Actual Values

Gulf Selected Samples prediction using all regions training set,
Use of SCN features: No

Learning with selected samples classes with no low global training instances, with extra regional training categories,
Max learning objects: Maximum objects/class
Strategy N° 8

Confusion Matrix – In percent of Actual Value

Classification Report Matrix max available learning objects per class

precision recall f1-score

	Confusion Matrix – In percent of Actual Value													max avaitable learning objects per class						ldSS																		
A	600		~ 10 ₄	<10,	170	60	20,	-10		< 10,	~ 10 <i>c</i>	-10 ₄	<10,	~ 10 ₄	< 10 _c	~10 ₄	<10	20,	~10 ₄		0, 11	0, 1	0, 1	0, 10,		-10		210	×10¢	1		Acartia spp	•	cision	recall	f1-score	ı	
Acartia spp.		0.00				6 6%								<1%	<1%	< 1%	<1%			<1	% <1			% 1%		<1%	5 < 1%	<1%	<1%		(1	n=18062-train=111319	9) 0.	0.98	0.68	0.80		
Bivalvia (larvae)													<1%	<1%		10		<1%					% <1									Bivalvia (larvae (n=7955-train=3764	4)).97	0.93	0.95		
Copepoda (nauplii)			93%			% <1%			<1%			<1%				1%		<1%				<1	% <1									Copepoda (nauplii (n=2753-train=11555	0).78	0.93	0.85		
Podon/Pleopsis spp.		3%						1%	8%	<1%								1%						% <1%	ó	<1%	S .					Podon/Pleopsis spp (n=2715-train=7347). ()	0.83	0.67	0.74		
Oithona spp.						4%							<1%			2%		1%					s <1									Oithona spp (n=2572-train=5881). ()	0.38	0.81	0.51		
Calanoida (ci-ciii)								<1%				1%		2%		3%		12%				<1	% <1	% <1%								Calanoida (ci-ciii (n=1348-train=5557	i) o).27	0.35	0.30		1.0
Pseudodiaptomus spp.						8%			<1%			<1%		<1%		<1%		2%		<1				<1%			<1%	5			F	Pseudodiaptomus spp (n=1059-train=2113). 0.).44	0.57	0.50		
Hydrozoa (medusa)						% <1%		69%	5%							<1%				<1	%	2%	5	<1%	ó							Hydrozoa (medusa	a) 0	0.83	0.69	0.76		
Gastropoda (larvae/Limacina)	<1%	13%							65%			<1%						<1%													Gastrop	(n=671-train=4052 oda (larvae/Limacina	2) a) 0	0.40	0.65	0.50		
Temora spp.	9%		2%	1%	4%	9%	17%		<1%	26%	<1%	2%			3%	<1%		10%	5%	7%	i i			1%		<1%	<1%	5			·	(n=629-train=3272 Temora spp	<u>-</u> 2)					
Bryozoa (larvae)		<1%	22%	20%	<1%	% <1%			7%		46%	2%							<1%				<1	%								(n=308-train=7347)	7) 0.).39	0.26	0.31		0.8
Polychaeta (larvae)	<1%		20%	5%	<1%	% 3%	2%		1%	<1%		45%		<1%		2%		7%	11%			<1	%		<1	% <1%	5					Bryozoa (larvae (n=247-train=1142	2)	0.38	0.46	0.42		
Ascidiacea (larvae)	3%				2%		<1%					2%	89%								<1	% 1%	5 2%	i	<1	%						Polychaeta (larvae (n=237-train=1577).58	0.45	0.51		
Harpacticoida- epibenthic	6%		5%		35%	12%	11%			2%	<1%			20%		<1%		3%	<1%	<1	%	2%	á	<1%	б							Ascidiacea (larvae (n=194-train=861	0	0.96	0.89	0.92		
Centropages spp.	61%				18%	6 5%				5%					9%				2%												Harp	oacticoida- epibenthio (n=108-train=555	c 0).14	0.20	0.16		
Echinodermata (larvae)			8%	11%		3%	3%									30%		16%	30%													Centropages spp (n=44-train=3620). ())	0.04	0.09	0.06		0.6
Obelia spp. (medusa)	5%			10%	24%	б		10%									19%	24%	5%			5%	á								E	chinodermata (larvae (n=37-train=3043	e) 0	0.04	0.30	0.07		
Evadne spp.	6%								6%									75%	12%													Obelia spp. (medusa	a) 0).27	0.19	0.22		
Cirripedia (larvae)			44%						6%		6%					6%			38%													(n=21-train=1003 Evadne spp).	0.02	0.75	0.03		
Chaetognatha													8%							8%		239	629	6								(n=16-train=11064 Cirripedia (larvae	†) 2) 0	0.01	0.38	0.03		
Pseudocalanus spp.	43%									14%					14%					299	6											(n=16-train=7685 Chaetognatha	5)					0.4
Decapoda-non brachyura (larvae)																					100)%										(n=13-train=89 Pseudocalanus spp	9) 1.	1.00	0.08	0.14		
Fritillaria spp.																						67 ⁹	33!	%								(n=7-train=4845	5) 0.	0.03	0.29	0.05		
Oikopleura spp.																						100	%								Decapoda-n	on brachyura (larvae (n=4-train=423).57	1.00	0.73		
Paracalanus spp.						100%																										Fritillaria spp (n=3-train=6992). 2) 0	0.02	0.67	0.04		
Osteichthyes (larvae)																					100)%										Oikopleura spp (n=2-train=5305). (5)	0.00	0.00	0.00		0.2
Decapoda-brachyura (zoeae)																										100%	б					Paracalanus spp (n=1-train=1619). 9)	0.00	0.00	0.00		
Eurytemora spp.																				100												Osteichthyes (larvae (n=1-train=45	e) 0	0.00	0.00	0.00		
	Acarric	Bival	Li. Cope	Do Podo	Oin	thona Spp.	no. Sel	Hodiapton	o Carl	Temoli Topoda (la.	Bry	Poly	Ascia	Harpal Acea (lane	Centro	Chinod Poloenthic	Obelia Sermata (le	Chadhe	Cirripa	Charles PS	Ochdocalar	acapo Ar	Tille Of	Sopleura St. Sura (lare	os Os	leichthyes	Cury	Tenora Sp. Achyura (Rocae)	abido Porto	Por	Decapo	da-brachyura (zoeae (n=1-train=628	2) 0	0.12	1.00	0.22		
	Ç	, 200 200	Via Para	Podo, nali		Mona Spp.	010/01	Adodiapton	Tod me	tropoda (la)	200	Roa Poly	Deta (lo	aced (19th	Ticoida	Chinod Pages Spp.	ermata.	DD (1)	100 M	Chaetognall	Na Calar	Mrs Marin	Ton p		Alanus	Spithyes	Coda br	Temora Sp.	abidoceta sp	Phis Spp.		Eurytemora spp). O.	0.00	0.00	0.00		
			•	9) ?	Plij	3/20			145 500.	1450)	rac/i	à	(e) *.	rae, h	Per S	Poibens		andel	Musa)	de		2/0	brach		λ.	<i>N</i> 0. '	(drude)	Chyura C	^	ý.		(n=1-train=1818 Calanus spp	0)	.00	0.00	0.00		0.0
											•	acinal				nic	,							"Allan	á			CORDE	V			(n=0-train=359 Labidocera spp	9)	_	_	_		
																									(6)				E	extra raining		(n=0-train=493	3)	_	_	-		
Predicted Values														lasses		Tortanus spp (n=0-train=203	5)	-	-	-																		
																																macro avg (corr	0.	0.37	0.47	0.35		
																																weighted avo	9 0).84	0.73	0.77		

