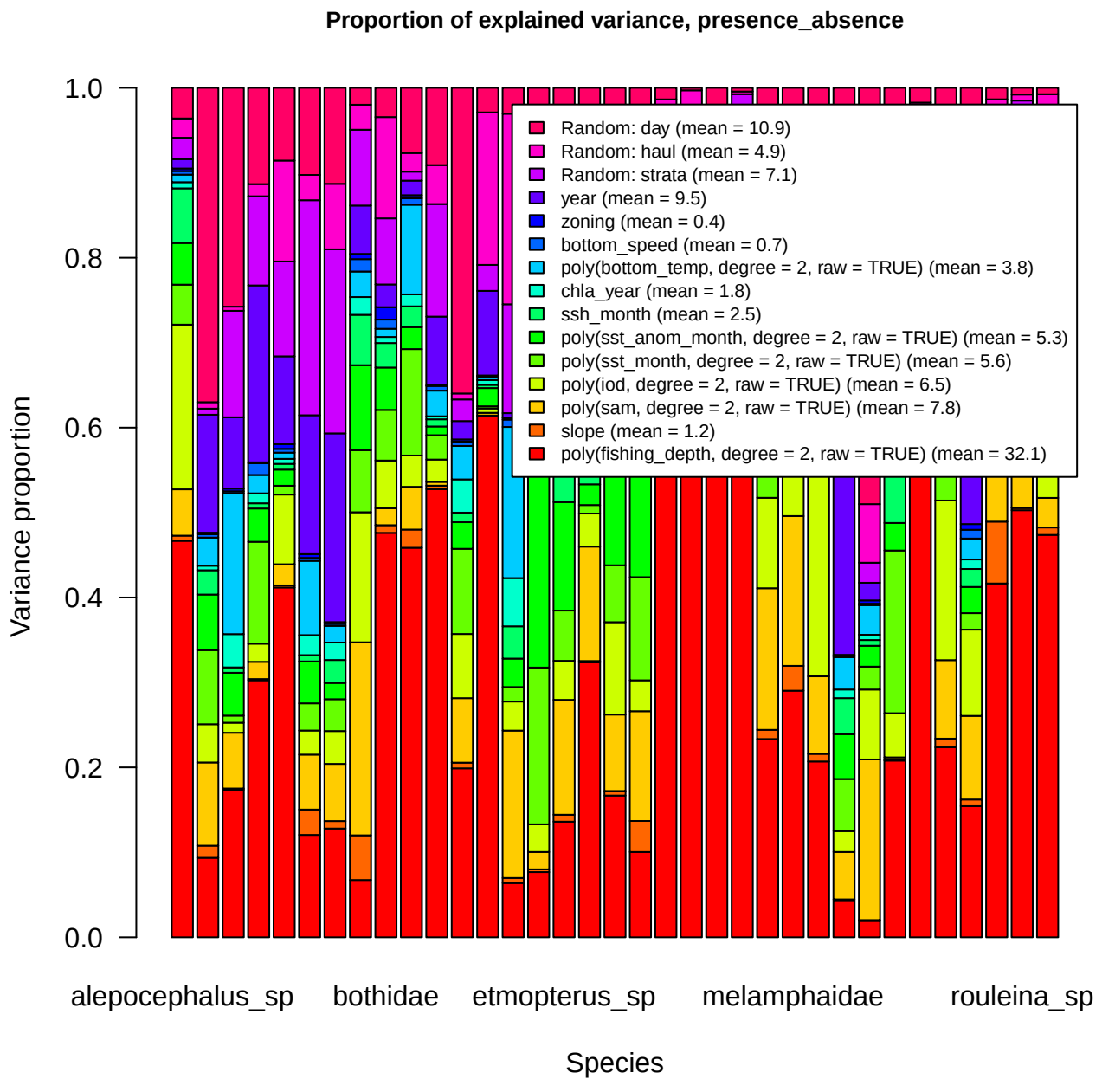
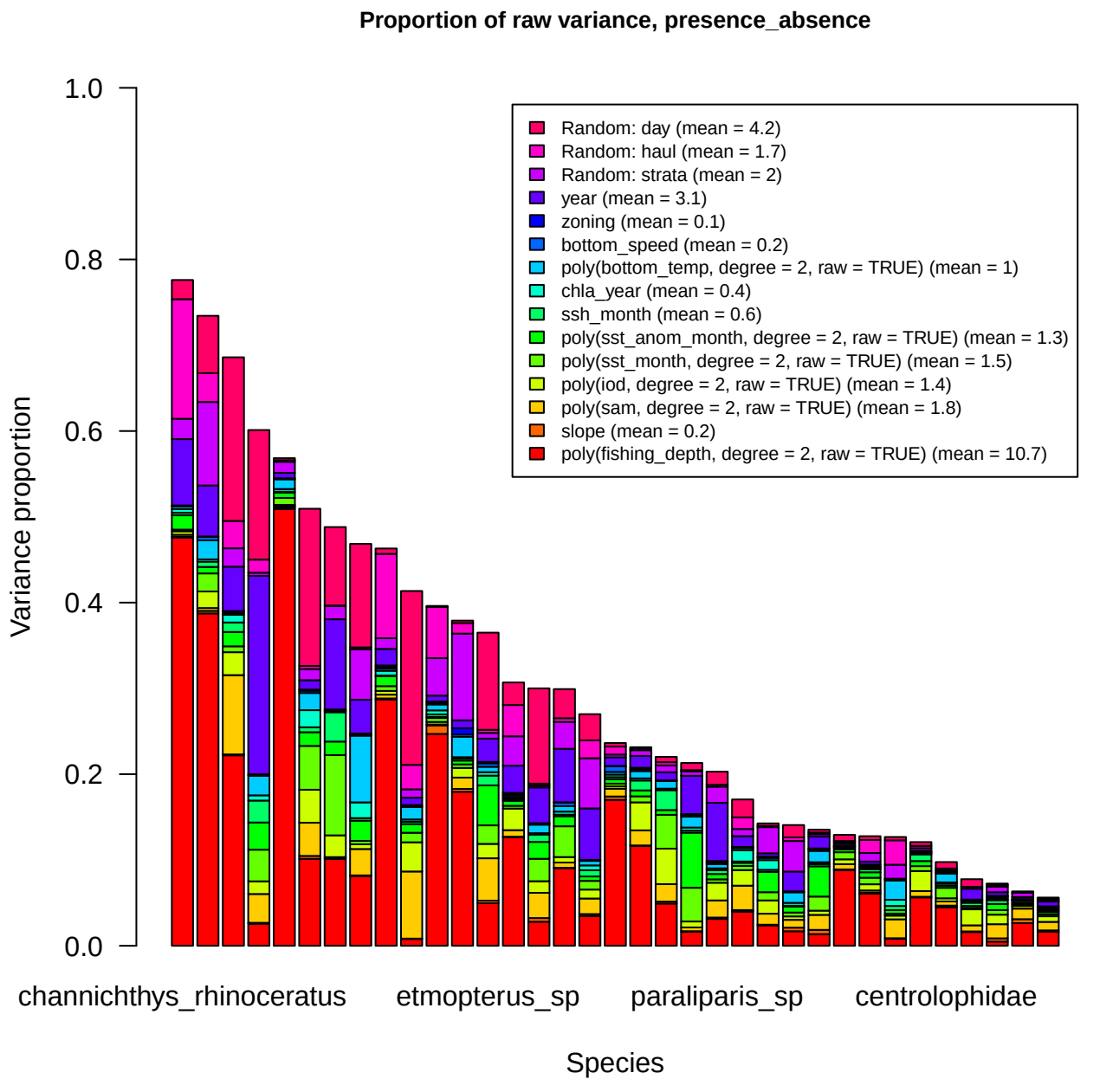
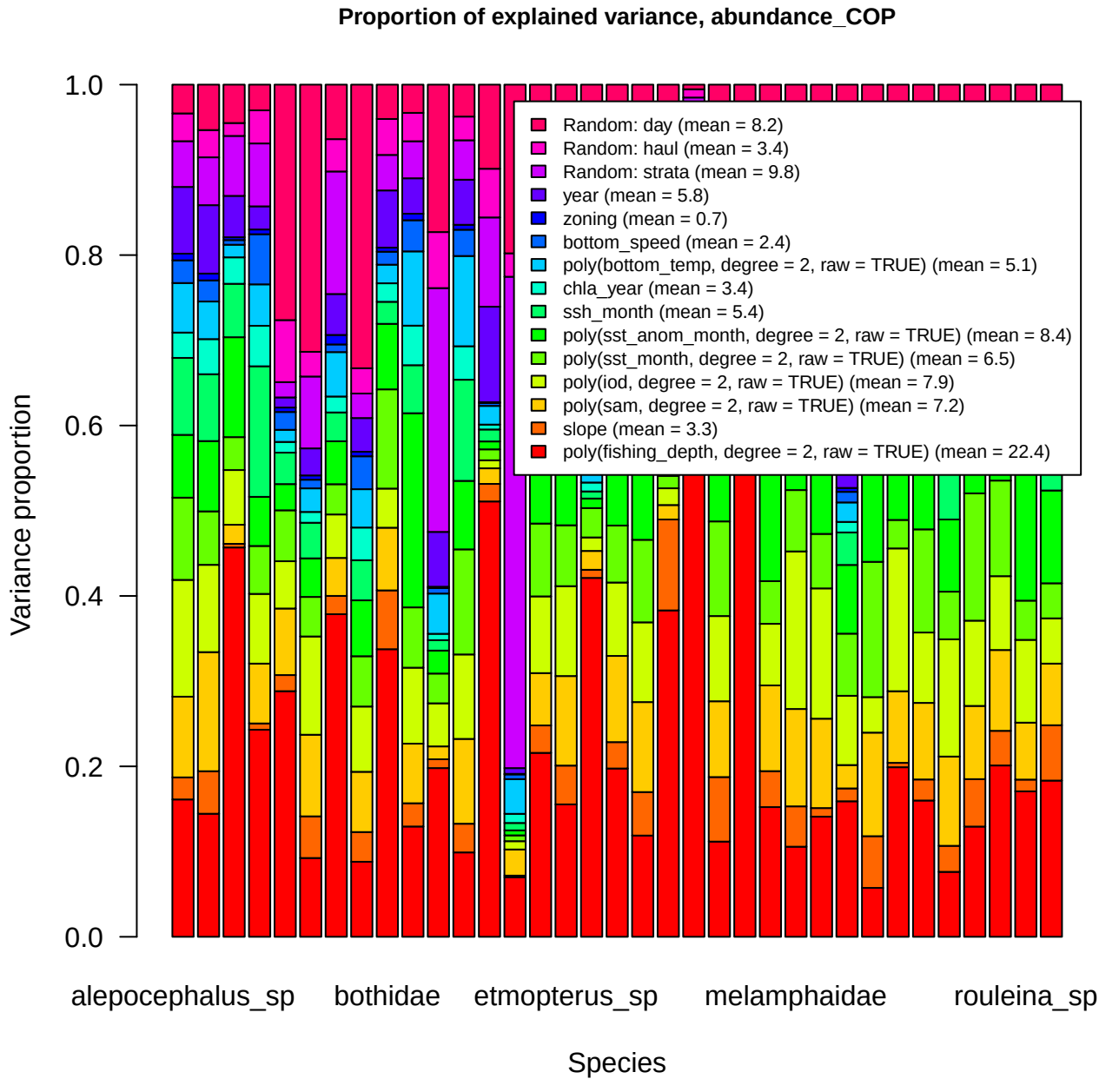
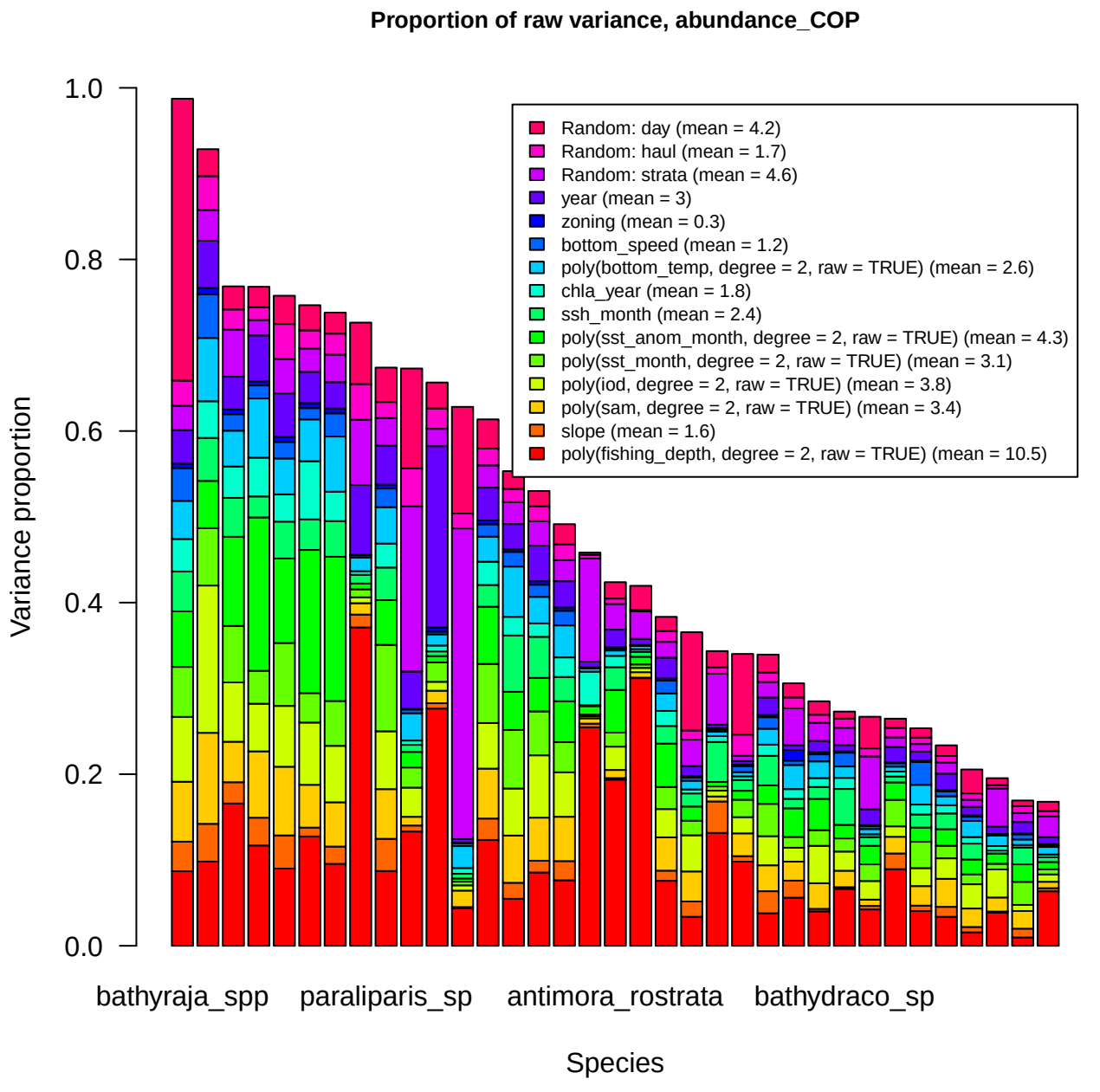
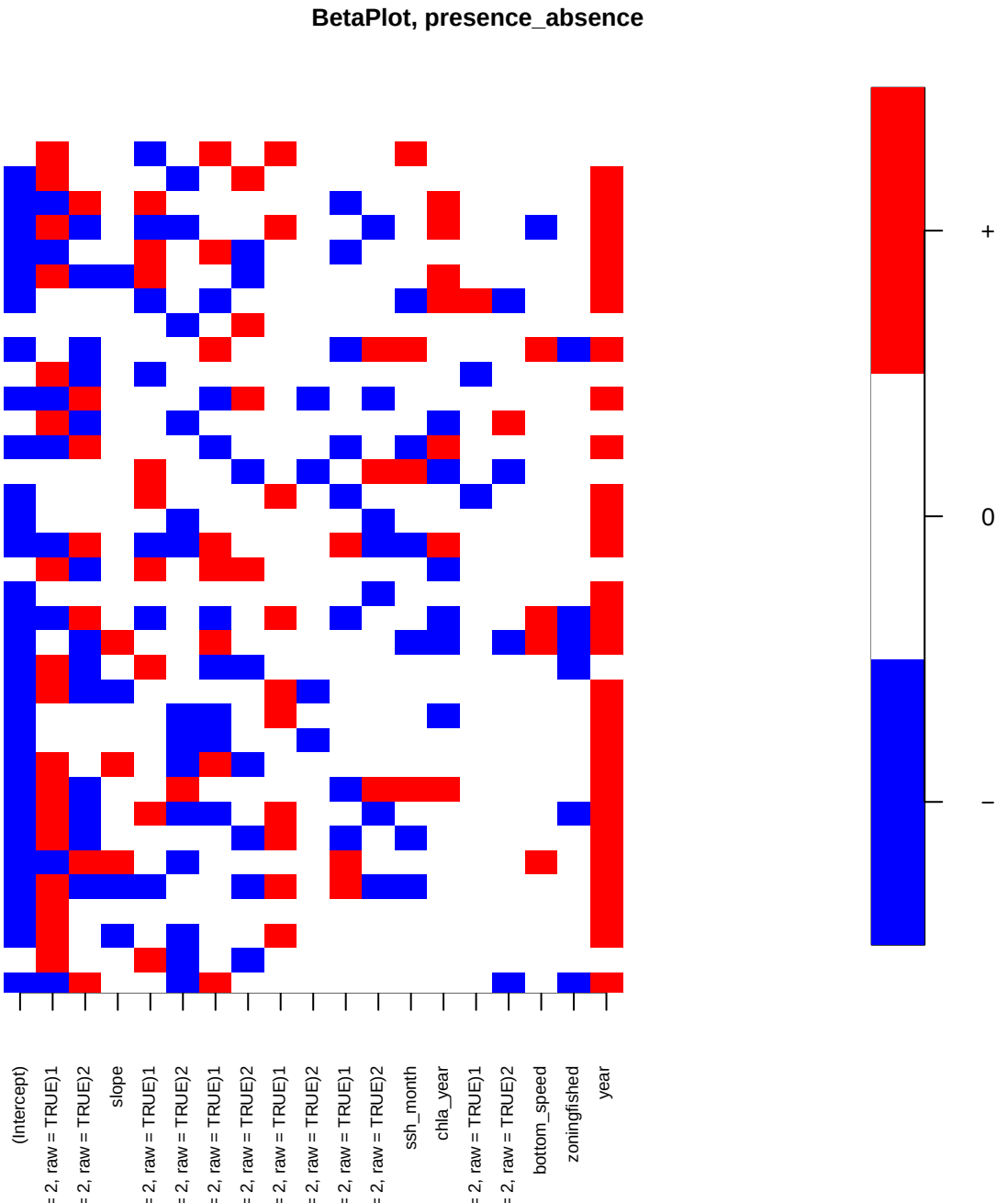

Proportion of explained variance, presence_absence
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: day (mean = 10.9)
Random: haul (mean = 4.9)
Random: strata (mean = 7.1)
year (mean = 9.5)
zoning (mean = 0.4)
bottom_speed (mean = 0.7)
poly(bottom_temp, degree = 2, raw = TRUE) (mean = 3.8)
