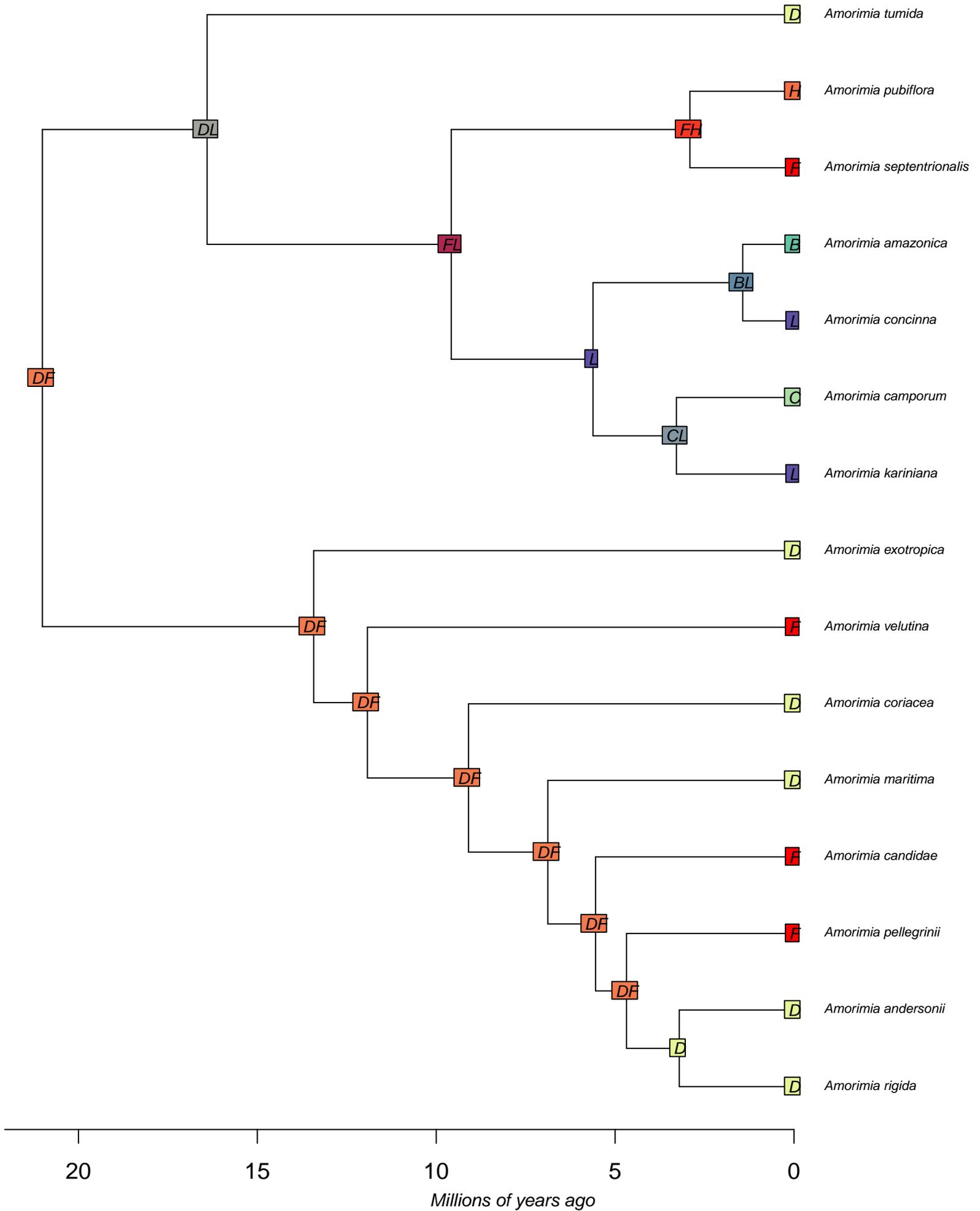
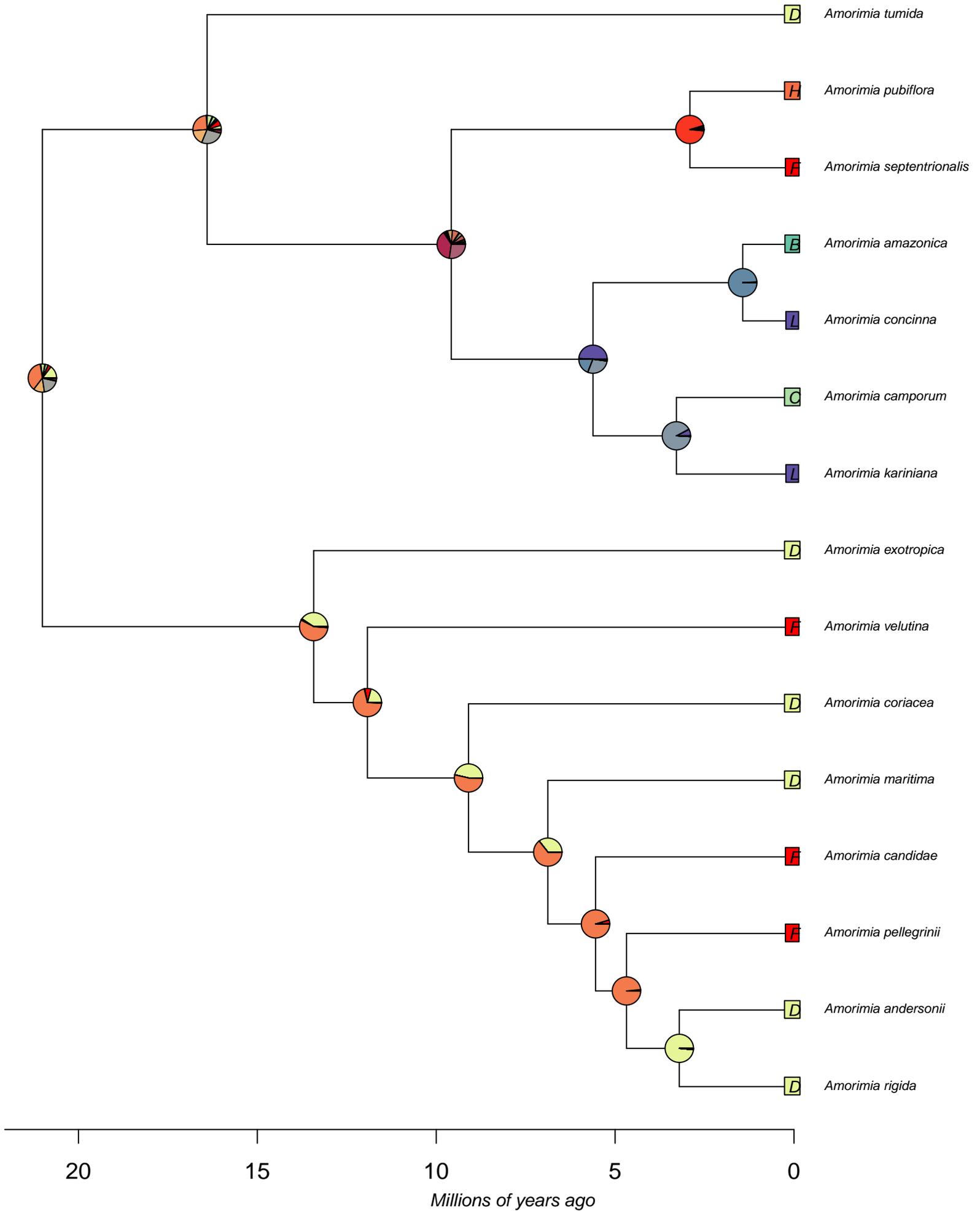


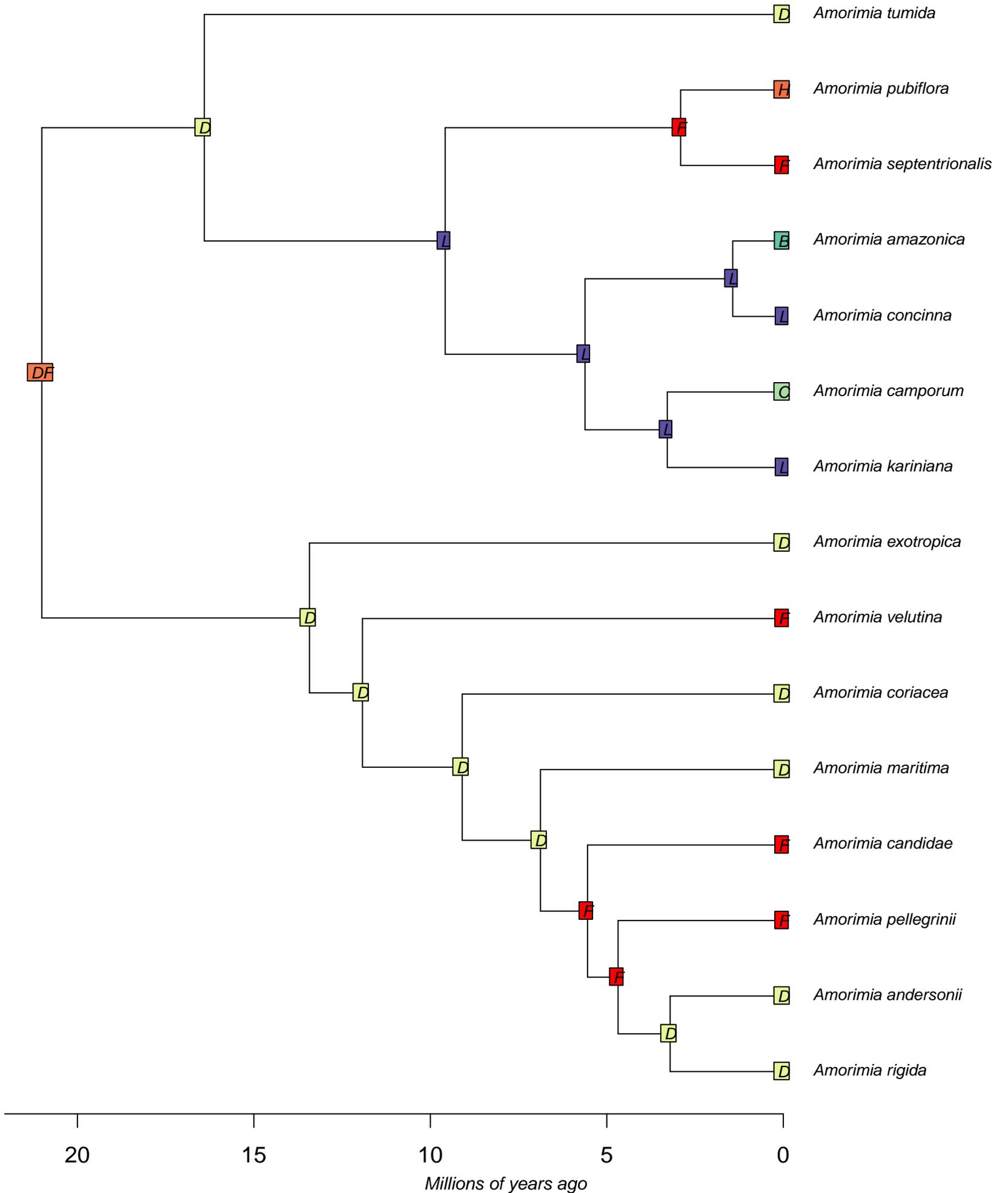
Amorimia BioGeoBEARS DEC  
ancstates: global optim, 2 areas max. d=0.012; e=0.0093; j=0; LnL=-37.67



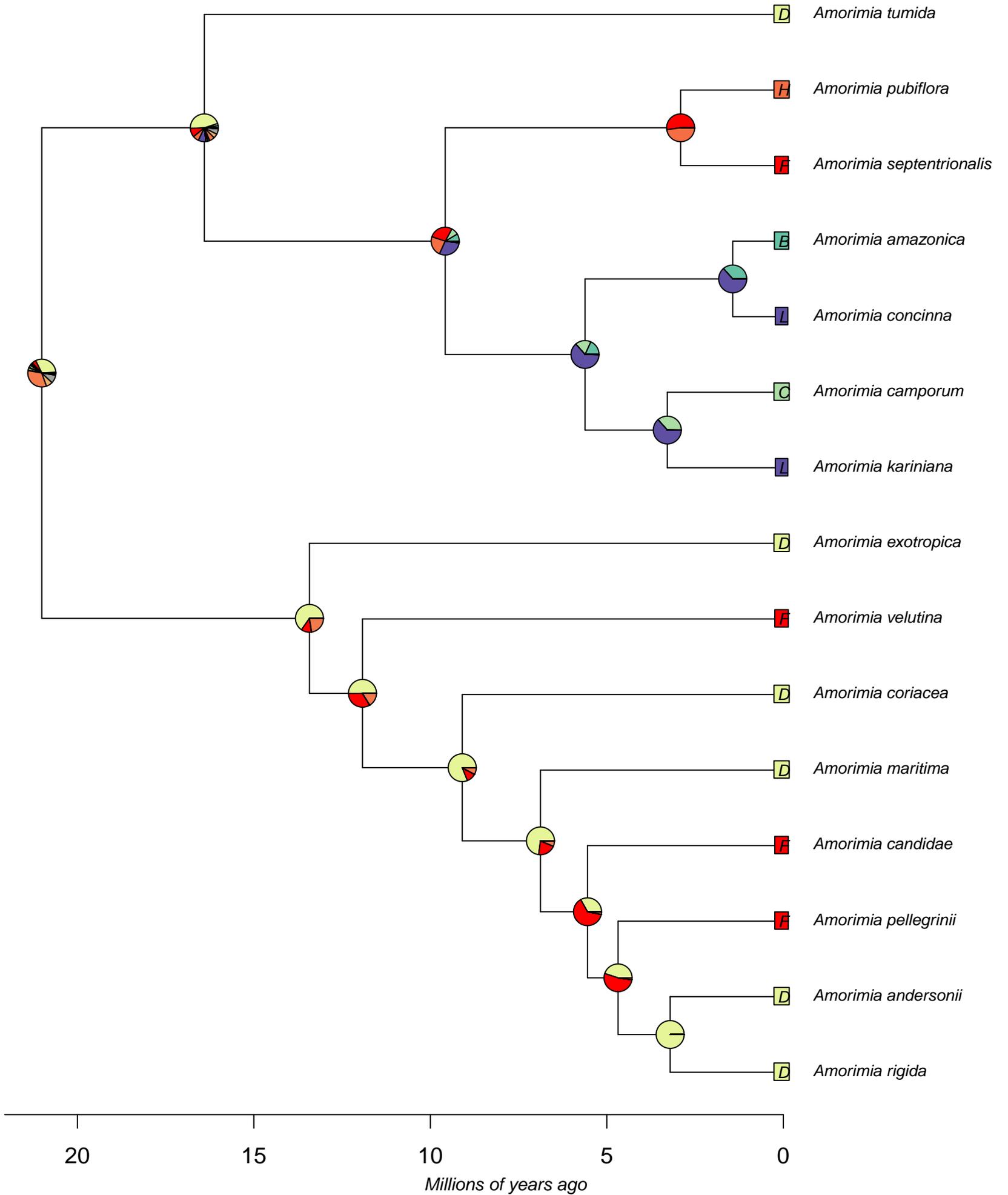
**Amorimia BioGeoBEARS DEC**  
 ancstates: global optim, 2 areas max. d=0.012; e=0.0093; j=0; LnL=-37.67



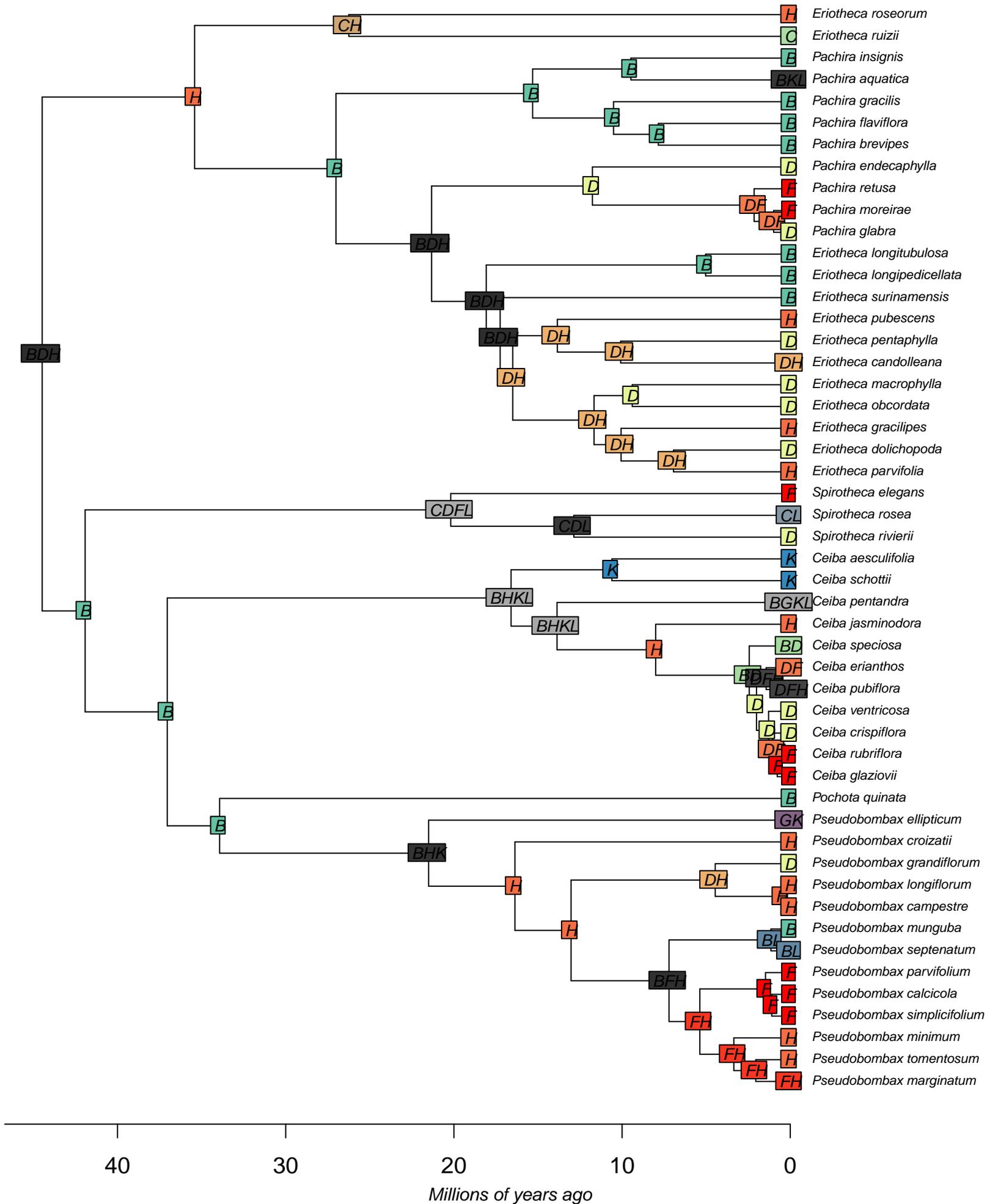
Amorimia BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0; e=0; j=0.1899; LnL=-23.54



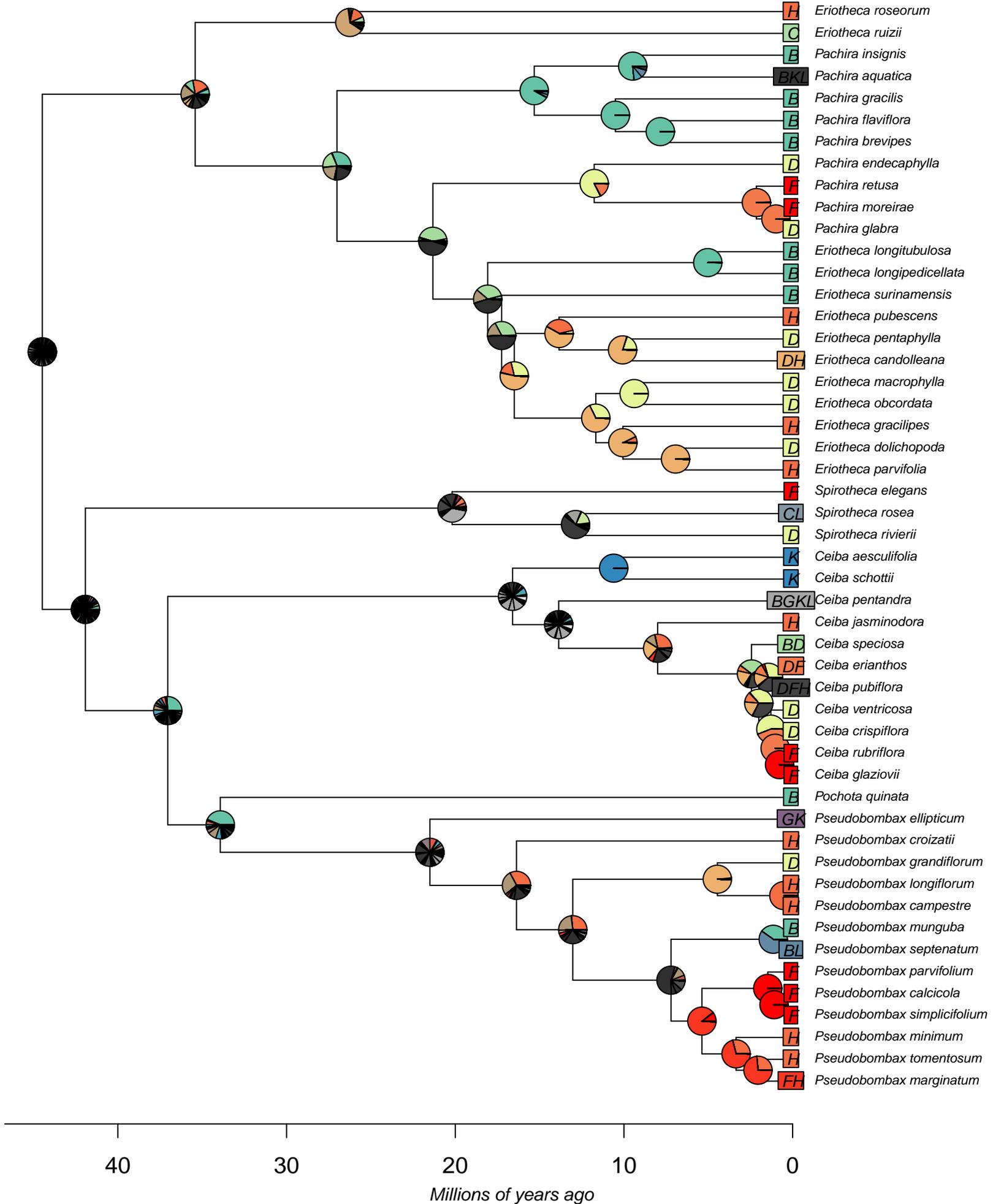
Amorimia BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0; e=0; j=0.1899; LnL=-23.54



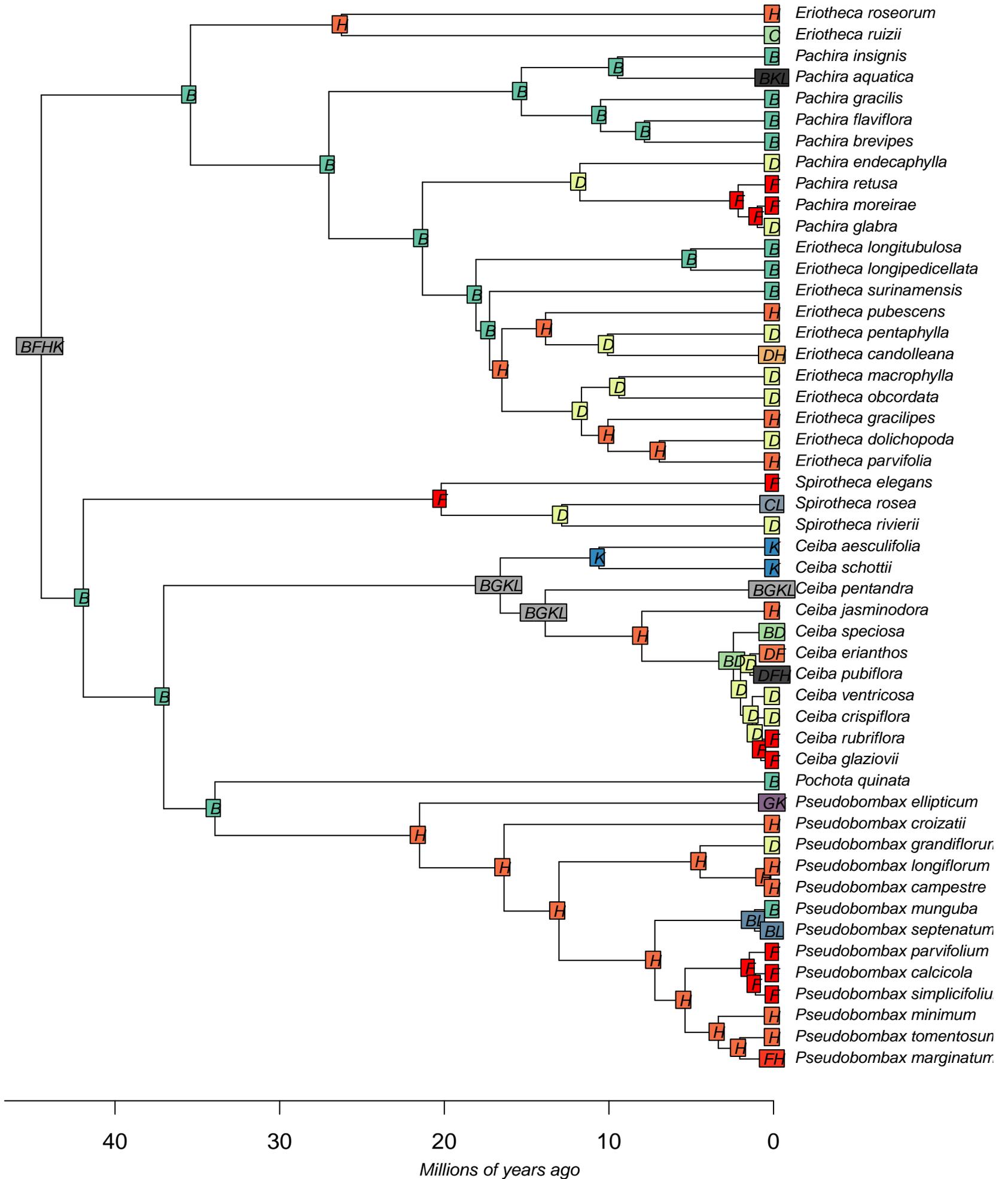
**Bombacoids BioGeoBEARS DEC**  
 ancstates: global optim, 4 areas max. d=0.0051; e=0.0023; j=0; LnL=-145.67



