Use of SCN features: Yes

Actual Values

Max learning objects: 20000 objects/class Strategy N° 12

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

Confusion Matrix – In percent of Actual Value

Classification Report Matrix max 20000 learning objects per class

weighted avg

0.59

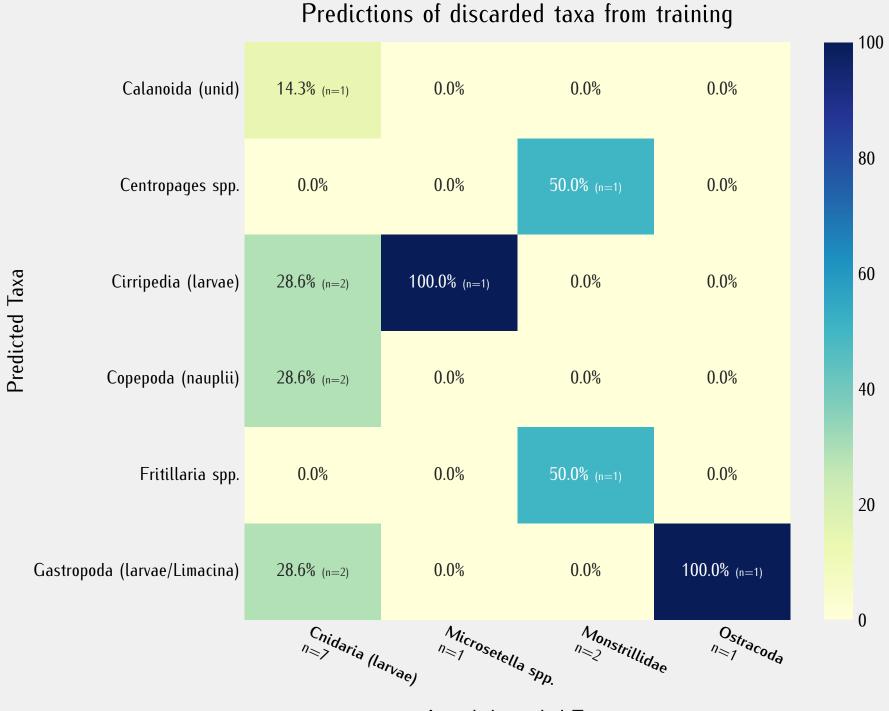
recall

precision

0.61

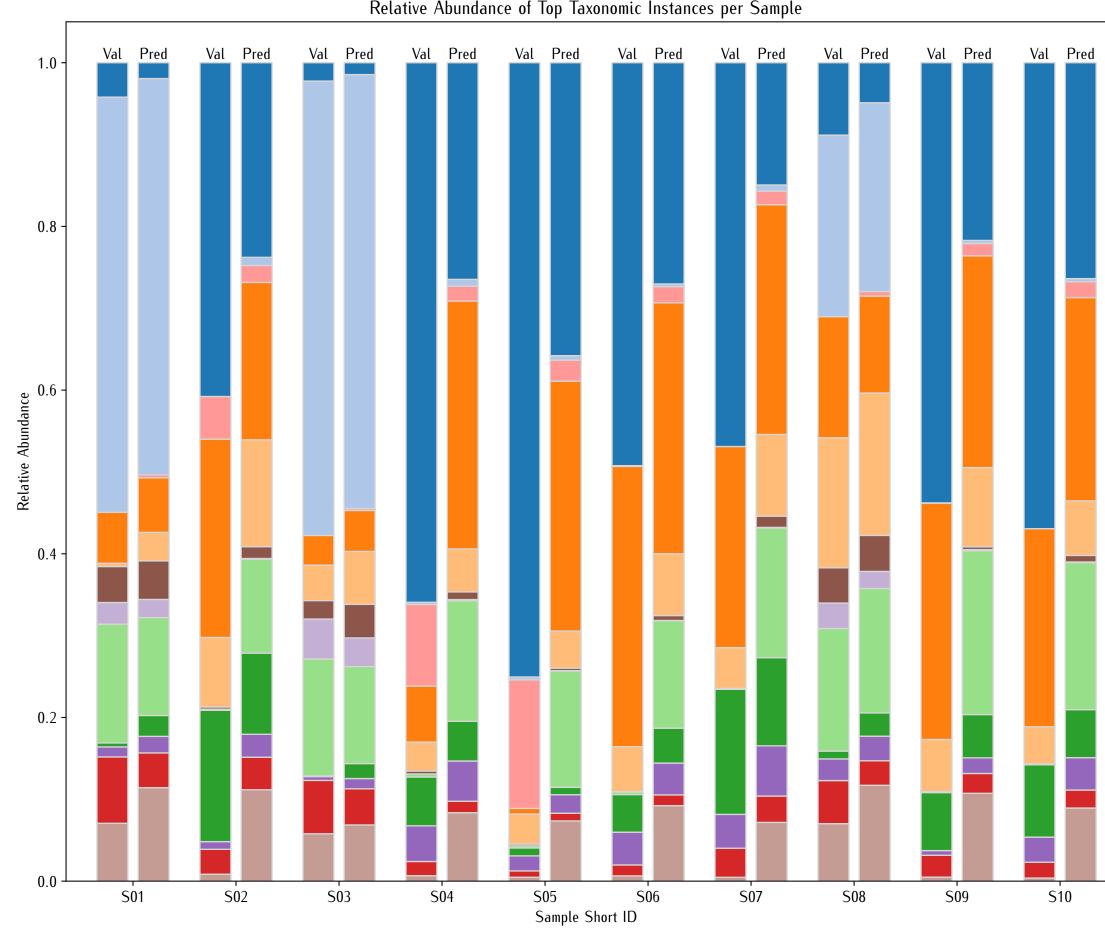
f1-score

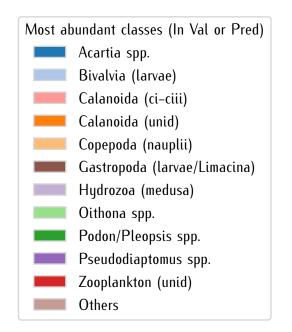
											Co	nfusion Ma	atrix – In	percent	t of A	ctual	Value	e							m	ax 20000	learning of	bjects per cla	ISS
																									Δ	precision	n recall	f1-score	
Acartia spp.	45%	2	21% <	1% <1	1% 2 <sup>-</sup>	1% <1	1% 2%	2%	<1%		1% <	(1% <1% <1%	% <1% 1%	<1% <	1% <19	1%	<1%	<1	1% <1%	<1% <1%	6	3% 1%	<1%		Acartia spp. (n=18062-train=20000)	0.98	0.45	0.61	
Bivalvia (larvae)		92% <	<1% 1	% <1	1%	3%	<1%	<1%	<1%	3%	<	<1%	ó	<	1%	<1%	<1%			<1% <1%	á				<b>Bivalvia (larvae)</b> (n=7955-train=3764)	0.93	0.92	0.92	
Calanoida (unid)	2% <	<1% 5	57% 5	5% 29	% 10	0% 2%	8 3%	7%	<1%	<1% <	<1% <	<1% <1% <1%	ó <1% <1%	2% <	1% <1%	5%	4%	<1	1%	<1% <1%	ś <	<1% <1	%		Calanoida (unid) (n=7711-train=20000)		0.57	0.51	
Copepoda (nauplii)		1% <	<1% 9	3% <1	1% <	1% 2%	6			<1%	<	<1% <1%		1%			1%			<1% <1%	á				Copepoda (nauplii)	0.63	0.93	0.75	
Podon/Pleopsis spp.	<1%	2% <	<1% 1	3% 63	8% <	1% 10	% <1%	6	<1%	7% <	<1%	<1% <1%				<1%	1%			<1%	á	<1	% <1%		(n=2753-train=11555)  Podon/Pleopsis spp	0.75	0.63	0.68	
Oithona spp.	<1%	1	3%   <	1% <1	1% 77	7% <1	%   <19	8 2%			<	<1%   <1%	<1%	1% <	1%	<1%	1%			<1%	á				(n=2715-train=7347) Oithona spp		0.77	0.42	
Zooplankton (unid)		19%	3% 2	1% 10	)% <	:1% 32	% <19	<1%	<1%	6%	2	2% <1% <1%	ó	<1%	<19	<1%	2%			<1%	á				(n=2572-train=5881) <b>Zooplankton (unid</b> )		_		1
Calanoida (ci-ciii)	<1%	6	51% 3	3% 29	% 8	3% 2%	% 3%	5%		<1%	<	<1% <1%	<1%	2% <	1%	7%	5%			<1%	á				(n=1822-train=6498)	0.42	0.32	0.37	
Pseudodiaptomus spp.	2%	1	17% 2	2% <1	1% 19	9% <1	% 2%	48%		<1%	<	<1% <1%	<1% <1%	<1% <	1%	2%	4%	<1	1%			2% <1	%		Calanoida (ci-ciii) (n=1348-train=5557)	0.05	0.03	0.04	
