Use of SCN features: No

Max learning objects: Maximum objects/class Strategy N° 1

Actual Values

NL 2020 Selected Samples prediction using NL 2020 training set, Learning with all classes present in the selected samples, no extra training categories, No Anthoathecata, Calanoida, Copepoda, Zooplankton classes in learning set

Confusion Matrix - In percent of Actual Value

										Comu.	Ston IV	יום נו נא	111	percer	it OI /	widat	vatue	•							
Temora spp.	61%	10%	5%	20%		<1%			3%				<1%					<1%	<1%					2%	
Acartia spp.	26%	54%	2%	13%		<1%			3%				<1%					<1%	<1%					<1%	
Evadne spp.	1%	<1%	94%	<1%		2%		<1%	<1%	<1%									<1%					<1%	
Pseudocalanus spp.	32%	15%	<1%	51%		<1%			<1%				<1%	<1%				<1%	<1%					<1%	
Centropages spp.	25%	64%		4%	5%								<1%										<1%		
Podon/Pleopsis spp.	24%	<1%	14%	4%		13%			<1%					<1%					<1%					42%	
Eurytemora spp.	33%	12%	10%	17%		<1%			21%				3%						<1%					3%	
Gastropoda (larvae/Limacina)			10%			30%		32%		12%														15%	
Oithona spp.		5%	4%						88%				1%					1%						1%	
Bivalvia (larvae)								10%		90%															
Oikopleura spp.	1%	1%									69%			1%	3%			24%							
Hydrozoa (medusa)	5%		12%									8%		2%			30%	3%					22%	19%	
Harpacticoida- epibenthic	12%	16%	2%	30%					4%				36%												
Calanus spp.				16%										80%						4%					
Chaetognatha				7%											60%										33%
Chiridius spp.				71%										29%											
Aglantha spp. (medusa)												20%		10%			50%						20%		
Fritillaria spp.									29%									71%							
Echinodermata (larvae)			20%			20%			40%									20%							
Metridia spp.				50%										50%											
Decapoda-non brachyura (larvae)														100%											
Cnidaria (larvae)	50%																		50%						
Obelia spp. (medusa)																						1	100%		
Polychaeta (larvae)				100%																					
Amphipoda														100%											
Tomopteris spp.											100%														
	Temore.	Acarre Spp.	SPD.	PSello Spp.	Centro Centro	Podoli, Dages SPD.	Curytel, Pleopsis St.	Castrol Mora Spp.	Oithold Cond	Bivalle Spp. Selinacine	Oikopi (larve)	Hydro, Spp.	Harpal Medus	Calante Calante	Chaeles Sp. Sp. Spibenthic	Chirial of the state of the sta	Aglann Spp.	Pritillal Sp. (me	Schinol (id SPD:	Netrico (Decapoda Spp.	Chidaria Inon brach	Obelias, Mura Clara	Polyche (medi	Amphipoda Ponop
												P	redicte	d Valu	les										

