Use of SCN features: Yes

Actual Values

Max learning objects: 20000 objects/class Strategy N° 3

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

Classification Report Matrix max 20000 learning objects per class

precision recall f1-score

		Confusion Matrix – In percent of Actual Value											max 20000 learning objects per class																
																										precision	recall	f1-score	
Cirripedia (larvae)		1%	·	15%		2%				<1%	<1%	<1%	<1%			<1%			<1%				<1%	<1%	Cirripedia (larvae) (n=3231-train=6358)	0.92	0.77	0.84	
Acartia spp.		80%						<1%			-40.	-40	-40.		<1%			-40.	<1%	.40.	<1%		-40.		Acartia spp (n=2290-train=4410	0.88	0.80	0.84	
Oikopleura spp.		2%	82%	3%	2%	2%			1%	-10	<1%			<1%	2%	3%	<1%	<1%	<1%	<1%		<1%	<1%		<b>Oikopleura spp</b> (n=1773-train=4507	0.82	0.82	0.82	
Podon/Pleopsis spp.		2%		55% <1%		10%	<1%		<1%	< 1%	<1%		3%		10,	<1%	1%						<1%		Podon/Pleopsis spp (n=607-train=3605	0.32	0.55	0.41	
Fritillaria spp. Evadne spp.		6% 1%			34%	67%	< 1%		5%		<1%	<1% <1%	5%			<1%							<1%		Fritillaria spp (n=475-train=844	0.92	0.34	0.48	
Corycaeidae		14%				<1%	71%	<1%				<1%		<1%			<1%		<1%			<1%			Evadne spp	0.55	0.67	0.60	
Calanoida (ci-ciii)		16%				5%	11%		8%			4%			9%								3%		(n=358-train=981) Corycaeidae		0.71	0.64	
Paracalanus spp.		6%	<1%	1%		1%	<1%		84%				<1%	<1%		<1%	<1%					2%			(n=335-train=1760) Calanoida (ci-ciii	0.50			
Gastropoda (larvae/Limacina)		5%		52%		3%		<1%	3%	18%	6%	2%	<1%		<1%								2%		(n=150-train=313)	0.54	0.11	0.17	
Bivalvia (larvae)				15%		1%	1%			2%	79%												2%		Paracalanus spp (n=141-train=1525	0.24	0.84	0.38	
Polychaeta (larvae)	25%	6%		17%		3%	5%		6%			26%	3%		2%	2%	3%	3%							Gastropoda (larvae/Limacina (n=126-train=291	0.77	0.18	0.29	
Hydrozoa (medusa)			2%	2%		5%			2%				82%			5%	2%								Bivalvia (larvae (n=96-train=119	0.82	0.79	0.80	
Centropages spp.		30%	4%				2%					4%		20%		2%	6%	14%	18%						Polychaeta (larvae (n=65-train=661	0.28	0.26	0.27	
Echinodermata (larvae)	2%			17%	2%	50%			2%				14%			10%							2%		Hydrozoa (medusa	0.20	0.82	0.53	
Calycophorae (nectophore)													8%			78%	8%	5%							(n=55-train=301) Centropages spp				
Decapoda-brachyura (zoeae)		3%							3%				3%	3%		3%	81%	3%							(n=50-train=119	0.27	0.20	0.23	
poda–non brachyura (larvae)		4%				4%							12%				8%	73%							Echinodermata (larvae) (n=42-train=2649)	0.00	0.00	0.00	
Tortanus spp.	4%	4%												4%		29%	12%	12%	33%						Calycophorae (nectophore (n=37-train=966	0.19	0.78	0.31	
Ascidiacea (larvae)			65%																	35%					Decapoda-brachyura (zoeae (n=32-train=343	0.25	0.81	0.39	
Oithona spp.		53%	12%		12%		6%							12%				6%							Decapoda-non brachyura (larvae (n=26-train=219	0.50	0.73	0.59	
Pseudocalanus spp.									29%							14%		14%				43%			Tortanus spp (n=24-train=88		0.33	0.29	
Copepoda (nauplii)	25%			50%					25%																Ascidiacea (larvae	0.90	0.35	0.50	
Bryozoa (larvae)																									(n=23-train=54) Oithona spp				
	Ciripo	Acartle	Oikople Spp.	Podori, Spp.	Pleopsis St.	ing Sp.	Coryce Spp.	Peidae Caland	Paraca Oida (ci.ciii)	Castro Nanus Spp.	Bivalvie	Polyche	Hydros Reta lange	Centrol	Chino Chino	Germata (la)	De Cape	Decapo Oda brachyli, Tophore)	Tortanu	Ascidio	Oithona (lange)	Selido	Copepool	Bryozoa (le	Oithona spp (n=17-train=44		0.00	0.00	
		" (lande)	<i>Pp.</i> 1	19/10	(80 <sub>DS/5</sub> 5%	<i>Spp.</i>	<b>%</b>	VAR.	'a (ci.	, SPD.	da (larva	(larvae)	" A MARNAR	(medusa	Des Spp.	Mata (la)	Orde (nec	a brachyll	A non bran	<i>Sp.</i>	a (larvae)	<i>*2</i> 22.	Adnus Spp	(nauplii)	Pseudocalanus spp (n=7-train=65	0.21	0.43	0.29	
					•	٠,٠					Bivalvic Range	(inacina)					de	Phore	Portanily Oda Portanily Socae)	Myura Clar				•	<b>Copepoda (nauplii</b> (n=4-train=233	0.00	0.00	0.00	
																				· L	des				Bryozoa (larvae (n=1-train=50	0.00	0.00	0.00	
											Р	redicte	d Value	es											macro avo	0.43	0.47	0.40	
																									weighted avo	0.78	0.72	0.73	

