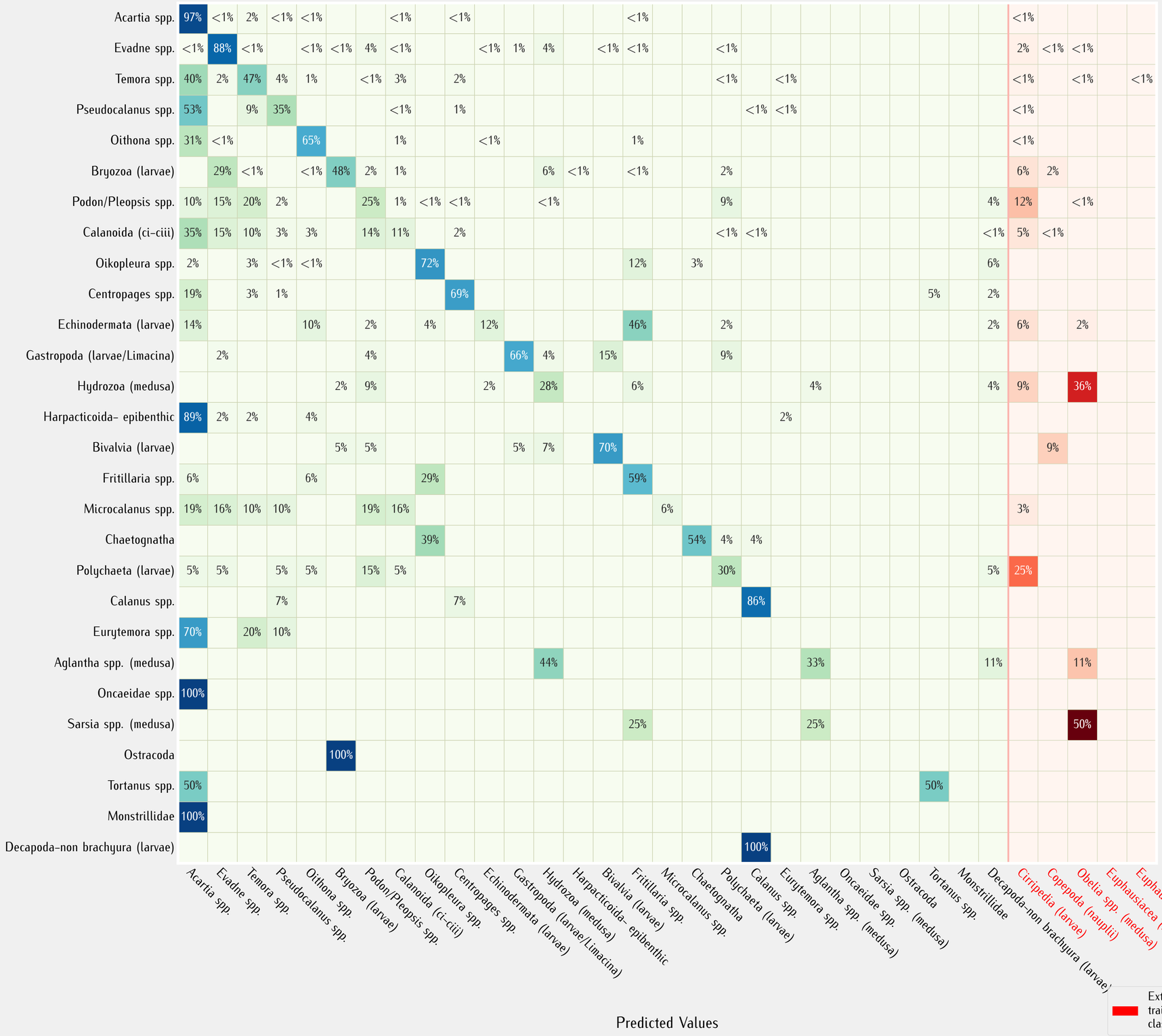
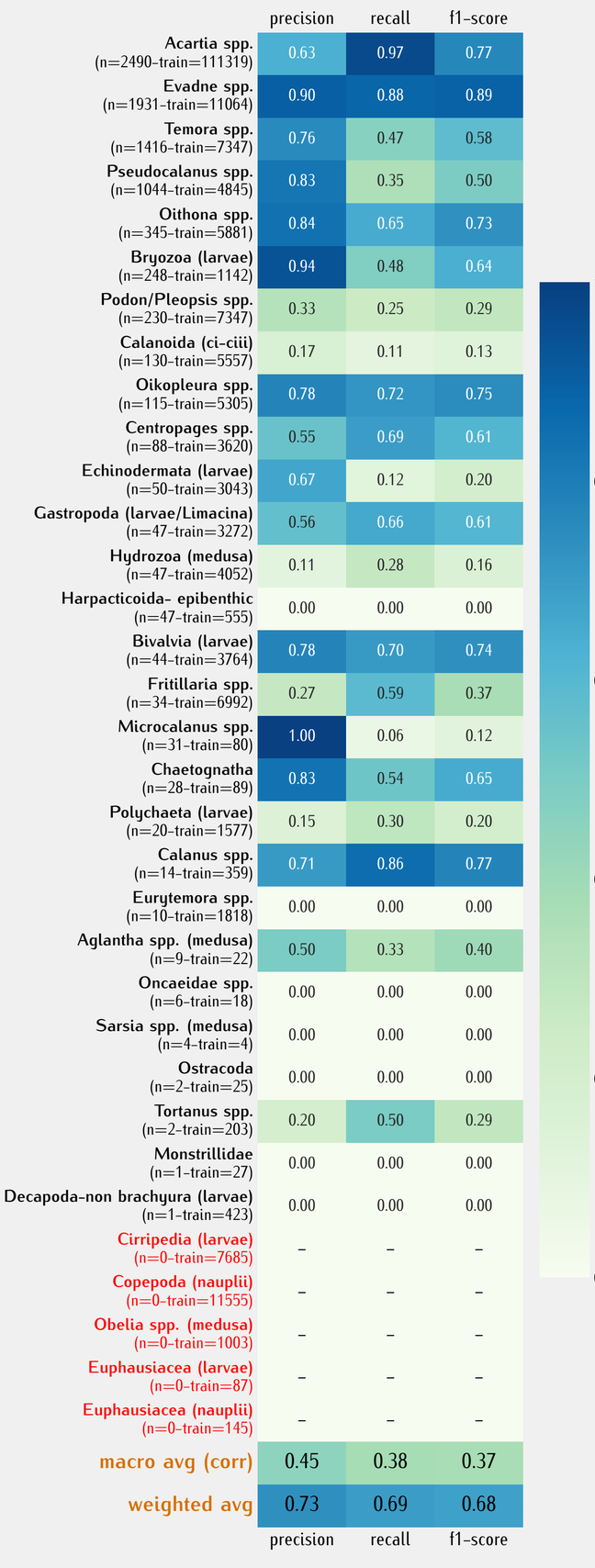
Use of SCN features: Yes
Max learning objects: Maximum objects/class
Strategy N° 6

