Use of SCN features: Yes

Max learning objects: 200 objects/class Strategy N° 4

Actual Values

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

Confusion Matrix – In percent of Actual Value

Classification Report Matrix max 200 learning objects per class

precision recall f1-score

									(	_ontus	ton IV	iatrix	– IN	percer	11 01 /	Actual	ı vall	ıe										precision	,	f1-score	
Cirripedia (larvae)	55%	2%	<1%	8%	<1%	4%		3%	3%	3%	<1%	<1%	2%		3%	<1%	6%		2%		<1%	<1%	4%	<1%	<1%	<1%	Cirripedia (larvae) (n=3231-train=200)	·	0.55	0.70	
Acartia spp.	<1%	41%	<1%		1%	<19	% 20%	3%	15%			<1%		2%		<1%	<1%		2%		7%	5%	<1%		<1%		Acartia spp. (n=2290-train=200)	0.86	0.41	0.56	
Oikopleura spp.	<1%	1%	65%	<1%	8%	1%	<1%	1%	1%		<1%	<1%	<1%	2%	3%	4%		<1%	<1%	5%	<1%	<1%	<1%	<1%	<1%	2%	Oikopleura spp. (n=1773-train=200)	0.87	0.65	0.74	
Podon/Pleopsis spp.	4%	<1%	<1%	17%	<1%	14%	6   <1%	13%	15%	1%	<1%	3%	9%	<1%		<1%	2%				<1%	<1%	16%	<1%		<1%	Podon/Pleopsis spp. (n=607-train=200)		0.17	0.20	
Fritillaria spp.	<1%	2%	29%		50%	2%	1%	<1%	1%				<1%		8%	<1%				4%	2%				<1%	<1%	Fritillaria spp. (n=475-train=200)	0.54	0.50	0.52	
Evadne spp.	6%	<1%	<1%	5%		65%	<1%	1%	6%	<1%	1%	<1%	7%		1%	<1%							<1%	1%		3%	Evadne spp.	0.45	0.65	0.53	
Corycaeidae	<1%	5%	2%	<1%		<19	% 66%	3%	8%			2%		<1%		<1%	<1%	<1%	1%		<1%	5%	<1%		1%	<1%	(n=358-train=200)  Corycaeidae	0.31	0.66	0.42	
Calanoida (ci-ciii)	10%	5%		5%	3%	6%	7%	28%	5%			6%	<1%		9%						2%		9%	1%	1%	<1%	(n=335-train=200)  Calanoida (ci-ciii)				
Paracalanus spp.		2%				<19	% 2%		57%	ш		<1%	1%	2%					3%			31%					(n=150-train=200)	0.12	0.28	0.17	
Gastropoda (larvae/Limacina)	2%	2%		9%	2%	6%		4%	4%	48%	9%	<1%	2%								<1%		9%	2%		2%	Paracalanus spp. (n=141-train=200)	0.11	0.57	0.18	
Bivalvia (larvae)				2%				1%		6%	77%												1%			12%	Gastropoda (larvae/Limacina) (n=126-train=200)	0.33	0.48	0.39	
Polychaeta (larvae)	14%	6%		8%		3%	3%	3%	6%	2%		14%	6%		2%		5%	5%	3%			12%	6%	3%			Bivalvia (larvae) (n=96-train=119)	0.71	0.77	0.74	
Hydrozoa (medusa)						4%			4%				84%	2%		4%	2%						2%				Polychaeta (larvae) (n=65-train=200)	0.14	0.14	0.14	
Centropages spp.		8%	2%				2%		2%					24%		2%	4%	16%	22%			16%			2%		Hydrozoa (medusa) (n=55-train=200)	0.21	0.84	0.34	
Echinodermata (larvae)				5%	2%	57%	ó		2%			2%	21%			5%							5%				Centropages spp. (n=50-train=119)	0.12	0.24	0.16	
Calycophorae (nectophore)					3%								8%	3%		70%	3%	8%	3%			3%					Echinodermata (larvae) (n=42-train=200)	0.00	0.00	0.00	
Decapoda-brachyura (zoeae)							3%		3%				3%			3%	69%	9%	6%			3%					Calycophorae (nectophore) (n=37-train=200)	0.16	0.70	0.26	
Decapoda-non brachyura (larvae)							4%						15%				4%	73%								4%	Decapoda-brachyura (zoeae) (n=32-train=200)	0.09	0.69	0.16	
Tortanus spp.		4%							4%					8%		17%	4%	12%	50%	·							Decapoda-non brachyura (larvae)	0.40	0.73	0.52	
Ascidiacea (larvae)			13%																	87%							(n=26-train=200)  Tortanus spp.	0.10			
Oithona spp.		35%	6%		12%									12%				6%			24%				6%		(n=24-train=88)  Ascidiacea (larvae)	0.07	0.50	0.12	
Pseudocalanus spp.														14%			14%	14%				57%					(n=23-train=54)	0.16	0.87	0.26	
Copepoda (nauplii)				25%				25%															50%				Oithona spp. (n=17-train=44)	0.02	0.24	0.04	
Bryozoa (larvae)		4.	<i>O</i> .	B		<b>₹</b>			<i>▶</i>		<i>&amp;</i> :	<i>∧</i>	4		<b>^</b>		0	0	<u> </u>	4.	<i>Q</i> .	Ø	C	<u> </u>	4	Ø,	Pseudocalanus spp. (n=7-train=65)	0.02	0.57	0.03	
	Cirripa	Co)	Tio Oikop	Neura .	Pritile Pleases	ilaria sa	Odne Spp.	Calal Calal	Moida (ci-	Calanus Sp.	opodo Nall	Polycia (lange)	Sacta .	Centrol Noa (media	Chine Chine	Calycop	Oboro	Decape Poda brache	Oda p		Oithold Cond	Pselidi Spp.	OCALA DOS	Bryozo Pp.	ala.	Cticoica	Copepoda (nauplii) (n=4-train=200)  Bryozoa (larvae) (n=1-train=50)  Harpacticoida- epibenthic	0.01	0.50	0.01	
		(19)	de	500	? Dris			(4	10%	City Sp	i (lar	de/li	, lan	ac) nedy		974/1	Arac In	actopy	Jura 1	ordehu.	Para	74. Poj	This	SPD. MALLOL	ii)	Y S	Bryozoa (larvae) (n=1-train=50)	0.00	0.00	0.00	
											Prodo (lar	Mach	Pa)				9	nore)	, topi	Ascidle Spp. Spachyura (	lano.						Copepoda (nauplii) (n=4-train=200)  Bryozoa (larvae) (n=1-train=50)  Harpacticoida- epibenthic (n=0-train=47)	-	_	-	
																					<i>'\)</i>					trá	aining (a. 0. train 145)	-	_	-	
												Pr	edicte	d Valu	es											Cla	macro avg (corr)	0.29	0.49	0.30	
																											weighted avg		0.51	0.58	
																											weighted dvg	<b>5.7</b> 5	0.51	0.50	

## Predictions of discarded taxa from training





