Use of SCN features: Yes

Actual Values

Max learning objects: Maximum objects/class Strategy N° 4

Gulf Selected Samples prediction using Gulf training set, Learning with selected samples classes with no low regional training instances, with extra training categories, No Calanoida, Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

Classification Report Matrix max available learning objects per class

precision recall f1-score

												Cont	usion N	latrıx	– In	percen	t ot /	Actua	l Vá	alue											•	bjects per c	เนอร
A coutie ann	7.40	~10,	~10 _c	~10 _c	/ 15	= 0×	10,	70 ,	~10 _c	~10 ₄	~10 ₄	<1%			1 0,	~10 _c		0, 70,		~10 _c		0, ,1	0, 10,					Acartia		precision	recall	f1-score	l
Acartia spp.															1%	<1%	<1	% 3%			<1		% <1%					(n=18062-train=101	461)	0.96	0.74	0.84	
Bivalvia (larvae)				<1%	6 <1	1% <	<1%	<1%	<1%	4%		<1%	<	<1%				<1	%	<1%		<1	%					Bivalvia (lar (n=7955-train=3	3574)	0.97	0.93	0.95	
Copepoda (nauplii)	<1%	1%	94%	<1%	6 <1	1% <	<1%	<1%		<1%		<1%	<1%			<19	б	<1	%	<1%		<1	%					Copepoda (nau (n=2753-train=10	plii) 297)	0.77	0.94	0.85	
Podon/Pleopsis spp.	<1%	3%	14%	65%	<1	1% <	<1%	<1%	1%	10%	<1%	2%	<1%					2%	ó	1%	<1	% <1	% <1%	<1%				Podon/Pleopsis (n=2715-train=3	spp. 5541)	0.87	0.65	0.74	
Oithona spp.	6%		<1%	<1%	7 9	9%	7%	4%				<1%	<1%	1	%	<19	б	2%	ó	<1%		19	б					Oithona (n=2572-train=4	spp. (428)	0.39	0.79	0.52	
Calanoida (ci-ciii)	4%		4%	2%	16	ĵ% ⁴	41%	11%	<1%	<1%		3%		1	%	<19	б	149	%	1%		19	б					Calanoida (ci- (n=1348-train=1	-ciii)	0.31	0.41	0.35	
Pseudodiaptomus spp.	12%		2%	<1%	18	3%	12%	50%		<1%		<1%		1	%			4%	ó	<1%								Pseudodiaptomus (n=1059-train=2		0.43	0.50	0.46	
Hydrozoa (medusa)	5%	2%		4%	<1	1%		<1%	72%	6%		<1%					<1	% 8%	ó <	<1%		<1	%					Hydrozoa (med	usa)	0.84	0.72	0.77	
Gastropoda (larvae/Limacina)	<1%	14%	8%	10%	<1	1% <	<1%		1%	64%	<1%	<1%						<1	%	<1%								(n=671-train=3 Gastropoda (larvae/Limac	3730)				
Temora spp.	30%		2%	<1%	6 6 ⁹	%	7%	15%		<1%	18%	2%		<	1%	4%		149	%	<1%								(n=629-train=2)	2871)	0.37	0.64	0.47	
Bryozoa (larvae)	<1%	<1%	26%	19%		<	<1%	<1%		9%		43%	<1%					<1	%			<1	%					Temora (n=308-train=2	2199)	0.70	0.18	0.29	
Polychaeta (larvae)	1%		21%	5%	<1	1%	5%	3%		1%	<1%	<1%	43%					119	%	2%	<1	% 3%	б	<1%	<1%			Bryozoa (lar (n=247-train=	973)	0.39	0.43	0.41	
Ascidiacea (larvae)	4%				49	%		<1%						91%								<1	%		<1%			Polychaeta (lar (n=237-train=	vae) :464)	0.86	0.43	0.57	
Harpacticoida- epibenthic	9%		5%		39	9%	13%	10%			<1%	<1%		16	5%			3%	ó			49	б					Ascidiacea (lar (n=194-train=	vae) :805)	0.99	0.91	0.95	
Centropages spp.	70%				18	3%										11%												Harpacticoida- epiber (n=108-train=	nthic	0.16	0.16	0.16	
Echinodermata (larvae)	3%		11%	8%	39	% 2	2 7 %	5%								3%		359	%	3%		39	б					Centropages (n=44-train=3	,	0.05	0.11	0.07	
Obelia spp. (medusa)	14%				14	1%	5%		5%								249	389	%									Echinodermata (lar (n=37-train=	vae)	0.11	0.03	0.04	
Evadne spp.	6%								6%									819	%	6%								Obelia spp. (med	usa)	0.45	0.24	0.31	
Cirripedia (larvae)			50%				6%			6%										38%								(n=21-train= Evadne	spp.	0.01	0.81	0.02	
Pseudocalanus spp.	100%																											(n=16-train=7 Cirripedia (lar	vae)	0.07	0.38	0.11	
apoda–non brachyura (larvae)																					50 ⁹	%				50%	5	(n=16-train= Pseudocalanus	:716)				
Fritillaria spp.																						100)%					(n=7-train=	:228)	0.00	0.00	0.00	
Eurytemora spp.	100%																											Decapoda-non brachyura (lar (n=4-train=	:197)	0.22	0.50	0.31	
Decapoda-brachyura (zoeae)																										1009	%	Fritillaria (n=3-train=2	2701)	0.02	1.00	0.04	
Osteichthyes (larvae)																										100	%	Eurytemora (n=1-train=1	spp. 730)	0.00	0.00	0.00	
Paracalanus spp.																												Decapoda-brachyura (zo (n=1-train=	eae) 277)	0.00	0.00	0.00	
		Biz	Con	Por	× 0	Dizz	Cal	DSE.	Hym	C ^S C	Ten	Bri	Pol,	Asc.	dr.	Cen Co	, O	50, 50	, de la companya de l	Cin. B		, X	in Cur.	Des	Osx	Par Car Car	Si Porx	Osteichthues (lar	vae)	0.00	0.00	0.00	
	Acartic	. 91/ SDD.	Sia land	Podle (not	on/pled	Pithona Posi	SPD SPD	ida (ci. Ci	Plydro, odiapioni,	200 (m	Temo Temo	16 500 SO	Polychae (lange)	Ascidiacea (lange)	Dack	Centropages Coida Chibent	nodern.	Selia Spp. Mariae	The	Cirripedia (Seudocalan,	Poda		Decal	Oda Chil	Paracelanus Sp.	Tortanus Sp.	Paracalanus (n=1-train:	spp.	0.00	0.00	0.00	
			d		Puplii)) (2)	r. b	(,(,',(,',(,',(,',(,',(,',(,',(,',(,',(ii) Onl	15 500	(1 ₁₅₀₎ (1 ₀	mae/i.	'Ae)	(larvae)	larva.	Dibo.	<i>Sp.</i> (ta (larva	medy		anael	15 500	on brach	50/	achyu,	(lange)	<i>70.</i> ′	Calanus	spp.	_	_	_	
										~.		Ma	Polychae Range, acina,			<i>`D</i> (hic	46	ソ				Tillaria SPP.	(lan		Paracelanus Spp. Talanus Spp.		(n=0-train= Labidocera	:109) spp.				
																								de			Extra	(n=0-train=	:493)	_	-	-	
														Pro	edict	ted Value	es										trainir classe	(n=0-train=	111)	-	-	-	
																												macro avg (c	orr)	0.38	0.44	0.36	
																												weighted	avg	0.85	0.76	0.79	

