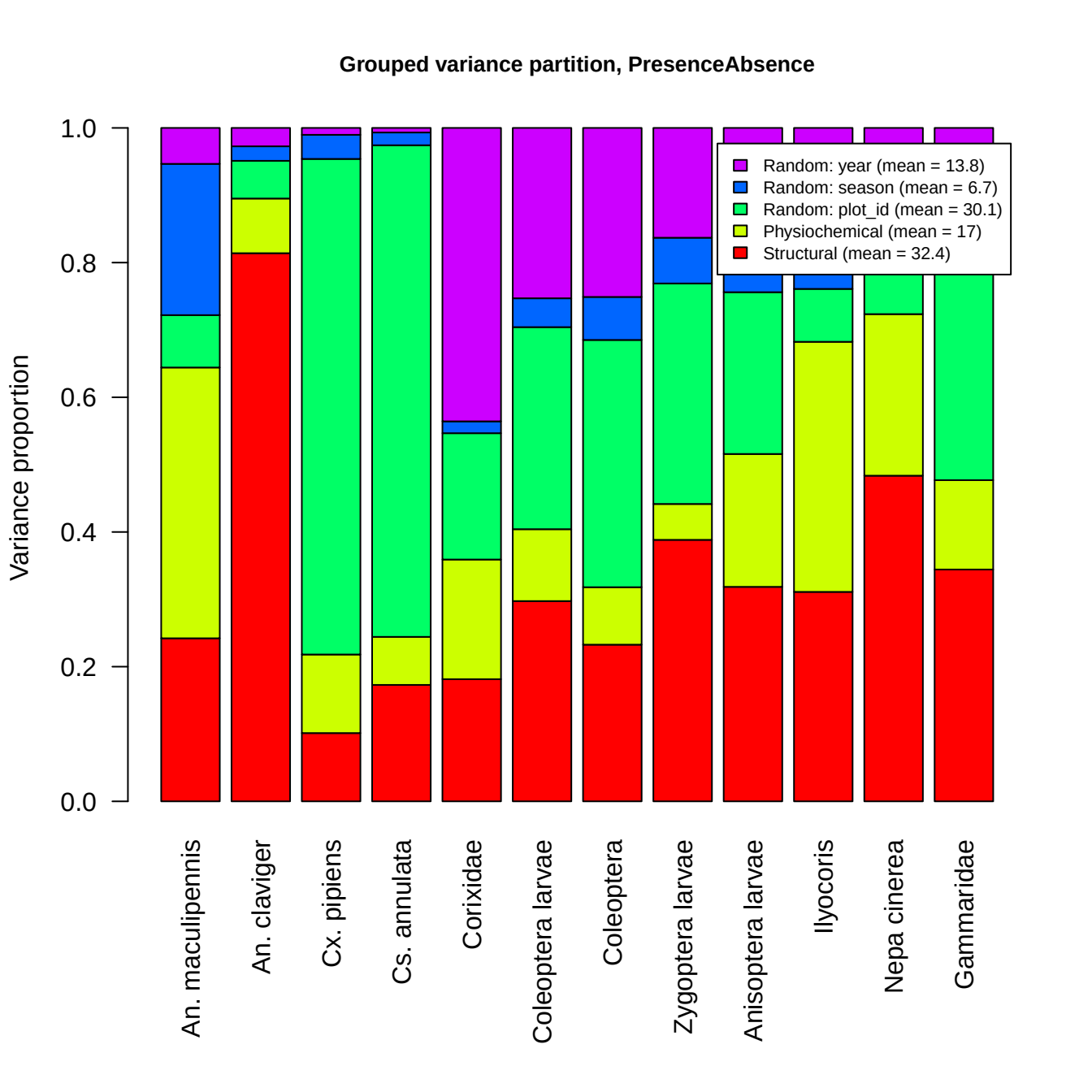
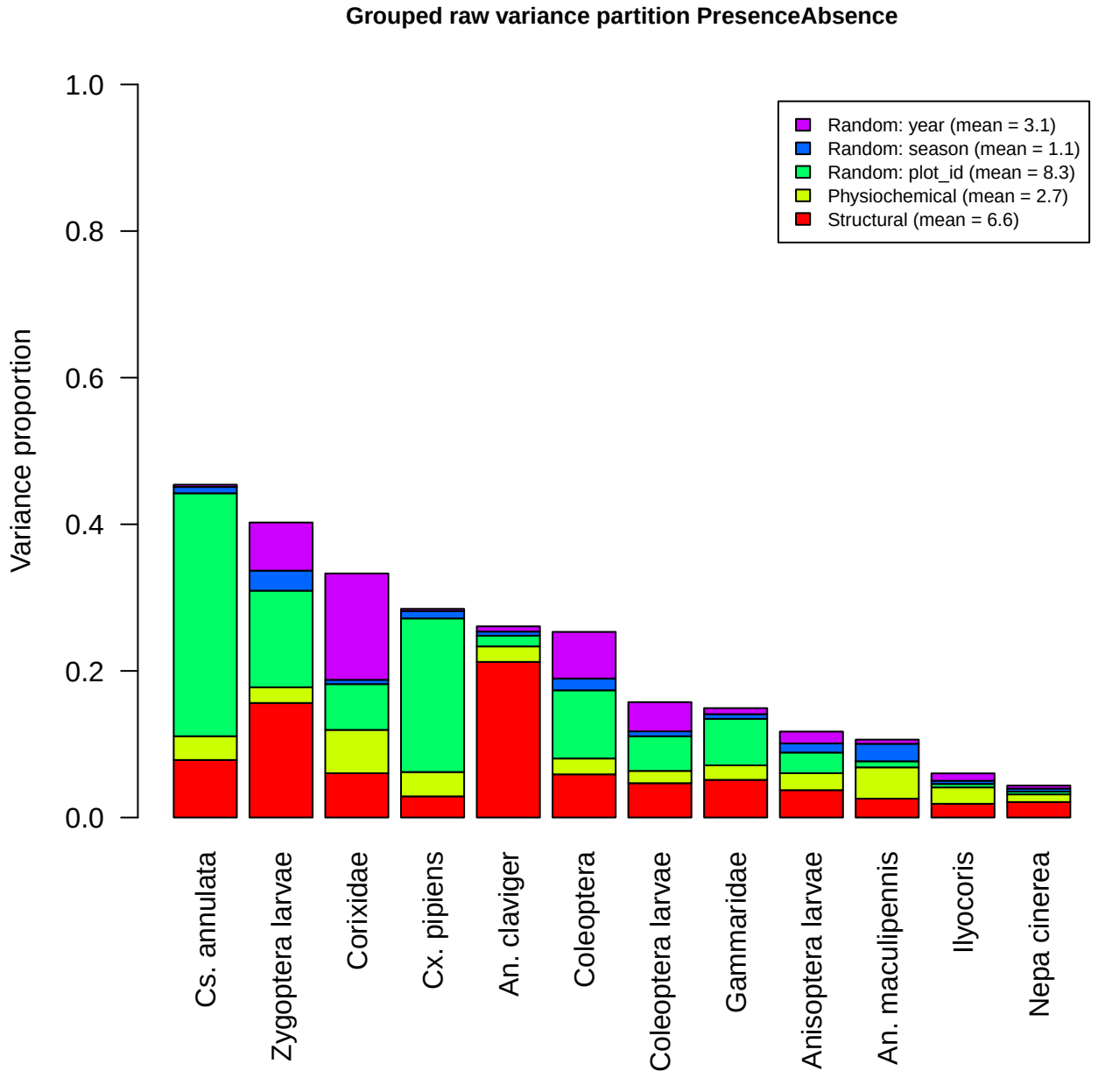
