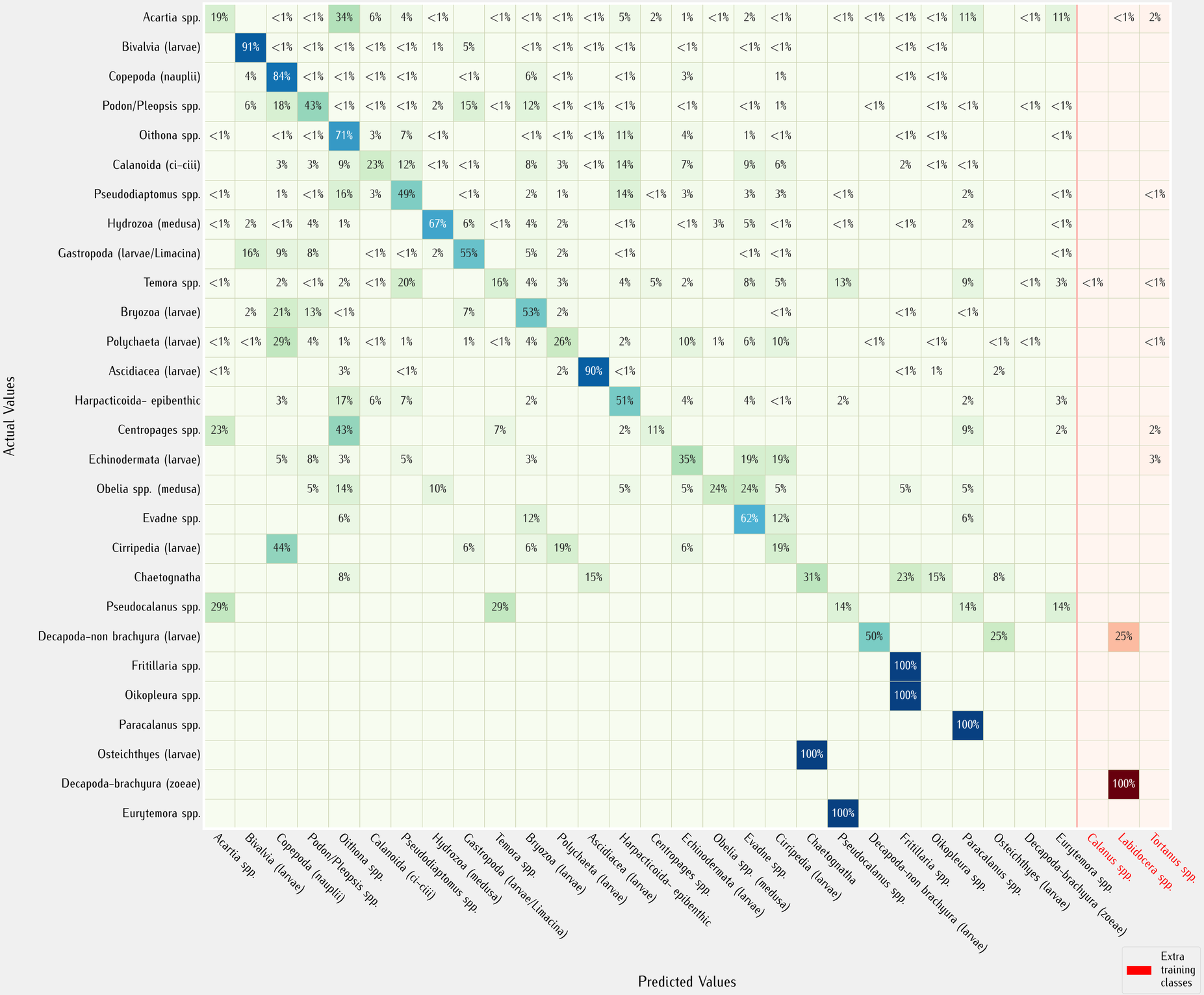
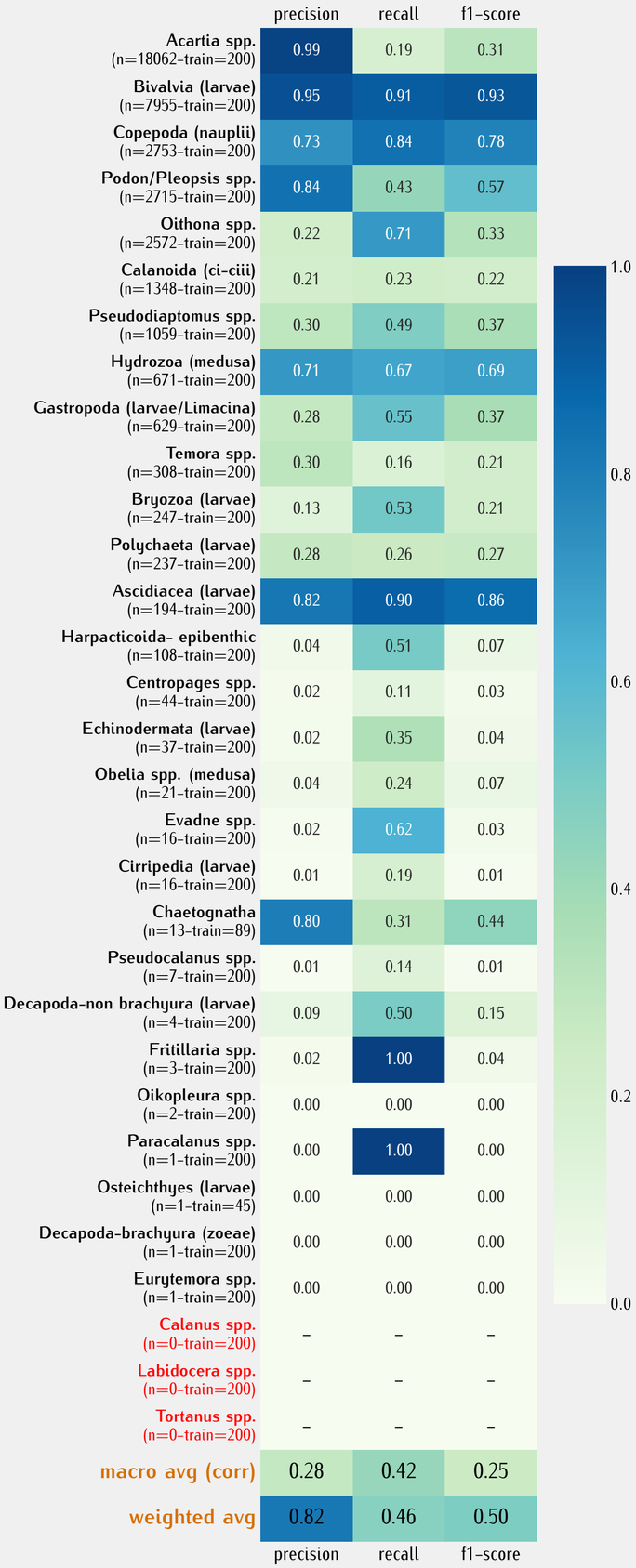
Use of SCN features: No
Max learning objects: 200 objects/class
Strategy N° 8

