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

Actual Values

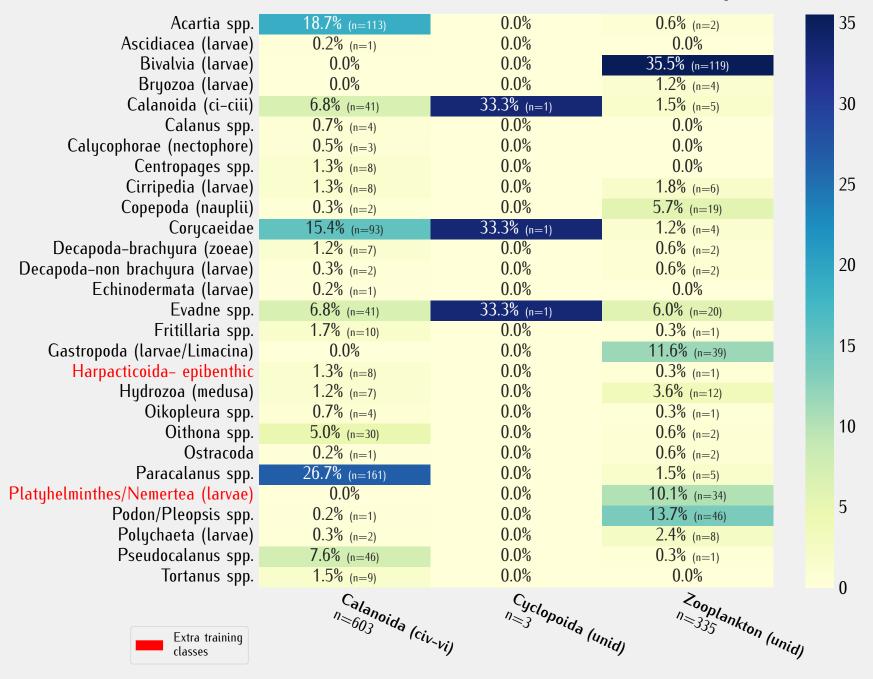
PA Selected Samples prediction using PA training set, Learning with all classes present in the selected samples, with extra training categories, No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

