Use of SCN features: No

Max learning objects: 20000 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 20000 learning objects per class

precision recall f1-score

								Comusi	on Matt	ıx – m p	percent	or Actu	at value										ecision	recall	f1-score	
Acartia spp.	73%	<1%	7%	8%	3%			8%		<1%	<1%	<1%			<1%	<1%		<1%			Acartia sp (n=2490-train=544	pp.	0.78	0.73	0.75	
Evadne spp.		94%	<1%	<1%	<1%	<1%	2%	1%					<1%	<1%	<1%			<1%			Evadne sp (n=1931-train=284	p. (5)	0.90	0.94	0.92	
Temora spp.	14%	2%	57%	9%	2%		<1%	16%				<1%				<1%					Temora sp (n=1416-train=514	p. ,8)	0.67	0.57	0.62	
Pseudocalanus spp.			13%	58%	<1%	10		8%				<1%				<1%		<1%	<1%		Pseudocalanus sp (n=1044-train=455	p. 52)	0.64	0.58	0.61	1.0
Oithona spp. Bryozoa (larvae)	11%	1% 38%	<1%		80%	<1% 50%	1%	3% 4%			2%	<1% 1%	2%		3% <1%	<1%		<1%			Oithona sp (n=345-train=140	p. 19)	0.67	0.80	0.73	
Podon/Pleopsis spp.	1%	16%	21%	2%		<1%	19%	17%			2.0	170	270		<1%	2%		21%			Bryozoa (larva (n=248-train=11	e) 9)	0.93	0.50	0.65	
Calanoida (ci-ciii)		9%	11%	8%	3%	<1%	7%	42%								5%		2%	<1%		Podon/Pleopsis sp (n=230-train=20	p. 11)	0.40	0.19	0.26	0.0
Oikopleura spp.			<1%	4%	2%			2%	64%		<1%				24%				2%		Calanoida (ci-ci (n=130-train=371	ii) 3)	0.08	0.42	0.13	
Centropages spp.	62%		7%	1%					2%	26%									1%		Oikopleura sp (n=115-train=76	pp.	0.85	0.64	0.73	
Echinodermata (larvae)	6%				18%		2%	6%	2%		22%				42%			2%			Centropages sp (n=88-train=4		0.92	0.26	0.41	0.6
Harpacticoida- epibenthic	21%		6%	9%	9%			15%				40%									Echinodermata (larva (n=50-train=27	e)	0.61	0.22	0.32	
Gastropoda (larvae/Limacina)		9%				<u> </u>	9%						60%	11%				13%			Harpacticoida- epibenth (n=47-train=13	nic (0.56	0.40	0.47	
Bivalvia (larvae) Fritillaria spp.		2%			9%	5%	5%	6%	3%		3%		14%	75%	79%						Gastropoda (larvae/Limacin (n=47-train=11	a) (0.53	0.60	0.56	0.4
Microcalanus spp.		10%	3%	10%	370			52%	5/0		370	3%			7 3 20	16%		6%			Bivalvia (larva (n=44-train=7	ie)	0.79	0.75	0.77	
Chaetognatha									32%						11%		57%				Fritillaria sp (n=34-train=344	p	0.25	0.79	0.39	
Polychaeta (larvae)	5%	15%	10%	5%	5%			15%										45%			Microcalanus sp (n=31-train=8		0.24	0.16	0.19	
Calanus spp.				21%						7%									71%		Chaetognath (n=28-train=6		1.00	0.57	0.73	0.2
Eurytemora spp.			10%	30%																	Polychaeta (larva		0.11	0.45	0.18	
	Acartia,	Evadne Spp.	Pop.	Sop.	Oithons Spp.	SPA	Podon/	Colanoity Colonsis Spp.	Oikopley,	Centropa	Schinodo 19es Spp.	Parpal Paral Paral	Castrop	Bivalvia Pola (lande/Lin	Pritillarie	Microcale Spr.	Chaetogh anus Spp.	Polychae	Calanus SP,	Curytemore Sp.	(n=20-train=45 Calanus sp (n=14-train=21		0.62	0.71	0.67	
					15 Mg.	·	'ae)		Ciij	20.	<i>Sp.</i>	la (lana)	Diben.	thic lange line	acio	· <i>X</i> ,	<i>SPD</i> .	•	(ande)	· %	(n=14-train=21 Eurytemora sp (n=10-train=8		0.00	0.00	0.00	0.0
										Predicte	d Values				<i>"(a)</i>								0.58	0.52	0.50	
																					macro av					
																					weighted av	g	0.74	0.70	0.71	

Predictions of discarded taxa from training Acartia spp. 0.0% 24.7% (n=339) 0.0% 0.0% 0.0% 0.0% 100.0% (n=1) 16.7% (n=1)0.0% 0.0% 0.6% (n=2) 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% 9.1% (n=29) 0.4% (n=5) 0.0% 50.0% (n=1) 0.0% 4.4% (n=14) 0.0% 0.0% 2.1% (n=1) 0.0% 0.0% Bryozoa (larvae) 0.0% 0.0% 0.0% 80 Calanoida (ci-ciii) 0.0% 32.0% (n=438) 0.0% 0.0% 0.0% 4.3% (n=2) 0.0% 16.7% (n=1) 50.0% (n=1)0.0% 6.9% (n=22) 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% 0.9% (n=3) Echinodermata (larvae) 0.0% 0.0% 4.3% (n=2) 0.0% 0.0% 0.0% 25.5% (n=12) 0.0% 0.0% Evadne spp. 0.0% 5.0% (n=68) 50.0% (n=1) 0.0% 0.0% 0.0% 34.3% (n=109) 60 0.0% 0.0% 0.0% 0.0% 25.5% (n=12) 0.0% 0.0% 25.0% (n=1) 0.0% 3.8% (n=12) Fritillaria spp. 1.3% (n=18) 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% 8.8% (n=28) 0.0% 0.4% (n=6) 0.0% 0.0% 33.3% (n=2) 0.0% 0.0% 0.0% 0.3% (n=1) 0.0% 0.0% 0.0% Harpacticoida- epibenthic 40 0.0% Microcalanus spp. 0.3% (n=4) 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) 0.1% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Oithona spp. 0.0% 10.6% (n=145) 0.0% 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% 0.0% 2.5% (n=8) Podon/Pleopsis spp. 0.0% 0.8% (n=11) 0.0% 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 11.9% (n=38) 2.1% (n=1) 20 Polychaeta (larvae) 55.6% (n=5) 0.0% 0.0% 0.7% (n=10) 0.0% 0.0% 25.5% (n=12) 0.0% 0.0% 0.0% 50.0% (n=2) 9.7% (n=31) 0.0% 12.6% (n=172) 16.7% (n=1) 0.0% 3.8% (n=12) Pseudocalanus spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Temora spp. 0.0% 11.0% (n=151) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.3% (n=4) Decapoda-non brachyura (larvae) Sarsia spp. " (medusa) Aglantha n=1370 1000, n=9 (medusa) Oncaeidae 'spp. Zooplankton (unid) 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



