Use of SCN features: Yes

Max learning objects: 200 objects/class Strategy N° 12

Actual Values

## 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

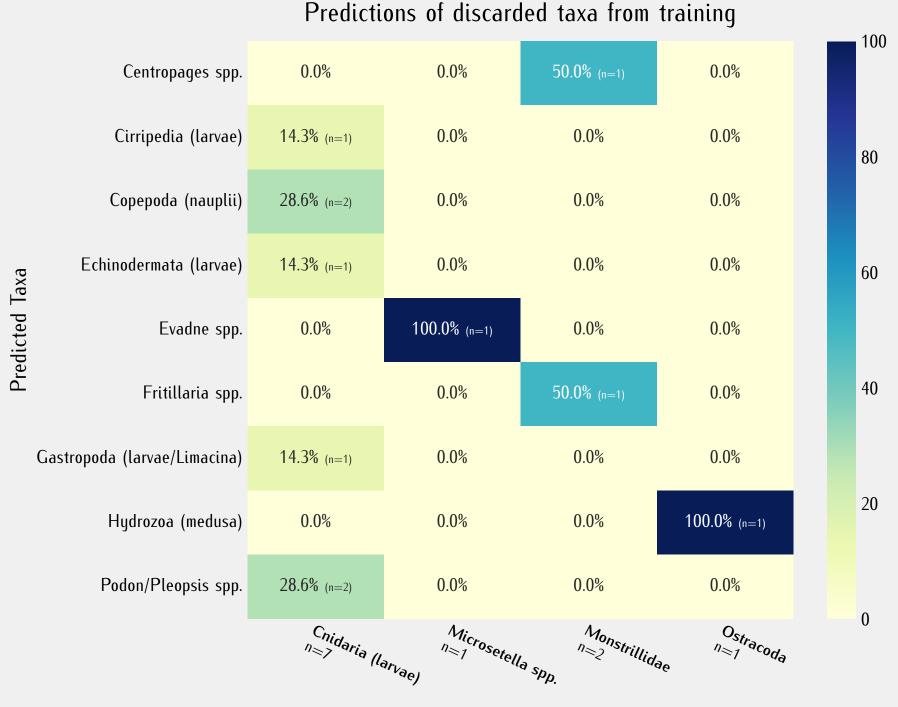
Classification Report Matrix max 200 learning objects per class

