Use of SCN features: Yes

Actual Values

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

NL 2021 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

ma	x 20000 le	,	ects per cl
Acartia spp.	precision	recall	f1-score
(n=2490-train=20000)	0.73	0.81	0.77
Evadne spp. (n=1931-train=11064)	0.91	0.88	0.89
Temora spp. (n=1416-train=7347)	0.69	0.57	0.63
Pseudocalanus spp. (n=1044-train=4845)	0.67	0.47	0.55
Oithona spp. (n=345-train=5881)	0.76	0.74	0.75
Bryozoa (larvae) (n=248-train=1142)	0.94	0.48	0.64
Podon/Pleopsis spp. (n=230-train=7347)	0.34	0.24	0.28
Calanoida (ci-ciii) (n=130-train=5557)	0.12	0.19	0.15
Oikopleura spp. (n=115-train=5305)	0.76	0.70	0.73
Centropages spp. (n=88-train=3620)	0.27	0.80	0.40
Echinodermata (larvae) (n=50-train=3043)	0.60	0.12	0.20
Gastropoda (larvae/Limacina) (n=47-train=3272)	0.53	0.70	0.61
Harpacticoida- epibenthic (n=47-train=555)	0.71	0.26	0.37
Hydrozoa (medusa) (n=47-train=4052)	0.11	0.28	0.16
Bivalvia (larvae) (n=44-train=3764)	0.78	0.70	0.74
Fritillaria spp. (n=34-train=6992)	0.24	0.62	0.35
Microcalanus spp. (n=31-train=80)	0.40	0.06	0.11
Chaetognatha (n=28-train=89)	0.88	0.54	0.67
Polychaeta (larvae) (n=20-train=1577)	0.15	0.35	0.21
Calanus spp. (n=14-train=359)	0.67	0.71	0.69
Eurytemora spp. (n=10-train=1818)	0.00	0.00	0.00
Tortanus spp. (n=2-train=203)	0.25	0.50	0.33
Decapoda-non brachyura (larvae) (n=1-train=423)	0.00	0.00	0.00
Cirripedia (larvae) (n=0-train=7685)	-	_	_
Copepoda (nauplii) (n=0-train=11555)	_	_	_
Obelia spp. (medusa) (n=0-train=1003)	_	_	_
Euphausiacea (larvae) (n=0-train=87)	_	_	_
Euphausiacea (nauplii) (n=0-train=67)	_	_	-
macro avg (corr)	0.50	0.47	0.44
	0.72	0.60	0.70

weighted avg 0.73

0.70

precision recall f1-score

		Confusion Matrix – In percent of Actual Value																									
Acartia spp.	81%	<1%	6%	5%	1%		<1%	2%	<1%	3%			<1%			<1%	<1%		<1%		<1%			<1%		<1%	<1%
Evadne spp.	<1%	88%	<1%	<1%	<1%	<1%	4%	<1%			<1%	1%	<1%	4%	<1%	<1%			<1%					2%	<1%	<1%	
Temora spp.	20%	2%	57%	6%	2%	<1%	<1%	6%		4%							<1%		<1%		2%			<1%		<1%	<1%
Pseudocalanus spp.	31%		12%	47%				3%		4%										<1%	2%			<1%			
Oithona spp.	17%	<1%	<1%		74%			1%	<1%	1%	<1%					3%					<1%			<1%			
Bryozoa (larvae)		29%	<1%		<1%	48%	2%	1%			<1%		<1%	7%		<1%			2%					5%	2%		
Podon/Pleopsis spp.	3%	13%	22%	3%			24%	3%	<1%	<1%				<1%			<1%		10%		<1%		6%	11%	<1%	1%	
Calanoida (ci-ciii)	20%	13%	12%	4%	4%	<1%	13%	19%		3%									2%	<1%	2%		<1%	5%			<1%
Oikopleura spp.	<1%		3%	<1%	2%				70%							14%		2%					7%				
Centropages spp.	10%		3%	1%						80%												3%	2%				
Echinodermata (larvae)	2%				18%		2%	2%	2%		12%					50%			2%				2%	6%		2%	
Gastropoda (larvae/Limacina)		2%					2%					70%		4%	15%				6%								
Harpacticoida- epibenthic	43%	4%	9%	4%	4%			2%					26%								6%			2%			
Hydrozoa (medusa)		2%				2%	6%				2%			28%		6%							2%	9%		43%	
Bivalvia (larvae)						2%	2%					7%		7%	70%				2%						9%		
Fritillaria spp.					12%				26%							62%											
Microcalanus spp.	6%	10%	10%	13%			13%	26%				3%					6%		3%		6%			3%			
Chaetognatha									39%									54%	4%	4%							
Polychaeta (larvae)	5%			5%			10%					10%	5%						35%				5%	25%			
Calanus spp.				14%						7%										71%			7%				
Eurytemora spp.	30%		20%	20%						30%																	
Tortanus spp.										50%												50%					
capoda–non brachyura (larvae)	A	<u> </u>	>	\triangleright	0.	\Diamond	<i>⊗</i>		0.		<u> </u>		<i>\</i>	<i>k</i>	R.	<u> </u>	1.		\Diamond	100%	∧	>	\wedge	<u> </u>		0.	
	Acarth	, Vad,	ine Spp.	Selle Spp.	Oithon Oithon	Bryoz Na Spp. Spp.	Podon, Od Maride	Pleopsis	Oikopi Oida (ci.ci.	Cura Spp.	Chine Sp.	odernata (Harpal (lande)	Ticoida Noc/1:	Bivall Roa (medi Chiber	Pritille (lange)	Ticro	Chaeto	Olycharha	Saeta (lan	is Spp.	Tortanora Spp.	145 SPD.	Poda non	Open Colia Carva	Obelia Sp. (nauplii) (lange)	Mausiacea (lange)
													·9	MAC	ing)	<u>.</u>									SUFO	(lange)	
															d Valı	ıes										8)	Extra training classes

Predictions of discarded taxa from training





