Use of SCN features: No

Max learning objects: Maximum objects/class Strategy N° 6

Actual Values

NL 2021 Selected Samples prediction using all regions training set, Learning with all classes present in the selected samples, with extra regional training categories, No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classific	ation Report Matrix
max available	learning objects per class

precision recall f1-score

									Co	nfusi	ion M	atrix – l	n percer	nt of Ac	ctual Va	alue								max avaitable learning objects per class					
	0.40	40	20	40 40		40	4.0	40 40				40	4.0		4.0					4.0			40	Acartia spp.	precision		f1-score	ı	
Acartia spp.			2% <	1% <1%	ó	<1%	<1% <	<1% <1%				<1%	<1%		<1%					<1%			1% 	(n=2490-train=111319)	0.00	0.94	0.78		
Evadne spp.	<1%	88%		<1%	<1%	4%	<1%		<1% 2%	4%	<1%	<1%		<1%						2%	<1% <1%	%		Evadne spp. (n=1931-train=11064)	0.92	0.88	0.90		
Temora spp.	34%	2% 5	50% 4	1%	<1%	<1%	3%	2%			<1%	<1%		<1%	<1%					2%	<1	<	<mark>1%</mark>	Temora spp. (n=1416-train=7347)	0.76	0.50	0.60		
Pseudocalanus spp.	46%		9% 4	0%			2%	2%						<1% <	<1% <1%				<1%					Pseudocalanus spp. (n=1044-train=4845)	0.81	0.40	0.54		
Oithona spp.	25%	<1% <	<1%	70%			<1%	<1%	<1%			2%								<1%				Oithona spp. (n=345-train=5881)	0.83	0.70	0.76		
Bryozoa (larvae)		23%		1%	56%	2%	1% <	<1%	<1%	8%	<1%	<1%		<1%						4%	2% <1	%		Bryozoa (larvae) (n=248-train=1142)	0.02	0.56	0.70		
Podon/Pleopsis spp.	7%	12% 2	20% <	1%	<1%	27%	1% <	<1% <1%		<1%	i			10%	<1%				4%	12%	<1% 1%			Podon/Pleopsis spp. (n=230-train=7347)	0.36	0.27	0.31		
Calanoida (ci-ciii)	30%	10% 1	14% 5	5% 3%		12%	12%	2%					<1%	2% <	<1%				<1%	5%	4%			Calanoida (ci-ciii) (n=130-train=5557)	0.14	0.12	0.13		
Oikopleura spp.	2%		2% 2	2% <1%	б		7	' 6%				9%	2%						6%		2%			Oikopleura spp.	0.76	0.76	0.76		
Centropages spp.	20%		5% 1	%				67%							1%			5%	1%					(n=115-train=5305) Centropages spp.	0.45	0.67	0.54	0.8	
Echinodermata (larvae)	10%			8%		2%	2%	6%	12%			46%		2%					2%	6%	2%	2	2%	(n=88-train=3620) Echinodermata (larvae)	0.55	0.12	0.20		
Gastropoda (larvae/Limacina)		2%				4%			64%	4%		13%		13%										(n=50-train=3043) Gastropoda (larvae/Limacina)	0.46	0.64	0.54		
Hydrozoa (medusa)		2%				6%			2%	30%		4%				6%			2%	11%	2% 34%	ó		(n=47-train=3272) Hydrozoa (medusa)	0.12	0.30	0.17		
Harpacticoida- epibenthic	81%	2%	2%	2%			2%				4%				4%						2%			(n=47-train=4052) Harpacticoida- epibenthic	0.22	0.04	0.08		
Bivalvia (larvae)					5%	5%			5%	5%		73%									9%			(n=47-train=555) Bivalvia (larvae)	0.90	0.73	0.76	0.6	
Fritillaria spp.	6%			9%			2	29%				56%												(n=44-train=3764) Fritillaria spp.					
Microcalanus spp.	23%	10%	6% 6	5%		16%	19%		3%				10%	3%						3%				(n=34-train=6992) Microcalanus spp.	0.20	0.56	0.37		
Chaetognatha							3	32%					61%	4%					4%					(n=31-train=80) Chaetognatha	0.50	0.10	0.16		
Polychaeta (larvae)	5%		5	5%		5%			10%	í	5%			40%					5%	25%				(n=28-train=89) Polychaeta (larvae)	0.03	0.61	0.72		
Calanus spp.			7	7%				7%						7	'9%				7%					(n=20-train=1577) Calanus spp.	0.17	0.40	0.24	0.4	
Eurytemora spp.	70%	2	20% 1	0%																				(n=14-train=359)	0.09	0.79	0.73	0.1	
Aglantha spp. (medusa)							1	1%		33%						33%	11%				119	ó		Eurytemora spp. (n=10-train=1818)	0.00	0.00	0.00		
Oncaeidae spp.	100%																							Aglantha spp. (medusa) (n=9-train=22)	0.30	0.33	0.40		
Sarsia spp. (medusa)												25%					25%				50%	ó		Oncaeidae spp. (n=6-train=18)	0.00	0.00	0.00		
Ostracoda					50%									50%										Sarsia spp. (medusa) (n=4-train=4)	0.50	0.25	0.33		
Tortanus spp.	50%																	50%						Ostracoda (n=2-train=25)	0.00	0.00	0.00	0.2	
Monstrillidae																								Tortanus spp. (n=2-train=203)	0.20	0.50	0.29		
ecapoda–non brachyura (larvae)														10	00%									Monstrillidae (n=1-train=27)	0.00	0.00	0.00		
ccapoda non bracingara (tarvac)		€ _k	<i>></i>	O;	S.	S _O	Ç,	O; C	\$ C	4.	4	<i>S_i S_c</i> .	1/2: C			1 do 1 00	\$ 0.	10. 40	0	C;	$C_{\alpha} O_{\beta}$		<u> </u>	Decapoda-non brachyura (larvae)	0.00	0.00	0.00		
	d)	Tio Spp.	Spp.	Seldocal.	Mona Sp.	Podon/	Planoit	Oitopleura S	topage hinoder	Tropod	Totod To	Bivalvia Car.	Microcaland	Petognatha	Calanus Spp.	Aglantha St.	Capillan Spp	Tortanus Spp.	Decap Strillidae	Doda Ti	pedia Poda	Clia Phaust	Phallsia	Cirripedia (larvae) (n=0-train=7685)		_	_		
		2	· 22	Selidocalar	745 M	Podon, lande	ODS'S	Oikopleura Spo	Topages Sp.	Ta (lar	Harpa (ne	The Spir	Microcaland	Polychae is Spp.	(large)		Sarsia Spp. Job. (medusa)	medus PD.) Job	70/	Topepoda (larvae)	Pauplii) medi	Cuphausiacea (nauplii)	Copepoda (nauplii) (n=0-train=11555)		_	_	0.0	
					, .			N.		. 10	des "(i)	Bivalvia Prite (lar. Musa) Spibe	Phic		J.		41129)	*9)			Copepoda (larvae) On brachyura (la		" " " " " " Plii)	Obetta Spp. (ilicaasa)		_	_		
												9)									, ,	Nac.	Extra	(n=0-train=1003) Euphausiacea (larvae)		_	_		
												Predi	cted Valu	es									training classes	(n=0-train=87) Euphausiacea (nauplii)		_	_		
																								(n=0-train=145) macro avg (corr)		0.40	0.39		
																										0.70	0.59		
																								weighted avg	0.74	0.70	0.70		

