

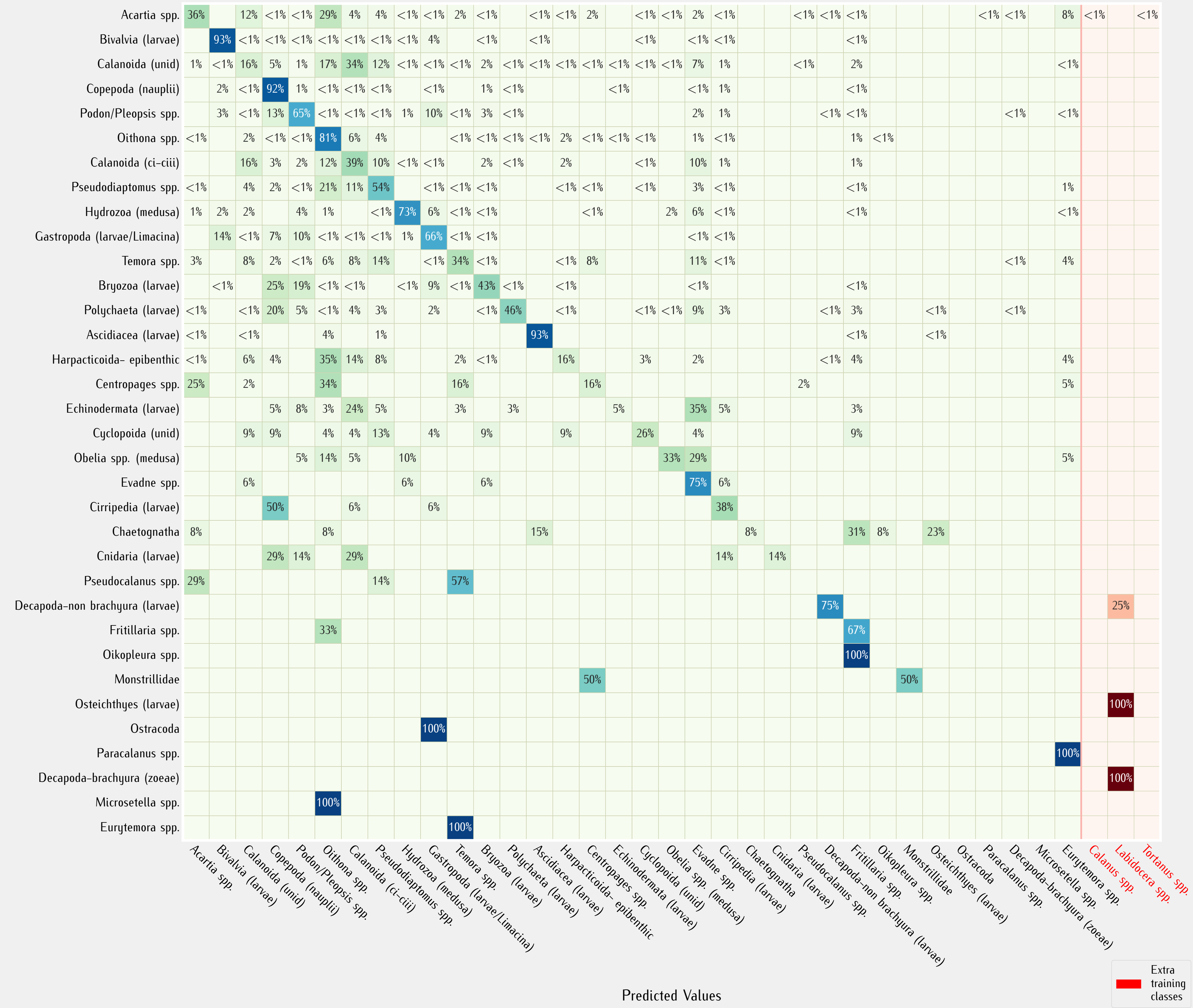
Use of SCN features: Yes
Max learning objects: 5000 objects/class
Strategy N° 9

