Use of SCN features: Yes

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

	Comusion Matrix - in percent of Actual Value															precision	recall	f1-score						
Acartia spp.	73%	<1%	7%	9%	3%			7%				<1%			<1%			<1%		Acartia spp. (n=2490-train=5448)	0.75	0.73	0.74	
Evadne spp.		95%	<1%	<1%	<1%	<1%	2%	1%			<1%		<1%	<1%	<1%			<1%		Evadne spp. (n=1931-train=2845)	0.88	0.95	0.91	
Temora spp.	15%	2%	56%	8%	3%		<1%	16%								<1%				Temora spp. (n=1416-train=5148)	0.66	0.56	0.61	
Pseudocalanus spp.	25%		14%	53%	<1%			7%				<1%				<1%			<1%	Pseudocalanus spp. (n=1044-train=4552)	0.60	0.53	0.56	1.0
Oithona spp.	12%	1%	1%		79%	<1%		3%			<1%				2%					Oithona spp. (n=345-train=1409)	0.66	0.79	0.72	
Bryozoa (larvae)		56%			<1%	38%	<1%	3%					1%		1%			<1%		(n=343-train=1409) Bryozoa (larvae) (n=248-train=119)	0.97	0.38	0.54	
Podon/Pleopsis spp.		18%	19%	2%			18%	19%			<1%				<1%	<1%		21%		(n=248-train=119) Podon/Pleopsis spp.				0.0
Calanoida (ci-ciii)		14%	8%	7%	4%		5%	50%											<1%	(n=230-train=201)	0.43	0.18	0.25	
Oikopleura spp.			3%	3%	3%				60%		<1%				28%		<1%		2%	Calanoida (ci-ciii) (n=130-train=3713)	0.10	0.50	0.16	
Centropages spp.	69%		8%	1%					1%	19%	1%									Oikopleura spp. (n=115-train=761)	0.85	0.60	0.70	
Echinodermata (larvae)					18%		2%	8%	2%		20%				46%					Centropages spp. (n=88-train=40)	1.00	0.19	0.32	0.0
Harpacticoida- epibenthic	38%		11%	9%	9%			13%				21%								Echinodermata (larvae) (n=50-train=276)	0.62	0.20	0.30	
Gastropoda (larvae/Limacina)		11%					11%						60%	11%				9%		Harpacticoida- epibenthic (n=47-train=136)	0.83	0.21	0.34	
Bivalvia (larvae)		2%				2%	2%						16%	77%						Gastropoda (larvae/Limacina)	0.51	0.60	0.55	
Fritillaria spp.					12%			3%	3%		3%				79%					(n=47-train=110) Bivalvia (larvae)				0.4
Microcalanus spp.		10%	3%	13%				58%								10%		6%		(n=44-train=71)	0.81	0.77	0.79	
Chaetognatha									32%						14%		50%		4%	Fritillaria spp. (n=34-train=3447)	0.25	0.79	0.38	
Polychaeta (larvae)		15%	5%	5%	10%			15%										50%		Microcalanus spp. (n=31-train=80)	0.33	0.10	0.15	0.2
Calanus spp.				21%															71%	Chaetognatha (n=28-train=67)	0.93	0.50	0.65	
Eurytemora spp.		Ĉ.	20%	30%	0;.	O _{r.}	A COL	C ₂ ,	0;,	Co.	\$c.	%	C ²	S _{ii.}	Ŝ.	4.	S	, A	G, &.	Polychaeta (larvae) (n=20-train=452)	0.14	0.50	0.22	
	Acarria	Spp.	Pp.	Spp.	Oithona Alanus Spp.	Spp.	Podon, (lande)	Pleopsis Spp.	Oikople Coiciii)	Centrope Spp.	Sp. Sp.	Harpacia Carvae	Castrope icoida Chiben	Bivalvia Pola (lande/line	Prillan	id Spp.	Chaetog Nanus Spp.	Tycha Thatha	Calanus Spp. Curytemore	Calanus spp. (n=14-train=213)	0.62	0.71	0.67	0.0
					<i>γ</i> ,			· <i>D</i> ,				Var	en iden	thic Kin	Pacina)					Eurytemora spp. (n=10-train=88)	0.00	0.00	0.00	
										Predicte	d Values	3								macro avg	0.60	0.49	0.48	
																				weighted avg	0.73	0.68	0.69	

Predictions of discarded taxa from training 24.7% (n=338) 100.0% (n=1) 16.7% (n=1)Acartia spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 50.0% (n=1) 0.6% (n=2) Bivalvia (larvae) 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% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 2.1% (n=1) 0.0% 50.0% (n=1) 0.0% 1.9% (n=6) Bryozoa (larvae) 80 31.3% (n=429) 50.0% (n=1) 0.0% Calanoida (ci-ciii) 0.0% 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% 8.5% (n=27) 0.1% (n=1) 10.6% (n=5) 25.0% (n=1) 50.0% (n=1) 0.6% (n=2) Calanus spp. 33.3% (n=3) 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% 0.0% Echinodermata (larvae) 0.0% 0.1% (n=1) 0.0% 0.0% 0.0% 6.4% (n=3) 0.0% 0.0% 0.0% 0.0% 0.0% 1.3% (n=4) Evadne spp. 0.0% 5.5% (n=75) 50.0% (n=1) 0.0% 0.0% 25.5% (n=12) 0.0% 0.0% 50.0% (n=1) 0.0% 0.0% 41.5% (n=132) 60 Fritillaria spp. 0.0% 0.0% 1.7% (n=23) 0.0% 0.0% 0.0% 21.3% (n=10) 0.0% 0.0% 0.0% 25.0% (n=1) 3.1% (n=10) 0.0% 0.0% 0.0% 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 8.5% (n=27) Gastropoda (larvae/Limacina) Harpacticoida- epibenthic 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 33.3% (n=2) 0.0% 0.0% 0.0% 0.0% 40 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Oikopleura spp. 11.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% Oithona spp. 11.5% (n=158) 0.0% 0.0% 0.0% 0.0% 2.2% (n=7) Podon/Pleopsis spp. 0.0% 0.5% (n=7) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 10.4% (n=33) 6.4% (n=3) 20 0.0% Polychaeta (larvae) 55.6% (n=5) 0.4% (n=5) 0.0% 0.0% 0.0% 23.4% (n=11) 0.0% 0.0% 0.0% 50.0% (n=2) 8.8% (n=28) Pseudocalanus spp. 0.0% 13.1% (n=179) 0.0% 0.0% 0.0% 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% 0.0% 3.1% (n=10) 11.2% (n=154) 0.0% 0.0% 0.0% 0.6% (n=2) Temora spp. 0.0% 0.0% 0.0% 0.0% 4.3% (n=2) 0.0% 0.0% Decapoda-non brachyura (larvae) Sarsia spp. " (medusa) Aglantha n=1370 1000, n=9 (medusa) Zooplankton (unid) Calanoida "=< 1370 (civ-vi) Cyclopoida "=" Hydrozoa (medusa) Oncaeidae spp. Monstrillidae Tortanus spp. Ostracoda

Predicted Taxa

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



