Use of SCN features: Yes

Max learning objects: 20000 objects/class Strategy N° 5

Actual Values

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

Confusion Matrix – In percent of Actual Value

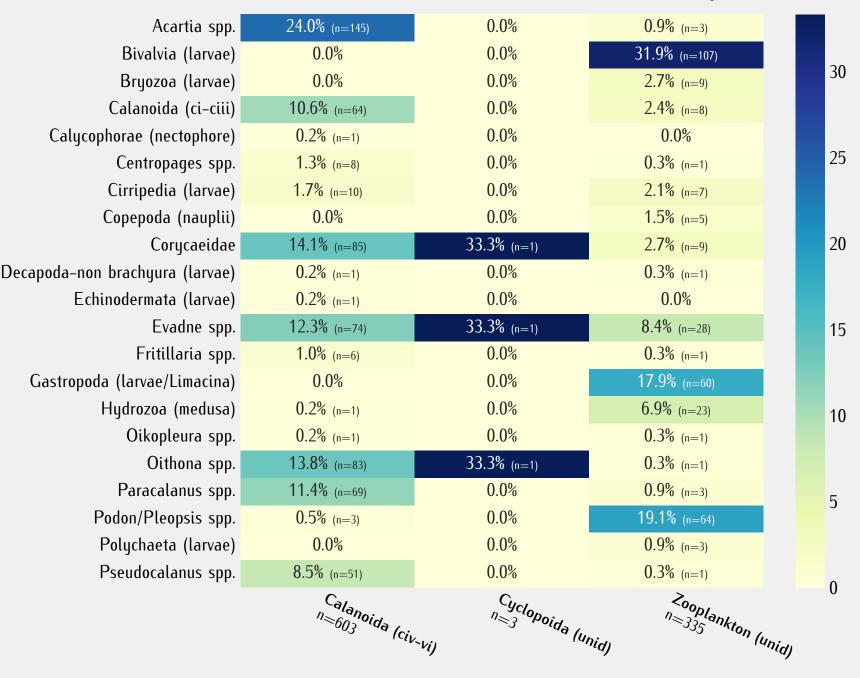
2% 66% 2% <1%	<1% 2% 44% <1% 5% 1% 11%	<1% 19% <1% 62% <1%	1% 3% 31% 2% 73% 2%	<1% 1% <1% 1% 61%	4% <1% 1% <1%	<1%	<1% 2%	<1% <1% 5% 82%	<1% <1%	<1% <1% <1% 1%	<1% <1%	<1% 2% <1% 3%	<1% 2% <1%	<1%		<1% <1% <5% 4%	<	1%	17% % <19 <19	30% 8%		<1% 1% <1% <1% <1% <1% <1% 2% <1% 2%	<1% <1% <1% <1% <1%
2% 66% 2% <1% 2% 21% <1% 19% <1% 10% 2% 5% 2% 24%	2% 44% <1% 5% 11% 17% 5% 111%	19% <1% 62% <1% <1% <1% <4%	3% 31% 2% 73% 2% 20% 3% 13% 1% 15% 4%	<1% 1% <1% 1% 61% 13%	<1% 1% <1% 1% 2% 15% 3% 2%	<1% 5% <1% 2% 3% 50%	2% 3% 54% 5%	<1% 5%	<1% <1% 1% 28% 9%	<1% <1% 1% 6% 3%	<1% <1% 2% <1%	<1% 2% <1% 3%	2% <1% <1% <2% <2%	<1%		5%		1% <	% <19 <19 % 7% <19 2% 13%	30% 8%		<1% <1% <1% <2% <1% <2%	<1% 1%
2% <1% 2% 21% <1% <19% <1% <1% <10% <1% <2% <2% <24%	44% <1% 5% 1% 11% 17% 5% 11%	<1% 62% <1% <1% <1% <4%	31% 2% 73% 2% 20% 3% 13% 1% 15% 4%	1% <1% 1% 61% 13%	1% <1% 1% 2% 15% 3% 2%	5% <1% 2% 3% 50%	2% 3% 54% 5%	<1% 5%	<1% <1% 1% 28% 9%	<1% 1% 6% 3%	<1% 2% <1%	2% <1% ·	<1% <1% < 1% < 1% < 1% < 2%			5%			<19 % 7% <19 2% 13%	30% 8%		<1% <1% <1% <2% <1% <2%	<1% 1%
2% 21% <1% <1% <1% <1% <1% <1% <1% <1% <1% <	<1% 5% 1% 11% 17% 5% 11%	62% <1% <1% <1% 4%	2% 73% 2% 20% 3% 13% 15% 4%	<1% 1% 61% 13%	<1% 1% 2% 15% 3% 2%	<1% 2% 3% 3% 50%	3% 54% 5%	<1% 5%	<1% 1% 28% 9%	1% 6% 3%	2%	2% <1% ·	<1% <1%			5%			% 7% <19 2% 13%	30%		<1% <1% <2% <1% <2%	1%
<1% 19% <1% 5% <1% 10% 2% 5% 2% 24%	5% 1% 11% 17% 5% 11%	<1% <1% <1% <4%	73% 2% 20% 3% 13% 1% 15% 4%	1% 61% 13%	1% 2% 15% 3% 2%	2% 3% 3% 50%	54% 5%	5%	1% 28% 9%	6% 3%	<1%	3%	<1% 2%			5%			<19 2% 13%	30%		<1% 2% <1% 2%	1%
19% <1% 5% <1% 10% 2% 5% 2% 24%	1% 11% 1% 17% 5% 11%	<1% <1%	2% 20% 3% 13% 1% 4%	61% 13%	2% 15% 3% 2%	3% 3% 50%	54% 5%	5%	1% 28% 9%	3%	<1%	3%	<1% 2%			5%			13%	30%		2% <1% 2%	
5% <1% 10% 2% 5% 2% 24%	11% 1% 17% 5% 11%	<1% <1%	20% 3% 13% 1% 15% 4%	13%	15% 3% 2%	3%	5%		28%	69%	<1%	3%	2%			5%			13%	30%		<1% 2%	<1%
10% 2% 5% 2% 24%	1% 17% 5% 11%	<1% 4%	3% 13% 1% 15% 4%	1%	3% 2% 2%	50%	5%		28%	69%					<1%					30%		<1% 2%	
2% 5% 2% 24%	17% 5% 11%	4%	13% 1% 15% 4%		2%		5%		9%	69%					<1%				4%	8%		2%	
5% 2% 24%	5%		1% 15% 4%		2%	2%	5%		9%	69%	36%				<1%				4%	8%		2%	
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24%	6%		10%		3%	2%					36%		7%			4%						2%	
	6%				3%				2%	81%	36%									2%		2%	
6%	6%	2%			3%				2%	81%						2%		3%		18%	8%		
6%	6%		3%		3%				2 0	0170			2%			2%							
6%	6%		3%						3%	3%	5%		76%			8%				3%			
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			19%				6%		19%	32%			3%		3%	3%							3%
	4%		4%	4%					4%		4%			4%		69%					8%		
	16%		36%	4%				28%		4%							4%						
4%											38%		17%			4%	2	5%	4%				
22%		17%																61	%				
41% 6%		12%									6%								35%	ш			
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							25%															75%	
												1	100%										
Acartia Oikopo. (lando)	Podoli, Sp.	Pleapsis	Aria Sp.	Coryce Spp.	Calan, Calan	Parace Poida (ci.cli	Castro Stanus Sp.	Bivalla Par	Polych (larve)	Alydro (lane	Centrol (nedus	Schinode Dages Spp.	Calycop.	Decapolino (necessariae)	Ctenoph Ctophore)	Decapo	Ostracoda da non brace	Cortanus St.	Scidiacea (le	Rona Spp.	Yocalanus	TUS DP.	Cuphysa Sp. (
	Cartia Spp.	Cartia Spp. Podol	Cartia Spp. Oikopleura Spp. Spp. Spp. Spp. Spp. Spp. Spp. Spp	Cartia Oikopleura Spp. Pleopsis Spp. (lange) Spp. Spp.	Cartia Spp. Podon/Pleopsis Spp. Coryce (lanae)	Cartia Spp. Podon/Pleopsis Spp. Corycaeidae (lange) Spp. Spp.	Cartia Spp. Podon/Pleopsis Spp. Cotycaeidae (ci. Co. Canae)					25%	25%	25%	25%	25%	25%	25% 100% 100% 100% 100% 100% 100% 100% 10	25%	25% 100% 100% 100% 100% 100% 100% 100% 10	25% 100% 100% 100% 100% 100% 100% 100% 10	25% 100% 100% 100% 100% 100% 100% 100% 10	25% 100% 100% 100% 100% 100% 100% 100% 10

