Use of SCN features: Yes

Max learning objects: 5000 objects/class Strategy N° 9

Actual Values

Gulf Selected Samples prediction using Gulf training set, Learning with all classes present in the selected samples, with extra training categories, With Calanoida, Cyclopoida, NO Zooplankton classes in learning set

Confusion Matrix - In percent of Actual Value

Classification Report Matrix max 5000 learning objects per class

precision

f1-score

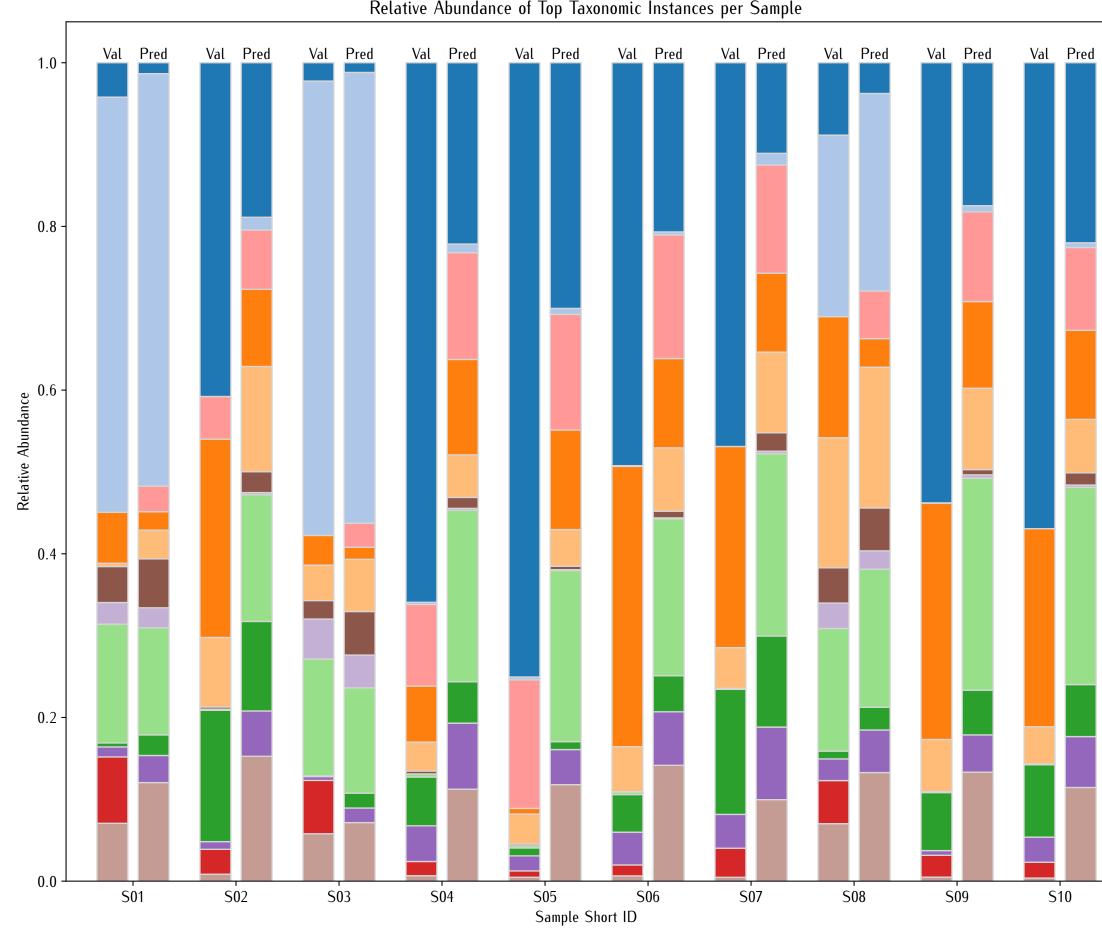
	Confusion Matrix – In percent of Actual Value														max	nax 5000 learning objects per class															
																												precision	recall	f1-score	
Acartia spp. 36%		12% <	<1% <	1% 29)% 49	% 4%	<1%	<1%	2% <1%	<1%	<1%	2%	<1% <	<1% 2%	<1%		<1%	<1% <19	%		<1% <1	1%	8% <1%	% <	1%	Acartia n=18062-train=5)		0.98	0.36	0.53	
Bivalvia (larvae)	93%	<1%	<1% <	(1% <1	1% <1	1% <1%	<1%	4%	<1%	<1%			<1%	<1%	<1%			<19	%							Bivalvia (lar (n=7955-train=3	vae)	0.97	0.93	0.95	
Calanoida (unid) 1%	<1%	16% 5	5%	1% 17	' % 34	12%	<1%	<1%	<1% 2%	<1% <1%	<1% <	<1% <1	% <1% <	<1% 7%	1%		<1%	2%	5				<1%			Calanoida (u	ınid)	0.32	0.16	0.21	
Copepoda (nauplii)	2%	<1% 92	2%	1% <1	1% <1	1% <1%	ó	<1%	1%	<1%		<1	%	<1%	6 1%			<19	%							(n=7711-train=5 Copepoda (nau	ıplii) 📉	0.71	0.92	0.80	
Podon/Pleopsis spp.	3%	<1% 13	3% 6	5% <1	1% <1	1% <1%	6 1%	10%	<1% 3%	<1%				2%	1%			<1% <19	%		<1	1%	<1%			(n=2753-train=5 Podon/Pleopsis	5000)	_			
Oithona spp. <1%		2% <	<1% <	1% 81	% 69	% 4%			<1% <1%	<1% <1%	2% <	<1% <1	% <1%	1%	<1%			1%	s <1%							(n=2715-train=3)	3541)	0.83	0.65	0.73	
Calanoida (ci-ciii)		16% 3	3% 2	2% 12	2% 39	0% 10%	<1%	<1%	2%	<1%	2%		<1%	10%	1%			1%	i							Oithona (n=2572-train=4	1428)	0.23	0.81	0.36	
Pseudodiaptomus spp. <1%		4% 2	2% <	(1% 21	% 11	% 5 4%	5	<1%	<1% <1%		<1% <	<1%	<1%	3%	<1%			<19	%				1%			Calanoida (ci- (n=1348-train=1		0.12	0.39	0.19	1
Hydrozoa (medusa) 1%	2%	2%	4	1% 19	%	<1%	6 73%	6%	<1% <1%		<	<1%		2% 6%	<1%			<19	%				<1%			Pseudodiaptomus (n=1059-train=2		0.23	0.54	0.32	
Gastropoda (larvae/Limacina)	14%	<1% 7	7% 1	0% <1	1% <1	1% <1%	6 1%	66%	<1% <1%					<1%	6 <1%											Hydrozoa (med (n=671-train=3	lusa)	0.83	0.73	0.78	
Temora spp. 3%		8% 2	2% <	(1% 6%	% 89	% 14%	,	<1%	34% <1%		<1%	8%		11%	<1%						<1	1%	4%			Gastropoda (larvae/Limac	cina)	0.37	0.66	0.47	
	<1%			9% <1					<1% 43%		<1%			<1%				<19	%							(n=629-train=2 Temora	,	_			
Polychaeta (larvae) <1%		<1% 20						2%			<1%		<1% <	<1% 9%				<1% 3%		<1%	<1	1%				(n=308-train=2 Bryozoa (la r	2199)	0.19	0.34	0.25	
Ascidiacea (larvae) <1%		<1%		49		1%				93%								<19		<1%						(n=247-train=	=973)	0.26	0.43	0.32	0
Harpacticoida- epibenthic <1%		6% 4	1%			1% 8%			2% <1%		16%		3%	2%				<1% 4%					4%			Polychaeta (lar (n=237-train=	=464)	0.73	0.46	0.56	
Centropages spp. 25%		2%	1.0	34	1%	0.0			16%			16%	3.0	2.0			2%	110					5%			Ascidiacea (lar (n=194-train=	vae) =805)	0.94	0.93	0.94	
Echinodermata (larvae)			5% {	30/ 30	2/ 2/1	1% 5%			3%	3%		5%	,	35%	5%		270	3%					3/0			Harpacticoida- epiben (n=108-train=	nthic	0.07	0.16	0.09	
,		9% 9				% 13%		4%	9%	J/0	9%	J/	26%	4%				9%								Centropages	spp.	0.02	0.16	0.03	
