Use of SCN features: Yes

Actual Values

Max learning objects: 20000 objects/class Strategy N° 8

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

Confusion Matrix – In percent of Actual Value

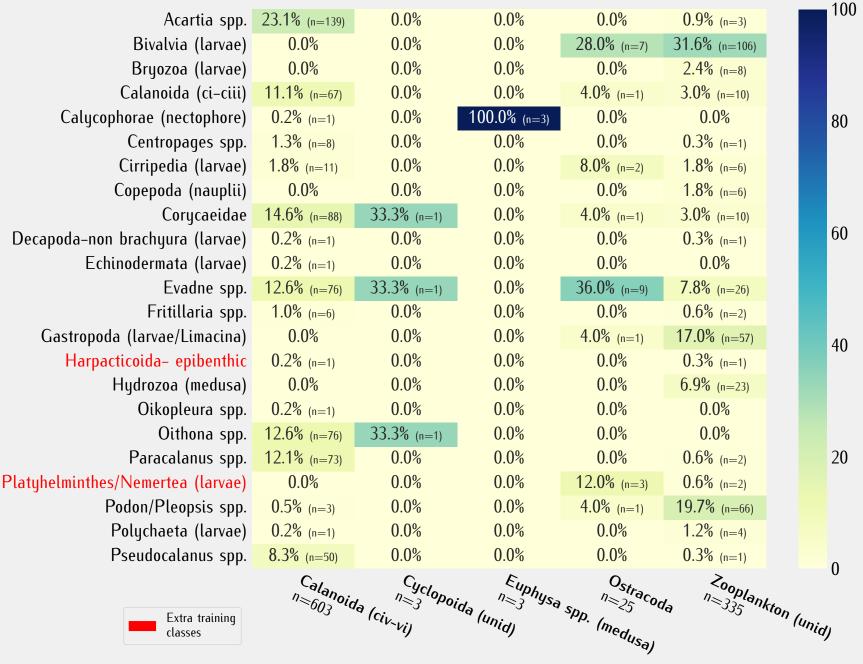
	Classif	ication F	Repo	rt M	atrix	Κ
max	20000	learning	obj	ects	per	class