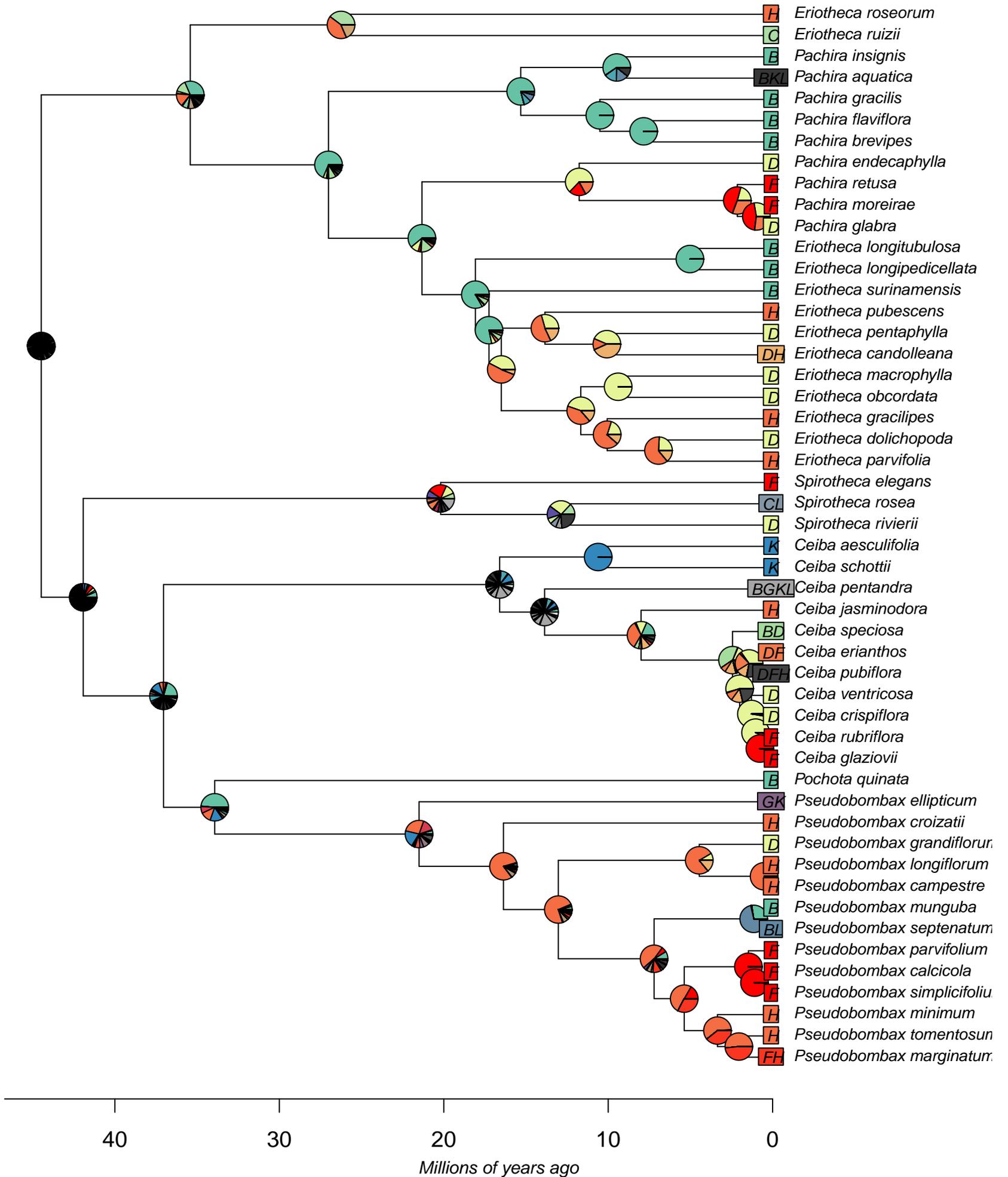
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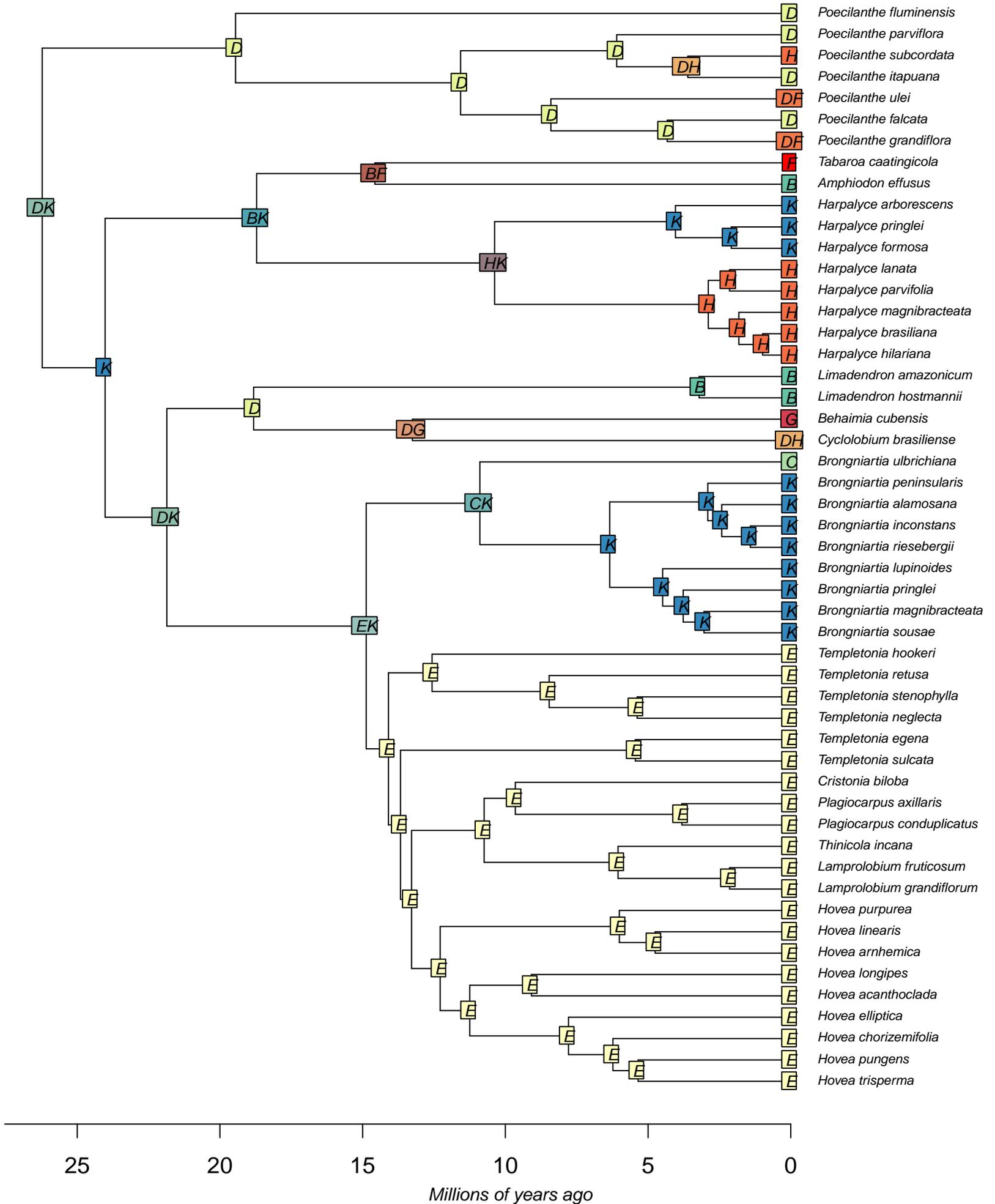
**Bombacoids BioGeoBEARS DEC+J**  
 ancstates: global optim, 4 areas max. d=0.0033; e=0; j=0.0485; LnL=-134.14



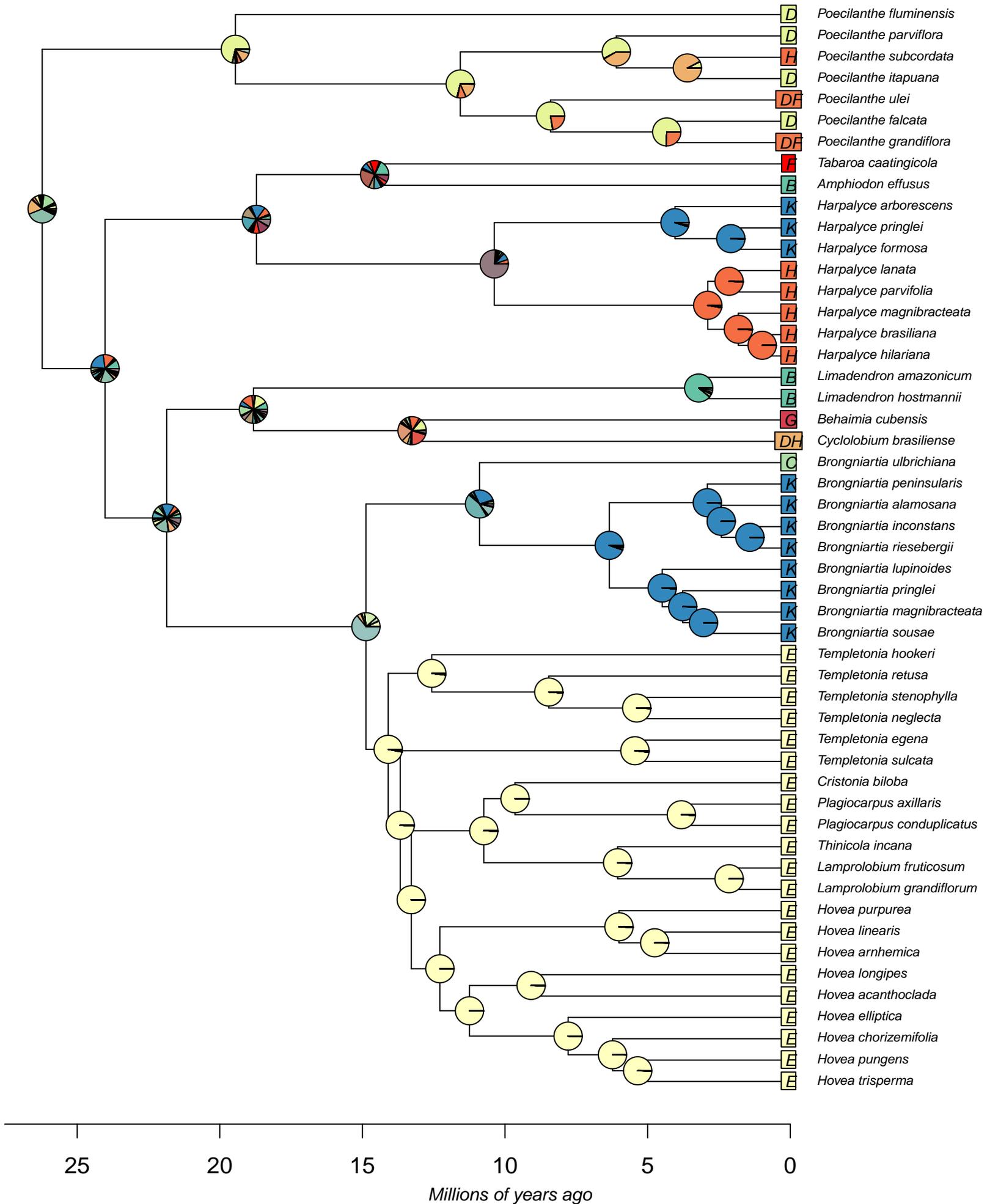
**Bombacoids BioGeoBEARS DEC+J**  
 ancstates: global optim, 4 areas max. d=0.0033; e=0; j=0.0485; LnL=-134.14



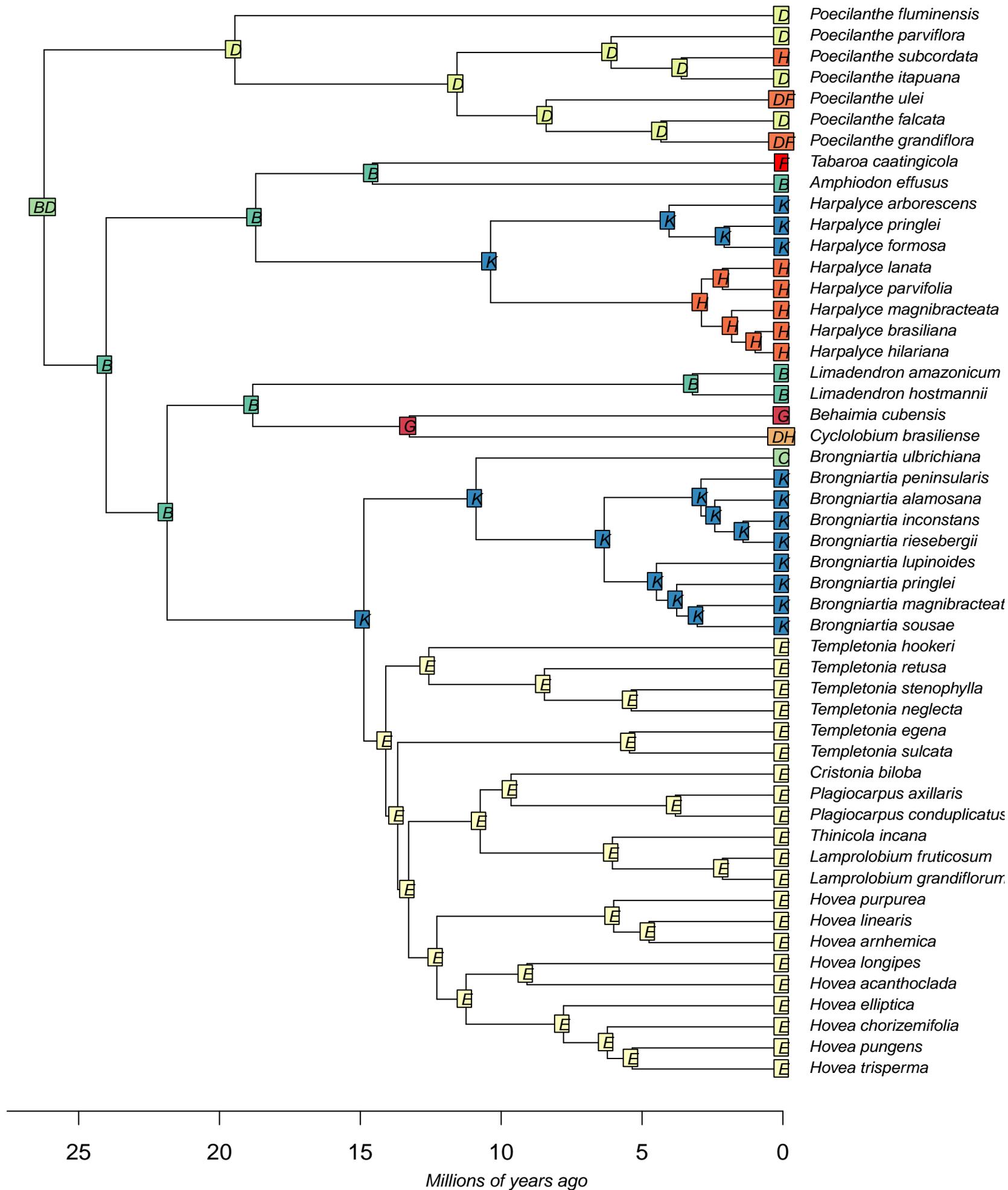
**Brongniartieae BioGeoBEARS DEC**  
 ancstates: global optim, 2 areas max. d=0.01; e=0.01; j=0; LnL=-74.61



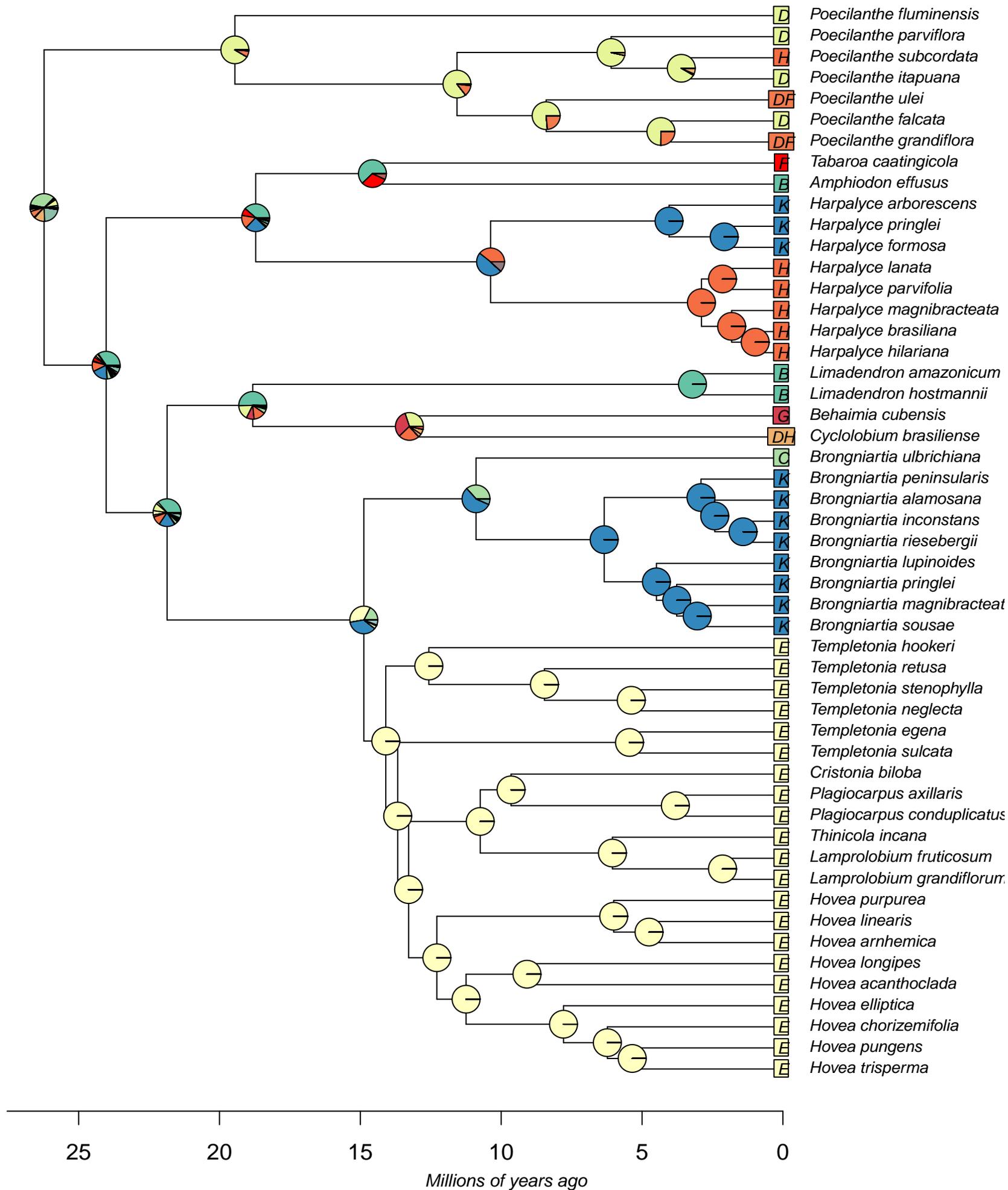
**Brongniartieae BioGeoBEARS DEC**  
 ancstates: global optim, 2 areas max. d=0.01; e=0.01; j=0; LnL=-74.61



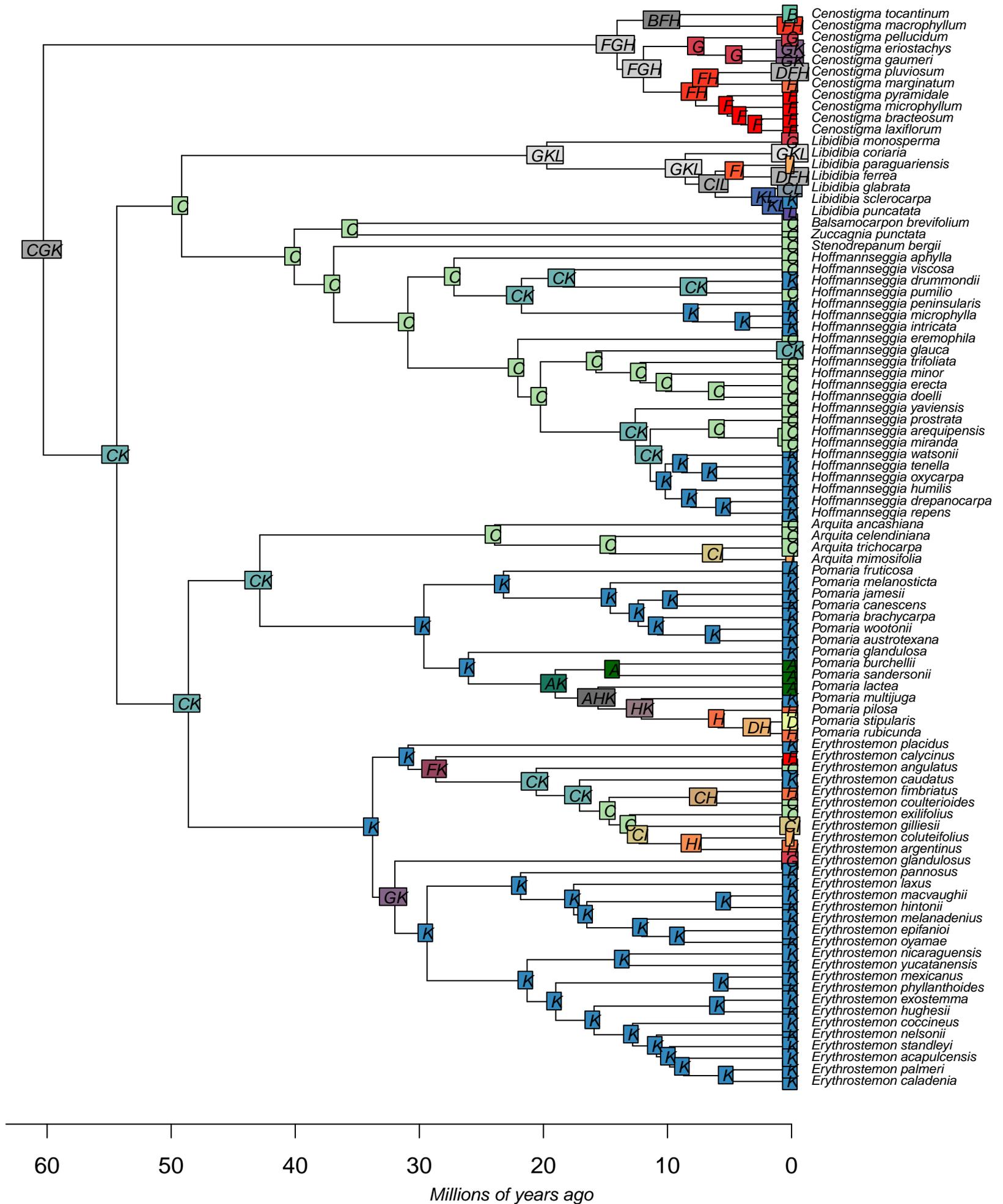
Brongniartieae BioGeoBEARS DEC+J  
 ancstates: global optim, 2 areas max. d=0.0012; e=0; j=0.0158; LnL=-60.77



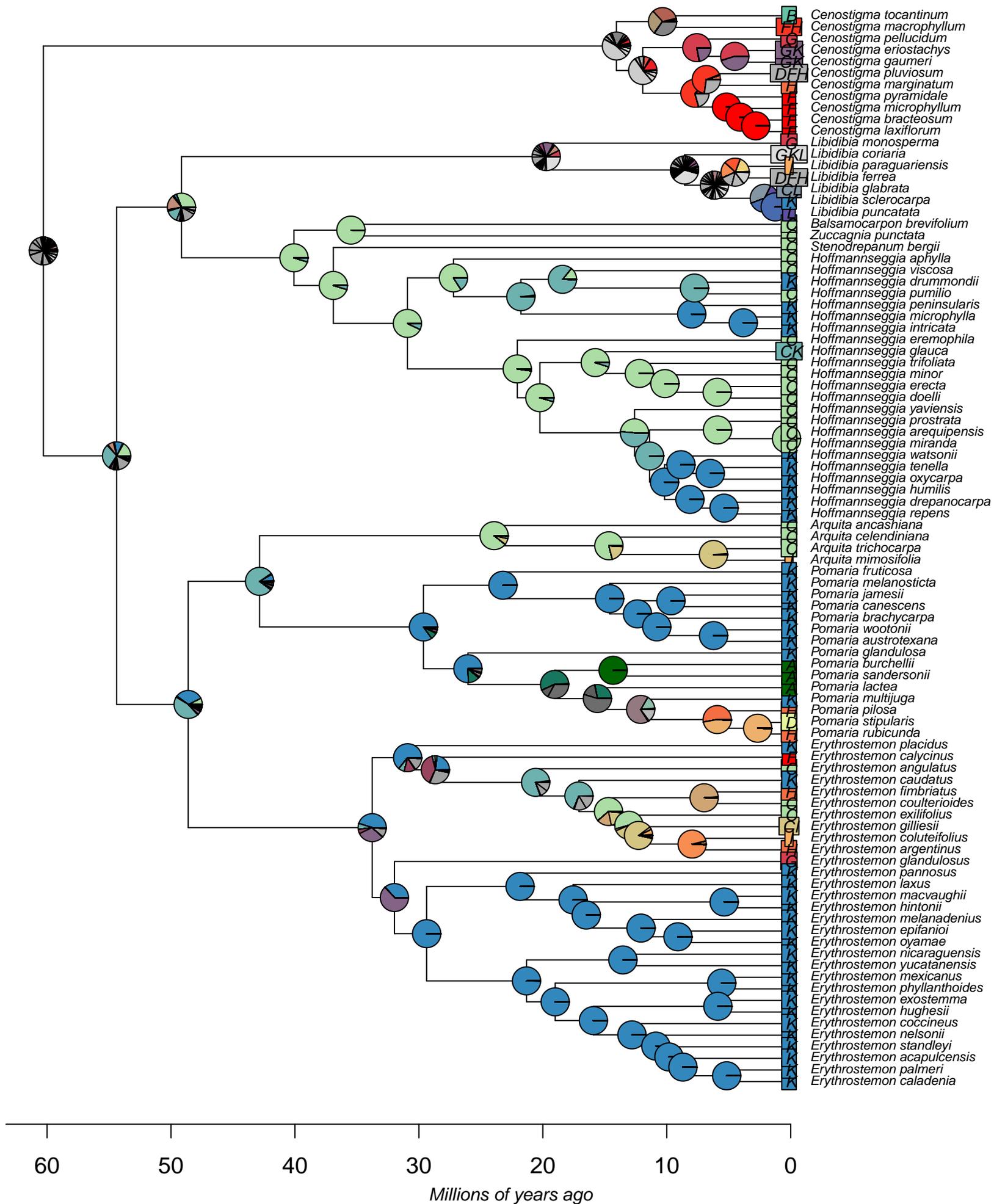
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 ancstates: global optim, 2 areas max. d=0.0012; e=0; j=0.0158; LnL=-60.77



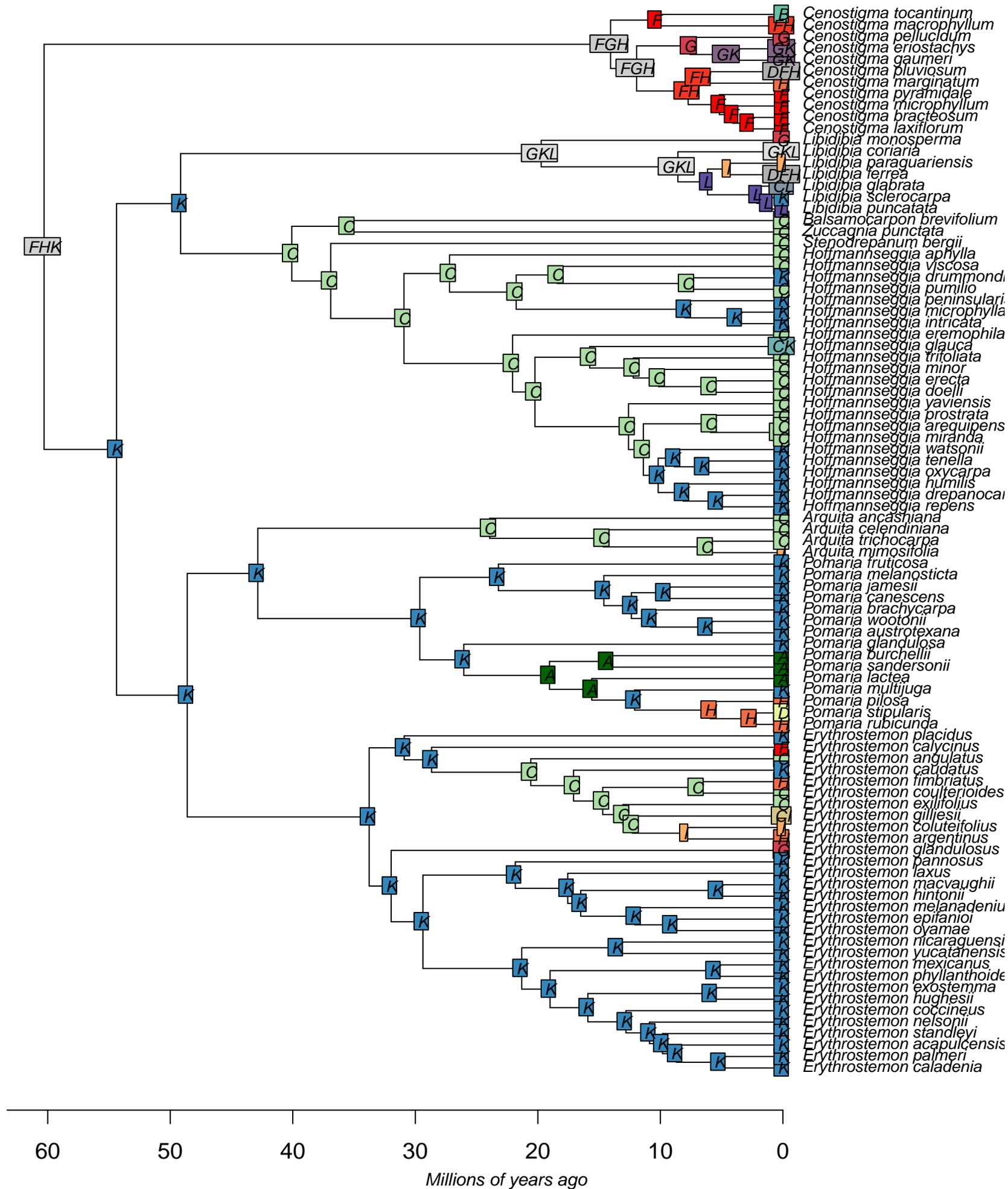
Caesalpinia BioGeoBEARS DEC  
 ancstates: global optim, 3 areas max. d=0.0021; e=8e-04; j=0; LnL=-197.16