Cyclopoida (unid)		9/0 9						4/0	9/0		9/0							9%					E0 ₄			(n=44-train=3 Echinodermata (lar	vae)	0.08	0.05	0.06	
Obelia spp. (medusa)		COv		5% 14	1% D	%	10%		COV				3	33% 29%									5%			(n=37-train= Cyclopoida (u	,				0
Evadne spp.		6%	00.			0.	6%	C0.	6%					75%	6%											(n=23-train=	=64)	0.10	0.26	0.15	
Cirripedia (larvae)		50	0%		69	%		6%		1=0					38%	20		2.10		000						Obelia spp. (medon) (n=21-train=	=952)	0.15	0.33	0.21	
Chaetognatha 8%				89						15%						8%		31%	8%	23%						Evadne (n=16-train=5	spp. 5000)	0.01	0.75	0.02	
Cnidaria (larvae)		29	9% 1	4%	29										14%	14	-%									Cirripedia (lar (n=16-train=		0.03	0.38	0.05	
Pseudocalanus spp. 29%						14%	i		57%																	Chaetogna (n=13-train=	atha 🗾	1.00	0.08	0.14	
Decapoda-non brachyura (larvae)																		75%						25%		Cnidaria (lar	vae)	1.00	0.14	0.25	0
Fritillaria spp.				33	3%													67%	6							(n=7-train= Pseudocalanus		0.00	0.00		
Oikopleura spp.																		1009	%							(n=7-train= Decapoda-non brachyura (lar	,			0.00	
Monstrillidae											Ę	50%								50%						(n=4-train=	-19 7)	0.20	0.75	0.32	
Osteichthyes (larvae)																								100%		Fritillaria (n=3-train=2	2701)	0.01	0.67	0.01	
Ostracoda								100%																		Oikopleura (n=2-train=	spp. =37)	0.00	0.00	0.00	
Paracalanus spp.																							100%			Monstrill i (n=2-train=		1.00	0.50	0.67	0
Decapoda-brachyura (zoeae)																								100%		Osteichthyes (lar	vae)	0.00	0.00	0.00	
Microsetella spp.				100	0%																					(n=1-train= Ostrac	coda	0.00	0.00	0.00	
Eurytemora spp.									100%																	(n=1-trair Paracalanus	•	0.00	0.00	0.00	
Acarx	Bival	Calar	Cope.	Solo. C	Ditho C	ala se	y Hydr	Cost	Temo Bryo	Poly Ascir	1/9/10	Cenz Co	his Gold	Obeli Cra	or Cirri	Charle	nig Seu-	Deca An	itill Oito	Mono Ostoi	OSTE PARA	Dec Mic	Curus Coll	a labia	Orgo.	1. 1	=82)				
Acartic		Calanoid (larvae)	. DO		ithona s	Sprida		200 (A)	Chora Sp.	Polychaeta (NOCO (Ticoja o	"loderm	Obelia Sp.	dhe Spp.	Chaetogn	nidaria (lan	ocalar poda	idrid So	Monstrillidae	Ostracoda da la	Poda	Surytemora	Anus Spp.	Ortanus Spp.	(n=1-train=	=277)	0.00	0.00	0.00	
	•	Colonoid (lorve)) anic	Sodon/Pl	in s	alanoida /	Alydro (ci. ciii)	MIS	Penora Sp. Polisa)	Polychaeta (Anae)	Marpac Marca (la)	raes &	hinodernata es spp. hibenthi	Obelia Sp. (land) (land)	mediso	Chaetognedia (larvae	% *1} ?∕	Decapoda Spl	On bran	S John Le	Ostracoda Paracolar (larvae)	<i>S</i> 20.	achyu Spp.	200 X	DD. D.	(n=1-trair	n=4)	0.00	0.00	0.00	0
					<i>,</i>	· Þ.		%		Polychaeta (limacina)	ソ		hinodernata pibenthic	Nac)	30	<i></i>		~		lura .	4 0)		Surytemore Society Sp.			Eurytemora (n=1-train=1	1730)	0.00	0.00	0.00	
										(Na)			· ·							Monstrillidae			Ç	(e)		Calanus (n=0-train=	spp. -109)	-	-	-	
																				9					Extra training	Labidocera	spp.	_	_	_	
													Predicte	ed Valu	ies										classes	(n=0-train=	spp.	_	_	_	
																										(n=0-train=			0 27	0.20	
																										macro avg (co		0.33	0.37	0.28	
																										weighted a	avg	0.73	0.51	0.55	

