Use of SCN features: No

Actual Values

Max learning objects: 200 objects/class Strategy N° 12

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, With Calanoida, Cyclopoida and Zooplankton classes in learning set

Confusion Matrix – In percent of Actual Value

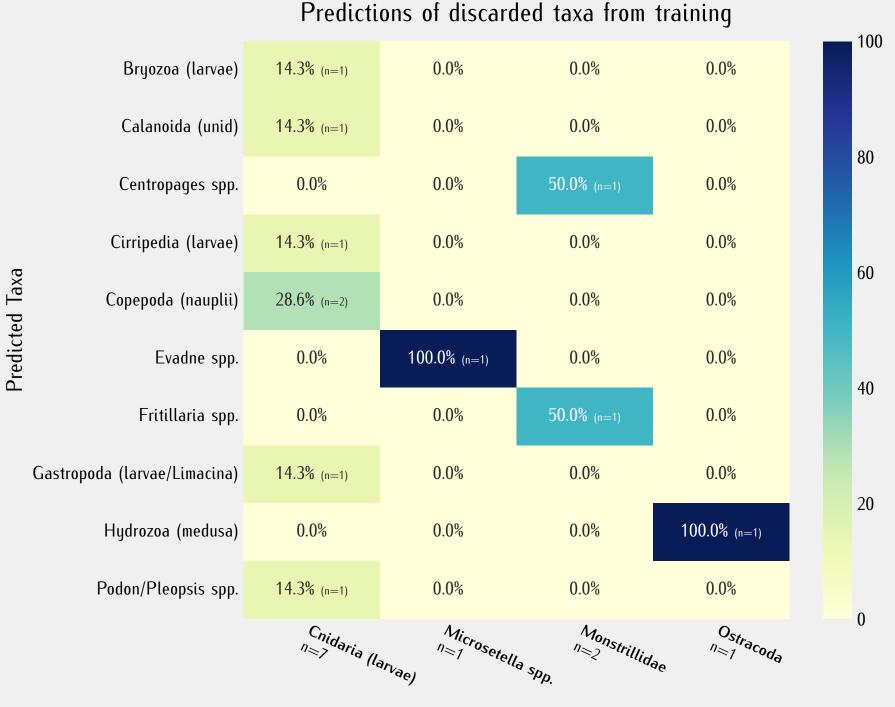
| | Class | ification | Report | Matri | ix |
|---|--------|-----------|---------|-------|-------|
| m | ax 200 | learning | objects | per | class |

