

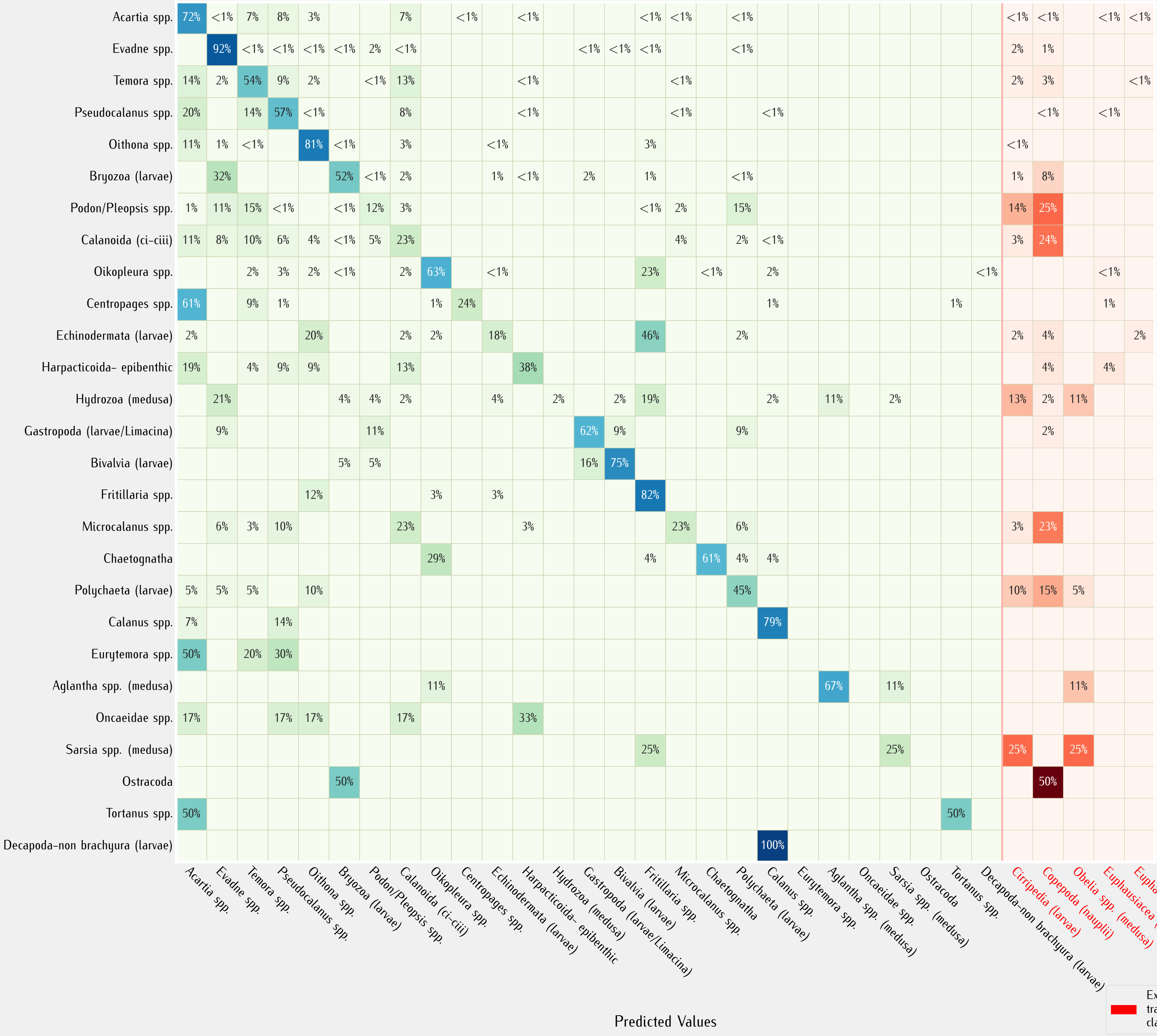
Use of SCN features: No
Max learning objects: 5000 objects/class
Strategy N° 2

