Actual Values

Use of SCN features: Yes Max learning objects: 5000 objects/class Strategy N° 8

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

Confusion Matrix – In percent of Actual Value

Classification F	Report Matrix
max 5000 learning	objects per class

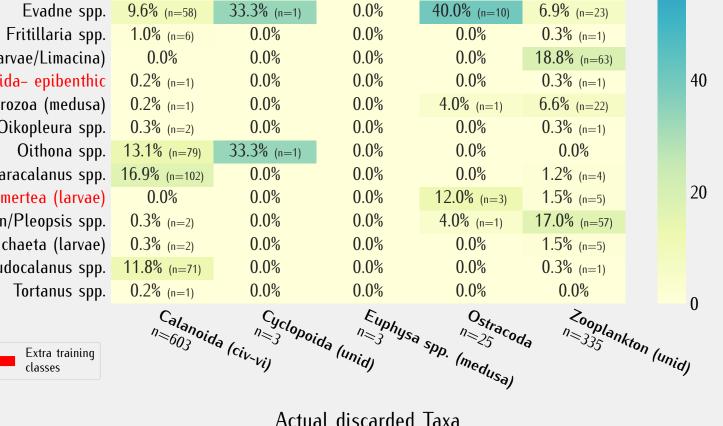
weighted avg 0.77

0.64

precision recall f1-score

											Cor	nusto	n IVId	HITLX	- IN [bercei	11 01	Actu	al Va	tue													•	
Cirripedia (larvae)	70%	~10 _c		170		10,	70,		~10 ₄	~10 _c	20,		~ 10 _c	10,	~ 10 _c	10,	~ 10 ₂	10,					~10 _c	<1%		<1%	~10 ₄		<1%	Cirripedia (larvae	precision	recall	f1-score	
Acartia spp.											2%			<1%		1%		<1%			<1%			5%		< 1/0	< 1/0	<1%		(n=3231-train=5000 Acartia spp	0.94	0.70	0.80	
Oikopleura spp.																<1%				~1%		~1%	1%			<1%	~1%			(n=2290-train=5000	0.90	0.42	0.58	
Podon/Pleopsis spp.															<1%			<1%		170	170			<1%		<1%				(n=1773-train=5000	0.03	0.68	0.77	
Fritillaria spp.										<1%			2.0	2%	170	2%	\110					~1%	8%	170				<1%		Podon/Pleopsis spp (n=607-train=5000	0.35	0.44	0.39	
Evadne spp.				6%							3%	<1%	<1%			<1%	<1%						<1%			<1%		(110		Fritillaria spp (n=475-train=5000	0.45	0.58	0.51	
Corycaeidae		9%													2%		1%			<1%				4%			<1%	<1%		Evadne spp (n=358-train=5000	0.32	0.67	0.43	1.0
Calanoida (ci-ciii)								13%					<1%			4%							13%			2%				Corycaeidae (n=335-train=1760	0.36	0.70	0.48	
Paracalanus spp.							3%	<1%	<1%	55%					<1%									33%						Calanoida (ci-ciii (n=150-train=5000	0.13	0.15	0.14	
Gastropoda (larvae/Limacina)	2%	2%		15%	j		12%	<1%	<1%	<1%	55%	6%	<1%						<1%				4%			<1%				Paracalanus spp (n=141-train=1619	0.17	0.55	0.26	
Bivalvia (larvae)				5%				1%			5%	80%		4%												2%			2%	Gastropoda (larvae/Limacina (n=126-train=3272	0.42	0.55	0.47	0.8
Polychaeta (larvae)	18%			12%	;		12%	2%	2%	2%	3%		31%	2%			5%			5%				6%		2%				Bivalvia (larvae	0.00	0.80	0.85	
Hydrozoa (medusa)							2%		2%	2%			9%	75%	2%		5%			2%				2%						(n=96-train=3764 Polychaeta (larvae	0.20	0.31	0.30	
Centropages spp.		18%			4	%									42%					6%	6%			18%	6%					(n=65-train=1577 Hydrozoa (medusa		0.75	0.34	
Echinodermata (larvae)					2	%	2%						5%	86%			2%			2%										(n=55-train=4052 Centropages spp				0.6
Calycophorae (nectophore)									3%				3%	3%	5%		76%			8%				3%						(n=50-train=3620 Echinodermata (larvae	0.10	0.42	0.25	
Decapoda-brachyura (zoeae)		6%								3%					9%		6%	62%		6%				3%			3%			(n=42-train=3043	0.00	0.00	0.00	
Ctenophora (larvae)	3%			3%			19%				13%		16%	32%			3%		3%	3%							3%			Calycophorae (nectophore (n=37-train=966	0.24	0.76	0.37	
Decapoda-non brachyura (larvae)	4%							4%						4%	4%			4%		73%					8%					Decapoda-brachyura (zoeae (n=32-train=628	0.27	0.62	0.38	0.4
Tortanus spp.	8%														42%		17%	4%		4%	21%		4%							Ctenophora (larvae (n=31-train=42		0.03	0.06	
Ascidiacea (larvae)			22%		17	7%																61%								Decapoda-non brachyura (larvae (n=26-train=423	0.51	0.73	0.60	
Oithona spp.		29%	6%		18	3%									12%								35%							Tortanus spp (n=24-train=203	0.42	0.21	0.28	
Pseudocalanus spp.																								100%						Ascidiacea (larvae (n=23-train=861	0.78	0.61	0.68	0.2
Calanus spp.															17%					17%				50%	17%					Oithona spp (n=17-train=5000		0.35	0.02	0.2
Copepoda (nauplii)									25%		25%															50%				Pseudocalanus spp	0.02	1.00	0.06	
Bryozoa (larvae)		Л				<u> </u>	^			8			δ	٨,			0	\wedge		^	>	Л		A			۵		A	(n=7-train=4845) Calanus spp	0.17	0.17	0.17	
	Cirripel	Car.	Oik Spp.	Podleura St.	on/pl	Tillar	Chadne of Spp.	Corycol	alan,	Paral Ci-	Castro, Solii)	Birahilan	Olych	Stydro Beets	Centro Nos (medi	Chino Doges Sp.	der	Dopo.	Ctenop Nectophol	Dhor ecal	Tortan Toda non o	SCIO	Oithon Car	PSella Pospo.	Jocalanus,	(0)000 (0)00	Otyon Oda	Tod larva	ACTICO.	Catanus spp (n=6-train=359) Copepoda (nauplii (n=4-train=5000) Bryozoa (larvae (n=1-train=1142)	0.05	0.50	0.09	
		(la)	100) 100)	, X	<i>Z</i> 9.	905/5 50		<i>∞</i> .	, de	CK	City Sof	o de las	(dride)) (la)	Vae)	(189) 1885 SO	Mata !	(An.	necto brace	144 (la	Ton Con	Pp. Brack	(lar	ND. Very	dnus	100 100	(nall)	Jolii)	olda.	(n=4-train=5000 Pribe New Bryozoa (larvae	0.03			0.0
							- 4				Castro alanus Sp		inde	(ina)				de	Clenop Chectophol	(A)	Sto.	TYUE	Oithol Oithol							Calanus spp (n=6-train=359 Copepoda (nauplii (n=4-train=5000 Bryozoa (larvae (n=1-train=1142 Harpacticoida- epibenthic (n=0-train=555)	0.00	0.00	0.00	
																					,		(Ac)	1					[Extra Compact Colored Colored	_	_	_	
														Pre	edicte	d Valu	es													Platyhelminthes/Nemertea (larvae (n=0-train=183	-	-	-	
																														macro avg (corr	0.37	0.49	0.36	

