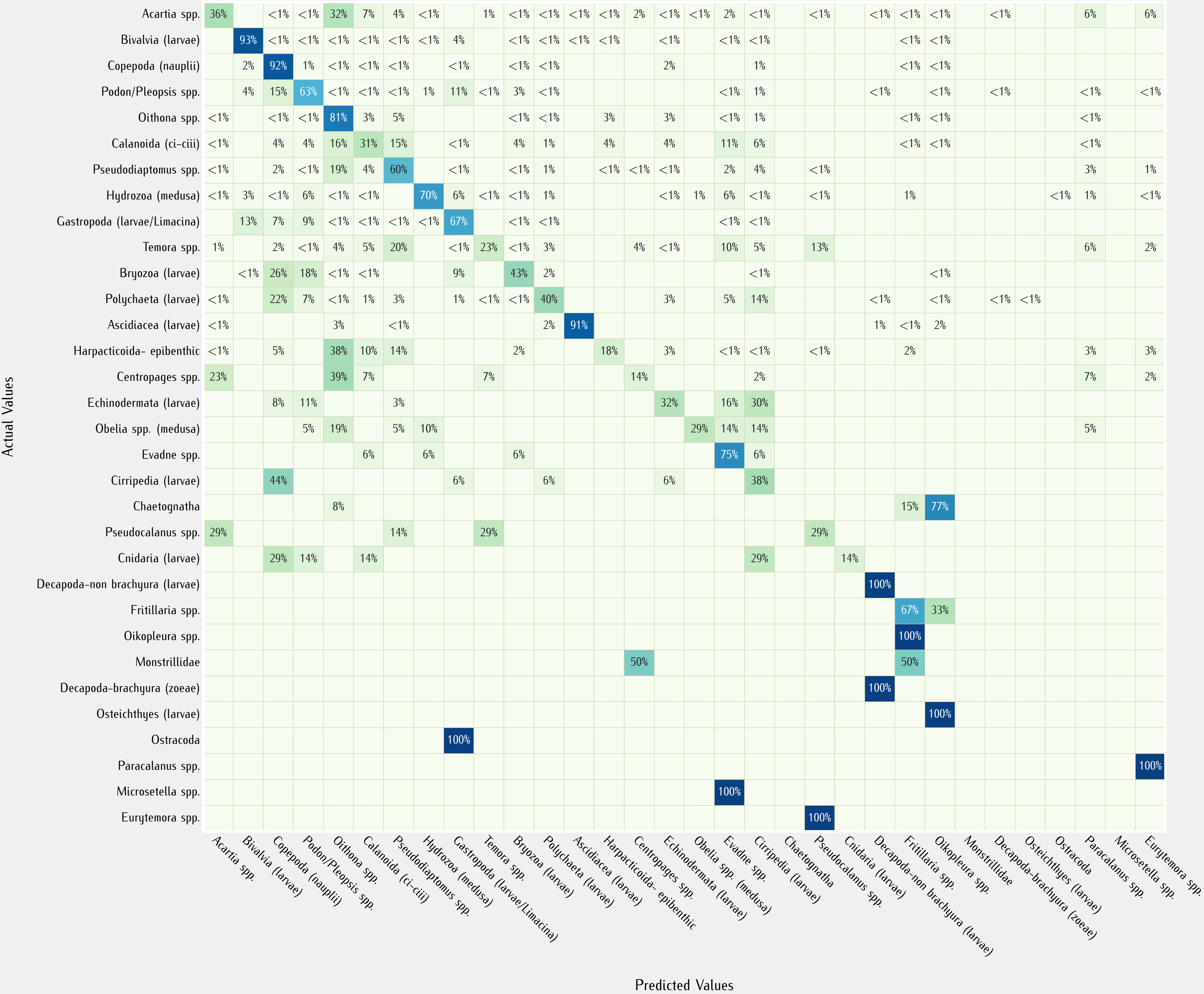


Use of SCN features: Yes
Max learning objects: 5000 objects/class
Strategy N° 5

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

Confusion Matrix – In percent of Actual Value



Classification Report Matrix max 5000 learning objects per class			
	precision	recall	f1-score
Acartia spp. (n=18062-train=5000)	0.99	0.36	0.53
Bivalvia (larvae) (n=7955-train=3764)	0.97	0.93	0.95
Copepoda (nauplii) (n=2753-train=5000)	0.77	0.92	0.84
Podon/Pleopsis spp. (n=2715-train=5000)	0.84	0.63	0.72
Oithona spp. (n=2572-train=5000)	0.25	0.81	0.38
Calanoida (ci-ciii) (n=1348-train=5000)	0.22	0.31	0.26
Pseudodiaptomus spp. (n=1059-train=2113)	0.35	0.60	0.44
Hydrozoa (medusa) (n=671-train=4052)	0.88	0.70	0.78
Gastropoda (larvae/Limacina) (n=629-train=3272)	0.39	0.67	0.49
Temora spp. (n=308-train=5000)	0.26	0.23	0.24
Bryozoa (larvae) (n=247-train=1142)	0.33	0.43	0.37
Polychaeta (larvae) (n=237-train=1577)	0.53	0.40	0.46
Ascidacea (larvae) (n=194-train=861)	0.96	0.91	0.93
Harpacticoida- epibenthic (n=108-train=555)	0.06	0.18	0.09
Centropages spp. (n=44-train=3620)	0.02	0.14	0.03
Echinodermata (larvae) (n=37-train=3043)	0.04	0.32	0.07
Obelia spp. (medusa) (n=21-train=1003)	0.22	0.29	0.25
Evadne spp. (n=16-train=5000)	0.02	0.75	0.03
Cirripedia (larvae) (n=16-train=5000)	0.01	0.38	0.02
Chaetognatha (n=13-train=89)	0.00	0.00	0.00
Pseudocalanus spp. (n=7-train=4845)	0.01	0.29	0.02
Cnidaria (larvae) (n=7-train=25)	1.00	0.14	0.25
Decapoda-non brachyura (larvae) (n=4-train=423)	0.36	1.00	0.53
Fritillaria spp. (n=3-train=5000)	0.02	0.67	0.03
Oikopleura spp. (n=2-train=5000)	0.00	0.00	0.00
Monstrillidae (n=2-train=27)	0.00	0.00	0.00
Decapoda-brachyura (zoeae) (n=1-train=628)	0.00	0.00	0.00
