

Use of SCN features: No
Max learning objects: 200 objects/class
Strategy N° 2

NL 2021 Selected Samples prediction using NL 2021 training set,
Learning with all classes present in the selected samples, with extra training categories,
No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max 200 learning objects per class

Actual Values

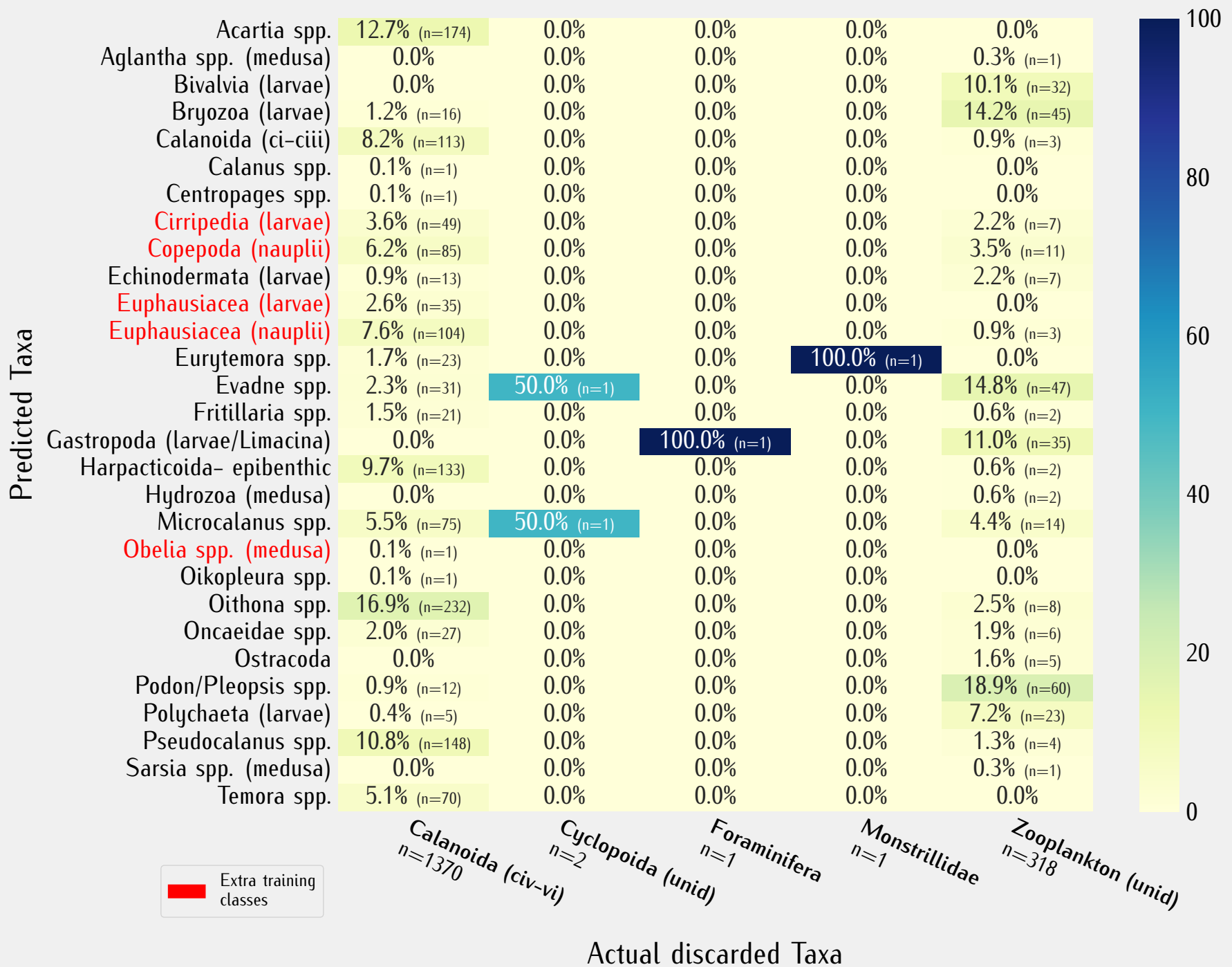
	Predicted Values																															
Acartia spp.	47%	<1%	7%	15%	4%	<1%		3%	<1%	<1%	<1%	10%				1%	3%			2%	<1%					<1%	<1%	<1%	3%	4%		
Evadne spp.		77%		<1%	<1%	7%	6%	<1%			<1%		<1%	2%	<1%		<1%		<1%				<1%				3%	2%	<1%		<1%	
Temora spp.	11%	<1%	35%	10%	5%	<1%	<1%	4%		<1%		4%			<1%	3%		<1%	3%	<1%	<1%						4%	4%		1%	14%	
Pseudocalanus spp.	19%		10%	45%	<1%		<1%	4%		<1%	<1%	4%			<1%	5%		<1%	<1%	7%							<1%	<1%		2%	2%	
Oithona spp.	8%	<1%	<1%	<1%	80%	<1%		<1%			1%	<1%			3%				<1%		1%						<1%			<1%	2%	
Bryozoa (larvae)		4%				83%	3%				1%			1%	<1%	<1%						<1%					<1%	5%				
Podon/Pleopsis spp.		6%	5%	<1%	<1%	2%	23%		<1%	<1%		<1%				17%		15%		<1%							13%	15%			<1%	
Calanoida (ci-ciii)	10%	6%	2%	5%	5%	2%	6%	2%			<1%	3%				19%			2%	3%	<1%						5%	25%			5%	
Oikopleura spp.				3%	3%	<1%		<1%	63%		<1%				10%		10%		3%	<1%					<1%					4%	<1%	
Centropages spp.	17%		5%	1%						69%									2%					2%						3%		
Echinodermata (larvae)	6%				24%		2%		2%		26%		2%			30%		4%									2%				2%	
Harpacticoida- epibenthic		2%	4%		9%		4%				60%					2%					4%								4%	6%	4%	
Hydrozoa (medusa)		11%	2%			9%	9%				2%		6%		2%	11%	2%		2%		13%	2%					17%		13%			
Gastropoda (larvae/Limacina)		4%					13%						64%	11%				2%		4%			2%									
Bivalvia (larvae)						5%	2%							14%	80%																	
Fritillaria spp.					12%			9%		6%						71%					3%											
Microcalanus spp.		6%		3%			6%				6%					48%	10%										3%	10%			6%	
Chaetognatha								18%									75%	4%		4%												
Polychaeta (larvae)				10%		5%				5%			5%		5%		35%						5%				10%	15%			5%	
Calanus spp.									7%										93%													
Eurytemora spp.	30%		20%	10%							20%								20%													
Aglantha spp. (medusa)								11%												67%		11%							11%			
Oncaeidae spp.							17%			67%											17%											
Sarsia spp. (medusa)																			25%			25%					25%		25%			
Ostracoda					100%																											
Tortanus spp.	50%																						50%									
Decapoda-non brachyura (larvae)																			100%													