		0.20	0.00	0.00	0.00	E0.00	0.00	0.00		100
	• •	9.3% (n=714)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.0%		
	Ascidiacea (larvae)		0.0%	0.0%	0.0%	0.0%	0.0%	0.1% (n=2)		
	Bivalvia (larvae)	0.0% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	28.7% (n=523)		
	Bryozoa (larvae)	2.1% (n=165)	0.0%	13.0% (n=3)	0.0%	0.0%	0.0%	7.2% (n=131)		
	Calanoida (ci-ciii)	28.9% (n=2232)	14.3% (n=1)	0.0%	0.0%	0.0%	0.0%	1.6% (n=29)		80
	Centropages spp.	0.0% (n=1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		00
	Cirripedia (larvae)	4.9% (n=375)	28.6% (n=2)	4.3% (n=1)	0.0%	0.0%	0.0%	2.0% (n=36)		
	Copepoda (nauplii)	5.0% (n=385)	28.6% (n=2)	8.7% (n=2)	0.0%	0.0%	0.0%	25.7% (n=469)		
	Echinodermata (larvae)	4.0% (n=308)	0.0%	0.0%	0.0%	0.0%	0.0%	0.8% (n=15)		
g	Eurytemora spp.	0.0% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		60
Тах	Evadne spp.	7.8% (n=605)	0.0%	4.3% (n=1)	0.0%	0.0%	0.0%	1.4% (n=26)		
Predicted Taxa	Fritillaria spp.	0.7% (n=54)	0.0%	0.0%	0.0%	50.0% (n=1)	0.0%	0.5% (n=10)		
icte	Gastropoda (larvae/Limacina)	0.6% (n=45)	14.3% (n=1)	0.0%	0.0%	0.0%	100.0%~(n =	1) 12.6% (n=230)		
eq	Harpacticoida- epibenthic	1.2% (n=93)	0.0%	26.1% (n=6)	0.0%	0.0%	0.0%	0.1% (n=1)		
P	Hydrozoa (medusa)	0.2% (n=14)	0.0%	0.0%	0.0%	0.0%	0.0%	2.6% (n=48)		40
	Obelia spp. (medusa)	0.0% (n=2)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Oikopleura spp.	0.1% (n=11)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3% (n=6)		
		16.0% (n=1235)	0.0%	17.4% (n=4)	100.0% (n=1	0.0%	0.0%	0.3% (n=6)		
	Paracalanus spp.	0.4% (n=28)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Podon/Pleopsis spp.	2.5% (n=192)	14.3% (n=1)	4.3% (n=1)	0.0%	0.0%	0.0%	14.2% (n=259)		20
	Polychaeta (larvae)	0.8% (n=62)	0.0%	0.0%	0.0%	0.0%	0.0%	1.3% (n=24)		
	Pseudocalanus spp.	0.1% (n=5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
	Pseudodiaptomus spp.	15.2% (n=1171)	0.0%	21.7% (n=5)	0.0%	0.0%	0.0%	0.4% (n=7)		
	Temora spp.	0.1% (n=8)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		•
			C_{Di} .	C_{tot}	$M_{i_{-}}$	M_{onstri} $\stackrel{N_{onstri}}{\stackrel{n_{>>}}{\sim}}$	0,,	≥00		0
		n=7711	Cnidari ida (unid)	Cyclopo n≥23 (larvae)	Mi_{cros} pid_{a} (u_{nid})	M_{onstri} Setell $_{oldsymbol{a}}$ Spp	O_{Stra}	$z_{ooplank}$	to.	
		- //	(unid)	"arvae)	(unid)	spp.	496	3<2	" (unid	7
					,				-/	

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample



