Use of SCN features: No

Actual Values

Max learning objects: 20000 objects/class Strategy N° 8

NL 2021 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

| ma | | ation Repo earning obj | ort Matrix jects per cla | | | |
|---|-----------|---------------------------|-----------------------------|--|--|--|
| | precision | recall | f1-score | | | |
| Acartia spp. (n=2490-train=20000) | 0.74 | 0.79 | 0.77 | | | |
| Evadne spp. (n=1931-train=11064) | 0.92 | 0.88 | 0.90 | | | |
| Temora spp. (n=1416-train=7347) | 0.68 | 0.57 | 0.62 | | | |
| Pseudocalanus spp. (n=1044-train=4845) | 0.68 | 0.48 | 0.56 | | | |
| Oithona spp. (n=345-train=5881) | 0.77 | 0.77 | 0.77 | | | |
| Bryozoa (larvae) (n=248-train=1142) | 0.92 | 0.58 | 0.71 | | | |
| Podon/Pleopsis spp. (n=230-train=7347) | 0.39 | 0.29 | 0.33 | | | |
| Calanoida (ci-ciii) (n=130-train=5557) | 0.11 | 0.18 | 0.14 | | | |
| Oikopleura spp. (n=115-train=5305) | 0.75 | 0.75 | 0.75 | | | |
| Centropages spp. (n=88-train=3620) | 0.25 | 0.77 | 0.38 | | | |
| Echinodermata (larvae) (n=50-train=3043) | 0.55 | 0.12 | 0.20 | | | |
| Gastropoda (larvae/Limacina) (n=47-train=3272) | 0.45 | 0.66 | 0.53 | | | |
| Harpacticoida- epibenthic (n=47-train=555) | 0.65 | 0.32 | 0.43 | | | |
| Hydrozoa (medusa) (n=47-train=4052) | 0.13 | 0.32 | 0.19 | | | |
| Bivalvia (larvae) (n=44-train=3764) | 0.80 | 0.73 | 0.76 | | | |
| Fritillaria spp. (n=34-train=6992) | 0.24 | 0.62 | 0.34 | | | |
| Microcalanus spp. | 0.42 | 0.16 | 0.23 | | | |
| (n=31-train=80) Chaetognatha | 0.86 | 0.64 | 0.73 | | | |
| (n=28-train=89) Polychaeta (larvae) | 0.18 | 0.45 | 0.26 | | | |
| (n=20-train=1577) Calanus spp. | 0.71 | 0.71 | 0.71 | | | |
| (n=14-train=359) Eurytemora spp. | 0.01 | 0.10 | 0.02 | | | |
| (n=10-train=1818) Tortanus spp. | 0.17 | 0.50 | 0.25 | | | |
| (n=2-train=203) apoda-non brachyura (larvae) | 0.00 | 0.00 | 0.00 | | | |
| (n=1-train=423) Cirripedia (larvae) | - | _ | - | | | |
| (n=0-train=7685) Copepoda (nauplii) | _ | _ | <u>_</u> | | | |
| (n=0-train=11555) Obelia spp. (medusa) | _ | _ | _ | | | |
| (n=0-train=1003) Euphausiacea (larvae) | | _ | _ | | | |
| (n=0-train=87) Euphausiacea (nauplii) | _ | _ | _ | | | |
| (n=0-train=145) | 0.49 | 0.49 | 0.46 | | | |
| macro avg (corr) | 0.49 | 0.49 | 0.40 | | | |

