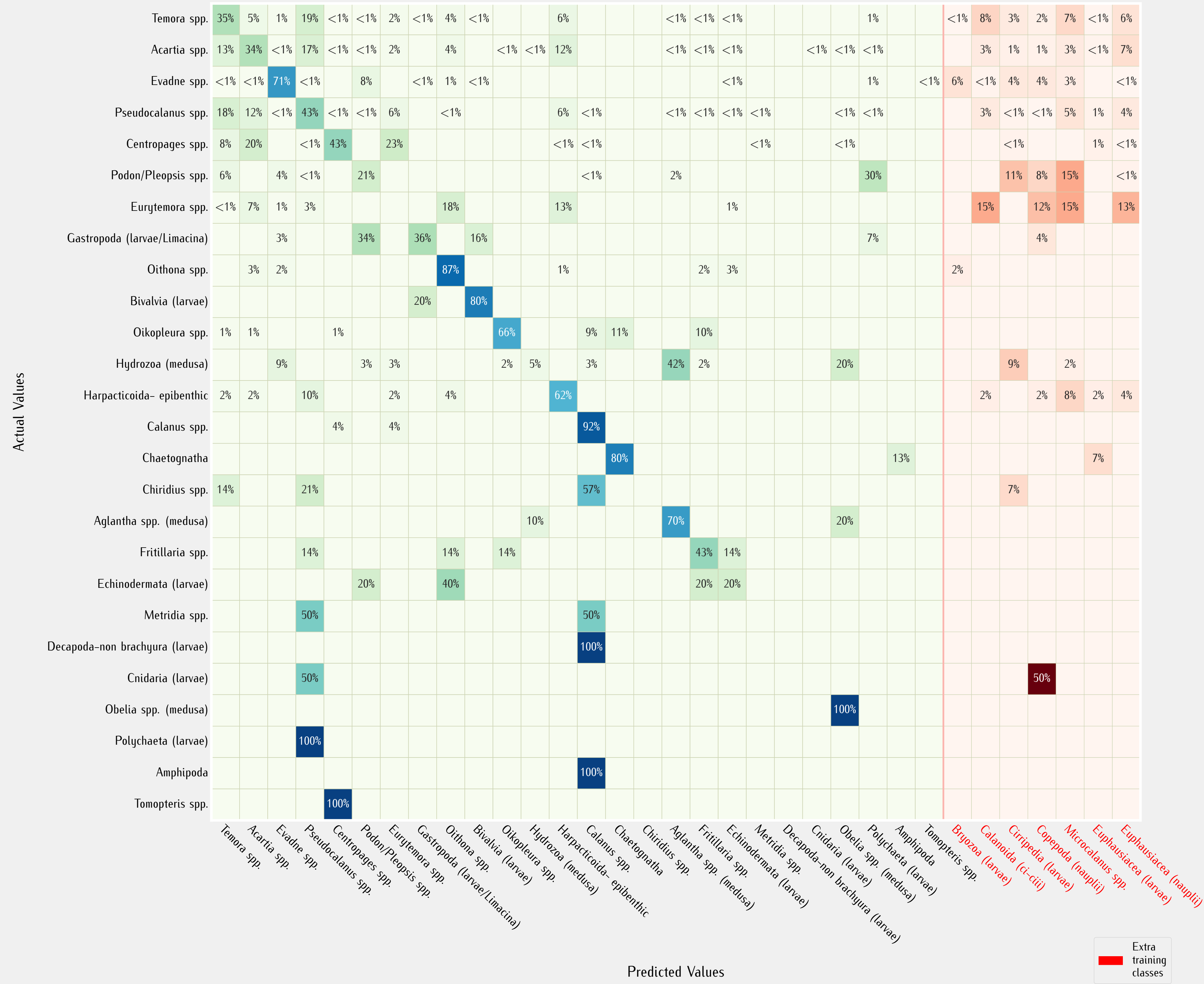


Use of SCN features: Yes
Max learning objects: 200 objects/class
Strategy N° 2

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

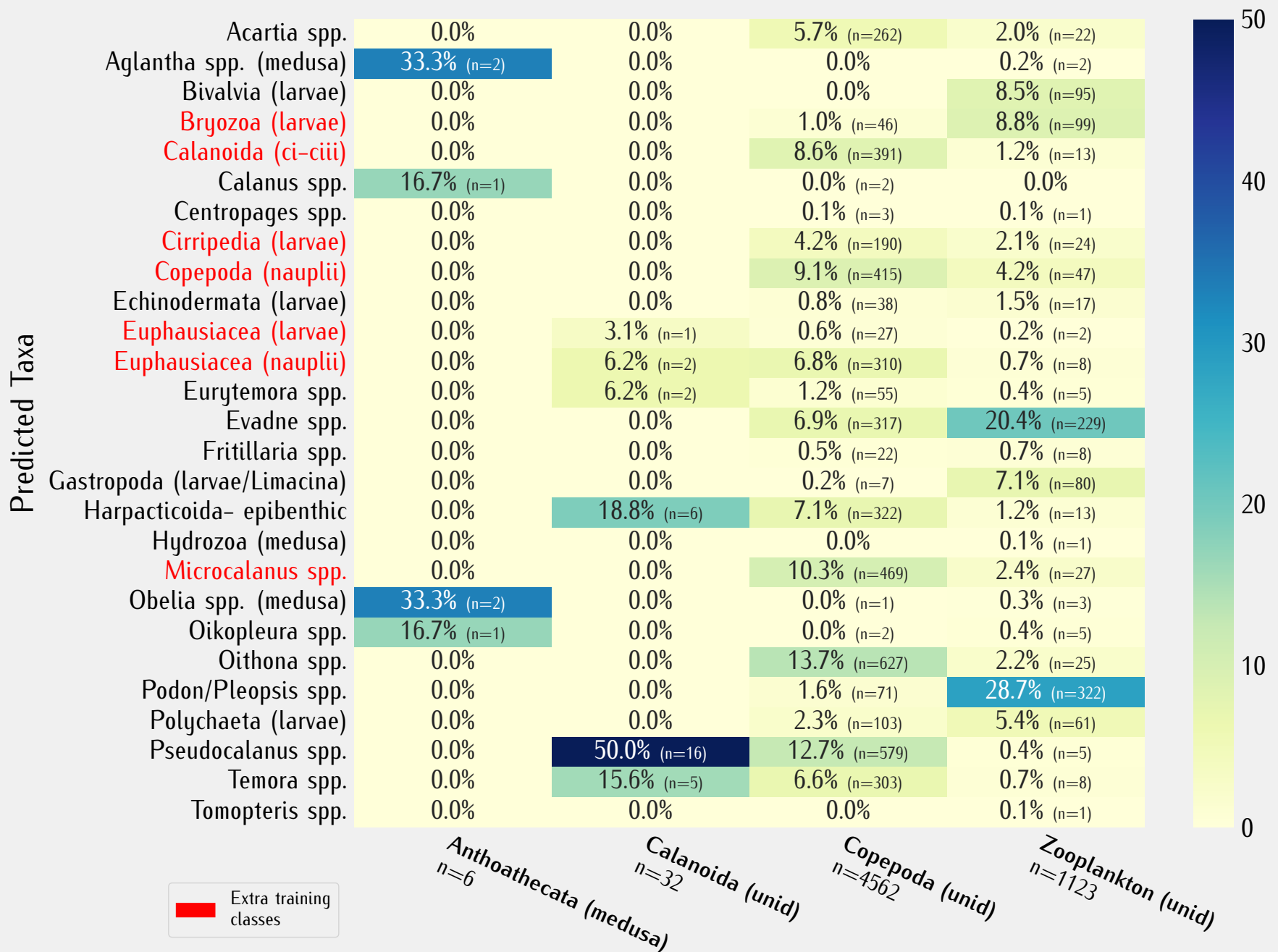
Confusion Matrix – In percent of Actual Value



Classification Report Matrix
max 200 learning objects per class

| | precision | recall | f1-score |
|---|-----------|--------|----------|
| Temora spp. (n=18103-train=200) | 0.73 | 0.35 | 0.47 |
| Acartia spp. (n=13302-train=200) | 0.78 | 0.34 | 0.47 |
| Evadne spp. (n=5228-train=200) | 0.93 | 0.71 | 0.81 |
| Pseudocalanus spp. (n=3053-train=200) | 0.19 | 0.43 | 0.26 |
| Centropages spp. (n=330-train=40) | 0.82 | 0.43 | 0.57 |
| Podon/Pleopsis spp. (n=253-train=200) | 0.10 | 0.21 | 0.13 |
| Eurytemora spp. (n=178-train=88) | 0.00 | 0.00 | 0.00 |
| Gastropoda (larvae/Limacina) (n=112-train=110) | 0.44 | 0.36 | 0.39 |
| Oithona spp. (n=98-train=200) | 0.06 | 0.87 | 0.11 |
| Bivalvia (larvae) (n=92-train=71) | 0.70 | 0.80 | 0.75 |
| Oikopleura spp. (n=70-train=200) | 0.88 | 0.66 | 0.75 |
| Hydrozoa (medusa) (n=64-train=21) | 0.60 | 0.05 | 0.09 |
| Harpacticoida- epibenthic (n=50-train=136) | 0.01 | 0.62 | 0.02 |
