Supporting Information 1

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Article title: Extinction pulse at Eocene–Oligocene boundary drives diversification dynamics of the two Australian temperate floras

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Figures S10–15

Fig. S10 BAMM estimates of diversification rate for *Acacia* (Fabaceae) under different global sampling fraction regimes: **a)** 20%; **b)** 40%; **c)** 60%; **d)** 80%; **e)** 100%. Estimated rates of net species diversification (sp sp^{-1} My^{-1}) are colour-coded as indicated (red–blue; high–low rate).

Fig. S11 BAMM estimates of diversification rate for Epacrids (Ericaceae) under different global sampling fraction regimes: **a)** 20%; **b)** 50%; **c)** 80%; **d)** 100%. Estimated rates of net species diversification (sp sp^{-1} My^{-1}) are colour-coded as indicated (red–blue; high–low rate).

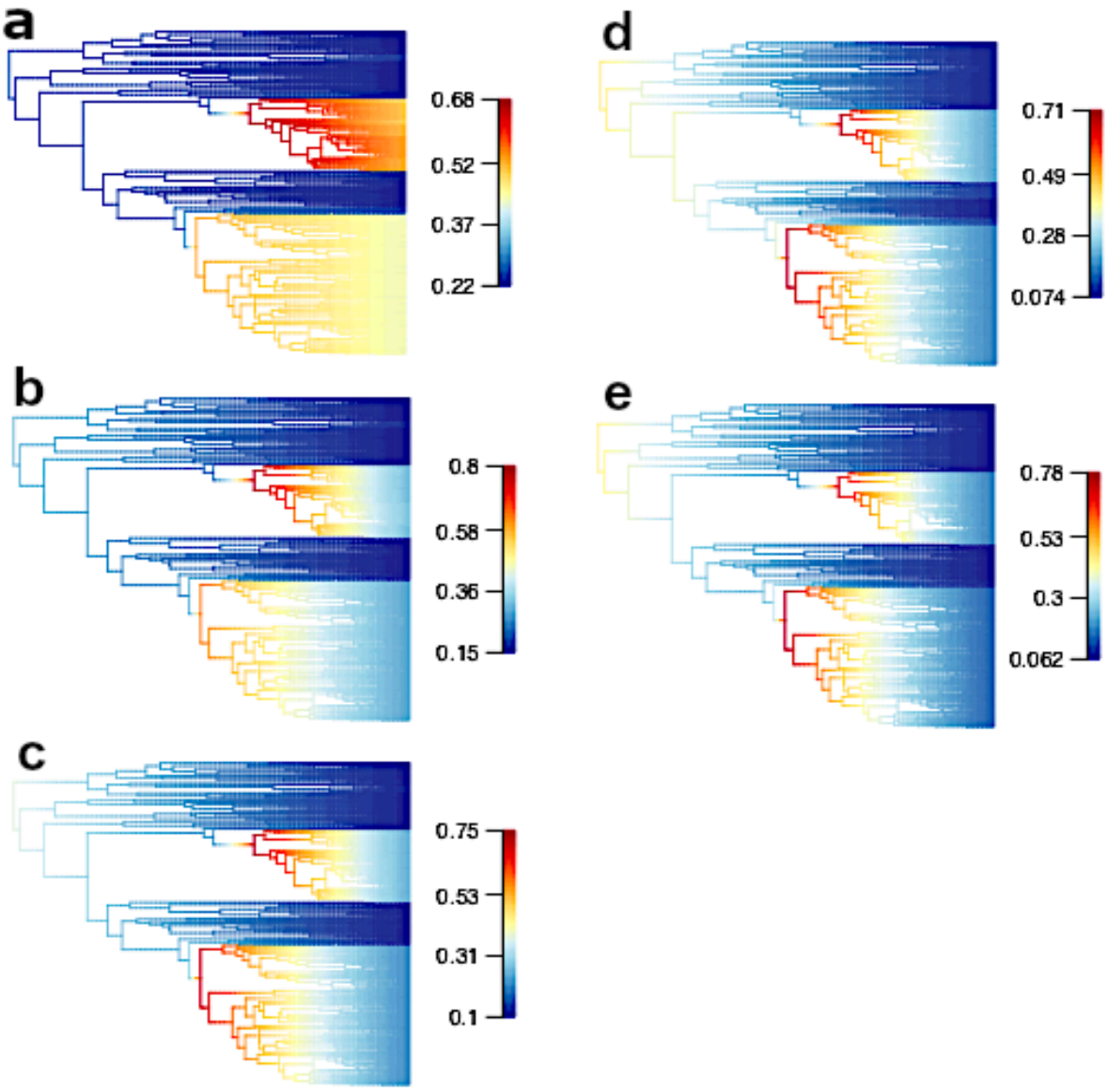
Fig. S12 BAMM estimates of diversification rate for *Eucalyptus* (Myrtaceae) under different global sampling fraction regimes: **a)** 20%; **b)** 50%; **c)** 70%; **d)** 90%. Estimated rates of net species diversification (sp sp^{-1} My^{-1}) are colour-coded as indicated (red–blue; high–low rate).

Fig. S13 BAMM 95% credible rate shift configurations for *Acacia* (Fabaceae) under different global samlping fraction regimes: **a)** 20%; **b)** 40%; **c)** 60%; **d)** 80%; **e)** 100%. F = probability; percentage of samples in posterior assigned to shift configurations.