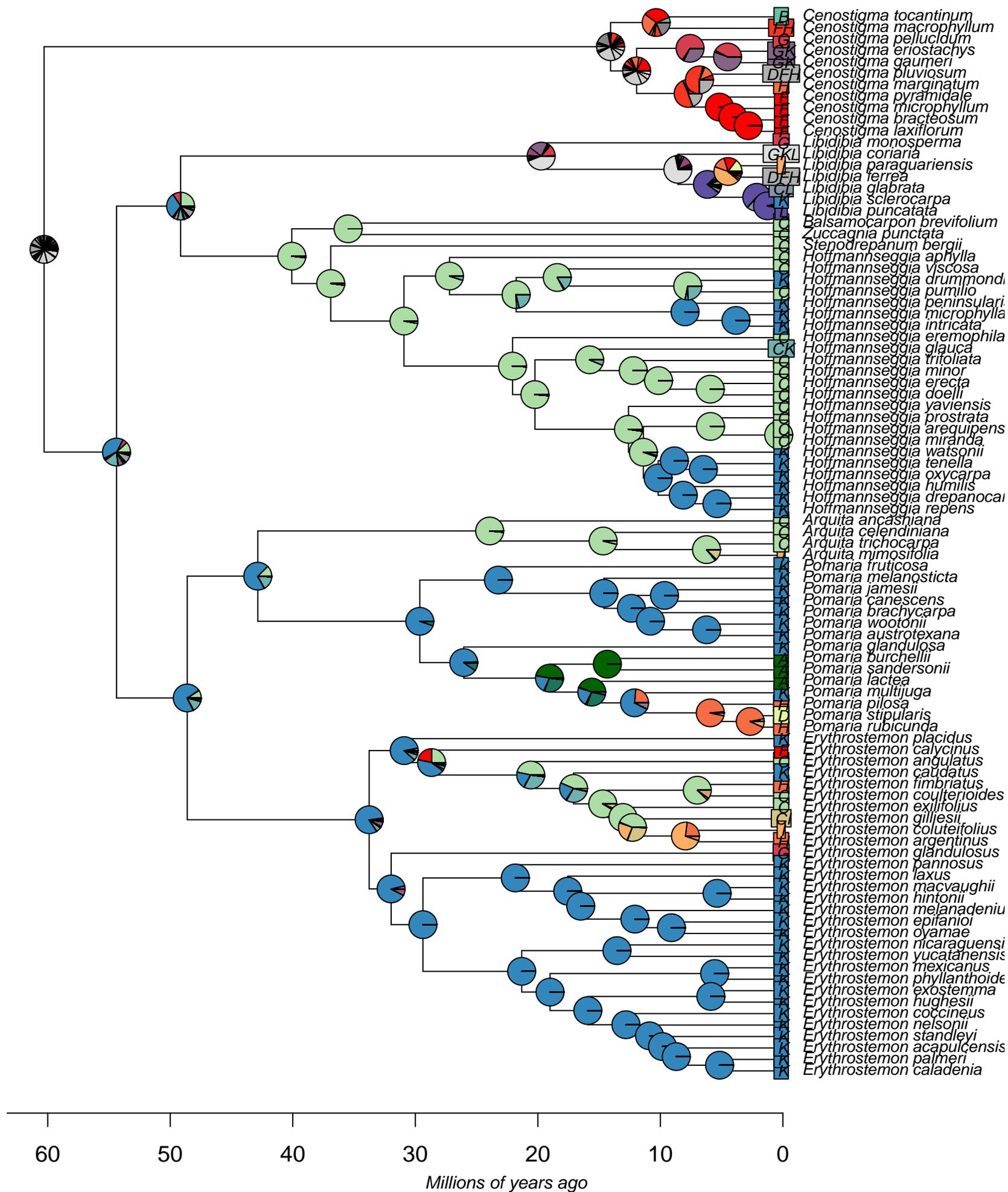
Caesalpinia BioGeoBEARS DEC  
 ancstates: global optim, 3 areas max. d=0.0021; e=8e-04; j=0; LnL=-197.16



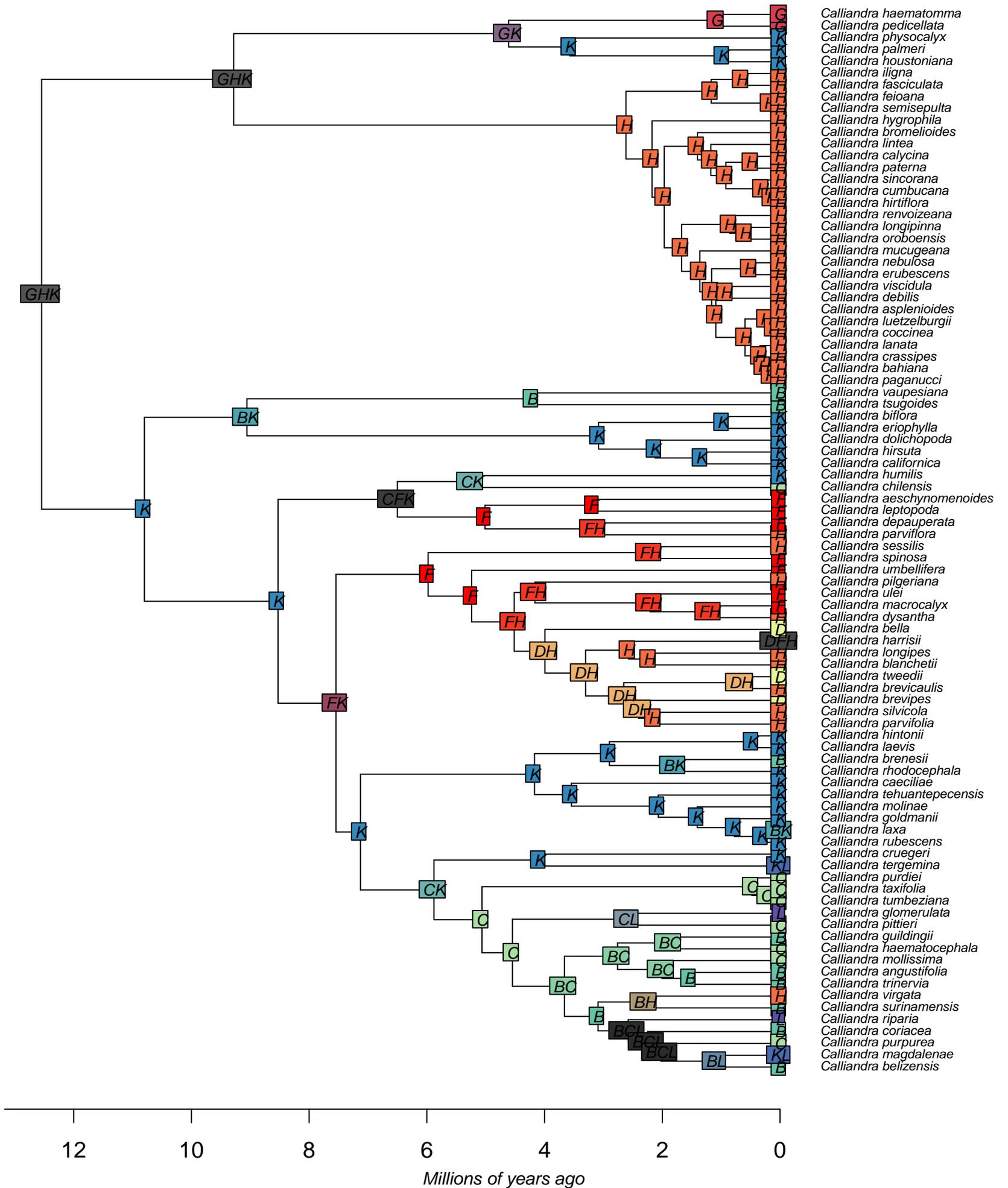
Caesalpinia BioGeoBEARS DEC+J  
 ancstates: global optim, 3 areas max. d=0.001; e=0; j=0.0167; LnL=-176.37



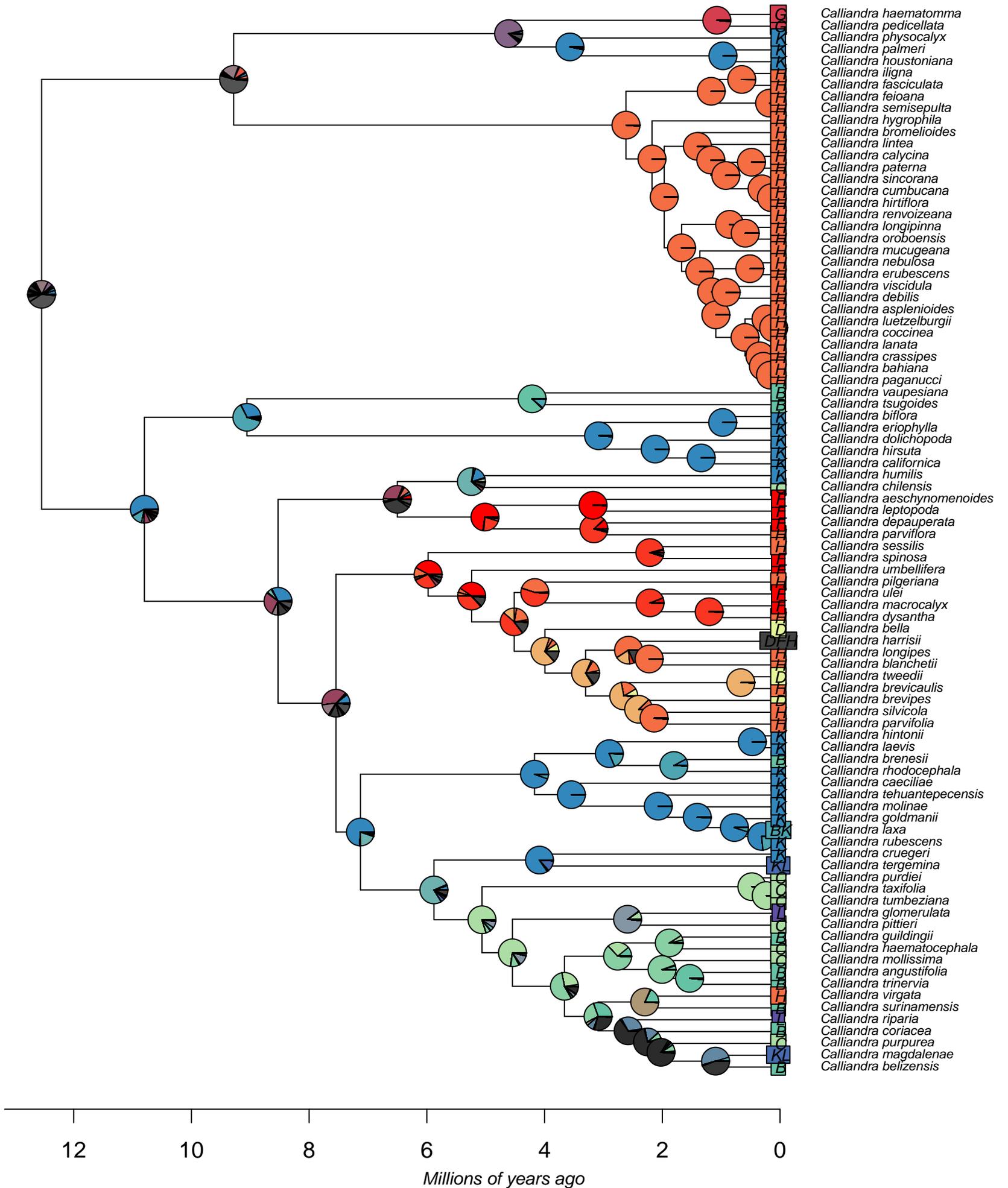
Caesalpinia BioGeoBEARS DEC+J  
 ancstates: global optim, 3 areas max. d=0.001; e=0; j=0.0167; LnL=-176.37



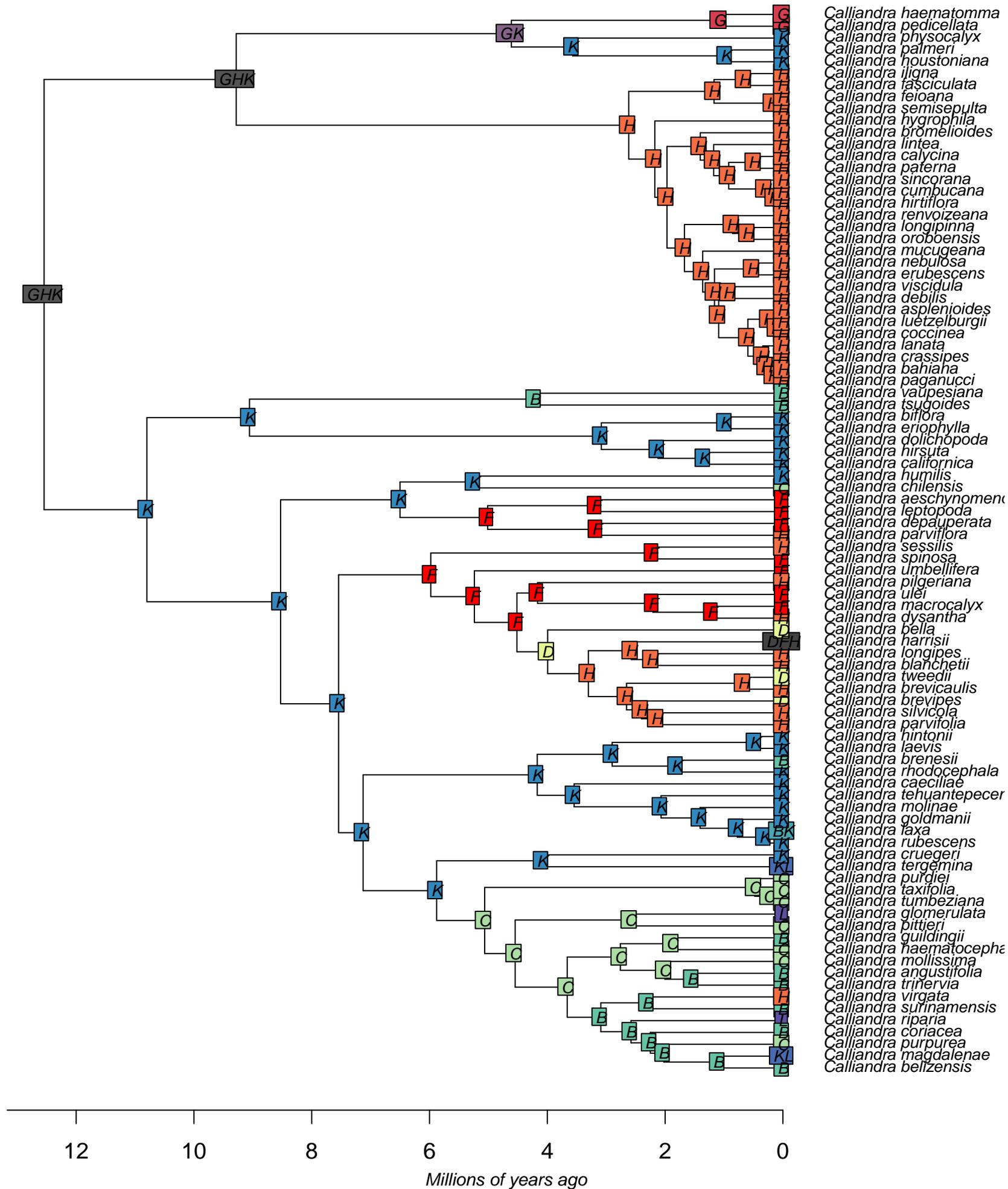
Calliandra BioGeoBEARS DEC  
 ancstates: global optim, 3 areas max. d=0.0129; e=0.0128; j=0; LnL=-159.03



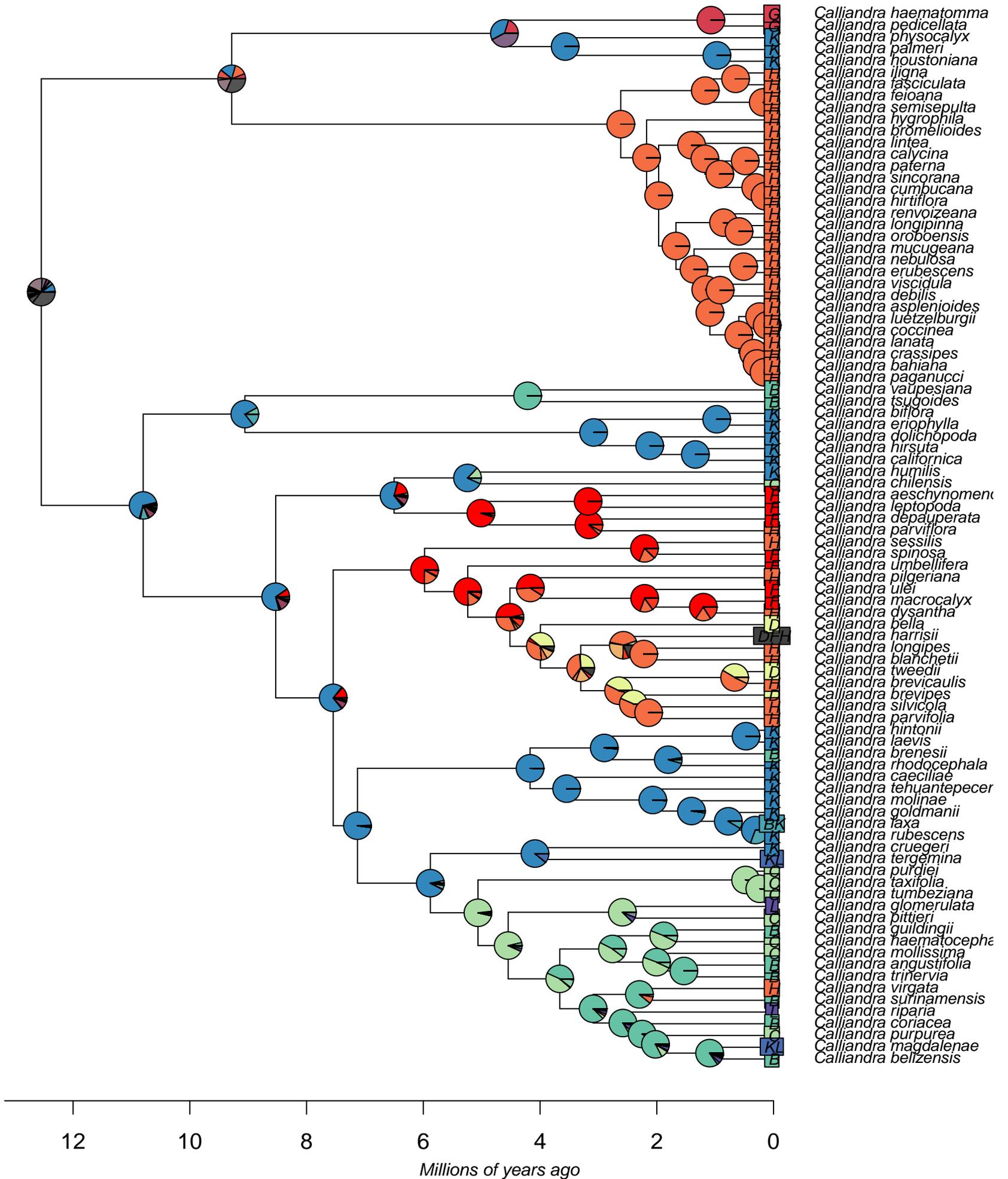
Calliandra BioGeoBEARS DEC  
 ancstates: global optim, 3 areas max. d=0.0129; e=0.0128; j=0; LnL=-159.03



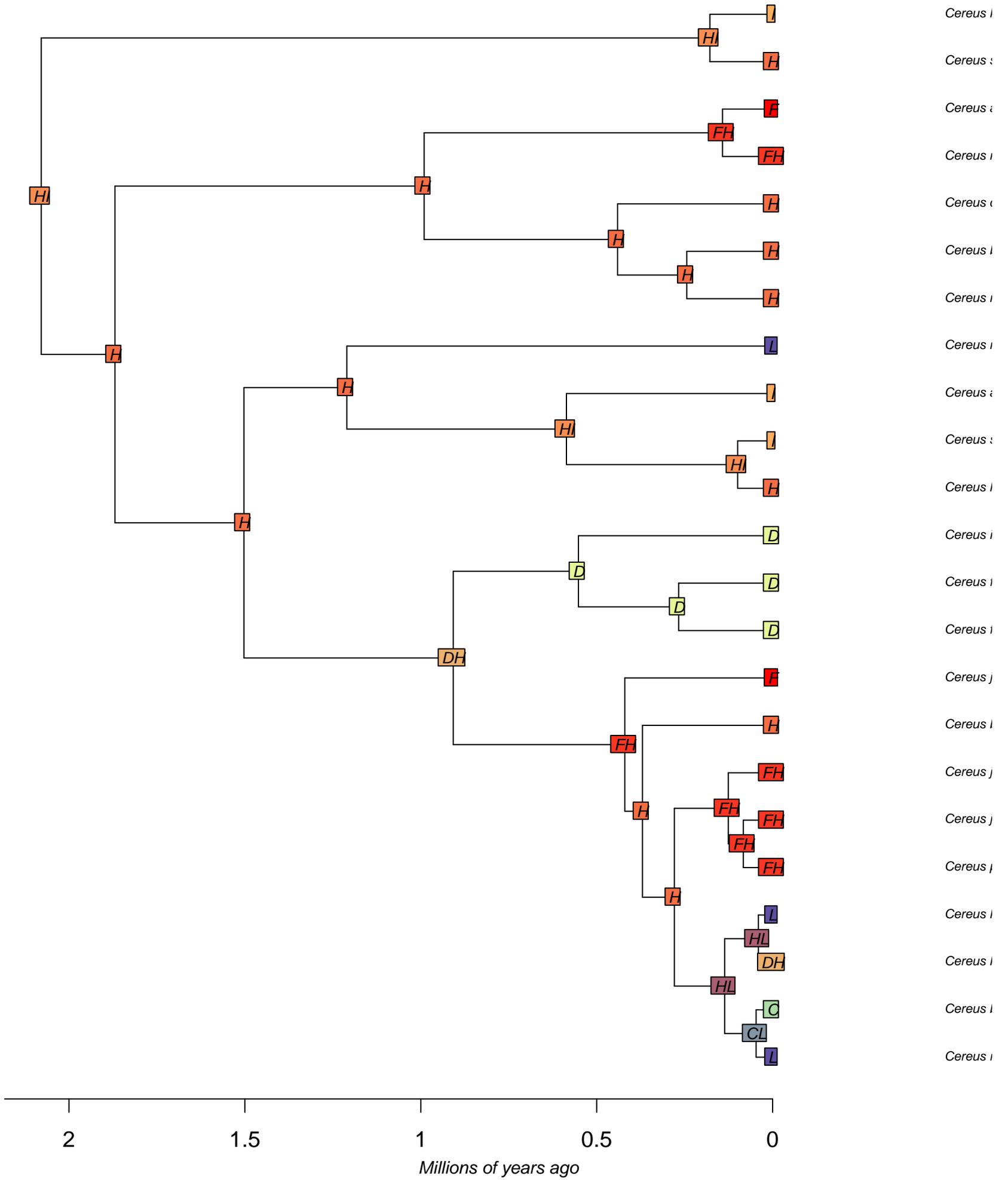
Calliandra BioGeoBEARS DEC+J  
 ancstates: global optim, 3 areas max. d=0.0035; e=0; j=0.0247; LnL=-137.16



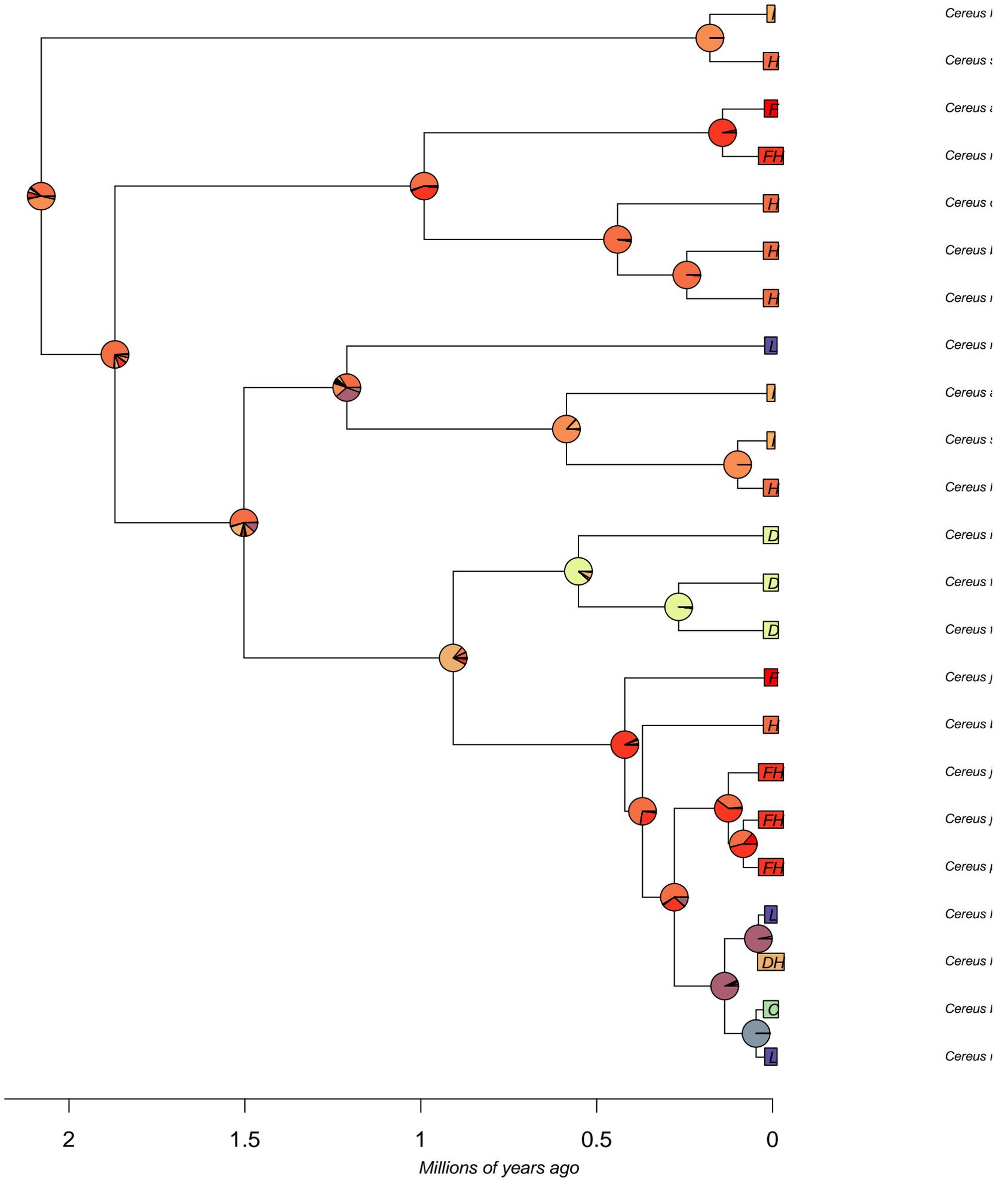
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 ancstates: global optim, 3 areas max. d=0.0035; e=0; j=0.0247; LnL=-137.16