| Calanus spp. (n=25-train=200) | 0.48 | 0.92 | 0.63 |
| Chaetognatha (n=15-train=67) | 0.60 | 0.80 | 0.69 |
| Chiridius spp. (n=14-train=1) | 0.00 | 0.00 | 0.00 |
| Aglantha spp. (medusa) (n=10-train=21) | 0.09 | 0.70 | 0.16 |
| Fritillaria spp. (n=7-train=200) | 0.03 | 0.43 | 0.05 |
| Echinodermata (larvae) (n=5-train=200) | 0.01 | 0.20 | 0.01 |
| Metridia spp. (n=2-train=15) | 0.00 | 0.00 | 0.00 |
| Decapoda-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) | 0.03 | 1.00 | 0.06 |
| Polychaeta (larvae) (n=1-train=200) | 0.00 | 0.00 | 0.00 |
| Amphipoda (n=1-train=1) | 0.00 | 0.00 | 0.00 |
| Tomopteris spp. (n=1-train=1) | 0.00 | 0.00 | 0.00 |
| Bryozoa (larvae) (n=0-train=119) | - | - | - |
| Calanoida (ci-ciii) (n=0-train=200) | - | - | - |
| Cirripedia (larvae) (n=0-train=200) | - | - | - |
| Copepoda (nauplii) (n=0-train=200) | - | - | - |
| Microcalanus spp. (n=0-train=80) | - | - | - |
| Euphausiacea (larvae) (n=0-train=75) | - | - | - |
| Euphausiacea (nauplii) (n=0-train=122) | - | - | - |
| macro avg (corr) | 0.29 | 0.38 | 0.25 |
| weighted avg | 0.72 | 0.40 | 0.49 |
| | precision | recall | f1-score |

Predictions of discarded taxa from training



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