Fig. S14 BAMM 95% credible rate shift configurations for Epacrids (Ericaceae) under different global samlping fraction regimes: **a)** 20%; **b)** 50%; **c)** 80%; **d)** 100%. F = probability; percentage of samples in posterior assigned to shift configurations.

Fig. S15 BAMM 95% credible rate shift configurations for *Eucalyptus* (Myrtaceae) under different global samlping fraction regimes: **a)** 20%; **b)** 50%; **c)** 70%; **d)** 90%. F = probability; percentage of samples in posterior assigned to shift configurations.

Fig. S10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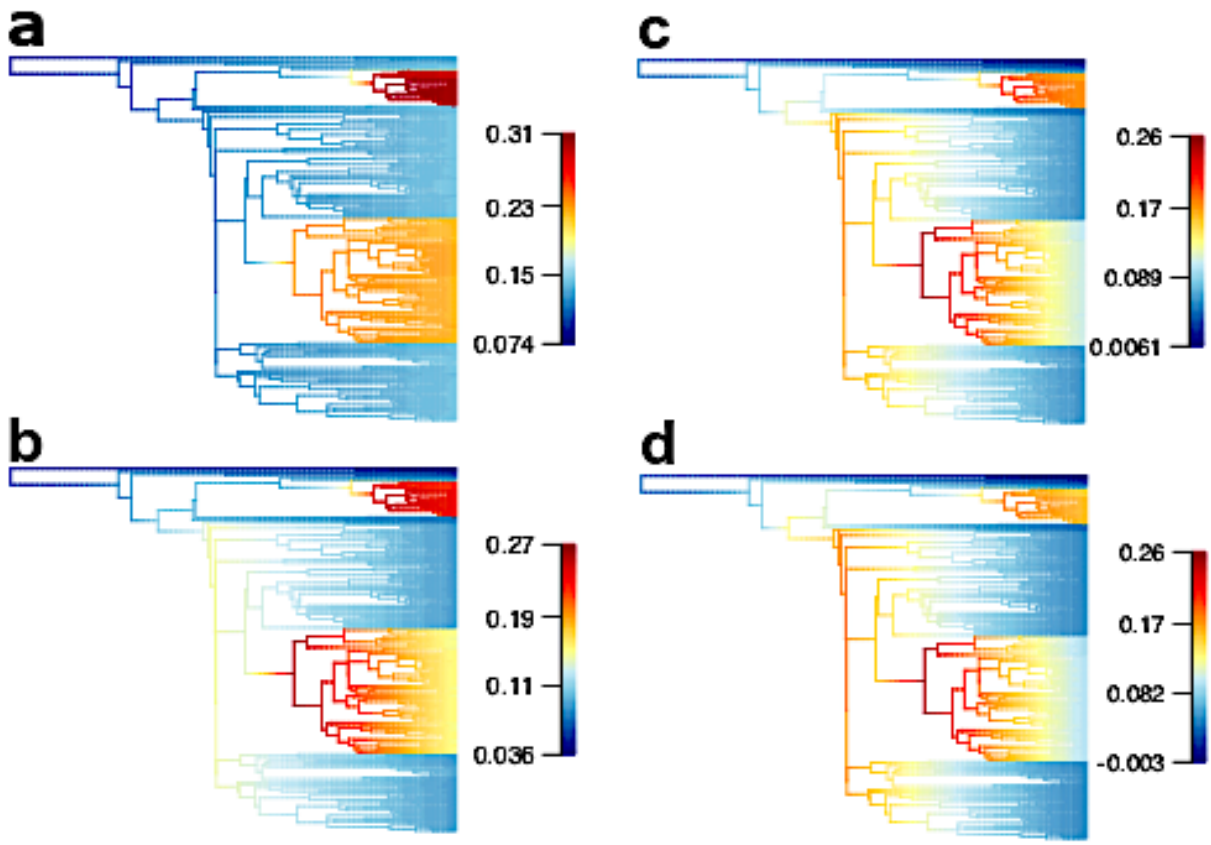
0.52
0.37
0.22
b
0.8
0.58
0.36
0.15
c
0.75
0.53
0.31
0.1
d
0.71
0.49
0.28
0.074
e
0.78
0.53
0.3
0.062