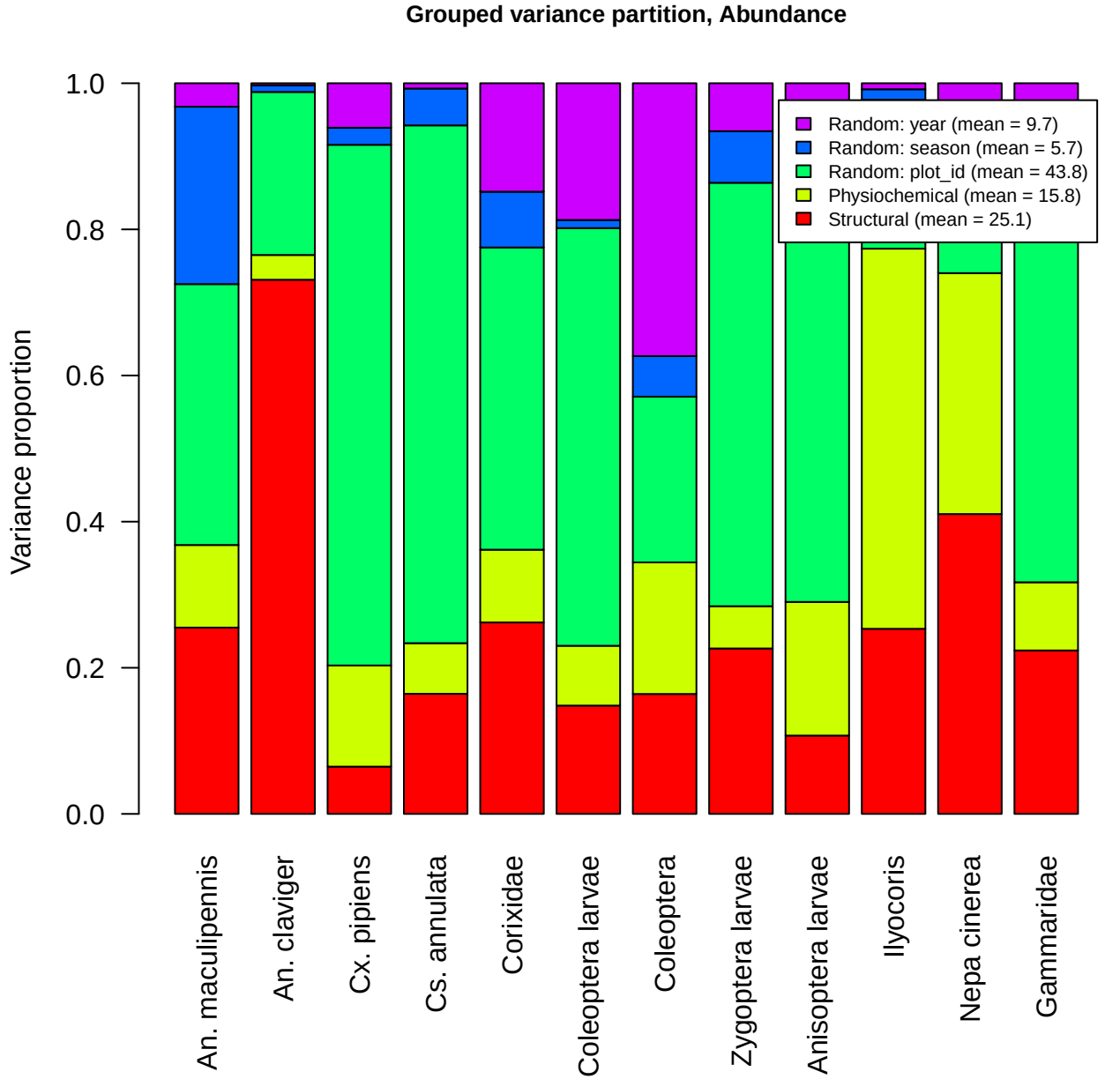
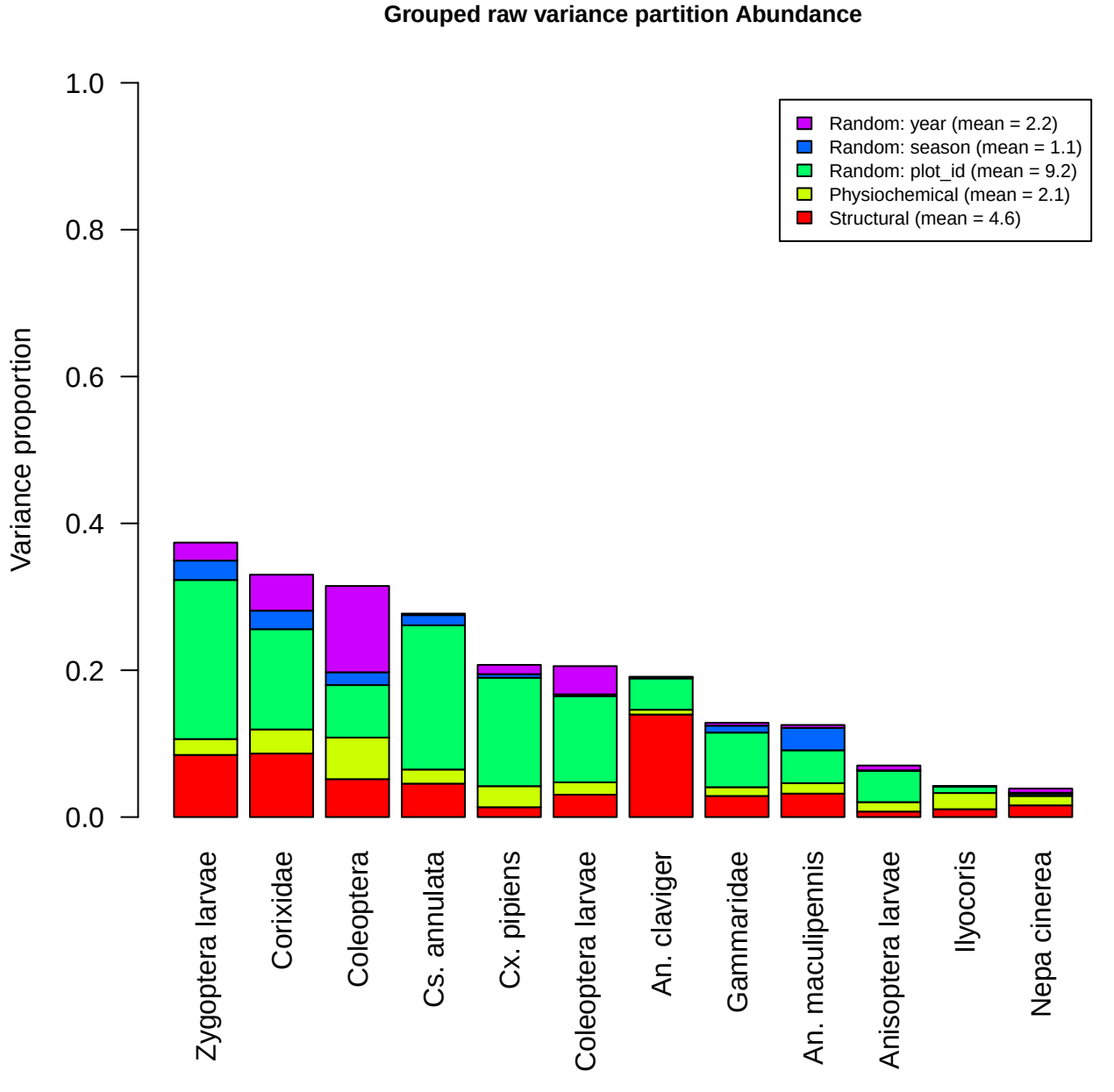
