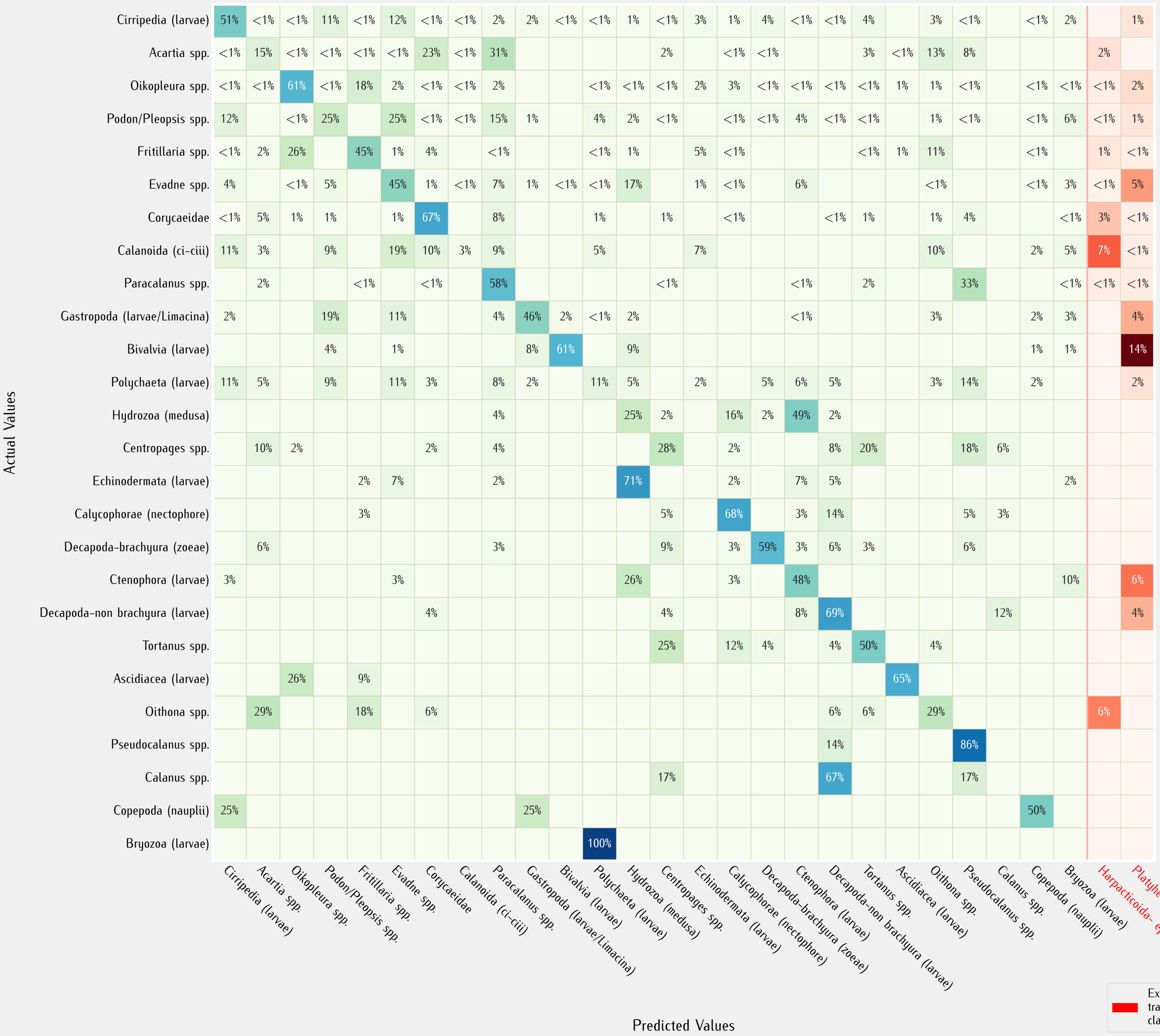
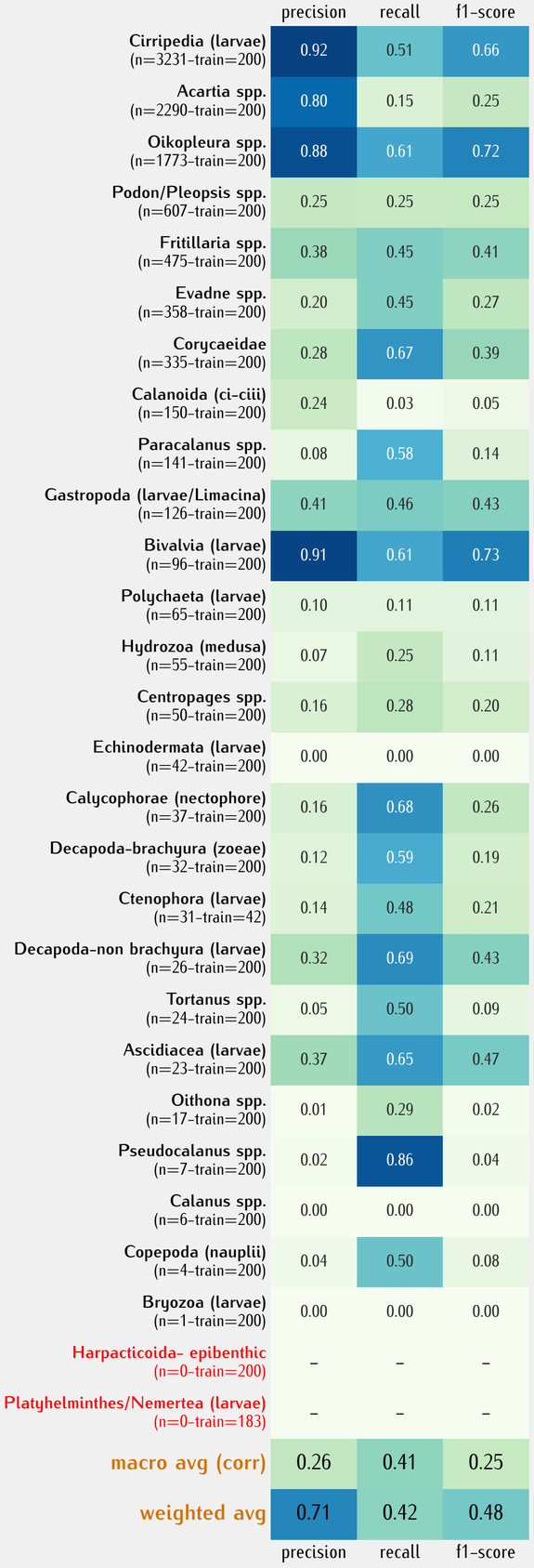
Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 8