Fig. S11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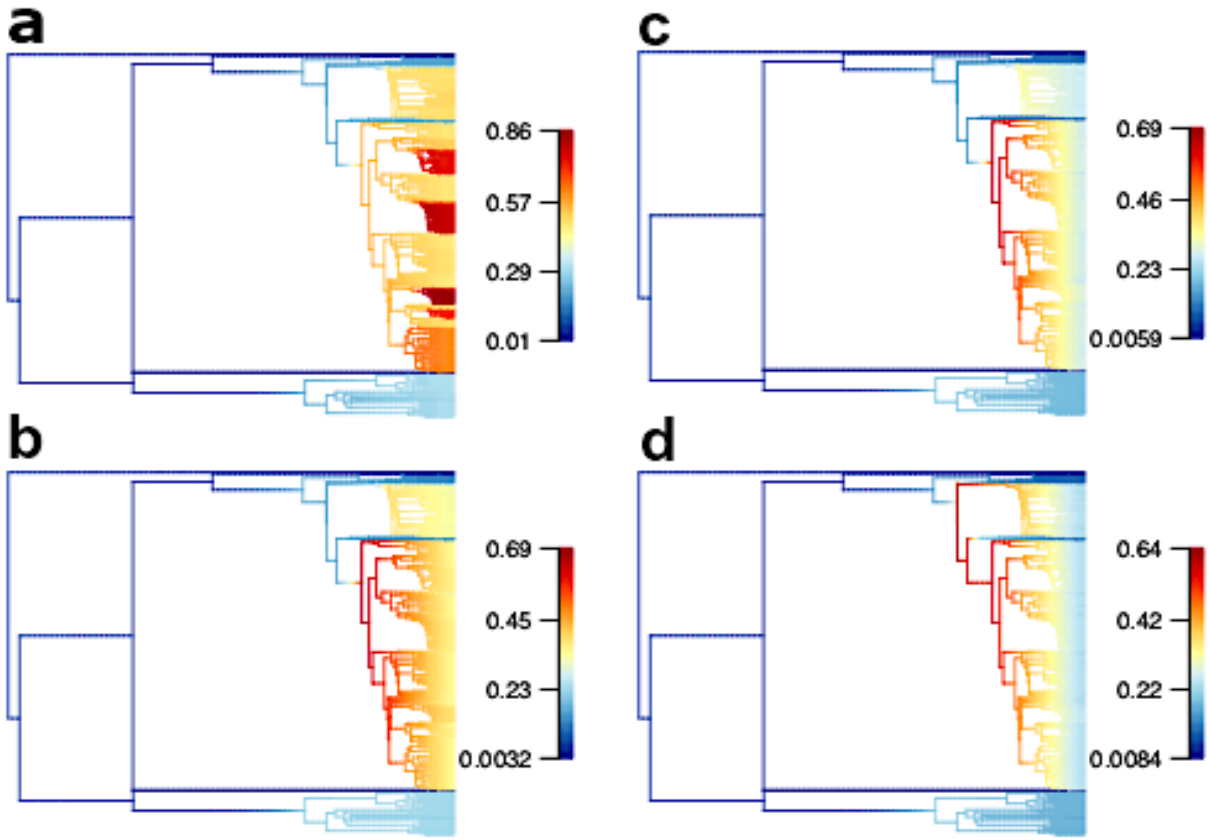
0.23
0.15
0.074
b
0.27
0.19
0.11
0.036
c
0.26
0.17
0.089
0.0061
d
0.26
0.17
0.082
-0.003

Fig. S12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0.57
0.29
0.01
c
0.69
0.46
0.23
0.0059
b
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0.45
0.23
0.0032
d
0.64
0.42
0.22
0.0084

