Use of SCN features: Yes

Max learning objects: Maximum objects/class Strategy N° 7

Actual Values

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

	Classific	ation Re	port Mat	rix
max a	available	learning	objects	ner class

precision recall f1-score

		Confusion Matrix – In percent of Actual Value													max available learning objects per class																					
																																	precision	recall	f1-scor	re
Acartia spp.			<1			17%			2%	<1%								<1%						<1%	<1%			<1%		<1%	<1%	Acartia spj (n=18062-train=111319) 0.97	0.69	0.81	
Bivalvia (larvae)		93%									4%					<1%			<1%		<1%						<1%					Bivalvia (larvae (n=7955-train=3764		0.93	0.95	
Copepoda (nauplii)			94						<1%		<19			<1%					1%		40.	1%				<1%	<1%				.40.	Copepoda (naupli (n=2753-train=11555	0.76	0.94	0.84	
Podon/Pleopsis spp.		4%								<1%	8%	<		2%			4.0		20			1%				4.0	<1%				<1%	Podon/Pleopsis spj (n=2715-train=7342	. 0.02	0.68	0.75	
Oithona spp.						80%					-10			<1%			1%		2%			2%					<1%					Oithona sp	. 0.26	0.80	0.50	
Calanoida (ci-ciii)				% De					12%		<19				<1%		2%		3%			6%		~10		1%	<1%				~10	(n=2572-train=588 ² Calanoida (ci-cii)			
Pseudodiaptomus spp.		20,							54%	60%	<19			<1%			<1%		<1%		3%			<1%		10,		<1%			<1%	(n=1348-train=5557) 0.27	0.33	0.29	
Hydrozoa (medusa)		3%				<19				69% 1%	5%	<		<1%					<1%	< 1%		<1%		<1%		1%		<1%				Pseudodiaptomus spj (n=1059-train=2113		0.54	0.48	
astropoda (larvae/Limacina)				6 %		<19			16%	1/0	<19	21	8%	<1%	3%			~10 _/	~10 _/			<1% 5%		7%				2%			<1%	Hydrozoa (medusa (n=671-train=4052	0.89	0.69	0.78	
Temora spp.									10%					200⁄				< 1/0	<1%		11/0			//0			<1%				< 1/0	Gastropoda (larvae/Limacina (n=629-train=3272		0.63	0.49	
Bryozoa (larvae) Polychaeta (larvae)			3 26			<19			20⁄					38% <1%					3%		5%	<1%			~19 _c	<1%)	<1%	~10 ₂		Temora spi	. 0.40	0.28	0.35	
Ascidiacea (larvae)			23	0	//0	3%			<1%		1/0		1/0	< 1/0	2%	89%			3/0		3/0	14/0				<1%			<1/0	< 1/0		(n=308-train=734) Bryozoa (larvae)			
Harpacticoida- epibenthic			5%) ₂		42%			11%					<1%			17%		<1%		2%	<1%		2%	1/0	2%	∠′0					(n=247-train=1142	0.43	0.38	0.40	
Centropages spp.			J/	0			6		1 170			7	2%	170	170		1770	9%	170	'	270	2%		270		270						Polychaeta (larvae (n=237-train=1577) 0.30	0.38	0.46	
Echinodermata (larvae)			89	%	11%			7 7 0	3%				. 0					3/0	30%		22%											Ascidiacea (larvae (n=194-train=86°	0.98	0.89	0.93	
Obelia spp. (medusa)						19%	6		3.0	5%									30 0	24%						5%						Harpacticoida- epibenthi (n=108-train=555	0.15	0.17	0.16	
Evadne spp.						13 (6%		6%										210	75%					3 0						Centropages sp (n=44-train=3620	0.07	0.09	0.08	
Cirripedia (larvae)			44	%						0 0	6%			6%	6%				6%			31%										Echinodermata (larvae) 0.04	0.30	0.07	
Chaetognatha																8%										23%	69%					(n=37-train=3043 Obelia spp. (medus a)			
Pseudocalanus spp.																								14%								(n=21-train=1003) 0.42	0.24	0.30	
da–non brachyura (larvae)																									100%							Evadne spj (n=16-train=11064) 0.01	0.75	0.03	
Fritillaria spp.																										67%	33%					Cirripedia (larvae (n=16-train=7685) 0.01	0.31	0.02	
Oikopleura spp.																										100%						Chaetognath (n=13-train=89	0.00	0.00	0.00	
Paracalanus spp.																																Pseudocalanus spj (n=7-train=4845	. 0.02	0.14	0.03	
Osteichthyes (larvae)																											100%	5				Decapoda-non brachyura (larvae	0.44	1.00	0.62	
ecapoda–brachyura (zoeae)																									100%							(n=4-train=423 Fritillaria spj)	_	_	
Eurytemora spp.																								100%								(n=3-train=6992)) 0.02	0.67	0.04	
	Acar	Bi		Do.	Podo	Oi,	The	Color	DSel	Hyg	(Co)	7	Emo.	Bryo	Poly	dscie	1/01	Cent	c Cohe	Obel	i. Cha	Cirri	in Chap	Seu.	Oeco	· Frite	Oife	Bara	Oster.	O _e Co.	Curux	Oikopleura sp (n=2-train=5305) 0.00	0.00	0.00	
	Acart	300	Wia (la)	DOQ.	(no.	Oil Pleap	thond sp	'''01 120	Pseulo Seulo Seulo	Odiapio.	Totod (ne	Opole		Bryon	Da Clan	Scill Ascid	Aced (1)	Dacticoida (Nae)	Opages	inodermate	(3 SD).	Tolhe Spp. (Medusa)	ioedia (land	tognatha	ocalanu.	Sp. Sp.	Maria Sp.	Poleura Sp.	Osteic Calanus P. Spp.	hthyes of	da bronora	Paracalanus spj (n=1-train=1619	0.00	0.00	0.00	
				%)	40%	Olij	15 500	•			145 500	dusal	(and	Oction 1	•		rae, "	rae, "	Diben	, , , , , , , , , , , , , , , , , , ,	(larvage)	nedusa)	N	(de)	<i>*</i>	Dp. "	brachy	~2	? <i>%</i>		vae Chyura	Osteichthyes (larvae (n=1-train=45		0.00	0.00	
											·			Bryon Spp.	ina)				17	ic .	ツ						94/	Paral Paral Sp. Alanae			Curytemora Vae) Vae)	Decapoda-brachyura (zoeae) 0.00	0.00	0.00	
																												40)				(n=1-train=628 Eurytemora spj	. 0.00	0.00	0.00	
																Pı	redict	ed Val	ues													(n=1-train=1818) 0.00			
																																macro av	0.34	0.42	0.33	
																																weighted av	0.84	0.74	0.77	

