Use of SCN features: No

Max learning objects: Maximum objects/class Strategy N° 7

Actual Values

NL 2020 Selected Samples prediction using all regions training set, Learning with selected samples classes with no low global training instances, no extra training categories, No Anthoathecata, Calanoida, Copepoda, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classificati	on Report Matrix
max available lea	arning objects per class

precision recall f1-score

	Confusion Matrix – In percent of Actual Value																Mid)	precision	-	f1-score	155				
Temora spp.	50%	37%	3%	6%	<1%	1%	<1%	<1%	<1%			<1%	<1%					<1%	<1%	<1%	Temora spp. (n=18103-train=7347)		recall 0.50	0.62	
											4.0					40							0.50	0.02	
Acartia spp.		86%	1%	<1%	<1%	<1%	<1%		<1%		<1%		<1%			<1%			<1%	<1%	Acartia spp. (n=13302-train=111319)	0.58	0.86	0.69	
Evadne spp.		<1%	88%	<1%		6%	<1%	1%	<1%	<1%		2%	<1%				<1%		<1%	<1%	Evadne spp. (n=5228-train=11064)	0.86	0.88	0.87	
Pseudocalanus spp.		44%	<1%	30%	1%	<1%	1%							<1%		<1%		<1%	<1%	<1%	Pseudocalanus spp. (n=3053-train=4845)	0.43	0.30	0.35	1.0
Centropages spp.		15%		2%	71%													<1%	<1%		Centropages spp. (n=330-train=3620)	0.63	0.71	0.67	
Podon/Pleopsis spp.		4%	7%	4%		24%	<1%											6%	1%	26%	(n=330-train=3020) Podon/Pleopsis spp.				
Eurytemora spp.	6%	61%	5%	2%	<1%	1%	24%		1%												(n=253-train=7347)		0.24	0.13	
Gastropoda (larvae/Limacina)			<1%			26%		59%		7%		3%								4%	Eurytemora spp. (n=178-train=1818)	0.16	0.24	0.20	0.8
Oithona spp.		14%	1%						83%							1%	1%				Gastropoda (larvae/Limacina) (n=112-train=3272)	0.48	0.59	0.53	
Bivalvia (larvae)								4%		92%		3%									Oithona spp. (n=98-train=5881)	0.34	0.83	0.48	
Oikopleura spp.		1%									80%			1%	4%	7%		6%			Bivalvia (larvae) (n=92-train=3764)	0.90	0.92	0.91	0.6
Hydrozoa (medusa)		2%	5%			2%						39%		2%		2%			41%	6%	Oikopleura spp. (n=70-train=5305)		0.80	0.83	
Harpacticoida- epibenthic	4%	82%		10%	2%															2%	(n=70-train=5305) Hydrozoa (medusa)				
Calanus spp.				12%										80%				8%			(n=64-train=4052)	0.19	0.39	0.25	
Chaetognatha				7%											93%						Harpacticoida- epibenthic (n=50-train=555)	0.00	0.00	0.00	0.4
Fritillaria spp.		29%									14%					43%	14%				Calanus spp. (n=25-train=359)	0.83	0.80	0.82	
Echinodermata (larvae)		20%	20%			20%										20%	20%				Chaetognatha (n=15-train=89)	0.82	0.93	0.87	
Decapoda-non brachyura (larvae)														50%				50%			Fritillaria spp. (n=7-train=6992)	0.10	0.43	0.16	0.2
Obelia spp. (medusa)																			100%		(n=/-train=6992) Echinodermata (larvae)				0.2
Polychaeta (larvae)				100%																	(n=5-train=3043)	0.08	0.20	0.12	
	Tenora	Acarria Spp.	Spp. Spp.	Solldo	Centropo Celenus Spp.	Podon/	Euryte, Pla	Tord Spp.	Oithona	Bivalvie	Oikople?	Hydrox O	Parpacific (medisa)	icoida.	Chaetog	Pritillan	Chinode	Decapol	Obelia	Polychal	Decapoda-non brachyura (larvae) (n=2-train=423) Obelia spp. (medusa) (n=1-train=1003)	0.04	0.50	0.07	
		<i>~</i> ⊘.	~ø,	%	Canus Spp.	Ses Sop.	Pleopsis Spp.	10 Spp.	Oithona Oda (larvae/l.)	<i>Pp.</i>	(ande)	50h	(medusa)	Calanus Coida Chiben		atha .	SPA	Decapolismoto (larvae)	non brachy	Polychole (medusa)	Obelia spp. (medusa) (n=1-train=1003)	0.02	1.00	0.03	0.0
									·,	nacina)				·/.	thi _c			9	<i>,</i>	Polychal (nedusa)	Polychaeta (larvae) (n=1-train=1577)	0.00	0.00	0.00	
										Predicte	d Values	6									macro avg		0.56	0.43	
																					weighted avg	0.70	0.65	0.65	

