Use of SCN features: Yes

Actual Values

Max learning objects: 5000 objects/class Strategy N° 6

Gulf Selected Samples prediction using all regions training set, Learning with all classes present in the selected samples, with extra regional training categories, No Calanoida, Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classification Report Matrix max 5000 learning objects per class

precision

recall

f1-score

												Confus	sion 1	Matri:	x – Ir	n percer	nt of A	Actual V	alue								ma	ax 5000 lea	arnıng obje	ects per clas	S
.	2.60		4.0	40	220	70	40	4.0		0 4		40	40 00	4.0	40	20 400		40	40 4	10	4.0	40	60	5 0		Acartia	snn	precision	recall	f1-score	
Acartia spp.			<1% <									26 < 1% < 1				2% <19		<1%	<1% <1			<1%	6%	5%		(n=18062-train=	5000)	0.33	0.36	0.53	
Bivalvia (larvae)								<1%				% <1% <	1%	<1%		<1% <1%				% <						Bivalvia (la (n=7955-train=	3764)	0.97	0.93	0.95	
Copepoda (nauplii)	^		93% <						(1%		<19			2%		1%				% <						Copepoda (na (n=2753-train=			0.93	0.84	
Podon/Pleopsis spp.								1% 1	1% <							<1% 1%			<1%		<1%	<1%	<1%	<1%	6	Podon/Pleopsis (n=2715-train=	spp. 5000)	0.84	0.63	0.72	
Oithona spp.			<1% <								% <1 ⁹			2%		<1% 1%				% <						Oithona (n=2572-train=	spp.	0.25	0.82	0.38	
Calanoida (ci-ciii)			3%			30%			(1%		1%		%	3%		11% 6%			1%	% <	<1%		<1%			Calanoida (ci	-ciii)	0.22	0.30	0.25	
Pseudodiaptomus spp.			2% <						(1%		<19		% <1	% 1%		2% 4%		<1%					2%	<1%		(n=1348-train= Pseudodiaptomus	spp.	0.35	0.59	0.44	1.0
Hydrozoa (medusa)								70%						<1%	1%	6% <19	%	<1%	1%	%		<19	% 1%	<1%	6	(n=1059-train=1 Hydrozoa (med	′ 📗				
Gastropoda (larvae/Limacina))							1% 6	6%	<1	% <1 ⁹					<1% <1%										(n=671-train=671	4052)	0.87	0.70	0.78	
Temora spp.	1%		2% <	<1%	4%	6%	20%	<	(1% 2)	3% <1	% 2%	<	1% 4%	<1%		9% 5%		12%					7%	2%		(n=629-train=	3272)	0.38	0.66	0.48	
Bryozoa (larvae)	(<1% 2	25% 1	8% <	<1%	<1%		Ć	9%	449	6 2%					<19	%			<	<1%					Temora (n=308-train=	spp. 5000)	0.26	0.23	0.24	
Polychaeta (larvae)) <1%	4	22%	8% <	<1%	<1%	3%	1	% <	1% <1	% 38%	ó		3%		4% 14%	ó		<1%	<	<1%	<1% <1%				Bryozoa (la (n=247-train=	rvae) 1142)	0.33	0.44	0.37	0.0
Ascidiacea (larvae)) <1%				3%		<1%				2%	92%							<1% <1	% 1	1%					Polychaeta (la (n=237-train=	rvae) 1577)	0.54	0.38	0.45	0.8
Harpacticoida- epibenthic	c 2%		5%		37%	8%	10%			2%	<19	22	2%	3%		<1% <1%	%	2%	2%	%			3%	2%		Ascidiacea (la (n=194-train=	rvae)	0.96	0.92	0.94	
Centropages spp.	23%			,	41%	5%			9	1%			149	%									7%	2%		Harpacticoida- epibe	nthic	0.08	0.22	0.12	
Echinodermata (larvae))		8% 1	14%			3%							30%		19% 27%	б									(n=108-train= Centropages					
Obelia spp. (medusa))		ļ	5%	19%		5%	10%							24%	14% 14%	ó		5%	%			5%			(n=44-train=: Echinodermata (la	3620)	0.02	0.14	0.03	
Evadne spp.).				6%			6%								69% 19%	ó									(n=37-train=3)	3043)	0.04	0.30	0.06	0.6
Cirripedia (larvae))	4	44%					6	6%	6%	6%			6%		31%	6									Obelia spp. (med (n=21-train=	1003)	0.16	0.24	0.19	
Chaetognatha	a				8%														159	% 7	77%					Evadne (n=16-train=	5000)	0.02	0.69	0.03	
Pseudocalanus spp.	29%						14%		29	9%								29%								Cirripedia (la (n=16-train=	rvae) 5000)	0.01	0.31	0.02	
Cnidaria (larvae))	2	29% 1	14%		14%										29%	6	14%								Chaetogr (n=13-train	natha	0.00	0.00	0.00	
Decapoda-non brachyura (larvae))																		100%							Pseudocalanus	spp.	0.01	0.29	0.02	
Fritillaria spp).																		679	% 3	33%					(n=7-train= Cnidaria (la	rvae)	1.00	0.14	0.25	0.4
Oikopleura spp).																		100)%						(n=7-train Decapoda-non brachyura (la		0.40	1.00	0.57	
Monstrillidae	e												509	%					509	%						(n=4-train= Fritillaria	=423)				
Decapoda-brachyura (zoeae))																								100%	(n=3-train=1 Oikopleura	5000)	0.02	0.67	0.03	
Osteichthyes (larvae))																			10	00%					(n=2-train=	5000)	0.00	0.00	0.00	
Ostracoda	a							10	00%																	Monstril l (n=2-train	=27)	0.00	0.00	0.00	0.2
Paracalanus spp.).																							100%	6	Decapoda-brachyura (zo (n=1-train=		0.00	0.00	0.00	0.2
Microsetella spp.).															100%										Osteichthyes (la (n=1-train	rvae)	0.00	0.00	0.00	
Eurytemora spp.).																,	100%								Ostra (n=1-train	coda	0.00	0.00	0.00	
	Acar	Bir	Cop.	Dod.	Oith	Cals	DSe.	1/40	505×	Pem Bro	Pol	1 Sc. 1	Yar Ce	nx Ch	Obo	Evan Cin	in Cho	Pser Chia	Dec M		Oit No	De OS OS	A PA	Mic Cur	Cala Cabi Porx	·	spp.	0.00	0.00	0.00	
	Acartia	Sp	Copepol	10 n	Plen	Calano	Dida /	Todian toto	Topo	0/2 50/	too (Mychaeta (lana	Dactico	Topaga	Podern.	SPD SP	Dedia 1	Pseudocaland	Decapoda Stia (lanae)	Marie	Oikopleura	Decapodo brachthyle	SCON AC	Microsetella Ponus Spp.	Themora Spp. Spp. Spp.	(n=1-train= Microsetella	spp.	0.00	0.00	0.00	
		,	Copepal) Day	Plin	Colono Spo.	10	Hydrozol Hodiaptomu Ciii)	"nedus	(larvax		Mychaeta (lana)	(lande	1 911	SPD 1916	Sp. (nedus	Thedia lan	Pselidocaland	ys spp de	1000	DD.	Decapoda Osteichthyle Spp.	Slans	2/1/2. O	200 200 VI 200 VI	(n=1-trai Eurytemora	in=4)				0.0
						, D			10	Enoral Photosoph	limaci		, ,	Pritopages	Thic	· Lang	9)		Decapoda Is Spp.		hyura	Decapoda Steichthyle Spp. Spp. Sachyul	8 (20°)	1		(n=1-train= Calanus	1818)	0.00	0.00	0.00	
											47	, Y									14	dr _{de)}	9e)			(n=0-train=	=359)	-	-	-	
																									Extra training	Labidocera (n=0-train=	=493)	-	_	-	
														F	' redic	ted Valu	ies								classes	Tortanus (n=0-train=	spp. =203)	-	-	-	
																										macro avg (c		0.30	0.37	0.27	
																										weighted	avg	0.84	0.58	0.63	
																										,					