Predicted Values

Classification Report Matrix max 20000 learning objects per class

IIIC	ax 20000 le	arming obj	ecis per cia	33
	precision	recall	f1-score	
Cirripedia (larvae) (n=3231-train=7685)	0.94	0.71	0.81	
Acartia spp. (n=2290-train=20000)	0.87	0.58	0.69	
Oikopleura spp. (n=1773-train=5305)	0.91	0.66	0.76	
Podon/Pleopsis spp. (n=607-train=7347)	0.35	0.44	0.39	
Fritillaria spp. (n=475-train=6992)	0.44	0.62	0.51	
Evadne spp. (n=358-train=11064)	0.28	0.73	0.41	
Corycaeidae (n=335-train=1760)	0.42	0.61	0.50	
Calanoida (ci-ciii) (n=150-train=5557)	0.14	0.15	0.14	
Paracalanus spp. (n=141-train=1619)	0.27	0.50	0.35	
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.46	0.54	0.50	
Bivalvia (larvae) (n=96-train=3764)	0.84	0.82	0.83	
Polychaeta (larvae) (n=65-train=1577)	0.33	0.28	0.30	
Hydrozoa (medusa) (n=55-train=4052)	0.25	0.69	0.36	
Centropages spp. (n=50-train=3620)	0.27	0.36	0.31	
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00	
Calycophorae (nectophore) (n=37-train=966)	0.26	0.76	0.39	
Decapoda-brachyura (zoeae) (n=32-train=628)	0.40	0.66	0.49	
Ctenophora (larvae) (n=31-train=42)	0.50	0.03	0.06	
apoda-non brachyura (larvae) (n=26-train=423)	0.53	0.69	0.60	
Ostracoda (n=25-train=25)	1.00	0.04	0.08	
Tortanus spp. (n=24-train=203)	0.46	0.25	0.32	
Ascidiacea (larvae) (n=23-train=861)	0.78	0.61	0.68	
Oithona spp. (n=17-train=5881)	0.01	0.35	0.02	
Pseudocalanus spp. (n=7-train=4845)	0.05	1.00	0.10	
Calanus spp. (n=6-train=359)	0.14	0.17	0.15	
Copepoda (nauplii) (n=4-train=11555)	0.06	0.75	0.11	
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00	
Bryozoa (larvae) (n=1-train=1142)	0.00	0.00	0.00	
macro avg	0.39	0.46	0.35	
weighted avg	0.76	0.62	0.67	
	precision	recall	f1-score	

Predictions of discarded taxa from training



Predicted Taxa

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