precision

recall

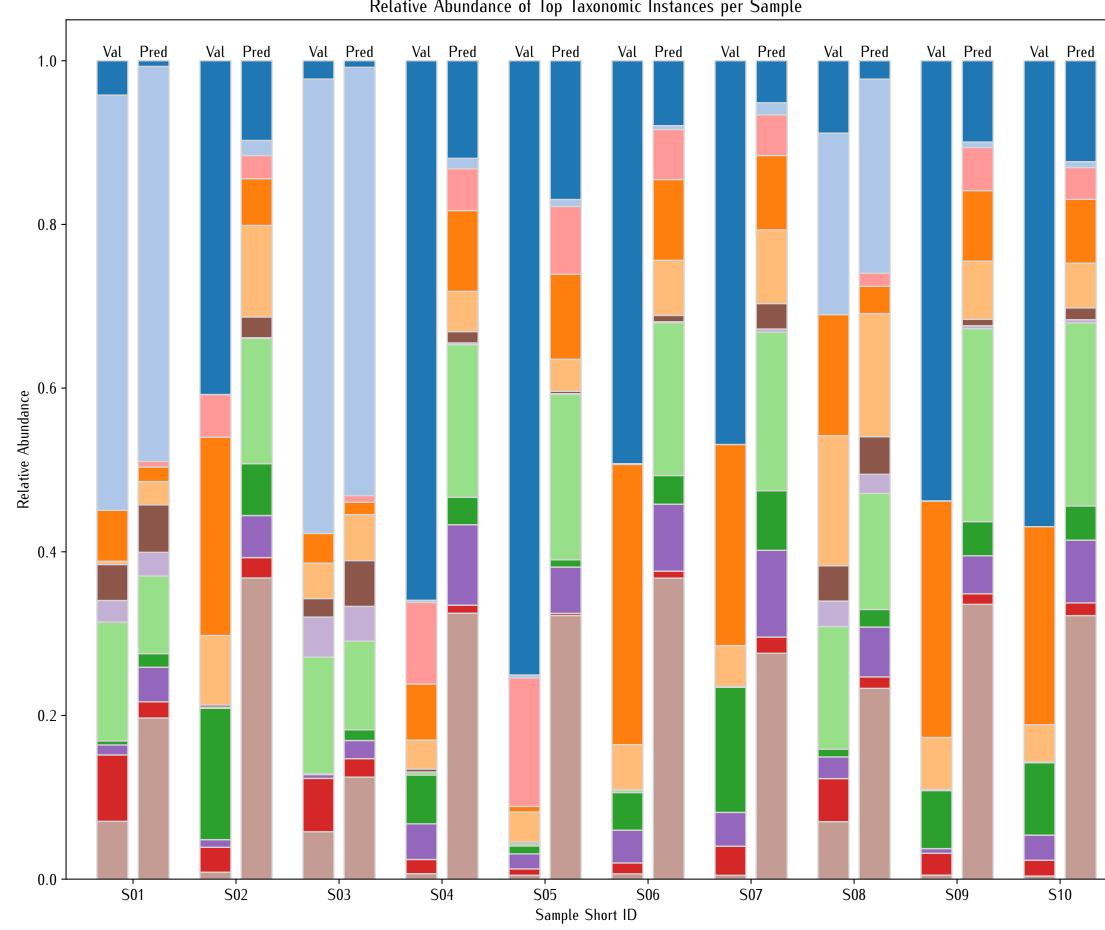
f1-score

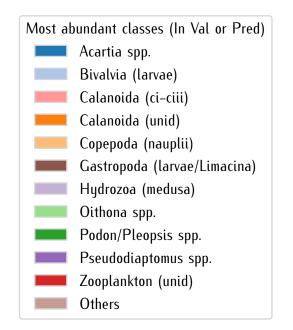
| | | | | | | | | | C | ontus | sion M | Vlatri | x – li | ı perd | ent o | ot Actu | ual \ | Value | e | | | | | | | | | iidx 200 tc | arming object | is per cias. | • |
|---------------------------------|------------|------------|------------|------------|---------------------|-------------------|-------|--------------|--------|--------|------------------|-----------|-----------|------------|----------|--------------------------------|-------|-----------------|-----------------------|----------------|-------------------|----------|----------------|-----------------------|---------------|--------------------|--|-------------|---------------|--------------|-----|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | precision | recall | f1-score | |
| Acartia spp. | 19% | 8 | % < | 1% <1% | 29% <1 | % 4% 5 | % < | <1% <1% | <1% | <1% | <1% | <1% | 1% 2 | <19 | <1% | <1% | 2% | <1% | <1% | <u> <1</u> | 1% <1% <1 | 1% | 11% | 10% <1% | <19 | 2% | Acartia spp. (n=18062-train=200) | 0.98 | 0.19 | 0.32 | |
| Bivalvia (larvae) | 8 | 9% < | 1% 1 | % <1% | 2% | < 1% < | 1% 1 | 1% 5% | | <1% | < | <1% < | :1% | <19 | <1% | | <1% | <1% | | | <1% <1 | 1% | | | | | Bivalvia (larvae) (n=7955-train=200) | | 0.89 | 0.89 | |
| Calanoida (unid) | <1% < | :1% 16 | 6% 4 | % 2% | 10% <1 | % 11% 16 | 5% < | <1% <1% | <1% | 4% | 1% < | <1% 5 | 5% < | % 7% | 9% | <1% | 5% | 4% | <1% | <u> </u> | 1% <1% <1 | 1% | 2% | <1% | | <1% | Calanoida (unid) (n=7711-train=200) | 0.40 | 0.16 | 0.23 | |
| Copepoda (nauplii) | 3 | 3% < | 1% 76 | 5% <1% | <1% 2% | <1% < | 1% | | | 4% | <1% | < | 1% | 3% | 10% | | | 1% | | | <1% <1 | 1% | | | | | Copepoda (nauplii) | 0.61 | 0.76 | 0.67 | |
| Podon/Pleopsis spp. | Ę | 5% < | 1% 17 | 7% 42% | <1% 8% | <1% < | 1% 2 | 2% 14% | <1% | 10% | <1% < | <1% | :1% | <1% | <1% | | <1% | <1% | | <1 | 1% <1 | 1% | <1% | <1% <1% | | | (n=2753-train=200) Podon/Pleopsis spp. | 0.70 | 0.42 | 0.52 | |
| Oithona spp. | <1% | 4 | % < | 1% | 68% | 2% 7 | % | <1% | | <1% | <1% < | <1% 7 | 7% | 3% | 5% | • | <1% | <1% | | | <1% <1 | 1% | <1% | | | | (n=2715-train=200) Oithona spp. | 0.22 | 0.68 | 0.33 | |
| Zooplankton (unid) | 3 | 0% < | 1% 16 | 6% 6% | <1% 14 | % <1% < | 1% 2 | 2% 8% | | 14% | 2% < | <1% < | 1% | <19 | 2% | • | <1% | 2% | | | <1% <1 | 1% | <1% | <1% | | | (n=2572-train=200) Zooplankton (unid) | | | | 1.0 |
| Calanoida (ci-ciii) | | 19 | 9% 3 | % 3% | 7% <1 | % 13% 11 | % | <1% | | 5% | 2% < | <1% 7 | 7% | 5% | 10% | | 8% | 6% | | | <1% <1 | 1% | <1% | | | | (n=1822-train=200) Calanoida (ci-ciii) | 0.54 | 0.14 | 0.20 | |
| Pseudodiaptomus spp. | <1% | 3 | % 1 | % <1% | 14% | 2% 47 | 7% | <1% | | <1% | <1% | 8 | 3% < | % 2% | 10% | | 3% | 3% | <1% | ó | | | 2% | 1% | | <1% | (n=1348-train=200) | 0.10 | 0.13 | 0.11 | |
