

Use of SCN features: Yes
Max learning objects: 20000 objects/class
Strategy N° 1

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

Confusion Matrix - In percent of Actual Value

Classification Report Matrix
max 20000 learning objects per class

Actual Values

		Predicted Values																											
Actual Values		Acartia spp.	Evadne spp.	Temora spp.	Pseudocalanus spp.	Oithona spp.	Bryozoa (larvae)	Podon/Pleopsis spp.	Calanoida (ci-ciii)	Oikopleura spp.	Centropages spp.	Echinodermata (larvae)	Harpacticoida- epibenthic	Hydrozoa (medusa)	Gastropoda (larvae/Limacina)	Bivalvia (larvae)	Fritillaria spp.	Microcalanus spp.	Chaetognatha	Polychaeta (larvae)	Calanus spp.	Eurytemora spp.	Aglantha spp. (medusa)	Oncaeidae spp.	Sarsia spp. (medusa)	Ostracoda	Tortanus spp.	Decapoda-non brachyura (larvae)	
		73%	<1%	7%	9%	3%			7%				<1%			<1%			<1%										
			95%	<1%	<1%	<1%	<1%	2%	<1%					<1%	<1%	<1%			<1%										
		14%	2%	56%	8%	3%			16%		<1%		<1%			<1%			<1%										
		24%		14%	54%	<1%			7%				<1%					<1%			<1%								
		12%	1%	1%		79%	<1%		4%			<1%				2%													
			56%				36%	<1%	3%			<1%			1%	<1%	1%			<1%									
		1%	20%	20%	3%			14%	17%							<1%	<1%		25%										
		12%	15%	9%	6%	3%		5%	48%										<1%			<1%							
				3%	3%	3%				59%		<1%							29%		<1%		2%						
		62%		8%	3%						23%	1%											1%					1%	
		4%				20%		2%	6%	2%		20%							46%										
		32%	2%	6%	11%	9%			11%			30%																	
			30%					2%	2%			4%							26%			21%	4%		11%				
			9%						15%								57%	11%				9%							
								5%	5%								16%	75%											
							15%				3%	3%							79%										
			13%	6%	13%					52%											10%		6%						
											39%									11%		43%	4%	4%					
		5%	15%		5%	10%			15%														50%						
		7%			14%																			79%					
		40%		30%	30%																								
																									11%	11%		78%	
		17%			17%	17%			17%			33%																	
															25%		50%									25%			
			50%				50%																						
		50%																					50%						
																								100%					

		precision	recall	f1-score
Acartia spp. (n=2490-train=5448)		0.76	0.73	0.74
Evadne spp. (n=1931-train=2845)		0.87	0.95	0.91
Temora spp. (n=1416-train=5148)		0.66	0.56	0.61
Pseudocalanus spp. (n=1044-train=4552)		0.59	0.54	0.56
Oithona spp. (n=345-train=1409)		0.66	0.79	0.72
Bryozoa (larvae) (n=248-train=119)		0.95	0.36	0.52
Podon/Pleopsis spp. (n=230-train=201)		0.35	0.14	0.20
Calanoida (ci-ciii) (n=130-train=3713)		0.09	0.48	0.16
Oikopleura spp. (n=115-train=761)		0.84	0.59	0.69
Centropages spp. (n=88-train=40)		0.95	0.23	0.37
Echinodermata (larvae) (n=50-train=276)		0.56	0.20	0.29
Harpacticoida- epibenthic (n=47-train=136)		0.74	0.30	0.42
Hydrozoa (medusa) (n=47-train=21)		0.00	0.00	0.00
Gastropoda (larvae/Limacina) (n=47-train=110)		0.52	0.57	0.55
Bivalvia (larvae) (n=44-train=71)		0.80	0.75	0.78
Fritillaria spp. (n=34-train=3447)		0.23	0.79	0.35
Microcalanus spp. (n=31-train=80)		0.43	0.10	0.16
Chaetognatha (n=28-train=67)		0.92	0.43	0.59
Polychaeta (larvae) (n=20-train=452)		0.10	0.50	0.17
Calanus spp. (n=14-train=213)		0.48	0.79	0.59
Eurytemora spp. (n=10-train=88)		0.00	0.00	0.00
Aglantha spp. (medusa) (n=9-train=21)		0.54	0.78	0.64
Oncaeidae spp. (n=6-train=16)		0.00	0.00	0.00
Sarsia spp. (medusa) (n=4-train=4)		0.00	0.00	0.00
Ostracoda (n=2-train=6)		0.00	0.00	0.00
Tortanus spp. (n=2-train=4)		0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=1-train=7)		0.00	0.00	0.00
macro avg		0.45	0.39	0.37
weighted avg		0.72	0.68	0.68
		precision	recall	f1-score