chla_year (mean = 1.8)
ssh_month (mean = 2.5)
poly(sst_anom_month, degree = 2, raw = TRUE) (mean = 5.3)
poly(sst_month, degree = 2, raw = TRUE) (mean = 5.6)
poly(iod, degree = 2, raw = TRUE) (mean = 6.5)
poly(sam, degree = 2, raw = TRUE) (mean = 7.8)
slope (mean = 1.2)
poly(fishing_depth, degree = 2, raw = TRUE) (mean = 32.1)
alepocephalus_sp
bothidae
etmopterus_sp
melamphaidae
rouleina_sp
Species

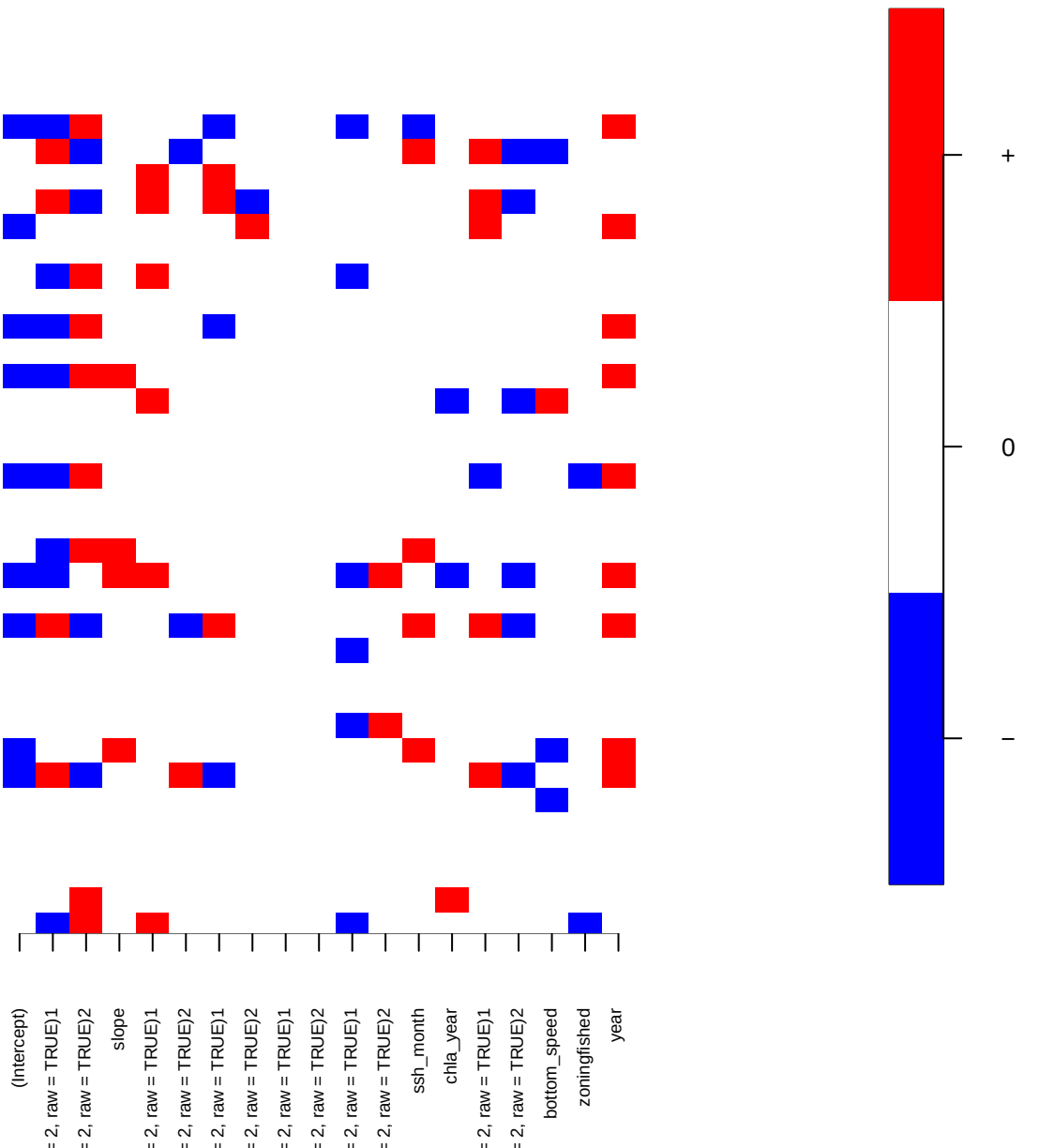

Proportion of raw variance, presence_absence