| Hydrozoa (medusa) | <1% 2 | 2% < | 1% | 4% | 1% <1 | % | 6 | 7% 8% | <1% | 3% | 2% | < | 1% | <19 | <1% | 3% | 4% | <1% | <1% | ó | <1% | | 2% | <1% | | | Pseudodiaptomus spp. (n=1059-train=200) | 0.17 | 0.47 | 0.25 | |
| Gastropoda (larvae/Limacina) | 1 | 4% | 9 | % 10% | 4% | ó <1% < | 1% 2 | 2% 53% | | 5% | 2% | < | 1% | | | | <1% | <1% | | | | | | <1% | | | Hydrozoa (medusa) (n=671-train=200) | | 0.67 | 0.67 | |
| Temora spp. | <1% | 2' | % 1 | % <1% | 1% | <1% 20 |)% < | <1% | 16% | 3% | 2% | 3 | 8% 6 | 1% | 4% | | 7% | 5% | 13% | | | | 8% | 4% <1% | | <1% | Gastropoda (larvae/Limacina) (n=629-train=200) | 0.24 | 0.53 | 0.33 | 0.8 |
| Bryozoa (larvae) | < | (1% < | 1% 19 | 9% 13% | <1% 6% | ó | | 5% | | 53% | 2% | | | | <1% | | | <1% | | | <1% | | <1% | | | | Temora spp. (n=308-train=200) | 0.32 | 0.16 | 0.21 | |
| Polychaeta (larvae) | <1% | < | 1% 30 |)% 5% | 1% 3% | <1% 1 | % | <1% | <1% | 3% | 20% | | | 10% | 4% | 1% | 5% | 12% | | <1 | 1% <1 | 1% < | 1% | <1% | | <1% | Bryozoa (larvae) (n=247-train=200) | 0.10 | 0.53 | 0.17 | |
| Ascidiacea (larvae) | <1% | | | | 3% | < | 1% | | | <1% | 1% | 90% | | | | | | | | <1 | 1% <1% 2% | % 3 | % | | | | Polychaeta (larvae) | 0.17 | 0.20 | 0.18 | |
| Harpacticoida- epibenthic | | 4 | % < | 1% | 13% | 3% 7 | % | | | <1% | | 3 | 1% | 3% | 24% | | 4% | <1% | 2% | | | | 4% | 3% | | | (n=237-train=200) Ascidiacea (larvae) | 0.78 | 0.90 | 0.83 | |
| Centropages spp. | 23% | 2 | % | | 41% | | | | 7% | | | 2 | 2% 11 | % | | | | | | | | | 9% | 2% | | 2% | (n=194-train=200) Harpacticoida- epibenthic | 0.02 | 0.31 | 0.04 | 0.6 |
| Echinodermata (larvae) | | | 3 | % 8% | 3% | 5 | % | | | 3% | | | | 32% | | | 19% | 24% | | | | | | | | 3% | (n=108-train=200) Centropages spp. | 0.02 | | | 0.6 |
| Cyclopoida (unid) | | 4 | % 4 | % | | | | 4% | | | | 1 | 3% | 4% | 65% | | 4% | | | | | | | | | | (n=44-train=200) Echinodermata (larvae) | 0.02 | 0.11 | 0.03 | |
| Obelia spp. (medusa) | | | | | 19% | | 10 | 0% | | 5% | | | | | 10% | 29% | 24% | | | | | | 5% | | | | (n=37-train=200) | | 0.32 | 0.02 | |
| Evadne spp. | | | | | 6% | | | | | 12% | | | | | | | 62% | 12% | | | | | 6% | | | | Cyclopoida (unid) (n=23-train=143) | 0.01 | 0.65 | 0.02 | |
| Cirripedia (larvae) | | | 44 | 1% | 6% | ó | | 6% | | | 12% | | | 6% | | | | 25% | | | | | | | | | Obelia spp. (medusa) (n=21-train=200) | | 0.29 | 0.10 | |
| Chaetognatha | | | | | 8% | | | | | | 1 | 15% | | | | | | | 31% | | 23% 159 | 89 | % | | | | Evadne spp. (n=16-train=200) | 0.01 | 0.62 | 0.02 | 0.4 |
| Pseudocalanus spp. | 29% | | | | | | | | 29% | | | | | | | | | | 14% | | | | 14% | 14% | | | Cirripedia (larvae) (n=16-train=200) | 0.01 | 0.25 | 0.01 | |
