

Use of SCN features: No
Max learning objects: 200 objects/class
Strategy N° 1

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

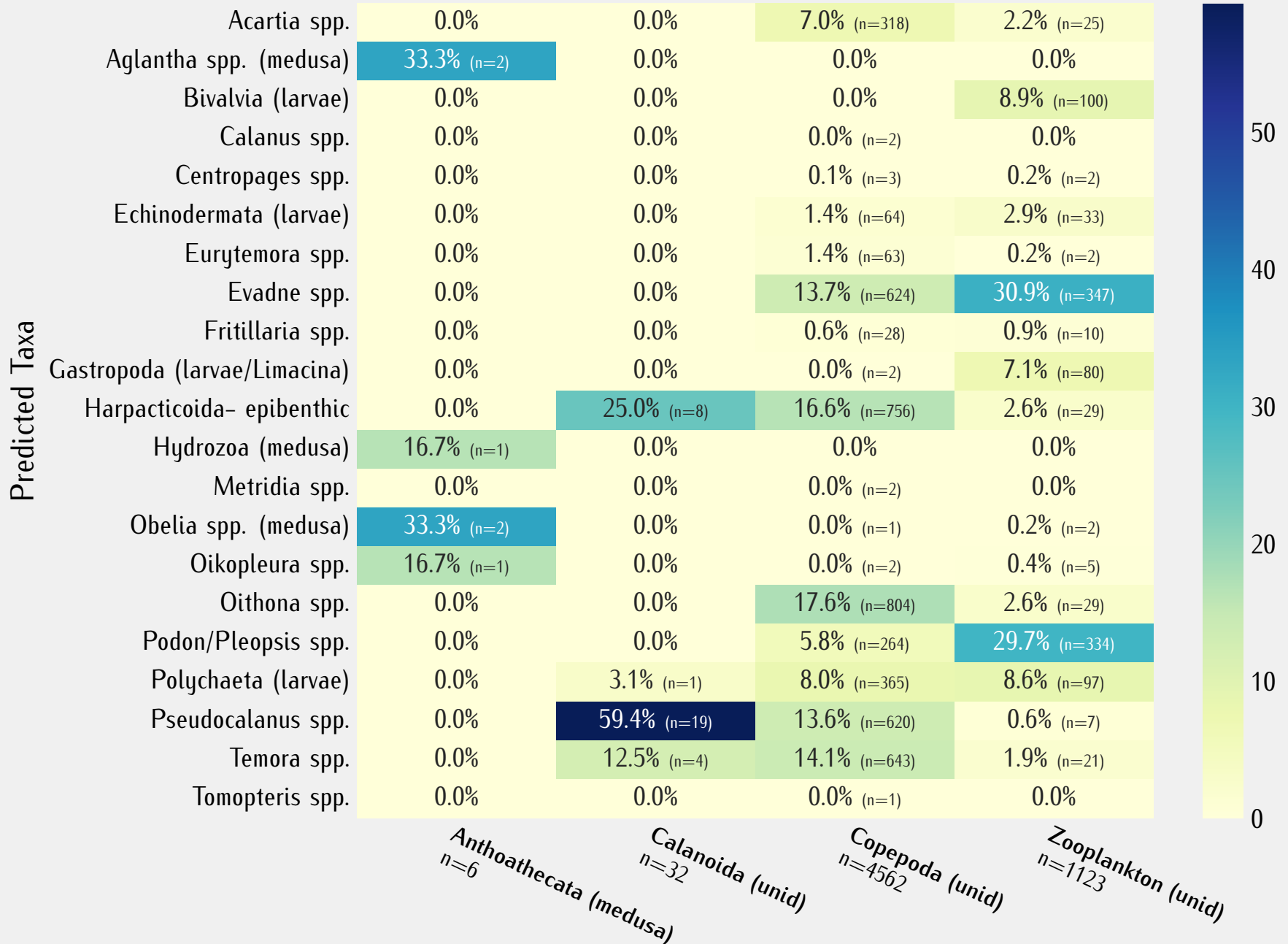
Confusion Matrix – In percent of Actual Value

