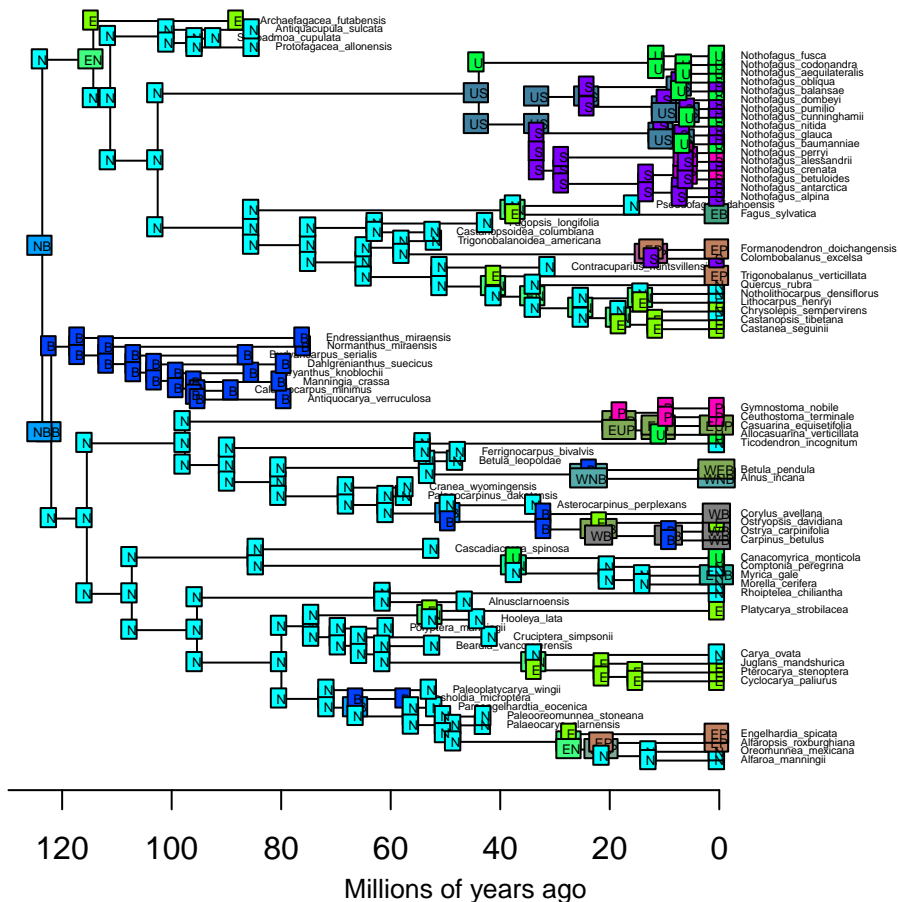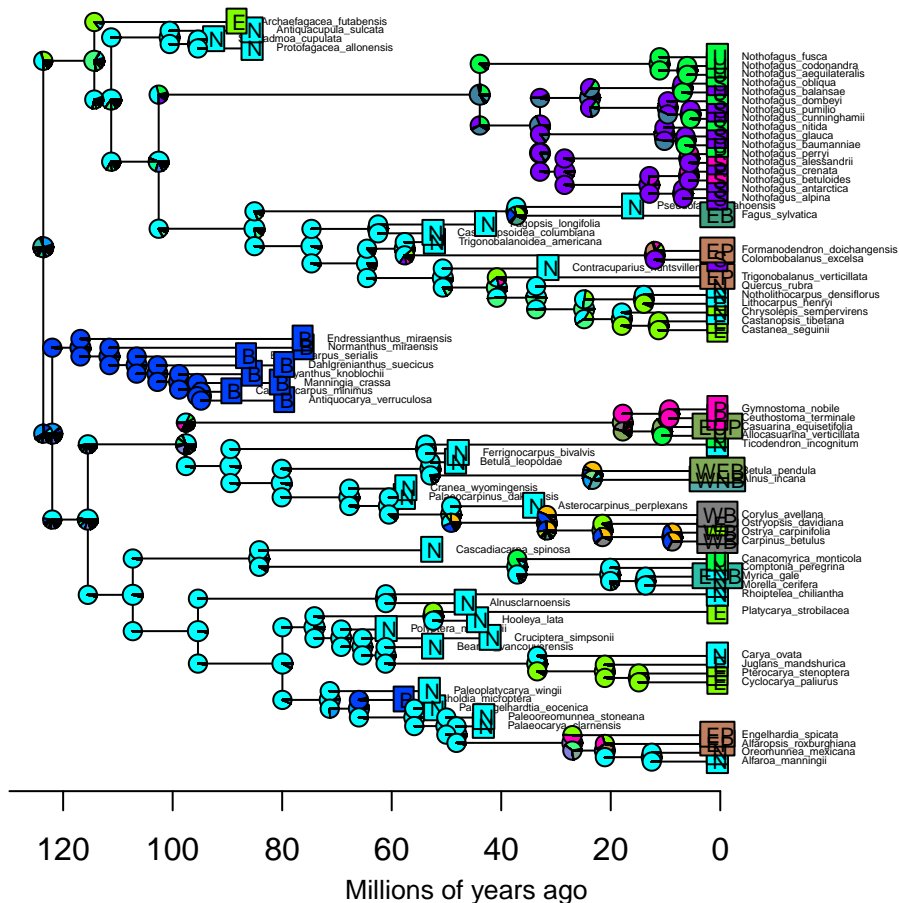**BioGeoBEARS DEC**
ancstates: global optim, 5 areas max. d=0.0018; e=0.0017; j=0; LnL=−193.33
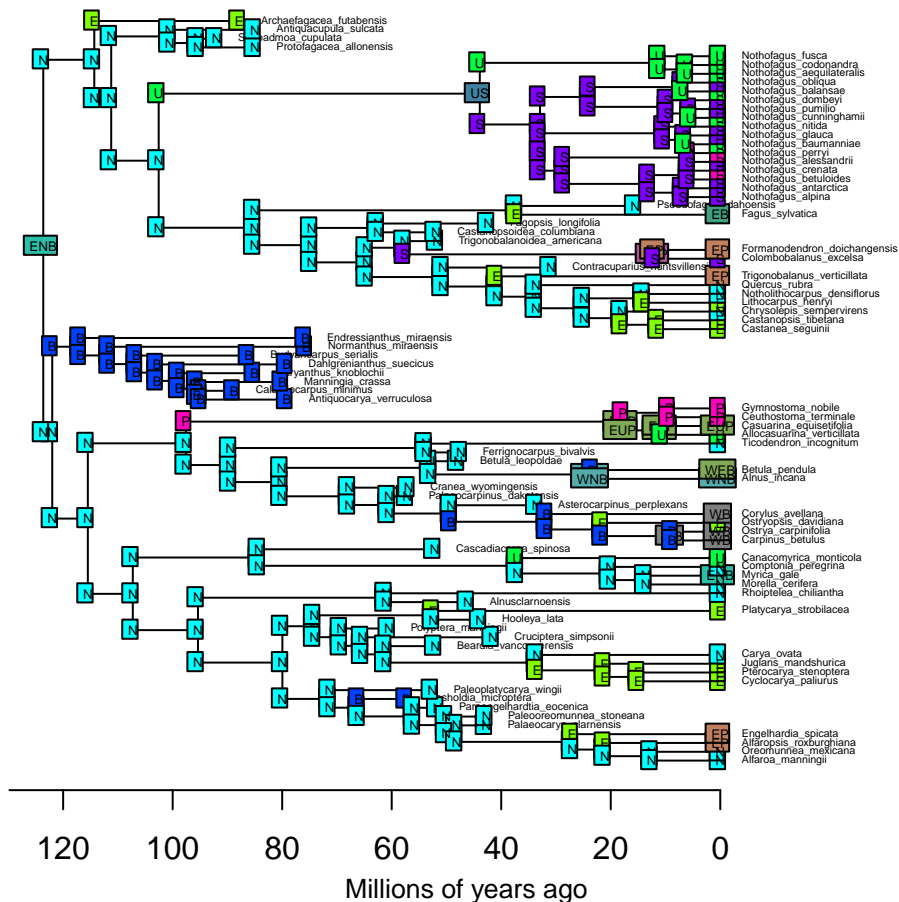
BioGeoBEARS DEC
ancstates: global optim, 5 areas max. d=0.0018; e=0.0017; j=0; LnL=−193.33