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: day (mean = 4.2)
Random: haul (mean = 1.7)
Random: strata (mean = 2)
year (mean = 3.1)
zoning (mean = 0.1)
bottom_speed (mean = 0.2)
poly(bottom_temp, degree = 2, raw = TRUE) (mean = 1)
chla_year (mean = 0.4)
ssh_month (mean = 0.6)
poly(sst_anom_month, degree = 2, raw = TRUE) (mean = 1.3)
poly(sst_month, degree = 2, raw = TRUE) (mean = 1.5)
poly(iod, degree = 2, raw = TRUE) (mean = 1.4)
poly(sam, degree = 2, raw = TRUE) (mean = 1.8)
slope (mean = 0.2)
poly(fishing_depth, degree = 2, raw = TRUE) (mean = 10.7)
channichthys_rhinoceratus
etmopterus_sp
paraliparis_sp
centrolophidae
Species


Proportion of explained variance, abundance_COP
Random: day (mean = 8.2)
Random: haul (mean = 3.4)
Random: strata (mean = 9.8)
year (mean = 5.8)
zoning (mean = 0.7)
bottom_speed (mean = 2.4)
poly(bottom_temp, degree = 2, raw = TRUE) (mean = 5.1)
chla_year (mean = 3.4)
ssh_month (mean = 5.4)
poly(sst_anom_month, degree = 2, raw = TRUE) (mean = 8.4)