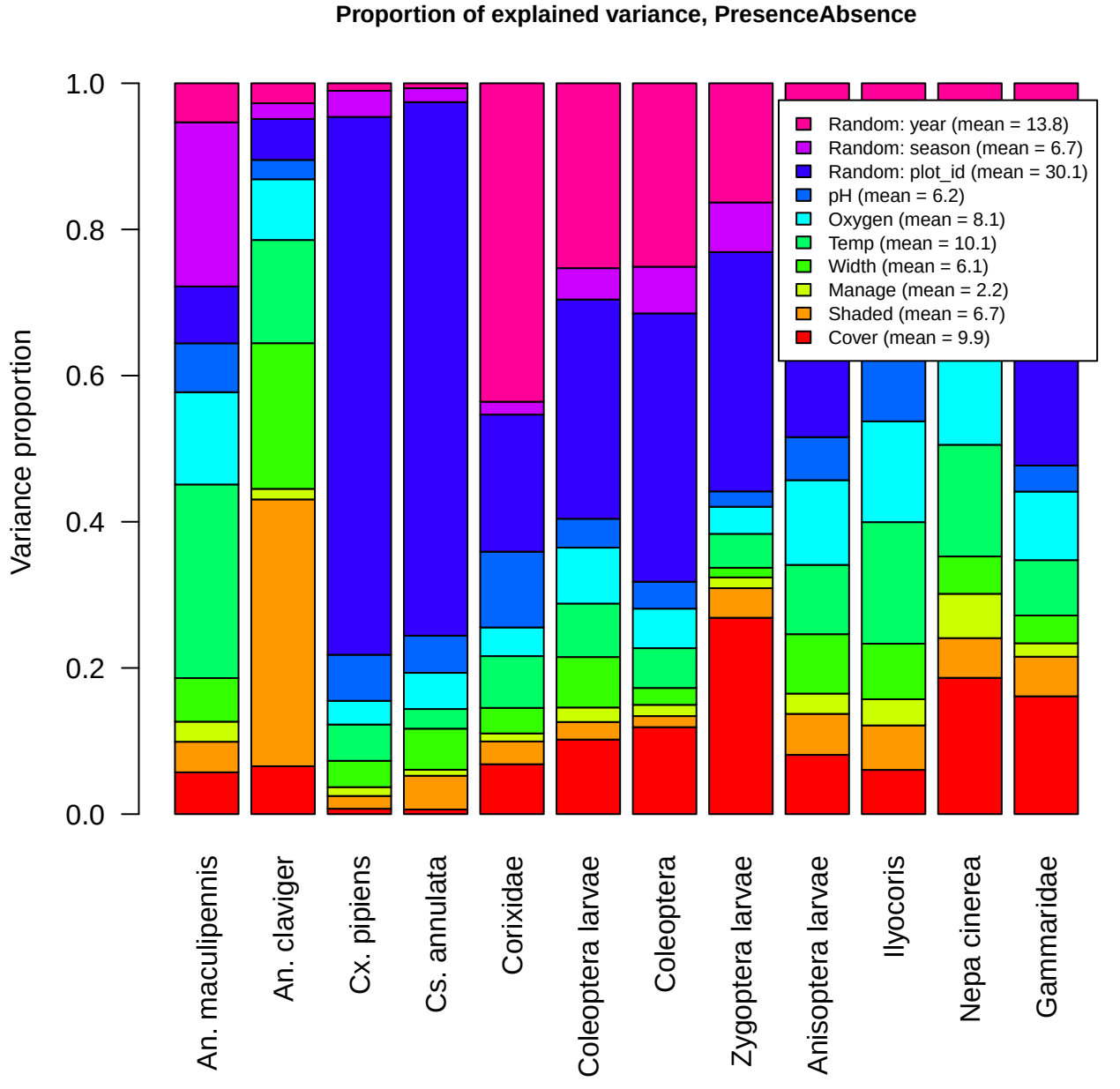
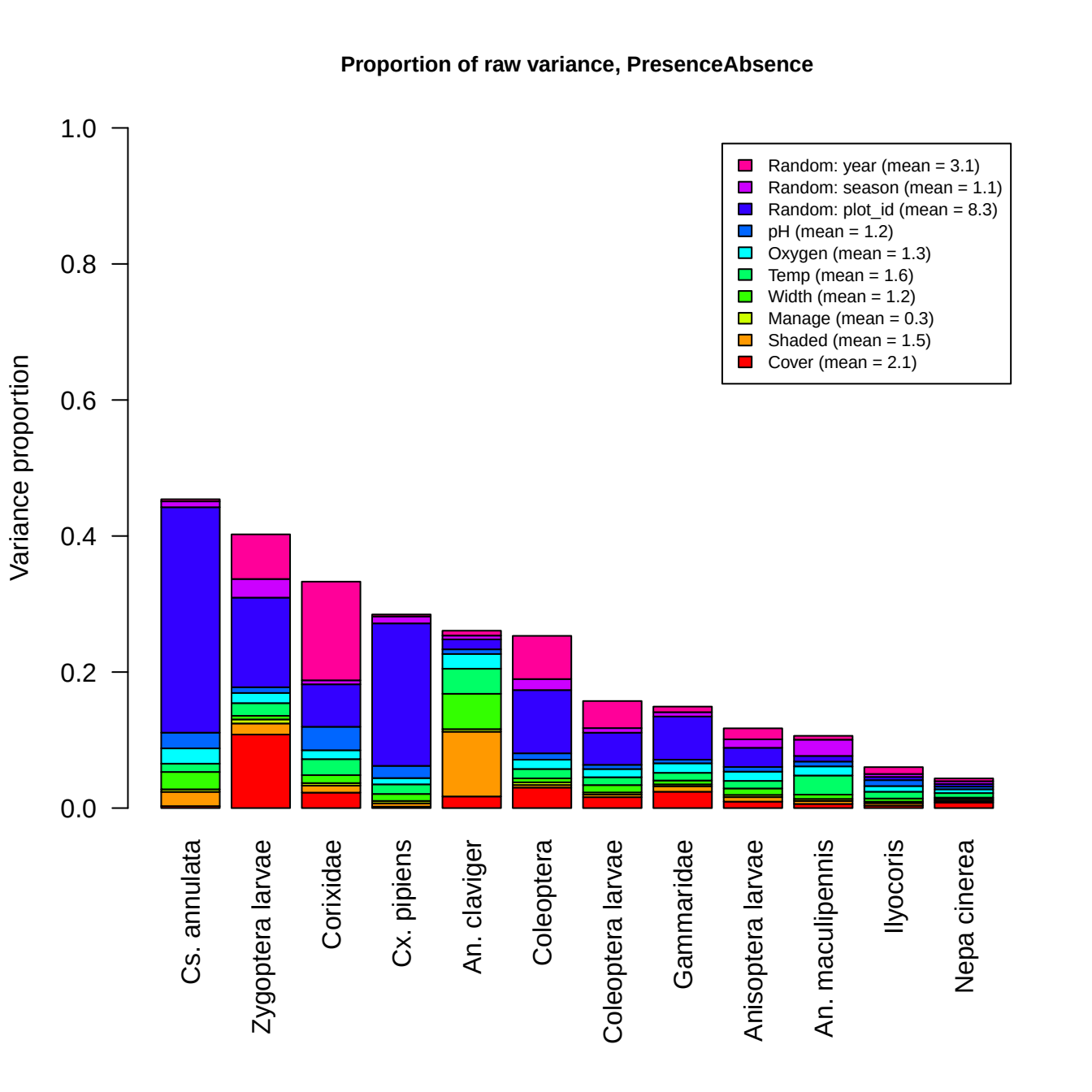

