Use of SCN features: Yes

Max learning objects: 20000 objects/class Strategy N° 4

Actual Values

NL 2021 Selected Samples prediction using NL 2021 training set, Learning with selected samples classes with no low regional training instances, with 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

	Confusion Matrix – In percent of Actual Value																		ecis per cias	55											
																	-	precision	recall	f1-score											
Acartia spp.	72%	<1%	7%	9%	3%			7%				<1%			<1%	<1%		<1%		<1	%	1%		<1%		Acartia sp (n=2490-train=544	p. ∤8)	0.75	0.72	0.73	
Evadne spp.		93%	<1%	<1%	<1%	<1%	2%	<1%					<1%	<1%	<1%			<1%		1%	š <	(1%				Evadne sp (n=1931-train=284	p. (5)	0.90	0.93	0.91	
Temora spp.	15%	2%	54%	8%	3%		<1%	15%				<1%				<1%				2%	ó 2	2%		<1%		Temora sp (n=1416-train=514	p. 8)	0.67	0.54	0.60	
Pseudocalanus spp.	25%		14%	53%	<1%			7%				<1%				<1%			<1%		<	(1%			_	Pseudocalanus sp (n=1044-train=455		0.59	0.53	0.56	
Oithona spp.	12%	1%	<1%		80%	<1%		3%			<1%				2%					<1	% <	(1%				Oithona sp (n=345-train=140	p. 19)	0.65	0.80	0.72	1.0
Bryozoa (larvae)		47%			<1%	40%	<1%	2%			<1%		1%	<1%	<1%			<1%		1%	5 4	4%		<1%		Bryozoa (larva (n=248-train=11	e) 9)	0.96	0.40	0.56	
Podon/Pleopsis spp.	1%	12%	13%	2%			16%	2%			<1%				<1%	<1%		12%		129	% 2	9%				Podon/Pleopsis sp (n=230-train=20	p. 01)	0.39	0.16	0.23	
Calanoida (ci-ciii)		12%	7%	6%	4%		4%	25%								<1%			<1%	2%	<u> </u>	16%		<1%		Calanoida (ci-ci (n=130-train=371	ii) 3)	0.06	0.25	0.10	0.8
Oikopleura spp.					3%	/1%			60%		<1%				25%		<1%		2%					1%		Oikopleura sp (n=115-train=76	р. 51)	0.84	0.60	0.70	
					370	170		170	00/0						2J/0		170									Centropages sp (n=88-train=4	p. (0)	1.00	0.17	0.29	
Centropages spp.			7%	2%					_	17%	1%								2%				<u> </u>	%		Echinodermata (larva (n=50-train=27		0.54	0.14	0.22	
Echinodermata (larvae)			2%		24%				2%		14%				46%			2%		2%	5	4%				Harpacticoida- epibenth (n=47-train=13	ic 36)	0.80	0.26	0.39	0.6
Harpacticoida- epibenthic	30%	2%	6%	13%	9%			13%				26%									2	2%			_	Gastropoda (larvae/Limacin (n=47-train=11	a) (0)	0.52	0.62	0.56	
Gastropoda (larvae/Limacina)		9%					9%						62%	11%				9%			2	2%				Bivalvia (larva (n=44-train=7	e) ′1)	0.83	0.80	0.81	
Bivalvia (larvae)		2%				2%	5%						11%	80%												Fritillaria sp (n=34-train=344	p . 17)	0.26	0.79	0.39	
Fritillaria spp.					15%				3%		3%				79%											Microcalanus sp (n=31-train=8	p. 30)	0.25	0.10	0.14	0.4
Microcalanus spp.		6%	3%	16%				35%								10%		6%		3%	5 1	9%				Chaetognatl (n=28-train=6	na 57)	0.92	0.43	0.59	
Chaetognatha									39%						14%		43%		4%							Polychaeta (larva (n=20-train=45	e) 52)	0.19	0.45	0.26	
Polychaeta (larvae)	5%	15%		5%	10%													45%		109	% 1	0%				Calanus sp (n=14-train=21	p. (3)	0.58	0.79	0.67	
Calanus spp.	7%			14%															79%							Eurytemora sp (n=10-train=8	p. 38)	0.00	0.00	0.00	0.2
Eurytemora spp.	50%		20%	30%																						Cirripedia (larva (n=0-train=61	e) 1)	-	-	-	
	Acartic	. Evada	remore Spp.	PSCUO SPD.	Oithon	Bryon	Podon	Calan	Oitop	Centro	Chino	Harpa	Castro	Birdhi	. Pritille	Micro	Charle	Polycy	Calanus Calanus	Curyto Ci		Coper	Obelia	Supha Suph	, N.	Copepoda (naupl (n=0-train=102	ii) 25)	_	-	-	
		<i>Sp.</i>	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	500	ocalanus su	Bryozo	Podon, Od (larvae)	Pleopsiss	Oikopi Oida (ci.ciii)	Centropo	iges spp.	dermata (la	ticoida en	Poda (larva	Pritito, Claracy		Chaeto Alanus Spp.	Polych Polych	acta (larva)	Spp. Spp.	Op.	Copepodo (Janae)	Obelia SPP.	Suphausiacea (hedusa)	Ausiacea (nauplii)	Obelia spp. (medus (n=0-train=4	a) 1 3)	-	-	-	0.0
Acartic Statue S														Nacy Uplin	Euphausiacea (larva (n=0-train=7	e) '5)	-	_	-	0.0											
													cted V		V										- - - - - - - - - - - - - - - - - - -	Euphausiacea (naupl (n=0-train=12	ii) 22)	_	_	-	
																									lasses	macro avg (cor	r)	0.58	0.47	0.47	
																										weighted av	/g	0.73	0.67	0.68	

