Use of SCN features: No

Max learning objects: Maximum 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

Classifica	ation Report Matrix
max available	learning objects per class

f1-score

precision

											ı									
Acartia spp.	73%	<1%	7%	8%	3%			8%		<1%		<1%			<1%	<1%		<1%		
Evadne spp.		94%	<1%	<1%	<1%	<1%	2%	1%			<1%		<1%	<1%	<1%			<1%		
Temora spp.	14%	2%	57%	8%	3%	<1%		16%				<1%			<1%	<1%				
Pseudocalanus spp.	20%		13%	58%	<1%			8%				<1%				<1%			<1%	
Oithona spp.	12%	<1%	<1%		80%	<1%		3%			<1%				3%					
Bryozoa (larvae)		41%				50%	<1%	4%			2%	<1%	2%		<1%			<1%		
Podon/Pleopsis spp.	1%	17%	22%	1%		<1%	15%	18%							<1%	2%		23%		
Calanoida (ci-ciii)	12%	10%	10%	8%	3%	<1%	6%	44%								5%		<1%	<1%	
Oikopleura spp.			3%	3%	2%	<1%		<1%	63%		<1%				24%				2%	
Centropages spp.	64%		7%	2%					1%	25%									1%	
Echinodermata (larvae)	4%				20%		2%	6%	2%		20%				44%			2%		
Harpacticoida- epibenthic	26%		6%	11%	9%			15%				34%								
stropoda (larvae/Limacina)		9%					11%						57%	11%				13%		
Bivalvia (larvae)						5%	5%						16%	75%						
Fritillaria spp.	3%				9%			6%	3%		3%				76%					
Microcalanus spp.		13%	6%	10%				48%								16%		6%		
Chaetognatha									32%						7%		61%			
Polychaeta (larvae)		10%	15%	5%	5%		5%	10%										50%		
Calanus spp.	7%			21%															71%	
Eurytemora spp.			20%	30%																
	Acartia	Evadno SPP.	Temoro SPD:	Spp.	Oithona Calanus Spp.	Bryotos Spp.	Podon,	Calanole Calanole (Sleopsis Spp.	Oikople ida (ci.ciii)	Centrope	Schinodo 19es Spp.	Harpacia Canae	Costrop	Biralia Poda (larrae/Life	Pritillar (larvae)	Microco	Chaetog	Polycha Polycha	Calanus (lande)	EUTYTON, SPP.
					Ņ			~⁄⊅.				"nag) Gen	thic "Lin	Macina)				9	
										Dradicto	d Valuas									

	precision	recall	f1-score
weighted avg	0.74	0.69	0.71
macro avg	0.57	0.51	0.50
Eurytemora spp. (n=10-train=88)	0.00	0.00	0.00
Calanus spp. (n=14-train=213)	0.62	0.71	0.67
Polychaeta (larvae) (n=20-train=452)	0.12	0.50	0.19
Chaetognatha (n=28-train=67)	1.00	0.61	0.76
Microcalanus spp. (n=31-train=80)	0.22	0.16	0.19
Fritillaria spp. (n=34-train=3447)	0.24	0.76	0.37
Bivalvia (larvae) (n=44-train=71)	0.77	0.75	0.76
stropoda (larvae/Limacina) (n=47-train=110)	0.52	0.57	0.55
Harpacticoida- epibenthic (n=47-train=136)	0.64	0.34	0.44
Echinodermata (larvae) (n=50-train=276)	0.56	0.20	0.29
Centropages spp. (n=88-train=40)	0.96	0.25	0.40
Oikopleura spp. (n=115-train=761)	0.86	0.63	0.73
Calanoida (ci-ciii) (n=130-train=3713)	0.08	0.44	0.14
Podon/Pleopsis spp. (n=230-train=201)	0.35	0.15	0.21
Bryozoa (larvae) (n=248-train=119)	0.91	0.50	0.64
Oithona spp. (n=345-train=1409)		0.80	0.73
Pseudocalanus spp. (n=1044-train=4552)	0.64	0.58	0.61
Temora spp. (n=1416-train=5148)	0.66	0.57	0.61
Evadne spp. (n=1931-train=2845)	0.90	0.94	0.92
Acartia spp. (n=2490-train=5448)	0.77	0.73	0.75

Predicted Values

Predictions of discarded taxa from training Acartia spp. 0.0% 25.7% (n=352) 0.0% 0.0% 0.0% 0.0% 100.0% (n=1) 16.7% (n=1)0.0% 0.0% 0.9% (n=3) 50.0% (n=1) Bivalvia (larvae) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 10.4% (n=33) 0.5% (n=7) 0.0% 50.0% (n=1) 0.0% 0.0% 0.0% 2.1% (n=1) 0.0% 0.0% 4.1% (n=13) Bryozoa (larvae) 0.0% 0.0% 0.0% 80 Calanoida (ci-ciii) 0.0% 32.4% (n=444) 0.0% 0.0% 0.0% 6.4% (n=3) 0.0% 16.7% (n=1) 50.0% (n=1)0.0% 5.3% (n=17) Calanus spp. 33.3% (n=3) 0.1% (n=1) 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% 0.0% 25.0% (n=1) 50.0% (n=1) 0.6% (n=2) 10.6% (n=5) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.6% (n=5) Echinodermata (larvae) 0.0% 0.0% 4.3% (n=2) 0.0% 4.5% (n=61) 50.0% (n=1) 0.0% 0.0% 0.0% 0.0% Evadne spp. 0.0% 23.4% (n=11) 0.0% 0.0% 0.0% 34.9% (n=111) 60 0.0% 0.0% 0.0% 0.0% 25.5% (n=12) 0.0% 0.0% 25.0% (n=1) 0.0% 3.5% (n=11) Fritillaria spp. 1.5% (n=21) 0.0% Gastropoda (larvae/Limacina) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 9.7% (n=31) 0.0% 0.0% 33.3% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=2) 0.0% 0.0% 0.0% Harpacticoida- epibenthic 40 0.0% Microcalanus spp. 0.2% (n=3) 50.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.9% (n=3) Oikopleura spp. 11.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.3% (n=1) 0.1% (n=2) Oithona spp. 0.0% 10.2% (n=140) 0.0% 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% 0.0% 2.8% (n=9) Podon/Pleopsis spp. 0.0% 0.9% (n=13) 0.0% 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 11.6% (n=37) 2.1% (n=1) 20 Polychaeta (larvae) 55.6% (n=5) 0.0% 0.0% 0.4% (n=5) 0.0% 0.0% 25.5% (n=12) 0.0% 0.0% 0.0% 50.0% (n=2) 8.8% (n=28) 0.0% 16.7% (n=1) 0.0% 3.8% (n=12) Pseudocalanus spp. 12.3% (n=168) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 11.0% (n=151) Temora spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.6% (n=2) Decapoda-non brachyura (larvae) Sarsia spp. " (medusa) Zooplankton (unid) Aglantha n=1370 1000, n=9 (medusa) Oncaeidae 'spp. Calanoida ">< 1370 (civ-vi) Cyclopoida " (unid) Hydrozoa (medusa) Monstrillidae Tortanus spp. Ostracoda

Taxa

Predicted

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