0.8

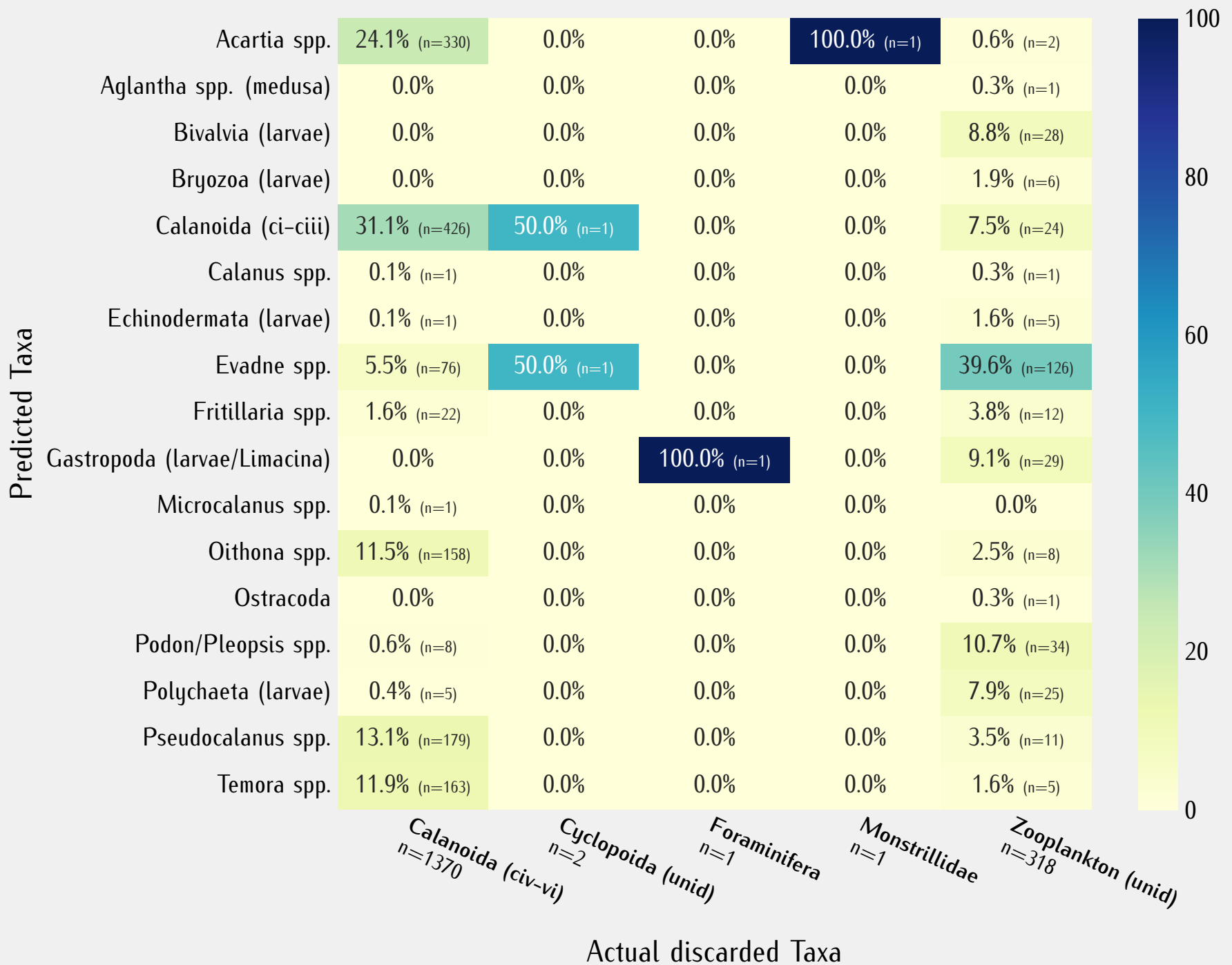
0.6

0.4

0.2

0.0

Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