	Acartia snn	9.1% (n=704)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100
	Ascidiacea (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=2)		
	Bivalvia (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	30.7% (n=560)		
	Bryozoa (larvae)		0.0%	17.4% (n=4)	0.0%	0.0%	0.0%	5.2% (n=94)		
	Calanoida (ci-ciii)			4.3% (n=1)	0.0%	0.0%	0.0%	1.3% (n=23)		00
	Centropages spp.		0.0%	0.0%	0.0%	50.0% (n=1)	_	0.0%		80
	Cirripedia (larvae)		14.3% (n=1)	4.3% (n=1)	0.0%	0.0%	0.0%	1.9% (n=34)		
	Copepoda (nauplii)		28.6% (n=2)	13.0% (n=3)	0.0%	0.0%	0.0%	26.2% (n=478)		
	Echinodermata (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	0.9% (n=17)		
Э	Eurytemora spp.	0.0% (n=1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		60
Тах	Evadne spp.	8.8% (n=682)	0.0%	4.3% (n=1)	100.0% (n=1)	0.0%	0.0%	1.5% (n=28)		
Pá	Fritillaria spp.	1.0% (n=78)	0.0%	4.3% (n=1)	0.0%	50.0% (n=1)	0.0%	0.4% (n=8)		
icte	Gastropoda (larvae/Limacina)	0.6% (n=43)	0.0%	0.0%	0.0%	0.0%	100.0% (n=	1) 12.7% (n=232)		
Predicted Taxa	Harpacticoida- epibenthic	0.8% (n=65)	0.0%	13.0% (n=3)	0.0%	0.0%	0.0%	0.0%		
	Hydrozoa (medusa)	0.0% (n=3)	0.0%	0.0%	0.0%	0.0%	0.0%	1.4% (n=25)		40
	Obelia spp. (medusa)	0.0% (n=1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Oikopleura spp.	0.3% (n=21)	0.0%	0.0%	0.0%	0.0%	0.0%	0.4% (n=8)		
	Oithona spp.	16.5% (n=1273)	0.0%	8.7% (n=2)	0.0%	0.0%	0.0%	0.4% (n=7)		
	Paracalanus spp.	0.3% (n=22)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		20
	Podon/Pleopsis spp.	2.8% (n=219)	42.9% (n=3)	4.3% (n=1)	0.0%	0.0%	0.0%	15.5% (n=282)		20
	Polychaeta (larvae)		0.0%	8.7% (n=2)	0.0%	0.0%	0.0%	1.0% (n=18)		
	Pseudocalanus spp.	0.1% (n=4)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Pseudodiaptomus spp.			17.4% (n=4)		0.0%	0.0%	0.3% (n=6)		
	Temora spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0
		Calan	Cnidario Ida (unid)	Cyclopo n≥23 (la _{rvae)}	M_{icros} $p_{id_{a}} \stackrel{n_{icros}}{(u_{nid})}$	M_{onstr} $\stackrel{N}{\sim}_{\geq}$ $Setell_{oldsymbol{ heta}}$ $Sp_{oldsymbol{p}_{c}}$	$O_{St_{rad}}$	Zooplank Coda ^{n≈1822}		U
		"=>>101	da (unia)	$a(l_{a_{r_{Va}}})^{n_{l_{l_{l_{l_{l_{l_{l_{l_{l_{l_{l_{l_{l_$	$Pid_{a} \stackrel{n \geq 1}{(y_{n})} = 0$	Petella ">	$Ulid_{a_e}$	oda "≥1822 nk	ton (v.	
			"a)	(e)	"Id)	$^{\circ}p_{\mathcal{P}_{\circ}}$			(unid)	1

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