Classification Report Matrix

max	Classification Report Matrix x available learning objects per class									
	precision	recall	f1-score							
Temora spp. (n=18103-train=5148)	0.70	0.61	0.65							
Acartia spp. (n=13302-train=5448)	0.74	0.54	0.63							
Evadne spp. (n=5228-train=2845)	0.80	0.94	0.87							
Pseudocalanus spp. (n=3053-train=4552)	0.23	0.51	0.31							
Centropages spp. (n=330-train=40)	1.00	0.05	0.10	1.0						
Podon/Pleopsis spp. (n=253-train=201)	0.13	0.13	0.13							
Eurytemora spp. (n=178-train=88)	0.00	0.00	0.00							
Gastropoda (larvae/Limacina) (n=112-train=110)	0.55	0.32	0.41							
Oithona spp. (n=98-train=1409)	0.08	0.88	0.14	0.8						
Bivalvia (larvae) (n=92-train=71)	0.79	0.90	0.84							
Oikopleura spp. (n=70-train=761)	0.98	0.69	0.81							
Hydrozoa (medusa) (n=64-train=21)	0.71	0.08	0.14							
Harpacticoida- epibenthic (n=50-train=136)	0.10	0.36	0.16	0.6						
Calanus spp. (n=25-train=213)	0.61	0.80	0.69							
Chaetognatha (n=15-train=67)	0.82	0.60	0.69							
Chiridius spp. (n=14-train=1)	0.00	0.00	0.00	0.4						
Aglantha spp. (medusa) (n=10-train=21)	0.21	0.50	0.29	O.						
Fritillaria spp. (n=7-train=3447)	0.05	0.71	0.09							
Echinodermata (larvae) (n=5-train=276)	0.00	0.00	0.00							
Metridia spp. (n=2-train=15)	0.00	0.00	0.00	0.2						
ecapoda-non brachyura (larvae) (n=2-train=7)	0.00	0.00	0.00							
Cnidaria (larvae) (n=2-train=3)	0.00	0.00	0.00							
Obelia spp. (medusa) (n=1-train=43)	0.06	1.00	0.11							
Polychaeta (larvae) (n=1-train=452)	0.00	0.00	0.00	0.0						
Amphipoda (n=1-train=1)	0.00	0.00	0.00							
Tomopteris spp. (n=1-train=1)	0.00	0.00	0.00							
macro avg	0.33	0.37	0.27							
weighted avg	0.69	0.61	0.63							

precision recall f1-score

Predictions of discarded taxa from training

	Acartia spp.	0.0%	6.2% (n=2)	14.0% (n=638)	4.4% (n=49)		
	Aglantha spp. (medusa)	33.3% (n=2)	0.0%	0.0%	0.0%		
	Bivalvia (larvae)	0.0%	0.0%	0.0%	7.2% (n=81)		
	Calanus spp.	0.0%	0.0%	0.0% (n=2)	0.0%		
	Echinodermata (larvae)	0.0%	0.0%	0.3% (n=15)	1.0% (n=11)		
	Evadne spp.	0.0%	0.0%	18.7% (n=853)	49.1% (n=551)		
Э	Fritillaria spp.	16.7% (n=1)	0.0%	0.4% (n=19)	0.9% (n=10)		
Таха	Gastropoda (larvae/Limacina)	0.0%	0.0%	0.1% (n=3)	5.7% (n=64)		
cted	Harpacticoida- epibenthic	0.0%	0.0%	1.0% (n=46)	0.2% (n=2)		
Predicted	Hydrozoa (medusa)	16.7% (n=1)	0.0%	0.0%	0.0%		
Б	Obelia spp. (medusa)	33.3% (n=2)	0.0%	0.0%	0.0%		
	Oikopleura spp.	0.0%	0.0%	0.0%	0.4% (n=4)		
	Oithona spp.	0.0%	0.0%	13.4% (n=613)	2.8% (n=31)		
	Podon/Pleopsis spp.	0.0%	0.0%	2.3% (n=104)	15.2% (n=171)		
	Polychaeta (larvae)	0.0%	0.0%	5.3% (n=240)	9.3% (n=104)		
	Pseudocalanus spp.	0.0%	87.5% (n=28)	18.4% (n=841)	1.2% (n=13)		
	Temora spp.	0.0%	6.2% (n=2)	26.0% (n=1188)	2.8% (n=32)		
		Anthoather	$C_{al_{a}n_{o}i_{d_{a}}}^{C_{al_{a}n_{o}i_{d_{a}}}}$ $C_{al_{a}n_{o}i_{d_{a}}}^{C_{al_{a}n_{o}i_{d_{a}}}}$	(u_{nid}) (u_{nid}) (u_{nid})	≥ooplankto, n≥1123 (unid)	<i>ስ</i>	
			(medusa)	"(d)	''(d)	(unid)	

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample Val Pred 1.0 -0.8 -Relative Abundance 0.4 0.2 -0.0 S21 S25 S22 S23 S24 S26 S27 S28 S29 S30 Sample Short ID

