Use of SCN features: Yes

Max learning objects: Maximum objects/class Strategy N° 5

Actual Values

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

										C	onfus	ion M	latrix	- In	percei	nt of	Actua	ıl Val	ue									
Cirripedia (larvae)	70%	2%	<1%	12%	<1%	9%		<1%	<1%	1%		<1%	<1%	<1%	<1%	<1%	<1%		<1%				<1%	<1%		<1%	<	<1%
Acartia spp.	<1%	74%	<1%	<1%	<1%	1%	6%	1%	1%			<1%	<1%	<1%		<1%					<1%		15%	<1%				
Oikopleura spp.	<1%	3%	66%	2%	18%	3%	<1%	<1%	<1%	<1%		<1%	<1%	<1%	<1%	1%					<1%	<1%	<1%	<1%		<1%	<	<1%
Podon/Pleopsis spp.	8%	7%	<1%	45%	<1%	31%	<1%	1%	1%	1%	<1%	<1%	<1%			<1%	<1%						<1%	<1%		<1%		
Fritillaria spp.	<1%	5%	20%	<1%	64%	1%		<1%					1%		2%							<1%	4%			<1%	<	<1%
Evadne spp.	4%	1%	<1%	5%		76%	<1%	<1%	<1%	3%	<1%	<1%	5%		<1%	<1%							<1%			<1%	<	<1%
Corycaeidae	<1%	44%	<1%	1%	<1%	2%	43%	<1%	<1%					<1%		<1%			<1%				2%	2%			<	<1%
Calanoida (ci-ciii)	9%	14%	<1%	13%	<1%	19%	9%	13%	1%			1%			3%								13%			2%		
Paracalanus spp.	<1%	30%		2%	<1%	3%		2%	33%															28%				
Gastropoda (larvae/Limacina)	2%	3%		20%		13%		2%	<1%	50%	6%	<1%						<1%					2%			<1%		
Bivalvia (larvae)				6%		1%	1%			3%	83%		3%													2%		
Polychaeta (larvae)	17%	14%		11%		17%				3%		28%							5%					5%		2%		
Hydrozoa (medusa)		5%				4%						7%	75%			5%			2%					2%				
Centropages spp.		48%	2%		4%									22%					2%		4%			12%	6%			
Echinodermata (larvae)					2%	7%						5%	81%			2%			2%									
Calycophorae (nectophore)		8%										3%	3%	3%		76%			8%									
Decapoda-brachyura (zoeae)	3%	28%				3%		3%						6%		6%	47%		3%									
Ctenophora (larvae)	3%			10%		19%				6%		13%	35%			6%		3%										3%
ecapoda-non brachyura (larvae)				4%		4%								4%					73%				4%	4%	8%			
Ostracoda	4%			16%		36%	4%	4%			28%		4%							4%								
Tortanus spp.	4%	33%												25%		17%	4%		4%		12%							
Ascidiacea (larvae)			22%		17%																	61%						
Oithona spp.		53%			12%									6%									29%					
Pseudocalanus spp.		57%																						43%				
Calanus spp.														17%					33%					50%				
Copepoda (nauplii)										25%																75%		
Euphysa spp. (medusa)																100%												
Bryozoa (larvae)		A		8	<u> </u>	<u> </u>			δ		A	8			<u> </u>						<b>&gt;</b>	A		δ				δ
	Cirrip	Acarradia Maria	Oikopi Spp.	Codol Spp.	Pritille Pleopsis	Sp.	Coryce Spp.	Peida <sub>e</sub>	Parace Parace Ci.Ci.	Castle Planus Sp.	o Sivally	Polye, Vac/linate	Macta (lan	Centro (medical)	Chine Sp.	Cally Co	Decaporación (larvac)	Tectophore	Decaporal lara Roeco	Ostracol Oda non bro	Chylia /	Ascidle Sp. (lange)	. Dithon	PSEUDE SPA	, alangalanus	TUS SPD. SPD.	Euphysa s (nauplii)	Bryozog (A. Spp. (Medij
													Pr	edicte	d Valu	ies												