Extra
training
classes

	precision	recall	f1-score
Acartia spp. (n=2490-train=200)	0.74	0.47	0.57
Evadne spp. (n=1931-train=200)	0.96	0.77	0.86
Temora spp. (n=1416-train=200)	0.63	0.35	0.45
Pseudocalanus spp. (n=1044-train=200)	0.47	0.45	0.46
Oithona spp. (n=345-train=200)	0.56	0.80	0.66
Bryozoa (larvae) (n=248-train=119)	0.56	0.83	0.67
Podon/Pleopsis spp. (n=230-train=200)	0.26	0.23	0.25
Calanoida (ci-ciii) (n=130-train=200)	0.01	0.02	0.01
Oikopleura spp. (n=115-train=200)	0.86	0.63	0.73
Centropages spp. (n=88-train=40)	0.85	0.69	0.76
Echinodermata (larvae) (n=50-train=200)	0.31	0.26	0.28
Harpacticoida- epibenthic (n=47-train=136)	0.07	0.60	0.12
Hydrozoa (medusa) (n=47-train=21)	0.60	0.06	0.12
Gastropoda (larvae/Limacina) (n=47-train=110)	0.43	0.64	0.52
Bivalvia (larvae) (n=44-train=71)	0.67	0.80	0.73
Fritillaria spp. (n=34-train=200)	0.25	0.71	0.37
Microcalanus spp. (n=31-train=80)	0.06	0.48	0.11
Chaetognatha (n=28-train=67)	0.66	0.75	0.70
Polychaeta (larvae) (n=20-train=200)	0.12	0.35	0.18
Calanus spp. (n=14-train=200)	0.54	0.93	0.68
Eurytemora spp. (n=10-train=88)	0.01	0.20	0.02
Aglantha spp. (medusa) (n=9-train=21)	0.40	0.67	0.50
Oncaeidæ spp. (n=6-train=16)	0.03	0.17	0.05
Sarsia spp. (medusa) (n=4-train=4)	0.33	0.25	0.29
Ostracoda (n=2-train=6)	0.00	0.00	0.00
Tortanus spp. (n=2-train=4)	0.25	0.50	0.33
Decapoda-non brachyura (larvae) (n=1-train=7)	0.00	0.00	0.00
Cirripedia (larvae) (n=0-train=200)	-	-	-
Copepoda (nauplii) (n=0-train=200)	-	-	-
Obelia spp. (medusa) (n=0-train=43)	-	-	-
Euphausiacea (larvae) (n=0-train=75)	-	-	-
Euphausiacea (nauplii) (n=0-train=122)	-	-	-
macro avg (corr)	0.39	0.47	0.39
weighted avg	0.69	0.53	0.58
	precision	recall	f1-score



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