precision recall f1-score

	Confusion Matrix – In percent of Actual Value																		max 20	J000 lea	arning obj	ects per o	class															
																																		ecision	recall	f1-score		
Cirripedia (larvae)	71%	1%	<1%	12%	<1%	9%		<1%	<1%	1%		<1%	<1%	<1%	<1%	<1%	<1%		<1%			<1%			<1%	<1%		<1%				Cirripedia (larv n=3231-train=76		0.94	0.71	0.81		
Acartia spp.	. <1%	57%	<1%	<1%	<1%	1%	11%	3%	6%				<1%	<1%		<1%	<1%			<1%		16%	2%								(n:	Acartia s 2290-train=200	<b>5pp.</b> 000)	0.87	0.57	0.69		
Oikopleura spp.	<1%	2%	66%	2%	19%	3%	<1%	1%	<1%	<1%		<1%	<1%	<1%	<1%	2%			<1%	<1%	<1%	1%	<1%		<1%	<1%		<1%			(1	<b>Oikopleura s</b> n=1773-train=53	<b>5pp.</b> 305)	0.91	0.66	0.76		
Podon/Pleopsis spp.	. 9%	<1%	<1%	44%	<1%	31%	1%	2%	4%	1%		<1%	<1%	<1%		<1%	<1%					<1%	<1%		<1%	<1%	<1%	<1%			Po	don/Pleopsis s (n=607-train=73	<b>spp.</b> 347)	0.35	0.44	0.39		
Fritillaria spp.	. <1%	2%	20%		63%	1%	<1%	<1%	<1%	ó		<1%	2%		2%						<1%	7%			<1%	<1%	<1%					Fritillaria s (n=475-train=69	spp.	0.44	0.63	0.52		
Evadne spp.			<1%							3%	<1%	<1%	6%			<1%						<1%			<1%							Evadne s	spp.	0.29	0.74	0.42	_	1.0
Corycaeidae														2%		<1%			<1%			2%	3%			<1%	<1%				`	n=358-train=11( <b>Corycaei</b> ( n=335-train=17	J0 <del>4</del> )	0.41	0.61	0.49		
Calanoida (ci-ciii)												1%			4%							14%			2%		1%					(n=335-train=17 Calanoida (ci-c	o:::\					
Paracalanus spp.	. <1%	11%			<1%				51%					<1%									29%									(n=150-train=55	557)	0.14	0.15	0.15		
Gastropoda (larvae/Limacina)		2%		17%		13%	<1%					<1%										3%			2%							(n=141-train=16	619)	0.27	0.51	0.35		0.0
Bivalvia (larvae)				5%			1%			4%	82%		4%												2%			1%		G	astropoda	(larvae/Limaci (n=126-train=32	ina) 272)	0.46	0.52	0.49		0.8
Polychaeta (larvae)	18%			12%		15%	2%	2%	2%	3%		26%				3%			5%				6%		2%							Bivalvia (larv (n=96-train=37	764)	0.91	0.82	0.86		
Hydrozoa (medusa)		2%				7%		2%				9%	71%			5%			2%				2%								P	olychaeta (larv (n=65-train=15	/ <b>ae)</b> 577)	0.33	0.26	0.29		
Centropages spp.		22%	2%		4%									40%					2%	6%			18%	6%							F	<b>lydrozoa (med</b> u (n=55-train=40	ı <b>sa)</b> 052)	0.25	0.71	0.37		
Echinodermata (larvae)					2%	5%							86%			5%																Centropages s (n=50-train=36	spp.	0.27	0.40	0.32		0.6
Calycophorae (nectophore)								3%				3%	3%	5%		76%			8%				3%								Echii	nodermata (larv	ae)	0.00	0.00	0.00	1	
Decapoda-brachyura (zoeae)		6%				3%		3%						9%		6%	62%		6%				3%								Calycopl	n=42-train=30 norae (nectopho	ore)	0.28	0.76	0.41		
Ctenophora (larvae)				6%		19%				10%			32%			3%		3%	3%							3%				C		(n=37-train=9 brachyura (zoe	966)					
Decapoda-non brachyura (larvae)						4%	4%					4%		4%		_	8%		65%	_		_		8%						_		(n=32-train=6 tenophora (larv	528)	0.39	0.62	0.48		0.4
Tortanus spp.		4%												38%		17%	4%		4%	21%		4%										(n=31-train=	=42)	1.00	0.03	0.06		
Ascidiacea (larvae)			22%		17%																61%									Decap	ooda-non	brachyura (larv n=26-train=4	123)	0.49	0.65	0.56		
Oithona spp.		41%	6%		18%									6%								29%										Tortanus s (n=24-train=2	<b>5pp.</b> 203)	0.50	0.21	0.29		
Pseudocalanus spp.														4.70					220				100%	470							A	Ascidiacea (larv (n=23-train=8	/ <b>ae)</b> 361)	0.78	0.61	0.68		0.2
Calanus spp.				250										17%					33%				33%	17%								Oithona s (n=17-train=58	<b>spp.</b> 381)	0.01	0.29	0.02		
Copepoda (nauplii)				25%																					75%						Р	seudocalanus s (n=7-train=48	<b>5pp.</b> 845)	0.05	1.00	0.10		
Bryozoa (larvae)			<i>O</i> :.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>☆</b> .	€;	C	C	A)	C.	<i>S</i> .	A.	4.	G	<b>₹</b>	C	0.	C <sub>x</sub>	<i>O</i> .	\ \hat{\alpha}	40	Q.	<i>₽</i>	C	G	8.	4	D,				Calanus s (n=6-train=3	·	0.17	0.17	0.17		
		Dedia (	Oito Oito	Pleura	on Please	laria Spp.	The Coryl	Calar Calar	noida (	Calanus St.	Topodo Val	Nia (lanal)	hacta	Centi Dea (nec	Chin	Oderm	Decapo Ophorae (1) (larvae)	oda k	Mora Call	Portalli Toda non	or Scient	Oithon	na Sp.	docalanus,	Copep Spp.	Oda (Sola)	Od (larvae	Ctico;	Pelninthes Nemerted		(	Copepoda (naur	olii)	0.06	0.75	0.12		0.0
		10	rae	Ž	50 DE	i	, , , , , , , , , , , , , , , , , , ,	~~	(C)	City St.	DD 1/6	mae/i.		Trace med	(154) 52	Do Para	(lary)	Dector Of the Control	1447 (la)	vae)	brach.	(An)	(de)	nus	500	(nally	olii) nae		Pibe Nep			(n=4-train=115 Bryozoa (larv (n=1-train=11	000)	0.00	0.00	0.00		0.0
						·						Inc	Cina)				4e)	Phore	ey For	ale)	Yura	(lan							enthic mortes (la		Harpaci	(n=1-train=11 icoida- epibent		0.00	0.00	0.00		
	Ciripedia Via Podon Pitillaria da Para Casta Stialia Pody Control California California California California Candida Calonis Super Casta Statia Casta Color Candida Candis Casta Color Candida Candis Candida Candis Candida Candis Candida Candis Candida Candis Candida Candis C															extra (larva)			(n=0-train=5)	555)	-	_	_															
													Pr	edicte	d Val	ues													lasses	rtatyne	-unununes/	Nemertea (larv (n=0-train=1	183)	-	-	-		
																															ma	acro avg (co	orr)	0.41	0.49	0.38		
																																weighted a	ıvg	0.77	0.62	0.67		

## Predictions of discarded taxa from training

**Predicted Taxa** 



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