Hydrozoa (medusa)	<1%	2%	1% <	1% 69	% <	1% 3%	<1%	6	68%	5% <	<1% <	<1% <1%		<1%	<19	7%	<1%	<'	1%	1%	<	<1%			Pseudodiaptomus spp. (n=1059-train=2113)	0.34	0.48	0.40	
Gastropoda (larvae/Limacina)	<1%	12% <	<1% 7	<b>'</b> % 10	)% <	1% 5%	6		<1%	62%	<	<1% <1%				<1%	<1%								<b>Hydrozoa (medusa)</b> (n=671-train=4052)		0.68	0.77	
Temora spp.	4%	1	15% 2	2% <1	1% 4	1% <1	1% 4%	13%		<1% 2	26% <	<1% <1%	3%	<1%		9%	4%	9!	)%			4% 1%	б		Gastropoda (larvae/Limacina) (n=629-train=3272)		0.62	0.47	0
Bryozoa (larvae)	<	<1%	1% 2	5% 22	2%	9%	%			4% <	<1% 3	36% 2%					<1%			<1%					Temora spp. (n=308-train=7347)	. 0.27	0.26	0.27	
Polychaeta (larvae)	<1%		3% 2	3% 59	% <	1% 3%	% <1 <sup>9</sup>	8 2%		<1% <	<1% <	<1% 38%		3%		5%	14%		<1%	<1%	<1%		<1%		Bryozoa (larvae)	0.41	0.36	0.38	
Ascidiacea (larvae)	<1%	<	<1%		3	3%		<1%				2% 92%							<1%	<1% <1%	ó				(n=247-train=1142) Polychaeta (larvae)	)	0.38	0.45	
Harpacticoida- epibenthic	2%	2	27% 5	5%	35	5%	3%	3%		<	<1%		12%	<1% 5	%	2%	<1%	25	2%	<1%	<	<1% <1	%		(n=237-train=1577) Ascidiacea (larvae)				
Centropages spp.	32%				34	4%	7%				9%		11%									5% 2%	б		(n=194-train=861) Harpacticoida- epibenthic	0.97	0.92	0.94	
Echinodermata (larvae)			5% 5	5% 11	%			3%						22%		22%	32%								(n=108-train=555)	0.13	0.12	0.12	0
Cyclopoida (unid)		1	17%	)% 49	% 4	1%		13%			ţ	9%	17%	22	2%		4%								<b>Centropages spp</b> (n=44-train=3620)	0.02	0.11	0.04	
Obelia spp. (medusa)		1	10%	10	)% 14	4%			5%						29%	24%	5%					5%			Echinodermata (larvae) (n=37-train=3043)		0.22	0.04	
Evadne spp.			6%						6%							75%	12%								<b>Cyclopoida (unid)</b> (n=23-train=143)	0.07	0.22	0.11	
Cirripedia (larvae)			6% 4	4% 69	%									6%			38%								Obelia spp. (medusa) (n=21-train=1003)	0.27	0.29	0.28	
Chaetognatha					8	3%						8%								15% 69%					Evadne spp. (n=16-train=11064)	. 0.01	0.75	0.03	0
Pseudocalanus spp.	29%							14%		1	29%							29	9%						Cirripedia (larvae)	0.01	0.38	0.02	
Decapoda-non brachyura (larvae)																			100%						(n=16-train=7685) Chaetognatha	) 1 0.00	0.00	0.00	