Archaefagacea_futabensis
Antiquacupula_sulcata
Castanea_cupulata
Protofagacea_allonensis
Nothofagus_fusca
Nothofagus_codonandra
Nothofagus_aequilateralis
Nothofagus_obliqua
Nothofagus_balansae
Nothofagus_dombeyi
Nothofagus_pumilio
Nothofagus_cunninghamii
Nothofagus_nitida
Nothofagus_glauca
Nothofagus_baumanniae
Nothofagus_perryi
Nothofagus_alessandrii
Nothofagus_crenata
Nothofagus_betuloides
Nothofagus_antarctica
Nothofagus_alpina
Pseudofagus_idahoensis
Fagus_sylvatica
Castanopsis_longifolia
Castanopsoidea_columbiana
Trigonobalanoidea_americana
Formanodendron_doichangensis
Colombobalanus_excelsa
Contracuparius_frontsvillensis
Trigonobalanus_verticillata
Quercus_rubra
Notholithocarpus_densiflorus
Lithocarpus_henryi
Chrysolepis_sempervirens
Castanopsis_tibetana
Castanea_seguinii
Endressianthus_miraensis
Normanthus_miraensis
Eotrigonobalanus_serialis
Dahlgrenianthus_suecicus
Berryanthus_knoblochii
Manningia_crassa
Castaneophyllum_minimus
Antiquocarya_verruculosa
Gymnostoma_nobile
Ceuthostoma_terminale
Casuarina_equisetifolia
Allocasuarina_verticillata
Ticodendron_incognitum
Ferrignocarpus_bivalvis
Betula_leopoldae
Betula_pendula
Alnus_incana
Cranea_wyomingensis
Palaeocarpinus_dakotensis
Asterocarpinus_perplexans
Corylus_avellana
Ostryopsis_davidiana
Ostrya_carpinifolia
Carpinus_betulus
Cascadiacarpa_spinosa
Canacomyrica_monticola
Comptonia_peregrina
Myrica_gale
Morella_cerifera
Rhoiptelea_chiliantha
Platycarya_strobilacea
Alnusclarnoensis
Hooleya_lata
Polyptera_manningii
Beardia_vancouverensis
Crucipptera_simpsonii
Carya_ovata
Juglans_mandshurica
Pterocarya_stenoptera
Cyclocarya_paliurus
Paleoplatycarya_wingii
Cruciptholdia_microptera
Paraengelhardtia_eocenica
Paleooreomunnea_stoneana
Paleocarya_simulacrensis
Engelhardia_spicata
Alfaropsis_roxburghiana
Oreomunnea_mexicana
Alfaroa_manningii

120	100	80	60	40	20	0

Millions of years ago

BioGeoBEARS DEC+J
ancstates: global optim, 5 areas max. d=0.001; e=0; j=0.0252; LnL=−175.45

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ancstates: global optim, 5 areas max. d=0.001; e=0; j=0.0252; LnL=−175.45

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Millions of years ago