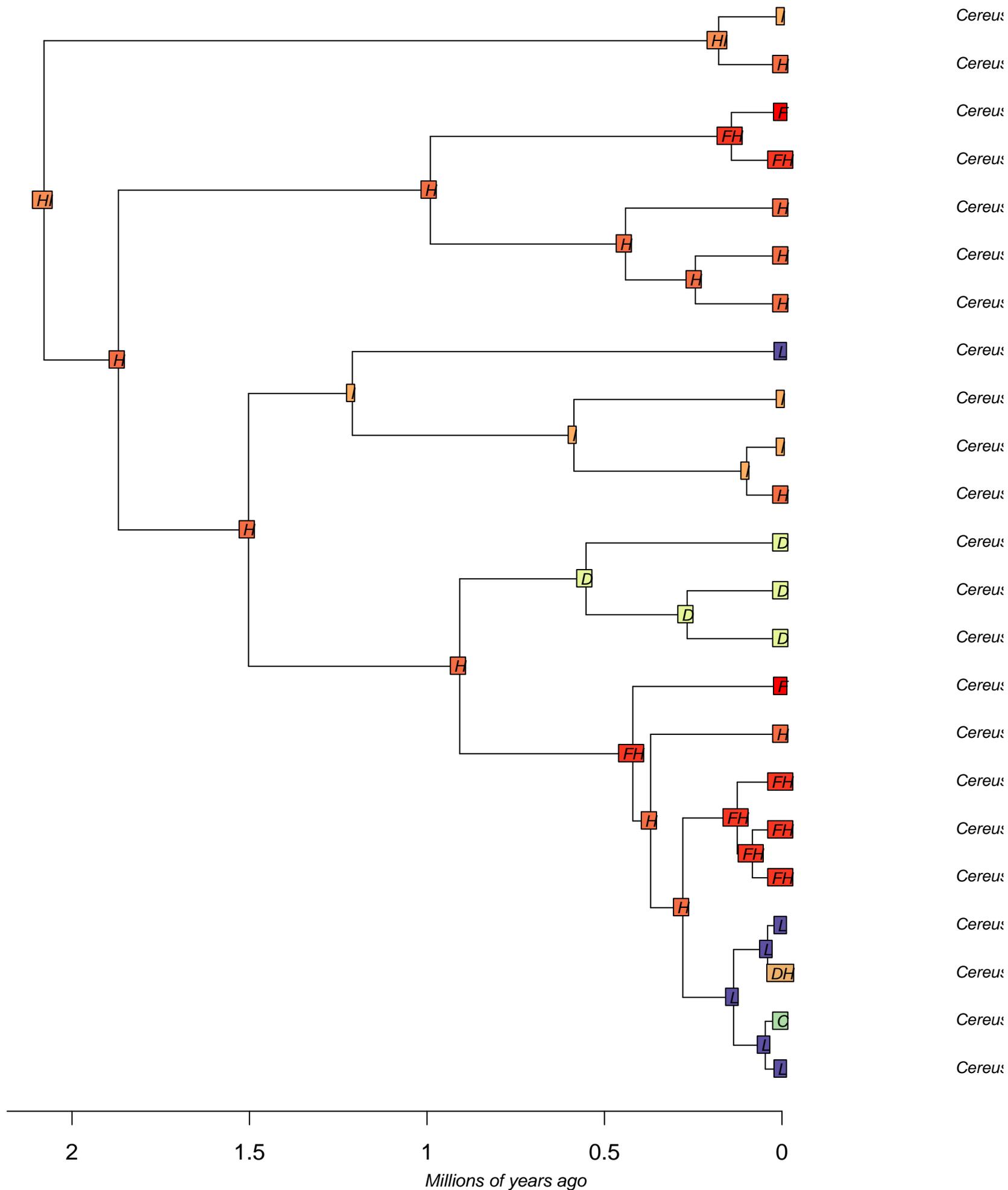
Cereus BioGeoBEARS DEC  
ancstates: global optim, 2 areas max. d=0.2671; e=0.087; j=0; LnL=-61.09



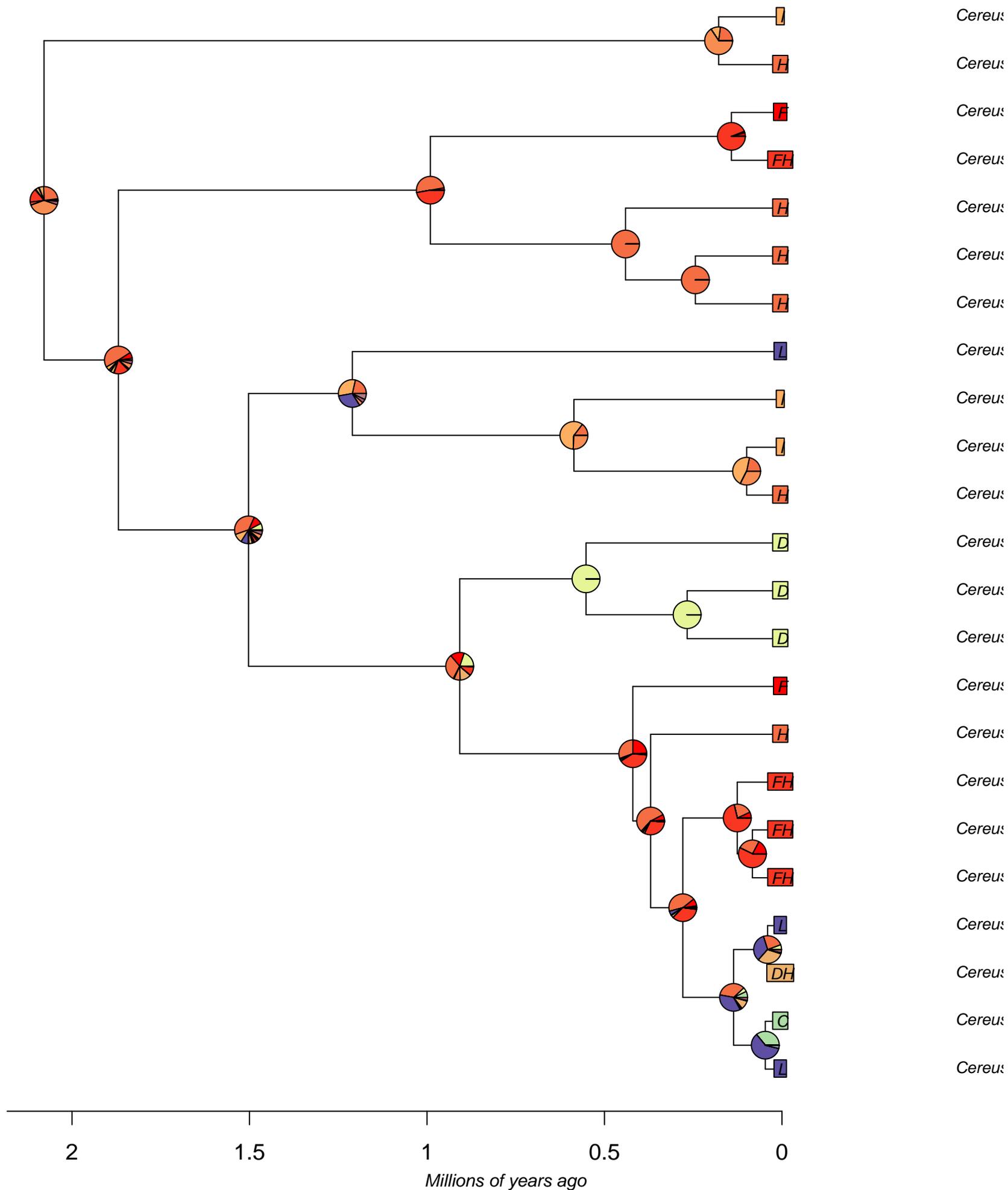
**Cereus BioGeoBEARS DEC**  
ancstates: global optim, 2 areas max. d=0.2671; e=0.087; j=0; LnL=-61.09



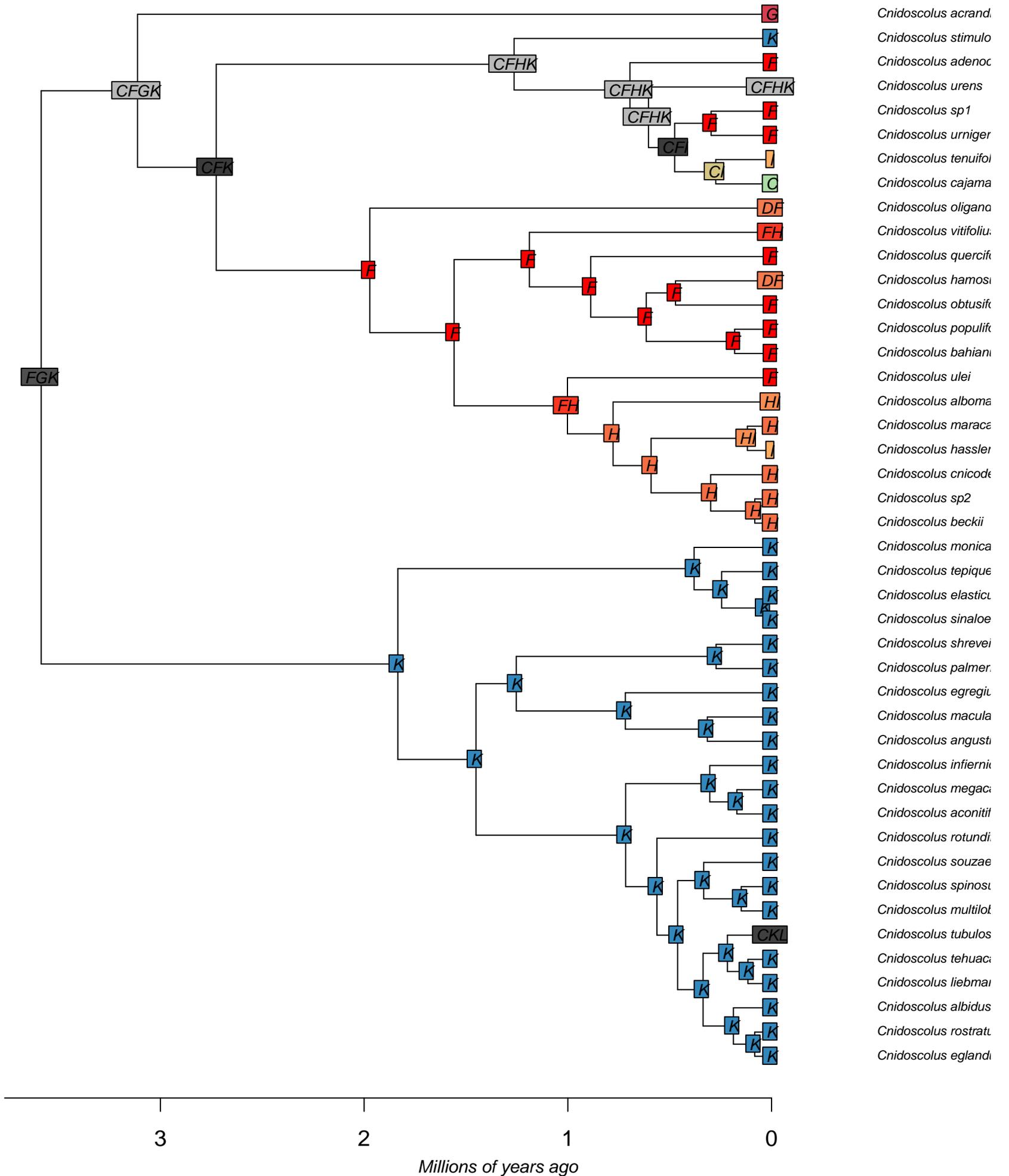
Cereus BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0.1099; e=0; j=0.0927; LnL=-55.80



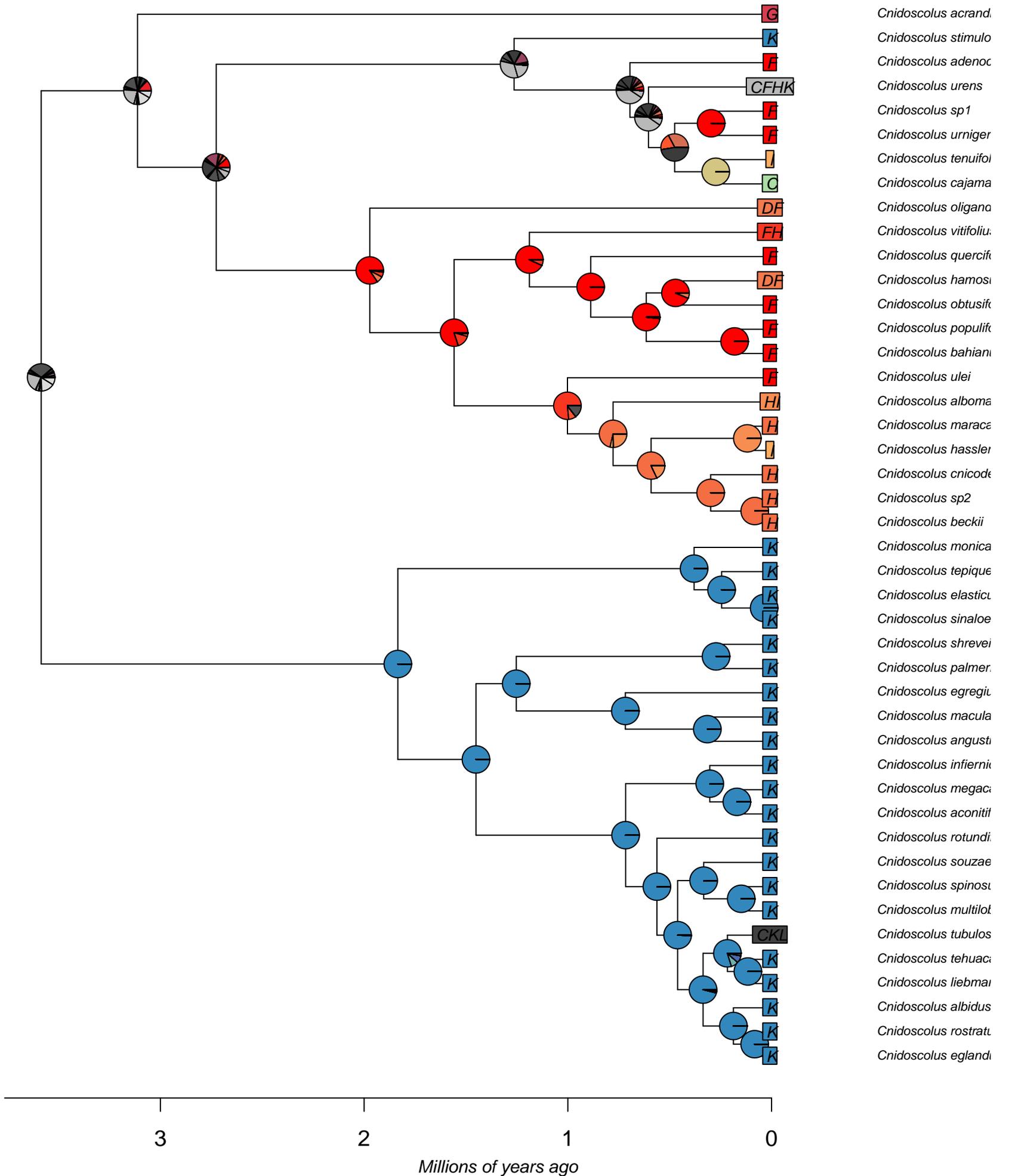
**Cereus BioGeoBEARS DEC+J**  
ancstates: global optim, 2 areas max. d=0.1099; e=0; j=0.0927; LnL=-55.80



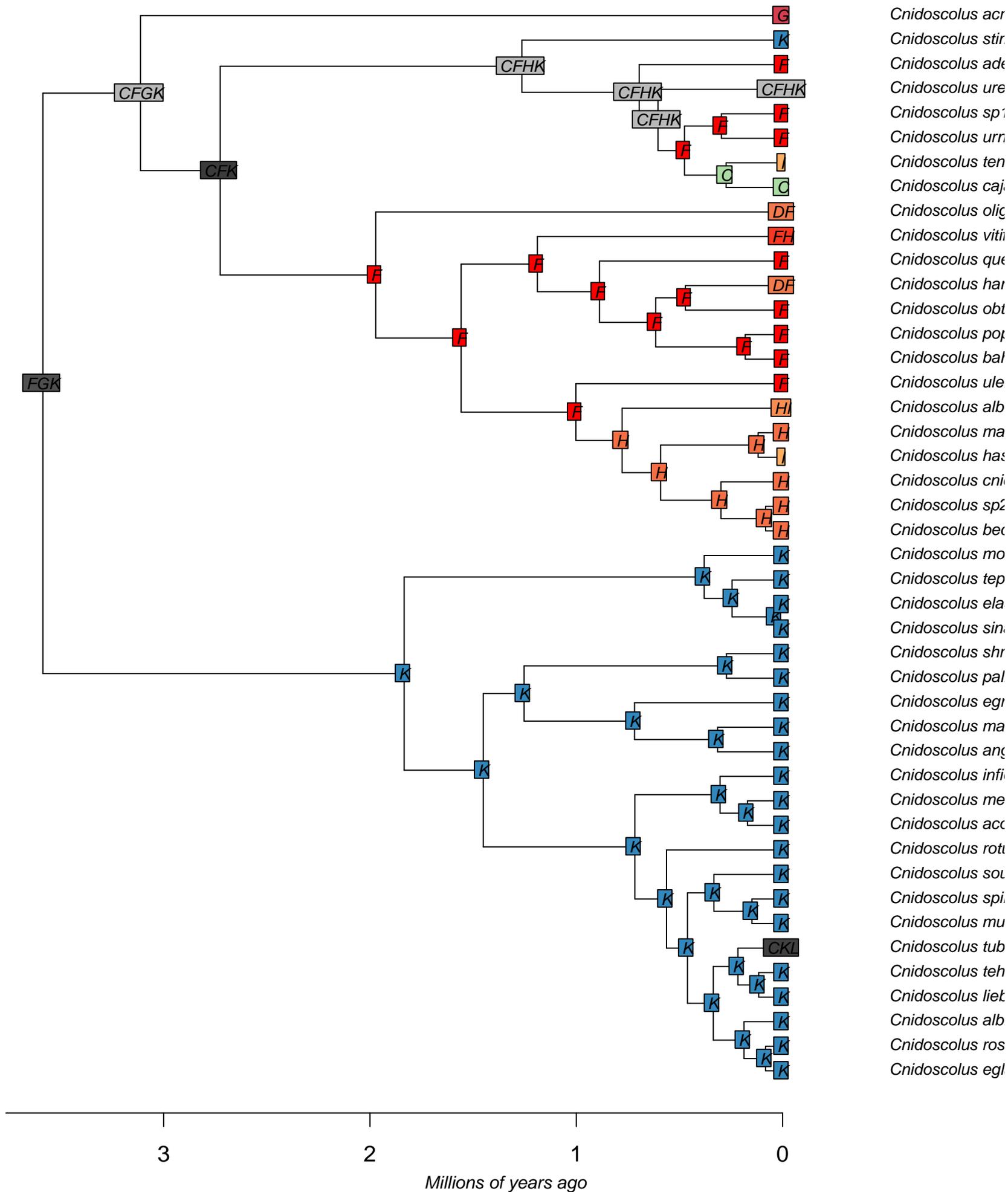
**Cnidoscolus BioGeoBEARS DEC**  
 ancstates: global optim, 4 areas max. d=0.0455; e=0; j=0; LnL=-69.68



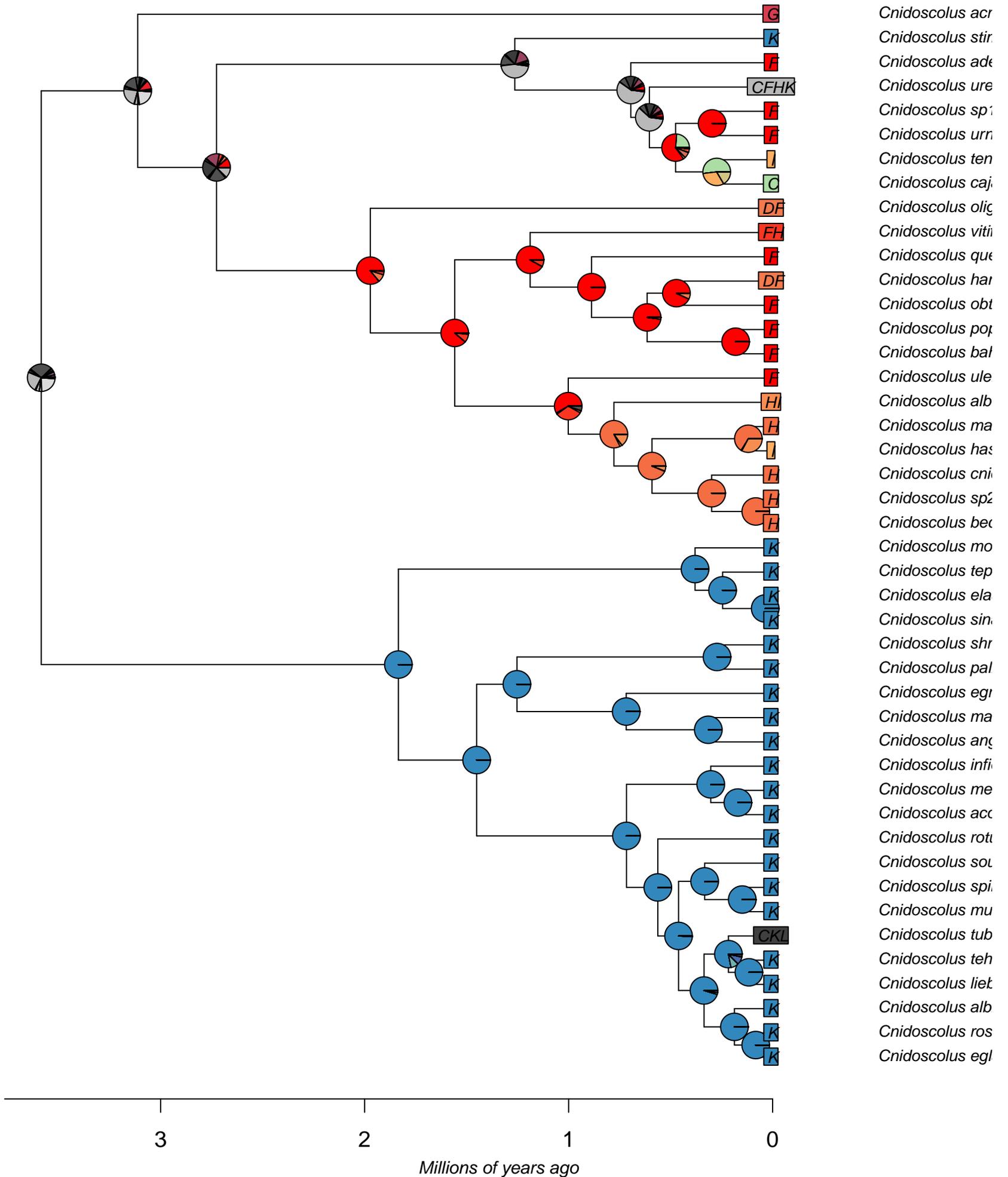
**Cnidoscolus BioGeoBEARS DEC**  
 ancstates: global optim, 4 areas max. d=0.0455; e=0; j=0; LnL=-69.68



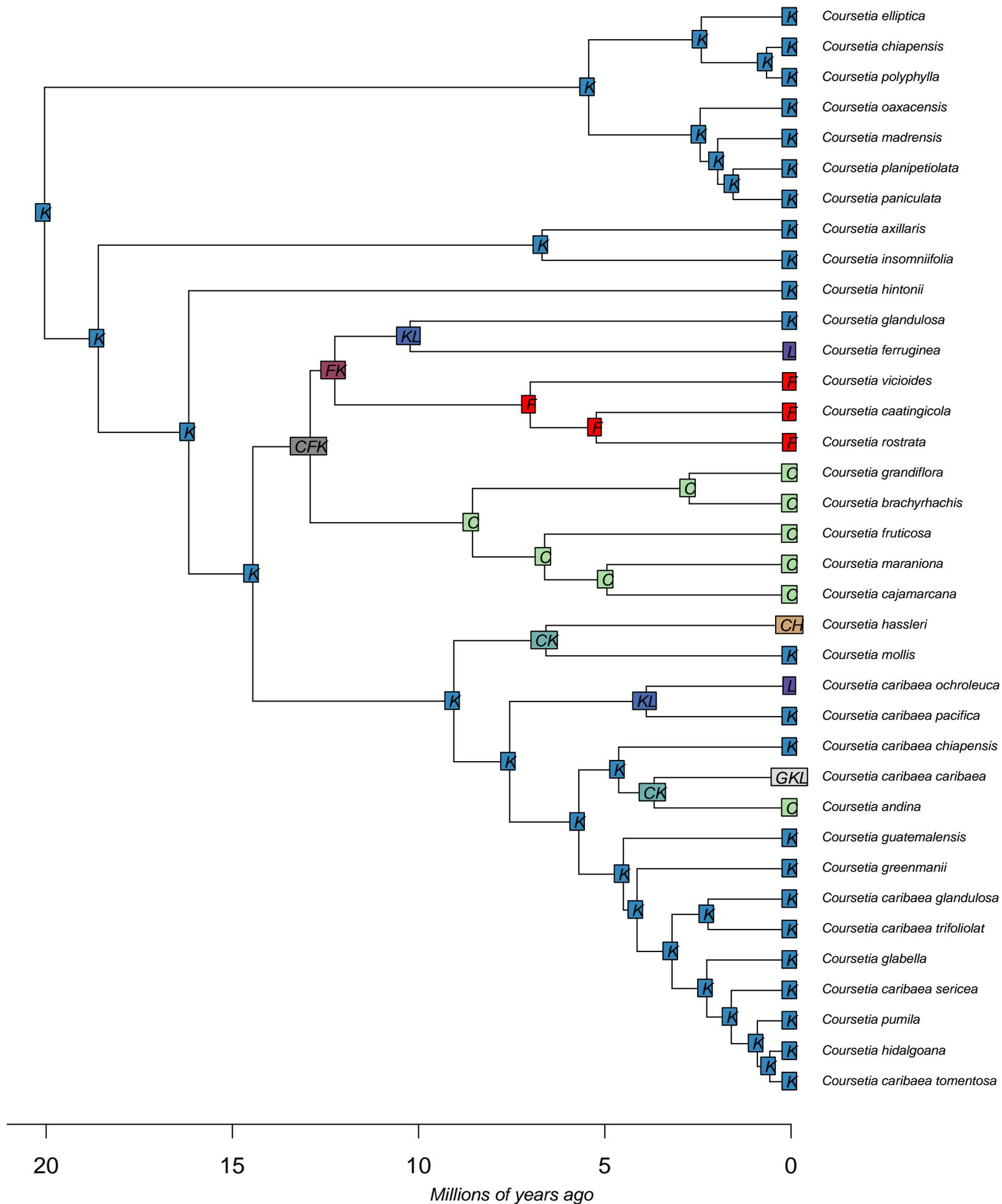
**Cnidoscolus BioGeoBEARS DEC+J**  
 ancstates: global optim, 4 areas max. d=0.0337; e=0; j=0.0068; LnL=-67.49