Classification Report Matrix

max	available learning objects per o						
	precision	recall	f1-score				
Cirripedia (larvae) (n=3231-train=7685)	0.94	0.70	0.80				
Acartia spp. (n=2290-train=111319)	0.78	0.74	0.76				
Oikopleura spp. (n=1773-train=5305)	0.91	0.66	0.76				
Podon/Pleopsis spp. (n=607-train=7347)	0.35	0.45	0.39				
Fritillaria spp. (n=475-train=6992)	0.46	0.64	0.53				
Evadne spp. (n=358-train=11064)	0.29	0.76	0.42				
Corycaeidae (n=335-train=1760)	0.47	0.43	0.45				
Calanoida (ci-ciii) (n=150-train=5557)	0.21	0.13	0.16				
Paracalanus spp. (n=141-train=1619)	0.51	0.33	0.40				
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.46	0.50	0.48				
Bivalvia (larvae) (n=96-train=3764)	0.82	0.83	0.83				
Polychaeta (larvae) (n=65-train=1577)	0.35	0.28	0.31				
<b>Hydrozoa (medusa)</b> (n=55-train=4052)	0.27	0.75	0.39				
Centropages spp. (n=50-train=3620)	0.38	0.22	0.28				
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00				
Calycophorae (nectophore) (n=37-train=966)	0.28	0.76	0.41				
Decapoda-brachyura (zoeae) (n=32-train=628)	0.47	0.47	0.47				
Ctenophora (larvae) (n=31-train=42)	0.50	0.03	0.06				
ecapoda-non brachyura (larvae) (n=26-train=423)	0.56	0.73	0.63				
Ostracoda (n=25-train=25)	1.00	0.04	0.08				
<b>Tortanus spp.</b> (n=24-train=203)	0.43	0.12	0.19				
Ascidiacea (larvae) (n=23-train=861)	0.78	0.61	0.68				
Oithona spp. (n=17-train=5881)	0.01	0.29	0.02				
Pseudocalanus spp. (n=7-train=4845)	0.04	0.43	0.07				
Calanus spp. (n=6-train=359)	0.00	0.00	0.00				
Copepoda (nauplii) (n=4-train=11555)	0.06	0.75	0.12				
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00				
Bryozoa (larvae) (n=1-train=1142)	0.00	0.00	0.00				
macro avg	0.40	0.42	0.35				
weighted avg	0.75	0.65	0.68				
	precision	recall	f1-score				

## Predictions of discarded taxa from training

Acartia spp.	52.7% (n=318)	0.0%	2.7% (n=9)	
Bivalvia (larvae)	0.0%	0.0%	31.0% (n=104)	50
Bryozoa (larvae)	0.2% (n=1)	0.0%	2.4% (n=8)	
Calanoida (ci-ciii)	5.0% (n=30)	0.0%	2.1% (n=7)	
Calycophorae (nectophore)	0.2% (n=1)	0.0%	0.0%	40
Centropages spp.	0.2% (n=1)	0.0%	0.0%	40
Cirripedia (larvae)	1.5% (n=9)	0.0%	1.8% (n=6)	
Copepoda (nauplii)	0.0%	0.0%	2.1% (n=7)	
<b>♡</b> Corycaeidae	9.6% (n=58)	33.3% (n=1)	2.1% (n=7)	20
Decapoda-non brachyura (larvae)  Echinodermata (larvae)  Evadne spp.  Fritillaria spp.	0.2% (n=1)	0.0%	0.3% (n=1)	30
Echinodermata (larvae)	0.2% (n=1)	0.0%	0.0%	
$\frac{9}{6}$ Evadne spp.	12.4% (n=75)	33.3% (n=1)	9.3% (n=31)	
Fritillaria spp.	0.5% (n=3)	0.0%	0.3% (n=1)	20
Gastropoda (larvae/Limacina)	0.0%	0.0%	18.2% (n=61)	20
Hydrozoa (medusa)	0.2% (n=1)	0.0%	5.7% (n=19)	
Oikopleura spp.	0.0%	0.0%	0.3% (n=1)	
Oithona spp.	11.4% (n=69)	33.3% (n=1)	0.3% (n=1)	10
Paracalanus spp.	2.8% (n=17)	0.0%	0.3% (n=1)	10
Podon/Pleopsis spp.	0.5% (n=3)	0.0%	20.3% (n=68)	
Polychaeta (larvae)	0.0%	0.0%	0.9% (n=3)	
Pseudocalanus spp.		0.0%	0.0%	0
	Calanoida (cil	Cyclopoida (u. √~vi)	Zooplankton (u	(nid)

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



