PA Selected Samples prediction using all regions training set,
Learning with all classes present in the selected samples, with extra regional training categories,
No Calanoida (civ-vi), Cyclopoida, Zooplankton classes in learning set

Use of SCN features: Yes
Max learning objects: 5000 objects/class
Strategy N° 6

Confusion Matrix - In percent of Actual Value

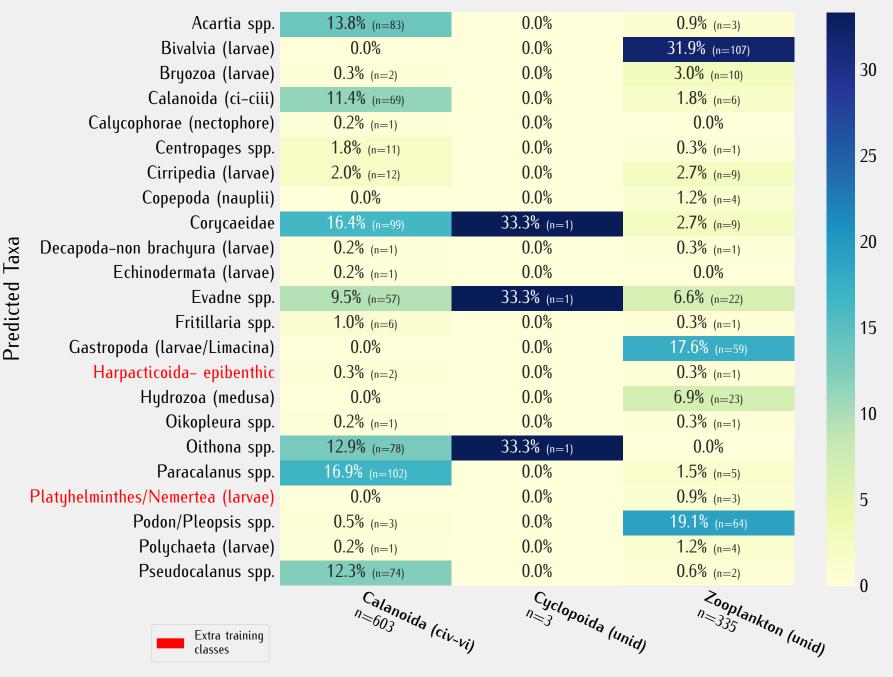Classification Report Matrix
max 5000 learning objects per class

	precision	recall	f1-score
Cirripedia (larvae) (n=3231-train=5000)	0.94	0.69	0.80
Acartia spp. (n=2290-train=5000)	0.89	0.43	0.58
Oikopleura spp. (n=1773-train=5000)	0.89	0.68	0.77
Podon/Pleopsis spp. (n=607-train=5000)	0.34	0.43	0.38
Fritillaria spp. (n=475-train=5000)	0.46	0.57	0.51
Evadne spp. (n=358-train=5000)	0.32	0.69	0.43
Corycaeidae (n=335-train=1760)	0.36	0.69	0.48
Calanoida (ci-ciii) (n=150-train=5000)	0.13	0.16	0.14
Paracalanus spp. (n=141-train=1619)	0.19	0.57	0.28
Gastropoda (larvae/Limacina) (n=126-train=3272)	0.43	0.56	0.48
Bivalvia (larvae) (n=96-train=3764)	0.83	0.80	0.81
Polychaeta (larvae) (n=65-train=1577)	0.28	0.28	0.28
Hydrozoa (medusa) (n=55-train=4052)	0.21	0.69	0.32
Centropages spp. (n=50-train=3620)	0.18	0.42	0.25
Echinodermata (larvae) (n=42-train=3043)	0.00	0.00	0.00
Calycophorae (nectophore) (n=37-train=966)	0.24	0.76	0.36
Decapoda-brachyura (zoeae) (n=32-train=628)	0.26	0.62	0.37
Ctenophora (larvae) (n=31-train=42)	0.50	0.03	0.06
Decapoda-non brachyura (larvae) (n=26-train=423)	0.45	0.65	0.53
Ostracoda (n=25-train=25)	0.25	0.16	0.20
Tortanus spp. (n=24-train=203)	0.38	0.21	0.27
Ascidiacea (larvae) (n=23-train=861)	0.74	0.61	0.67
Oithona spp. (n=17-train=5000)	0.01	0.41	0.03
Pseudocalanus spp. (n=7-train=4845)	0.03	1.00	0.06
Calanus spp. (n=6-train=359)	0.17	0.17	0.17
Copepoda (nauplii) (n=4-train=5000)	0.05	0.50	0.09
Euphysa spp. (medusa) (n=3-train=3)	0.00	0.00	0.00
Bryozoa (larvae) (n=1-train=1142)	0.00	0.00	0.00
Harpacticoida- epibenthic (n=0-train=555)	–	–	–
Platyhelminthes/Nemertea (larvae) (n=0-train=183)	–	–	–
macro avg (corr)	0.34	0.46	0.33
weighted avg	0.76	0.58	0.64