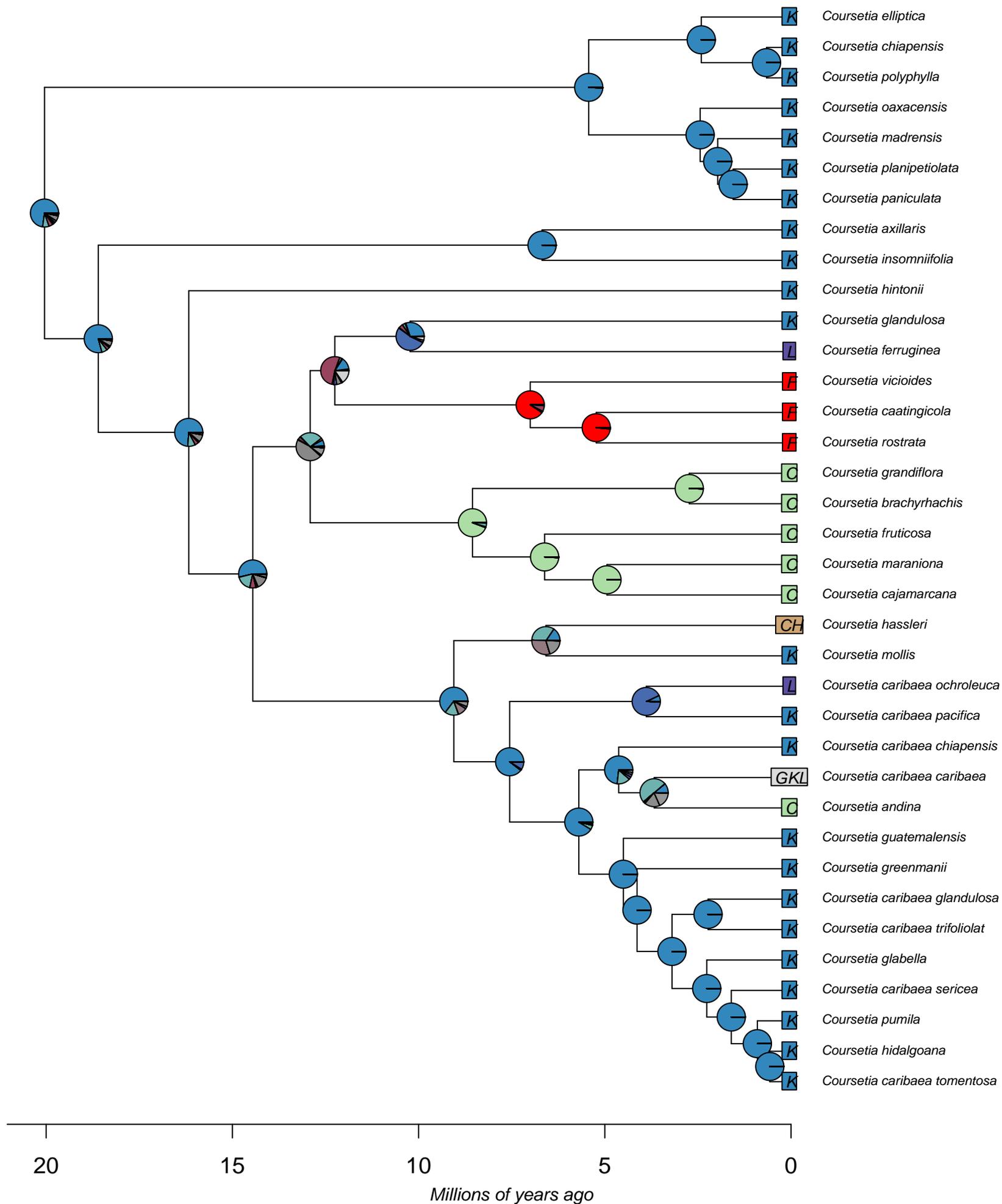
**Cnidoscolus BioGeoBEARS DEC+J**  
 ancstates: global optim, 4 areas max. d=0.0337; e=0; j=0.0068; LnL=-67.49



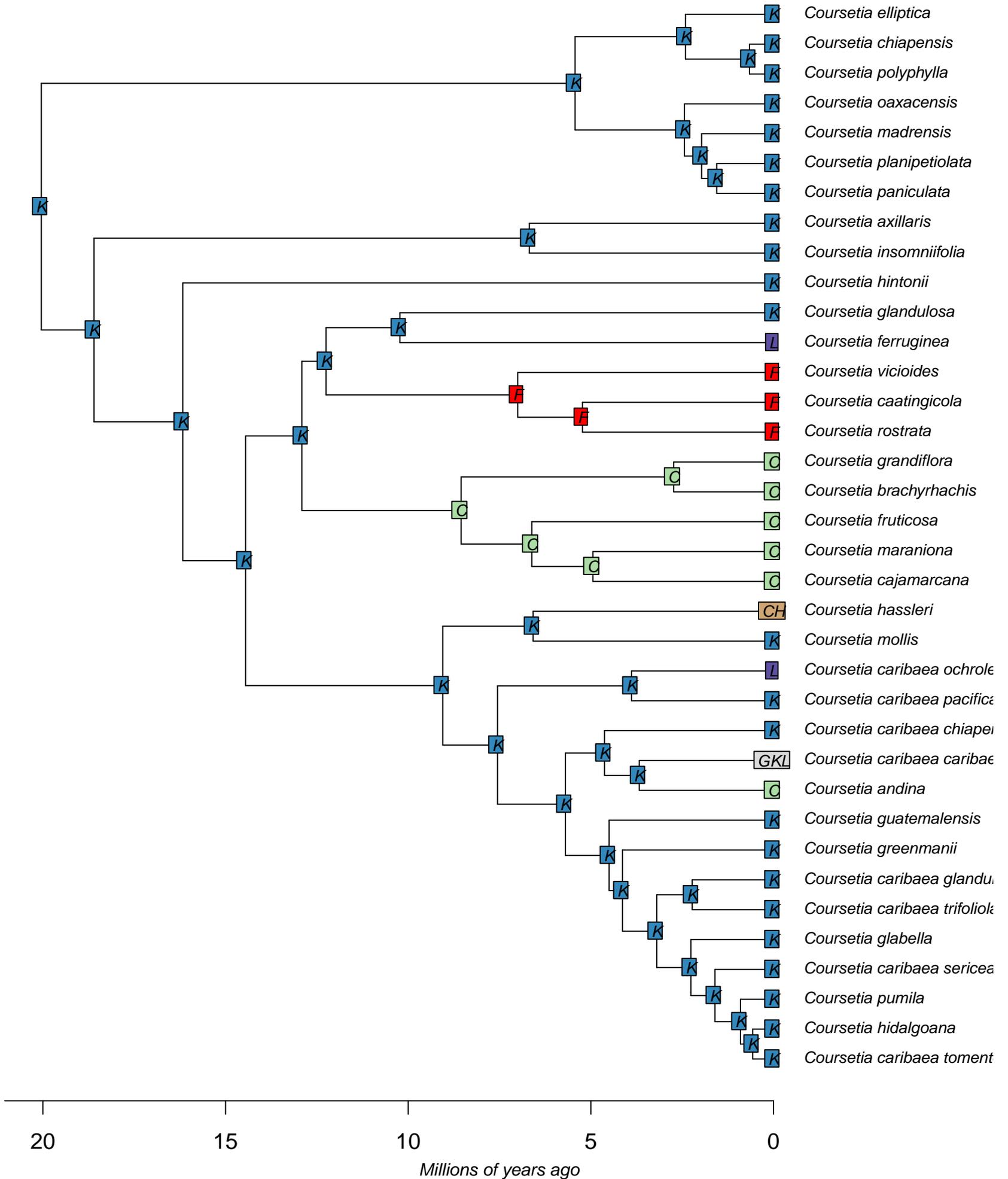
**Coursetia BioGeoBEARS DEC**  
**ancstates: global optim, 3 areas max. d=0.0073; e=0.0069; j=0; LnL=-51.02**



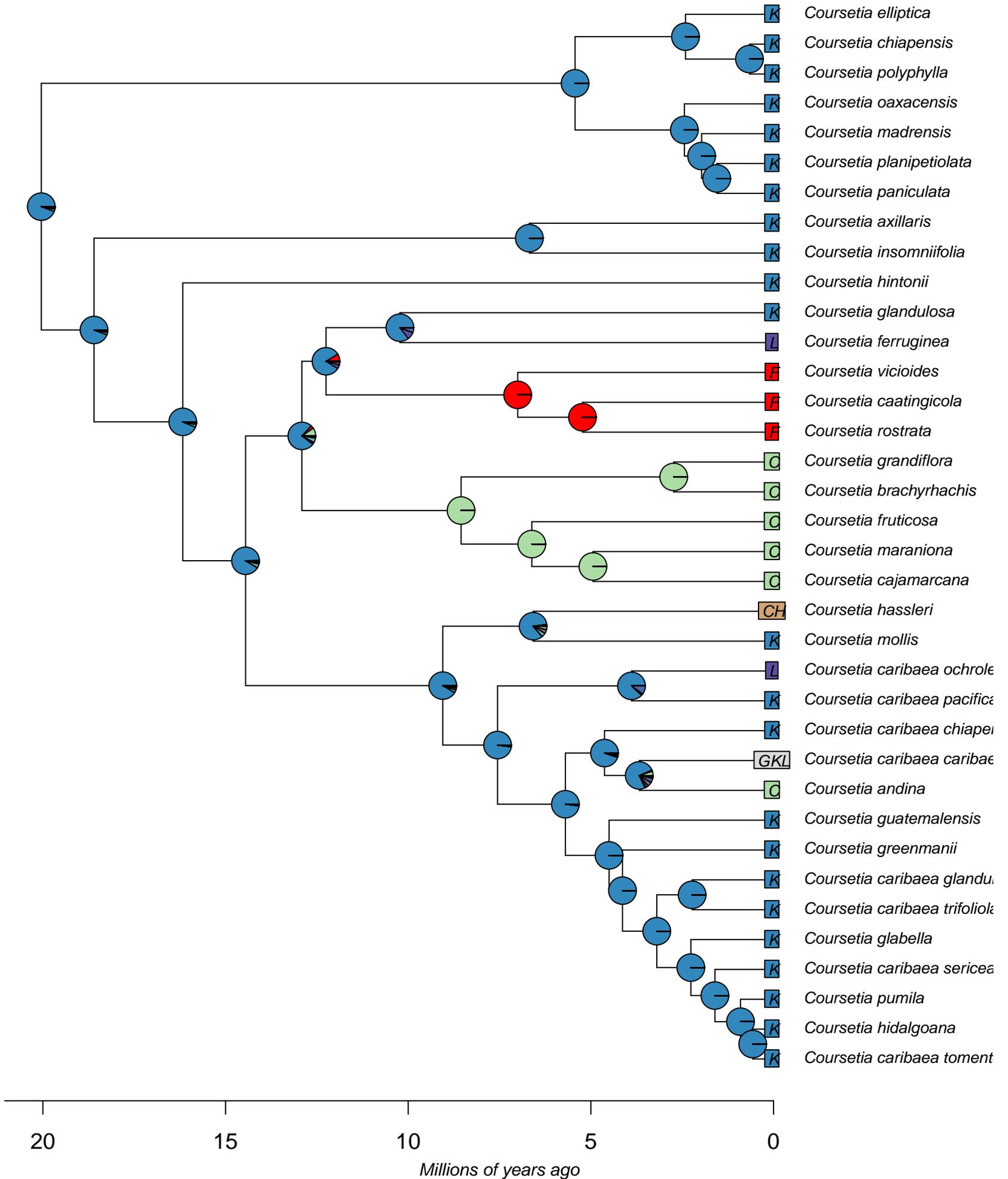
**Coursetia BioGeoBEARS DEC**  
 ancstates: global optim, 3 areas max. d=0.0073; e=0.0069; j=0; LnL=-51.02



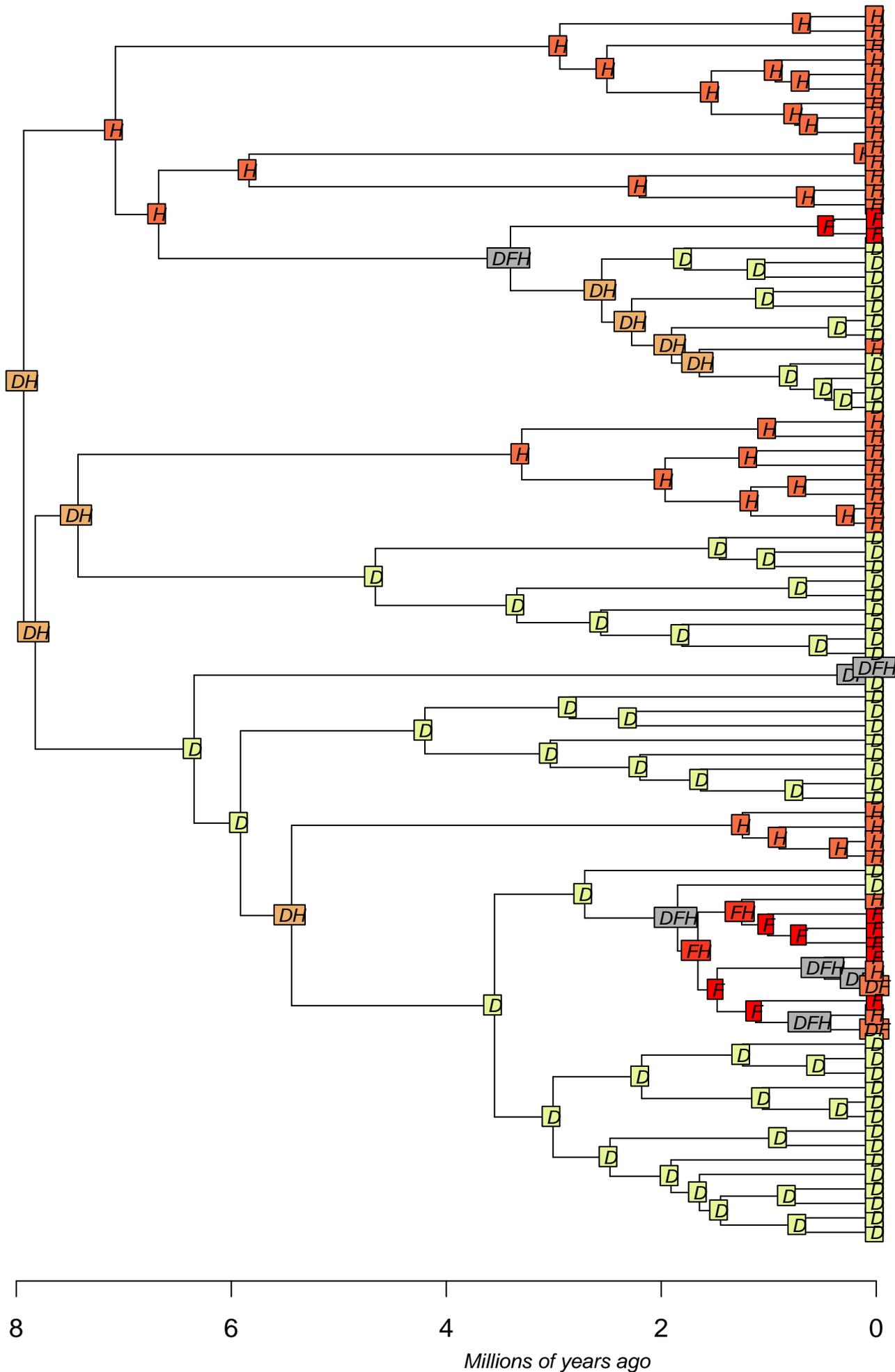
**Coursetia BioGeoBEARS DEC+J**  
 ancstates: global optim, 3 areas max. d=0.0028; e=0; j=0.0204; LnL=-44.11



**Coursetia BioGeoBEARS DEC+J**  
 ancstates: global optim, 3 areas max. d=0.0028; e=0; j=0.0204; LnL=-44.11

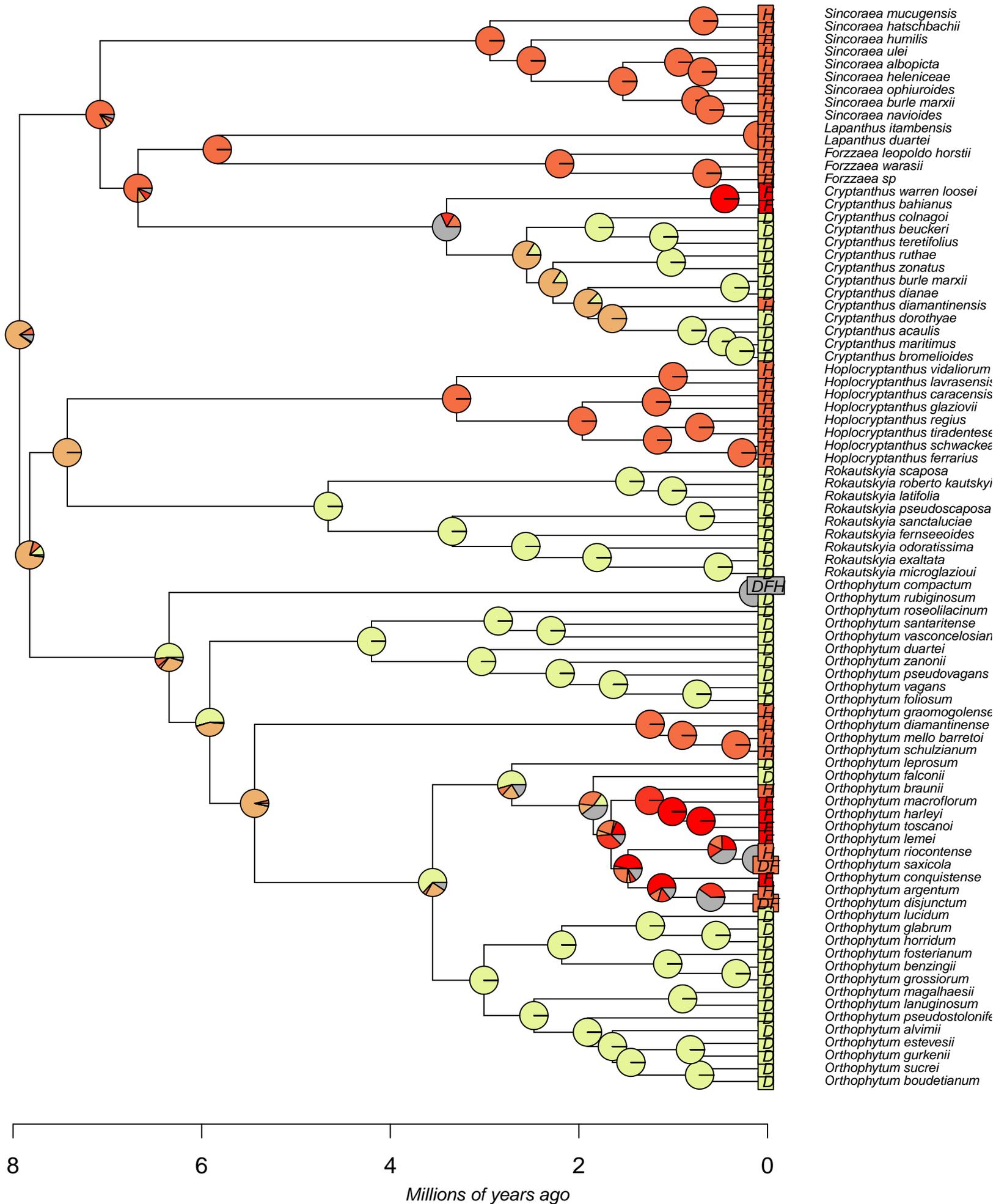


**Cryptanthoids BioGeoBEARS DEC**  
 ancstates: global optim, 3 areas max. d=0.0306; e=0; j=0; LnL=-67.80

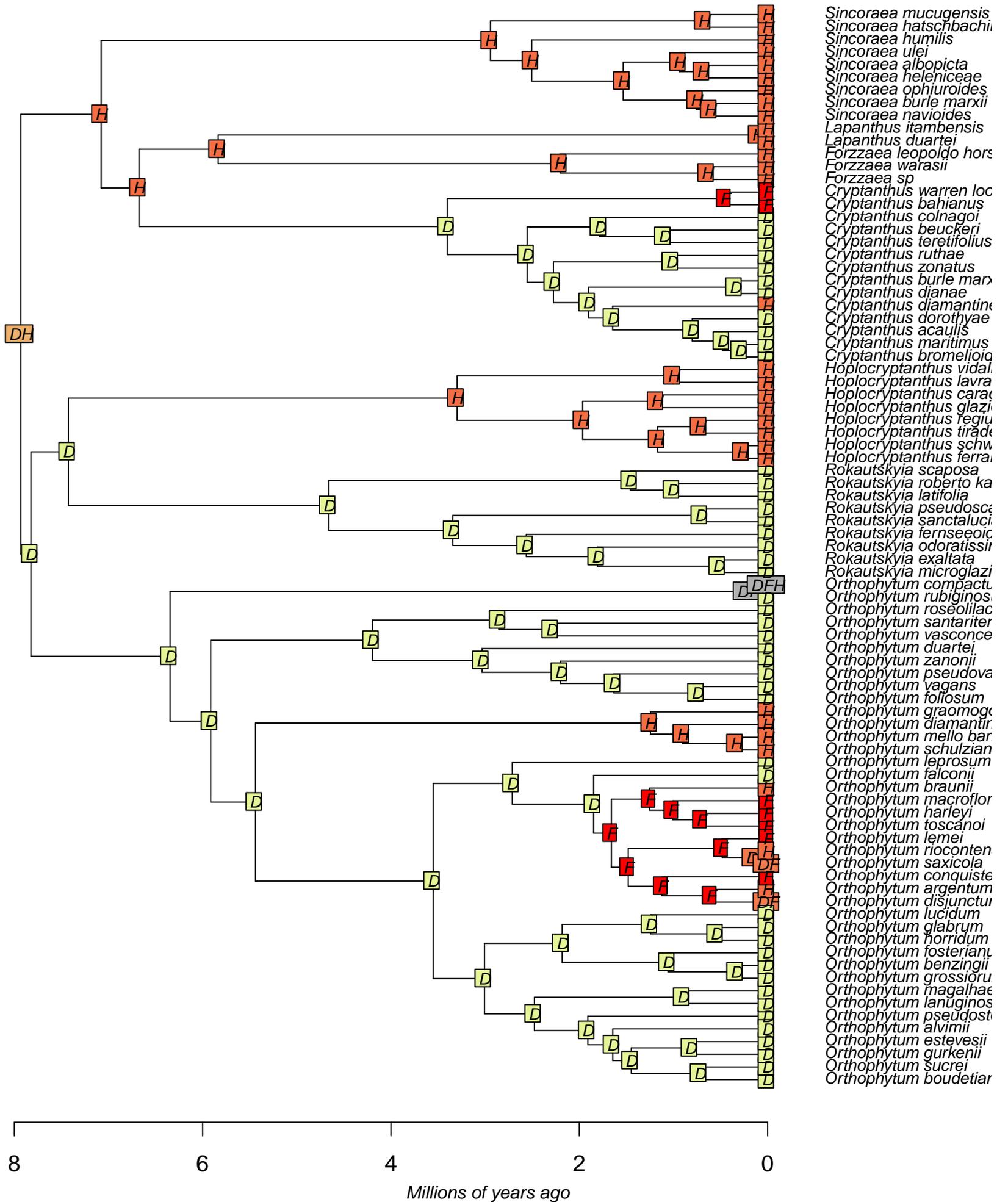


- Sincoraea mucugensis*
- Sincoraea hatschbachii*
- Sincoraea humilis*
- Sincoraea ulei*
- Sincoraea albopicta*
- Sincoraea heleniceae*
- Sincoraea ophiuroides*
- Sincoraea burle marxii*
- Sincoraea navioides*
- Lapanthus itambensis*
- Lapanthus duartei*
- Forzzaea leopoldo horstii*
- Forzzaea warasii*
- Forzzaea sp*
- Cryptanthus warren loosei*
- Cryptanthus bahianus*
- Cryptanthus colnagoi*
- Cryptanthus beuckeri*
- Cryptanthus tereifolius*
- Cryptanthus ruthae*
- Cryptanthus zonatus*
- Cryptanthus burle marxii*
- Cryptanthus dianae*
- Cryptanthus diamantinensis*
- Cryptanthus dorothyae*
- Cryptanthus acaulis*
- Cryptanthus maritimus*
- Cryptanthus bromelioides*
- Hoplocryptanthus vidaliorum*
- Hoplocryptanthus lavrasensis*
- Hoplocryptanthus caracensis*
- Hoplocryptanthus glaziovii*
- Hoplocryptanthus regius*
- Hoplocryptanthus tiradentes*
- Hoplocryptanthus schwackee*
- Hoplocryptanthus ferrarius*
- Rokautskyia scaposa*
- Rokautskyia roberto kautskyi*
- Rokautskyia latifolia*
- Rokautskyia pseudoscaposa*
- Rokautskyia sanctaluciae*
- Rokautskyia fernseeoides*
- Rokautskyia odoratissima*
- Rokautskyia exaltata*
- Rokautskyia microglazioui*
- Orthophytum compactum*
- Orthophytum rubiginosum*
- Orthophytum roseoilacinum*
- Orthophytum santaritense*
- Orthophytum vasconcelosian*
- Orthophytum duartei*
- Orthophytum zanonii*
- Orthophytum pseudovagans*
- Orthophytum vagans*
- Orthophytum foliosum*
- Orthophytum graomogolense*
- Orthophytum diamantinense*
- Orthophytum mello barreto*
- Orthophytum schulzianum*
- Orthophytum leprosum*
- Orthophytum falconii*
- Orthophytum braunii*
- Orthophytum macroflorum*
- Orthophytum harleyi*
- Orthophytum toscanoi*
- Orthophytum lemei*
- Orthophytum riocontense*
- Orthophytum saxicola*
- Orthophytum conquistense*
- Orthophytum argentum*
- Orthophytum disjunctum*
- Orthophytum lucidum*
- Orthophytum glabrum*
- Orthophytum horridum*
- Orthophytum fosterianum*
- Orthophytum benzingii*
- Orthophytum grossiorum*
- Orthophytum magalhaesii*
- Orthophytum lanuginosum*
- Orthophytum pseudostolonife*
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- Orthophytum estevesii*
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- Orthophytum sucrei*
- Orthophytum boudetianum*

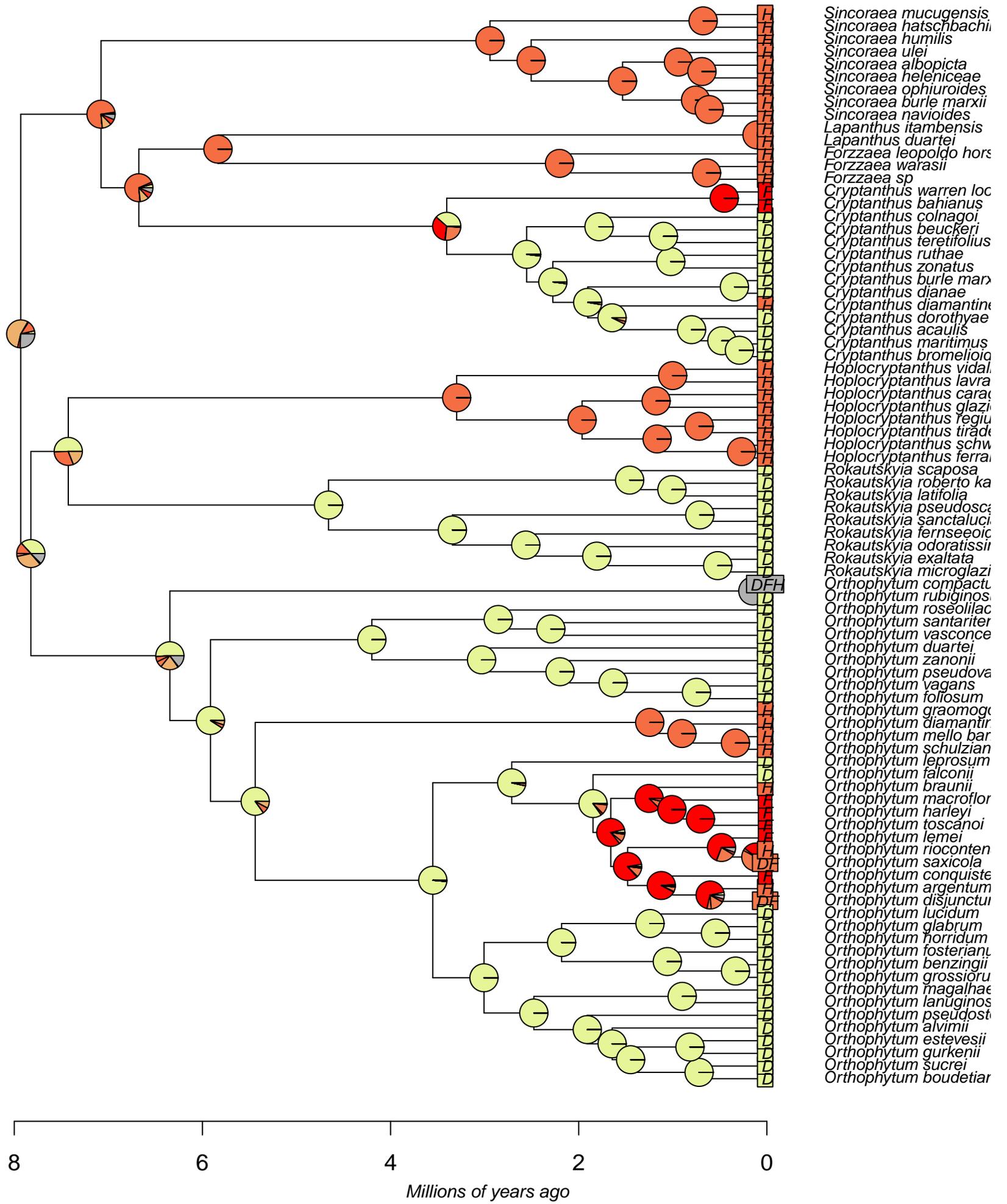
**Cryptanthoids BioGeoBEARS DEC**  
 ancstates: global optim, 3 areas max. d=0.0306; e=0; j=0; LnL=-67.80