Grouped variance partition, PresenceAbsence
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: year (mean = 13.8)
Random: season (mean = 6.7)
Random: plot_id (mean = 30.1)
Physiochemical (mean = 17)
Structural (mean = 32.4)
An. maculipennis
An. claviger
Cx. pipiens
Cs. annulata
Corixidae
Coleoptera larvae
Coleoptera
Zygoptera larvae
Anisoptera larvae
Ilyocoris
Nepa cinerea
Gammaridae

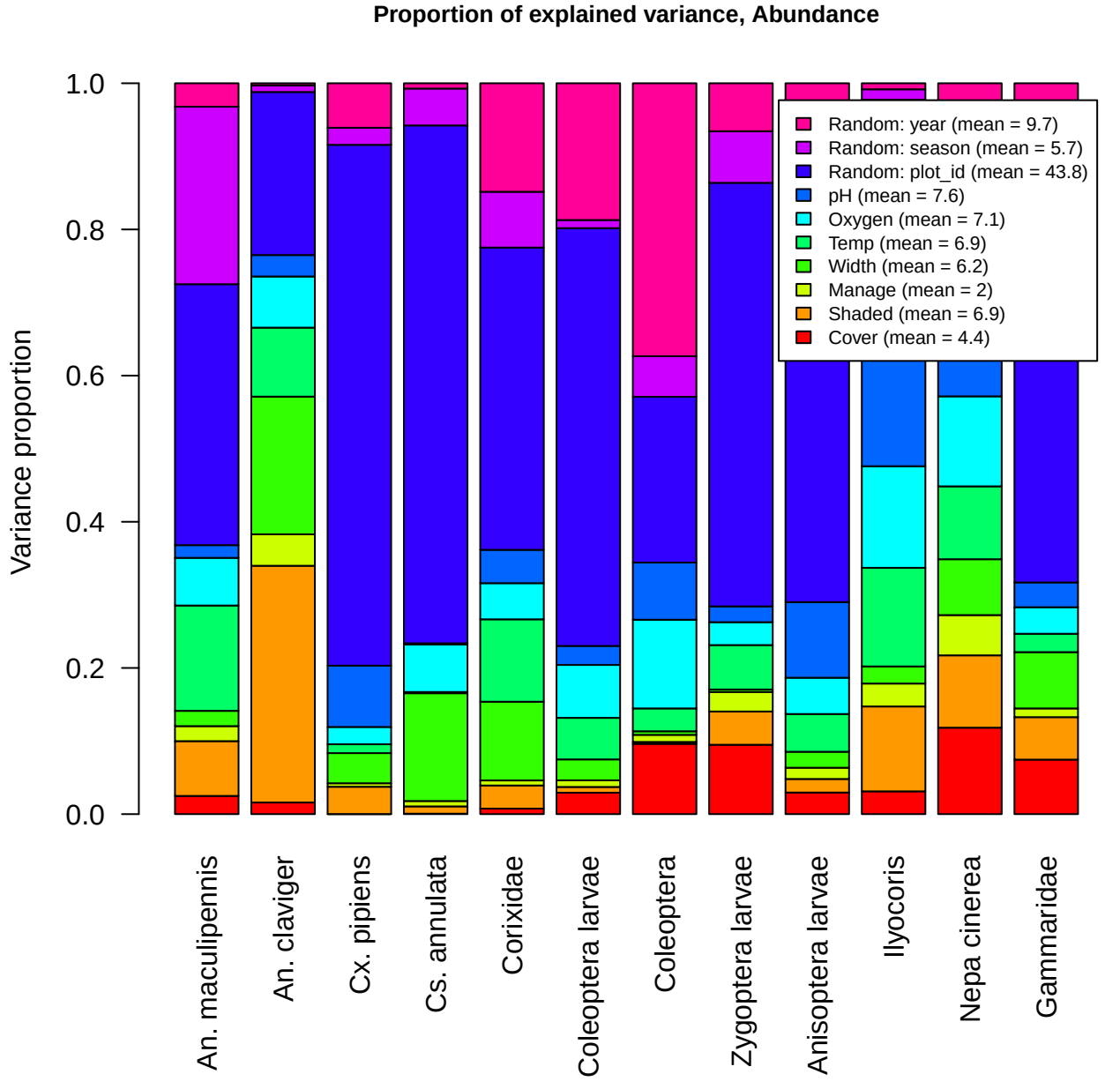

Grouped raw variance partition PresenceAbsence
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: year (mean = 3.1)
Random: season (mean = 1.1)
Random: plot_id (mean = 8.3)
Physiochemical (mean = 2.7)
Structural (mean = 6.6)
Cs. annulata
Zygoptera larvae
Corixidae
Cx. pipiens
An. claviger
Coleoptera
Coleoptera larvae
Gammaridae
Anisoptera larvae
An. maculipennis
Ilyocoris
Nepa cinerea

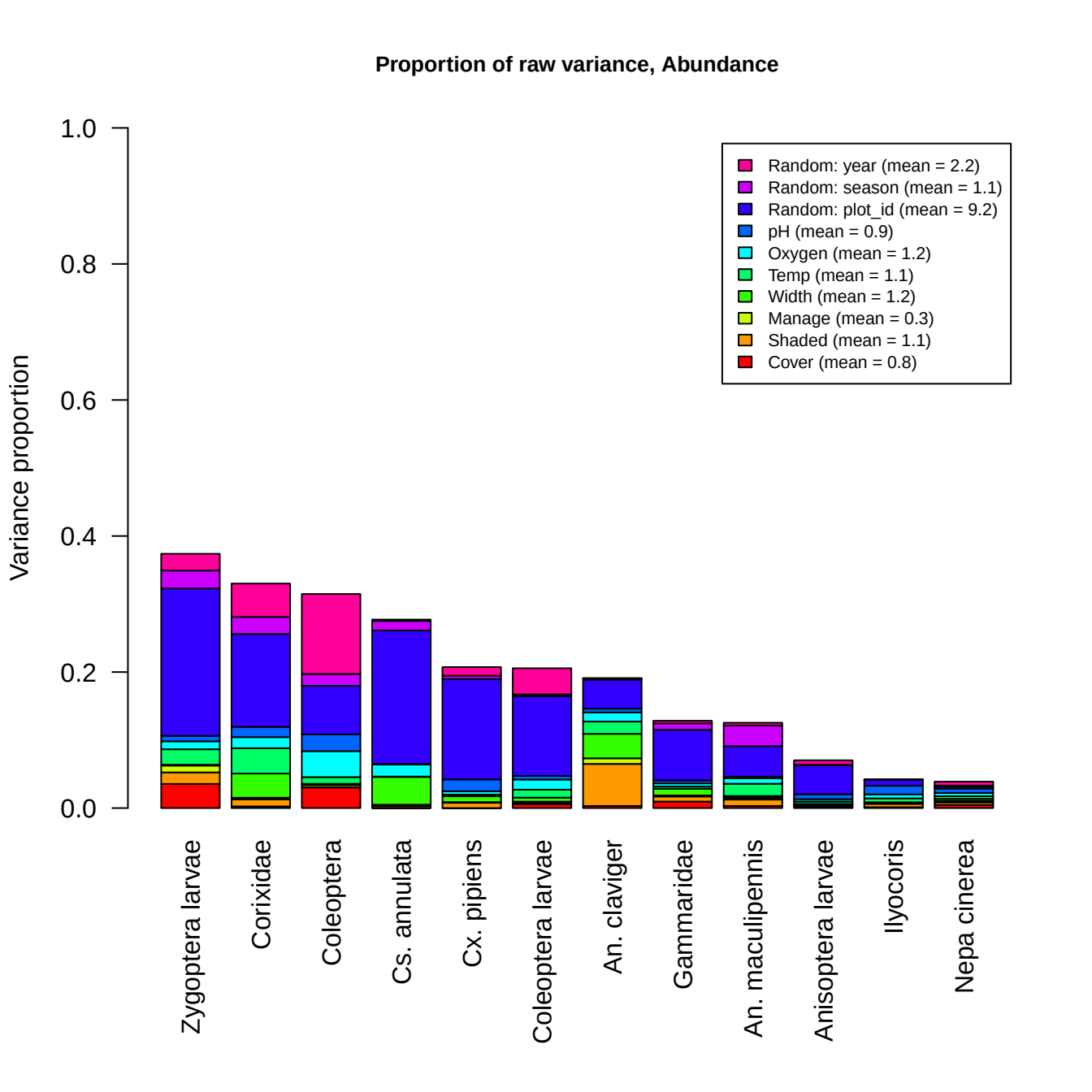

Grouped variance partition, Abundance
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: year (mean = 9.7)
Random: season (mean = 5.7)
Random: plot_id (mean = 43.8)
Physiochemical (mean = 15.8)
Structural (mean = 25.1)
An. maculipennis
An. claviger
Cx. pipiens
Cs. annulata
Corixidae
Coleoptera larvae
Coleoptera
Zygoptera larvae
Anisoptera larvae
Ilyocoris
Nepa cinerea
Gammaridae

