

Use of SCN features: Yes
Max learning objects: 5000 objects/class
Strategy N° 7

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

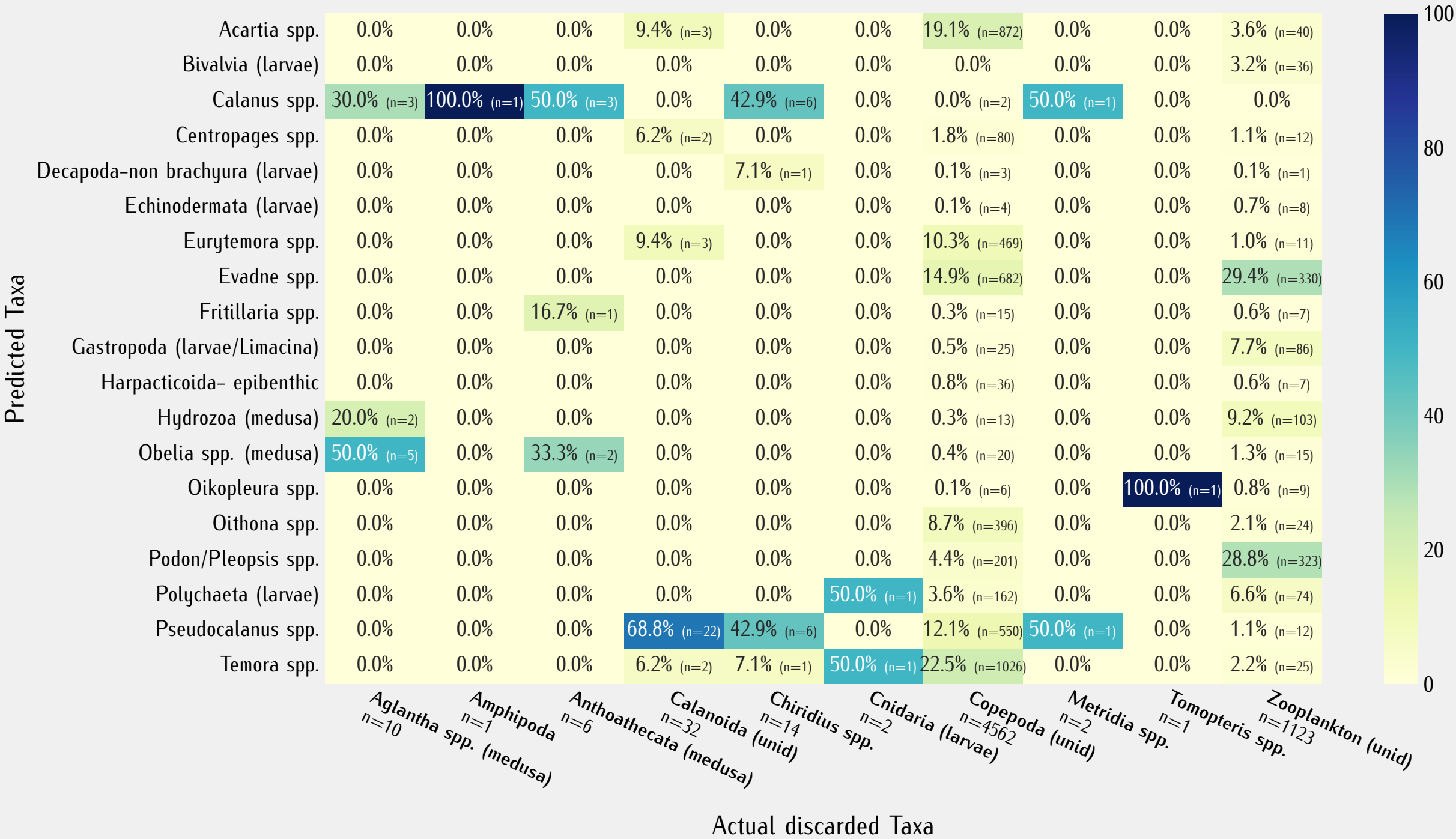
Confusion Matrix - In percent of Actual Value