Fig. S13a

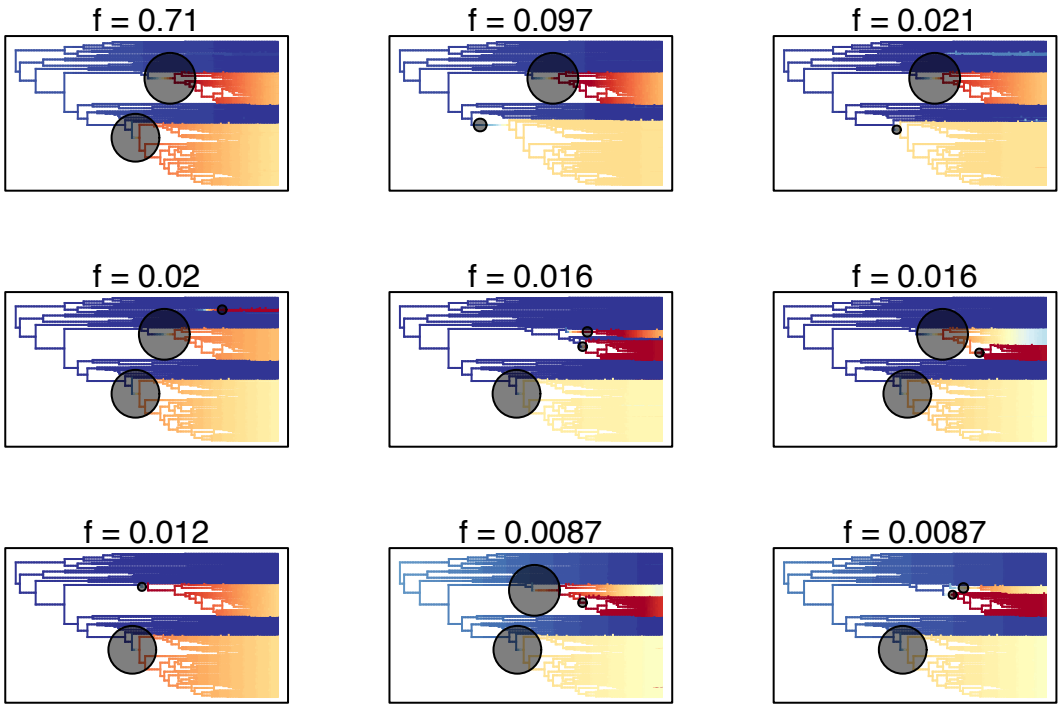


Fig. S13b

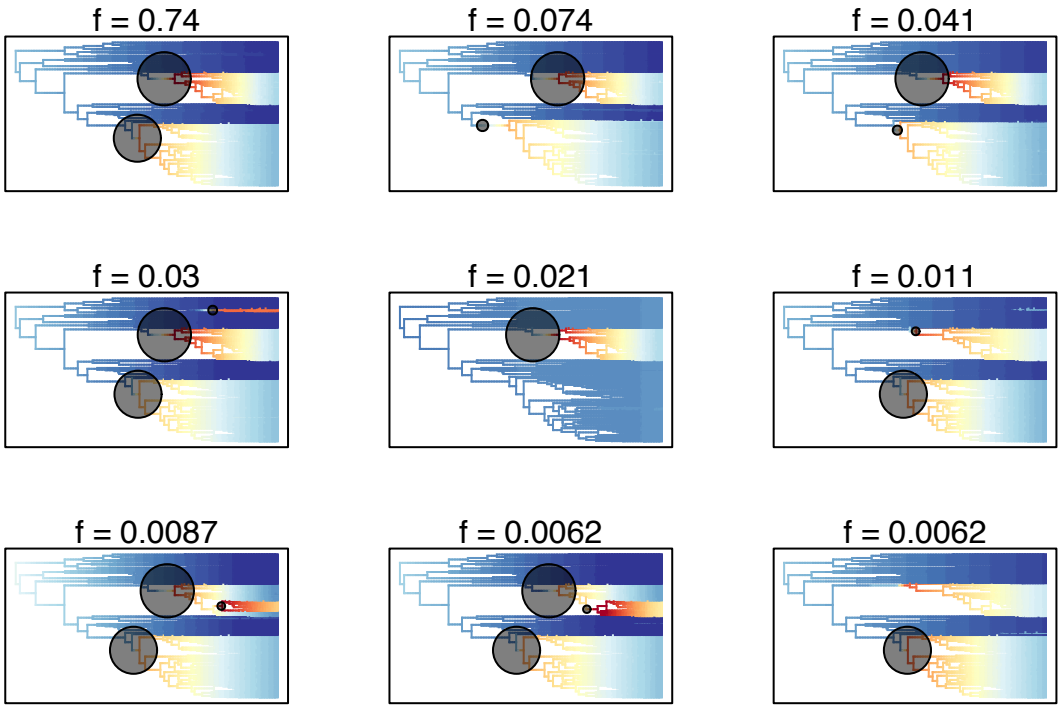


Fig. S13c

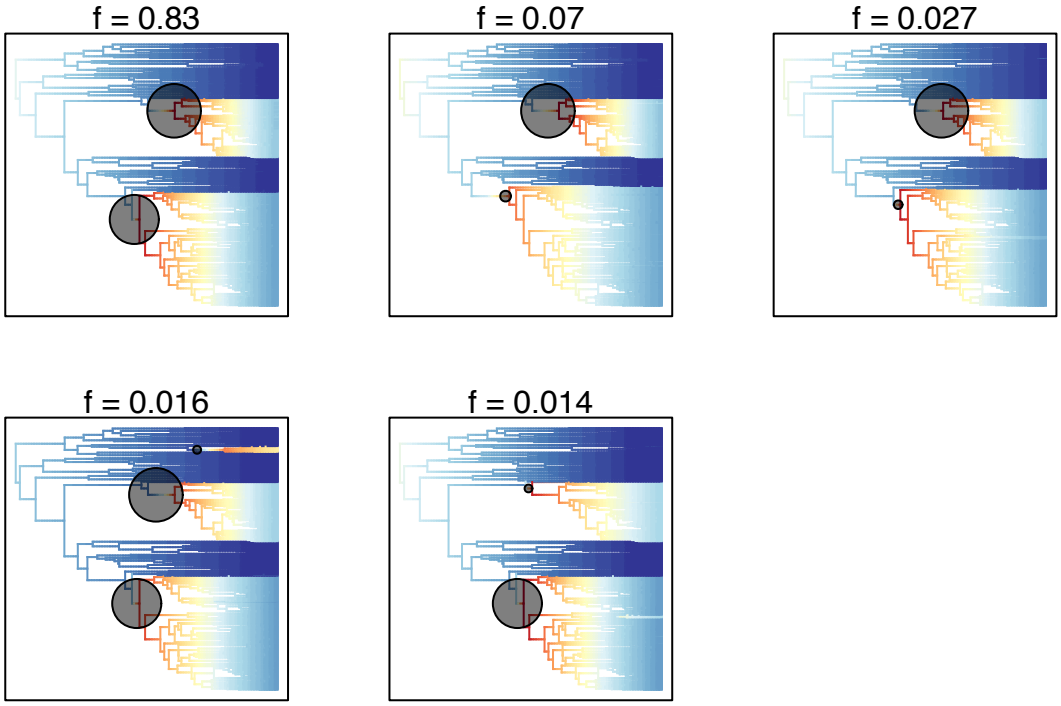
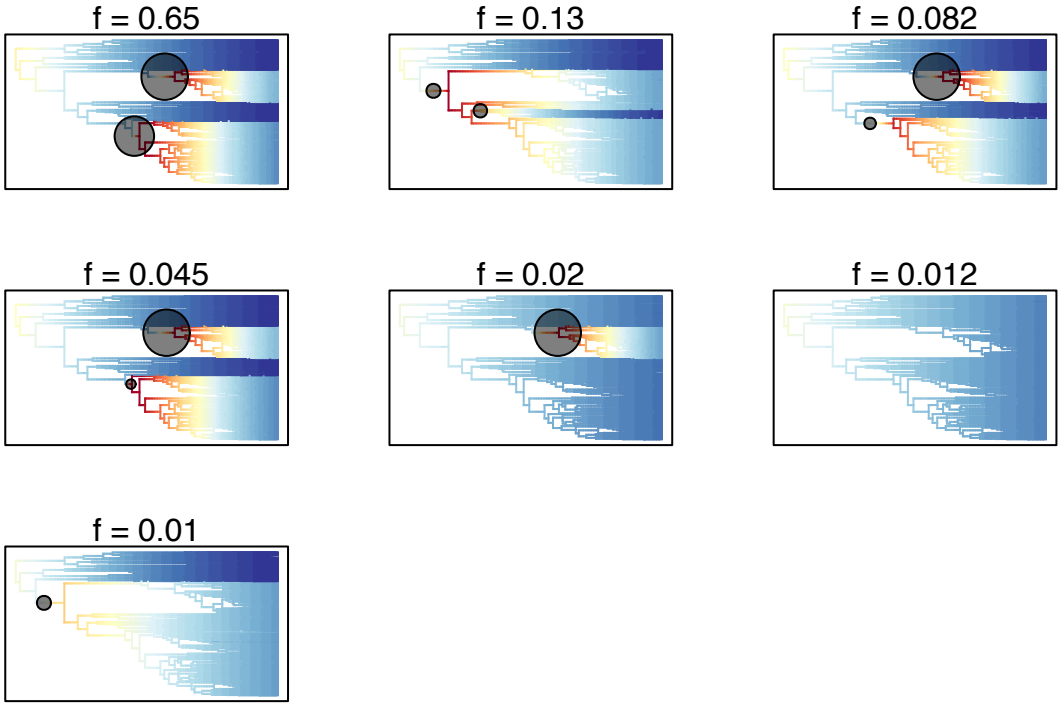