Classification Report Matrix

precision recall f1-score

33	Confusion Matrix – In percent of Actual Value														n		arning obje	cts per class																
	Cirripedia (larvae) 58% 2% <1% 7% <1% 3% 5% <1% 3% <1% 1% <1% 2% 1% 3% <1% 1% 4% <1% <1% <5% 5% <1% 3% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% 5% <1% <1% 5% <1% 5% <1% <1% 5% <1% 5% <1% <1% 5% <1% <1% 5% <1% <1% <1% 5% <1% <1% <1% <1% 5% <1% <1% <1% <1% <1% <1% <1% <1% <1% <1																			Cirrinadia (lanvae)	precision		f1-score											
											3% <1%							<1%										<1%		<1%	Cirripedia (larvae) (n=3231-train=200)	0.91	0.58	0.72
Acartia spp								8% 4%				<1%		2%			<1%			<1%					<1%				1%		Acartia spp (n=2290-train=200)	0.86	0.42	0.56
Oikopleura spp											(1% < 1%										<1%							<1%			Oikopleura spp (n=1773-train=200)	0.88	0.63	0.73
Podon/Pleopsis spp											(1% < 1%	3%					2%	<1%	•	<1%			<1%	<1%		17%				<1%	Podon/Pleopsis spp (n=607-train=200)	0.25	0.16	0.19
Fritillaria spp								(1% <15			40 40		<1%		6%		10	10		10		3%	2%			4.0				<1%	Fritillaria spp (n=475-train=200	0.50	0.55	0.52
Evadne spp						66					(1% <1%		6%	40.			<1%			1%	40.		.40.	<b>C</b> 0.		<1%				3%	Evadne spp (n=358-train=200)	0.40	0.66	0.54
Colonaida (ai. aiii)								5% 3%				4%		1%		<1%		<	<1%		1%	,	<1%	0%		<1% 9%				<1%	Corycaeidae	0.22	0.65	0.44
Calanoida (ci-ciii)			<1%		3%					6%		5%	10,	<1%	9%		1%	~10 <sub>c</sub>			3%		2%	270,	3%	9%		1%	3%	1%	(n=335-train=200) Calanoida (ci-ciii)	0.10	0.26	0.14
Paracalanus spp				9%	<1%		1% 2		2		4% 9%			< 1%			170	< 1%			3%		2%	21%	3%	10%		6%		<1%	(n=150-train=200)  Paracalanus spp			
Gastropoda (larvae/Limacina) Bivalvia (larvae)		∠′0		1%		0 /	70	1%			1% 75%		Ζ′0										2/0			2%		1%		160	(n=141-train=200)  Gastropoda (larvae/Limacina)	0.14	0.56	0.23
Polychaeta (larvae)		5%		8%		70	0 <sub>/</sub> 2	3% 8%				12%	6%			20/	6%	7%	5%		2%			6%	2%			3%		2%	(n=126-train=200)	0.30	0.44	0.39
Hydrozoa (medusa)		J/0	2%	0/0			%	)/0 U/0		l%	Ζ/0		82%			4%		∠′0	J/0		∠′0			U/0	۷′0	2%		J/0		2/0	Bivalvia (larvae) (n=96-train=119)	0.00	0.75	0.71
Centropages spp		10%	2%			1		2%		2%		270	0270	18%		2%			14%		24%			16%	4%	270					Polychaeta (larvae) (n=65-train=200)	0.13	0.12	0.13
Echinodermata (larvae)		10.0	2.0	2%	2%	52		-70		7%		2%	14%					5%	1 170		2170			10,0	170	5%		2%			Hydrozoa (medusa) (n=55-train=200)	0.21	0.82	0.34
Calycophorae (nectophore)				2 0	3%		_ 0		,	0		2 0	8%			68%	3%		11%		3%			3%	3%	3 0		2 0			Centropages spp (n=50-train=119)	0.12	0.18	0.15
Decapoda-brachyura (zoeae)									3	3%				3%		3%	53%		16%		16%			3%							Echinodermata (larvae) (n=42-train=200	0.00	0.00	0.00
Ctenophora (larvae)				3%		13	3%					3%	52%					13%								10%				3%	Calycophorae (nectophore)	0.16	0.68	0.26
Decapoda-non brachyura (larvae)					4%								8%				4%	4%	77%											4%	(n=37-train=200)  Decapoda-brachyura (zoeae)	0.10	0.53	0.16
Ostracoda	1					49	%				16%	4%								48%										28%	(n=32-train=200)  Ctenophora (larvae)	0.22	0.13	0.16
Tortanus spp		4%												12%		8%	8%		4%		58%		4%								(n=31-train=29)  Decapoda-non brachyura (larvae)		0.77	
Ascidiacea (larvae)			13%																		8	87%									(n=26-train=200)  Ostracoda	0.55	_	0.46
Oithona spp		29%	6%		18%									12%					6%			П	29%								(n=25-train=18)	0.10	0.48	0.26
Pseudocalanus spp																	14%		14%					57%	14%						Tortanus spp (n=24-train=88)	0.00	0.58	0.10
Calanus spp													17%					,	17%		17%				50%						Ascidiacea (larvae) (n=23-train=54)	0.17	0.87	0.29
Copepoda (nauplii)				25%	ó			25%	ó																	50%					Oithona spp (n=17-train=44)	0.02	0.29	0.04
Euphysa spp. (medusa)															1	00%															Pseudocalanus spp (n=7-train=65)	0.02	0.57	0.03
Bryozoa (larvae)	100%																														Calanus spp	0.14	0.50	0.21
	Cirri	Aca,	Oik.	Por	Ton Tritte	( ) ( )	Son Son	Coryce Cal	de la	O Proces	Castro Biva	W. Polye	1/4/	Centr	China	Calyce	Decap	Crenon	Decap	OSTA	Tortan	Ascidi.	Oithon	PSello	Calan	Copen	Cuphy	Bryon	Harpe	Platy	Copepoda (nauplii) (n=4-train=200)	0.01	0.50	0.01
	Cirri	Cdia (le	Tio Pp.	Cura	Hon/Pleop	Si.	Solno Sp.	Orycapidae	olda	odracolar Cicily	Castropoda /	Polye (larva eli	ARA (	Centrolog (nel	Chinology Sp.	ermata	Ohorae (	Ctenoph da brachy	horalla.	da non	od its	200 S	Oithon Coa (lan		ocalanus	Copepoli Spp.	Ta (nau	Bryozo	d (lar	Clicoida	Euphysa spp. (medusa)	0.00	0.00	0.00
			de		~:	5/2	ģ			City	Castropoda Nus Spp.	"Nac/lin	ツ `	'Vary	Chinology Sp.	,	Decapo	ectophe	4412 (2	de	Portanus brachyura		1	(de)	,	500	Z	Bryozo Spp. (olii)	Medusa	8) N	Copepoda (nauplii) (n=4-train=200)  Euphysa spp. (medusa) (n=3-train=3)  Bryozoa (larvae) (n=1-train=50)  Harpacticoida- epibenthic (n=0-train=47)	0.00	0.00	0.00
													d cinal					Ore	of of	de	4	(lange	) /								(n=1-train=50)  Harpacticoida- epibenthic	0.00	0.00	0.00
																						· 8								tr	aining Platubolminthos/Nomertes (Januar)	_	-	-
														Pre	dicted	Valı	ies													cl	(n=0-train=145)	_	-	-
																															macro avg (corr)	0.26	0.45	0.28
																															weighted avg	0.74	0.52	0.59

## Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

