Use of SCN features: No Max learning objects: 5000 objects/class Strategy N° 7

Actual Values

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

Classification	Report Matrix
max 5000 learning	i objects ner class

precision recall f1-score

	Confusion Matrix – In percent of Actual Value															m	ıax 5000 lea	irning obje	ects per clas	S												
																													precision	recall	f1-score	
Cirripedia (larvae)		<1%			<1%			<1%		1%		<1%		<1%	1%				<1%				<1%		<1%	<1%	Cirripedia (n=3231-train	larvae) =5000)	0.94	0.73	0.82	
Acartia spp.	<1%	45%	<1%	<1%	<1%	<1%	13%	4%	10%				<1%	2%		<1%	<1%			<1%		17%	5%				Acar (n=2290-train	tia spp. n=5000)	0.91	0.45	0.60	
Oikopleura spp.	1%	1%	68%	2%	16%	2%	<1%	1%	<1%	<1%		<1%	<1%	<1%	<1%	2%			<1%	<1%	<1%	<1%	<1%		<1%	<1%	Oikopleu	ra spp.	0.90	0.68	0.78	
Podon/Pleopsis spp.	9%	<1%	<1%	45%		21%	3%	2%	8%	1%	<1%	3%	2%	<1%		<1%	<1%	<1%				<1%	<1%		<1%	2%	(n=1773-train	·		0.45	0.44	
Fritillaria spp.	<1%	1%	23%		60%	<1%	<1%	1%	<1%			<1%	2%		2%						<1%	7%			<1%	<1%	(n=607-train	1=5000)	0.37	0.45	0.41	
Evadne spp.	4%		<1%	5%		66%	1%	2%	3%	2%	<1%	<1%	10%		<1%	<1%		<1%				<1%			<1%	2%	Fritilla (n=475-traii	ria spp. n=5000)	0.48	0.60	0.53	1.0
Corycaeidae	<1%	10%	<1%	1%	<1%	<1%	70%	1%	5%					2%		<1%			<1%	<1%		2%	3%			<1%	Evad (n=358-train	ne spp. n=5000)	0.35	0.66	0.46	
Calanoida (ci-ciii)	11%	2%	<1%	12%		14%	14%	17%	7%			2%			4%							15%			2%		Coryo (n=335-train	caeidae n=1760)	0.40	0.70	0.51	
Paracalanus spp.	<1%	4%	<1%	1%		1%	<1%	3%	57%					<1%			<1%						29%				Calanoida	(ci-ciii)	0.12	0.17	0.14	
Gastropoda (larvae/Limacina)	3%	2%		14%		13%		<1%	2%	57%	5%							<1%				2%			<1%		(n=150-train	,				0.8
Bivalvia (larvae)				5%		1%	1%			5%	83%		3%													1%	Paracalan (n=141-train			0.57	0.28	
Polychaeta (larvae)	15%	2%		12%		12%	3%	2%	2%	2%		28%	5%			6%			3%		2%		5%		2%	2%	Gastropoda (larvae/Lii (n=126-traii		0.48	0.57	0.52	
Hydrozoa (medusa)			2%			5%		2%	2%	2%		13%	64%			5%		2%	2%				2%				Bivalvia (n=96-train	larvae) =3764)	0.89	0.83	0.86	
Centropages spp.		18%			4%			2%						40%					2%	8%			18%	8%			Polychaeta (n=65-train	larvae) 1=1577)	0.23	0.28	0.25	
Echinodermata (larvae)				2%	2%	7%						2%	76%			5%		2%	2%								Hydrozoa (n (n=55-traiı	iedusa)	0.18	0.64	0.28	0.6
Calycophorae (nectophore)								3%				3%	3%	5%		73%			11%				3%				Centropag	es spp.	0.20	0.40	0.26	
Decapoda-brachyura (zoeae)		3%		3%										12%		6%	41%		12%				9%	9%		3%	(n=50-train	n=3620)	0.20	0.40	0.20	
Ctenophora (larvae)	3%			6%		13%				10%		26%	26%			3%		10%								3%	Echinodermata (n=42-train	=3043)	0.00	0.00	0.00	
Decapoda-non brachyura (larvae)				4%			4%					4%	4%						73%					12%			Calycophorae (necto (n=37-tra	phore) In=966)	0.20	0.73	0.32	0.4
Tortanus spp.	4%	4%												25%		21%	4%			38%		4%					Decapoda-brachyura (n=32-tra	(zoeae) in=628)	0.28	0.41	0.33	
Ascidiacea (larvae)			13%		17%																70%						Ctenophora (n=31-tr	larvae) ain=42)	0.30	0.10	0.15	
Oithona spp.		29%	6%		18%		6%							12%								29%					Decapoda-non brachyura (n=26-tra	(larvae)	0.42	0.73	0.54	
Pseudocalanus spp.																							100%				Tortan (n=24-tra	,		0.38	0.38	
Calanus spp.														17%					50%				17%	17%								0.2
Copepoda (nauplii)				25%				25%																	50%		Ascidiacea (n=23-tra			0.70	0.68	
Bryozoa (larvae)																											(n=17-traiı	na spp. n=5000)	0.01	0.29	0.02	
	Ciripa	Acar Acar	tis Oikopi Spp.	leur odo,		Ario Spp.	To Coryce	Reidae Calano	Parace Oida (ci. cili	Castron	Doy Sivalve	is Colych	Acta (larvae	Centrol	Chino Poles Spp.	Oder Calycon	Oho.	Ctenop,	hor cap	Tortant	Ascidio Spp.	Oithol.	PSELIDE PD:	Calanus Calanus	Copepode	Bryozog (larvae)	Pseudocalan (n=7-train	us spp. =4845)	0.04	1.00	0.07	
		(lan). (e)	\$20.	Pleasis,	500.	· 20,	46	Cicin	Castrop Hanus Spp.	(lange	onde)	Acta (lanal	Medus		Calycop Odermata (le	in the	Ctenopi Oda brachyli Ctophore)	"Ita Man	non bro	10h,	Para	~10. Pe)	ocalanus Sp.	<i>~p</i> .	Bryozog (larvae)	Calan (n=6-tra	us spp. in=359)	0.09	0.17	0.12	0.0
												Macina	e)				*9)	"hore,	(TOROK	<i>y</i>	Sura (la	Pro					Copepoda (n=4-train	auplii) =5000)	0.05	0.50	0.10	
													B ryozoa (n=1-traiı	larvae) =1142)	0.00	0.00	0.00															
	Predicted Values														o avg		0.49	0.36														
																											weighte	d avg	0.77	0.61	0.66	

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



