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° 12

Gulf Selected Samples prediction using all regions training set,
With Calanoida, Cyclopoida and Zooplankton classes in learning set

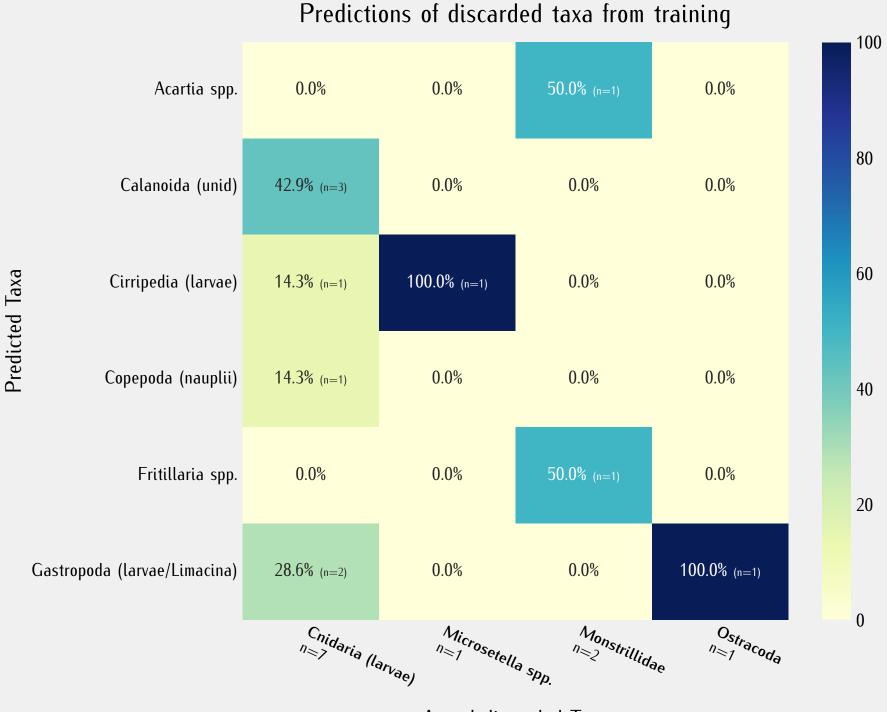
Confusion Matrix – In percent of Actual Value