Fig. S13d



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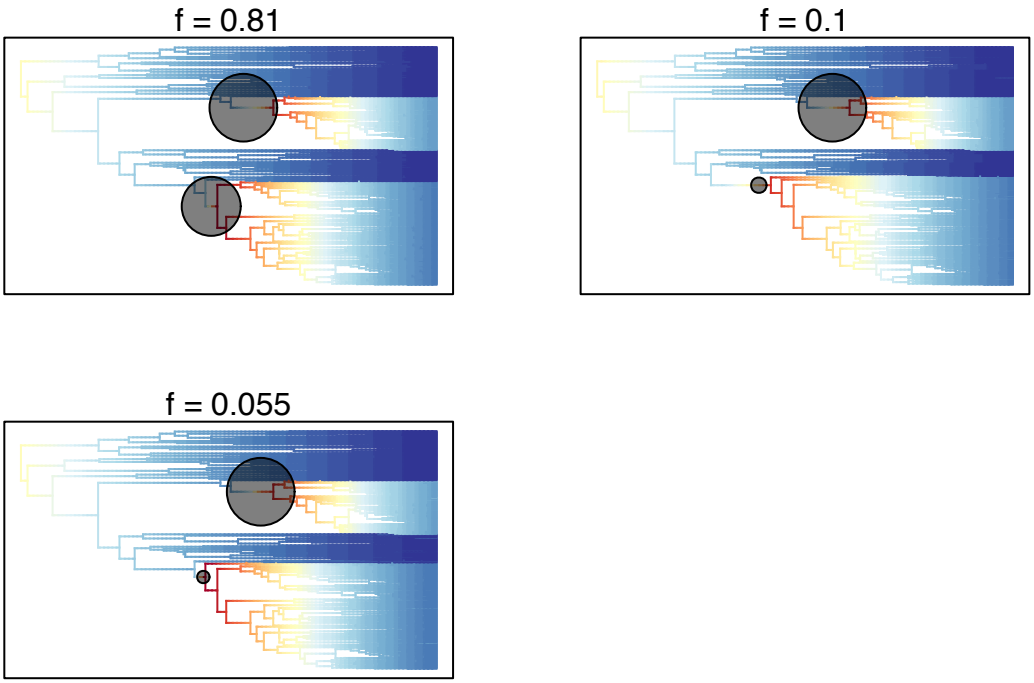