precision

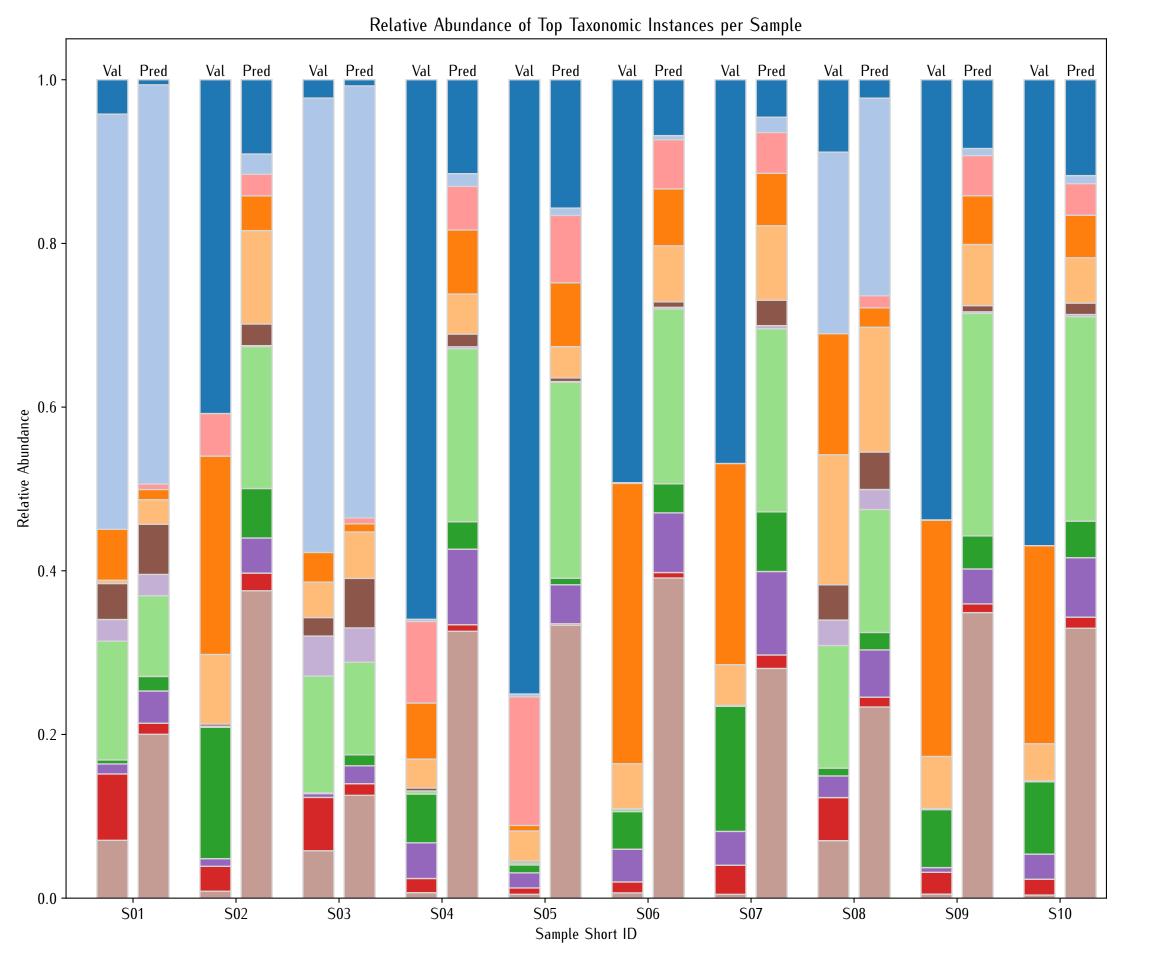
recall

f1-score

	Confusion Matrix – In percent of Actual Value														illax 200 tearning objects per ctass															
<b>.</b>	4.70		-0	4.0	40 20	20 40	40 4	. 40		10	40 40	4.0	20 20	4.0	4.0	4.0	20	4.0	40 4	0 40 4	10	440 420	4.0	40	4.0	Acartia spp.	precision	recall	f1-score	
Acartia spp.						3% <1%		% <1%					3% 2%			<1%		<1%		% <1% <1		11% 12%	<1%	<1%	1% 	(n=18062-train=200)	0.90	0.17	0.30	
Bivalvia (larvae)							5 < 1% <					<1%			<1%		<1%			<1% <1						Bivalvia (larvae) (n=7955-train=200)		0.89	0.89	
Calanoida (unid)								5% <1%										4%	<1%			2% <1%	6	<	<1%	Calanoida (unid) (n=7711-train=200)	0.45	0.13	0.20	
Copepoda (nauplii)		3% <		_		1% 1%			<1%		% <1%		<1%	3%	10%			<1%		<1						Copepoda (nauplii) (n=2753-train=200)	0.60	0.77	0.68	
Podon/Pleopsis spp.	6	5%	1	17% 41	%   <	1% 7%	<1% <	1% 2%	15% <1	1% 89	% <1%		<1%	<1%		<1%	<1%	<1%	<1	% <1	1%	<1% <1%	<1%			Podon/Pleopsis spp. (n=2715-train=200)	0.69	0.41	0.52	
Oithona spp.	<1%	3	3% <	<1% <	1% 69	9%	2% 7	%		<	1% <1%	<1%	7%	3%	5%		1%	<1%		<1% <1	1%	<1% <1%	6			Oithona spp.		0.69	0.30	
Zooplankton (unid)	3:	2% <	(1% 1	18% 7	% <	11%	<1% <	1% 2%	10%	12	2% 1%	<1%	<1%	1%	3%	<1%	<1%	1%		<1% <1	1%	<1% <1%	б			(n=2572-train=200) <b>Zooplankton (unid)</b>	0.34	0.11		1.0
Calanoida (ci-ciii)		10	6%	3% 3	% 8	3% <1%	13% 10	)%	<1%	59	% 2%	<1%	6%	6%	12%		9%	5%		1% <1	1%	<1%				(n=1822-train=200) Calanoida (ci-ciii)			0.16	
Pseudodiaptomus spp.	<1%	2	2% <	<1%   <	1% 1	7%	1% 45	5%	<1%	<	1% <1%		8% <1	% 3%	11%		3%	2%	<1%			2% <1%	ő	<	<1%	(n=1348-train=200)	0.10	0.13	0.11	
Hydrozoa (medusa)	<1% 3	3% <	(1%	4	% 1	<1%	i <	1% 68%	5%	39	% <1%	<1%	<1%	<1%		3%	6%	<1%	<1%	<1% <1	1%	3% <1%	6	<	<1%	Pseudodiaptomus spp. (n=1059-train=200)	0.17	0.45	0.25	
Gastropoda (larvae/Limacina)	1	6%	9	9% 10	)%	3%	<1% <	1% 2%	54%	35	% 1%		<1%				<1%	<1%				<1%				<b>Hydrozoa (medusa)</b> (n=671-train=200)		0.68	0.69	
Temora spp.	<1%	3	3% <	<1% <	1% 2	2%	<1% 18	3%	18	% 39	% 2%		2% 5%	2%	4%		8%	4%	13%			10% 3%	<1%	<	<1%	Gastropoda (larvae/Limacina) (n=629-train=200)	0.23	0.54	0.32	0.8
Bryozoa (larvae)	2	2%	2	22% 13	8% <	1% 8%		<1%	4%	46	5% 2%				<1%		<1%	<1%		<1%		<1%				Temora spp. (n=308-train=200)	0.36	0.18	0.24	
Polychaeta (larvae)	<1%	<	(1% 2	29% 5	% 2	2% 2%	<	1%	<1% <1	1% 39	% 23%		<1%	12%	4%	<1%	4%	11%	<1	% <1	1% <1%		<1%			Bryozoa (larvae) (n=247-train=200)	0.09	0.46	0.15	
Ascidiacea (larvae)	<1%				3	3%	<	1%		<	1% <1%	91%	1%						1%	<1% <1% <1	1% 2%					Polychaeta (larvae)	0.21	0.23	0.22	
Harpacticoida- epibenthic		4	1% <	<1%	19	9%	3% 6	%		25	% <1%		31%	3%	22%		2%	<1%	2%			3% 2%				(n=237-train=200) Ascidiacea (larvae)		0.91		
Centropages spp.	18%				43	3%			2%	%			2% 169	ó				2%				9% 2%			5%	(n=194-train=200) Harpacticoida- epibenthic	0.03		0.87	
Echinodermata (larvae)				3% 14	1% 3	3%	5	%		35	%			27%			16%	27%							3%	(n=108-train=200)	0.03	0.31	0.05	0.6
