Use of SCN features: No

Actual Values

Max learning objects: Maximum 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 available learning objects per class	<b>S</b>

precision recall f1-score

									Con	fusion	Matrix	c – In j	percen	t of Ac	tual V	alue									max	available	learning of	ojects per cla	ass
																										precision	recall	f1-score	
Cirripedia (larvae)		1%	<1%	12%	<1%	2%	<1%		<1%	<1%	<1%	<1%	<1%	<1%	1%		1%	<1%	40		40	40	<1%	<1%	Cirripedia (larvae) (n=3231-train=6358)		0.78	0.85	
Acartia spp.			<1%				6%							<1%		<1%			<1%		<1%	<1%			<b>Acartia spp.</b> (n=2290-train=4410)	0.89	0.79	0.84	
Oikopleura spp.  Podon/Pleopsis spp.		2%	82% <1%	2% 56%	2%	2% 9%	<1% 2%	<1% 3%	1%		<1%	<1% 2%	<1% 2%	<1%	2%	3% <1%	<1%	<1%	<1%	<1%		<1%	<1%	<1%	Oikopleura spp. (n=1773-train=4507)	0.83	0.82	0.82	
				30/0	400.			3/0							20.	170	170			.40.		170	Δ/0		Podon/Pleopsis spp. (n=607-train=3605)	0.37	0.56	0.45	
Fritillaria spp. Evadne spp.		6% 1%	46% <1%	10%	40%	69%	<1%		<1% 4%		<1%		<1% 4%		3% <1%	<1%				<1%			<1%		Fritillaria spp. (n=475-train=844)	0.00	0.40	0.53	
Corycaeidae			3%			<1%		<1%	5%			<1%		1%		<1%	<1%	<1%	<1%			<1%			Evadne spp.	0.55	0.69	0.62	
Calanoida (ci-ciii)		16%				4%	11%	14%				4%		. 0	9%	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		<b>\</b> 10	<b></b>				4%	<1%	(n=358-train=981)  Corycaeidae	0.56	0.71	0.63	0.0
Paracalanus spp.	<1%	9%	<1%	2%		2%	<1%		81%							<1%	<1%					3%			(n=335-train=1760)		0.71	0.03	0.8
		4%		36%		5%		<1%	3%	32%	7%	2%	<1%		<1%								2%		Calanoida (ci-ciii) (n=150-train=313)		0.14	0.18	
Bivalvia (larvae)				15%			1%			4%	78%												1%	1%	Paracalanus spp. (n=141-train=1525)	0.25	0.81	0.38	
Polychaeta (larvae)	25%	5%		17%		5%	3%	2%	3%			29%	2%			2%	2%	6%					2%		Gastropoda (larvae/Limacina) (n=126-train=291)	0.67	0.32	0.43	
Hydrozoa (medusa)			2%	2%		4%			5%			4%	78%			4%	2%								Bivalvia (larvae) (n=96-train=119)	0.77	0.78	0.78	0.6
Centropages spp.		22%	4%				2%					2%		20%			20%	18%	10%			2%			Polychaeta (larvae) (n=65-train=661)	0.27	0.29	0.28	
Echinodermata (larvae)	5%			14%	2%	50%			2%				17%			7%							2%		<b>Hydrozoa (medusa)</b> (n=55-train=301)	0.39	0.78	0.52	
Calycophorae (nectophore)								3%				3%	8%			78%	5%	3%							Centropages spp.	0.22	0.20	0.21	
Decapoda-brachyura (zoeae)	3%	3%							6%				3%			6%	62%	12%				3%			(n=50-train=119)  Echinodermata (larvae)				0.4
Decapoda-non brachyura (larvae)		4%		4%		4%							12%				4%	73%							(n=42-train=2649)	0.00	0.00	0.00	
Tortanus spp.	8%	4%												12%		21%	21%		33%						Calycophorae (nectophore) (n=37-train=966)	0.21	0.78	0.33	
Ascidiacea (larvae)			48%																	52%					Decapoda-brachyura (zoeae) (n=32-train=343)	0.19	0.62	0.29	
Oithona spp.		47%	12%		12%		6%							12%				6%			6%				Decapoda-non brachyura (larvae) (n=26-train=219)	0.43	0.73	0.54	
Pseudocalanus spp.									14%					14%			14%	14%				43%			Tortanus spp. (n=24-train=88)	0.33	0.33	0.33	0.2
Copepoda (nauplii)				25%				25%															50%		Ascidiacea (larvae) (n=23-train=54)	0.71	0.52	0.60	
Bryozoa (larvae)													,												O'al		0.00	0.00	
	Cirriped	Acarria	Oikopi	Podon, spp.	Po, Stitille	i Sp.	To Corycal	Pein Calana	Nig Parac	da Castro	Bivalut	Polych	Mydro	Centrol	Chinol	of College	Oecapo	Decape	Portanus	Ascidial.	Oithon	Pselido Spp.	openo	Bryozoa	(n=17-train=44)	0.07	0.06	0.06	
	Cirriped	d (larvae)	<b>%</b> !	1/2 JOD.	Pleopsis Sp.	3/20	<i>70</i> .	. Ode	Parace Oida (ci.ciii)	Castro, Spp.	"da (larva)	Polychi Alarae)	Ta (larva	Centrop medisa	Schinologes Spp.	Strata (la	TOTAL (NOC	d brachy,	non bra	Ascidial Spp.	Ca (larvage		opepo Ocalanus Spl	Bryozoa (nauplii)	Pseudocalanus spp. (n=7-train=65)	0.16	0.43	0.23	0.0
		,			~	Ø.					Bivalle Pools (larva)	linacina)	9	<i>)</i>	,	Calycop Jermata (la)	vae,	tophore,	Portanus Portacion de Rocae	hyura (lan	×		λ,	<i>!</i>	Copepoda (nauplii) (n=4-train=233)	0.04	0.50	0.08	
																				Ó	Pe)				Bryozoa (larvae) (n=1-train=50)	0.00	0.00	0.00	
											Р	redicte	u value	es											macro avg	0.41	0.50	0.42	
																									weighted avg	0.79	0.72	0.74	

