38	0.50
Acartia spp. (n=13302-train=200)	0.74	0.31	0.44
Evadne spp. (n=5228-train=200)	0.93	0.69	0.79
Pseudocalanus spp. (n=3053-train=200)	0.19	0.42	0.26
Centropages spp. (n=330-train=200)	0.12	0.85	0.21
Podon/Pleopsis spp. (n=253-train=200)	0.00	0.00	0.00
Eurytemora spp. (n=178-train=200)	0.02	0.61	0.04
Gastropoda (larvae/Limacina) (n=112-train=200)	0.57	0.46	0.51
Oithona spp. (n=98-train=200)	0.11	0.83	0.19
Bivalvia (larvae) (n=92-train=200)	0.90	0.78	0.84
Oikopleura spp. (n=70-train=200)	0.33	0.29	0.31
Hydrozoa (medusa) (n=64-train=200)	0.02	0.14	0.04
Harpacticoida- epibenthic (n=50-train=200)	0.06	0.30	0.10
Calanus spp. (n=25-train=200)	0.46	0.68	0.55
Chaetognatha (n=15-train=89)	0.27	0.93	0.42
Fritillaria spp. (n=7-train=200)	0.08	0.43	0.14
Echinodermata (larvae) (n=5-train=200)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=2-train=200)	0.01	0.50	0.01
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
Bryozoa (larvae) (n=0-train=200)	-	-	-
Calanoida (ci-ciii) (n=0-train=200)	-	-	-
Cirripedia (larvae) (n=0-train=200)	-	-	-
Copepoda (nauplii) (n=0-train=200)	-	-	-
Microcalanus spp. (n=0-train=80)	-	-	-
Euphausiacea (larvae) (n=0-train=87)	-	-	-
Euphausiacea (nauplii) (n=0-train=145)	-	-	-
macro avg (corr)	0.28	0.48	0.27
weighted avg	0.71	0.40	0.49
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