Cyclopoida (unid)		g	9%	4%	4	1%			4%					4%	74%											Centropages spp. (n=44-train=200)	0.02	0.16	0.04	
Obelia spp. (medusa)				5	% 14	4%		10%						5%	5%	24%	19%	14%				5%				Echinodermata (larvae) (n=37-train=200)	0.01	0.27	0.02	
Evadne spp.					6	5%		6%									69%	12%				6%				<b>Cyclopoida (unid)</b> (n=23-train=143)	0.01	0.74	0.02	
Cirripedia (larvae)			4	14%		6%			6%		19%			12%				12%								Obelia spp. (medusa) (n=21-train=200)	0.08	0.24	0.12	
Chaetognatha					8	3%						8%							23%	15% 38	8%					Evadne spp. (n=16-train=200)	0.01	0.69	0.02	0.4
Pseudocalanus spp.	29%								29	%									14%			14% 14%	í			Cirripedia (larvae) (n=16-train=200)	0.00	0.12	0.01	
Decapoda-non brachyura (larvae)																			75%	%	25%					Chaetognatha (n=13-train=89)	0.75	0.23	0.35	
Fritillaria spp.																				100%						Pseudocalanus spp.		0.14	0.01	
Oikopleura spp.																				100%						(n=7-train=200)  Decapoda-non brachyura (larvae)	0.11	0.75	0.19	
Osteichthyes (larvae)																			100%							(n=4-train=200) Fritillaria spp.				0.2
Paracalanus spp.																						100%				Fritillaria spp. (n=3-train=200) Oikopleura spp.		1.00	0.03	0.2
Eurytemora spp.																			100%							(n=2-train=200)	0.00	0.00	0.00	
Decapoda-brachyura (zoeae)																								100%		Osteichthyes (larvae) (n=1-train=45)		0.00	0.00	
	Acarr.	Sivelin	Calan	Copen	Odo,	Ditho Took	Of Calan	Sella Hya	Castro le	mor b.	Tyo Poly	Scid	Harps Co	The Chi	Gold Gold	Obel	CVag.	Circi	Charles De	Can Pritill	Thom Stel	Para Cur	De Car	Calan labid	Tortanus	Paracalanus spp. (n=1-train=200)	0.00	1.00	0.00	
	Acarria's	Sivalvia (	lan.	Copepode (unid)	1/2	Dithona Sp.	Plankton (unit	Ci. Odiapi	TOO (MO POOL		Pryozog Polye	ARTA (1	Harpactico	ide Dages	oderma	Obell Poids (b)	Spp.		Chaetognatha Dedia (lanae)	Porta Pria	Ostell Spp. Sp.	Paracalanus Op. Clary	Decap Spp. Spp.	od dis od	Portanus Spp.	Eurytemora spp. (n=1-train=200)	0.00	0.00	0.00	
			de	Copepode (unid)	" AUDI	Dithona Spp.	Unic	Ciii	Toda (medusa)	(Ara	%1.	des (16)	Harpactico	Dib		Obell Poids (1)	nid) "	medisa)	Chaetognatha De Cala (lange)	Spp. on bra	2, 2, 36.	Paracalanus Ob. Clarvae	%), %)	o. Ochyura		Decapoda-brachyura (zoeae) (n=1-train=200)	0.00	0.00	0.00	0.0
									Totos (nedusa)		Macin			Ċ,	Thic	Y.	シ	シ		Scapoda Por bra	Yura (la	5		Calanus Spp. Oda brachyura (20	Pede,	Calanus spp.	_	_	_	
											4)										97	(de)			Extra	(n=0-train=200) Labidocera spp.	_	_	_	
													Predic	ed Va	lues										training classes	(n=0-train=200) <b>Tortanus spp.</b>	_	_		
													Treute	cu va	iucs										Ciusses	(n=0-train=200)		-	-	
																										macro avg (corr)	0.25	0.40	0.22	
																										weighted avg	0.70	0.38	0.41	



Actual discarded Taxa





Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