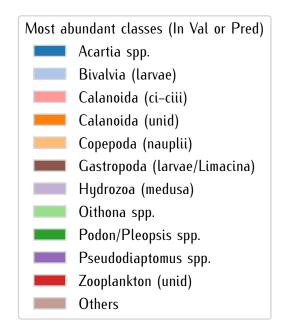
Predictions of discarded taxa from training

	Ascidiacea (larvae)	0.1% (n=2)	
	Bivalvia (larvae)	31.8% (n=579)	30
	Bryozoa (larvae)	7.3% (n=133)	
	Calanoida (ci-ciii)	2.7% (n=50)	25
	Calanoida (unid)	0.8% (n=14)	25
	Cirripedia (larvae)	1.2% (n=22)	
	Copepoda (nauplii)	23.0% (n=419)	20
Predicted Taxa	Echinodermata (larvae)	0.1% (n=1)	
	Evadne spp.	1.3% (n=23)	
dicte	Fritillaria spp.	0.9% (n=17)	15
Pre	Gastropoda (larvae/Limacina)	14.5% (n=264)	
	Hydrozoa (medusa)	1.8% (n=33)	
	Obelia spp. (medusa)	0.1% (n=1)	10
	Oithona spp.	0.7% (n=12)	
	Podon/Pleopsis spp.	12.7% (n=232)	
	Polychaeta (larvae)	0.7% (n=12)	5
	Pseudodiaptomus spp.	0.4% (n=7)	
	Temora spp.	0.1% (n=1)	

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample





Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

