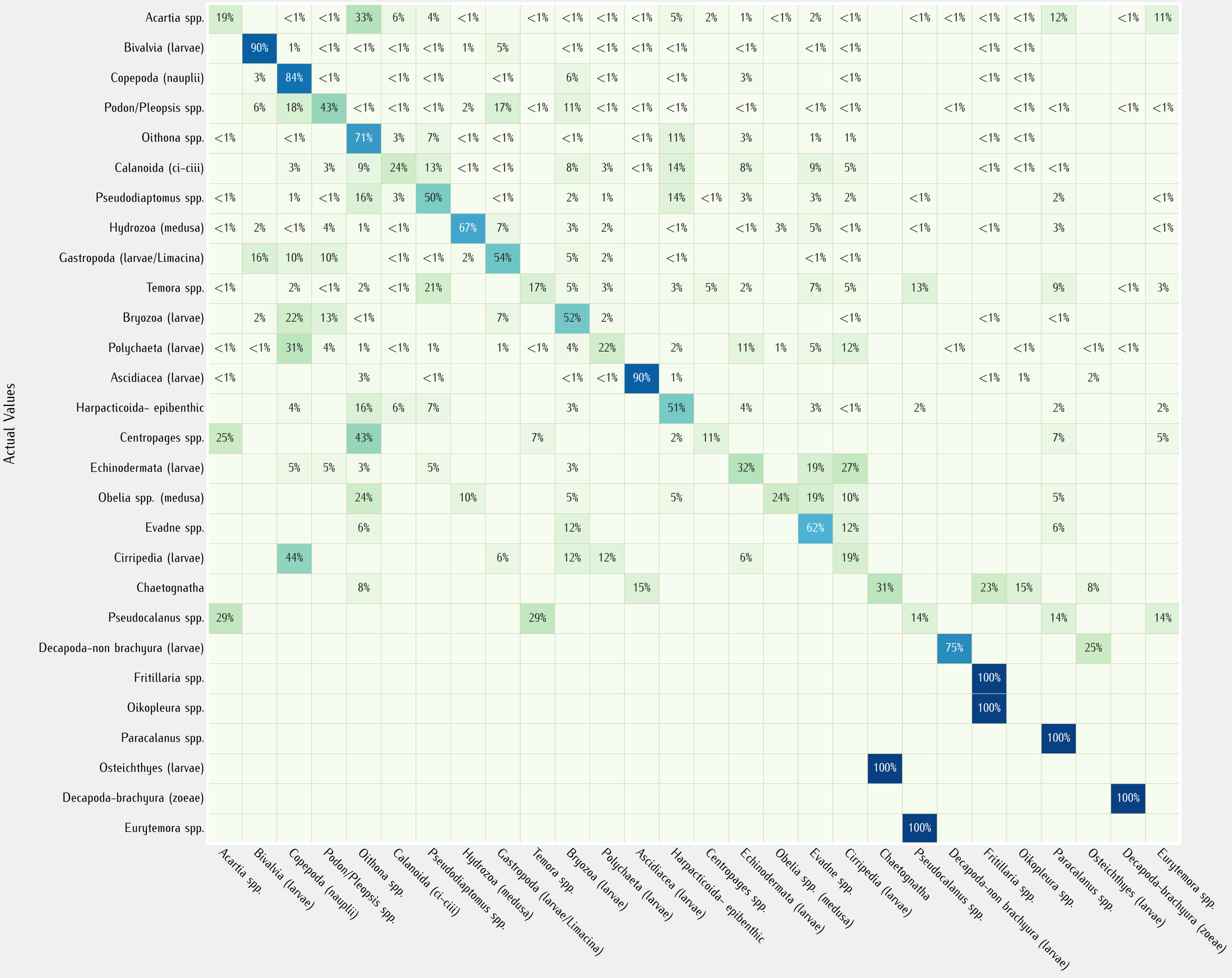
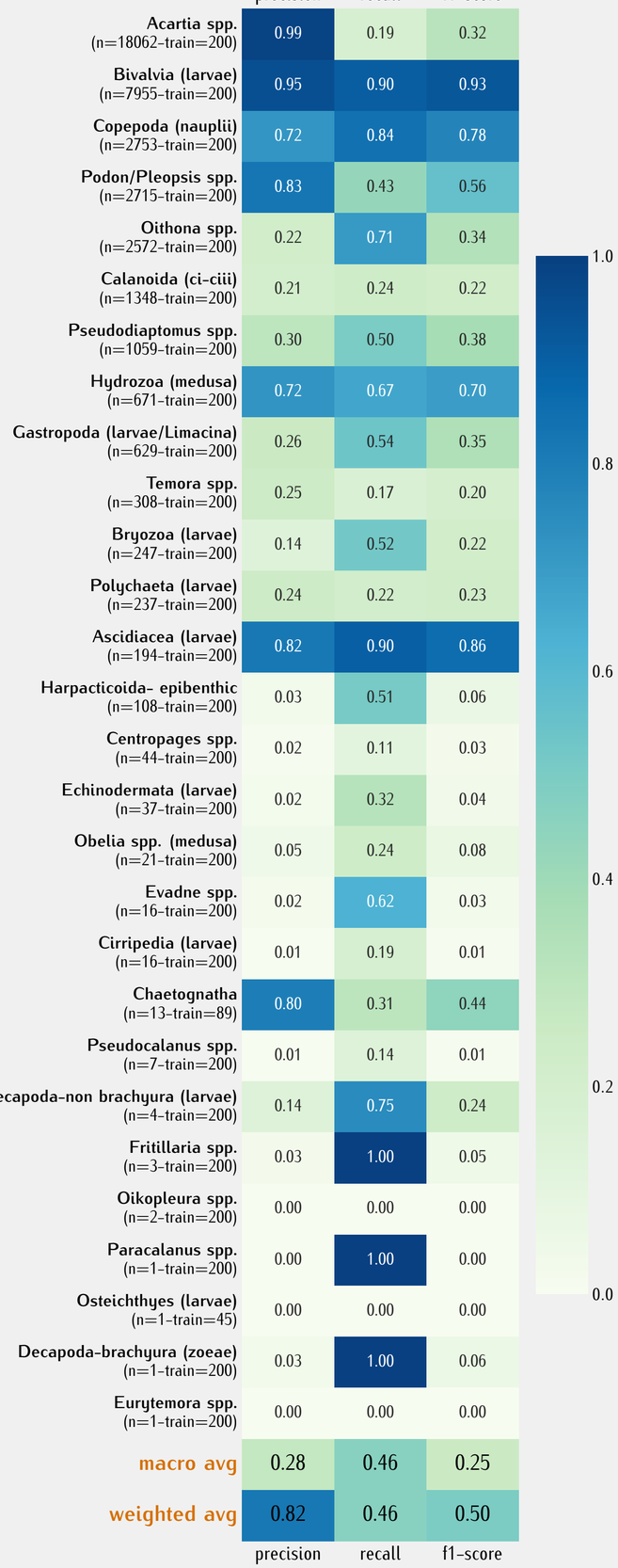
Use of SCN features: No
Max learning objects: 200 objects/class
Strategy N° 7