weighted avg

0.74

precision recall f1-score

0.70

| Confusion Matrix – In percent of Actual Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|-------|--------------|--------|--------------|---------------|----------|------------|-------------|------|--------|---------------|---------|------------------------------|----------------|------------------------|--------------------|--------|------------|---------------|--------------|------------|---------|---------|--------------|----------|-------------------|-------------------|----|
| Acartia spp. | 79% | <1% | 7% | 5% | 1% | | <1% | 2% | <1% | 3% | | | <1% | | | <1% | <1% | | <1% | | <1% | <1% | | <1% | | <1% | | <1% | | |
| Evadne spp. | <1% | 88% | <1% | <1% | <1% | <1% | 4% | <1% | | | | 2% | <1% | 4% | <1% | | | | <1% | | | | | 2% | <1% | <1% | | | | |
| Temora spp. | 18% | 2% | 57% | 7% | 1% | <1% | <1% | 6% | | 5% | | | <1% | | | | | | | | 3% | | | 2% | <1% | <1% | <1% | <1% | | |
| Pseudocalanus spp. | 29% | | 11% | 48% | | | | 3% | | 5% | | | | | | | <1% | | | <1% | 3% | | <1% | | | <1% | | | | |
| Oithona spp. | 14% | <1% | <1% | | 77% | | | 1% | <1% | <1% | <1% | | | | | 3% | | | | | <1% | | | <1% | | | | | | |
| Bryozoa (larvae) | | 21% | | | <1% | 58% | 2% | 1% | <1% | | <1% | | <1% | 8% | | <1% | | | <1% | | | | | 4% | 2% | | | | | |
| Podon/Pleopsis spp. | 2% | 12% | 23% | <1% | | 1% | 29% | 3% | <1% | <1% | | | | <1% | | | | | 10% | | <1% | | 4% | 10% | <1% | 1% | | | | |
| Calanoida (ci-ciii) | 18% | 10% | 16% | 5% | 4% | | 11% | 18% | | 2% | | | | <1% | | | 3% | | 2% | <1% | | | <1% | 5% | 4% | | | | | |
| Oikopleura spp. | <1% | | 3% | 2% | <1% | | | | 75% | | <1% | | | | | 7% | | 3% | | | | | 6% | | | 2% | <1% | | | |
| Centropages spp. | 10% | | 5% | 1% | | | | | | 77% | | | | | | | | | | | | 5% | 2% | | | | | | | |
| Echinodermata (larvae) | 2% | | | | 18% | | 2% | 2% | 4% | | 12% | | | | | 48% | | | 2% | | | | 2% | 4% | | 2% | | 2% | | |
| Gastropoda (larvae/Limacina) | | 2% | | | | | 2% | | | | | 66% | | 4% | 13% | | | | 13% | | | | | | | | | | | |
| Harpacticoida- epibenthic | 36% | 4% | 9% | 4% | 2% | | | 2% | | | | | 32% | | | | | | | | 11% | | | | | | | | | |
| Hydrozoa (medusa) | | 2% | | | | 4% | 4% | | | | 2% | | | 32% | | 4% | | | | | | | 2% | 11% | | 38% | | | | |
| Bivalvia (larvae) | | | | | | 2% | 2% | | | | | 7% | | 5% | 73% | | | | 2% | | | | | | 9% | | | | | |
| Fritillaria spp. | 3% | | | | 6% | | | | 29% | | | | | | | 62% | | | | | | | | | | | | | | |
| Microcalanus spp. | 6% | 6% | 13% | 10% | | | 13% | 26% | | | | | | | | | 16% | | 3% | | 6% | | | | | | | | | |
| Chaetognatha | | | | | | | | | 29% | | | | | | | | | 64% | 4% | | | | 4% | | | | | | | |
| Polychaeta (larvae) | | 5% | | 5% | | | 5% | | | | | 5% | 5% | | | | | | 45% | | | | 5% | 25% | | | | | | |
| Calanus spp. | | | | 7% | | | | | | 7% | | | | | | | | | | 71% | | | 14% | | | | | | | |
| Eurytemora spp. | 40% | | 10% | 20% | | | | | | 20% | | | | | | | | | | | 10% | | | | | | | | | |
| Tortanus spp. | 50% | | | | | | | | | | | | | | | | | | | | | 50% | | | | | | | | De |
| Decapoda-non brachyura (larvae) | | | | | | | | | | | | | | | | | | | | 100% | | | | | | | | | | |
| | Acartle | · Spp | Temol | Seul Spp. | Oitho, | Bryo. | Podon, Parvae | Calan | Oikop | Centro Spp. | Chin | Castro | Harpa (lande) | Hydro, | Bivall Sod (medi Piber | Pritille lande | Microsop. | Chaele Calanus St. | Polyci | haeta (lan | Curyre sp. | Tortano | Decape | Cirripe | Copepo | Obelie Oda / | Spp | Suphalisiacea (la | Isiacea (nauplii) | |
| | | λ, | λ. | λ. | Thus | 10). 10). | dr. de | Y YS L'S | Spp. Ci.Ci | | | | (larvae) | Vac/lip | CDibenzi | inde | <i>/ 2/0</i> . | 1/3 | Do. | (lan | 190. 190. | <i>S</i> 20. | <i>%</i> , | non | Stacky, | (naug | Vii) (ne | dusa) | rae nauplin | |
| | | | | | | | | | | | | | | 100 | ina) | | | | | | | | | | 1/4/ | (larvae) | | | | |
| | Acartic Static Septiments Septiments Septiments Static Color C | | | | | | | | | | | | | | | t ra | tra nining nsses | | | | | | | | | | | | | |

Actual discarded Taxa