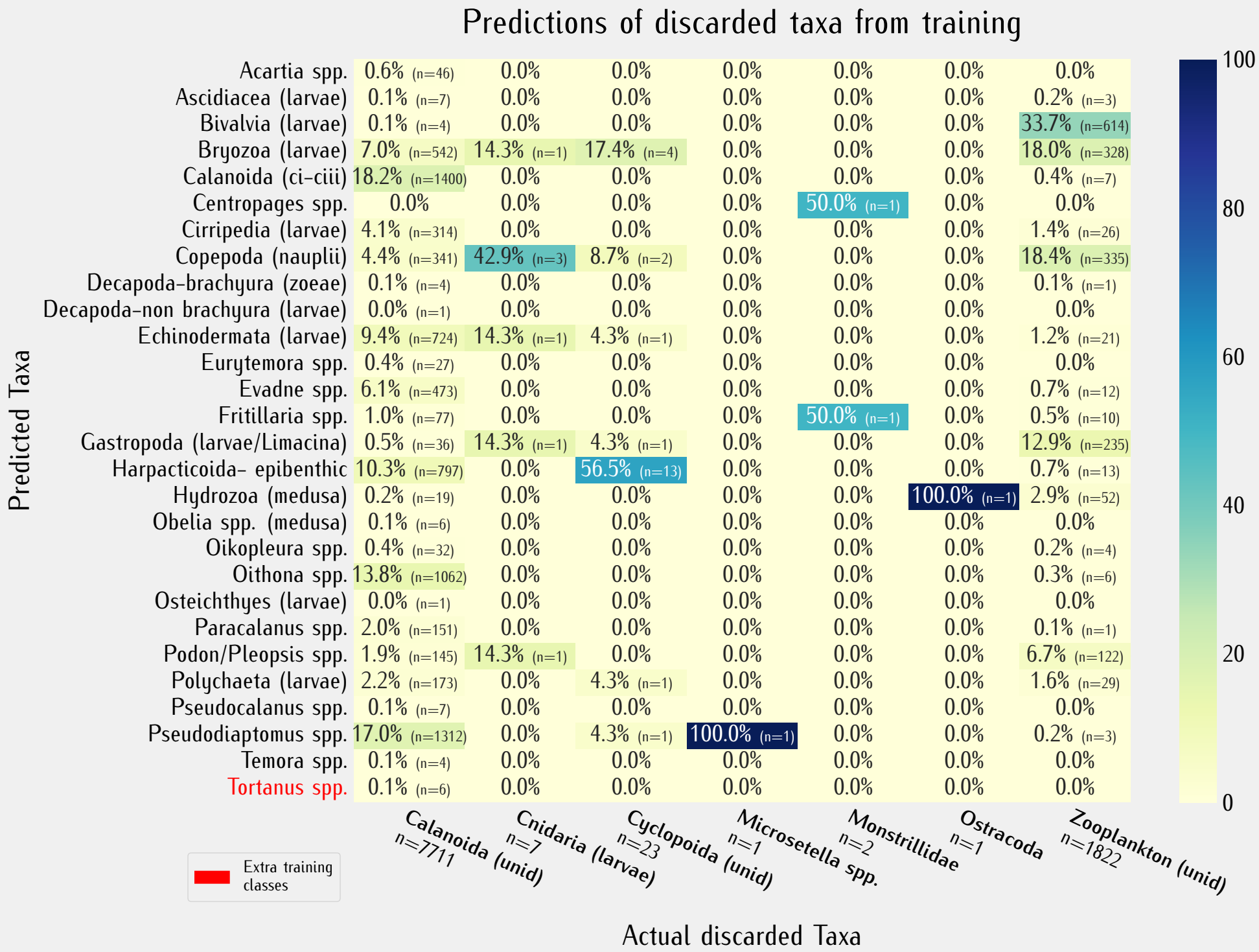
Gulf Selected Samples prediction using all regions training set, Learning with selected samples classes with no low global training instances, with extra regional training categories, No Calanoida, Cyclopoida, Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value