Gulf Selected Samples prediction using all regions training set, Learning with selected samples classes with no low global training instances, no extra training categories, No Calanoida, Cyclopoida, Zooplankton classes in learning set

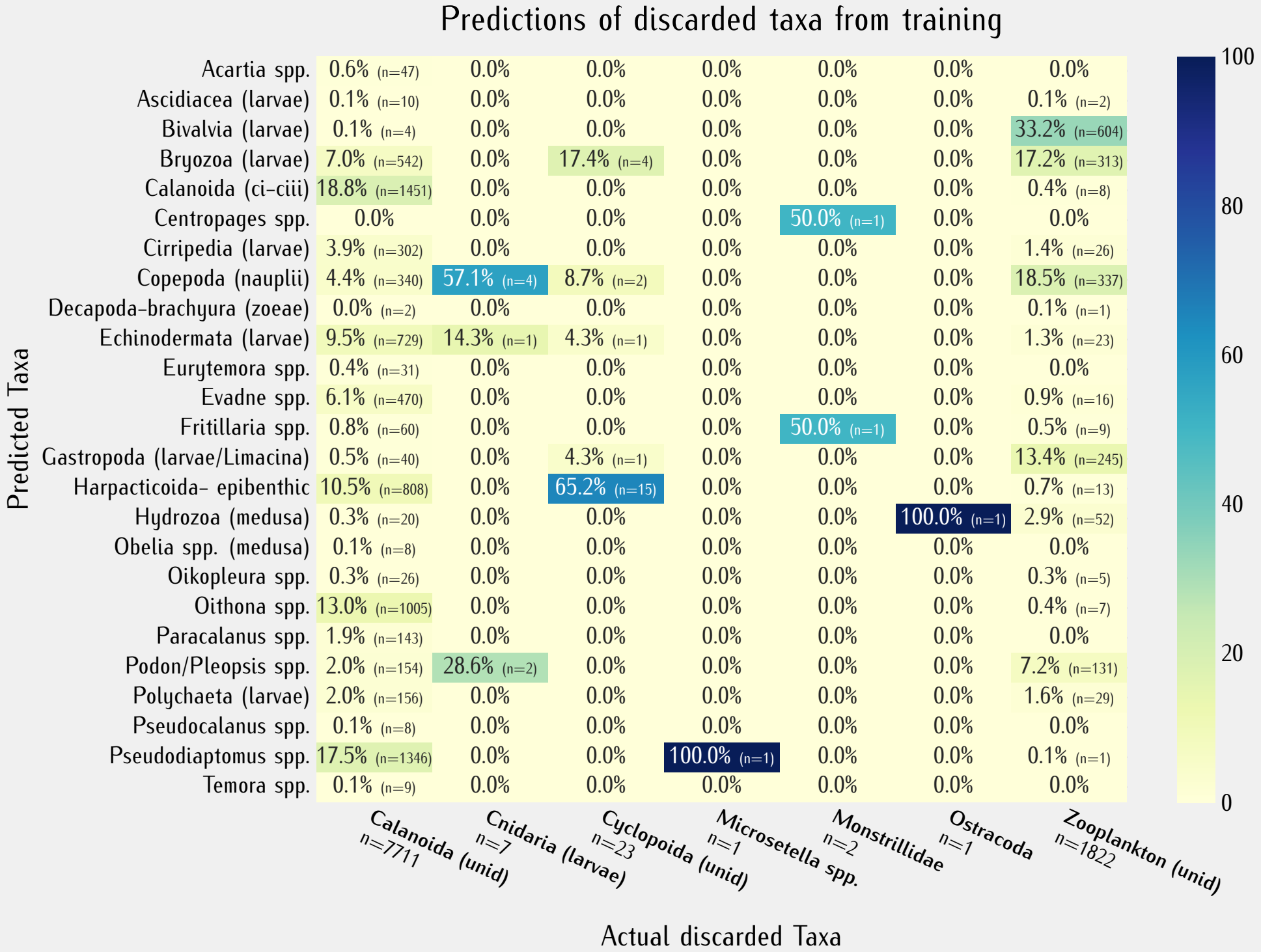
Confusion Matrix – In percent of Actual Value



Classification Report Matrix
max 200 learning objects per class



	precision	recall	f1-score
Acartia spp. (n=18062-train=200)	0.99	0.19	0.32
Bivalvia (larvae) (n=7955-train=200)	0.95	0.90	0.93
Copepoda (nauplii) (n=2753-train=200)	0.72	0.84	0.78
Podon/Pleopsis spp. (n=2715-train=200)	0.83	0.43	0.56
Oithona spp. (n=2572-train=200)	0.22	0.71	0.34
Calanoida (ci-ciii) (n=1348-train=200)	0.21	0.24	0.22
Pseudodiaptomus spp. (n=1059-train=200)	0.30	0.50	0.38
Hydrozoa (medusa) (n=671-train=200)	0.72	0.67	0.70
Gastropoda (larvae/Limacina) (n=629-train=200)	0.26	0.54	0.35
Temora spp. (n=308-train=200)	0.25	0.17	0.20
Bryozoa (larvae) (n=247-train=200)	0.14	0.52	0.22
Polychaeta (larvae) (n=237-train=200)	0.24	0.22	0.23
Ascidiacea (larvae) (n=194-train=200)	0.82	0.90	0.86
Harpacticoida- epibenthic (n=108-train=200)	0.03	0.51	0.06
Centropages spp. (n=44-train=200)	0.02	0.11	0.03
Echinodermata (larvae) (n=37-train=200)	0.02	0.32	0.04
Obelia spp. (medusa) (n=21-train=200)	0.05	0.24	0.08
Evadne spp. (n=16-train=200)	0.02	0.62	0.03
Cirripedia (larvae) (n=16-train=200)	0.01	0.19	0.01
Chaetognatha (n=13-train=89)	0.80	0.31	0.44
Pseudocalanus spp. (n=7-train=200)	0.01	0.14	0.01
Decapoda-non brachyura (larvae) (n=4-train=200)	0.14	0.75	0.24
Fritillaria spp. (n=3-train=200)	0.03	1.00	0.05
Oikopleura spp. (n=2-train=200)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=200)	0.00	1.00	0.00
Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=200)	0.03	1.00	0.06
Eurytemora spp. (n=1-train=200)	0.00	0.00	0.00
macro avg	0.28	0.46	0.25
weighted avg	0.82	0.46	0.50


