Use of SCN features: No

Max learning objects: 20000 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

	Classification Report Matrix
max	20000 learning objects per class

precision recall f1-score

	Confusion Matrix – In percent of Actual Value														max 20000 learning objects per class																
														•															precision	recall	f1-score
Acartia spp.	51%		<1%	<1%	25%	8%	3%	<1%		1%	<1%	<1% <	1% <	1% 1	1% <	<1% <	<1% 2	2% <1	%	<1%	<1%	<1%	<1%	4%		<1%	1%	Acartia sp (n=18062-train=2000	0.99	0.51	0.67
Bivalvia (larvae)		93%					<1%		4%			<1% <						<1% <1					<1%					Bivalvia (larva (n=7955-train=376	0.97	0.93	0.95
Copepoda (nauplii)			94%				% <1%		<1%			<1%		1%	,	1%		(1% 1%				<1%	<1%					Copepoda (naupli (n=2753-train=1155	0.78	0.94	0.85
Podon/Pleopsis spp.	_		13%		_		K <1%		8%	<1%		<1%		1%				1% 2%				_		<1%		<1%		Podon/Pleopsis sp). 0.02	0.67	0.74
Oithona spp.					82%		5%		4.0			<1% <				2%		1% 1%					<1%					(n=2715-train=734 Oithona sp	o. 0.20	0.82	0.44
Calanoida (ci-ciii)				3%			-		<1%			1%		0.		3%		1% 6%		-10		<1%	<1%				-10	(n=2572-train=588 Calanoida (ci-cii			
Pseudodiaptomus spp.		204			17%			60%	<1%	-10		<1%	I	%		<1%		2% 4%		<1%		204		2%			<1%	(n=1348-train=555	7) 0.22	0.34	0.27
Hydrozoa (medusa) stropoda (larvae/Limacina)			<1%					1%	6%	<1%		<1%			<	<1% <		5% <1 (1% <1		<1%		2%		<1%				Pseudodiaptomus sp (n=1059-train=211		0.60	0.47
Temora spp.		13/0		<1%			19%			28%	<1%			Δ	1% <	~1%		0% 5%		8%				4%		<1%	7%	Hydrozoa (medus (n=671-train=405	0.83	0.69	0.75
Bryozoa (larvae)	∠′0	<1%	24%								43%			1	110	170	1	<1		U/0			<1%	1,0		\1/0	2.0	Gastropoda (larvae/Limacina (n=629-train=327	0.40	0.64	0.49
Polychaeta (larvae)	<1%						2%			<1%		44%	<	1%		3%	-	7% 109				<1%			<1%	<1%		`). 0. 0.20	0.28	0.28
Ascidiacea (larvae)			0	3 0	4%		<1%						0%								<1%		2%		<1%			Bryozoa (larva	2) 0.26	0.43	0.39
Harpacticoida- epibenthic			5%		34%		5 9%			2%	<1%			5%	<	<1%	<	(1% <1	%	<1%		3%		3%			<1%	(n=247-train=114 Polychaeta (larva	e) 0.56	0.44	0.49
Centropages spp.					30%		2%			5%					1%			2% 2%						7%			2%	(n=237-train=157 Ascidiacea (larva	7) 0.50		
Echinodermata (larvae)			8%	11%		3%	3%								3	30%	1	6% 309	%									(n=194-train=86	0.93	0.90	0.92
Obelia spp. (medusa)				5%	24%			10%					5	5%		1	9% 2	4% 5%	ó			5%		5%				Harpacticoida- epibenth (n=108-train=55	0.09	0.25	0.14
Evadne spp.				6%	6%												7	5% 129	%									Centropages sp (n=44-train=362	0.02	0.11	0.04
Cirripedia (larvae)			38%	6%					6%		6%				(6%		389	%									Echinodermata (larva (n=37-train=304		0.30	0.07
Chaetognatha												3	3%						8%			31%	54%					Obelia spp. (medusa (n=21-train=100	n) 0.14	0.19	0.16
Pseudocalanus spp.	29%						14%			14%				14	4%					14%				14%				Evadne sp). 0.02	0.75	0.03
oda-non brachyura (larvae)																					100%							(n=16-train=1106 Cirripedia (larva	†) . \		
Fritillaria spp.																						67%	33%					(n=16-train=768	5) 0.01	0.38	0.03
Oikopleura spp.																						100%						Chaetognath (n=13-train=8	9) 1.00	0.08	0.14
Paracalanus spp.																											100%	Pseudocalanus sp (n=7-train=484	0.01	0.14	0.02
Osteichthyes (larvae)																					100%							Decapoda-non brachyura (larva (n=4-train=42	0.50	1.00	0.67
Decapoda–brachyura (zoeae)																										100%		Fritillaria sp (n=3-train=699	0.02	0.67	0.04
Eurytemora spp.	,									>	^					^		^ ^		100%	^			^		^		Oikopleura sp). 0.00	0.00	0.00
	Acartic	sival of sixal	Wia larvage	Dod Pode	On Pleops	ond Spp.	Anoida (ci	Modi.	Tozod (medi	Po. Cho!	Spp.	Polychaete (lange)	Scidiacea (lanae)	Arpactic	Chtrops	Schinoder, Des SPD. Henthic	belias	Nadne Sp. (medusa)	iripedia (lan	Stognatha	Decay ocalanus,	Pod Titill	Varia Oikol	Parace Neura Spp.	Osteich Stanus Spp.	hth och	Od Curytem	(n=2-train=530 Paracalanus sp). n. n.nn	0.00	0.00
		P	(larvage	a) (nat	iplin		9/01	Ciii)	mus (medi	1/3/10/		(larvae)	Mana	(laryan)	ida Es.	les "17.	Mala (S	(ned)	(lan	Vae,	"lanus	Sp.	bro Spp.	19/10	1115 500	1405 (16	brachy.	(n=1-train=161 Osteichthyes (larva	9) 0.00		
					9	1/2		J	500	9)	Bryoto Spp. Doctinact.	Ž	*9)	シ	~10	Schinoder, Senthic	an.	De Just	<i>'</i>			. D	Oikop brachyura				Curytemora Soda brachyura	(n=1-train=4	5) 0.00	0.00	0.00
											• •	(4)											,	(Ando)				Decapoda-brachyura (zoea (n=1-train=62	e) 3) 0.11	1.00	0.20
													Predi	cted \	Values	S												Eurytemora sp (n=1-train=181	0.00	0.00	0.00
																												macro av	g 0.35	0.47	0.33
																												weighted av	g 0.84	0.65	0.70