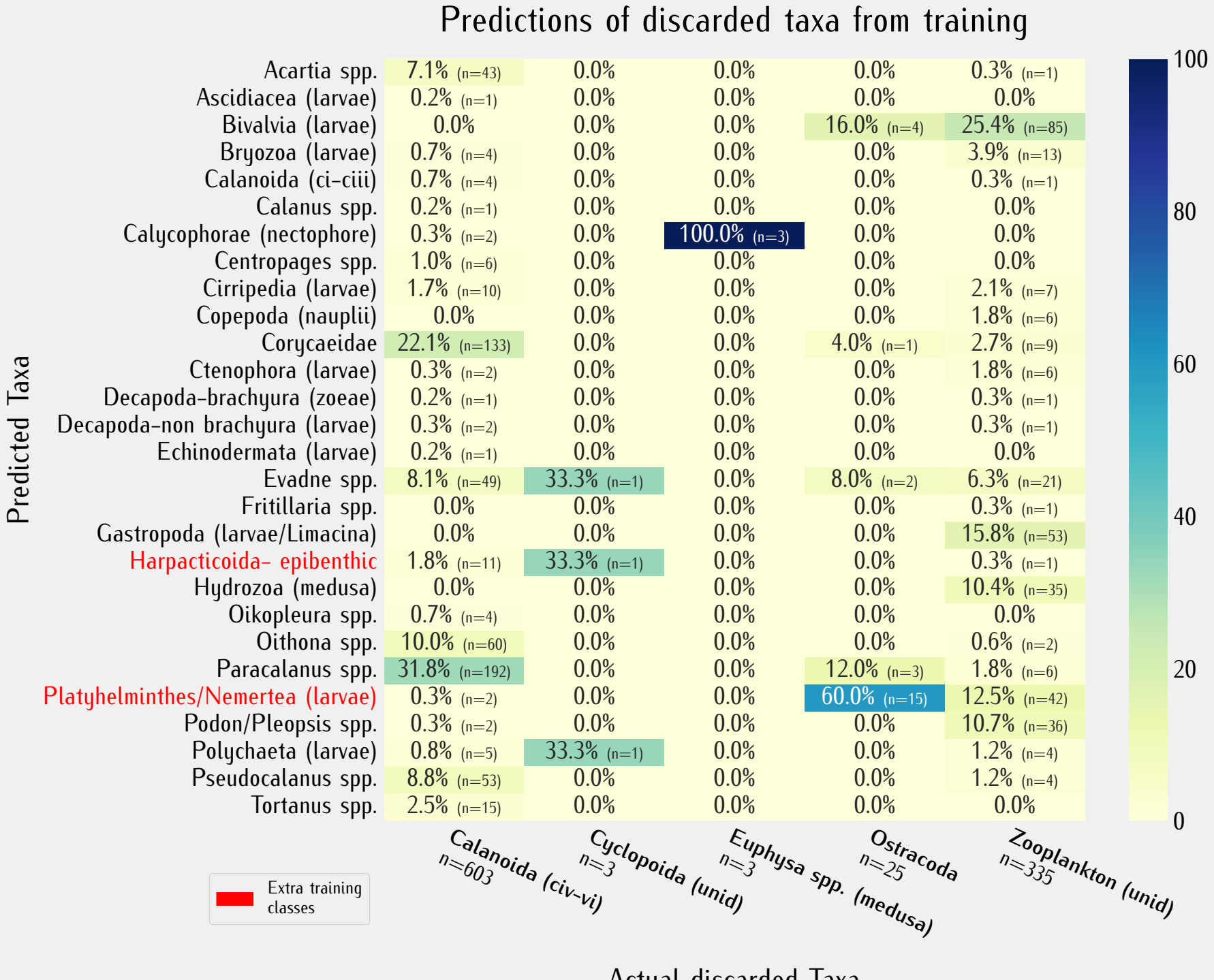
# PA Selected Samples prediction using all regions training set, Learning with selected samples classes with no low global training instances, with extra regional training categories, No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