NL 2021 Selected Samples prediction using all regions training set, Learning with all classes present in the selected samples, with extra regional training categories, No Calanoida (civ–vi), Cyclopoida, Zooplankton classes in learning set

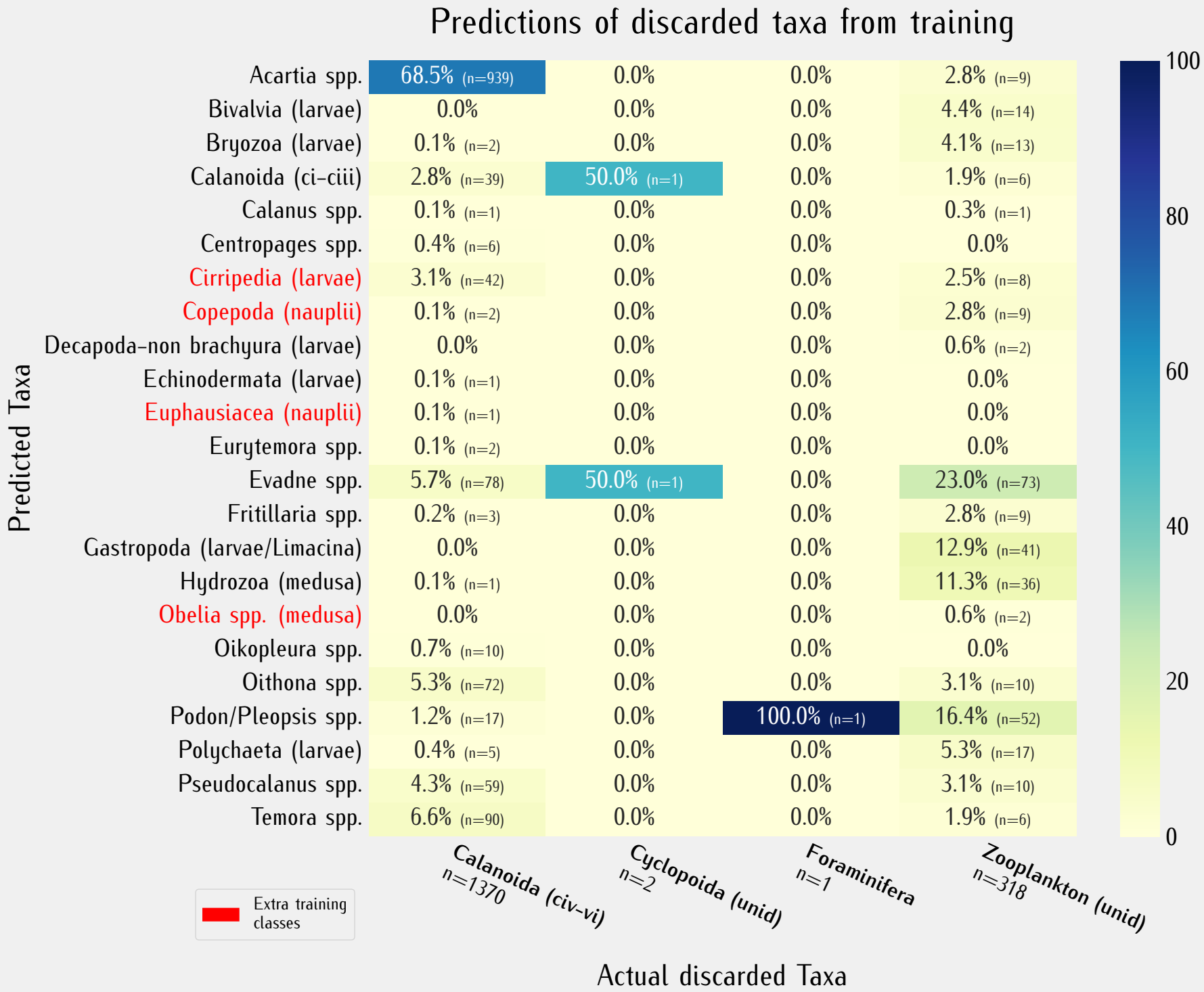
Confusion Matrix – In percent of Actual Value



Classification Report Matrix
max available learning objects per class



	precision	recall	f1-score
Acartia spp. (n=2490-train=111319)	0.63	0.97	0.77
Evadne spp. (n=1931-train=11064)	0.90	0.88	0.89
Temora spp. (n=1416-train=7347)	0.76	0.47	0.58
Pseudocalanus spp. (n=1044-train=4845)	0.83	0.35	0.50
Oithona spp. (n=345-train=5881)	0.84	0.65	0.73
Bryozoa (larvae) (n=248-train=1142)	0.94	0.48	0.64
Podon/Pleopsis spp. (n=230-train=7347)	0.33	0.25	0.29
Calanoida (ci-ciii) (n=130-train=5557)	0.17	0.11	0.13
Oikopleura spp. (n=115-train=5305)	0.78	0.72	0.75
Centropages spp. (n=88-train=3620)	0.55	0.69	0.61
Echinodermata (larvae) (n=50-train=3043)	0.67	0.12	0.20
Gastropoda (larvae/Limacina) (n=47-train=3272)	0.56	0.66	0.61
Hydrozoa (medusa) (n=47-train=4052)	0.11	0.28	0.16
Harpacticoida- epibenthic (n=47-train=555)	0.00	0.00	0.00
Bivalvia (larvae) (n=44-train=3764)	0.78	0.70	0.74
Fritillaria spp. (n=34-train=6992)	0.27	0.59	0.37
Microcalanus spp. (n=31-train=80)	1.00	0.06	0.12
Chaetognatha (n=28-train=89)	0.83	0.54	0.65
Polychaeta (larvae) (n=20-train=1577)	0.15	0.30	0.20
Calanus spp. (n=14-train=359)	0.71	0.86	0.77
Eurytemora spp. (n=10-train=1818)	0.00	0.00	0.00
Aglantha spp. (medusa) (n=9-train=22)	0.50	0.33	0.40
Oncaeidae spp. (n=6-train=18)	0.00	0.00	0.00
Sarsia spp. (medusa) (n=4-train=4)	0.00	0.00	0.00
Ostracoda (n=2-train=25)	0.00	0.00	0.00
Tortanus spp. (n=2-train=203)	0.20	0.50	0.29
Monstrillidae (n=1-train=27)	0.00	0.00	0.00
Decapoda-non brachyura (larvae) (n=1-train=423)	0.00	0.00	0.00
Cirripedia (larvae) (n=0-train=7685)	–	–	–
Copepoda (nauplii) (n=0-train=11555)	–	–	–
Obelia spp. (medusa) (n=0-train=1003)	–	–	–
Euphausiacea (larvae) (n=0-train=87)	–	–	–
Euphausiacea (nauplii) (n=0-train=145)	–	–	–
macro avg (corr)	0.45	0.38	0.37
weighted avg	0.73	0.69	0.68
	precision	recall	f1-score