Cryptanthoids BioGeoBEARS DEC+J  
 ancstates: global optim, 3 areas max. d=0.0125; e=0; j=0.029; LnL=-60.38

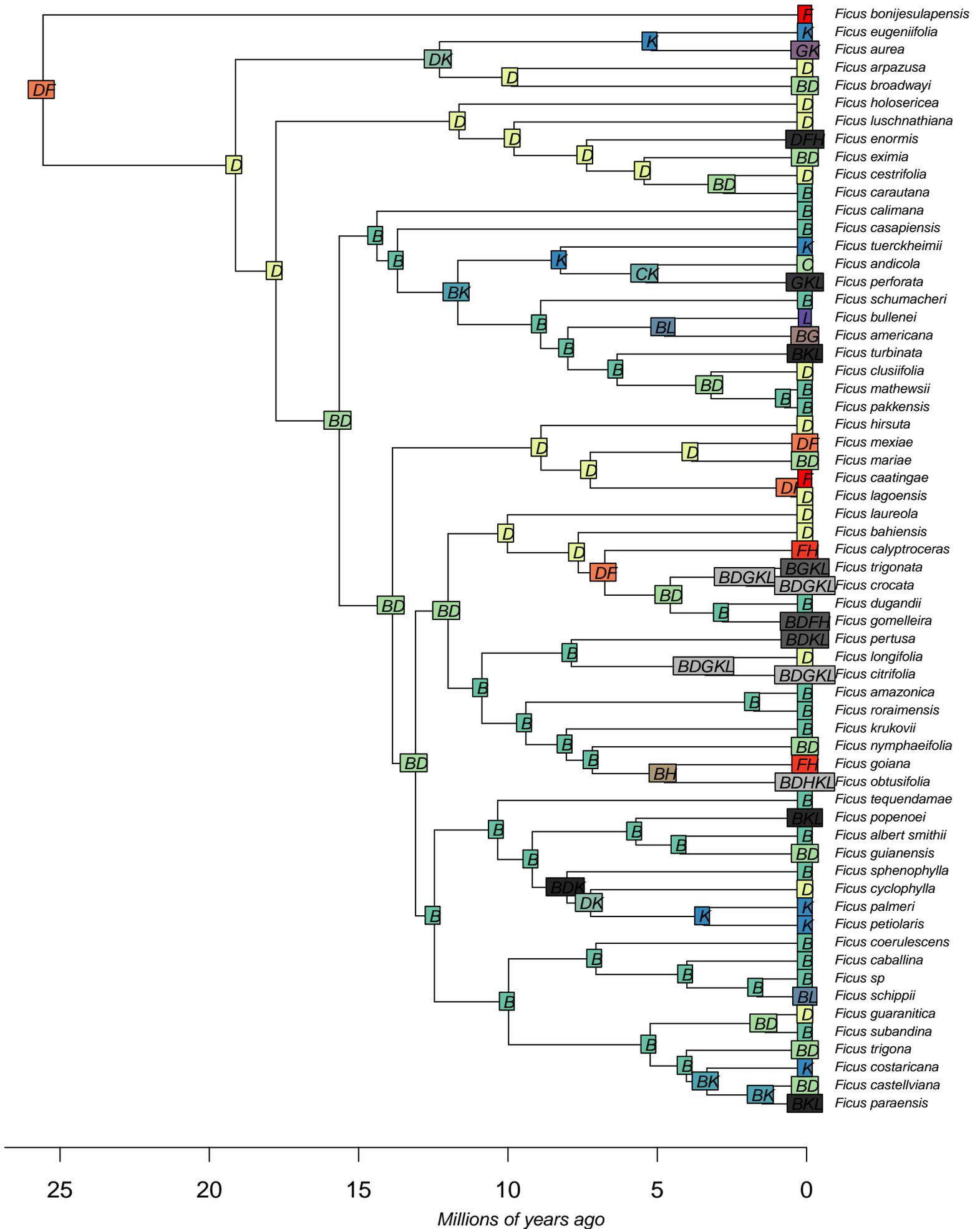


**Cryptanthoids BioGeoBEARS DEC+J**  
 ancstates: global optim, 3 areas max. d=0.0125; e=0; j=0.029; LnL=-60.38

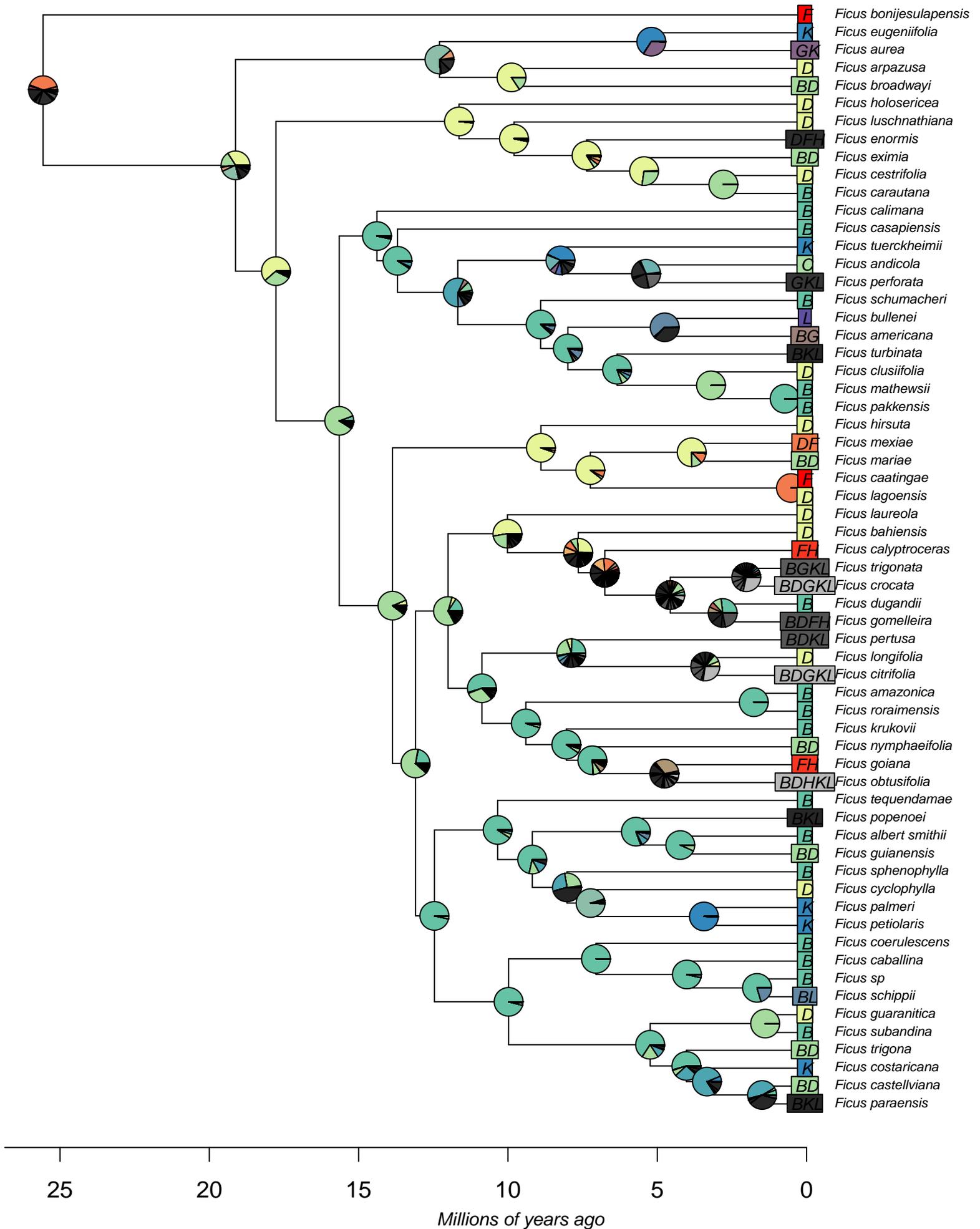


- Sincoraea mucugensis*
- Sincoraea hatschbachii*
- Sincoraea humilis*
- Sincoraea ulei*
- Sincoraea albopicta*
- Sincoraea heleniceae*
- Sincoraea ophiuroides*
- Sincoraea burle marxii*
- Sincoraea navioides*
- Lapanthus itambensis*
- Lapanthus duartei*
- Forzzaea leopoldo hors*
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- Forzzaea sp*
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- Cryptanthus colnagoi*
- Cryptanthus beuckeri*
- Cryptanthus teretifolius*
- Cryptanthus ruthae*
- Cryptanthus zonatus*
- Cryptanthus burle marxii*
- Cryptanthus dianae*
- Cryptanthus diamantini*
- Cryptanthus dorothyae*
- Cryptanthus acaulis*
- Cryptanthus maritimus*
- Cryptanthus bromelioioides*
- Hoplocryptanthus vidali*
- Hoplocryptanthus caracasensis*
- Hoplocryptanthus glazii*
- Hoplocryptanthus teguensis*
- Hoplocryptanthus tiradentes*
- Hoplocryptanthus schwartzii*
- Hoplocryptanthus ferrugineus*
- Rokautskyia scaposa*
- Rokautskyia roberto karlingii*
- Rokautskyia latifolia*
- Rokautskyia pseudoscabra*
- Rokautskyia sanctaluciae*
- Rokautskyia fernseeoides*
- Rokautskyia odoratissima*
- Rokautskyia exaltata*
- Rokautskyia microglazii*
- Orthophytum compactum*
- Orthophytum rubiginosum*
- Orthophytum roseolilac*
- Orthophytum santariter*
- Orthophytum vasconcelosii*
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- Orthophytum zanonii*
- Orthophytum pseudovava*
- Orthophytum vagans*
- Orthophytum foliosum*
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- Orthophytum diamantini*
- Orthophytum mello barbosae*
- Orthophytum schulzianum*
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- Orthophytum braunii*
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- Orthophytum riocontense*
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- Orthophytum argentum*
- Orthophytum disjunctum*
- Orthophytum lucidum*
- Orthophytum glabrum*
- Orthophytum horridum*
- Orthophytum fosterianum*
- Orthophytum benzingii*
- Orthophytum grossiorum*
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- Orthophytum lanuginosum*
- Orthophytum pseudostellatum*
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- Orthophytum sucrei*
- Orthophytum boudeitii*

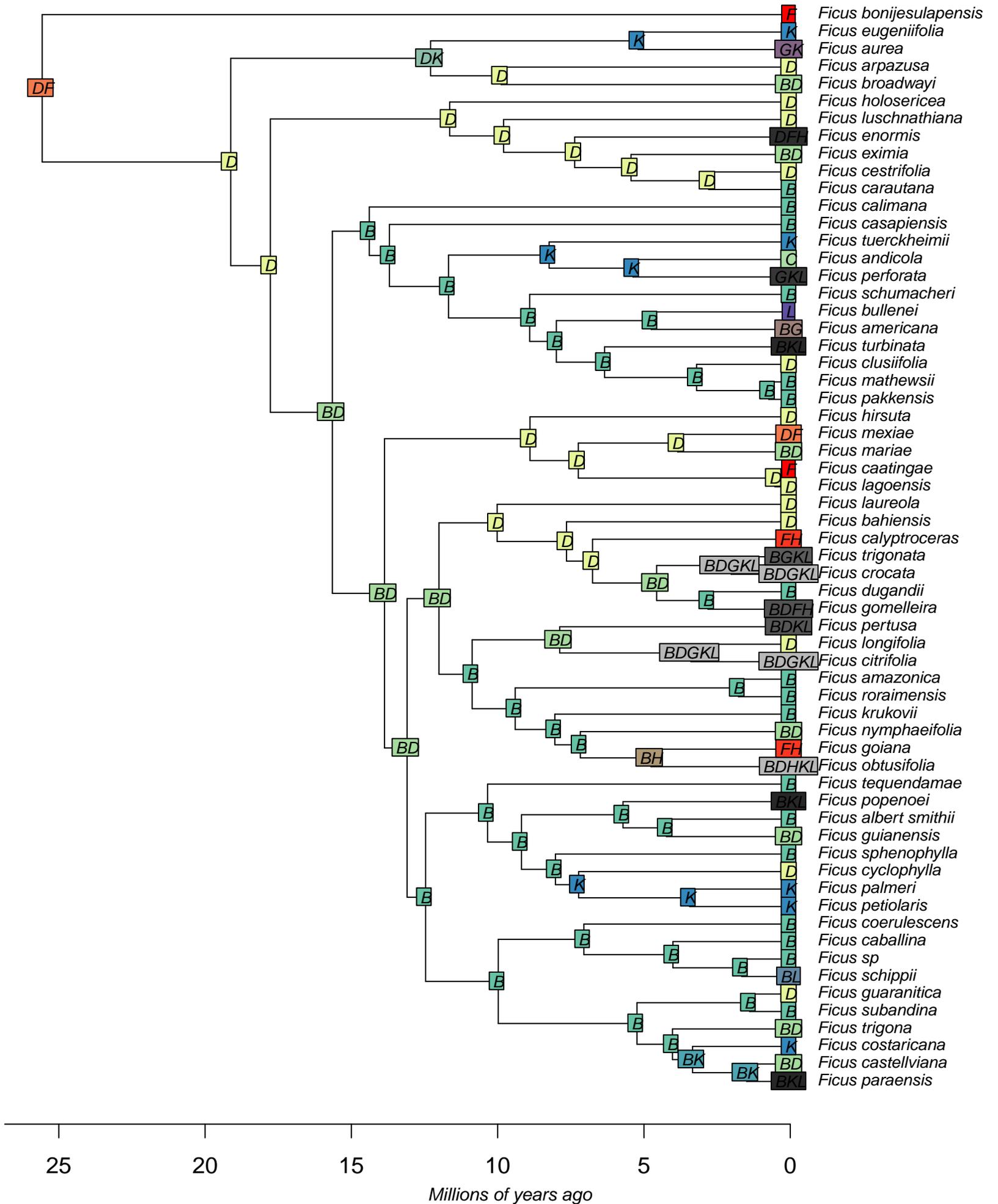
Ficus BioGeoBEARS DEC  
 ancstates: global optim, 5 areas max. d=0.0136; e=5e-04; j=0; LnL=-225.11



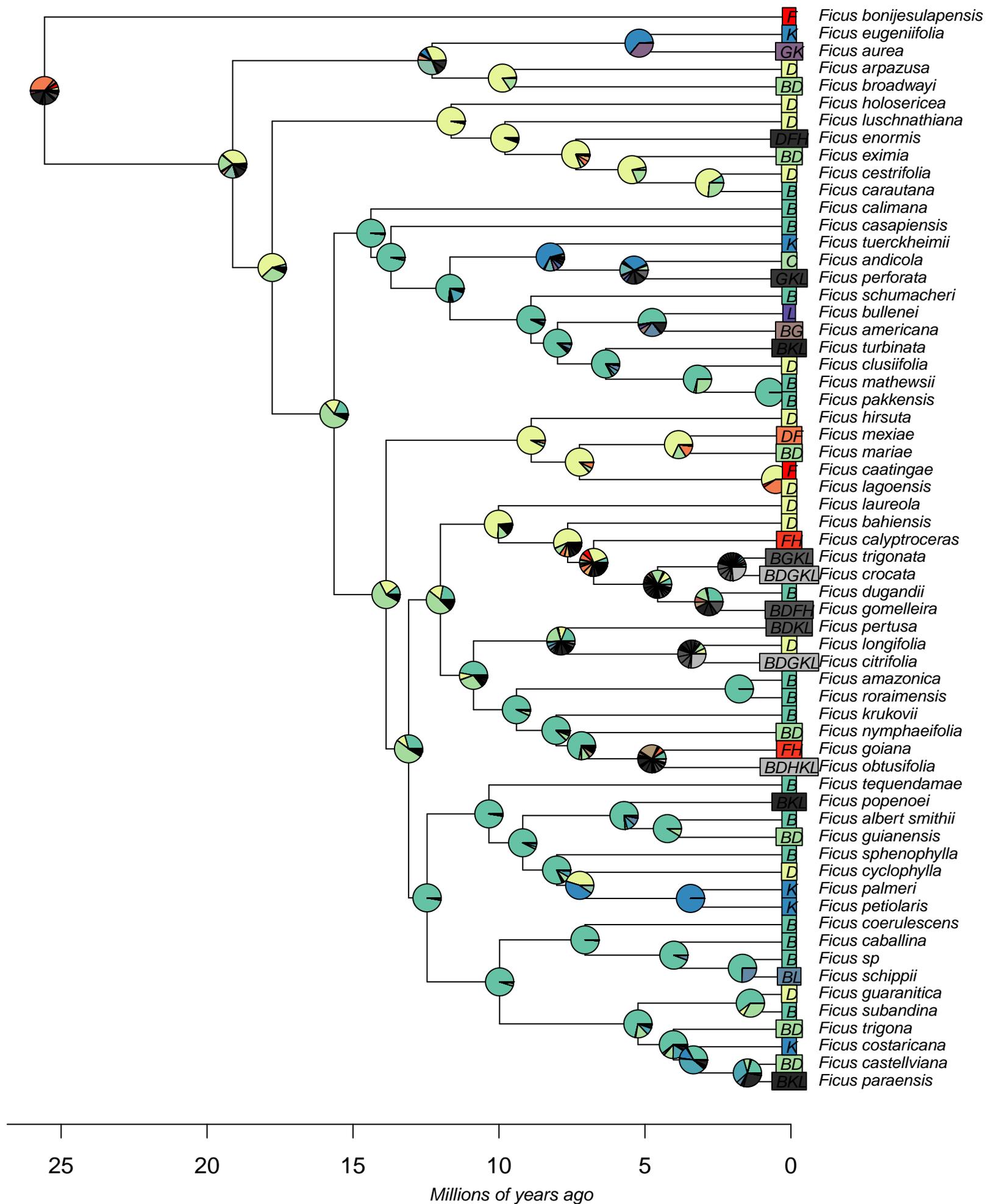
**Ficus BioGeoBEARS DEC**  
 ancstates: global optim, 5 areas max. d=0.0136; e=5e-04; j=0; LnL=-225.11



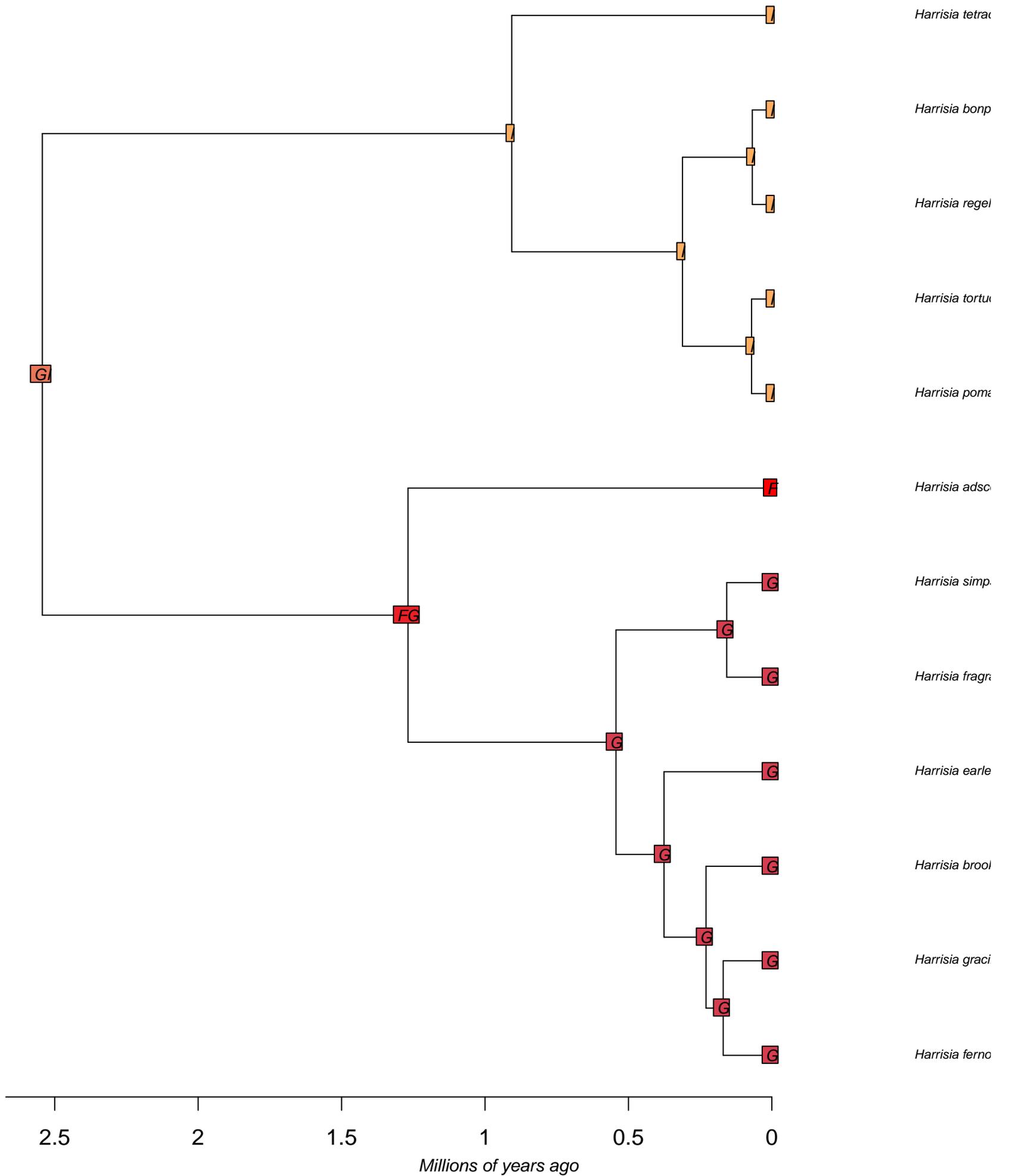
Ficus BioGeoBEARS DEC+J  
 ancstates: global optim, 5 areas max. d=0.012; e=0; j=0.0216; LnL=-218.86



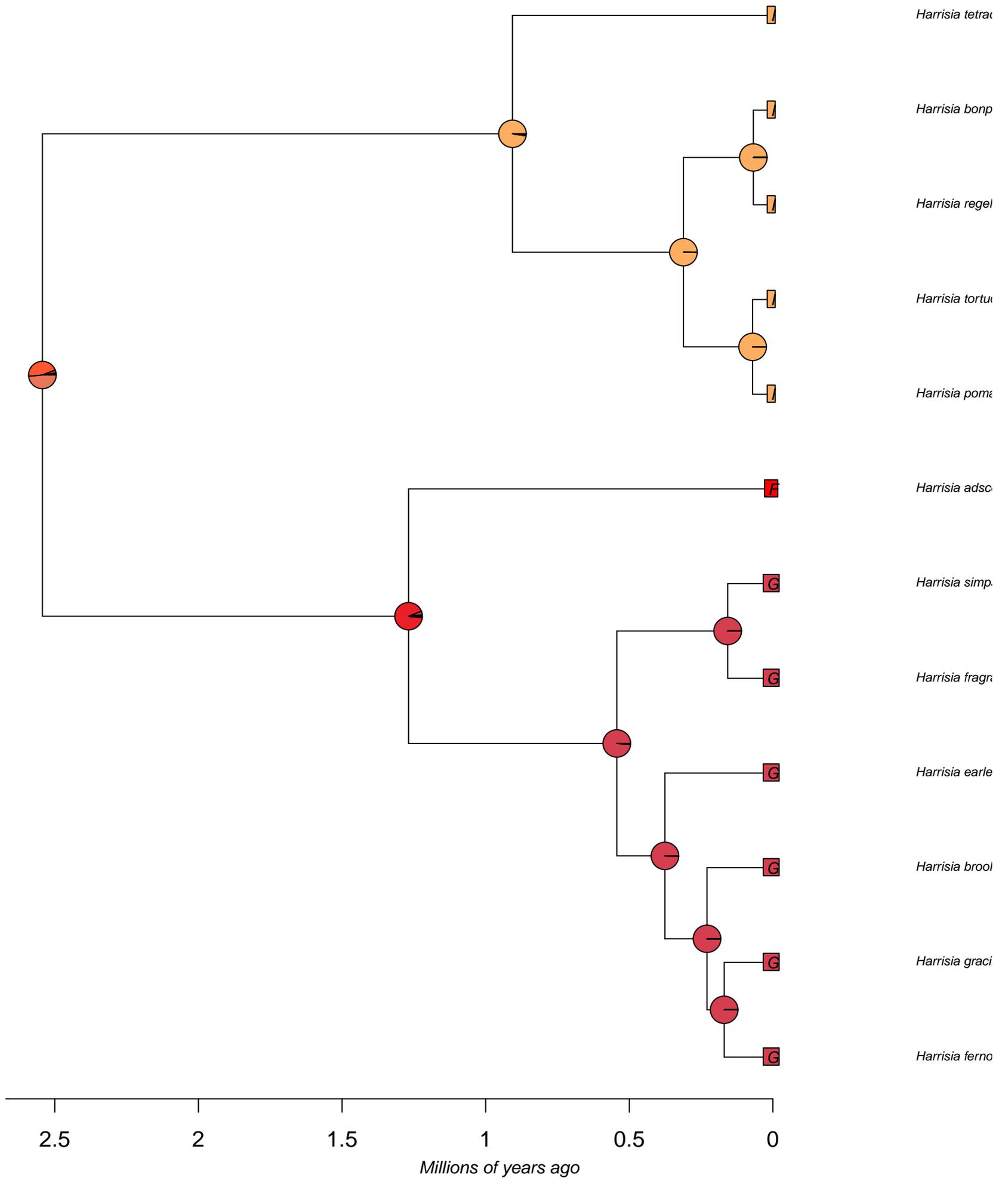
Ficus BioGeoBEARS DEC+J  
 ancstates: global optim, 5 areas max. d=0.012; e=0; j=0.0216; LnL=-218.86



