Use of SCN features: Yes

Actual Values

## Max learning objects: 5000 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 5000 learning objects per class

recall

0.40

f1-score

0.57

											Comi	uston	Mgft	ıx – ı	n per	cent	OI AC	lual	value	e													
Acartia can	40%		/10/	<1%	27%	5%	5%	<1%		2%	<1%		<1%	<1%	2%	<1%	<1%	3%	<1%	<1%	<1%	<1%	0%	<1%		<1%	<1%	<1%	0,		A	cartia spp.	precisi
Acartia spp.									402	∠′0				< 1/0	2′0	< 1/0	< 1/0				< 1/0		970	1/0		.1/0	_ 170	< 1/0	<u></u>		(n=18062-	train=5000) via (larvae)	0.99
Bivalvia (larvae)		93%						<1%			<1%		<1%			4.0			<1%			<1%									(n=7955-	train=3574)	0.97
Copepoda (nauplii)		2%	92%	1%		1%			<1%			<1%				<1%		<1%				<1%									(n=2753-	la (nauplii) train=5000)	0.79
Podon/Pleopsis spp.			12%					1%	10%			<1%		<1%			<1%		1%		<1%	<1%	<1%	<1%							Podon/Ple (n=2715-	e <b>opsis spp.</b> train=3541)	0.87
Oithona spp.	<1%		<1%	<1%	82%	7%	4%			<1%	<1%		<1%			<1%		1%	<1%	i		1%									Oi (n=2572-	ithona spp. train=4428)	0.25
Calanoida (ci-ciii)	<1%		3%	2%	17%	41%	13%	<1%	<1%	<1%	4%	<1%		3%		<1%		12%	1%			1%										ida (ci-ciii) train=1531)	0.30
Pseudodiaptomus spp.	1%		2%	<1%	22%	12%	54%		<1%	<1%	<1%			2%	<1%			4%	<1%	j			2%								Pseudodiap	, i	0.31
Hydrozoa (medusa)	1%	2%		5%	1%		<1%	73%	7%	<1%	<1%				<1%		2%	7%	<1%	j		<1%	<1%								Hydrozo	a (medusa)	0.84
Gastropoda (larvae/Limacina)		13%	7%	10%	<1%	<1%	<1%	1%	65%	<1%	<1%							<1%	<1%	i										Gastro	poda (larvae		0.37
Temora spp.	2%		2%	<1%	4%	8%	17%		<1%	33%	2%			<1%	8%	<1%		13%	<1%	<1%			5%		<	<1%					`	train=2871) emora spp.	
Bryozoa (larvae)		<1%	25%	20%	<1%	<1%			10%	<1%	41%	<1%		<1%				<1%				<1%									(n=308-	train=2199) oa (larvae)	0.19
Polychaeta (larvae)	<1%		19%	5%	<1%	5%	3%		2%		<1%	45%					<1%	10%	3%		<1%	2%		1%	<1%						(n=247	-train=973)	0.32
Ascidiacea (larvae)	1%				4%		1%						93%									<1%			<1%						(n=237)	eta (larvae) -train=464)	0.80
Harpacticoida- epibenthic	<1%		4%		36%	14%	13%			2%	<1%			19%				2%	<1%			3%	5%								Ascidiac (n=194	ea (larvae) -train=805)	0.94
Centropages spp.	25%				34%		2%			20%					14%								5%							Ha	rpacticoida- (n=108	epibenthic -train=372)	0.09
Echinodermata (larvae)			5%	8%	3%	27%	3%					5%				5%		35%	3%			3%						3%	á		Centro (n=44-	pages spp. train=3461)	0.02
Obelia spp. (medusa)	5%			5%	14%	5%		10%									33%	29%												1	Echinoderma (n=37	nta (larvae) -train=118)	0.09
Evadne spp.								6%		6%	6%							75%	6%												Obelia spp	· _	0.17
Cirripedia (larvae)			50%			6%			6%										38%												E	vadne spp. train=5000)	0.01
Pseudocalanus spp.	29%						14%			57%																					Cirriped	lia (larvae)	0.05
Decapoda-non brachyura (larvae)																					75%						25%	6			Pseudoca	-train=716) alanus spp.	0.00
Fritillaria spp.																						100%							D	)ecapoda-	n=7 non brachyu	-train=228) ura (larvae)	
Eurytemora spp.										100%																				·	(n=4)	-train=197) illaria spp.	0.23
Decapoda-brachyura (zoeae)																											100	%			(n=3-	train=2701)	0.02
Osteichthyes (larvae)																									100%						(n=1-	emora spp. train=1730)	0.00
Paracalanus spp.																							100%							Decap	oda-brachyı (n=1	ura (zoeae) -train=277)	0.00
	Acar	Sivali	Cope	Podo	Oitho	Calar	D Sell	Hydr	Cast	. Temo	Bryos	Polyce	Scidi	1/0/20	Centr	Chin	Obell	· Chad	Cirri	D Selve	J <sub>eco</sub>	Pritil	Cury	O <sub>R</sub> CO	Ostei	Parac	Calan Cal	bid Ton			Osteichthy (n=	es (larvae) 1-train=43)	0.25
	``	Six Sp.	Cope Cope	Podoli, (nau)	Oithol Pleopsis	70 SPD.	Poida (ci. c	Hydro Hodiaptomo	Tod (men	opoda (la		Polychiod (lande)	Retalla.	Harpa Cea (lan	Cticoida	Chine Sp.	Odermote	SDD. (12)		ibedia (land	ocalanus	Poda Pon	Curyn Aria Spp.	CMOTA SO	Oda brace	iles (1	Calanus Sp.	bidocera sp.	Tanus Spp.		Paraca (n=	alanus spp. 1-train=82)	0.00
			*5	ソーグ	Vii) S	500	Ć	Hydro Hodiaptoni	12 DD .	(150)	Styozo Rac/Linat	*%	1 1	de)	(de)	Chine Pibenthic	Obelle Odermata	(larvae)	edusa)	V	Per "	Pritille Poda Pon Spp.	brachyu,	<b>~</b> %	Osteichth Doda-brachyu	id (2)	1%. Pe)		~		Ca (n=0	alanus spptrain=109)	_
											. A.C.	inal				116							Ò	(lange)		OR OR	/				Labio	locera spp. -train=493)	_
														D !'	ا ا داده	/al								ツ				1	Extra training		To	rtanus spp.	_
														rredi	cted \	/alues												(	classes (n=0-train=111)  macro avg (corr)				
																															macro a	vg (com)	0.34

0.93 0.95 0.85 0.92 0.65 0.74 0.82 0.39 0.41 0.35 0.54 0.39 0.73 0.78 0.65 0.47 0.33 0.24 0.41 0.36 0.45 0.58 0.93 0.93 0.19 0.12 0.14 0.03 0.05 0.07 0.33 0.23 0.02 0.08 0.00 0.00 .23 0.35 0.75 0.03 0.02 00.0 0.00 0.00 0.40 1.00 0.00 0.00 0.0 0.49 0.34 weighted avg 0.84 0.61 0.65

f1-score

precision

recall

Relative Abundance of Top Taxonomic Instances per Sample