Actual Values																										
	Temora spp.	Acartia spp.	Evadne spp.	Pseudocalanus spp.	Centropages spp.	Podon/Pleopsis spp.	Eurytemora spp.	Gastropoda (larvae/Limacina)	Oithona spp.	Bivalvia (larvae)	Oikopleura spp.	Hydrozoa (medusa)	Harpacticoida- epibenthic	Calanus spp.	Chaetognatha	Chiridius spp.	Aglantha spp. (medusa)	Fritillaria spp.	Echinodermata (larvae)	Metridia spp.	Decapoda-non brachyura (larvae)	Cnidaria (larvae)	Obelia spp. (medusa)	Polychaeta (larvae)	Amphipoda	Tomopteris spp.
	46%	6%	3%	16%	<1%	1%	2%	<1%	6%	<1%			15%				<1%	<1%	<1%				<1%	4%		<1%
	20%	37%	1%	13%	<1%	<1%	2%		5%		<1%	<1%	19%					<1%	<1%				<1%	<1%		
	<1%	<1%	83%	<1%		9%		<1%	2%	<1%			<1%				<1%		<1%					2%		
	24%	12%	<1%	45%		<1%	5%		2%			<1%	<1%	<1%	<1%									1%		
	9%	13%		<1%	46%		28%						<1%							2%			<1%			
	9%		5%	4%		38%			<1%				2%							<1%				41%		<1%
	5%	7%	5%	8%		2%			25%				43%					2%						2%		<1%
			2%			34%		39%		15%														10%		
		3%	3%						88%				1%						2%	3%						
							8%		92%																	
					1%		1%				64%			1%	19%			10%		1%			1%			
			9%			5%	3%			2%	6%		2%				36%	2%					25%	11%		
	4%	2%		10%		2%		8%					72%							2%						
					4%		8%							84%						4%						
															60%								7%	33%		
	7%			29%										64%												
											20%						40%						30%		10%	
								14%		14%							57%	14%								
			20%			20%		60%																		
				50%											50%											
													100%													
	50%																					50%				
																								100%		
				100%																						
					100%																					
						100%																				

Classification Report Matrix
max 200 learning objects per class

	precision	recall	f1-score
Temora spp. (n=18103-train=200)	0.71	0.46	0.56
Acartia spp. (n=13302-train=200)	0.77	0.37	0.50
Evadne spp. (n=5228-train=200)	0.86	0.83	0.85
Pseudocalanus spp. (n=3053-train=200)	0.23	0.45	0.30
Centropages spp. (n=330-train=40)	0.67	0.46	0.55
Podon/Pleopsis spp. (n=253-train=200)	0.10	0.38	0.16
Eurytemora spp. (n=178-train=88)	0.00	0.00	0.00
Gastropoda (larvae/Limacina) (n=112-train=110)	0.51	0.39	0.44
Oithona spp. (n=98-train=200)	0.04	0.88	0.08
Bivalvia (larvae) (n=92-train=71)	0.73	0.92	0.82
Oikopleura spp. (n=70-train=200)	0.87	0.64	0.74
Hydrozoa (medusa) (n=64-train=21)	0.57	0.06	0.11
Harpacticoida- epibenthic (n=50-train=136)	0.01	0.72	0.01
Calanus spp. (n=25-train=200)	0.54	0.84	0.66
Chaetognatha (n=15-train=67)	0.41	0.60	0.49
Chiridius spp. (n=14-train=1)	0.00	0.00	0.00
Aglantha spp. (medusa) (n=10-train=21)	0.12	0.40	0.19
Fritillaria spp. (n=7-train=200)	0.03	0.57	0.05
Echinodermata (larvae) (n=5-train=200)	0.00	0.00	0.00
Metridia spp. (n=2-train=15)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=2-train=7)	0.00	0.00	0.00
Cnidaria (larvae) (n=2-train=3)	0.00	0.00	0.00
Obelia spp. (medusa) (n=1-train=43)	0.04	1.00	0.07
Polychaeta (larvae) (n=1-train=200)	0.00	0.00	0.00
Amphipoda (n=1-train=1)	0.00	0.00	0.00
Tomopteris spp. (n=1-train=1)	0.00	0.00	0.00
macro avg	0.28	0.38	0.25
weighted avg	0.70	0.48	0.55
	precision	recall	f1-score

Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