poly(sst_month, degree = 2, raw = TRUE) (mean = 6.5)
poly(iod, degree = 2, raw = TRUE) (mean = 7.9)
poly(sam, degree = 2, raw = TRUE) (mean = 7.2)
slope (mean = 3.3)
poly(fishing_depth, degree = 2, raw = TRUE) (mean = 22.4)
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
alepocephalus_sp
bothidae
etmopterus_sp
melamphaidae
rouleina_sp
Species

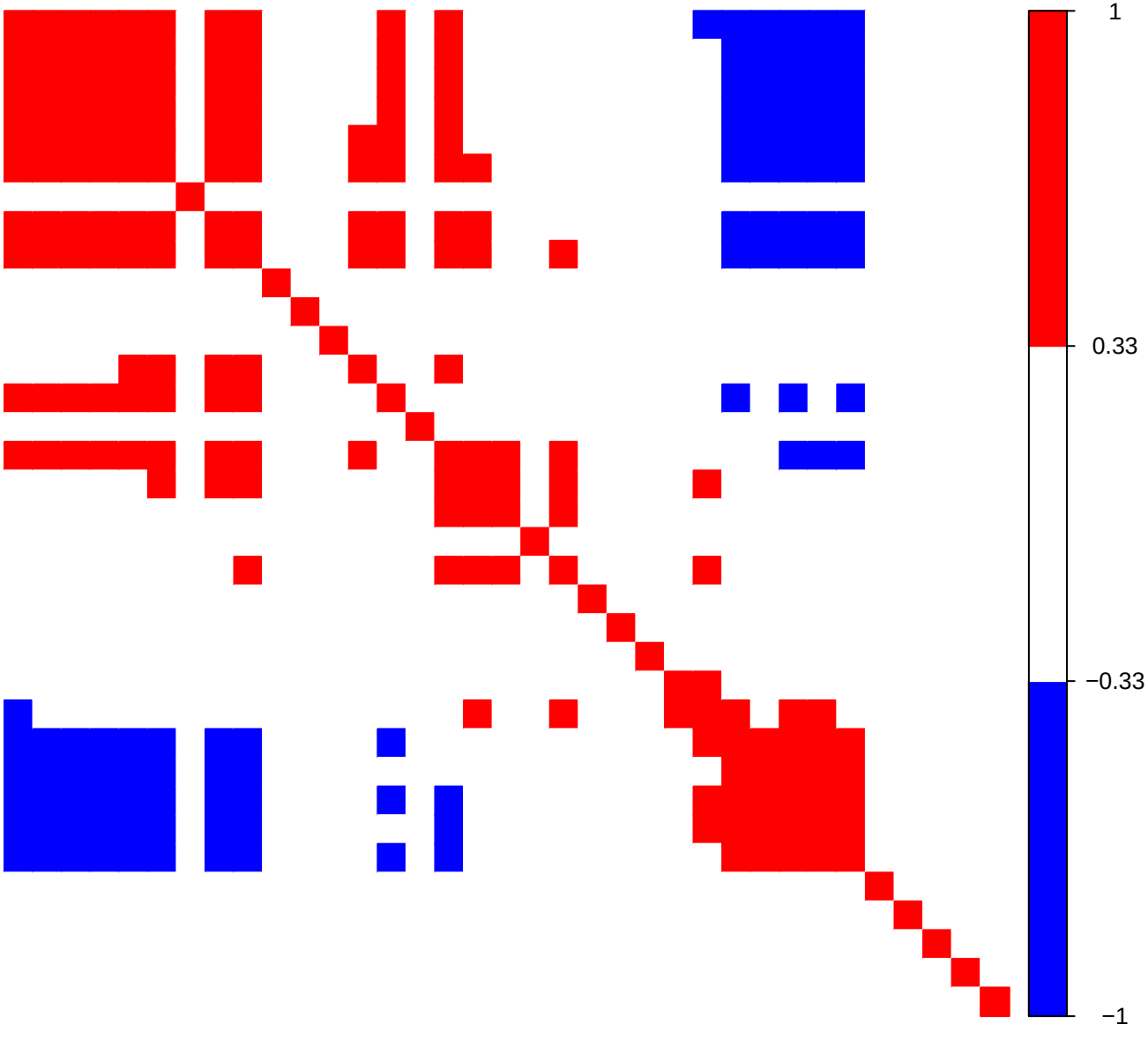

Proportion of raw variance, abundance_COP
Variance proportion
1.0
0.8
0.6
0.4