Fig. S14a

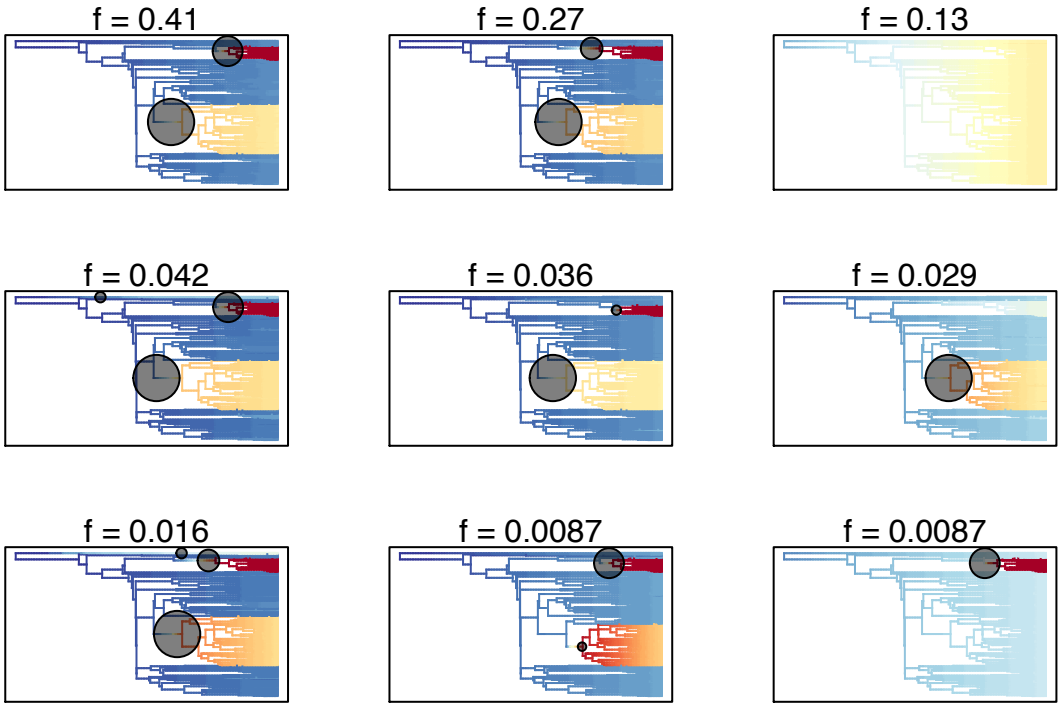


Fig. S14b

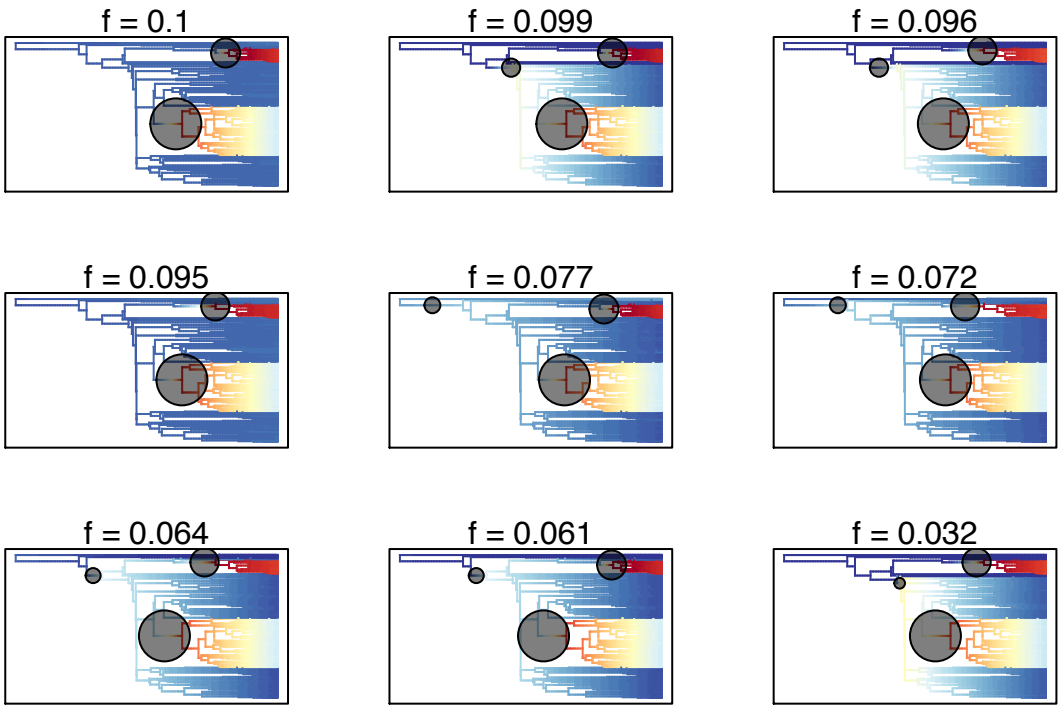
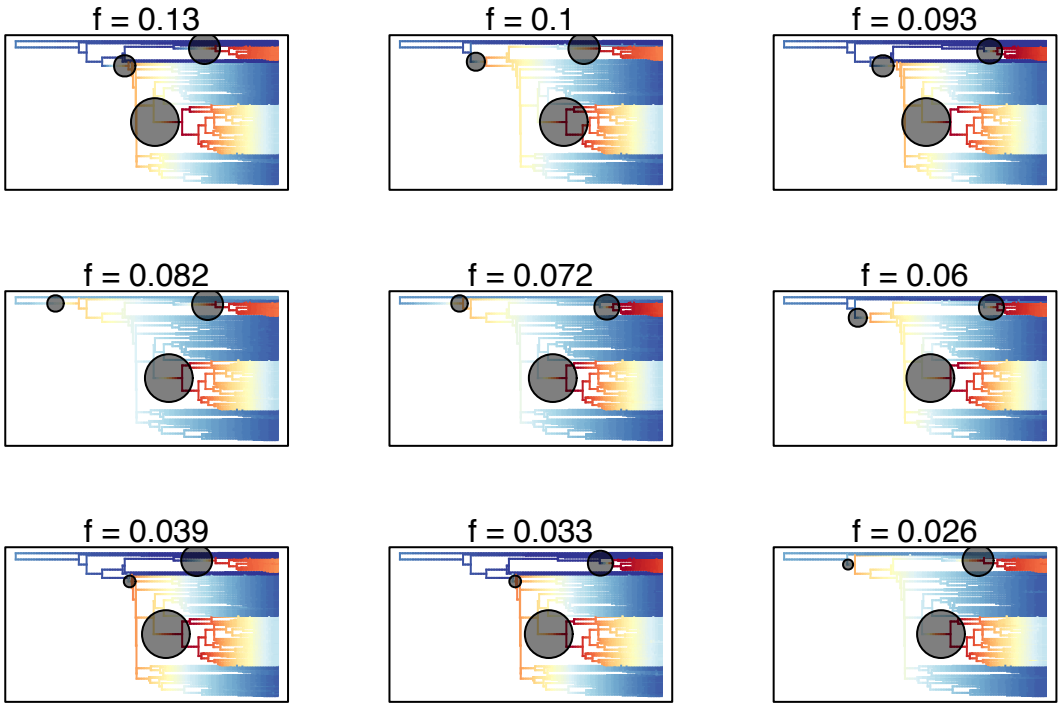