## Confusion Matrix - In percent of Actual Value




## Classification Report Matrix
max 200 learning objects per class




Predictions of discarded taxa from training
Predicted Taxa
Actual discarded Taxa
Acartia spp. 7.1% (n=43) 0.0% 0.0% 0.0% 0.3% (n=1)
Ascidiacea (larvae) 0.2% (n=1) 0.0% 0.0% 0.0% 0.0%
Bivalvia (larvae) 0.0% 0.0% 0.0% 16.0% (n=4) 25.4% (n=85)
Bryozoa (larvae) 0.7% (n=4) 0.0% 0.0% 0.0% 3.9% (n=13)
Calanoida (ci-ciii) 0.7% (n=4) 0.0% 0.0% 0.0% 0.3% (n=1)
Calanus spp. 0.2% (n=1) 0.0% 0.0% 0.0% 0.0%
Calycophorae (nectophore) 0.3% (n=2) 0.0% 100.0% (n=3) 0.0% 0.0%
Centropages spp. 1.0% (n=6) 0.0% 0.0% 0.0% 0.0%
Cirripedia (larvae) 1.7% (n=10) 0.0% 0.0% 0.0% 2.1% (n=7)
Copepoda (nauplii) 0.0% 0.0% 0.0% 0.0% 1.8% (n=6)
Corycaeidae 22.1% (n=133) 0.0% 0.0% 4.0% (n=1) 2.7% (n=9)
Ctenophora (larvae) 0.3% (n=2) 0.0% 0.0% 0.0% 1.8% (n=6)
Decapoda-brachyura (zoeae) 0.2% (n=1) 0.0% 0.0% 0.0% 0.3% (n=1)
Decapoda-non brachyura (larvae) 0.3% (n=2) 0.0% 0.0% 0.0% 0.3% (n=1)
Echinodermata (larvae) 0.2% (n=1) 0.0% 0.0% 0.0% 0.0%
Evadne spp. 8.1% (n=49) 33.3% (n=1) 0.0% 8.0% (n=2) 6.3% (n=21)
Fritillaria spp. 0.0% 0.0% 0.0% 0.0% 0.3% (n=1)
Gastropoda (larvae/Limacina) 0.0% 0.0% 0.0% 0.0% 15.8% (n=53)
Harpacticoida- epibenthic 1.8% (n=11) 33.3% (n=1) 0.0% 0.0% 0.3% (n=1)
Hydrozoa (medusa) 0.0% 0.0% 0.0% 0.0% 10.4% (n=35)
Oikopleura spp. 0.7% (n=4) 0.0% 0.0% 0.0% 0.0%
Oithona spp. 10.0% (n=60) 0.0% 0.0% 0.0% 0.6% (n=2)
Paracalanus spp. 31.8% (n=192) 0.0% 0.0% 12.0% (n=3) 1.8% (n=6)
Platyhelminthes/Nemertea (larvae) 0.3% (n=2) 0.0% 0.0% 60.0% (n=15) 12.5% (n=42)
Podon/Pleopsis spp. 0.3% (n=2) 0.0% 0.0% 0.0% 10.7% (n=36)
Polychaeta (larvae) 0.8% (n=5) 33.3% (n=1) 0.0% 0.0% 1.2% (n=4)
Pseudocalanus spp. 8.8% (n=53) 0.0% 0.0% 0.0% 1.2% (n=4)
Tortanus spp. 2.5% (n=15) 0.0% 0.0% 0.0% 0.0%
Calanoida (civ-vi) n=603
Cyclopoida (unid) n=3
Euphysa spp. (medusa) n=3
Ostracoda n=25
Zooplankton (unid) n=335
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

S11 S12 S13 S14 S15 S16 S17 S18 S19 S20

Sample Short ID

Most abundant classes (In Val or Pred)
- Acartia spp.
- Calanoida (ci–ciii)
- Calanoida (civ–vi)
- Cirripedia (larvae)
- Corycaeidae
- Evadne spp.
- Fritillaria spp.
- Oikopleura spp.
- Paracalanus spp.
- Podon/Pleopsis spp.
- Zooplankton (unid)
- Others