0.2
0.0
Random: day (mean = 4.2)
Random: haul (mean = 1.7)
Random: strata (mean = 4.6)
year (mean = 3)
zoning (mean = 0.3)
bottom_speed (mean = 1.2)
poly(bottom_temp, degree = 2, raw = TRUE) (mean = 2.6)
chla_year (mean = 1.8)
ssh_month (mean = 2.4)
poly(sst_anom_month, degree = 2, raw = TRUE) (mean = 4.3)
poly(sst_month, degree = 2, raw = TRUE) (mean = 3.1)
poly(iod, degree = 2, raw = TRUE) (mean = 3.8)
poly(sam, degree = 2, raw = TRUE) (mean = 3.4)
slope (mean = 1.6)
poly(fishing_depth, degree = 2, raw = TRUE) (mean = 10.5)
bathyraja_spp
paraliparis_sp
antimora_rostrata
bathydraco_sp
Species


BetaPlot, presence_absence
(Intercept)
= 2, raw = TRUE)1
= 2, raw = TRUE)2
slope
= 2, raw = TRUE)1
= 2, raw = TRUE)2
= 2, raw = TRUE)1
= 2, raw = TRUE)2
= 2, raw = TRUE)1
= 2, raw = TRUE)2
= 2, raw = TRUE)1
= 2, raw = TRUE)2
ssh_month
chla_year
= 2, raw = TRUE)1
= 2, raw = TRUE)2
bottom_speed
zoningfished
year
+
0
−

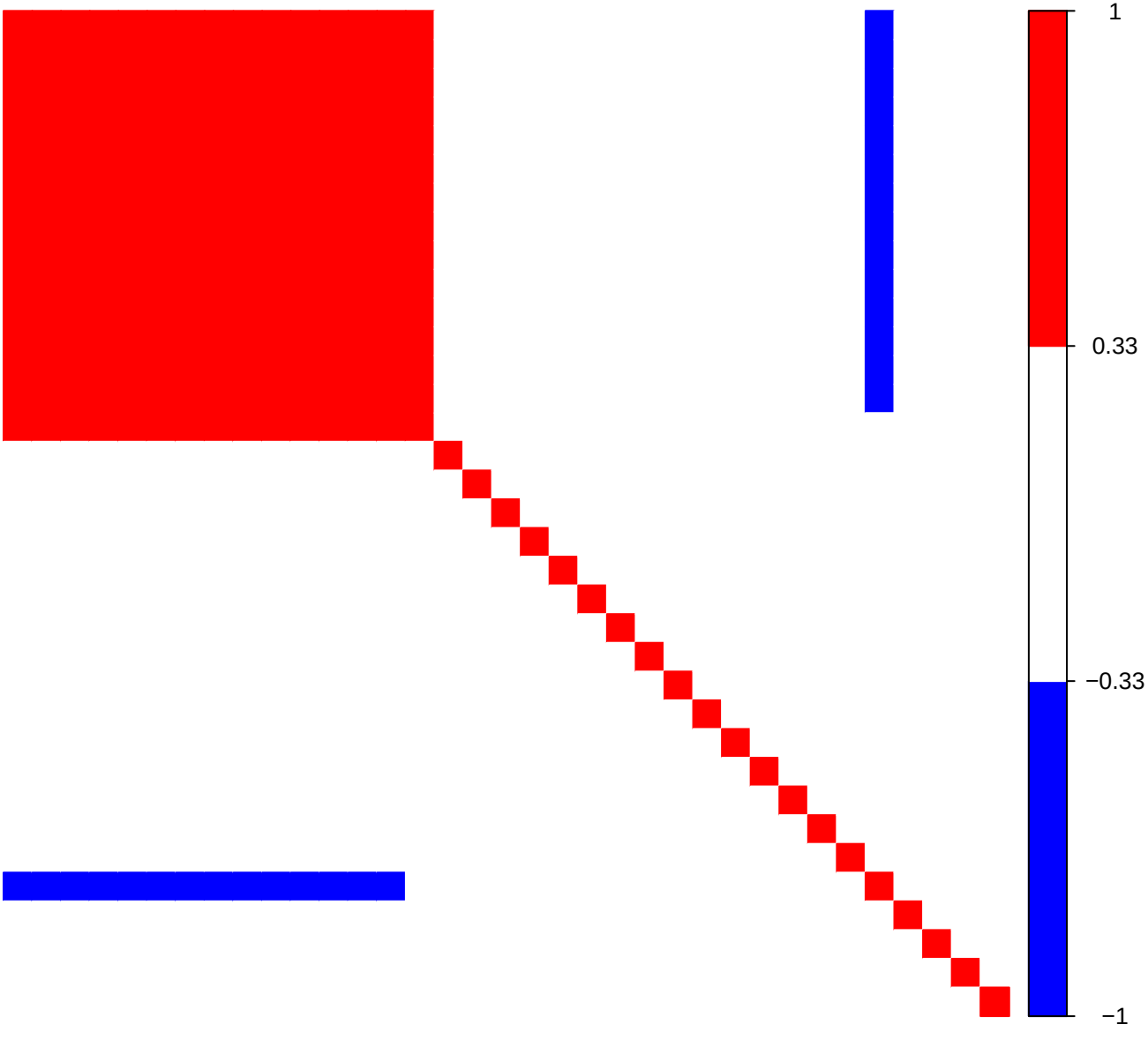
