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

Actual Values

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

Confusion Matrix – In percent of Actual Value

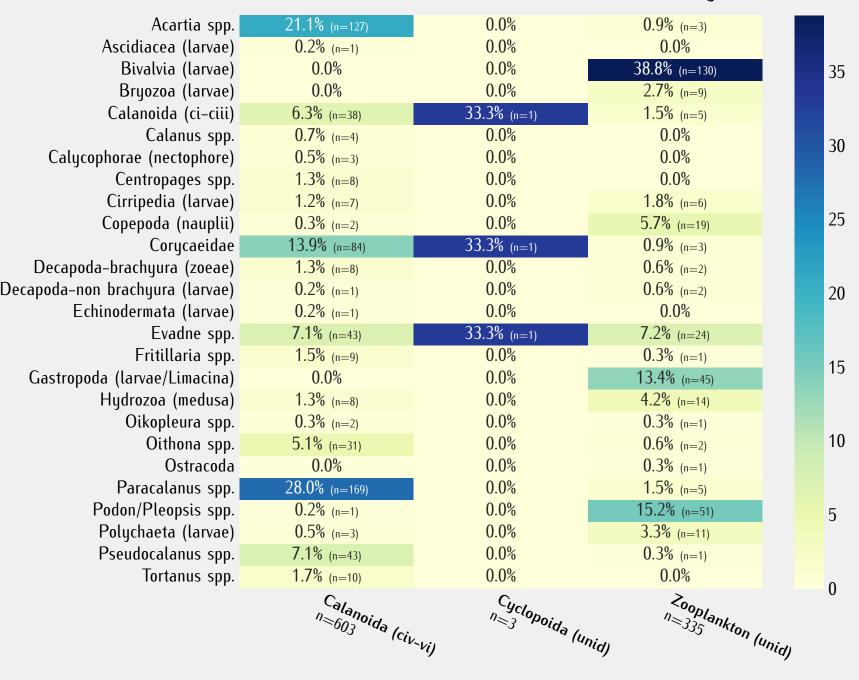
										C	umusi	ton IV	idlílX	- m	perce	IIL OI .	Actud	ii Vdl	ue								
Cirripedia (larvae)	57%	2%	<1%	8%	<1%	4%		5%	1%	3%	<1%	<1%	1%		2%	1%	4%	<1%		1%	4%		<1%	<1%	<1%	4%	<1%
Acartia spp.	<1%	43%	<1%		<1%	<1%	18%	4%	12%			<1%	<1%	2%		<1%	<1%			<1%	3%		9%	6%	<1%	<1%	
Oikopleura spp.	1%	1%	63%	1%	12%	1%	<1%	1%	<1%	<1%	<1%	<1%	<1%	<1%	3%	4%	<1%	<1%	<1%	<1%	<1%	5%	<1%	<1%	<1%	1%	<1%
Podon/Pleopsis spp.	6%	<1%	<1%	17%	<1%	12%	<1%	16%	12%	1%	<1%	4%	10%	<1%		<1%	1%	<1%	<1%				<1%	<1%		16%	<1%
Fritillaria spp.	<1%	3%	26%		55%	2%	1%	<1%	1%			<1%	<1%		6%	<1%						3%	2%			<1%	
Evadne spp.	6%	1%	<1%	6%		65%	<1%	<1%	5%	<1%	2%		7%		1%	<1%	<1%	<1%		1%						<1%	2%
Corycaeidae		7%	2%	<1%		<1%	63%	2%	7%			4%		1%		<1%	<1%				1%		1%	5%	<1%	<1%	
Calanoida (ci-ciii)	9%	5%		6%	3%	9%	7%	29%	5%			5%	<1%		8%								3%			9%	1%
Paracalanus spp.		3%				<1%	2%		56%			<1%	<1%	<1%			2%	<1%			2%			27%	4%		
Gastropoda (larvae/Limacina)	2%	2%		10%	<1%	8%		2%	2%	44%	9%	2%	2%										2%			9%	6%
Bivalvia (larvae)				1%				1%		8%	84%							1%								2%	2%
Polychaeta (larvae)	17%	6%		9%		3%	3%	3%	6%		2%	11%	6%			2%	5%	2%	5%		2%			9%	2%	6%	3%
Hydrozoa (medusa)						5%			2%			2%	82%			4%	2%		2%							2%	
Centropages spp.		10%	2%				2%		2%					16%		2%	10%		14%		22%			14%	6%		
Echinodermata (larvae)				2%	2%	55%			2%			2%	14%			5%	2%	5%								5%	5%
Calycophorae (nectophore)					3%								8%			70%	3%		8%		3%			3%	3%		
Decapoda-brachyura (zoeae)									6%				3%	6%		3%	47%		16%		16%			3%			
Ctenophora (larvae)						16%			3%		3%	3%	52%					10%								13%	
Decapoda-non brachyura (larvae)					4%	4%							4%				4%	8%	77%								
Ostracoda				4%		4%	4%			8%	32%		4%							44%							
Tortanus spp.		8%												12%		8%	8%		4%		58%						
Ascidiacea (larvae)			13%																			87%					
Oithona spp.		29%			18%		6%							12%					6%		6%		24%				
Pseudocalanus spp.														14%			14%		14%					57%			
Calanus spp.													17%				17%		17%		17%				33%		
Copepoda (nauplii)				25%				25%																		50%	
Euphysa spp. (medusa)																100%											
Bryozoa (larvae)																											
	Cirrin	Acara dia Mana	Oikop.	Podor.	Pitille Opsis	Sp.	Coryce Spp.	Calan	Parado Coixo	Castro Slanus Sp.	Bivally (la)	Polyci Vac Linac	Hydro (lar	Centro, Orde (medical)	Ching Shages Sh	Calyconata (	Decap Johorde (A. Varde)	Clenor Toda brach	Decap Sura (Art	Ostracion of the see	Portanti Tachyura (	Ascidle (Janae)	Citholiacea (larve	Pseudo Pp. Pp.	Calanis S	Copepo Spp. Spp.	Euphysa Spp. (1.
												<b>~</b> (,		1				<b>'</b> 9	) ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~	Pe)	* /·	(lande)					