Predictions of discarded taxa from training 100.0% (n=1) 16.7% (n=1)0.3% (n=1) 24.7% (n=339) 0.0% 0.0% 0.0% 0.0% 0.0% Acartia spp. 0.0% 0.0% 50.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 9.4% (n=30) Bivalvia (larvae) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 2.5% (n=8) Bryozoa (larvae) 50.0% (n=1) Calanoida (ci-ciii) 0.0% 25.9% (n=355) 50.0% (n=1) 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% 0.0% 5.7% (n=18) 4.3% (n=2) 25.0% (n=1) 50.0% (n=1) 80 Calanus spp. 11.1% (n=1) 0.1% (n=1) 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.6% (n=2) Cirripedia (larvae) 14.9% (n=7) 0.0% 50.0% (n=2) 0.0% 1.8% (n=24) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.6% (n=5) 0.0% 0.0% 0.0% 0.0% 7.9% (n=25) Copepoda (nauplii) 6.2% (n=85) 0.0% 0.0% 0.0% 6.4% (n=3) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.3% (n=4) Echinodermata (larvae) 0.0% 0.0% 4.3% (n=2) Euphausiacea (larvae) 11.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Taxa 60 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Euphausiacea (nauplii) 0.0% 0.4% (n=6) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 4.2% (n=58) 0.0% 0.0% 27.7% (n=13) 0.0% 0.0% 50.0% (n=1) 36.2% (n=115) Predicted Evadne spp. 50.0% (n=1) 0.0% 2.8% (n=9) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 25.0% (n=1) Fritillaria spp. 1.5% (n=21) 19.1% (n=9) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 9.7% (n=31) Gastropoda (larvae/Limacina) 100.0% (n=1) 40 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 33.3% (n=2) 0.0% 0.0% 0.0% 0.0% Harpacticoida- epibenthic 0.0% Microcalanus spp. 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% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Obelia spp. (medusa) 66.7% (n=6) 0.0% 0.0% 14.9% (n=7) 0.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Oikopleura spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 2.5% (n=8) Oithona spp. 12.0% (n=165) 0.0% 0.0% 16.7% (n=1) 20 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 8.8% (n=28) Podon/Pleopsis spp. 0.3% (n=4) 0.0% 0.0% 0.0% Polychaeta (larvae) 11.1% (n=1) 0.3% (n=4) 0.0% 0.0% 0.0% 6.4% (n=3) 0.0% 0.0% 0.0% 0.0% 0.0% 6.6% (n=21) 12.8% (n=175) 0.0% Pseudocalanus spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% 3.5% (n=11) 0.0% 9.5% (n=130) 0.0% 0.0% 0.0% 0.0% 0.0% 2.1% (n=1) 0.0% 0.0% 0.0% 0.6% (n=2) Temora spp. Decapoda-non brachyura (larvae) Calanoida "Civ-vi) Sarsia spp. " (medusa) Aglantha n = 1370 n = 9 med_{usa} Oncaeidae spp. Zooplankton (unid) Cyclopoida (unid) Hydrozoa (medusa) Monstrillidae Tortanus spp. Ostracoda Extra training classes

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