Fig. S14c



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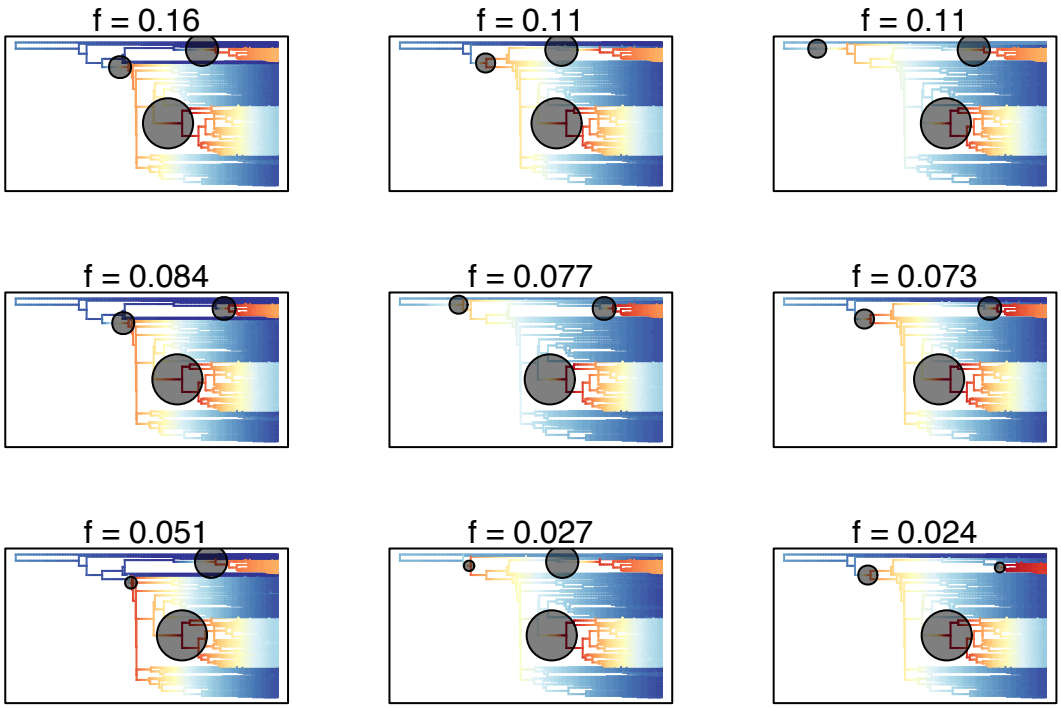