Predictions of discarded taxa from training

Predicted Taxa	Calanoida (civ-vi) n=603	Cyclopoida (unid) n=3	Zooplankton (unid) n=335
Acartia spp.	13.8% (n=83)	0.0%	0.9% (n=3)
Bivalvia (larvae)	0.0%	0.0%	31.9% (n=107)
Bryozoa (larvae)	0.3% (n=2)	0.0%	3.0% (n=10)
Calanoida (ci–ciii)	11.4% (n=69)	0.0%	1.8% (n=6)
Calycophorae (nectophore)	0.2% (n=1)	0.0%	0.0%
Centropages spp.	1.8% (n=11)	0.0%	0.3% (n=1)
Cirripedia (larvae)	2.0% (n=12)	0.0%	2.7% (n=9)
Copepoda (nauplii)	0.0%	0.0%	1.2% (n=4)
Corycaeidae	16.4% (n=99)	33.3% (n=1)	2.7% (n=9)
Decapoda-non brachyura (larvae)	0.2% (n=1)	0.0%	0.3% (n=1)
Echinodermata (larvae)	0.2% (n=1)	0.0%	0.0%
Evadne spp.	9.5% (n=57)	33.3% (n=1)	6.6% (n=22)
Fritillaria spp.	1.0% (n=6)	0.0%	0.3% (n=1)
Gastropoda (larvae/Limacina)	0.0%	0.0%	17.6% (n=59)
Harpacticoida- epibenthic	0.3% (n=2)	0.0%	0.3% (n=1)
Hydrozoa (medusa)	0.0%	0.0%	6.9% (n=23)
Oikopleura spp.	0.2% (n=1)	0.0%	0.3% (n=1)
Oithona spp.	12.9% (n=78)	33.3% (n=1)	0.0%
Paracalanus spp.	16.9% (n=102)	0.0%	1.5% (n=5)
Platyhelminthes/Nemertea (larvae)	0.0%	0.0%	0.9% (n=3)
Podon/Pleopsis spp.	0.5% (n=3)	0.0%	19.1% (n=64)
Polychaeta (larvae)	0.2% (n=1)	0.0%	1.2% (n=4)
Pseudocalanus spp.	12.3% (n=74)	0.0%	0.6% (n=2)

Extra training classes

Actual discarded Taxa

Relative Abundance of Top Taxonomic Instances per Sample

Most abundant classes (In Val or Pred)
- Acartia spp.
- Calanoida (ci–ciii)
- Calanoida (civ–vi)
- Cirripedia (larvae)
- Corycaeidae
- Evadne spp.
- Fritillaria spp.
- Oikopleura spp.
- Paracalanus spp.
- Podon/Pleopsis spp.
- Zooplankton (unid)
- Others