Predictions of discarded taxa from training 100 0.0% 0.0% 0.0% 43.8% (n=14) 0.0% 0.0% 5**0.5%** (n=2303 0.0% 0.0% 7.9% (n=89) Acartia spp. 0.0% 0.0% 0.0% Bivalvia (larvae) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 2.8% (n=32) 0.0% 0.0% 0.0% 0.0% 14.3% (n=2) 0.0% 0.0% (n=1) 0.0% 0.0% Calanus spp. 50.0% (n=1) 0.0% Centropages spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.5% (n=22) 0.0% 0.0% 0.2% (n=2) 80 0.1% (n=1) 0.0% 100.0% (n=1) 16.7% (n=1) 0.0% 35.7% (n=5) 0.0% 0.0% 0.0% Decapoda-non brachyura (larvae) 0.0% (n=2) Echinodermata (larvae) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=6) 0.0% 0.0% 0.8% (n=9) 0.4% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Eurytemora spp. 3.1% (n=1) 1.3% (n=59) 0.0% Evadne spp. 0.0% 0.0% 0.0% 0.0% 0.0% 13.9% (n=632) 0.0% 0.0% 29.7% (n=333) Taxa 60 Fritillaria spp. 0.0% 0.0% 16.7% (n=1) 0.0% 0.0% 0.0% 0.2% (n=8) 0.0% 0.0% 0.3% (n=3) Predicted Gastropoda (larvae/Limacina) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.2% (n=11) 0.0% 0.0% 7.0% (n=79) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.4% (n=4) Harpacticoida- epibenthic 0.0% 40 Hydrozoa (medusa) 60.0% (n=6) 0.0% 33.3% (n=2) 0.0% 0.0% 0.0% 0.1% (n=6) 0.0% 0.0% 8.6% (n=97) 0.9% (n=10) 0.0% 0.0% 0.0% 0.0% 0.2% (n=8) 0.0% Obelia spp. (medusa) 40.0% (n=4) 33.3% (n=2) 0.0% 0.7% (n=8) 0.0% 100.0% (n=1) Oikopleura spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.8% (n=20) Oithona spp. 3.2% (n=146) 20 Podon/Pleopsis spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 30.8% (n=346) 6.5% (n=295) 0.0% 0.0% 0.0% 0.0% 0.0% 50.0% (n=1) 2.3% (n=103) 0.0% 0.0% 5.6% (n=63) Polychaeta (larvae) 0.0% Pseudocalanus spp. 0.0% 0.0% 46.9% (n=15) 42.9% (n=6) 0.0% 4.5% (n=204) 50.0% (n=1) 0.0% 0.4% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% Temora spp. 6.2% (n=2) 7.1% (n=1) 50.0% (n=1) 16.5% (n=754) 1.7% (n=19) 0 Anthoathecata (medusa) Calanoida (unid) Cnidaria (larvae) Metridia spp. Zooplankton (unid) Chiridius spp. Tomopteris spp. Copepode nerid n=1123 n=2 n=1

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample Val Pred 1.0 -0.8 Relative Abundance 0.4 0.2 -0.0 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30

Sample Short ID