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	Fritillaria spp.	Echinodermata (larvae)	Decapoda-non brachyura (larvae)	Obelia spp. (medusa)	Polychaeta (larvae)
Temora spp.	59%	10%	3%	16%	2%	<1%	6%	<1%	1%			<1%	<1%			<1%	<1%	<1%	1%	
Acartia spp.	21%	54%	2%	10%	5%	<1%	4%		2%	<1%		<1%				<1%		<1%	<1%	
Evadne spp.	1%	<1%	86%	<1%		6%	<1%	1%	<1%	<1%		3%	<1%			<1%		<1%	<1%	
Pseudocalanus spp.	27%	14%	<1%	45%	6%	<1%	6%		<1%				<1%	<1%				<1%	<1%	<1%
Centropages spp.	6%	2%		1%	89%									<1%				<1%	<1%	
Podon/Pleopsis spp.	33%	<1%	8%	3%		18%	4%					<1%	<1%					9%	2%	22%
Eurytemora spp.	6%	17%	5%	1%		<1%	66%		4%				<1%							
Gastropoda (larvae/Limacina)			2%			23%		61%		7%		5%								2%
Oithona spp.		5%	1%				1%		88%			1%				2%	1%		1%	
Bivalvia (larvae)								9%		89%		2%								
Oikopleura spp.					1%						80%			3%	6%	6%		4%		
Hydrozoa (medusa)	3%		5%		2%	2%						34%		3%		2%		3%	44%	3%
Harpacticoida- epibenthic	6%	26%		34%	2%		6%						24%							2%
Calanus spp.				4%										64%				32%		
Chaetognatha				7%											80%					
Fritillaria spp.								14%		14%						71%				
Echinodermata (larvae)						20%		40%		20%						20%				
Decapoda-non brachyura (larvae)																	100%			
Obelia spp. (medusa)																		100%		
Polychaeta (larvae)				100%																

Classification Report Matrix
max 5000 learning objects per class

	Classification Report Matrix		
	precision	recall	f1-score
Temora spp. (n=18103-train=5000)	0.73	0.59	0.65
Acartia spp. (n=13302-train=5000)	0.76	0.54	0.63
Evadne spp. (n=5228-train=5000)	0.84	0.86	0.85
Pseudocalanus spp. (n=3053-train=4845)	0.24	0.45	0.31
Centropages spp. (n=330-train=3620)	0.18	0.89	0.30
Podon/Pleopsis spp. (n=253-train=5000)	0.10	0.18	0.13
Eurytemora spp. (n=178-train=1818)	0.06	0.66	0.10
Gastropoda (larvae/Limacina) (n=112-train=3272)	0.44	0.61	0.51
Oithona spp. (n=98-train=5000)	0.14	0.88	0.25
Bivalvia (larvae) (n=92-train=3764)	0.90	0.89	0.90
Oikopleura spp. (n=70-train=5000)	0.69	0.80	0.74
Hydrozoa (medusa) (n=64-train=4052)	0.12	0.34	0.18
Harpacticoida- epibenthic (n=50-train=555)	0.10	0.24	0.14
Calanus spp. (n=25-train=359)	0.73	0.64	0.68
Chaetognatha (n=15-train=89)	0.75	0.80	0.77
Fritillaria spp. (n=7-train=5000)	0.06	0.71	0.11
Echinodermata (larvae) (n=5-train=3043)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=2-train=423)	0.04	1.00	0.09
Obelia spp. (medusa) (n=1-train=1003)	0.01	1.00	0.01
Polychaeta (larvae) (n=1-train=1577)	0.00	0.00	0.00
macro avg	0.34	0.60	0.37
weighted avg	0.70	0.60	0.63
	precision	recall	f1-score

Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