| Decapoda-non brachyura (larvae) | | | | | | | | | | | | | | | | | | | | 50 | 9% | 25 | 5% | | 25% | | Chaetognatha (n=13-train=89) | 0.90 | 0.31 | 0.44 | |
| Fritillaria spp. | | | | | | | | | | | | | | | | | | | | | 100% | | | | | | Pseudocalanus spp. | 0.01 | 0.14 | 0.01 | |
| Oikopleura spp. | | | | | | | | | | | | | | | | | | | | | 100% | | | | | | (n=7-train=200) Decapoda-non brachyura (larvae) | 0.00 | 0.50 | 0.15 | |
| Osteichthyes (larvae) | | | | | | | | | | | | | | | | | | | 100% | | | | | | | | (n=4-train=200) Fritillaria spp. (n=3-train=200) | | | 0.03 | 0.2 |
| Paracalanus spp. | | | | | | | | | | | | | | | | | | | | | | | 100% | | | | (n=3-train=200) Oikopleura spp. | | 1.00 | | 0.2 |
| Eurytemora spp. | | | | | | | | | | | | | | | | | | | 100% | ó | | | | | | | (n=2-train=200) Osteichthyes (larvae) | 0.00 | 0.00 | 0.00 | |
| Decapoda-brachyura (zoeae) | | | | | | | | | | | | | | | | | | | | | | | | | 1009 | | (n=1-train=45) | 0.00 | 0.00 | 0.00 | |
| | Acartico S | Sivalvia (| alano. | Open Pode | Oithon | Poplankton (unity | Selle | Hydroxog (me | Temor | Bryon | Polycha (larvae) | Ascidio 1 | Yarpactic | Antro Col | in Gol | Obelia Opoida (1) | Evado | Cirripe Spp. | Chactognation (lange) | 0 | ecapoda hon brace | 140p/ | Osteichthyes / | Curytenora Canus Spp. | Calani al | idocer Tortanus | Paracalanus spp. (n=1-train=200) | 0.00 | 1.00 | 0.00 | |
| | , i | 00. 81 | Carroldo | opepoda (n | Oithona St. Suplii) | Poplankton (unity | Ci. | Apton (Me | DOUG (| 120. S | d (lange | 10 16 AC | | Dida Page | Cerma | Obelia (uni | SDD . | <i>S</i> 20. | dia (lar all | No Cole | any non | SDD (C1) | o nethyles | Curytenora (lan Sp. | Sold branch | idocera Spp. | Eurytemora spp. (n=1-train=200) | 0.00 | 0.00 | 0.00 | |
| | | | %) | (4) | Oithona Sp. Suplii) | n ania | | Hydroxog (me | Ousa) | rooli. | de) | 1 ar | les mar | entropages | %). % | Obelia Opoida (uni de l'arvae) | | r. Pedusa) | 'Vae | · | Spp. bra | Chu. | Osteichthyes / | (arvae) | D. Chyu | | Decapoda-brachyura (zoeae) (n=1-train=200) | 0.00 | 0.00 | 0.00 | 0.0 |
| | | | | | | | | Hydroxod (me | | 'M | deina | | | | thic | ツ | | | | | ecapoda non brad | Ura | (An. | | Poda brachyur | (TORDR) | Calanus spp. (n=0-train=200) | | _ | - | |
| | | | | | | | | | | | | | | | | | | | | | | | de | | | Extra | Labidocera spp. | | _ | _ | |
| | | | | | | | | | | | | F | Predic | ted Vá | lues | | | | | | | | | | | trainin classes | Tortanus spp. | | _ | _ | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | (n=0-train=200) macro avg (corr) | 0.25 | 0.40 | 0.22 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | weighted avg | | 0.39 | 0.42 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | weignieu avg | 0.70 | 0.39 | 0.72 | |



Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample





Relative Abundance of Top Taxonomic Instances per Sample (Redistributed)