Fig. S15a

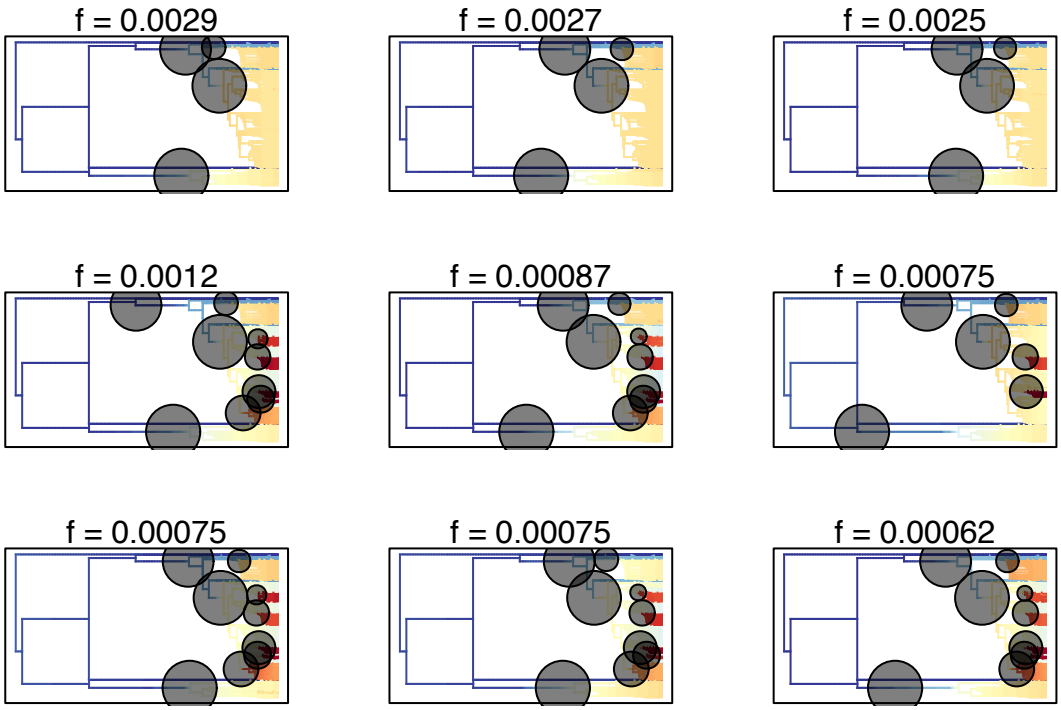

Fig. S15b

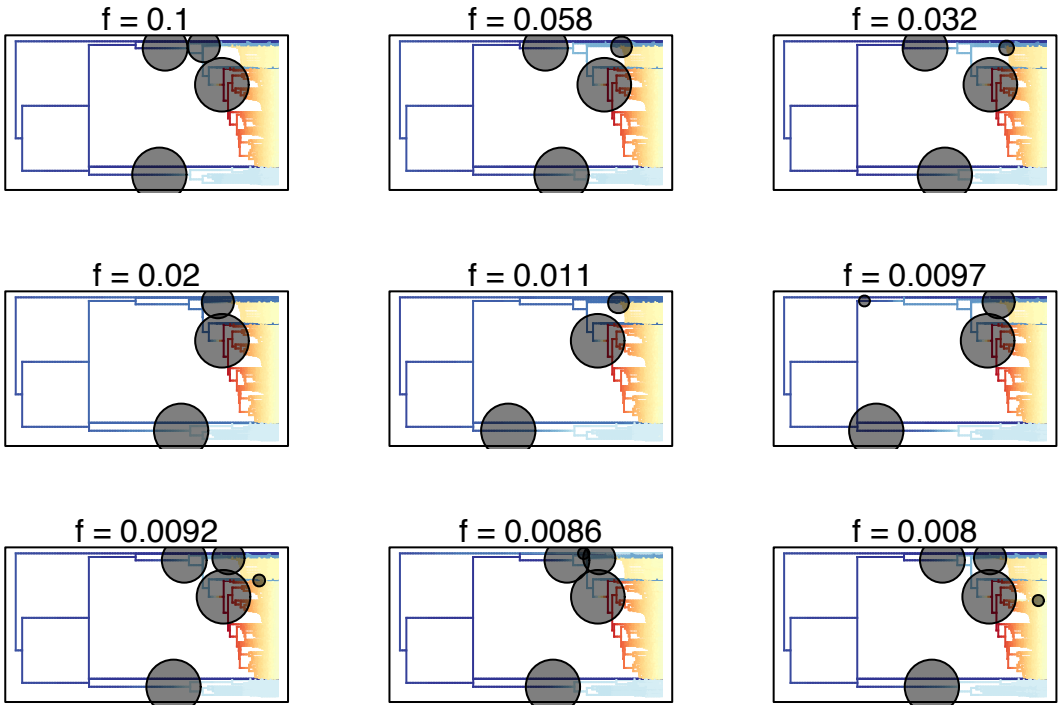

Fig. S15c

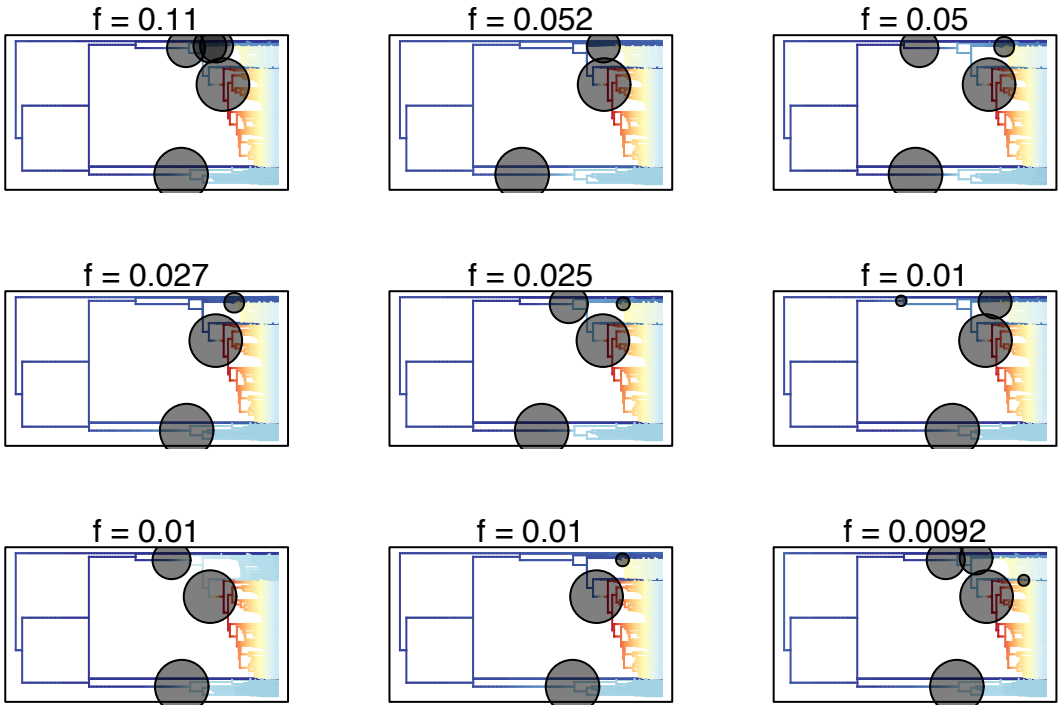

Fig. S15d