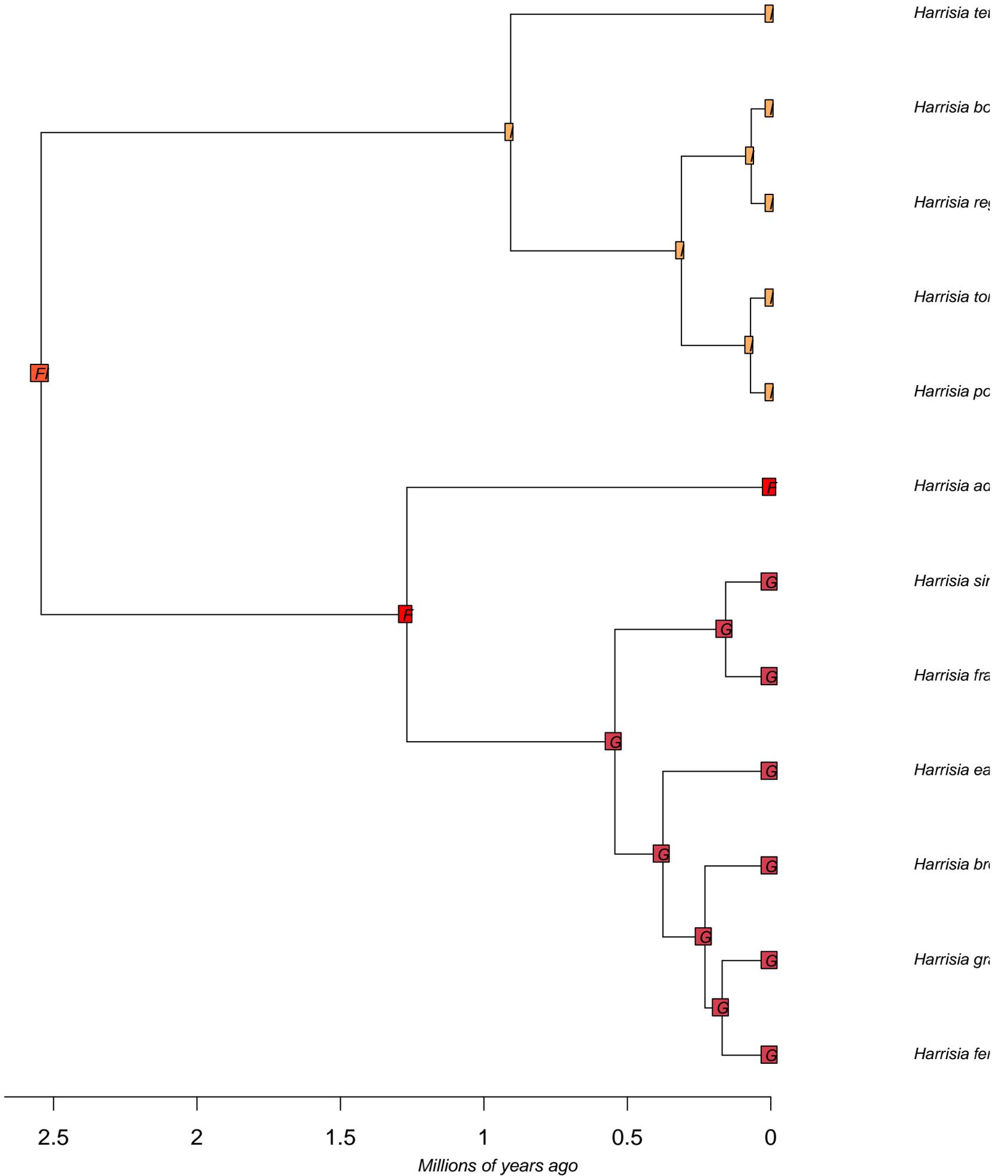
Harrisia BioGeoBEARS DEC  
ancstates: global optim, 2 areas max. d=0.0622; e=0.0267; j=0; LnL=-6.46



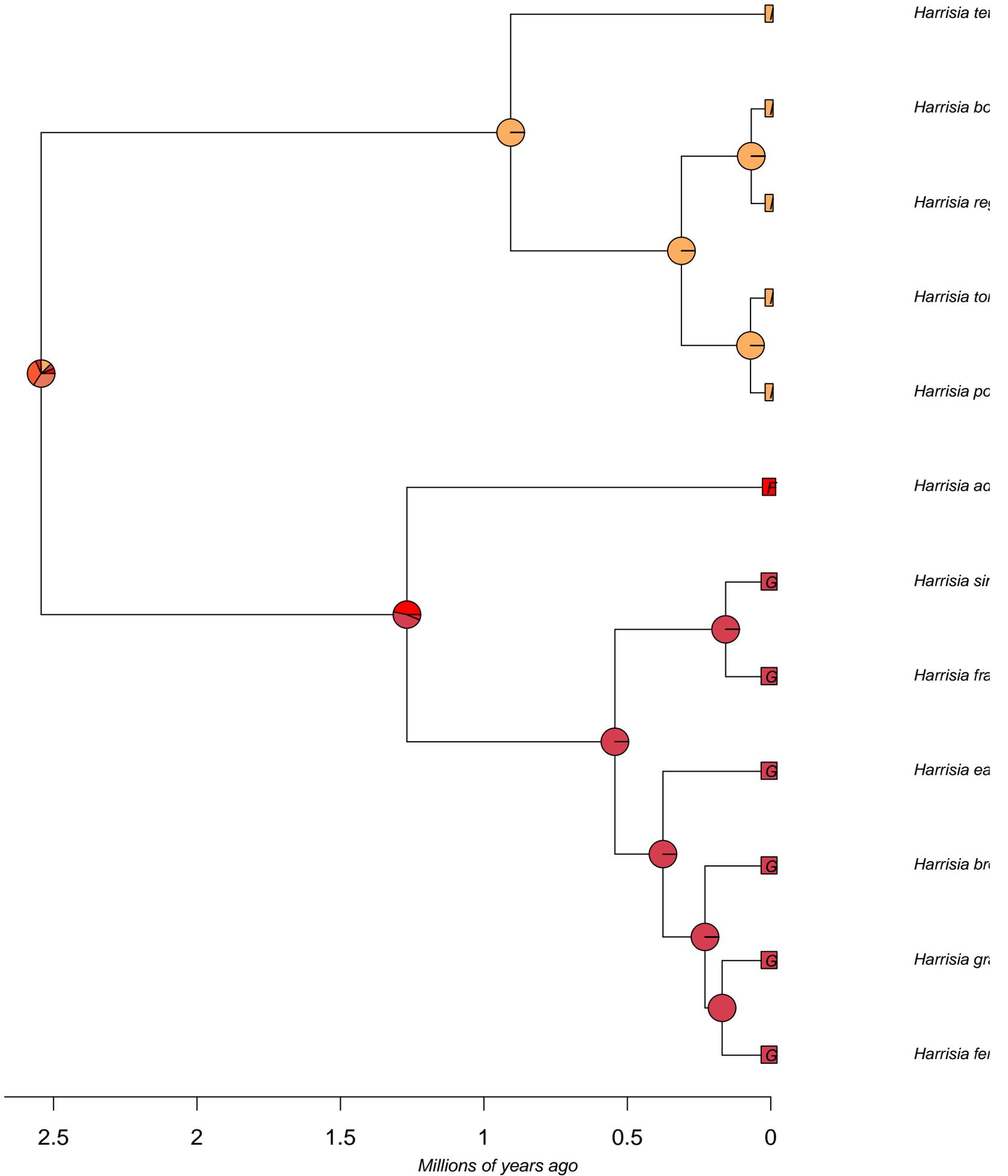
Harrisia BioGeoBEARS DEC  
ancstates: global optim, 2 areas max. d=0.0622; e=0.0267; j=0; LnL=-6.46



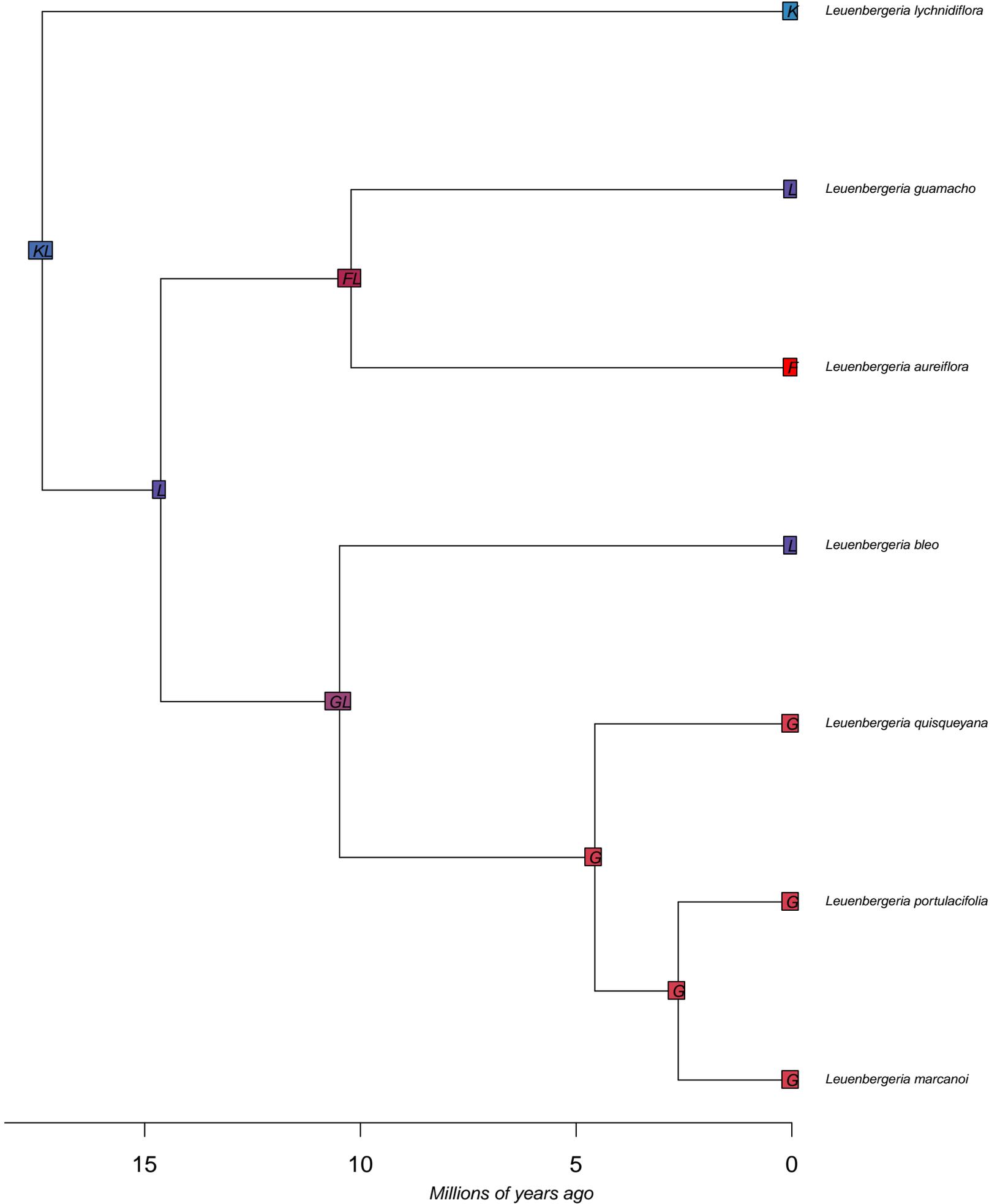
Harrisia BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0; e=0; j=0.0343; LnL=-5.39



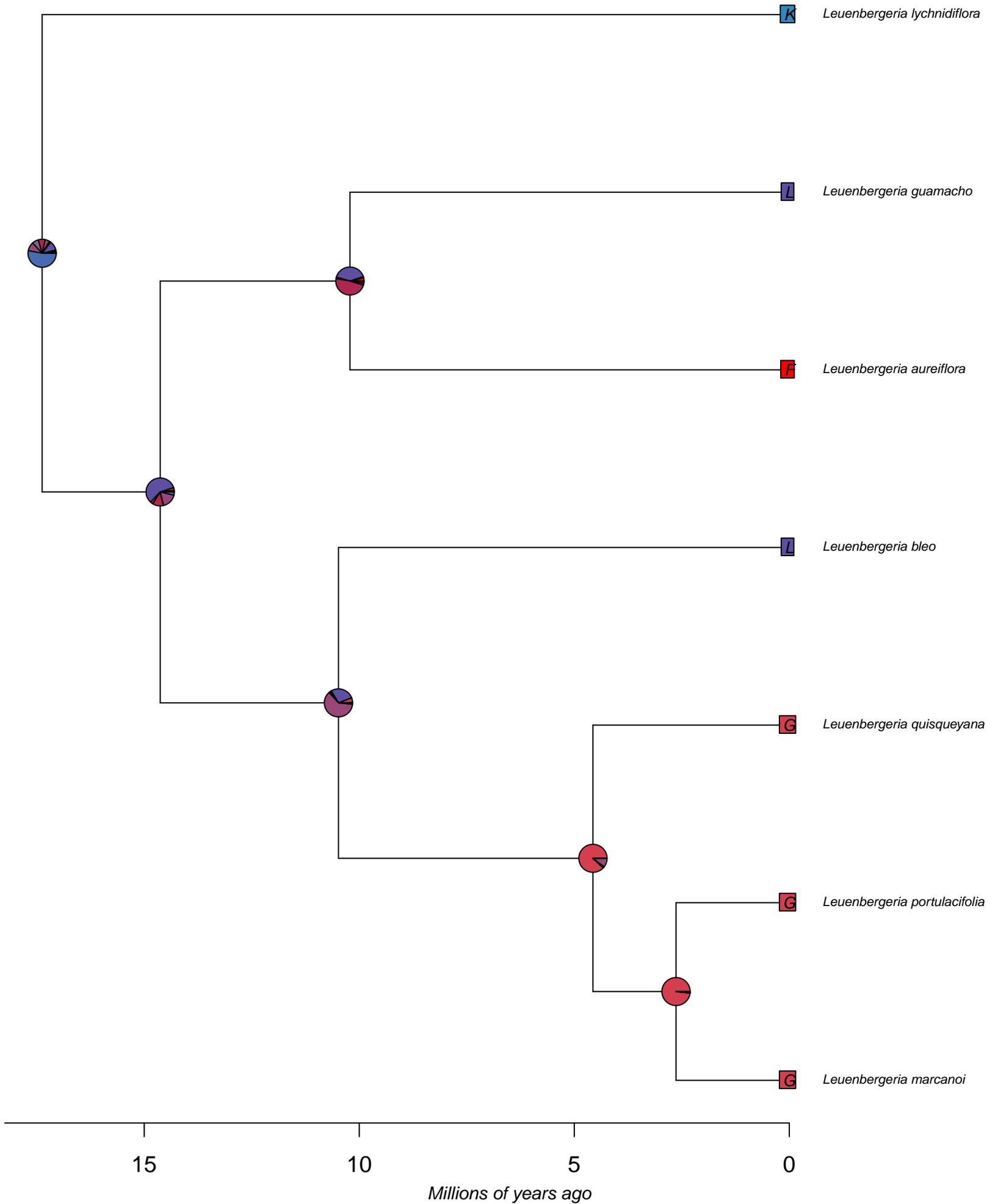
Harrisia BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0; e=0; j=0.0343; LnL=-5.39



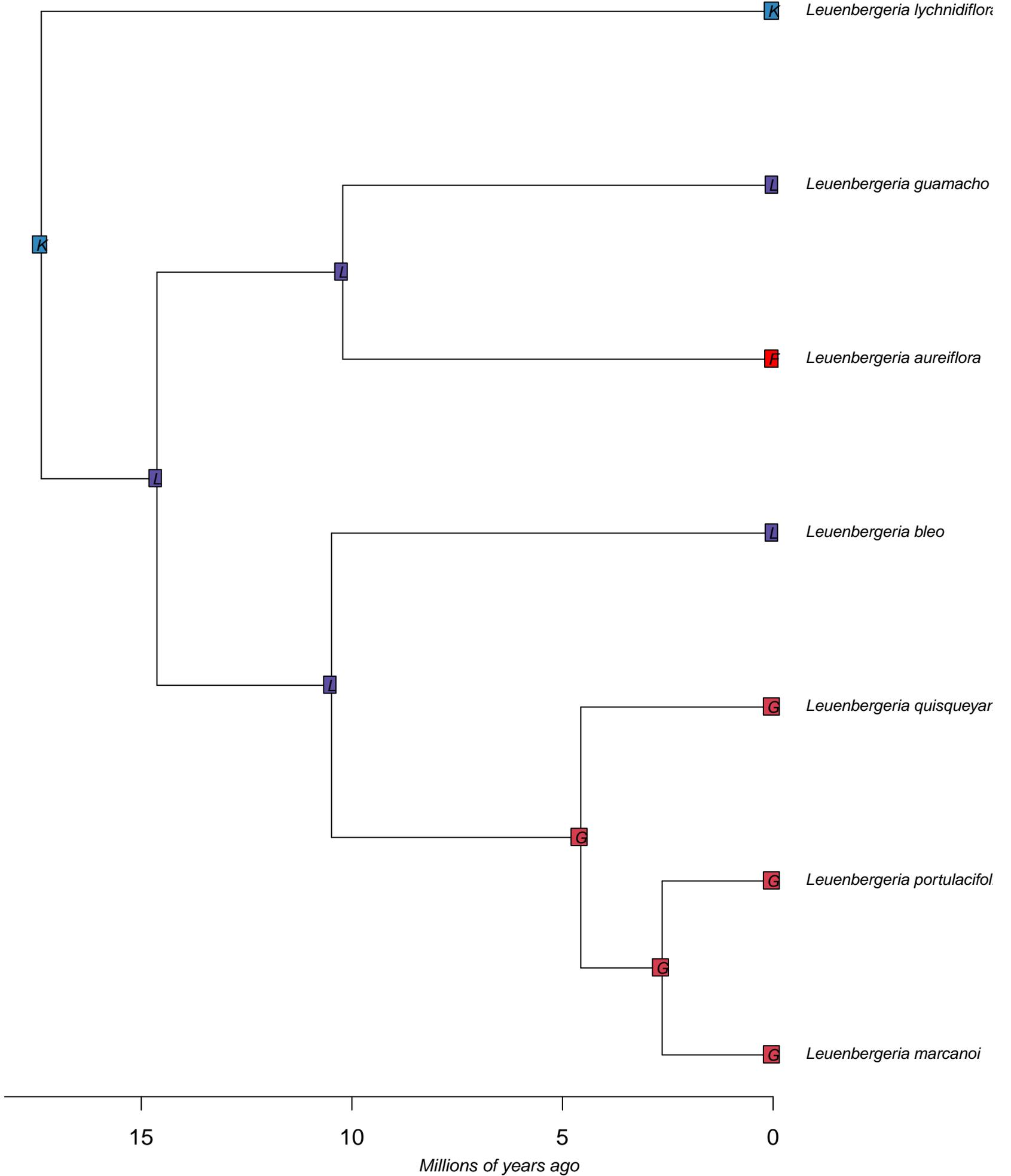
Luenbergeria BioGeoBEARS DEC  
ancstates: global optim, 2 areas max. d=0.0145; e=0.0251; j=0; LnL=-12.36



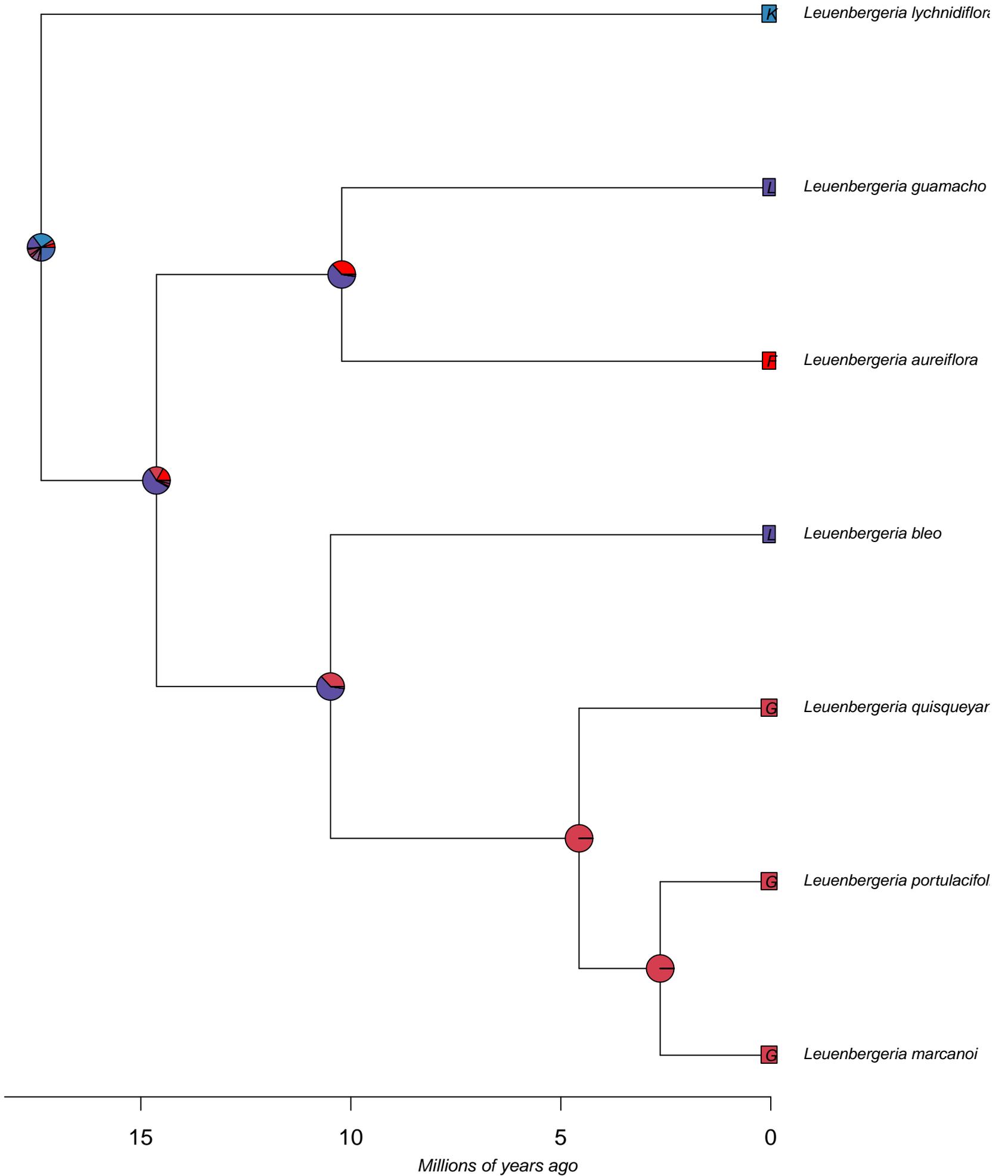
Luenbergeria BioGeoBEARS DEC  
ancstates: global optim, 2 areas max. d=0.0145; e=0.0251; j=0; LnL=-12.36



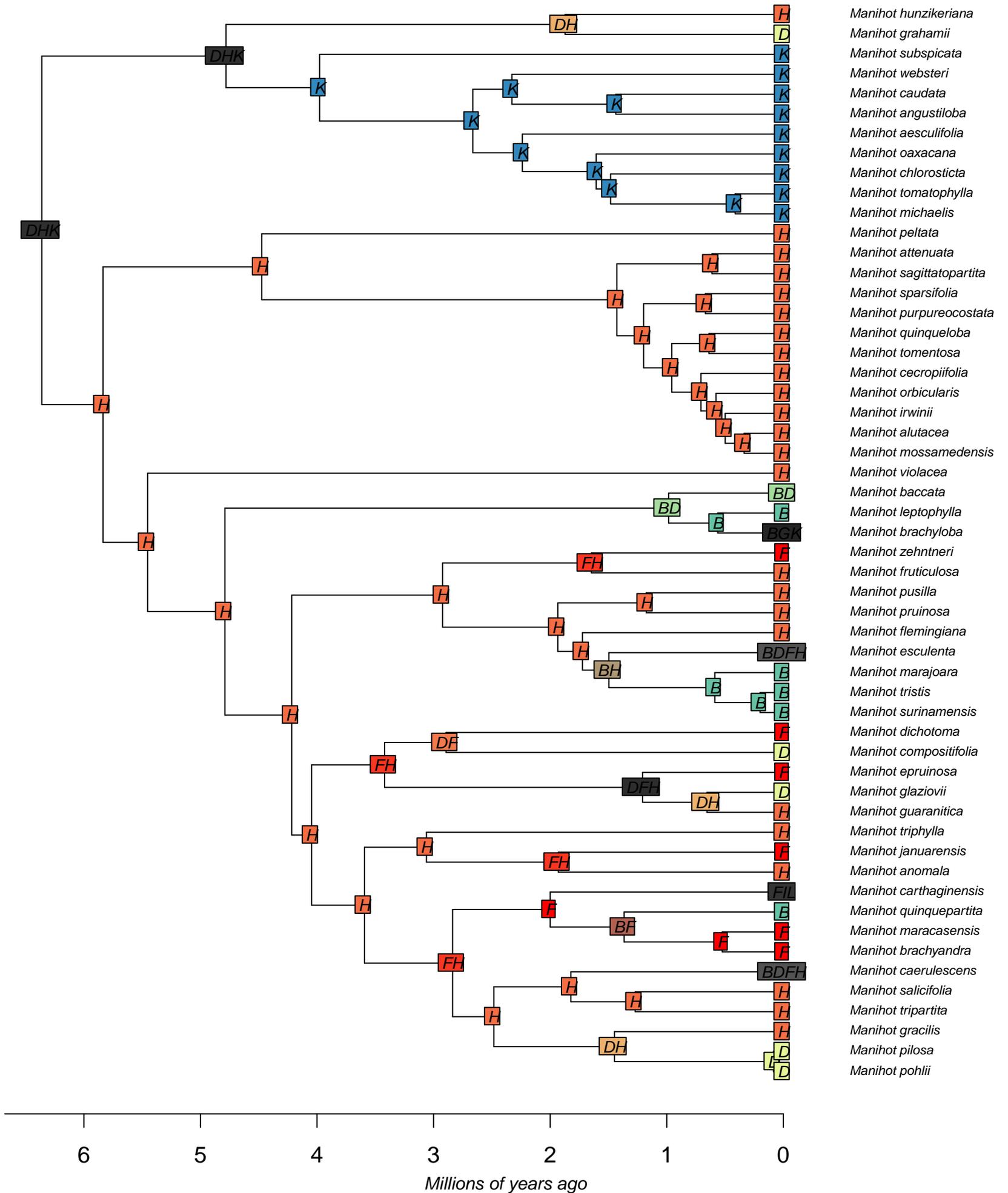
Luenbergeria BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0; e=0; j=0.1947; LnL=-7.40



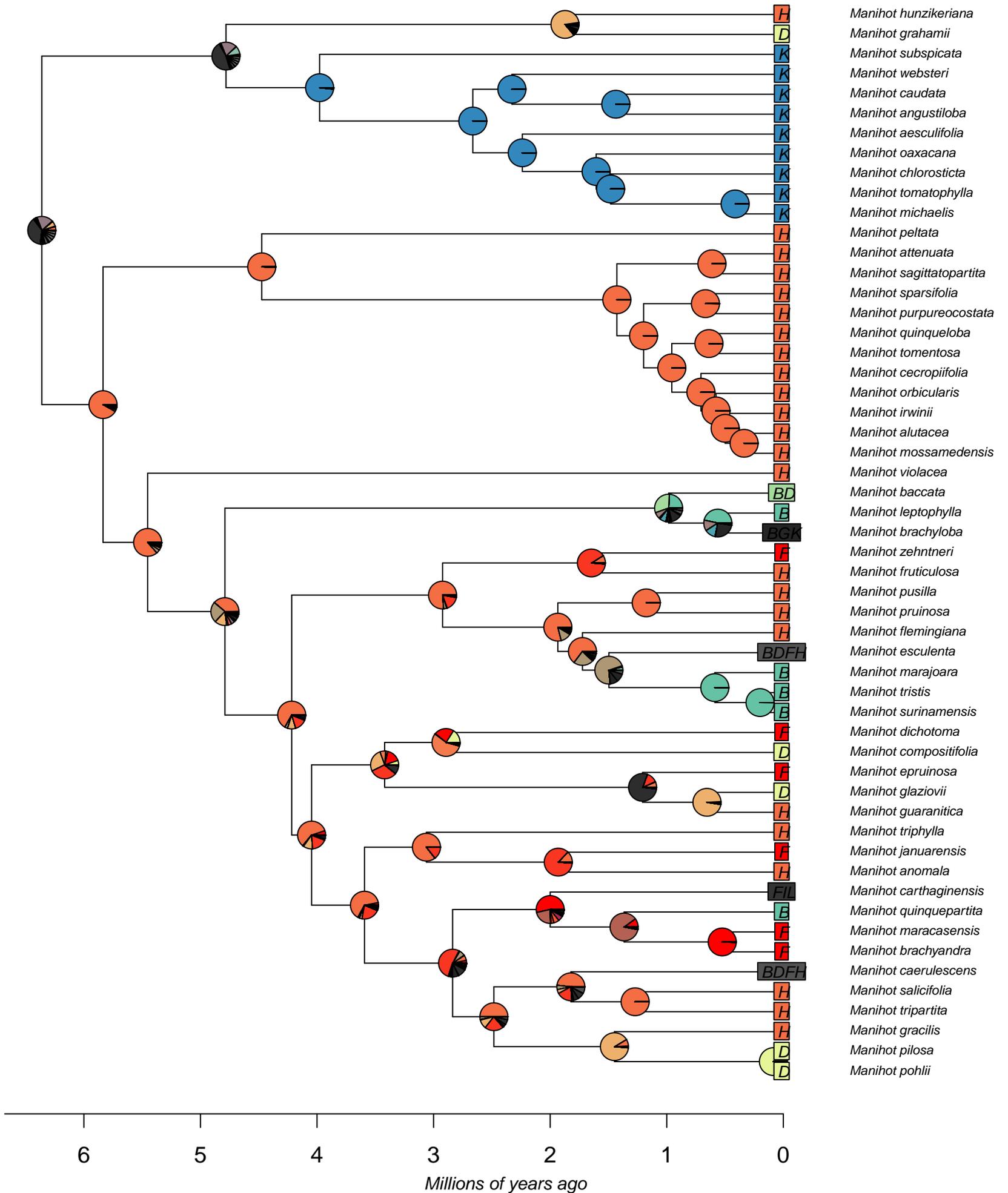
Luenbergeria BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0; e=0; j=0.1947; LnL=-7.40