Classification Report Matrix max available learning objects per class

precision recall

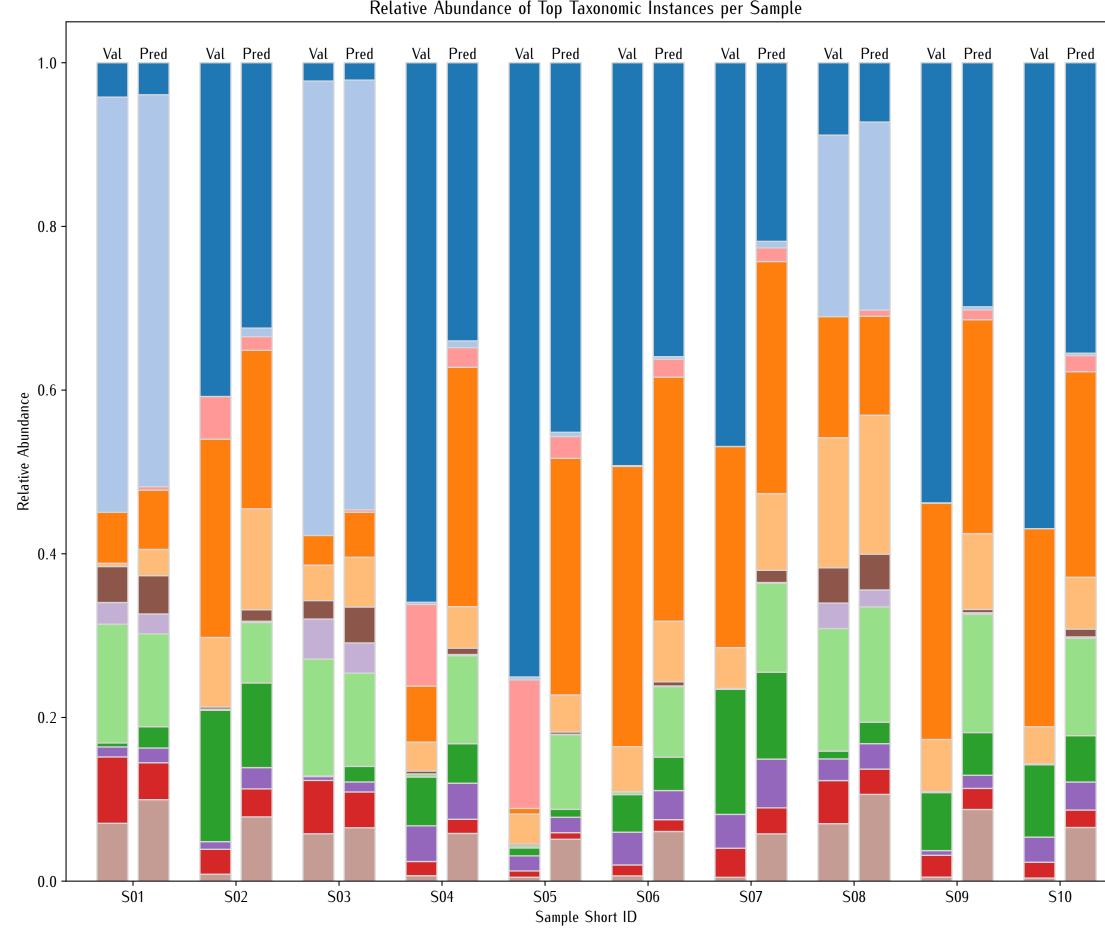
f1-score

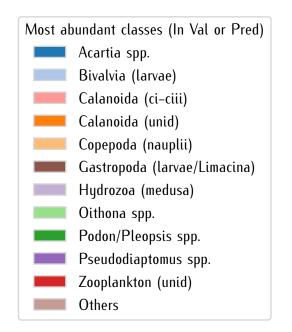
	Confusion Matrix – In percent of Actual Value													m	ax availa	ible lea	arning ob	jects per cla	ISS												
	- 00			10	10		10	20	10	4.0	40	40		40	10 10	4.0	40	10	40	40		40	4.0	10		Acartia sp	precis		recall	f1-score	
Acartia spp.									1% <					<1% <1%					<1%	<1% <	<1% <1%	<1%	6 <1%	<1% <	1% <1%	(n=18062-train=11131)	9) 0.90		0.59	0.73	
Bivalvia (larvae)						<1%					3%	<1%	<1%		<1%		<1% <				<1%					Bivalvia (larva (n=7955-train=376	4)	3	0.91	0.92	
Calanoida (unid)			_							<1%	<1% <1%	5 <1% <1	1% <1%	<1% <1%	2% <1%	<1%			<1%	<	<1% <1%	<1%	<1%			Calanoida (unio (n=7711-train=2350		,	0.59	0.52	
Copepoda (nauplii)	<	(1% <	.1% 9	2% <	1% <	<1%	2%	<1%	<1%		<1%	<1% <1	1%		1% <1%	ó	<	<1%		<	<1% <1%					Copepoda (naupli (n=2753-train=1155	ii) 0.66	5	0.92	0.77	
Podon/Pleopsis spp.	<1% 3	3% <	1% 1	2% 63	3% <	<1%	9%	<1%	<	<1%	7% <1%	2% <1	1%				<1%	1%			<1%	<1%	ó	<1%		Podon/Pleopsis sp	p. 0.75	5	0.63	0.68	
Oithona spp.	1%	14	4% <	<1% <	1%	76%		<1%	2%			<1% <1	1%	<1%	2% <1%	á	<1%	1%		<	<1% <1%					(n=2715-train=734 Oithona sp	p. 0.36	6	0.76	0.49	
Zooplankton (unid)	18	8% 3	3% 1	9% 10	0% <	<1% 3	33%	<1%	<1% <	<1%	7%	4% <1	1% <1%		<1% <1%	á	<1%	1%		<	<1% <1%			<1%		(n=2572-train=588 Zooplankton (uni	1) -1\				1.0
Calanoida (ci-ciii)	<1%	6	1% 3	3% 2	2%	6%	2%	5%	4% <	<1%	<1%	<1% <1	1%	<1%	2% <1%	ó	6%	5%		<	<1% <1%	<1%	ó			(n=1822-train=649 Calanoida (ci-cii	8) 0.44		0.33	0.38	
Pseudodiaptomus spp.	4%	19	9% 1	% <	.1%	15% <	<1%	3%	50%		<1%	<1%		<1% <1%	<1%	á	2%	4%	<1%			<1%	<1%			(n=1348-train=555	7))	0.05	0.07	
Hydrozoa (medusa)	1% 2	2% 2	2% <	1% 7	′% <	<1%	2%	<1%	6	88%	4% <1%	<1% <1%	1%		<1%	1%	5% <	<1%	<1%	i	1%	<1%	ó			Pseudodiaptomus sp (n=1059-train=211	p. 0.38	3	0.50	0.43	
Gastropoda (larvae/Limacina)	<1% 12	2% <	:1% 6	j% 11	1% <	<1%	5%	<1%	,	1%	62%	<1% <1	1%				<1% <	<1%								Hydrozoa (medus a (n=671-train=405		В	0.68	0.75	
Temora spp.	7%	10	6% 2	2% <	1%	3% <	<1%	5%	13%		<1% 27%	<1% <1	1%	2%			8%	4%	8%			<1%	<1%	<1%		Gastropoda (larvae/Limacina (n=629-train=327)		3	0.62	0.47	0.8
Bryozoa (larvae)	<	:1% 2	2% 2	22% 18	8%		7%				5%	43% 2%	%				<	<1%			<1%					Temora sp	p. 0.40	5	0.27	0.32	
Polychaeta (larvae)	<1%	4	4% 20	.0% 5	j% <	<1%	2%	<1%	2%		<1% <1%	s <1% 44	.%		3%		7%	11%		<	<1%	<1%		<1%		(n=308-train=734 Bryozoa (larva	e) 0.33	3	0.43	0.37	
Ascidiacea (larvae)	1%	1	1%			2%			<1%			29	89%							<1%	1% 3%	<1%				(n=247-train=114) Polychaeta (larva	2)				
Harpacticoida- epibenthic	5%	2!	25% 4	1%		30%		5%	4%		<1%	j		16%	<1% 6%		2% <	<1%	<1%	, <	<1%					(n=237-train=157 Ascidiacea (larva	7) 0.59		0.44	0.50	
Centropages spp.	50%	2	2%			27%		2%			5%			11%				2%								(n=194-train=86	1) 0.90		0.89	0.92	