Fritillaria spp.																				67% 33%					(n=13-train=89) Pseudocalanus spp	)			
Oikopleura spp.																				100%					(n=7-train=4845) Decapoda-non brachyura (larvae)	0.02	0.29	0.03	
Osteichthyes (larvae)																				100%	б				(n=4-train=423)	0.50	1.00	0.67	
Paracalanus spp.																						100	)%		Fritillaria spp. (n=3-train=6992)	0.01	0.67	0.03	0
Eurytemora spp.																		10	00%						<b>Oikopleura spp</b> (n=2-train=5305)	0.00	0.00	0.00	
Decapoda-brachyura (zoeae)																								100%	Osteichthyes (larvae) (n=1-train=45)		0.00	0.00	
	A <sub>Co</sub> ,	Bir	Color			Dizz d	in Go	A Se	4/4	Cac	Ten !	Brus Poli To	i Har Cen	Chi.	yc, 06	CV.	Cirri	Cho K	Se Dec	Ariza Oik	. O <sub>x</sub>	Par Ca	Un Dec	Cal Cabi Por	Paracalanus spp. (n=1-train=1619)	. 0.00	0.00	0.00	
	Acartia	Birdhia Spp.	Moio (la noio	Opepoda (unid)	01/2	10/00 ×	DANKTO,	noida (	dodian.	200 100	oda	Bryozoa Marvae	diaced licon	topage (hode	opoida in in		10 DE	Pedia lan	All Alar	Dolla Maria	ploura ch	Paracalant	Urytemore's	Poda brachi.	Furutemora snn	. 0.00	0.00	0.00	
		,	nae)	Copepoda (unid)	naupl	Dithona St.	Poplanktol	Anoida (Cunid)	Ciij	Castrope Omis Spp.	sa) lan	Bryozoa Varvae	Harpacticoide (lange)	Chinode, Spp.	Syclopoida (lan	unid)	Ine Ciripe (nedusa)	Redia (lange)	Selidocalanus	Sp brace	OSTRICH PORUTA SPO.	Slan		Sp. of achille Sp. 12	Decapoda-brachyura (zoeae)	0.00	0.00	0.00	0
						- · X	Y.			20.		Bryozoa (larvae)  Ade/linacina)	Harpacticoide (lange)	Chihic		30)	9)			Poda Non brach	YUTA (1	Ŷ	(4)	Poda brachyura (Rocae)	(n=1-train=628) Calanus spp.	) •			
												<i>'(4)</i>									(dry	シ			(n=0-train=359) Labidocera spp.	_	_	_	
													D J: 4	ا ۱/۰ ام										Extra training	(n=0-train=493)		_	-	
													Predicte	eu value	25									classes	(n=0-train=203)		-	-	
																									macro avg (corr)	0.30	0.40	0.30	
																									weighted ava	0.73	0.50	0.61	



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample





Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