# BetaPlot, abundance_COP



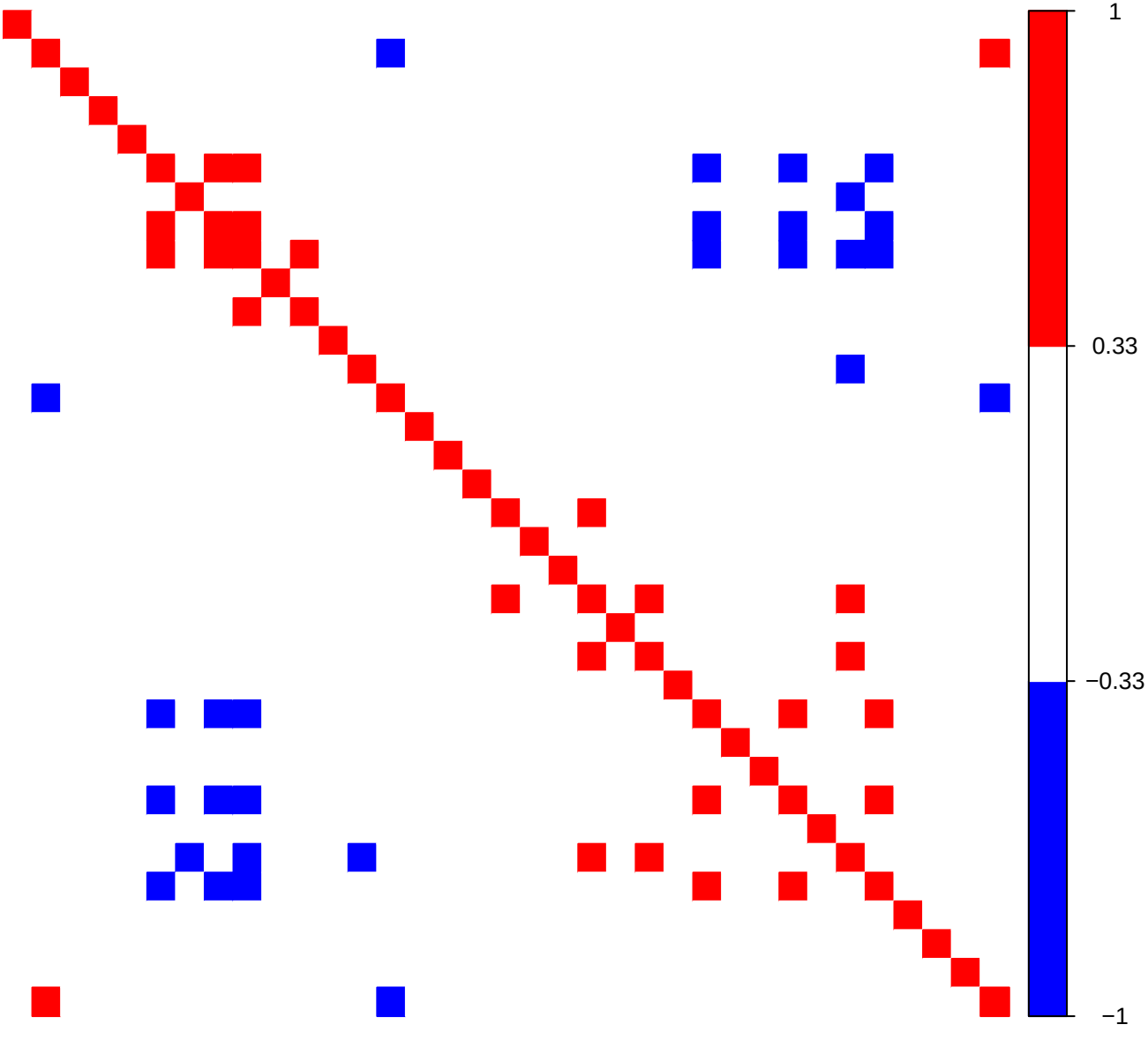
**Associations, presence_absence: strata**



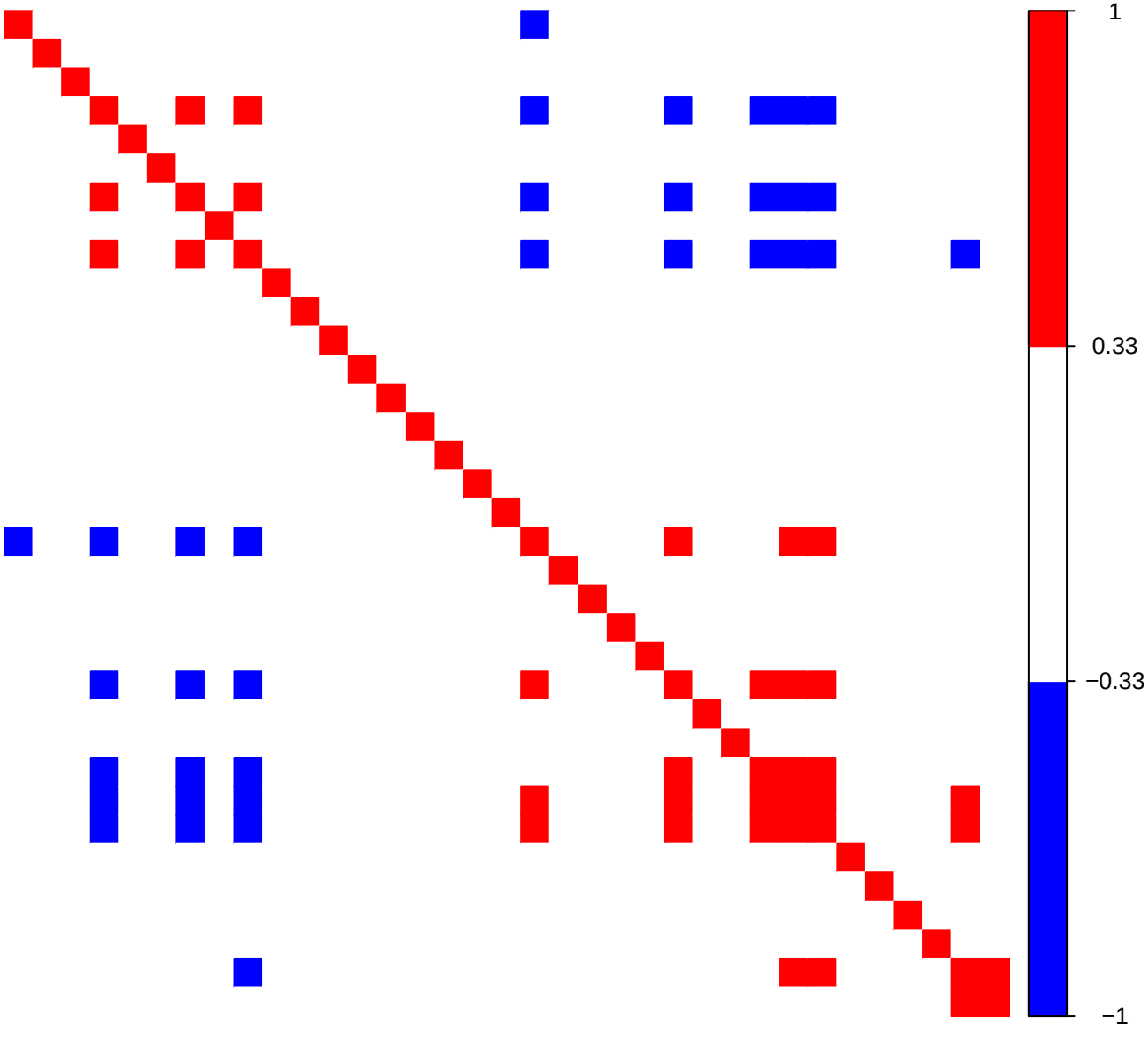
**Associations, presence_absence: haul, E[alpha1] = 0, Pr[alpha1>0] = 0**



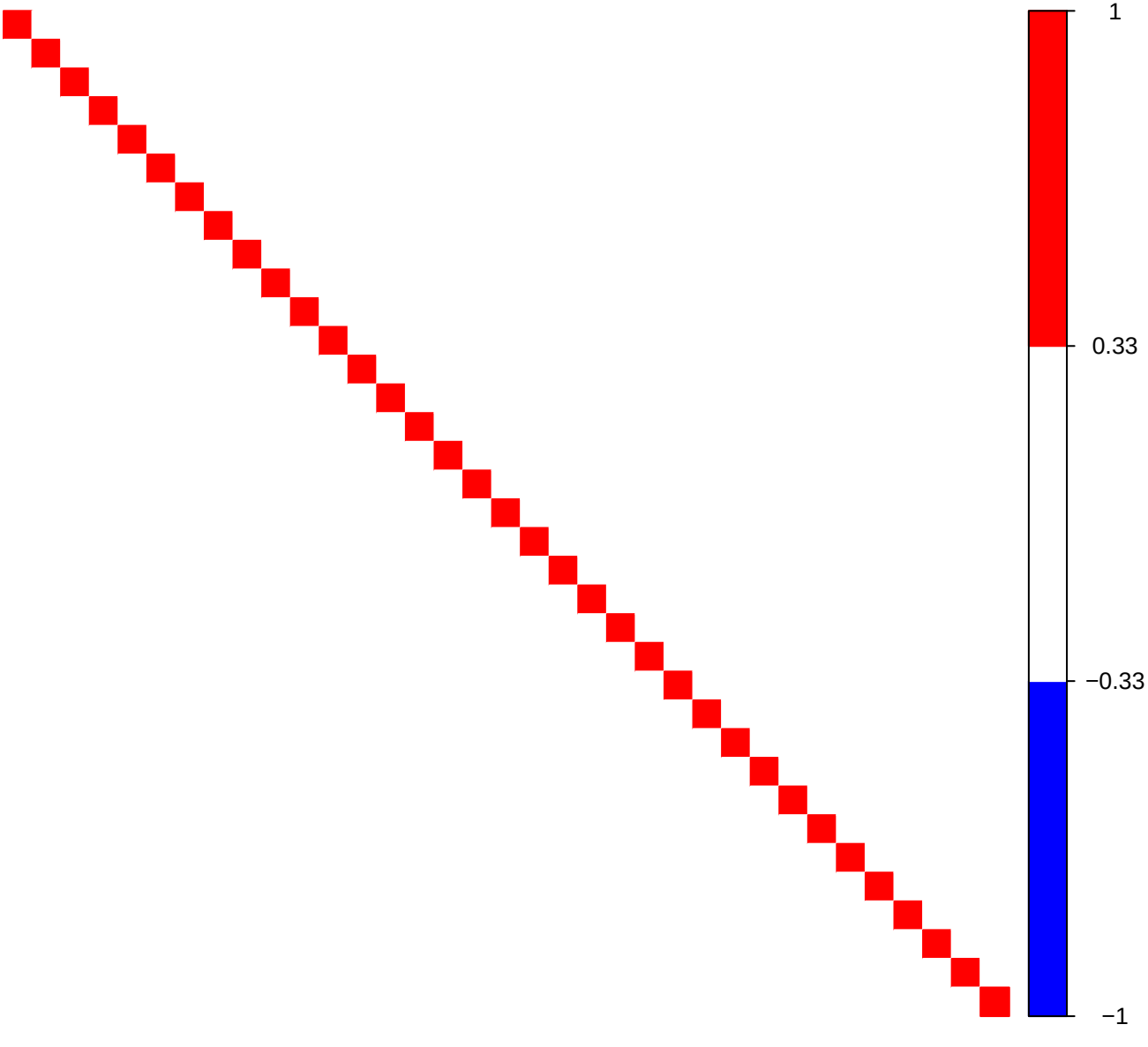
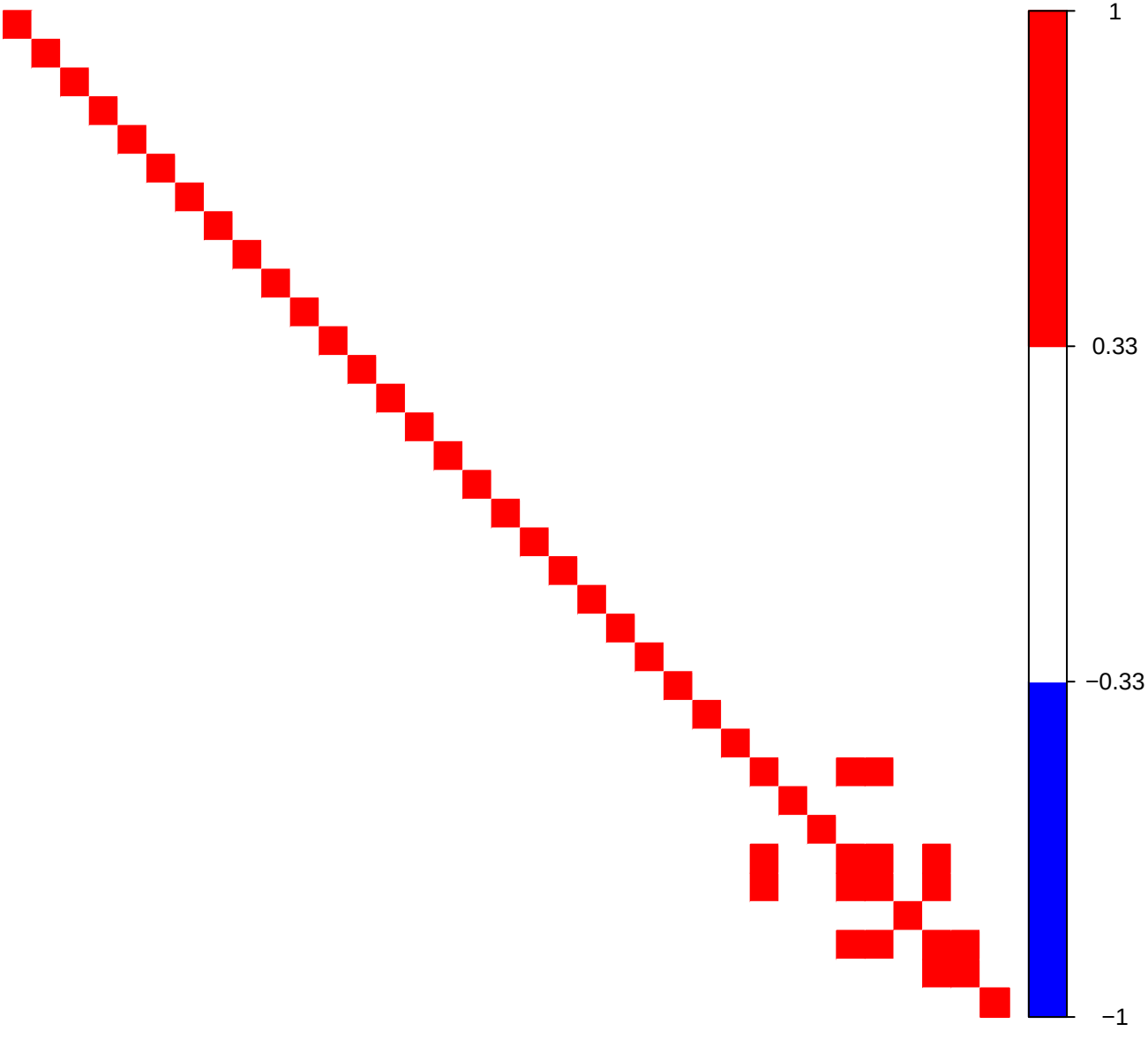
**Associations, presence_absence: day**



**Associations, abundance_COP: strata**



**Associations, abundance_COP: haul, E[alpha1] = 0, Pr[alpha1>0] = 0**



**Associations, abundance_COP: day**