Predictions of discarded taxa from training

Acartia spp.	1.7% (n=128)	0.0%	0.0%	
Ascidiacea (larvae)	0.0%	0.0%	0.1% (n=2)	30
Bivalvia (larvae)	0.0% (n=2)	0.0%	32.3% (n=589)	30
Bryozoa (larvae)	3.2% (n=245)	17.4% (n=4)	7.1% (n=129)	
Calanoida (ci-ciii)	25.3% (n=1950)	0.0%	1.1% (n=20)	
Centropages spp.	0.0% (n=2)	0.0%	0.0%	25
Cirripedia (larvae)	4.6% (n=358)	4.3% (n=1)	1.7% (n=31)	
Copepoda (nauplii)	5.0% (n=387)	13.0% (n=3)	22.8% (n=415)	
Decapoda-brachyura (zoeae)	0.0%	0.0%	0.1% (n=1)	
_ Echinodermata (larvae)	4.9% (n=379)	4.3% (n=1)	1.1% (n=20)	20
Eurytemora spp. Evadne spp. Fritillaria spp. Gastropoda (larvae/Limacina) Harpacticoida- epibenthic	0.2% (n=19)	0.0%	0.0%	
Evadne spp.	7.1% (n=545)	4.3% (n=1)	1.1% (n=20)	
Fritillaria spp.	0.8% (n=64)	0.0%	0.4% (n=7)	
⊖ Gastropoda (larvae/Limacina)	0.8% (n=62)	0.0%	14.2% (n=259)	15
🙎 Harpacticoida– epibenthic 🦰	2.0% (n=156)	21.7% (n=5)	0.0%	
Hydrozoa (medusa)	0.1% (n=8)	0.0%	1.5% (n=27)	
Obelia spp. (medusa)	0.1% (n=4)	0.0%	0.0%	
Oikopleura spp.	0.4% (n=33)	0.0%	0.3% (n=6)	10
Oithona spp.	20.3% (n=1566)	4.3% (n=1)	0.4% (n=8)	
Paracalanus spp.	1.0% (n=75)	0.0%	0.0%	
Podon/Pleopsis spp.	2.6% (n=202)	4.3% (n=1)	14.2% (n=258)	_
Polychaeta (larvae)	0.9% (n=68)	8.7% (n=2)	1.1% (n=20)	5
Pseudocalanus spp.	0.1% (n=6)	0.0%	0.0%	
Pseudodiaptomus spp.	18.7% (n=1442)	17.4% (n=4)	0.5% (n=10)	
Temora spp.	0.1% (n=10)	0.0%	0.0%	0
	Calanoida (un	Cyclopoida (u n≥23 (u	Zooplankton (uni	0
	$\eta = \gamma_{11}^{n_0} id_{a_1}$	n=23 poida /	n=1822	
	$'$ (u_{η_i}	id)	nid) (uni	id)

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