Echinodermata (larvae)		3	3% 5	5% 11	1%			3%	3%						30%		16%	30%								Harpacticoida- epibenth (n=108-train=55		,	0.16	0.16	0.6
Cyclopoida (unid)		13	3% (9% 45	1%	4%			13%			13%		13%	26%			4%								Centropages sp (n=44-train=362		5	0.11	0.07	
Obelia spp. (medusa)	5%	5	5%	5	5% 1	19%		5%	1	0%					5%	19%	19%	5%			5%					Echinodermata (larva (n=37-train=304		3	0.30	0.06	
Evadne spp.			2%									6%					69%	12%								Cyclopoida (unio (n=23-train=14	d) 0.07	7	0.26	0.11	
Cirripedia (larvae)				4% 69	5%						6%				6%			31%								Obelia spp. (medusa	a) 0.22	2	0.19	0.21	
Chaetognatha													8%						3%		23% 62%					(n=21-train=100 Evadne sp) p. _{0.01}		0.69	0.03	0.4
Pseudocalanus spp.	43%							14%			14%			14%					14%							(n=16-train=1106 Cirripedia (larva	4) o)				0.1
Decapoda-non brachyura (larvae)																				100%						(n=16-train=768 Chaetognat h	5) 0.01		0.31	0.01	
Fritillaria spp.																					67% 33%					(n=13-train=8)	9)		0.08	0.14	
Oikopleura spp.																				1	00%					Pseudocalanus sp (n=7-train=484	5) 0.01	i	0.14	0.02	
Osteichthyes (larvae)																				100%						Decapoda-non brachyura (larva (n=4-train=42	e) 3) 0.57		1.00	0.73	
Paracalanus spp.																				100%			100%			Fritillaria sp (n=3-train=699	p. 0.02	2	0.67	0.03	0.2
																			100%	,			100/0			Oikopleura sp (n=2-train=530	p.	J	0.00	0.00	
Eurytemora spp.																			100%					100%		Osteichthyes (larva	e) 0.00	0	0.00	0.00	
Decapoda-brachyura (zoeae)	A A	♦. /			A	0			\Diamond	<i>.</i>	\sim) 4	<i>k</i> , 0	△	0.	<u> </u>	<u> </u>	O. Ø		△	0 8		100%		(n=1-train=4. Paracalanus sp) D				
	Acartia S	ivalvia	Calanoide (larvae)	Copepoda (unid)	odon	Oithond Pleopsis	2000/0	Alan.	Pseudodi Cicilodi (unid)	Tydro.	Castropoda (nedusa)	Bryozoa (1)	Olychaeta (lange)	Harpacticoide Andel Candel	Chinoderno opages Spp. Chibenthi	Opoi bel	is sp. (ne	Triped	Chaetognathe	Decapo	Titillari Thop	Osteichthyes Aleura Spp. Alarvae)	Calonis S.	Decapode	alanus Sp. Portant Sp.	(n=1-train=161) Eurytemora sp (n=1-train=181)	9) 0.00		0.00	0.00	
	*	00.	Janas Je	Unice	(nau	leops is	500	Ton	(4) (Ci.C.	Pon.	n. medi.	Car Co	Anal (oid (lan)	e ges crina		PD. (M		delan athe	o danus	10, 10, 500	To Spp	5/6 5/		brack to sp	n=1-train=181	8))	0.00	0.00	
				シ	~	(lij)	500		My M		2500 28)	dellin	<i>9</i>	de de	Pibonzz	lary	(V) (e)	dusal	%)		Spp. Orachy	V.	drage	<i>X</i> , -3.	"Yura (2	Decapoda-brachyura (zoea (n=1-train=62	8))	1.00	0.18	0.0
												'acij	Pa)		Tic							a (lan			Oede)	Calanus sp (n=0-train=35	p. 9)		-	-	
																						90)			Ex	tra Labidocera sp	p. –		_	-	
														Predicte	d Values											Tortanus sp	p.		_	_	
																										(n=0-train=20 macro avg (cor		5	0.44	0.33	
																											,				
																										weighted av	g 0.74	1	0.64	0.67	



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample





Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