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

Actual Values



	precision	recall	f1-score
Acartia spp. (n=18062-train=5000)	0.98	0.36	0.53
Bivalvia (larvae) (n=7955-train=3574)	0.97	0.93	0.95
Calanoida (unid) (n=7711-train=5000)	0.32	0.16	0.21
Copepoda (nauplii) (n=2753-train=5000)	0.71	0.92	0.80
Podon/Pleopsis spp. (n=2715-train=3541)	0.83	0.65	0.73
Oithona spp. (n=2572-train=4428)	0.23	0.81	0.36
Calanoida (ci-cii)	0.12	0.39	0.19
Pseudodiaptomus spp. (n=1348-train=1531)	0.23	0.54	0.32
Hydrozoa (medusa) (n=671-train=3730)	0.83	0.73	0.78
Gastropoda (larvae/Limacina) (n=629-train=2871)	0.37	0.66	0.47
Temora spp. (n=308-train=2199)	0.19	0.34	0.25
Bryozoa (larvae) (n=247-train=973)	0.26	0.43	0.32
Polychaeta (larvae) (n=237-train=464)	0.73	0.46	0.56
Ascidacea (larvae) (n=194-train=805)	0.94	0.93	0.94
Harpacticoida- epibenthic (n=108-train=372)	0.07	0.16	0.09
Centropages spp. (n=44-train=3461)	0.02	0.16	0.03
Echinodermata (larvae) (n=37-train=118)	0.08	0.05	0.06
Cyclopoida (unid) (n=23-train=64)	0.10	0.26	0.15
Obelia spp. (medusa) (n=21-train=952)	0.15	0.33	0.21
Evadne spp. (n=16-train=5000)	0.01	0.75	0.02
Cirripedia (larvae) (n=16-train=716)	0.03	0.38	0.05
Chaetognatha (n=13-train=18)	1.00	0.08	0.14
Cnidaria (larvae) (n=7-train=20)	1.00	0.14	0.25
Pseudocalanus spp. (n=7-train=228)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=4-train=197)	0.20	0.75	0.32
Fritillaria spp. (n=3-train=2701)	0.01	0.67	0.01
Oikopleura spp. (n=2-train=37)	0.00	0.00	0.00
Monstrillidae (n=2-train=27)	1.00	0.50	0.67
Osteichthyes (larvae) (n=1-train=43)	0.00	0.00	0.00
Ostracoda (n=1-train=1)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=82)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=277)	0.00	0.00	0.00
Microsetella spp. (n=1-train=4)	0.00	0.00	0.00
Eurytemora spp. (n=1-train=1730)	0.00	0.00	0.00
Calanus spp. (n=0-train=109)	-	-	-
Labidocera spp. (n=0-train=493)	-	-	-
Tortanus spp. (n=0-train=111)	-	-	-
macro avg (corr)	0.33	0.37	0.28
weighted avg	0.73	0.51	0.55
	precision	recall	f1-score

Predictions of discarded taxa from training

Predicted Taxa

Ascidacea (larvae)

0.1% (n=2)

Bivalvia (larvae)

31.8% (n=579)

Bryozoa (larvae)

7.3% (n=133)

Calanoida (ci-ciii)

2.7% (n=50)

Calanoida (unid)

0.8% (n=14)

Cirripedia (larvae)

1.2% (n=22)

Copepoda (nauplii)

23.0% (n=419)

Echinodermata (larvae)

0.1% (n=1)

Evadne spp.

1.3% (n=23)

Fritillaria spp.

0.9% (n=17)

Gastropoda (larvae/Limacina)

14.5% (n=264)

Hydrozoa (medusa)

1.8% (n=33)

Obelia spp. (medusa)

0.1% (n=1)

Oithona spp.

0.7% (n=12)

Podon/Pleopsis spp.

12.7% (n=232)

Polychaeta (larvae)

0.7% (n=12)

Pseudodiaptomus spp.

0.4% (n=7)

Temora spp.

