Use of SCN features: Yes

Actual Values

Max learning objects: 5000 objects/class Strategy N° 8

Gulf 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, 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

											C	ontus	sion Matr	rix – I	n per	cent	ot A	ctual '	Value									1111		<i>,</i>	rus per ciass	•
A	200		z 10c	-10,	2204	70,	40.	-10,		10,	-10,	-10 <i>c</i>	2104 2104	204	-10:	-10,	20,	-10.	-10	-10,	-10 ₄	-10.	COV	-11	0, 50,	I	z 1 0z	Acartia spp.	precision	recall	f1-score	
Acartia spp.	36%					7%			10,				<1% <1%		<1%				<1%	<1%	<1%		6%	<1	% 5%		<1%	(n=18062-train=5000) Bivalvia (larvae)	0.99	0.36	0.53	
Bivalvia (larvae)		2%		1%	< 1/0		<1%	<1%	<1%			<1%	<1% <1% <1% <1%		2%		<1/0	<1% 1%			<1%							(n=7955-train=3764) Copepoda (nauplii)	0.97	0.93	0.95	
Copepoda (nauplii)					-10								<1%			~10 ₄	-10						~ 10 ₄	-11	0, ,10,	,		(n=2753-train=5000)	0.77	0.92	0.84	
Podon/Pleopsis spp.	-10							1%	11%			<1%				<1%							<1%	< 13	% <1%)		Podon/Pleopsis spp. (n=2715-train=5000)	0.04	0.63	0.72	
Oithona spp.						4%		<1%	~10 _c		<1%	1%	3%		3% 4%			1% 6%				<1%						Oithona spp. (n=2572-train=5000)	0.25	0.82	0.38	
Calanoida (ci-ciii)						4%			<1%			1%		<1%				3%	<1%			<1% <1%			<1%	,		Calanoida (ci-ciii) (n=1348-train=5000)	0.22	0.31	0.25	1.0
Pseudodiaptomus spp. Hydrozoa (medusa)						<1%				<1%			1/0	< 1/0		1%			<1%		1%	< 1/0	1%		< 170			Pseudodiaptomus spp. (n=1059-train=2113)	0.34	0.58	0.43	
Gastropoda (larvae/Limacina)						<1%		1%				<1%			1/0			<1%	<1%		170		170					Hydrozoa (medusa) (n=671-train=4052)	0.87	0.70	0.78	
Temora spp.						6%				24%				4%	<1%			4%	11%				7%		3%			Gastropoda (larvae/Limacina) (n=629-train=3272)	0.37	0.66	0.48	
Bryozoa (larvae)		<1%							9%			2%					3 0	<1%				<1%						Temora spp. (n=308-train=5000)	0.26	0.24	0.25	0.8
Polychaeta (larvae)						<1%				<1%					3%		5%	12%		<1%		<1%		<1% <1*	%			Bryozoa (larvae) (n=247-train=1142)	0.33	0.44	0.38	0.0
Ascidiacea (larvae)					4%		<1%					1%	92%								<1%	<1%						Polychaeta (larvae) (n=237-train=1577)	0.53	0.42	0.47	
Harpacticoida- epibenthic	<1%		5%		37%	9%	12%				<1%	<1%	21%		2%		<1%	<1%	2%		2%		3%		3%			Ascidiacea (larvae)	0.07	0.92	0.95	
Centropages spp.	23%				41%	5%				9%				14%									7%		2%			(n=194-train=861) Harpacticoida- epibenthic	0.08	0.21	0.12	
Echinodermata (larvae)			8%	11%			3%								32%		16%	30%										(n=108-train=555) Centropages spp.	0.02	0.14	0.03	0.6
Obelia spp. (medusa)				10%	14%	5%	5%	5%								33%	19%	5%					5%					(n=44-train=3620) Echinodermata (larvae)	0.04	0.32	0.07	
Evadne spp.						6%		6%			6%						69%	12%										(n=37-train=3043) Obelia spp. (medusa)	0.22	0.32	0.26	
Cirripedia (larvae)			44%						6%		6%	6%			6%			31%										(n=21-train=1003) Evadne spp.				
Chaetognatha					8%								8%								15%	69%						(n=16-train=5000) Cirripedia (larvae)	0.02	0.69	0.03	
Pseudocalanus spp.	29%						14%			29%									29%									(n=16-train=5000) Chaetognatha	0.01	0.31	0.02	0.4
Decapoda-non brachyura (larvae)																				100%								(n=13-train=89)	0.00	0.00	0.00	
Fritillaria spp.																					67%	33%						Pseudocalanus spp. (n=7-train=4845)	0.01	0.29	0.02	
Oikopleura spp.																					100%							Decapoda-non brachyura (larvae) (n=4-train=423)		1.00	0.73	
Paracalanus spp.																									100%	5		Fritillaria spp. (n=3-train=5000)	0.02	0.67	0.03	
Osteichthyes (larvae)																						100%						Oikopleura spp. (n=2-train=5000)	0.00	0.00	0.00	0.2
Decapoda-brachyura (zoeae)																										100%		Paracalanus spp. (n=1-train=1619)	0.00	0.00	0.00	
Eurytemora spp.																			100%									Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00	
	Acarria	Sp.	Copepa	Podon	Oithon Pleapsi	Caland Spp.	Point	Alydro, Yodiaptomiciii)	Castro	Temora	Bryon	Polych Od (lande	Ascidiacea (lange)	Dacticoida Anae)	Chine Chine	Obelia	Chadin	Cirriped Spp.	Chaelognatha (larvae)	Decap Hocalanus	Poda non	Oikopi	Paraca Spp.	Osteichthye Ranus Spp.	Pcapor Cury	Itemora Sp.	Tortanus Spp.	Decapoda-brachyura (zoeae) (n=1-train=628)	0.00	0.00	0.00	
		20.	(larvae)	A (Dally	leops,		Poida (ci.	Cir One	ned med	oda (la)		land	of land	No COIDA	8. St.	ormata !	PD. (M.	<i>PD</i> .	d (larvage)	Planus	Sallon	500	VI DO	Anus Anyo	S (lar	Ota Sp.	Spp. Spp.	Eurytemora spp. (n=1-train=1818)	0.00	0.00	0.00	0.0
			·			<i>%</i>		V)	<i>Spp.</i>		de/line	?c.	% 9/	*e)	Pibenth		(ande)	Misa)	9		7/2	achyur.	.	·	" del	Sura Rop.		Calanus spp. (n=0-train=359)		-	-	0.0
													Labidocera spp. (n=0-train=493)	_	_	_																
Extra training classes													Tortanus spp.	_	_	_																
														·······································	J.J.u V												2.43303	(n=0-train=203) macro avg (corr)	0.31	0.42	0.31	
																												weighted avg		0.58	0.63	
																												weighted avg	0.01	0.50	0.05	

