Use of SCN features: Yes

Max learning objects: 200 objects/class Strategy N° 3

Actual Values

NL 2021 Selected Samples prediction using NL 2021 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

Confusion Matrix - In percent of Actual Value

Classification Report Matrix max 200 learning objects per class

recall

f1-score

								Contust	on Matr	ιx – In	percent	ot Actua	at vatue							
Acartia spp.	50%	<1%	7%	14%	5%	<1%		4%	<1%	<1%	<1%	14%			<1%	3%				1%
Evadne spp.		82%	<1%	<1%	<1%	6%	7%	<1%			<1%	<1%	2%	<1%	<1%	<1%		<1%		
Temora spp.	11%	1%	43%	10%	9%	<1%	<1%	13%		<1%	<1%	5%			<1%	4%		<1%		3%
Pseudocalanus spp.	19%		12%	46%	<1%			6%		<1%	<1%	5%			<1%	5%			<1%	6%
Oithona spp.	8%	<1%	<1%	<1%	83%	<1%		<1%			<1%	<1%			3%					<1%
Bryozoa (larvae)		6%				89%	1%				<1%		2%		<1%	<1%				
Podon/Pleopsis spp.		7%	10%	<1%	<1%	5%	26%	3%	<1%	<1%	<1%	2%				17%		26%		<1%
Calanoida (ci-ciii)	9%	12%	5%	4%	7%	6%	8%	10%			4%	3%				26%		<1%	<1%	5%
Oikopleura spp.			3%	3%	3%	<1%		<1%	68%		<1%				10%		7%	<1%	3%	<1%
Centropages spp.	18%		5%	2%						68%									1%	6%
Echinodermata (larvae)	8%				22%	2%	2%		2%		28%				32%			4%		
Harpacticoida- epibenthic			4%	4%	9%	2%		4%				74%				2%				
Gastropoda (larvae/Limacina)		6%					13%						64%	11%				6%		
Bivalvia (larvae)						5%	5%						11%	80%						
Fritillaria spp.					15%				3%		9%				74%					
Microcalanus spp.		6%		3%	3%		6%	6%				6%				61%		6%		
Chaetognatha									18%						4%		75%		4%	
Polychaeta (larvae)	5%				15%	5%	20%						5%	5%		5%		35%	5%	
Calanus spp.										7%									86%	7%
Eurytemora spp.	20%	€.	20%	30%	O;	Ø,	⊘	C.	<i>O.</i> .	C	Ć.	4.	C.	Ø;	☆ .	4.	C _k	8.	C .	30% &.
	Acartia	Evadno Son	Pp.	SPP. SCHOOL	Oithona alanus Spp.	Spp.	(lange odon)	Calanou	Oikoples	Ira Sp.	Chinode Spp.	Harpacti Armata (lange)	icoida ***Strope	Bivalvia Manage	Priliport	. Vcrocale	Chactog,	natha olychae	Calanus (larvae)	Spp. Surytemo.
					Spp		40)	18 July 1	Ciij	Di	<i>70</i> 0.	(lande)	Castrope icoida epiben	Bivalvia Pola (lanae/lin)	aci.		500		naej	
										Dradicto	d Valuas				1/4)					
	Predicted Values																			

	F		
Acartia spp. (n=2490-train=200)	0.75	0.50	0.60
Evadne spp. (n=1931-train=200)	0.95	0.82	0.88
Temora spp. (n=1416-train=200)	0.63	0.43	0.51
Pseudocalanus spp. (n=1044-train=200)	0.48	0.46	0.47
Oithona spp. (n=345-train=200)	0.48	0.83	0.61
Bryozoa (larvae) (n=248-train=119)	0.59	0.89	0.71
Podon/Pleopsis spp. (n=230-train=200)	0.26	0.26	0.26
Calanoida (ci-ciii) (n=130-train=200)	0.03	0.10	0.05
Oikopleura spp. (n=115-train=200)	0.90	0.68	0.77
Centropages spp. (n=88-train=40)	0.90	0.68	0.77
Echinodermata (larvae) (n=50-train=200)	0.30	0.28	0.29
Harpacticoida- epibenthic (n=47-train=136)	0.07	0.74	0.13
stropoda (larvae/Limacina) (n=47-train=110)	0.43	0.64	0.51
Bivalvia (larvae) (n=44-train=71)	0.69	0.80	0.74
Fritillaria spp. (n=34-train=200)	0.27	0.74	0.40
Microcalanus spp. (n=31-train=80)	0.07	0.61	0.12
Chaetognatha (n=28-train=67)	0.72	0.75	0.74
Polychaeta (larvae) (n=20-train=200)	0.08	0.35	0.13
Calanus spp. (n=14-train=200)	0.52	0.86	0.65
Eurytemora spp. (n=10-train=88)	0.02	0.30	0.04
macro avg	0.46	0.59	0.47
weighted avg	0.69	0.58	0.61
	precision	recall	f1-score

