Use of SCN features: Yes

Max learning objects: Maximum objects/class Strategy N° 1

Actual Values

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

	Clas	sificati	on Rep	oort	Mat	rix	
ma	x availa	ble lea	rning	obje	cts _I	oer	class

precision recall f1-score

											Conf	usior	ı Má	atrix -	- In	perce	ent d	of Ac	ctual Va	alue									max	available	learning o	bjects per c	lass
_																														precision	recall	f1-score	ı
Acartia spp. 7	74%	<1%	<1%	6 15%	6 4%	% 2%	<1	% <1%	s <1%	<1%		<1%	<1%	<1%		<1%	3%	<19	%		<1% <19	%				<	<1%	Acarti (n=18062-train=1	a spp. 01461)	0.96	0.74	0.84	
Bivalvia (larvae) <	<1% 939	1%	<1%	6 <19	% <1	% <1	% <1	% 4%		<1%		<1%					<1%	<19	%		<19	%						Bivalvia (l (n=7955-train:	arvae) -3574)	0.97	0.93	0.95	
Copepoda (nauplii)	1%	94%	1%	<19	% <1	% <1	%	<1%	á	<1%	<1%				<1%		<1%	<19	%		<19	%						Copepoda (n	auplii)	0.77	0.94	0.85	
Podon/Pleopsis spp. <	<1% 3%	14%	65%	<19	% <1	% <1	% 1%	10%	<1%	2%	<1%						2%	1%	í		<1% <19	%	<1%	6		<	<1%	(n=2753-train= Podon/Pleops	,		_	_	
Oithona spp.	6%	<1%	<1%	79%	7%	% 4%	í			<1%	<1%		1%		<1%		2%	<19	%		1%	ó						(n=2715-train:	=3541)	0.07	0.65	0.74	
Calanoida (ci-ciii)	4%	4%	2%	16%	6 41	% 129	% <1	% <1%	ý .	3%			1%		<1%		15%	1%	í		1%	б						Oitho n (n=2572-train:	=4428)	0.39	0.79	0.52	
Pseudodiaptomus spp. 1	12%	2%	<1%	6 18%	6 11	% 51%	%	<1%	5	<1%			1%				4%	<19	%									Calanoida ((n=1348-train:		0.31	0.41	0.35	1.0
Hydrozoa (medusa)	4% 2%	<1%	5%	1%		<1	% 729	6%		<1%	<1%					<1%	7%	<19	%		<19	%						Pseudodiaptomu (n=1059-train:		0.43	0.51	0.46	
Gastropoda (larvae/Limacina) <	<1% 139	8%	10%	<19	% <1	1%	1%	64%	<1%	<1%								6 <1 ⁹										Hydrozoa (m	dusa)	0.94	0.72	0.78	
Temora spp. 3	31%	2%	<1%	6 5%	8%	169	% <1	% 1%	18%	<1%				4%			14%	<19	%									(n=671-train: Gastropoda (larvae/Lim	′ 📕				
Bryozoa (larvae) <	<1% <1	% 27%	20%	<19	% <1	1% <1	%	10%		39%	<1%		<1%				<1%	б			<19	%						(n=629-train:	=2871)	0.38	0.64	0.48	
Polychaeta (larvae)	2%	22%	5%	<19	% 6%	% 3%	ó	2%		<1%	42%						11%	2%	i		<1% 2%	б	<1%	<1%				(n=308-train:	a spp. =2199)	0.71	0.18	0.29	0.0
Ascidiacea (larvae)				4%		1%						91%									<19	%		<1%				Bryozoa (l (n=247-train	irvae) =973)	0.40	0.39	0.40	0.8
Harpacticoida- epibenthic		5%				% 119	%		<1%	<1%			12%				4%				4%	ó						Polychaeta (l (n=237-trai	arvae) =464)	0.85	0.42	0.56	
Centropages spp. 7		110	004	18%		0, 50,	,							11%			35%	204	,		204	,						Ascidiacea (l (n=194-trai	arvae)	0.08	0.91	0.94	
Echinodermata (larvae) Obelia spp. (medusa)		11%		14%		% 5% %	109	6							5%	24%	29%				3%	b						Harpacticoida- epib (n=108-train	enthic		0.12	0.13	
Evadne spp. (medasa)							6%										75%		j									Centropage (n=44-train:	s spp.	0.05	0.11	0.07	0.6
Cirripedia (larvae)		50%			6%	%		6%										38%	%									Echinodermata (I (n=37-train	arvae)	0.25	0.05	0.09	0.6
Chaetognatha 1	15%			8%								8%							8%		31%	% 8%		23%				Obelia spp. (m	dusa)	0.50	0.24	0.32	
Pseudocalanus spp. 1	100%																											(n=21-train Evad n	e spp.	0.01	0.75	0.02	
Cnidaria (larvae)		29%	14%	i	29	%												14%	%	14%								(n=16-train: Cirripedia (l	=7238)	0.01			
Decapoda-non brachyura (larvae)																					100%							(n=16-train	=716)	0.06	0.38	0.10	
Fritillaria spp.																					1009)%						Chaeto (n=13-tra	natha n=18)	1.00	0.08	0.14	0.4
Oikopleura spp.																					1009)%						Pseudocalanı (n=7-trai	s spp. =228)	0.00	0.00	0.00	
Monstrillidae 5	50%													50%														Cnidaria (l (n=7-tra	arvae)	1.00	0.14	0.25	
Decapoda-brachyura (zoeae)																					100%							Decapoda-non brachyura (l	arvae)	N 21	1.00	0.47	
Osteichthyes (larvae)																								100%				(n=4-traii Fritillari					
Ostracoda								100%	ő																			(n=3-train:	=2701)	0.02	1.00	0.04	0.2
Paracalanus spp. 1	100%																											Oikopleur (n=2-tra	a spp. n=37)	0.00	0.00	0.00	
Microsetella spp.				1009	%																							Monstr (n=2-tra		0.00	0.00	0.00	
Eurytemora spp. 1			△						>	<i>δ</i>	A	Л	Ι,		<u> </u>		^						1. 0			1.		Decapoda-brachyura (zoeae)	0.00	0.00	0.00	
	Acartia Sp.	ighia lan	Podd (no	Jon Pleop	hona	Planoida (Cudodi.	tomus Sp.	Stropoda (Bryon Spp. (lange/lije	Polyco (land	Social Social		Centle Ce	, Chi	nodernale Sp.		dhe St	Thedia land	Pselidocolonus Ignatha Chidal Ignatha Chida Ignatha Chida Ignatha Chida Ignatha Chida Ignatha Chida Ignatha Chida Ignatha Chid	Decapoda II	Ton Sp.	Monstrillida Spp.	Osteichth De brachyl	Ostracoda Stracoda Jua (2	Microse Sp.	EURITEMORA SP.	Osteichthyes (l (n=1-tra	arvae)	0.17	1.00	0.29	
	7/2	an.	de Ine	24/2/:		gi % (Tonus (1)	'edus	(lange	land	(a) (b)		Nacida Nacida	. Yes	SPD MAR		med.	? Marre	To a lang	(lande)	Pon Spp.	19 July 100	o brachi	yes (lar	1115 500		Osti	acoda	0.00	0.00	0.00	0.0
				W)	<i>7/2</i>	<u>;</u>	9	2/2	?	%/lin	Nac.		4 0)	8)	Dibel	thic	dra	es inso	"	9	<i>h</i> , ,	achyu,	To .	94	Tra (200)	·	·	Paracalanı	s spp.	0.00	0.00	0.00	3.3
											(na)					·							(larvae)		de			(n=1-tra Microsetel l	a spp.	0.00	0.00	0.00	
															1.	1												(n=1-tr Eurytemor	=4)				
														Pre	edicte	ed Val	lues											(n=1-train:	=1730)	0.00	0.00	0.00	
																												macro	avg	0.39	0.41	0.32	
																												weighted	avg	0.85	0.76	0.79	