Osteichthyes (larvae) (n=1-train=45)	0.00	0.00	0.00
Ostracoda (n=1-train=25)	0.00	0.00	0.00
Paracalanus spp. (n=1-train=1619)	0.00	0.00	0.00
Microsetella spp. (n=1-train=4)	0.00	0.00	0.00
Eurytemora spp. (n=1-train=1818)	0.00	0.00	0.00
macro avg	0.30	0.38	0.27
weighted avg	0.84	0.58	0.63
	precision	recall	f1-score

Predictions of discarded taxa from training

Predicted Taxa

Acartia spp.	1.6% (n=124)	0.0%	0.0%
Ascidacea (larvae)	0.0%	0.0%	0.1% (n=2)
Bivalvia (larvae)	0.0% (n=2)	0.0%	32.4% (n=591)
Bryozoa (larvae)	3.2% (n=246)	17.4% (n=4)	7.5% (n=137)
Calanoida (ci-ciui)	25.3% (n=1952)	0.0%	1.0% (n=19)
Centropages spp.	0.0% (n=2)	0.0%	0.0%
Cirripedia (larvae)	4.6% (n=357)	4.3% (n=1)	1.7% (n=31)
Copepoda (nauplii)	5.1% (n=393)	13.0% (n=3)	22.9% (n=417)
Echinodermata (larvae)	5.0% (n=382)	4.3% (n=1)	1.0% (n=19)
Eurytemora spp.	0.2% (n=19)	0.0%	0.0%
Evadne spp.	7.1% (n=546)	4.3% (n=1)	1.0% (n=18)
Fritillaria spp.	0.8% (n=63)	0.0%	0.3% (n=5)
Gastropoda (larvae/Limacina)	0.8% (n=58)	0.0%	14.3% (n=260)
Harpacticoida- epibenthic	2.2% (n=167)	21.7% (n=5)	0.1% (n=2)
Hydrozoa (medusa)	0.1% (n=7)	0.0%	1.8% (n=32)
Obelia spp. (medusa)	0.1% (n=4)	0.0%	0.1% (n=1)
Oikopleura spp.	0.4% (n=29)	0.0%	0.4% (n=8)
Oithona spp.	20.1% (n=1552)	4.3% (n=1)	0.4% (n=8)
Paracalanus spp.	1.1% (n=81)	0.0%	0.0%
Podon/Pleopsis spp.	2.7% (n=206)	4.3% (n=1)	13.2% (n=241)
Polychaeta (larvae)	0.8% (n=64)	4.3% (n=1)	1.2% (n=21)
Pseudocalanus spp.	0.1% (n=6)	0.0%	0.0%
Pseudodiaptomus spp.	18.7% (n=1440)	21.7% (n=5)	0.5% (n=9)
Temora spp.	0.1% (n=11)	0.0%	0.1% (n=1)
<div>Calanoida (unid) n=7711</div> <div>Cyclopoida (unid) n=23</div> <div>Zooplankton (unid) n=1822</div>			

Actual discarded Taxa

30

25

20

15

10

5

0

Relative Abundance of Top Taxonomic Instances per Sample