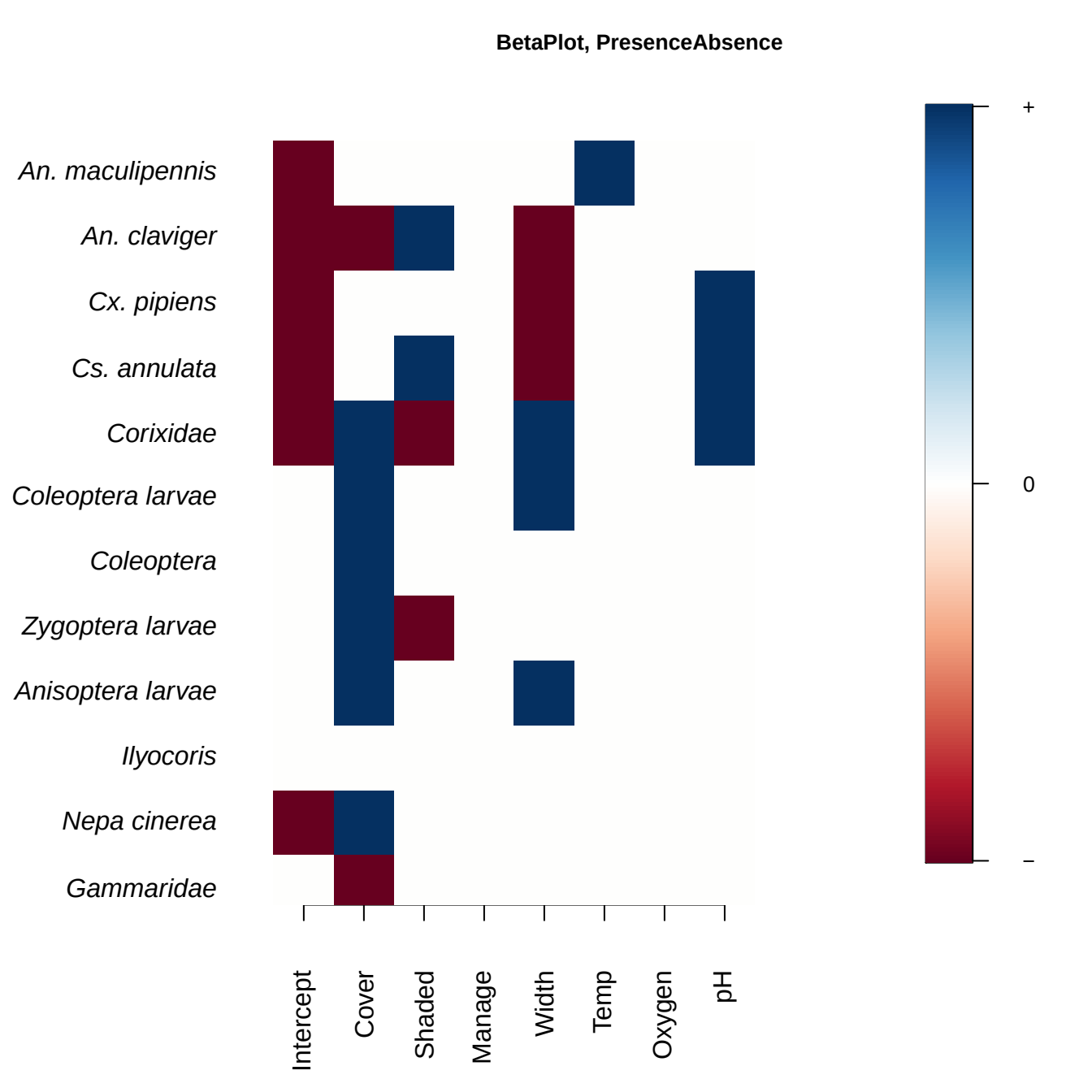

Grouped raw variance partition Abundance
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: year (mean = 2.2)
Random: season (mean = 1.1)
Random: plot_id (mean = 9.2)
Physiochemical (mean = 2.1)
Structural (mean = 4.6)
Zygoptera larvae
Corixidae
Coleoptera
Cs. annulata
Cx. pipiens
Coleoptera larvae
An. claviger
Gammaridae
An. maculipennis
Anisoptera larvae
Ilyocoris
Nepa cinerea

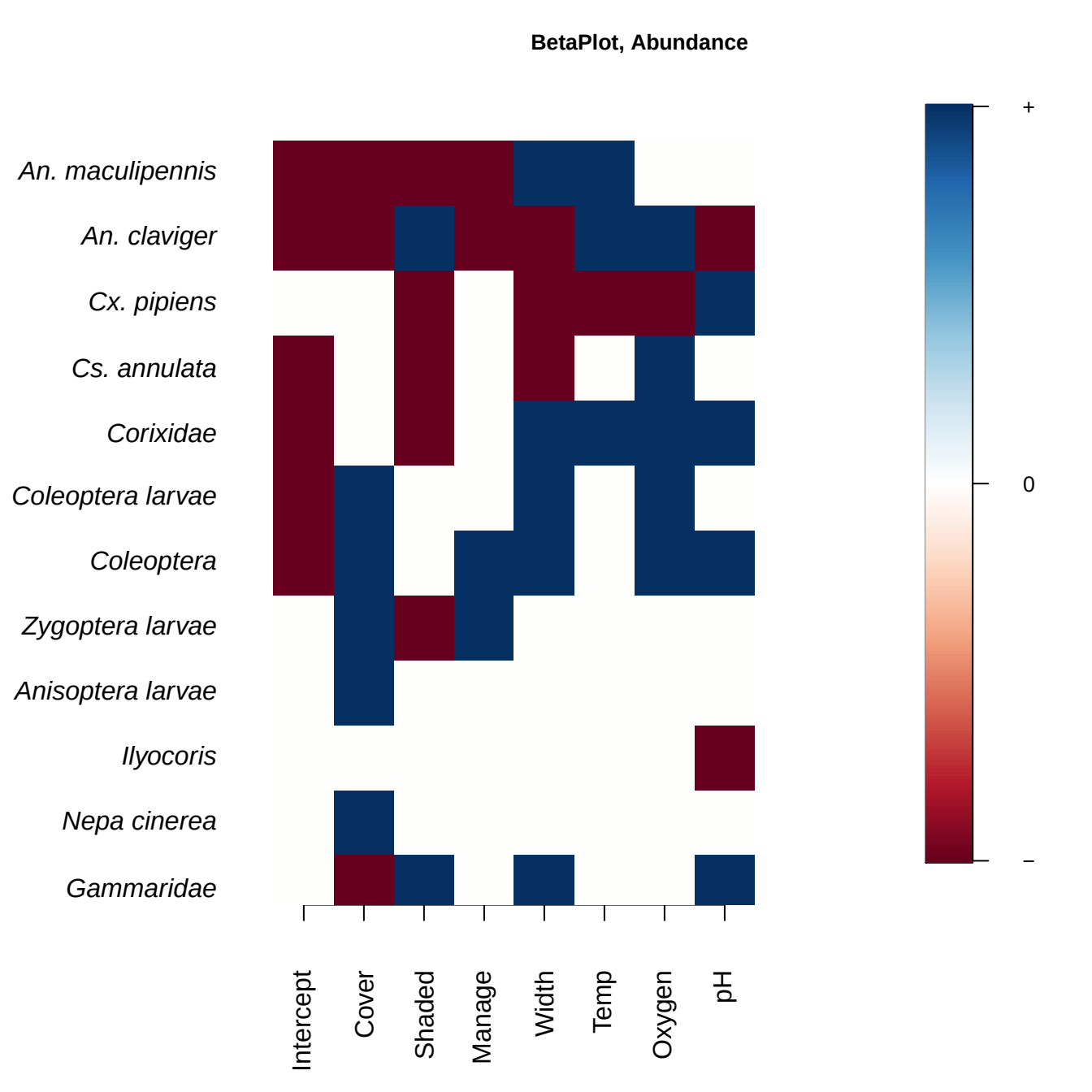

Proportion of explained variance, PresenceAbsence
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: year (mean = 13.8)
Random: season (mean = 6.7)
Random: plot_id (mean = 30.1)
pH (mean = 6.2)
Oxygen (mean = 8.1)
Temp (mean = 10.1)
Width (mean = 6.1)
Manage (mean = 2.2)
Shaded (mean = 6.7)
Cover (mean = 9.9)
An. maculipennis
An. claviger
Cx. pipiens
Cs. annulata
Corixidae
Coleoptera larvae
Coleoptera
Zygoptera larvae
Anisoptera larvae
Ilyocoris
Nepa cinerea
Gammaridae