Predictions of discarded taxa from training

							,	,	400
	Acartia spp.	1.6% (n=121)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100
	Ascidiacea (larvae)	0.0% (n=1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=2)	
	Bivalvia (larvae)	0.0% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	32.1% (n=585)	
	Bryozoa (larvae)	3.2% (n=245)	0.0%	17.4% (n=4)	0.0%	0.0%	0.0%	7.6% (n=139)	
	Calanoida (ci-ciii)	25.9% (n=1999)	14.3% (n=1)	0.0%	0.0%	0.0%	0.0%	1.2% (n=21)	80
	Centropages spp.	0.0% (n=2)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.0%	00
	Cirripedia (larvae)	4.5% (n=347)	28.6% (n=2)	4.3% (n=1)	0.0%	0.0%	0.0%	1.7% (n=31)	
	Copepoda (nauplii)	4.9% (n=378)	28.6% (n=2)	13.0% (n=3)	0.0%	0.0%	0.0%	22.6% (n=411)	
	Echinodermata (larvae)	5.2% (n=400)	0.0%	4.3% (n=1)	0.0%	0.0%	0.0%	1.1% (n=20)	
Predicted Taxa	Eurytemora spp.	0.2% (n=17)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60
	Evadne spp.	7.1% (n=548)	0.0%	4.3% (n=1)	0.0%	0.0%	0.0%	1.2% (n=22)	
pe	Fritillaria spp.	0.8% (n=63)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.3% (n=6)	
ict	$Gastropoda \ (larvae/Limacina)$	0.7% (n=57)	14.3% (n=1)	0.0%	0.0%	0.0%	100.0% (n=	1) 14.3% (n=260)	
red	Harpacticoida- epibenthic	2.1% (n=165)	0.0%	26.1% (n=6)	0.0%	0.0%	0.0%	0.0%	
Ф	Hydrozoa (medusa)	0.1% (n=9)	0.0%	0.0%	0.0%	0.0%	0.0%	1.5% (n=28)	40
	Obelia spp. (medusa)	0.1% (n=4)	0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=1)	
	Oikopleura spp.	0.4% (n=32)	0.0%	0.0%	0.0%	0.0%	0.0%	0.4% (n=7)	
	Oithona spp.	19.9% (n=1537)	0.0%	4.3% (n=1)	100.0% (n=1	0.0%	0.0%	0.4% (n=8)	
	Paracalanus spp.	1.0% (n=74)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20
	Podon/Pleopsis spp.	2.6% (n=198)	14.3% (n=1)	4.3% (n=1)	0.0%	0.0%	0.0%	13.7% (n=250)	20
	Polychaeta (larvae)	` ,	0.0%	8.7% (n=2)	0.0%	0.0%	0.0%	1.2% (n=22)	
	Pseudocalanus spp.	0.1% (n=6)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	Pseudodiaptomus spp.	18.4% (n=1421)		13.0% (n=3)		0.0%	0.0%	0.5% (n=9)	
	Temora spp.	0.1% (n=10)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0
		Cala	Chid	$C_{y_{C/2}}$	Micro	Mon	Ostr	<00p	U
		$\eta > \gamma_{11}$	Cnidario Ida (unid)	Cyclope n 23 (larvae)	Mi_{cros} $0id_{\partial}$ $(unid)$	$rac{\mathcal{M}_{onstri}}{\stackrel{n_{>>}}{\sim}}$ Setell $_{a}$ $_{spp.}$	$O_{St_{rag}}$	Zooplank Coda ^{n≥1822}	t_{0n}
		•	(anid)	vae)	(unid)	spp.	-6	,	· (unid)

Relative Abundance of Top Taxonomic Instances per Sample