Predicted Values

Classification Report Matrix

n		irning objec	cts per class	5
	precision	recall	f1-score	
Cirripedia (larvae) (n=3231-train=200)	0.94	0.57	0.71	
Acartia spp. (n=2290-train=200)	0.86	0.43	0.57	
Oikopleura spp. (n=1773-train=200)	0.88	0.63	0.73	
Podon/Pleopsis spp. (n=607-train=200)	0.24	0.17	0.20	
Fritillaria spp. (n=475-train=200)	0.49	0.55	0.52	
Evadne spp. (n=358-train=200)	0.44	0.65	0.53	
Corycaeidae (n=335-train=200)	0.32	0.63	0.43	
Calanoida (ci-ciii) (n=150-train=200)	0.11	0.29	0.16	
Paracalanus spp. (n=141-train=200)	0.14	0.56	0.23	
Gastropoda (larvae/Limacina) (n=126-train=200)	0.34	0.44	0.39	
Bivalvia (larvae) (n=96-train=119)	0.62	0.84	0.72	
Polychaeta (larvae) (n=65-train=200)	0.09	0.11	0.10	
Hydrozoa (medusa) (n=55-train=200)	0.21	0.82	0.33	
Centropages spp. (n=50-train=119)	0.11	0.16	0.13	
Echinodermata (larvae) (n=42-train=200)	0.00	0.00	0.00	
Calycophorae (nectophore) (n=37-train=200)	0.17	0.70	0.27	
Decapoda-brachyura (zoeae) (n=32-train=200)	0.08	0.47	0.14	
Ctenophora (larvae) (n=31-train=29)	0.14	0.10	0.11	
ecapoda-non brachyura (larvae) (n=26-train=200)	0.33	0.77	0.46	
Ostracoda (n=25-train=18)	0.17	0.44	0.24	
Tortanus spp. (n=24-train=88)	0.06	0.58	0.10	
Ascidiacea (larvae) (n=23-train=54)	0.17	0.87	0.29	
Oithona spp. (n=17-train=44)	0.02	0.24	0.03	
Pseudocalanus spp. (n=7-train=65)	0.02	0.57	0.03	
Calanus spp. (n=6-train=37)	0.08	0.33	0.13	
Copepoda (nauplii) (n=4-train=200)	0.01	0.50	0.01	
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00	
Bryozoa (larvae) (n=1-train=50)	0.00	0.00	0.00	
macro avg	0.25	0.44	0.27	
weighted avg	0.74	0.52	0.58	
	precision	recall	f1-score	

## Predictions of discarded taxa from training



**Predicted Taxa** 

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