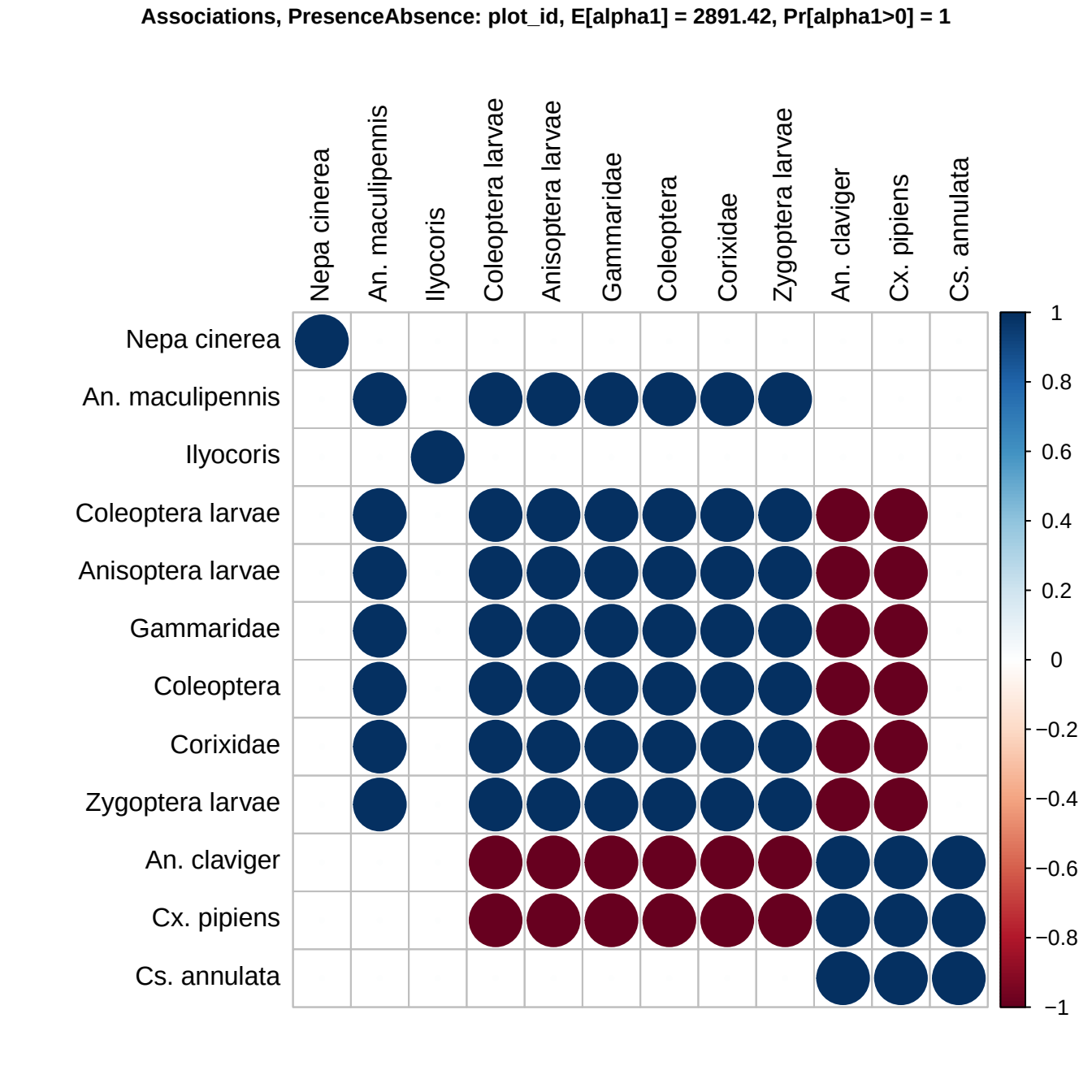

Proportion of raw variance, PresenceAbsence
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: year (mean = 3.1)
Random: season (mean = 1.1)
Random: plot_id (mean = 8.3)
pH (mean = 1.2)
Oxygen (mean = 1.3)
Temp (mean = 1.6)
Width (mean = 1.2)
Manage (mean = 0.3)
Shaded (mean = 1.5)
Cover (mean = 2.1)
Cs. annulata
Zygoptera larvae
Corixidae
Cx. pipiens
An. claviger
Coleoptera
Coleoptera larvae
Gammaridae
Anisoptera larvae
An. maculipennis
Ilyocoris
Nepa cinerea

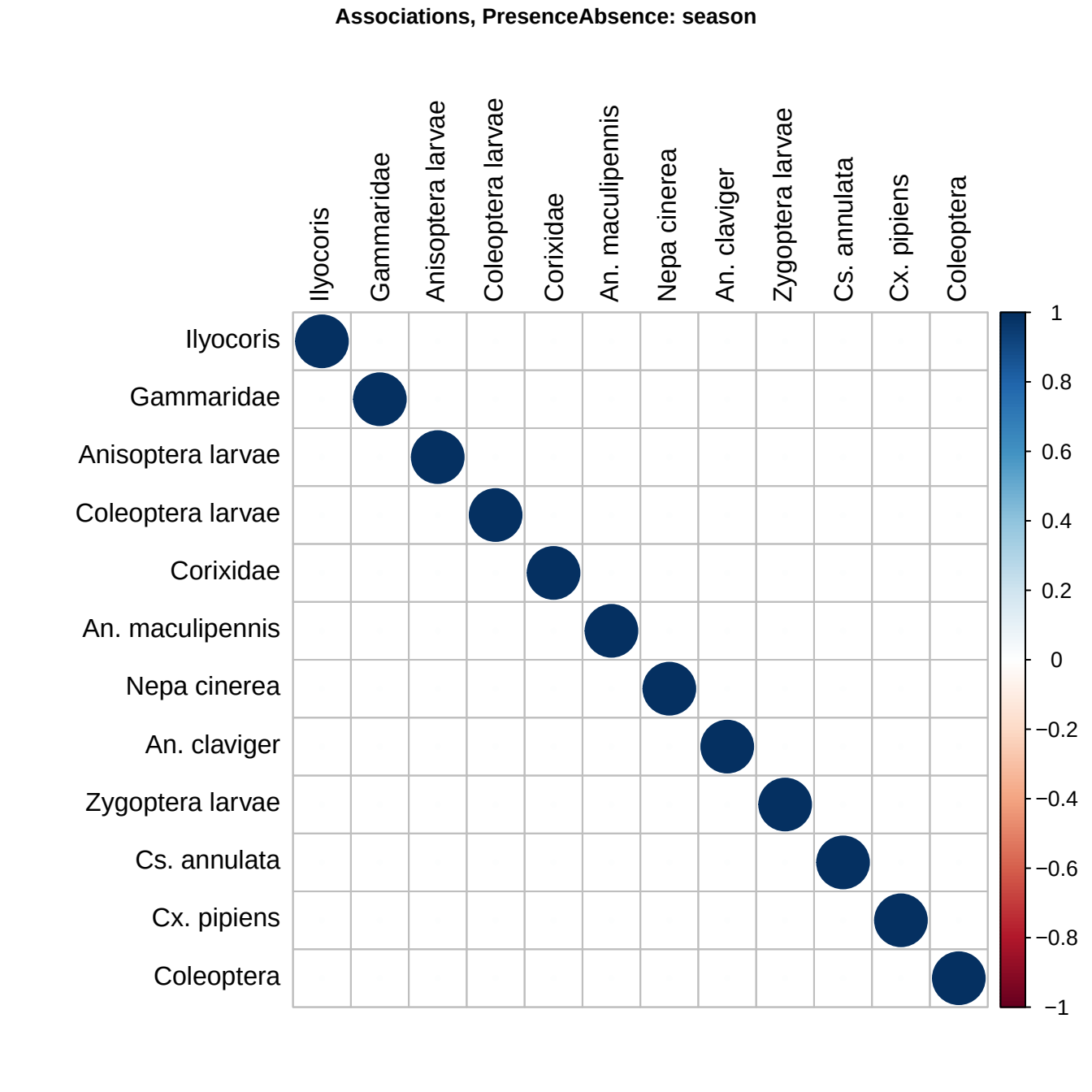

Proportion of explained variance, Abundance
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: year (mean = 9.7)
Random: season (mean = 5.7)
Random: plot_id (mean = 43.8)
pH (mean = 7.6)
Oxygen (mean = 7.1)
Temp (mean = 6.9)
Width (mean = 6.2)
Manage (mean = 2)
Shaded (mean = 6.9)
Cover (mean = 4.4)
An. maculipennis
An. claviger
Cx. pipiens
Cs. annulata
Corixidae
Coleoptera larvae
Coleoptera
Zygoptera larvae
Anisoptera larvae
Ilyocoris
Nepa cinerea
Gammaridae