0.1% (n=1)

Zooplankton (unid)
n=1822

Actual discarded Taxa

30

25

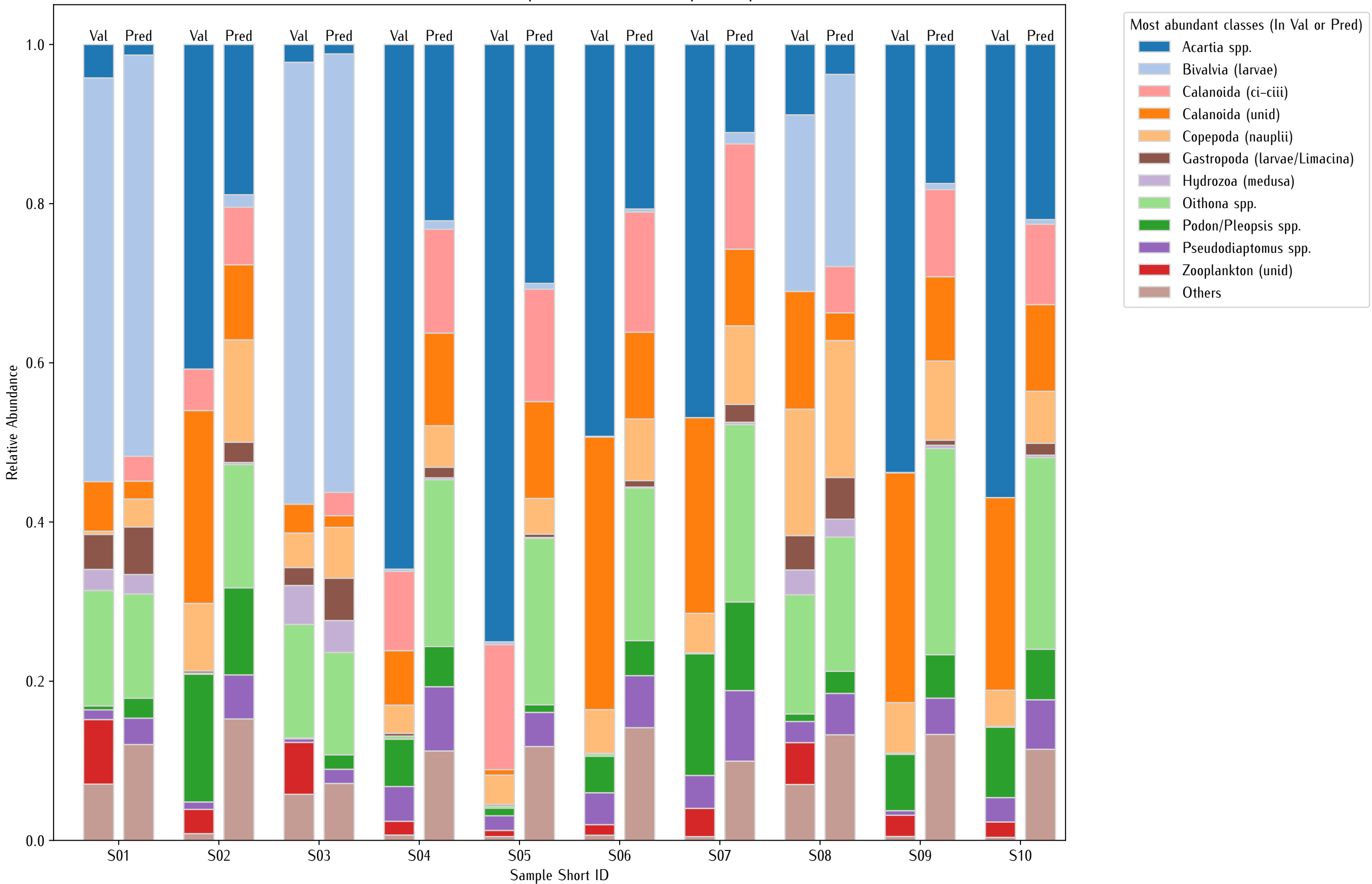
20

15

10

5

Relative Abundance of Top Taxonomic Instances per Sample



Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