Predictions of discarded taxa from training 100 0.0% 0.0% 0.0% 50.0% (n=1) 0.0% 0.0% 0.1% (n=1) Acartia spp. $\frac{11.5\% \text{ (n=885)}}{11.5\% \text{ (n=3)}}$ 23.1% (n=3) Ascidiacea (larvae) 0.0% 7.7% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 30.4% (n=553) Bivalvia (larvae) 0.0% (n=2) 0.0% Bryozoa (larvae) 2.6% (n=200) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 8.7% (n=2) 7.1% (n=130) 80 0.0% Calanoida (ci-ciii) 34.7% (n=2676) 28.6% (n=2) 17.4% (n=4) 0.0% 0.0% 0.0% 0.0% 2.7% (n=50) 0.0% 0.0% 0.0% 0.0% 50.0% (n=1) 0.0% 0.0% 0.0% Centropages spp. 0.0% Cirripedia (larvae) 0.8% (n=61) 14.3% (n=1) 0.0% 0.0% 0.0% 0.0% 1.2% (n=22) 0.0% 0.0% Copepoda (nauplii) 5.1% (n=393) 0.0% 28.6% (n=2) 13.0% (n=3) 0.0% 0.0% 0.0% 0.0% 26.3% (n=480) 0.0% 0.0% 60 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=1) Echinodermata (larvae) 0.1% (n=4) **Predicted Taxa** Evadne spp. 10.3% (n=797) 0.0% 0.0% 4.3% (n=1) 0.0% 0.0% 0.0% 0.0% 1.7% (n=31) 0.0% 0.0% 0.0% 100.0% (n=2) 0.0% Fritillaria spp. 1.7% (n=129) 30.8% (n=4) 0.0% 1.0% (n=18) 100.0% (n=1) 14.0% (n=255) Gastropoda (larvae/Limacina) 0.6% (n=47) 0.0% 14.3% (n=1) 4.3% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% Harpacticoida – epibenthic 0.7% (n=56) 26.1% (n=6) 40 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.7% (n=31) Hudrozoa (medusa) 0.2% (n=15) 0.0% 0.0% Obelia spp. (medusa) 0.0% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 13.0% (n=3) 100.0% (n=1)Oithona spp. 16.3% (n=1254) 7.7% (n=1) 0.0% 0.0% 0.0% 0.0% 0.6% (n=11) Osteichthues (larvae) 0.0% 30.8% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 20 0.0% 0.0% 0.0% 0.0% 0.0% 12.2% (n=223) Podon/Pleopsis spp. 1.6% (n=127) 0.0% 14.3% (n=1) Polychaeta (larvae) 0.1% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.3% (n=6) Pseudodiaptomus spp. 13.6% (n=1051) 0.0% 0.0% 13.0% (n=3) 0.0% 0.0% 0.0% 0.0% 0.4% (n=8) Temora spp. 0.1% (n=8) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0 Microsetella spp. Zooplankton (unid) Chaetognatha Cnidaria (larvae) Cyclopoida (unid) Oikopleura spp. Calanoida (unid) Monstrillidae" Ostracoda

Relative Abundance of Top Taxonomic Instances per Sample