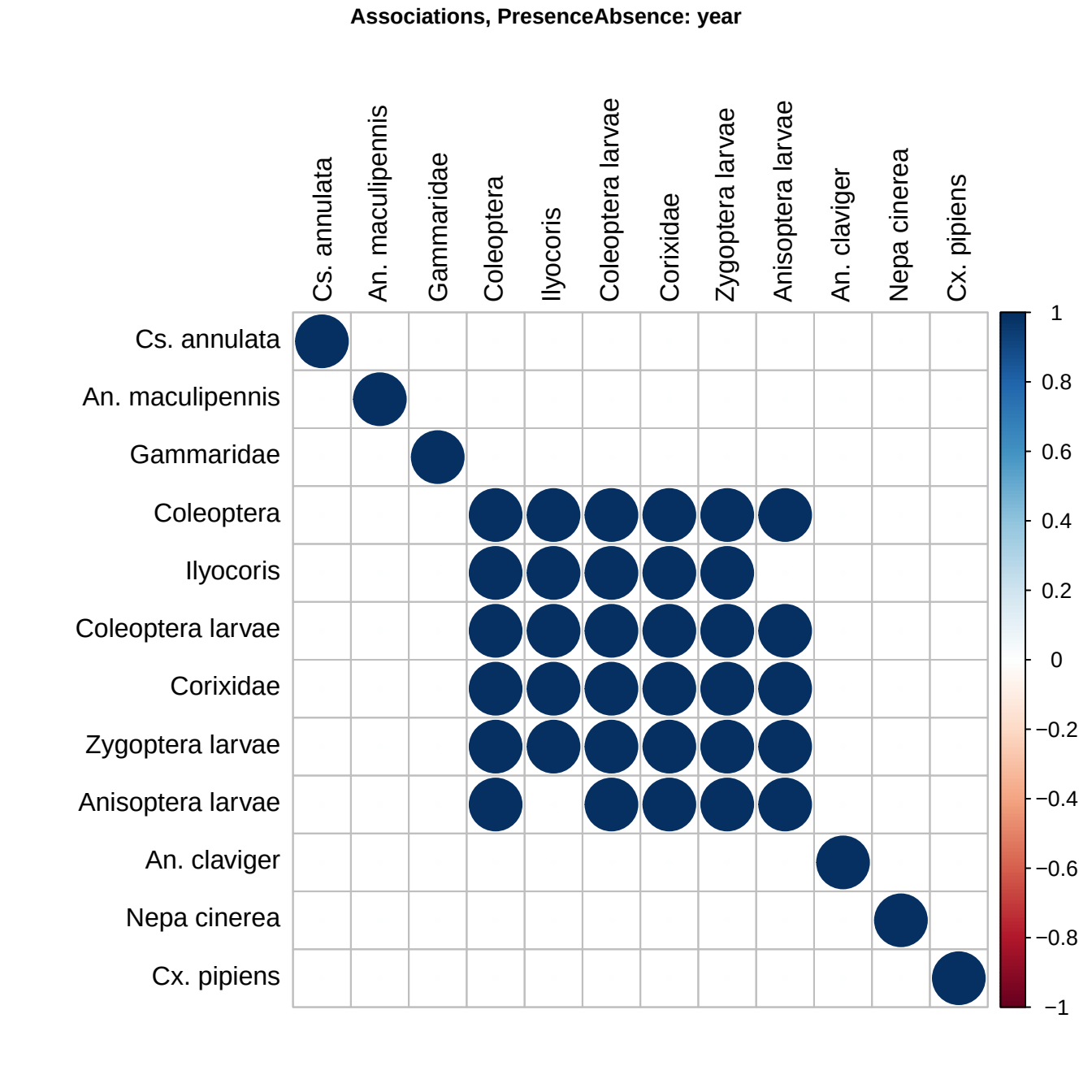

Proportion of raw variance, Abundance
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: year (mean = 2.2)
Random: season (mean = 1.1)
Random: plot_id (mean = 9.2)
pH (mean = 0.9)
Oxygen (mean = 1.2)
Temp (mean = 1.1)
Width (mean = 1.2)
Manage (mean = 0.3)
Shaded (mean = 1.1)
Cover (mean = 0.8)
Zygoptera larvae
Corixidae
Coleoptera
Cs. annulata
Cx. pipiens
Coleoptera larvae
An. claviger
Gammaridae
An. maculipennis
Anisoptera larvae
Ilyocoris
Nepa cinerea

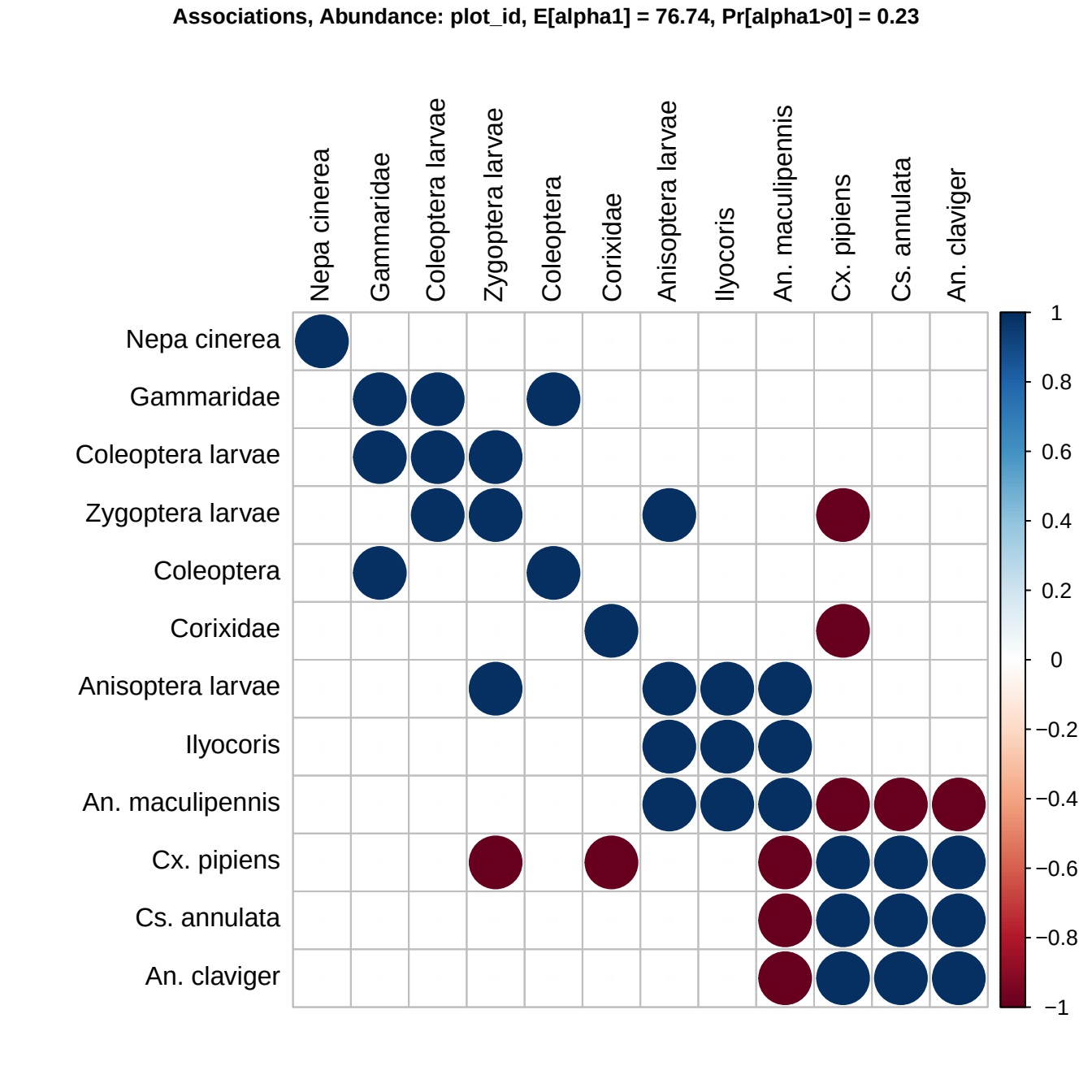

BetaPlot, PresenceAbsence
An. maculipennis
An. claviger
Cx. pipiens
Cs. annulata
Corixidae
Coleoptera larvae
Coleoptera
Zygoptera larvae
Anisoptera larvae
Ilyocoris
Nepa cinerea
Gammaridae
Intercept
Cover
Shaded
Manage
Width
Temp
Oxygen
pH
+
0
–