Predictions of discarded taxa from training
Predicted Taxa
Acartia spp.
Bivalvia (larvae)
Bryozoa (larvae)
Calanoida (ci-ciii)
Calanus spp.
Centropages spp.
Cirripedia (larvae)
Copepoda (nauplii)
Decapoda-non brachyura (larvae)
Echinodermata (larvae)
Euphausiacea (nauplii)
Eurytemora spp.
Evadne spp.
Fritillaria spp.
Gastropoda (larvae/Limacina)
Hydrozoa (medusa)
Obelia spp. (medusa)
Oikopleura spp.
Oithona spp.
Podon/Pleopsis spp.
Polychaeta (larvae)
Pseudocalanus spp.
Temora spp.
68.5% (n=939)
0.0%
0.0%
2.8% (n=9)
0.0%
0.0%
0.0%
4.4% (n=14)
0.1% (n=2)
0.0%
0.0%
4.1% (n=13)
2.8% (n=39)
50.0% (n=1)
0.0%
1.9% (n=6)
0.1% (n=1)
0.0%
0.0%
0.3% (n=1)
0.4% (n=6)
0.0%
0.0%
0.0%
3.1% (n=42)
0.0%
0.0%
2.5% (n=8)
0.1% (n=2)
0.0%
0.0%
2.8% (n=9)
0.0%
0.0%
0.0%
0.6% (n=2)
0.1% (n=1)
0.0%
0.0%
0.0%
0.1% (n=1)
0.0%
0.0%
0.0%
0.1% (n=2)
0.0%
0.0%
0.0%
5.7% (n=78)
50.0% (n=1)
0.0%
23.0% (n=73)
0.2% (n=3)
0.0%
0.0%
2.8% (n=9)
0.0%
0.0%
0.0%
12.9% (n=41)
0.1% (n=1)
0.0%
0.0%
11.3% (n=36)
0.0%
0.0%
0.0%
0.6% (n=2)
0.7% (n=10)
0.0%
0.0%
0.0%
5.3% (n=72)
0.0%
0.0%
3.1% (n=10)
1.2% (n=17)
0.0%
100.0% (n=1)
16.4% (n=52)
0.4% (n=5)
0.0%
0.0%
5.3% (n=17)
4.3% (n=59)
0.0%
0.0%
3.1% (n=10)
6.6% (n=90)
0.0%
0.0%
1.9% (n=6)
100
80
60
40
20
0
Calanoida (civ-vi)
n=1370
Cyclopoida (unid)
n=2
Foraminifera
n=1
Zooplankton (unid)
n=318
Extra training classes
Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

Val Pred Val Pred Val Pred Val Pred Val Pred Val Pred Val Pred Val Pred Val Pred Val Pred

1.0
0.8
0.6
0.4
0.2
0.0

Relative Abundance

S31 S32 S33 S34 S35 S36 S37 S38 S39 S40

Sample Short ID

Most abundant classes (In Val or Pred)
- Acartia spp.
- Bryozoa (larvae)
- Calanoida (ci–ciii)
- Calanoida (civ–vi)
- Evadne spp.
- Oikopleura spp.
- Oithona spp.
- Podon/Pleopsis spp.
- Pseudocalanus spp.
- Temora spp.
- Zooplankton (unid)
- Others