Use of SCN features: Yes

Max learning objects: 20000 objects/class Strategy N° 2

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

	Classif	ication F	Report M	latri	X
max	20000	learning	, objects	per	class

precision recall f1-score

													Confus	ion	Mat	rix –	In p	ercer	nt of	Acti	ual V	/alue									max 2	20000 le	arning obj	ects per clas
																															, <u> </u>	recision	recall	f1-score
Cirripedia (larvae) Acartia spp.					15%							<1%	<1% <	1% <		<1% <		1%				<1%	<1% <1%			% <1	<1%	<1%	<1%	Cirripedia (larv (n=3231-train=63 Acartia s	358)	0.92	0.76	0.83
Oikopleura spp.					3%				<1% <				<1% <	10,									<1% <	~10 _/	<1		<1%		<1%	(n=2290-train=44	110)	0.88	0.80	0.84
												<1%		1% < 2%									< 1/0	< 1/0	<1	0	1%		<1%	(n=1773-train=45)	507)	0.82	0.82	0.82
Podon/Pleopsis spp.														1% <			4%	<1%	∠⁄0						1%		1/0		< 170	Podon/Pleopsis s (n=607-train=36	5pp. 505)	0.32	0.53	0.40
Fritillaria spp. Evadne spp.							67		<1%		<1% 4%		<1%		5%		<1%			<1%					1/0		<1%		<1%	Fritillaria s (n=475-train=8	5pp. 344)	0.80	0.32	0.46
Corycaeidae									73%				170			<1%		1%			<1%		<1%		<1	%	1/0		<1%	Evadne s	5pp. 981)	0.53	0.67	0.59
Calanoida (ci-ciii)									11%				3	3%			9%	170	170		\ 170		170				3%		1%	Corycaei	dae	0.59	0.73	0.65
Paracalanus spp.								% <			80%				1%		3.0		<1%						1%	39			110	Calanoida (ci-cin=150-train=150)	ciii)	0.37	0.11	0.17
Gastropoda (larvae/Limacina)					45%		59			<1%	2%	22%	7% <	1%			<1%										2%			Paracalanus s	spp.	0.23	0.80	0.35
Bivalvia (larvae))			1	11%				1%			1%	78%														1%		7%		na)	0.82	0.22	0.35
Polychaeta (larvae)	23%	8%	ó		18%		39	%	3%		8%		22	2%	5%		2%	2%	3%		5%									(n=126-train=2 Bivalvia (larv (n=96-train=2	291)	0.77	0.78	0.77
Hydrozoa (medusa))		2	2%	2%		5%	%			2%			8	34%			5%												Polychaeta (larv	ae)	0.28	0.76	0.24
Centropages spp.		249	% 4	%					2%		2%		2	2%		18%		2%	6%		16%		16%		2%	6 6 ⁹	%			(n=65-train=6 Hydrozoa (medu	, i			
Echinodermata (larvae)	2%				17%	2%	50)%			2%			1	14%			10%									2%			(n=55-train=3 Centropages s	301)	0.32	0.84	0.46
Calycophorae (nectophore))												3	3%	8%			78%	5%		5%									(n=50-train=2)	119)	0.26	0.18	0.21
Decapoda-brachyura (zoeae))	3%	ó								3%				3%			6%	81%		3%									Echinodermata (larv (n=42-train=26	649)	0.00	0.00	0.00
Ctenophora (larvae)	3%				16%		16	5%					6	5% 4	18%			3%		6%										Calycophorae (nectopho (n=37-train=9	ore) 966)	0.18	0.78	0.30
Decapoda-non brachyura (larvae))	4%	б				49	%						1	12%				12%		69%									Decapoda-brachyura (zoe (n=32-train=3	ae) 343)	0.25	0.81	0.38
Ostracoda	A				8%		36	6%	4%				20%									4%							28%	Ctenophora (larv (n=31-train=	ae) =29)	0.67	0.06	0.12
Tortanus spp.	. 4%	8%	ó													4%		25%	17%		12%		29%							Decapoda-non brachyura (larv (n=26-train=2	ae)	0.44	0.69	0.54
Ascidiacea (larvae)			57	7%																			۷	43%						Ostrace (n=25-train=	oda	0.07	0.04	0.05
Oithona spp.		599	% 6	5%		12%			6%							12%					6%									Tortanus s	spp.	0.26	0.29	0.27
Pseudocalanus spp.											43%							14%			14%				299					(n=24-train= — Ascidiacea (larv	ae)	0.83	0.43	0.57
Calanus spp.				4										1	17%			17%	17%		33%					17				(n=23-train= Oithona s	=34)			
Copepoda (nauplii)					25%					25%																	25%			(n=17-train= Pseudocalanus s	-44)	0.00	0.00	0.00
Euphysa spp. (medusa)																		100%												(n=7-train=	=65)	0.22	0.29	0.25
Bryozoa (larvae)				2.	\Diamond	<u> </u>			C		A		8.	0	4	C	^		\Diamond	C	0	0	>	4.	2. 🔊				/ ₂	Calanus s (n=6-train=	=37)	0.11	0.17	0.13
	Try	i Dedia	driid S	TKOP/	Podol Spy	The Till	Maria	Spp.	Corycal Spp.	aland	Oido atal	Calanus Citi)	Spp. Bivalvia (1	Olychae	ydro.	Centrope (nedus	Chinod	discop	oho ecape	leno,	ohor ecap	Poda Strace	Ortanus	SCIDIACE	Dithona Sol	Rudocal	Alanus Pp.	Physa Tyo	Marpacticoid	Copepoda (naup (n=4-train=2	233)	0.03	0.25	0.06
	Ciril		lande	<i>D</i> .	Podol.		35.50		<i>%</i>	de	10%	Calanus.	Bivalvia (18 Spp. (Arvae)	andel	" (lan	Centrope (nedus	20/2/0/20/20/20/20/20/20/20/20/20/20/20/	Mata	Decapo	The brad	hy4.	Ostraco Noda hon (brac.	Ascidiace ((larvae)	ې رو	Alanus Spp.	Dauplii)	Harpacticoide (medusa)	Euphysa spp. (medu (n=3-train		0.00	0.00	0.00
							-2	,					Ş	limaci	in.				, raci	Opho	oral R	JORDAN TORNA	hyura) (6			~.		1150)	(n=3-train Pribenthic Reports Bryozoa (larv (n=1-train=	ae) =50)	0.00	0.00	0.00
															9)							9	·	andel						Extra Harpacticoida- epibent (n=0-train=	thic =47)	_	-	-
																Pred	icted	Valu	ies											training classes Platyhelminthes/Nemertea (larv	ae)	-	_	-
																														macro avg (co		0.39	0.41	0.35
																														weighted a	ıvg	0.78	0.71	0.72
																																rocicion		f1 ccara