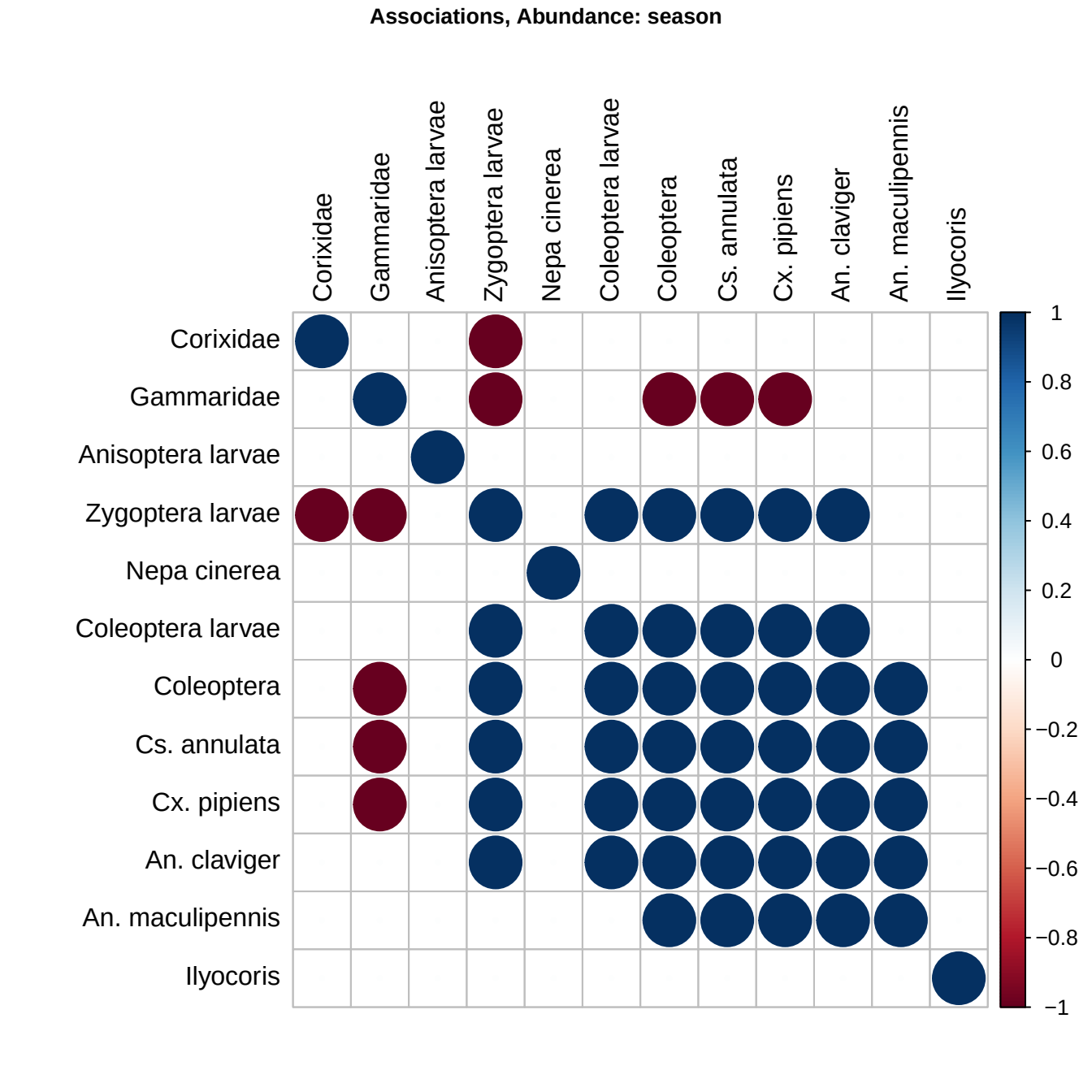

BetaPlot, Abundance
An. maculipennis
An. claviger
Cx. pipiens
Cs. annulata
Corixidae
Coleoptera larvae
Coleoptera
Zygoptera larvae
Anisoptera larvae
Ilyocoris
Nepa cinerea
Gammaridae
Intercept
Cover
Shaded
Manage
Width
Temp
Oxygen
pH
+
0
–

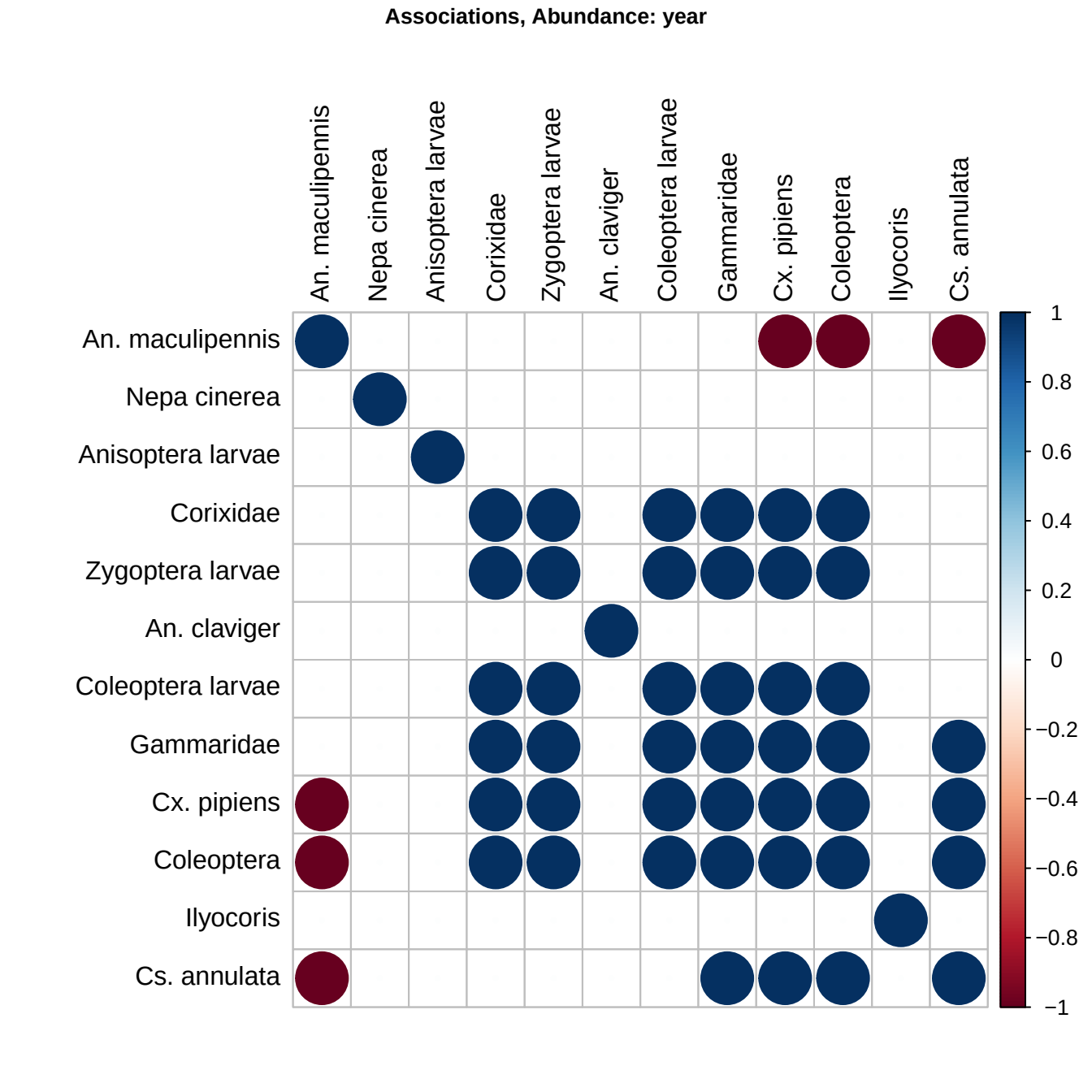

Associations, PresenceAbsence: plot_id, E[alpha1] = 2891.42, Pr[alpha1>0] = 1
Nepa cinerea
An. maculipennis
Ilyocoris
Coleoptera larvae
Anisoptera larvae
Gammaridae
Coleoptera
Corixidae
Zygoptera larvae
An. claviger
Cx. pipiens
Cs. annulata
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


Associations, PresenceAbsence: season
Ilyocoris
Gammaridae
Anisoptera larvae
Coleoptera larvae
Corixidae
An. maculipennis
Nepa cinerea
An. claviger
Zygoptera larvae
Cs. annulata
Cx. pipiens
Coleoptera
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


Associations, PresenceAbsence: year
Cs. annulata
An. maculipennis
Gammaridae
Coleoptera
Ilyocoris
Coleoptera larvae
Corixidae
Zygoptera larvae
Anisoptera larvae
An. claviger
Nepa cinerea
Cx. pipiens
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


Associations, Abundance: plot_id, E[alpha1] = 76.74, Pr[alpha1>0] = 0.23
Nepa cinerea
Gammaridae
Coleoptera larvae
Zygoptera larvae
Coleoptera
Corixidae
Anisoptera larvae
Ilyocoris
An. maculipennis
Cx. pipiens
Cs. annulata
An. claviger
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


Associations, Abundance: season
Corixidae
Gammaridae
Anisoptera larvae
Zygoptera larvae
Nepa cinerea
Coleoptera larvae
Coleoptera
Cs. annulata
Cx. pipiens
An. claviger
An. maculipennis
Ilyocoris
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


Associations, Abundance: year
An. maculipennis
Nepa cinerea
Anisoptera larvae
Corixidae
Zygoptera larvae
An. claviger
Coleoptera larvae
Gammaridae
Cx. pipiens
Coleoptera
Ilyocoris
Cs. annulata
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1