Use of SCN features: Yes

Max learning objects: Maximum 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 available learning objects per class												

recall f1-score

precision

								Comusi	on Man	ıx – III	percent	or Actua	at value								precision	recall	f1-score
Acartia spp.	73%	<1%	7%	9%	3%			8%				<1%			<1%			<1%		<b>Acartia spp.</b> (n=2490-train=5448)		0.73	0.74
Evadne spp.		95%	<1%	<1%	<1%		2%	1%					<1%	<1%	<1%			<1%		<b>Evadne spp.</b> (n=1931-train=2845)	0.88	0.95	0.91
Temora spp.	14%	2%	55%	8%	3%		<1%	17%				<1%				<1%				<b>Temora spp.</b> (n=1416-train=5148)	0.66	0.55	0.60
Pseudocalanus spp.	24%		14%	53%	<1%			8%				<1%			<1%	<1%			<1% <1%	Pseudocalanus spp. (n=1044-train=4552)	0.50	0.53	0.56
Oithona spp.	12%	1%	1%		79%	<1%		3%			<1%				2%					Oithona spp. (n=345-train=1409)		0.79	0.72
Bryozoa (larvae)		56%				37%	<1%	3%			<1%		2%		1%			<1%					
Podon/Pleopsis spp.	1%	17%	20%	3%			18%	17%							<1%	<1%		23%		Bryozoa (larvae) (n=248-train=119)		0.37	0.53
Calanoida (ci-ciii)	12%	14%	8%	7%	4%		4%	50%								<1%			<1%	Podon/Pleopsis spp. (n=230-train=201)	0.11	0.18	0.26
Oikopleura spp.			2%	4%	3%	<1%			60%		<1%				27%		<1%		2%	Calanoida (ci-ciii) (n=130-train=3713)	0.09	0.50	0.16
Centropages spp.	69%		7%	5%						17%	1%								1%	<b>Oikopleura spp.</b> (n=115-train=761)	0.85	0.60	0.70
Echinodermata (larvae)					20%			8%	2%		20%				46%					Centropages spp. (n=88-train=40)	1.00	0.17	0.29
Harpacticoida- epibenthic	32%		6%	13%	9%			15%				26%								Echinodermata (larvae) (n=50-train=276)	0.67	0.20	0.31
stropoda (larvae/Limacina)		9%					13%						60%	11%				9%		Harpacticoida- epibenthic (n=47-train=136)	0.75	0.26	0.38
Bivalvia (larvae)					150	5%	2%		20,		20,		18%	75%	700					Gastropoda (larvae/Limacina)	0.47	0.60	0.53
Fritillaria spp.  Microcalanus spp.		13%	3%	13%	15%			61%	3%		3%				79%	6%		3%		(n=47-train=110) Bivalvia (larvae)	0.02	0.75	0.79
Chaetognatha		13/0	3/0	13/0				01%	36%						14%	0%	50%	3/0		(n=44-train=71) Fritillaria spp.			
Polychaeta (larvae)		15%	5%	5%	5%			20%	30%						14/0		J0/0	50%		(n=34-train=3447)	0.23	0.79	0.39
Calanus spp.	7%	1 3/0	3.0	21%	J. 0			20.0										30/0	71%	Microcalanus spp. (n=31-train=80)		0.06	0.11
Eurytemora spp.			20%	30%																<b>Chaetognatha</b> (n=28-train=67)	0.93	0.50	0.65
у		Evad.			Oithe	Bryos	Podo.	Colar	Oikon	Centr	Chin	Harp	Castr	Bival.	Piti,	Micro	Char	Polyce	Calan Curux	Polychaeta (larvae) (n=20-train=452)	0.14	0.50	0.22
	Acartia	Eladhe SPD	Pemora Spp.	500.	Oithona danus Spp.	Spp.	(larvae)	Calanoii, Okopsis Spp.	Oikopled (ci.ciii)	Centrope Spp.	Iges Spp.	Harpaciti Armata (larvae)	Castropolicoida epibenti	Bivalvia Polar Carde Line	Pritilland	is spp.	Chaetog,	natha Chal	Calanus Spp. Curytemon	Calanus spp. (n=14-train=213)	0.62	0.71	0.67
					.%			<i>%</i> .				"nae	, "Ibenti	thic selim	decinal		·		9	Eurytemora spp. (n=10-train=88)	0.00	0.00	0.00
										Predicte	d Values									macro avg		0.49	0.48
																				weighted avg		0.68	0.69
																				metgined dvg	3.75	3.30	5.05

## Predictions of discarded taxa from training Acartia spp. 0.0% 24.6% (n=337) 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) 8.5% (n=27) Bivalvia (larvae) 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% 2.1% (n=1) 0.0% 50.0% (n=1) 0.0% 2.5% (n=8) Bryozoa (larvae) 0.0% 0.0% 7.9% (n=25) 80 Calanoida (ci-ciii) 0.0% 31.4% (n=430) 50.0% (n=1) 0.0% 0.0% 2.1% (n=1) 0.0% 16.7% (n=1) 0.0% 0.0% Calanus spp. 33.3% (n=3) 0.1% (n=1) 0.0% 0.0% 0.0% 0.0% 25.0% (n=1) 50.0% (n=1) 0.6% (n=2) |100.0% (n=1) 10.6% (n=5) 0.0% 0.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.6% (n=2) Echinodermata (larvae) 0.0% 0.0% 0.0% 6.4% (n=3) 0.0% 0.0% 0.0% 0.0% 0.0% Evadne spp. 0.0% 5.3% (n=72) 50.0% (n=1) 27.7% (n=13) 0.0% 50.0% (n=1) 41.2% (n=131) Taxa 60 0.0% 0.0% 0.0% 0.0% 21.3% (n=10) 0.0% 0.0% 0.0% 25.0% (n=1) 0.0% 3.8% (n=12) Fritillaria spp. 1.7% (n=23) Gastropoda (larvae/Limacina) 0.0% 0.0% 0.0% 0.0% 100.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 8.2% (n=26) 0.1% (n=1) 0.0% 0.0% 33.3% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Harpacticoida- epibenthic 40 Microcalanus spp. 0.0% 0.1% (n=1) 0.0% Oikopleura spp. 11.1% (n=1) Oithona spp. 0.0% 11.3% (n=155) 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% 0.5% (n=7) 0.0% 0.0% 0.0% 4.3% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 10.4% (n=33) 20 Polychaeta (larvae) 55.6% (n=5) 0.0% 0.4% (n=6) 0.0% 0.0% 0.0% 23.4% (n=11) 0.0% 0.0% 0.0% 50.0% (n=2) 8.8% (n=28) 0.0% 13.6% (n=187) 0.0% 16.7% (n=1) 0.0% 3.1% (n=10) Pseudocalanus spp. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Temora spp. 0.0% 10.9% (n=149) 0.0% 0.0% 0.0% 2.1% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 1.3% (n=4) Decapoda-non brachyura (larvae) Sarsia spp. " (medusa) Aglantha n=1370 (uv., Oncaeidae 'spp. Zooplankton (unid) Calanoida "=> n=1370 (civ-vi) Cyclopoida " (unid) Hydrozoa (medusa) Monstrillidae Tortanus spp. Ostracoda

Predicted

Actual discarded Taxa