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

Confusion Matrix – In percent of Actual Value

Classification Report Matrix
max 5000 learning objects per class

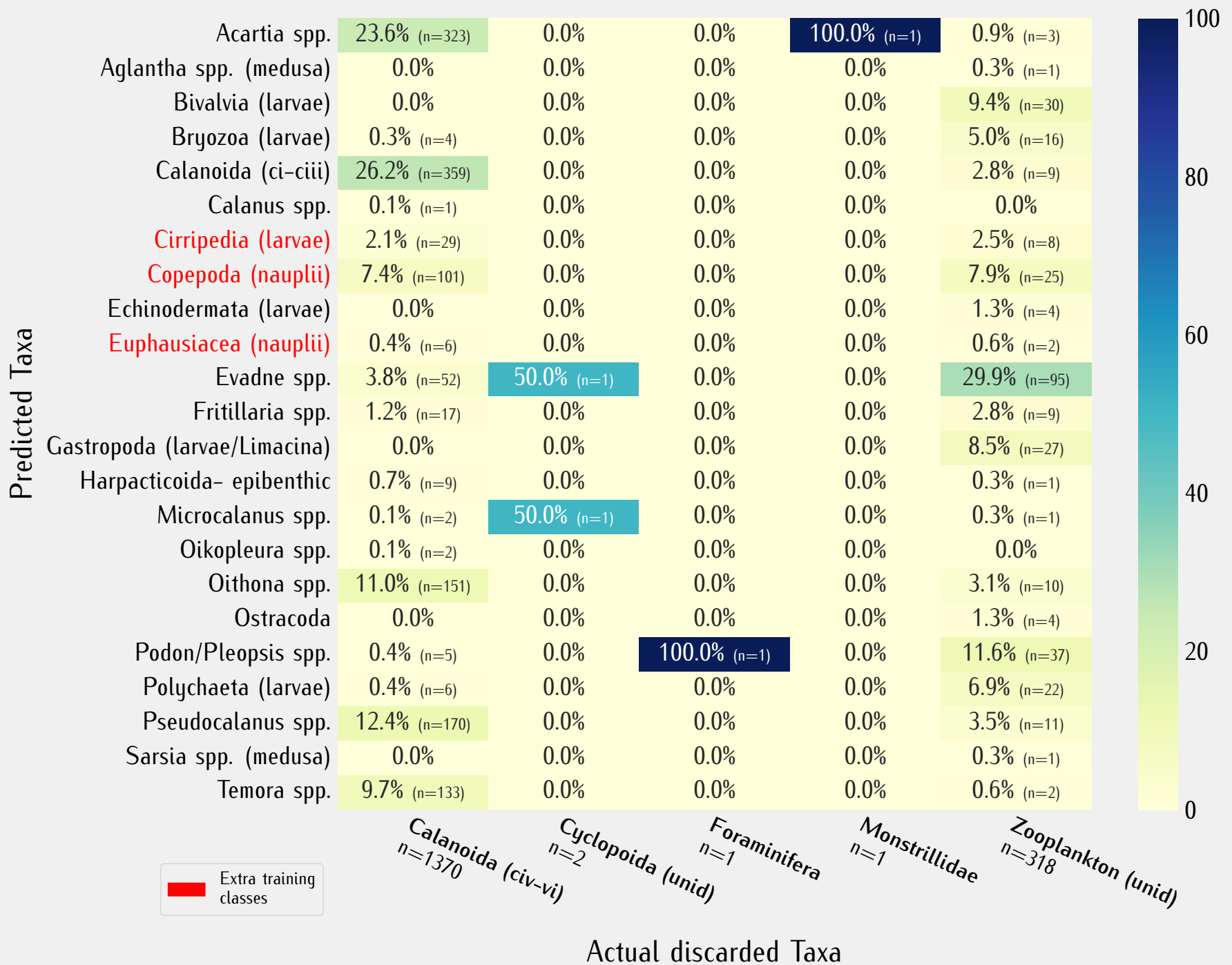
Actual Values



| | precision | recall | f1-score |
|--|-----------|--------|----------|
| Acartia spp. (n=2490-train=5000) | 0.77 | 0.72 | 0.74 |
| Evadne spp. (n=1931-train=2845) | 0.91 | 0.92 | 0.92 |
| Temora spp. (n=1416-train=5000) | 0.66 | 0.54 | 0.60 |
| Pseudocalanus spp. (n=1044-train=4552) | 0.63 | 0.57 | 0.60 |
| Oithona spp. (n=345-train=1409) | 0.66 | 0.81 | 0.73 |
| Bryozoa (larvae) (n=248-train=119) | 0.91 | 0.52 | 0.66 |
| Podon/Pleopsis spp. (n=230-train=201) | 0.31 | 0.12 | 0.17 |
| Calanoida (ci-ciii) (n=130-train=3713) | 0.06 | 0.23 | 0.09 |
| Oikopleura spp. (n=115-train=761) | 0.86 | 0.63 | 0.73 |
| Centropages spp. (n=88-train=40) | 0.95 | 0.24 | 0.38 |
| Echinodermata (larvae) (n=50-train=276) | 0.53 | 0.18 | 0.27 |
| Harpacticoida- epibenthic (n=47-train=136) | 0.55 | 0.38 | 0.45 |
| Hydrozoa (medusa) (n=47-train=21) | 1.00 | 0.02 | 0.04 |
| Gastropoda (larvae/Limacina) (n=47-train=110) | 0.55 | 0.62 | 0.58 |
| Bivalvia (larvae) (n=44-train=71) | 0.73 | 0.75 | 0.74 |
| Fritillaria spp. (n=34-train=3447) | 0.23 | 0.82 | 0.36 |
| Microcalanus spp. (n=31-train=80) | 0.26 | 0.23 | 0.24 |
| Chaetognatha (n=28-train=67) | 0.94 | 0.61 | 0.74 |
| Polychaeta (larvae) (n=20-train=452) | 0.14 | 0.45 | 0.21 |
| Calanus spp. (n=14-train=213) | 0.55 | 0.79 | 0.65 |
| Eurytemora spp. (n=10-train=88) | 0.00 | 0.00 | 0.00 |
| Aglantha spp. (medusa) (n=9-train=21) | 0.55 | 0.67 | 0.60 |
| Oncaeidæ spp. (n=6-train=16) | 0.00 | 0.00 | 0.00 |
| Sarsia spp. (medusa) (n=4-train=4) | 0.33 | 0.25 | 0.29 |
| Ostracoda (n=2-train=6) | 0.00 | 0.00 | 0.00 |
| Tortanus spp. (n=2-train=4) | 0.50 | 0.50 | 0.50 |
| Decapoda-non brachyura (larvae) (n=1-train=7) | 0.00 | 0.00 | 0.00 |
| Cirripedia (larvae) (n=0-train=611) | - | - | - |
| Copepoda (nauplii) (n=0-train=1025) | - | - | - |
| Obelia spp. (medusa) (n=0-train=43) | - | - | - |
| Euphausiacea (larvae) (n=0-train=75) | - | - | - |
| Euphausiacea (nauplii) (n=0-train=122) | - | - | - |
| macro avg (corr) | 0.50 | 0.43 | 0.42 |
| weighted avg | 0.74 | 0.67 | 0.69 |
| | precision | recall | f1-score |



Predictions of discarded taxa from training



Relative Abundance of Top Taxonomic Instances per Sample