	Acartia spp.	46 3% (* 270)	0.0%	0.0%	33.3% (n=1)	0.0%	0.0%	1.2% (n=4)		100
	Bivalvia (larvae)	0.0%	0.0%	0.0%	0.0%	0.0%				
	Bryozoa (larvae)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6% (n=2)		
	Calanoida (ci-ciii)		16.7% (n=1)	0.0%	0.0%	0.0%	0.0%	0.0%		
	Calycophorae (nectophore)	` ,	33.3% (n=2)	3.2% (n=1)		100.0% (n=3)		0.0%		80
	Centropages spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Cirripedia (larvae)	` ′	0.0%	3.2% (n=1)	0.0%	0.0%	0.0%	3.3% (n=11)		
	Copepoda (nauplii)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8% (n=6)		
•	Corycaeidae	9.6% (n=58)	0.0%	0.0%	33.3% (n=1)	0.0%	4.0% (n=1)	2.4% (n=8)		60
Таха	Decapoda-brachyura (zoeae)	1.2% (n=7)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=1)		60
	Decapoda-non brachyura (larvae)	0.2% (n=1)	50.0% (n=3)	0.0%	0.0%	0.0%	0.0%	0.3% (n=1)		
Predicted	Echinodermata (larvae)	0.3% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=1)		
	Evadne spp.	7.3% (n=44)	0.0%	22.6% (n=7)	33.3% (n=1)	0.0%	48.0% (n=12)	5.7% (n=19)		
	Fritillaria spp.	0.5% (n=3)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=1)		40
	Gastropoda (larvae/Limacina)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.7% (n=9)		
	Hydrozoa (medusa)	$0.2\%~{\tiny (n=1)}$	0.0%	51.6% (n=16)	0.0%	0.0%	0.0%	1.2% (n=4)		
	Oikopleura spp.	1.5% (n=9)	0.0%	0.0%	0.0%	0.0%	0.0%	$0.3\%~\scriptscriptstyle{(n=1)}$		
	Paracalanus spp.	24.7% (n=149)	0.0%	0.0%	0.0%	0.0%	0.0%	2.4% (n=8)		20
	Podon/Pleopsis spp.	1.0% (n=6)	0.0%	19.4% (n=6)	0.0%	0.0%	28.0% (n=7)	40.9% (n=137)		
	Polychaeta (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	3.6% (n=12)		
	Pseudocalanus spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Tortanus spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0
		$C_{alano}$	Calanu	$C_{tenon}$	$C_{y_{clop}}$	Euphus	Ostrac	$\gtrsim_{o_{p_{lan}}}$		Ü
		603	Calanıı ida (ci <sub>V-Vi)</sub>	$s sp_{p.}^{n \geq 31}$	Cyclope hora (larvae)	Euphys Pida (unid)	of spp. 15	Zooplank Oda <sup>n</sup> ∈335	ton (un:	
			<i>(1)</i>		vae)	(4)	$O_{Strac}$ $Sp_{p.}$ $O_{Strac}$ $O_{Strac}$	(50)	•116	7)

Relative Abundance of Top Taxonomic Instances per Sample