Classification Report Matrix
max 200 learning objects per class




Predictions of discarded taxa from training
Predicted Taxa
Acartia spp. 0.6% (n=46) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Ascidiacea (larvae) 0.1% (n=7) 0.0% 0.0% 0.0% 0.0% 0.0% 0.2% (n=3)
Bivalvia (larvae) 0.1% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 33.7% (n=614)
Bryozoa (larvae) 7.0% (n=542) 14.3% (n=1) 17.4% (n=4) 0.0% 0.0% 0.0% 18.0% (n=328)
Calanoida (ci-ciii) 18.2% (n=1400) 0.0% 0.0% 0.0% 0.0% 0.0% 0.4% (n=7)
Centropages spp. 0.0% 0.0% 0.0% 0.0% 50.0% (n=1) 0.0% 0.0%
Cirripedia (larvae) 4.1% (n=314) 0.0% 0.0% 0.0% 0.0% 0.0% 1.4% (n=26)
Copepoda (nauplii) 4.4% (n=341) 42.9% (n=3) 8.7% (n=2) 0.0% 0.0% 0.0% 18.4% (n=335)
Decapoda-brachyura (zoeae) 0.1% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=1)
Decapoda-non brachyura (larvae) 0.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Echinodermata (larvae) 9.4% (n=724) 14.3% (n=1) 4.3% (n=1) 0.0% 0.0% 0.0% 1.2% (n=21)
Eurytemora spp. 0.4% (n=27) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Evadne spp. 6.1% (n=473) 0.0% 0.0% 0.0% 0.0% 0.0% 0.7% (n=12)
Fritillaria spp. 1.0% (n=77) 0.0% 0.0% 0.0% 50.0% (n=1) 0.0% 0.5% (n=10)
Gastropoda (larvae/Limacina) 0.5% (n=36) 14.3% (n=1) 4.3% (n=1) 0.0% 0.0% 0.0% 12.9% (n=235)
Harpacticoida- epibenthic 10.3% (n=797) 0.0% 56.5% (n=13) 0.0% 0.0% 0.0% 0.7% (n=13)
Hydrozoa (medusa) 0.2% (n=19) 0.0% 0.0% 0.0% 0.0% 100.0% (n=1) 2.9% (n=52)
Obelia spp. (medusa) 0.1% (n=6) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Oikopleura spp. 0.4% (n=32) 0.0% 0.0% 0.0% 0.0% 0.0% 0.2% (n=4)
Oithona spp. 13.8% (n=1062) 0.0% 0.0% 0.0% 0.0% 0.0% 0.3% (n=6)
Osteichthyes (larvae) 0.0% (n=1) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Paracalanus spp. 2.0% (n=151) 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=1)
Podon/Pleopsis spp. 1.9% (n=145) 14.3% (n=1) 0.0% 0.0% 0.0% 0.0% 6.7% (n=122)
Polychaeta (larvae) 2.2% (n=173) 0.0% 4.3% (n=1) 0.0% 0.0% 0.0% 1.6% (n=29)
Pseudocalanus spp. 0.1% (n=7) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Pseudodiaptomus spp. 17.0% (n=1312) 0.0% 4.3% (n=1) 100.0% (n=1) 0.0% 0.0% 0.2% (n=3)
Temora spp. 0.1% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Tortanus spp. 0.1% (n=6) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Calanoida (unid) n=7711
Cnidaria (larvae) n=7
Cyclopoida (unid) n=23
Microsetella spp. n=1
Monstrillidae n=2
Ostracoda n=1
Zooplankton (unid) n=1822
Actual discarded Taxa
Extra training classes
100
80
60
40
20
0

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

S01 S02 S03 S04 S05 S06 S07 S08 S09 S10

Sample Short ID

Most abundant classes (In Val or Pred)
- Acartia spp.
- Bivalvia (larvae)
- Calanoida (ci–ciii)
- Calanoida (unid)
- Copepoda (nauplii)
- Gastropoda (larvae/Limacina)
- Hydrozoa (medusa)
- Oithona spp.
- Podon/Pleopsis spp.
- Pseudodiaptomus spp.
- Zooplankton (unid)
- Others