	Acartia spp.	4 1% (n=314)	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%	28.6% (n=522)				
	Bryozoa (larvae)	` ′	0.0%	17.4% (n=4)		0.0%	0.0%	7.0% (n=127)				
	Calanoida (ci-ciii)			0.0%	0.0%	0.0%	0.0%	1.5% (n=28)				
	Centropages spp.		0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.0%	8	80		
	Cirripedia (larvae)		28.6% (n=2)	4.3% (n=1)	100.0% (n=1)		0.0%	1.8% (n=32)				
	Copepoda (nauplii)	` ,	28.6% (n=2)	8.7% (n=2)	0.0%	0.0%	0.0%	25.7% (n=468)				
	Decapoda-brachyura (zoeae)		0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=1)				
	Echinodermata (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	0.8% (n=14)				
Taxa	Eurytemora spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6	60		
()	· · · · · · · · · · · · · · · · · · ·	7.6% (n=589)	0.0%	4.3% (n=1)	0.0%	0.0%	0.0%	1.5% (n=27)				
Predicted	Fritillaria spp.	0.7% (n=54)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.5% (n=9)				
dic	Gastropoda (larvae/Limacina)		14.3% (n=1)	0.0%	0.0%	0.0%	100.0% (n=	1) 12.5% (n=228)				
re	Harpacticoida- epibenthic	1.7% (n=132)	0.0%	39.1% (n=9)	0.0%	0.0%	0.0%	0.1% (n=2)		40		
	Hydrozoa (medusa)	0.2% (n=13)	0.0%	0.0%	0.0%	0.0%	0.0%	2.7% (n=50)	2	40		
	Obelia spp. (medusa)	0.0% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
	Oikopleura spp.	0.2% (n=17)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=6)				
	Oithona spp.	18.5% (n=1429)	0.0%	4.3% (n=1)	0.0%	0.0%	0.0%	0.3% (n=5)				
	Paracalanus spp.	0.8% (n=60)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		20		
	Podon/Pleopsis spp.	2.5% (n=190)	14.3% (n=1)	4.3% (n=1)	0.0%	0.0%	0.0%	14.7% (n=267)	4	20		
	Polychaeta (larvae)	1.0% (n=75)	0.0%	0.0%	0.0%	0.0%	0.0%	1.4% (n=25)				
	Pseudocalanus spp.	0.1% (n=5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
	Pseudodiaptomus spp.	16.7% (n=1287)	0.0%	17.4% (n=4)	0.0%	0.0%	0.0%	0.5% (n=9)				
	Temora spp.		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Λ		
		Calanoi	C_{nid}	Cyclope n≈23 (la _{rvae)}	Mi_{crose} $pid_{m{a}}$ (u_{nid})	$M_{on_{Str_l}}^{N_{on_{Str_l}}}$ e $tell_{ospp.}^{n > 2}$	O_{Strac}	$c_{od_{\mathbf{a}}}$ $c_{od_{\mathbf{a}}}$ $c_{od_{\mathbf{a}}}$ $c_{od_{\mathbf{a}}}$		0		
		$\eta = \gamma_{11}$	da (n.	a (lan 23)	Pida () 100s	etella ">2"Stri	illidas 15tra	coda n=1820 nki	on .			
		. /	(unid)	"Vae)	(Unid)	spp.	46	~	" (unid)			

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