Predictions of discarded taxa from training 0.0% 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% Acartia spp. 0.0% 14.2% (n=195) 0.0% 0.0% 0.0% 50.0% (n=1) 8.8% (n=28) Bivalvia (larvae) 0.0% 0.0% 0.0% 0.0% 0.0% 2.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% Bryozoa (larvae) 0.0% 2.0% (n=27) 0.0% 0.0% 0.0% 8.5% (n=4) 0.0% 0.0% 100.0% (n=2) 0.0% 0.0% 15.4% (n=49) 0.0% Calanoida (ci-ciii) 0.0% 2.5% (n=8) 0.0% 13.0% (n=178) 0.0% 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 80 Calanus spp. 55.6% (n=5) 0.1% (n=1) 0.0% 100.0% (n=1) 0.0% 10.6% (n=5) 0.0% 0.0% 0.0% 25.0% (n=1) 50.0% (n=1) 0.6% (n=2) 0.0% 0.1% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Centropages spp. 0.0% 0.9% (n=12) 0.0% 0.0% 0.0% 0.0% 2.5% (n=8) Echinodermata (larvae) 0.0% 0.0% 4.3% (n=2) 0.0% 0.0% 25.0% (n=1) 0.0% 0.0% Eurytemora spp. 0.0% 1.5% (n=21) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% **Predicted Taxa** 60 Evadne spp. 0.0% 3.8% (n=52) 50.0% (n=1) 0.0% 0.0% 10.6% (n=5) 0.0% 0.0% 0.0% 0.0% 0.0% 15.7% (n=50) Fritillaria spp. 0.0% 1.6% (n=22) 0.0% 0.0% 0.0% 19.1% (n=9) 0.0% 0.0% 0.0% 0.0% 0.0% 0.9% (n=3) 2.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% 0.0% 12.9% (n=41) Gastropoda (larvae/Limacina) 11.5% (n=158) 0.0% 0.0% 0.0% 0.0% 0.0% 66.7% (n=4) 0.0% 0.0% 0.0% 0.9% (n=3) 40 0.0% Harpacticoida – epibenthic 4.3% (n=2) 0.0% Microcalanus spp. 0.0% 7.9% (n=108) 50.0% (n=1)0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 5.3% (n=17) 0.0% 0.0% Oikopleura spp. 0.1% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 3.1% (n=10) Oithona spp. 0.0% 20.7% (n=283) 0.0% 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% 0.0% 20 Podon/Pleopsis spp. 0.0% 1.1% (n=15) 0.0% 0.0% 0.0% 8.5% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 19.8% (n=63) 9.4% (n=30) Polychaeta (larvae) 44.4% (n=4) 0.3% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 50.0% (n=2) 0.0% 29.8% (n=14) 0.0% 11.8% (n=162) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.9% (n=3) Pseudocalanus spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.9% (n=3) 9.3% (n=128) Temora spp. Decapoda-non brachyura (larvae) Sarsia spp. " (medusa) Zooplankton (unid) Aglantha n=1370 1000, n=9 (medusa) Hydrozoa (medusa) Oncaeidae spp. Calanoida "=< n=1370 (civ-vi) Cyclopoida "_____ Monstrillidae Tortanus spp. Ostracoda

Actual discarded Taxa