Predictions of discarded taxa from training

	Acartia spp.	11.4% (n=876)	0.0%	0.1% (n=1)	
	Ascidiacea (larvae)	0.0% (n=1)	0.0%	0.1% (n=2)	
	Bivalvia (larvae)	0.0% (n=2)	0.0%	30.6% (n=558)	30
	Bryozoa (larvae)	2.3% (n=181)	8.7% (n=2)	6.0% (n=110)	
	Calanoida (ci-ciii)	34.6% (n=2667)	8.7% (n=2)	2.8% (n=51)	
	Centropages spp.	0.0% (n=1)	0.0%	0.0%	25
	Cirripedia (larvae)	0.8% (n=64)	0.0%	1.0% (n=19)	
_	Copepoda (nauplii)	5.2% (n=402)	13.0% (n=3)	26.4% (n=481)	
Predicted Taxa	Echinodermata (larvae)	0.1% (n=7)	0.0%	0.2% (n=3)	20
L pa	Evadne spp.	10.1% (n=778)	4.3% (n=1)	1.9% (n=35)	
licte	Fritillaria spp.	1.6% (n=126)	8.7% (n=2)	0.8% (n=15)	
rec	Gastropoda (larvae/Limacina)	0.5% (n=42)	4.3% (n=1)	13.4% (n=245)	15
<u> </u>	Harpacticoida- epibenthic	0.6% (n=49)	21.7% (n=5)	0.0%	
	Hydrozoa (medusa)	0.2% (n=13)	0.0%	2.0% (n=36)	
	Obelia spp. (medusa)	0.0% (n=2)	0.0%	0.0%	10
	Oithona spp.	16.4% (n=1261)	17.4% (n=4)	0.7% (n=13)	
	Podon/Pleopsis spp.	1.6% (n=127)	0.0%	12.8% (n=234)	_
	Polychaeta (larvae)	0.1% (n=6)	0.0%	0.6% (n=11)	5
	Pseudodiaptomus spp.	14.2% (n=1094)	13.0% (n=3)	0.4% (n=8)	
	Temora spp.	0.2% (n=12)	0.0%	0.0%	0
		Calanoida n≈>>11 (uni	$Cyclopoid_{a}$ (u _t	≥ooplankton (un	o (id)

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