Predictions of discarded taxa from training 100 0.0% 0.0% 0.0% 13.8% (n=83) 0.9% (n=3) Acartia spp. 0.0% 0.0% 0.0% 31.9% (n=107) Bivalvia (larvae) 28.0% (n=7) 3.0% (n=10) Bryozoa (larvae) 0.2% (n=1) 0.0% 0.0% 0.0% Calanoida (ci-ciii) 10.8% (n=65) 0.0% 0.0% 4.0% (n=1) 3.0% (n=10) Calycophorae (nectophore) 0.2% (n=1) 0.0% 100.0% (n=3) 0.0% 0.0% 80 0.0% 0.0% 0.0% 0.3% (n=1) Centropages spp. 2.5% (n=15) 0.0% 0.0% Cirripedia (larvae) 1.8% (n=11) 4.0% (n=1) 2.4% (n=8) 0.0% 0.0% 0.0% 0.0% 1.2% (n=4) Copepoda (nauplii) 16.6% (n=100) 0.0% 4.0% (n=1) 2.4% (n=8) Corycaeidae 33.3% (n=1) 0.0% 0.0% 0.0% 0.3% (n=1) Decapoda-non brachyura (larvae) 0.2% (n=1) 60 **Predicted Taxa** Echinodermata (larvae) 0.0% 0.0% 0.0% 0.0% 0.2% (n=1) 40.0% (n=10) 6.9% (n=23) 33.3% (n=1) 0.0% Evadne spp. 9.6% (n=58) Fritillaria spp. 1.0% (n=6) 0.0% 0.0% 0.0% 0.3% (n=1) Gastropoda (larvae/Limacina) 0.0% 0.0% 0.0% 0.0% 18.8% (n=63) Harpacticoida- epibenthic 0.2% (n=1) 0.0% 0.0% 0.0% 0.3% (n=1) 40 0.0% 0.0% 6.6% (n=22) Hydrozoa (medusa) 0.2% (n=1) 4.0% (n=1) Oikopleura spp. 0.3% (n=2) 0.0% 0.0% 0.0% 0.3% (n=1) 0.0% 0.0% 0.0% Oithona spp. 13.1% (n=79) 33.3% (n=1) 0.0% 0.0% Paracalanus spp. 16.9% (n=102) 0.0% 1.2% (n=4) 20 Platyhelminthes/Nemertea (larvae) 0.0% 0.0% 0.0% 12.0% (n=3) 1.5% (n=5) Podon/Pleopsis spp. 0.3% (n=2) 0.0% 0.0% 17.0% (n=57) 4.0% (n=1) 1.5% (n=5) Polychaeta (larvae) 0.3% (n=2) 0.0% 0.0% 0.0% Pseudocalanus spp. 0.0% 0.0% 0.0%



Relative Abundance of Top Taxonomic Instances per Sample