Predictions of discarded taxa from training

Acartia spp.	46.9% (n=283)	33.3% (n=1)	0.9% (n=3)	
Bivalvia (larvae)	0.0%	0.0%	32.5% (n=109)	
Bryozoa (larvae)	0.0%	0.0%	0.3% (n=1)	
Calanoida (ci-ciii)	0.7% (n=4)	0.0%	0.6% (n=2)	40
Calanus spp.	0.5% (n=3)	0.0%	0.0%	
Calycophorae (nectophore)	0.7% (n=4)	0.0%	0.0%	
Centropages spp.	0.7% (n=4)	0.0%	0.0%	
Cirripedia (larvae)	3.0% (n=18)	0.0%	3.3% (n=11)	
Copepoda (nauplii)	0.0%	0.0%	0.9% (n=3)	30
Corycaeidae	9.6% (n=58)	33.3% (n=1)	2.4% (n=8)	
Decapoda-brachyura (zoeae)	1.5% (n=9)	0.0%	0.6% (n=2)	
Echinodermata (larvae)	0.3% (n=2)	0.0%	0.0%	
Evadne spp.	8.0% (n=48)	33.3% (n=1)	6.0% (n=20)	
Fritillaria spp.	0.5% (n=3)	0.0%	0.3% (n=1)	20
Gastropoda (larvae/Limacina)	0.0%	0.0%	3.9% (n=13)	
Hydrozoa (medusa)	0.2% (n=1)	0.0%	1.2% (n=4)	
Oikopleura spp.	1.5% (n=9)	0.0%	0.6% (n=2)	
Paracalanus spp.	24.0% (n=145)	0.0%	2.4% (n=8)	
Platyhelminthes/Nemertea (larvae)	0.0%	0.0%	5.1% (n=17)	10
Podon/Pleopsis spp.	0.8% (n=5)	0.0%	35.5% (n=119)	
Polychaeta (larvae)	0.3% (n=2)	0.0%	3.6% (n=12)	
Pseudocalanus spp.	0.3% (n=2)	0.0%	0.0%	
Tortanus spp.	0.5% (n=3)	0.0%	0.0%	0
Extra training classes	$c_{alanoida}$ c_{iv}	Cyclopoida (u n≥3 (u (~vi)	Zooplankton (inid)	0

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