Predictions of discarded taxa from training
Predicted Taxa
Actual discarded Taxa
Acartia spp. 0.6% (n=47) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Ascidiacea (larvae) 0.1% (n=10) 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=2)
Bivalvia (larvae) 0.1% (n=4) 0.0% 0.0% 0.0% 0.0% 0.0% 33.2% (n=604)
Bryozoa (larvae) 7.0% (n=542) 0.0% 17.4% (n=4) 0.0% 0.0% 0.0% 17.2% (n=313)
Calanoida (ci-ciii) 18.8% (n=1451) 0.0% 0.0% 0.0% 0.0% 0.0% 0.4% (n=8)
Centropages spp. 0.0% 0.0% 0.0% 0.0% 50.0% (n=1) 0.0% 0.0%
Cirripedia (larvae) 3.9% (n=302) 0.0% 0.0% 0.0% 0.0% 0.0% 1.4% (n=26)
Copepoda (nauplii) 4.4% (n=340) 57.1% (n=4) 8.7% (n=2) 0.0% 0.0% 0.0% 18.5% (n=337)
Decapoda-brachyura (zoeae) 0.0% (n=2) 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% (n=1)
Echinodermata (larvae) 9.5% (n=729) 14.3% (n=1) 4.3% (n=1) 0.0% 0.0% 0.0% 1.3% (n=23)
Eurytemora spp. 0.4% (n=31) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Evadne spp. 6.1% (n=470) 0.0% 0.0% 0.0% 0.0% 0.0% 0.9% (n=16)
Fritillaria spp. 0.8% (n=60) 0.0% 0.0% 0.0% 50.0% (n=1) 0.0% 0.5% (n=9)
Gastropoda (larvae/Limacina) 0.5% (n=40) 0.0% 4.3% (n=1) 0.0% 0.0% 0.0% 13.4% (n=245)
Harpacticoida- epibenthic 10.5% (n=808) 0.0% 65.2% (n=15) 0.0% 0.0% 0.0% 0.7% (n=13)
Hydrozoa (medusa) 0.3% (n=20) 0.0% 0.0% 0.0% 0.0% 100.0% (n=1) 2.9% (n=52)
Obelia spp. (medusa) 0.1% (n=8) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Oikopleura spp. 0.3% (n=26) 0.0% 0.0% 0.0% 0.0% 0.0% 0.3% (n=5)
Oithona spp. 13.0% (n=1005) 0.0% 0.0% 0.0% 0.0% 0.0% 0.4% (n=7)
Paracalanus spp. 1.9% (n=143) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Podon/Pleopsis spp. 2.0% (n=154) 28.6% (n=2) 0.0% 0.0% 0.0% 0.0% 7.2% (n=131)
Polychaeta (larvae) 2.0% (n=156) 0.0% 0.0% 0.0% 0.0% 0.0% 1.6% (n=29)
Pseudocalanus spp. 0.1% (n=8) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Pseudodiaptomus spp. 17.5% (n=1346) 0.0% 0.0% 100.0% (n=1) 0.0% 0.0% 0.1% (n=1)
Temora spp. 0.1% (n=9) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%
Calanoida (unid) n=7711
Cnidaria (larvae) n=7
Cyclopoida (unid) n=23
Microsetella spp. n=1
Monstrillidae n=2
Ostracoda n=1
Zooplankton (unid) n=1822
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

S01 S02 S03 S04 S05 S06 S07 S08 S09 S10

Sample Short ID

Most abundant classes (In Val or Pred)
- Acartia spp.
- Bivalvia (larvae)
- Calanoida (ci–ciii)
- Calanoida (unid)
- Copepoda (nauplii)
- Gastropoda (larvae/Limacina)
- Hydrozoa (medusa)
- Oithona spp.
- Podon/Pleopsis spp.
- Pseudodiaptomus spp.
- Zooplankton (unid)
- Others