## Predictions of discarded taxa from training

Acartia spp.	45.1% (n=272)	0.0%	0.0%	33.3% (n=1)	0.0%	0.0%	1.5% (n=5)		
Bivalvia (larvae)		0.0%	0.0%	0.0%	0.0%	20.0% (n=5)	34.0% (n=114)		
Bryozoa (larvae)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9% (n=3)		60
Calanoida (ci-ciii)	1.5% (n=9)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=1)		
Calycophorae (nectophore)	0.7% (n=4)	0.0%	3.2% (n=1)	0.0%	66.7% (n=2)	0.0%	0.0%		
Centropages spp.	0.8% (n=5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		50
Cirripedia (larvae)	3.0% (n=18)	0.0%	3.2% (n=1)	0.0%	0.0%	4.0% (n=1)	3.6% (n=12)		30
Copepoda (nauplii)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1% (n=7)		
Corycaeidae	8.6% (n=52)	0.0%	0.0%	33.3% (n=1)	0.0%	4.0% (n=1)	2.4% (n=8)		
Decapoda-brachyura (zoeae)	2.0% (n=12)	33.3% (n=2)	0.0%	0.0%	0.0%	0.0%	0.3% (n=1)		40
Decapoda-non brachyura (larvae)	0.2% (n=1)	66.7% (n=4)	0.0%	0.0%	0.0%	0.0%	0.6% (n=2)		
Echinodermata (larvae)	0.3% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=1)		
Evadne spp.	7.5% (n=45)	0.0%	12.9% (n=4)	33.3% (n=1)	0.0%	44.0% (n=11)	5.4% (n=18)		30
Fritillaria spp.	0.8% (n=5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=1)		
Gastropoda (larvae/Limacina)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.9% (n=23)		
Hydrozoa (medusa)	0.2% (n=1)	0.0%	51.6% (n=16)	0.0%	33.3% (n=1)	0.0%	0.9% (n=3)		20
Oikopleura spp.	1.0% (n=6)	0.0%	0.0%	0.0%	0.0%	0.0%	$0.3\%~\scriptscriptstyle{(n=1)}$		20
Oithona spp.	0.2% (n=1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Paracalanus spp.	25.2% (n=152)	0.0%	0.0%	0.0%	0.0%	0.0%	2.1% (n=7)		
Podon/Pleopsis spp.	1.5% (n=9)	0.0%	12.9% (n=4)	0.0%	0.0%	28.0% (n=7)	34.0% (n=114)		10
Polychaeta (larvae)	0.3% (n=2)	0.0%	16.1% (n=5)	0.0%	0.0%	0.0%	4.2% (n=14)		
Pseudocalanus spp.	0.5% (n=3)	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
	Calar	$c_{alan_{U}} \stackrel{C_{alan_{U}}}{\underset{id_{a}}{\sim}} (c_{i_{V-Vi}})$	$C_{t_{e_{n-1}}}$	Cyclopo hora (larvae)	$E_{uphy}$ $pid_{m{a}}$ $\binom{u_{nid}}{u_{nid}}$	O <sub>strace</sub> Sa spp. (medu	Zooplani Oda <sup>n</sup> ≈335 Saj		U
	$\eta \approx 603$	ida (ci.	$s_{p_p}^{n_{p_3/1}}$	hora //	$Pid_{a} \stackrel{\eta = 3}{\mu} \stackrel{\eta y}{=} $	$s_{a} s_{p_{D}} = 25^{a} c_{0}$	$p_{da} = \frac{1}{335} a_{nk}$	ton	
		Vi)	7	(larvae)	(unid)	medu	· ·	· (uni	d)
				,		4,	39)		

Predicted Taxa

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