Acartia spp.

Decapoda-non brachyura (larvae)

Gastropoda (larvae/Limacina)

Harpacticoida- epibenthic

Hydrozoa (medusa)

Oikopleura spp.

Oithona spp.

Ostracoda

Temora spp.

Obelia spp. (medusa)

Podon/Pleopsis spp.

Polychaeta (larvae)

Pseudocalanus spp.

Predicted Taxa

Aglantha spp. (medusa)

Bivalvia (larvae)

Bryozoa (larvae)

Calanus spp.

Calanoida (ci-ciii)

Centropages spp.

Cirripedia (larvae)

Copepoda (nauplii)

Eurytemora spp.

Evadne spp.

Fritillaria spp.

Echinodermata (larvae)

Predictions of discarded taxa from training 100 $64.\overline{6\%}$ (n=885) 0.0% 0.0% 3.1% (n=10) 0.0% 0.0% 0.0% 0.6% (n=2) 0.0% 0.0% 0.0% 4.1% (n=13) 0.1% (n=2) 0.0% 0.0% 6.6% (n=21) 4.1% (n=56) 50.0% (n=1) 0.0% 1.3% (n=4) 80 0.0% 0.1% (n=1) 0.0% 0.0% 0.6% (n=8) 0.0% 0.0% 0.0% 3.1% (n=42) 0.0% 0.0% 3.5% (n=11) 0.4% (n=6) 0.0% 0.0% 3.5% (n=11) 0.0% 0.0% 0.0% 0.9% (n=3) 60 0.0% 0.0% 0.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.4% (n=6) 50.0% (n=1) 5.0% (n=69) 0.0% 20.8% (n=66) 0.4% (n=5) 0.0% 0.0% 2.8% (n=9) 10.4% (n=33) 0.1% (n=1) 0.0% 0.0% 40 0.0% 0.1% (n=1) 0.0% 0.6% (n=2) 0.0% 0.0% 10.4% (n=33) 0.2% (n=3) 0.0% 0.0% 0.0% 0.6% (n=2) 0.0% 0.0% 0.7% (n=9) 0.3% (n=1) 2.8% (n=9) 5.1% (n=70) 0.0% 0.0% 20 0.0% 0.0% 0.0% 0.3% (n=1) 100.0% (n=1) 1.8% (n=24) 0.0% 15.7% (n=50) 0.2% (n=3) 0.0% 0.0% 6.6% (n=21)

5.5% (n=76) 3.1% (n=10) 0.0% 0.0% 0.0% 0.0% 7.4% (n=102) 1.9% (n=6) 0 Calanoida (civ-vi) Cyclopoida (unid) Foraminifera Zooplankton (unid) Actual discarded Taxa

Extra training classes