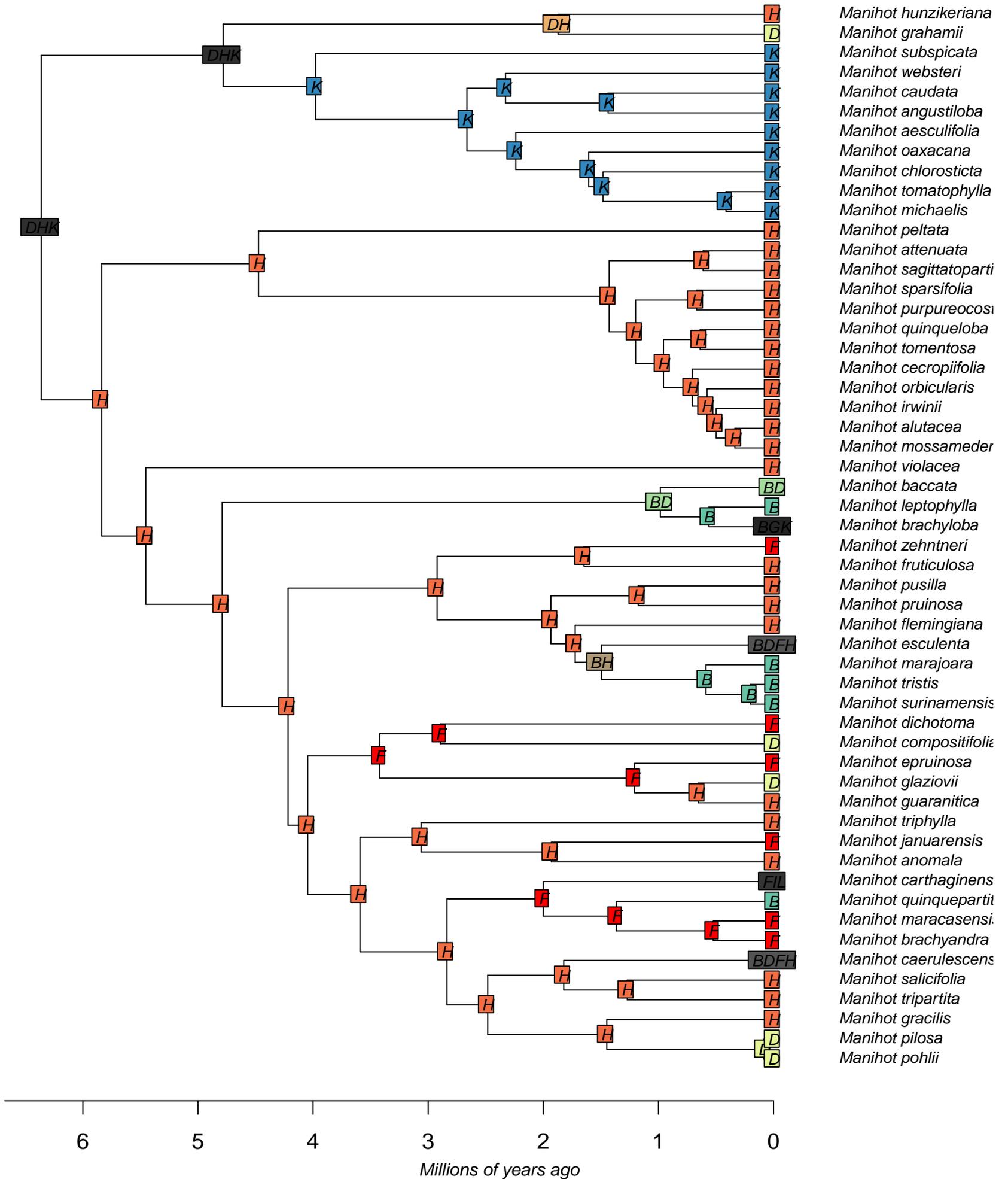
Manihot BioGeoBEARS DEC  
 ancstates: global optim, 4 areas max. d=0.0236; e=0.0196; j=0; LnL=-109.69



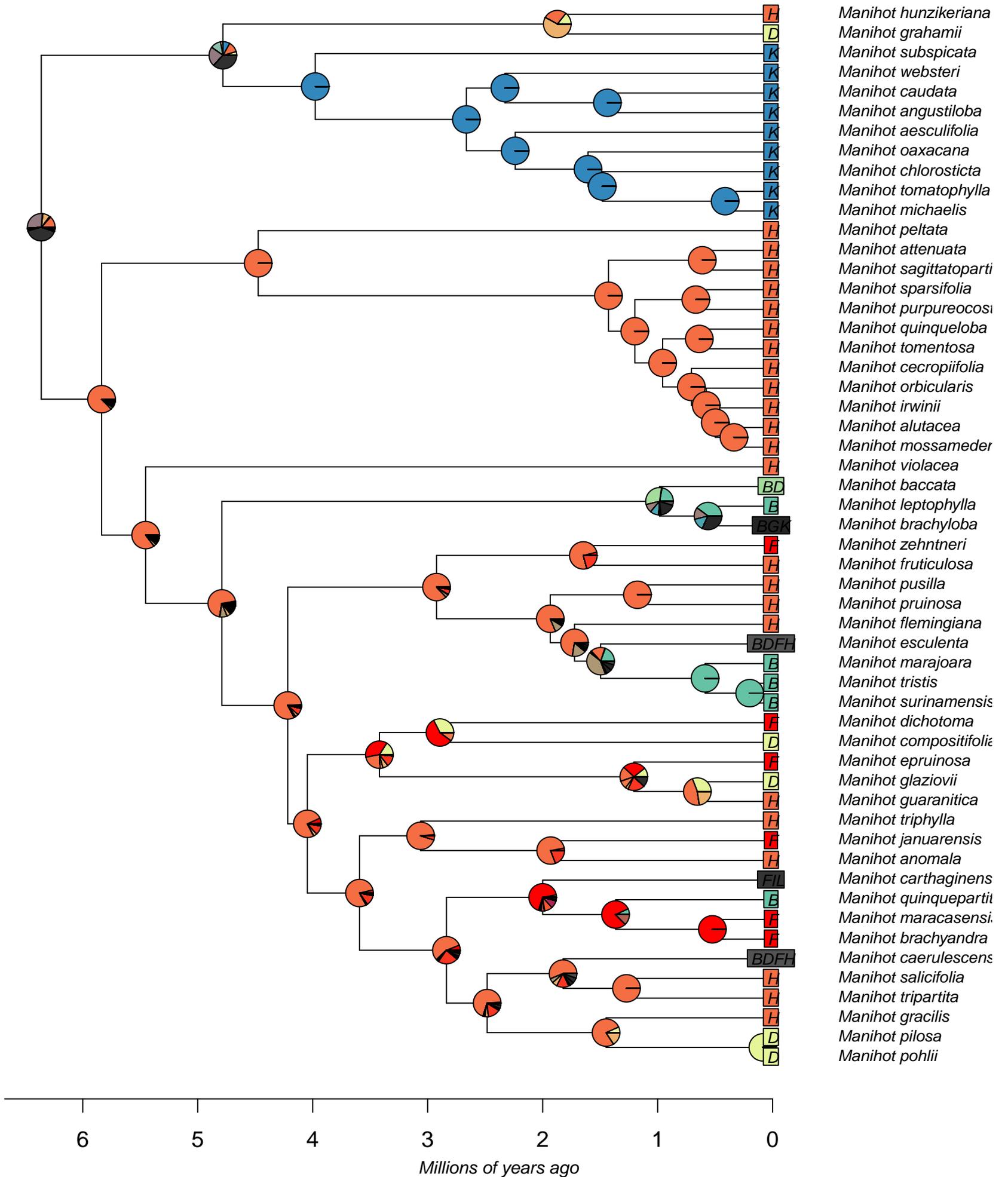
Manihot BioGeoBEARS DEC  
 ancstates: global optim, 4 areas max. d=0.0236; e=0.0196; j=0; LnL=-109.69



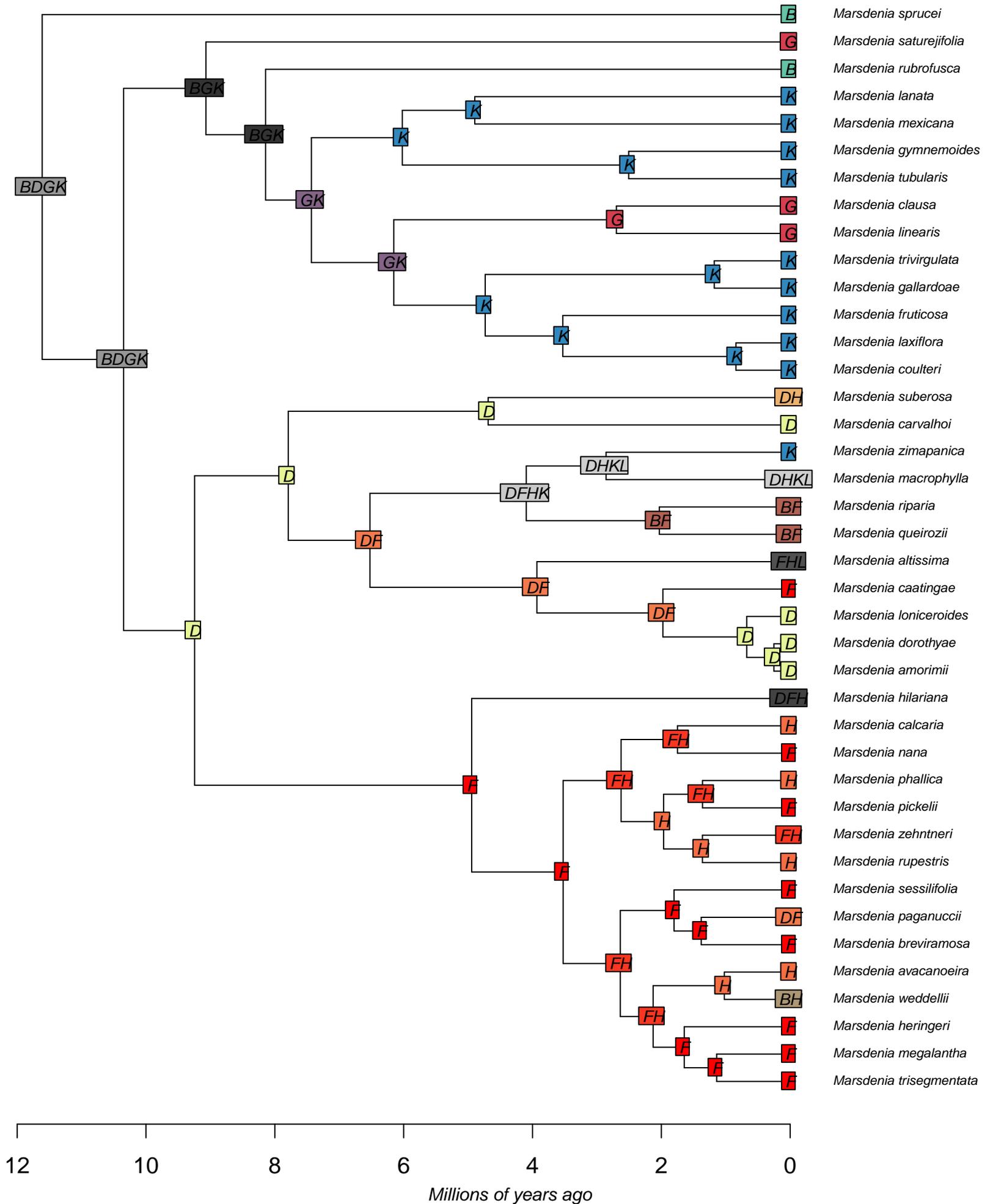
Manihot BioGeoBEARS DEC+J  
 ancstates: global optim, 4 areas max. d=0.0152; e=0; j=0.0178; LnL=-103.47



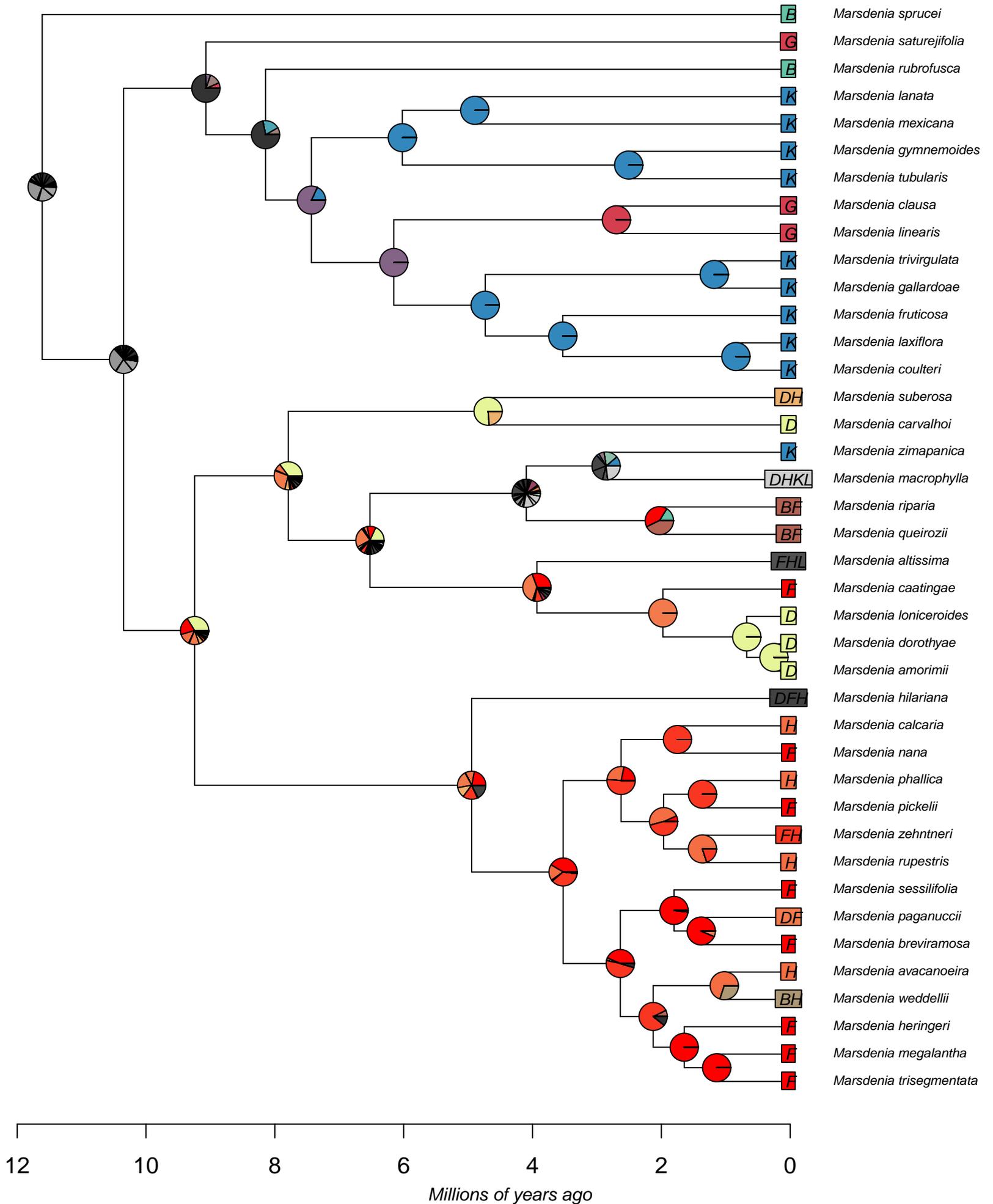
Manihot BioGeoBEARS DEC+J  
 ancstates: global optim, 4 areas max. d=0.0152; e=0; j=0.0178; LnL=-103.47



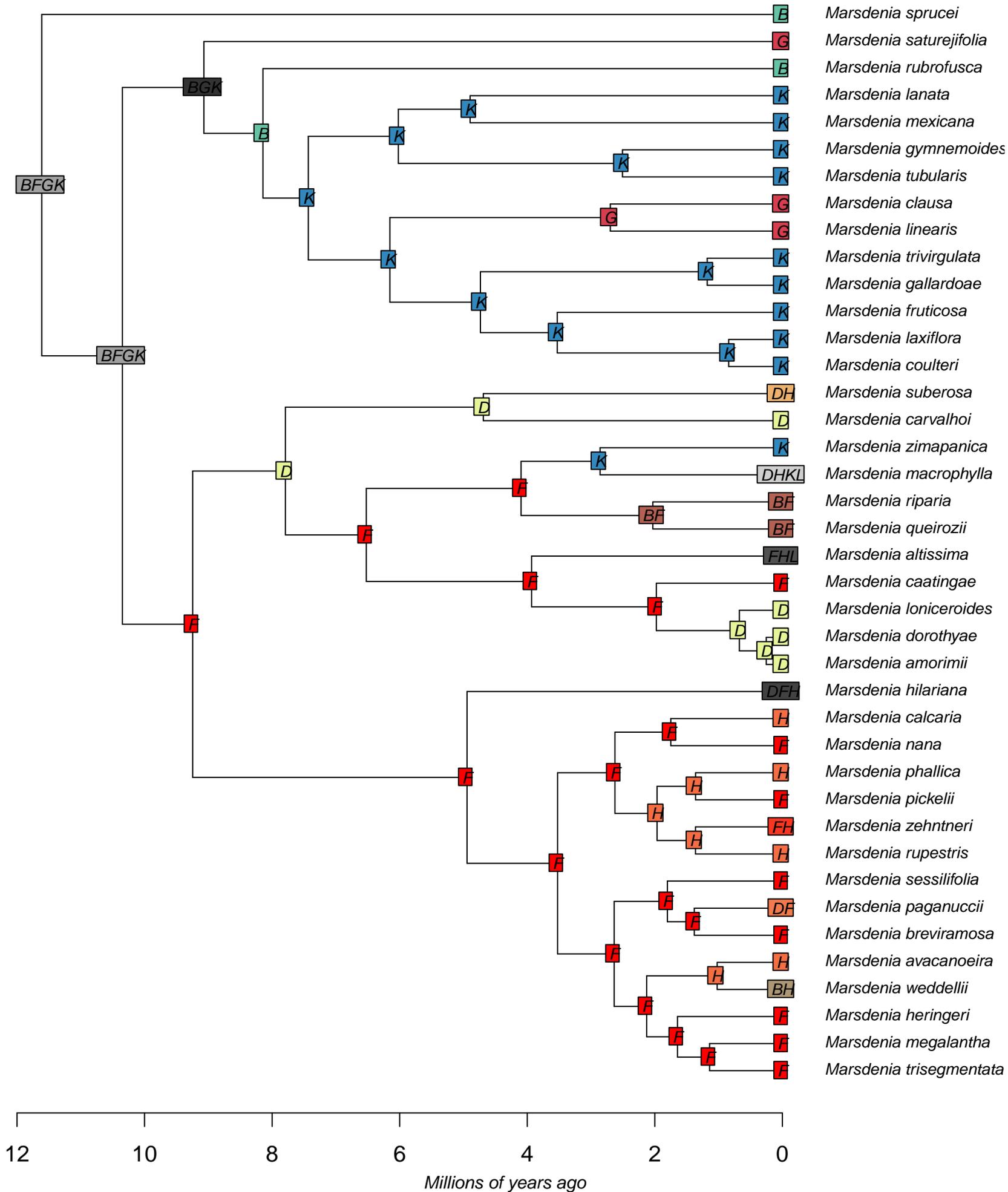
**Marsdenia BioGeoBEARS DEC**  
 ancstates: global optim, 4 areas max. d=0.0177; e=0; j=0; LnL=-96.81



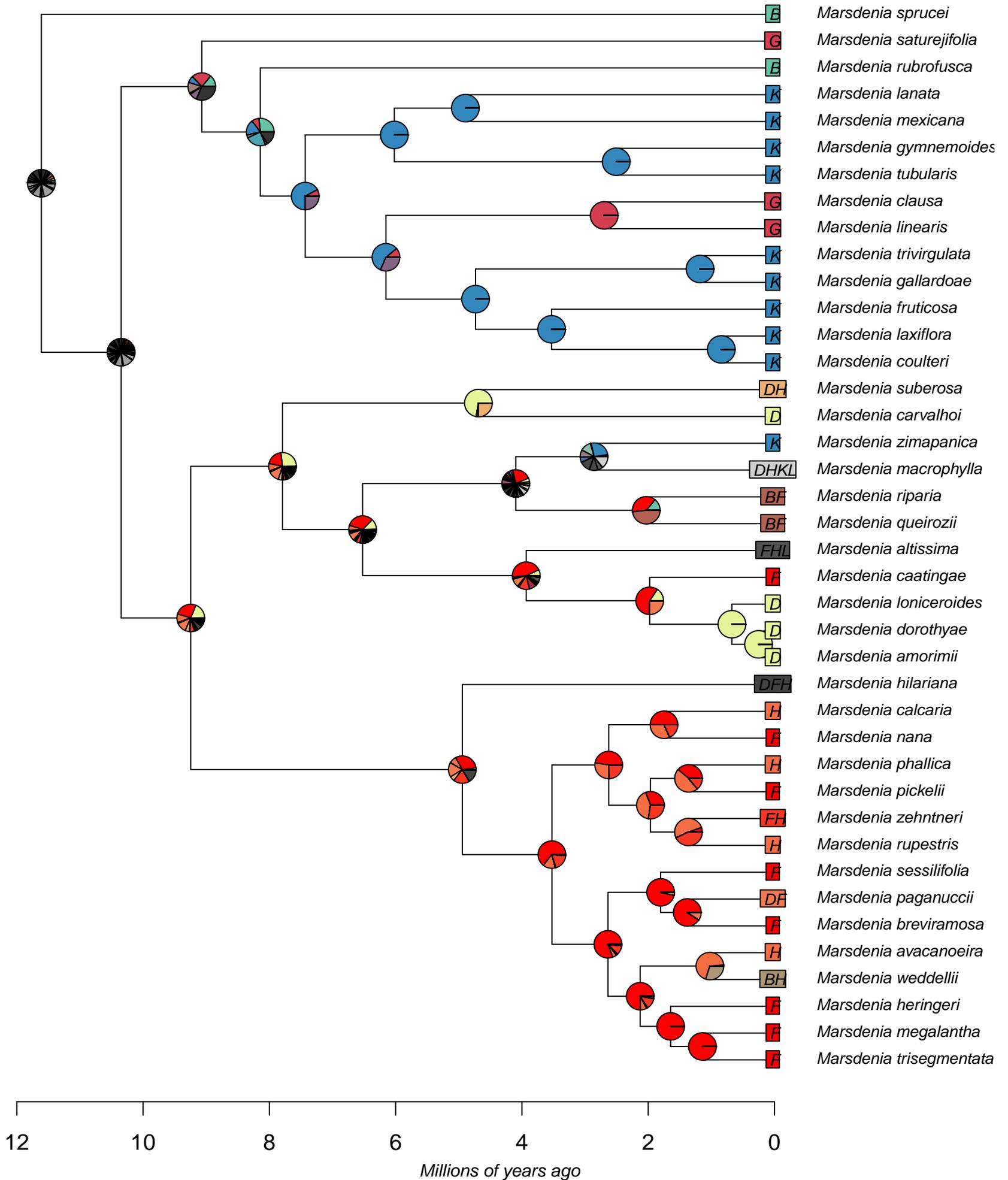
**Marsdenia BioGeoBEARS DEC**  
 ancstates: global optim, 4 areas max. d=0.0177; e=0; j=0; LnL=-96.81



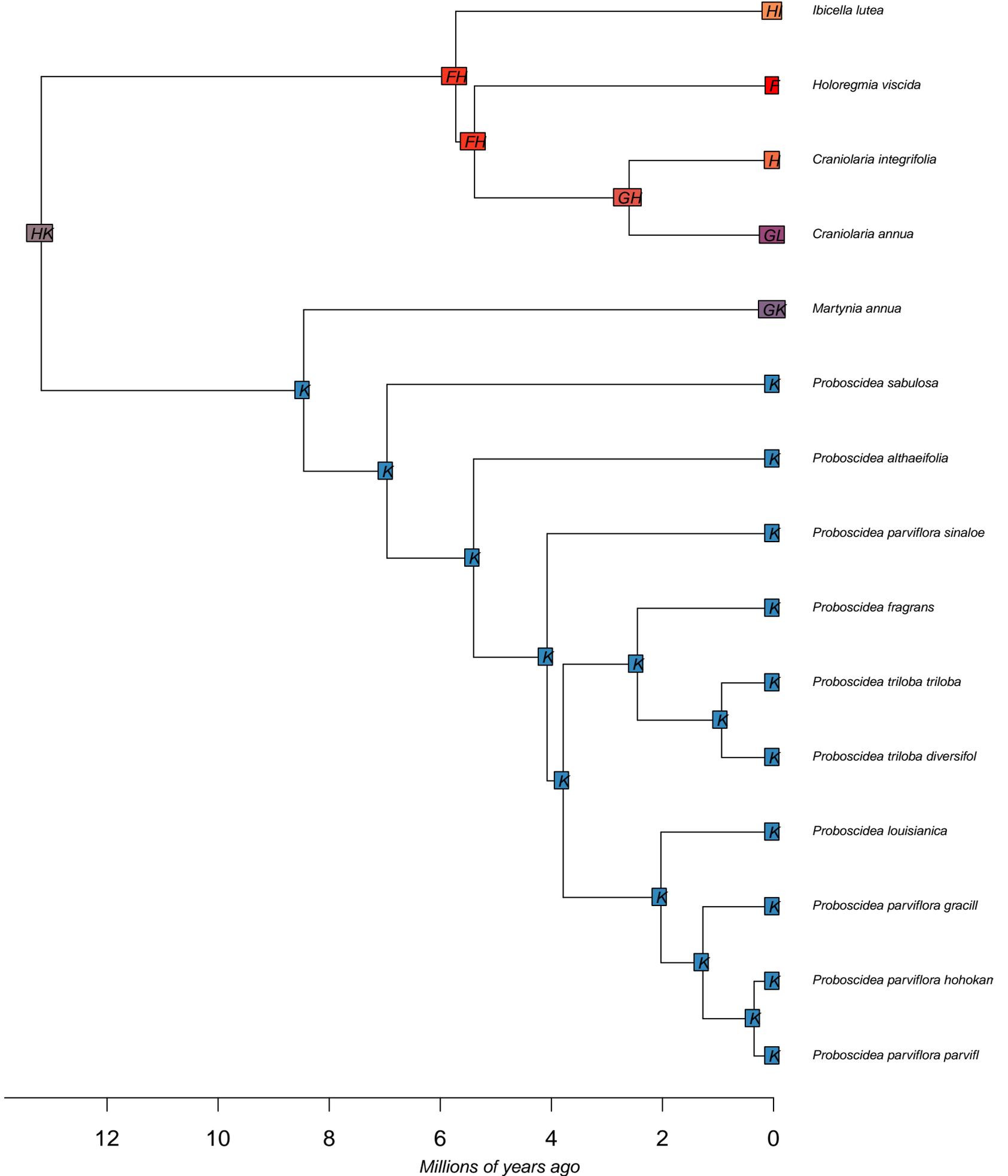
Marsdenia BioGeoBEARS DEC+J  
 ancstates: global optim, 4 areas max. d=0.0138; e=0; j=0.0248; LnL=-92.42



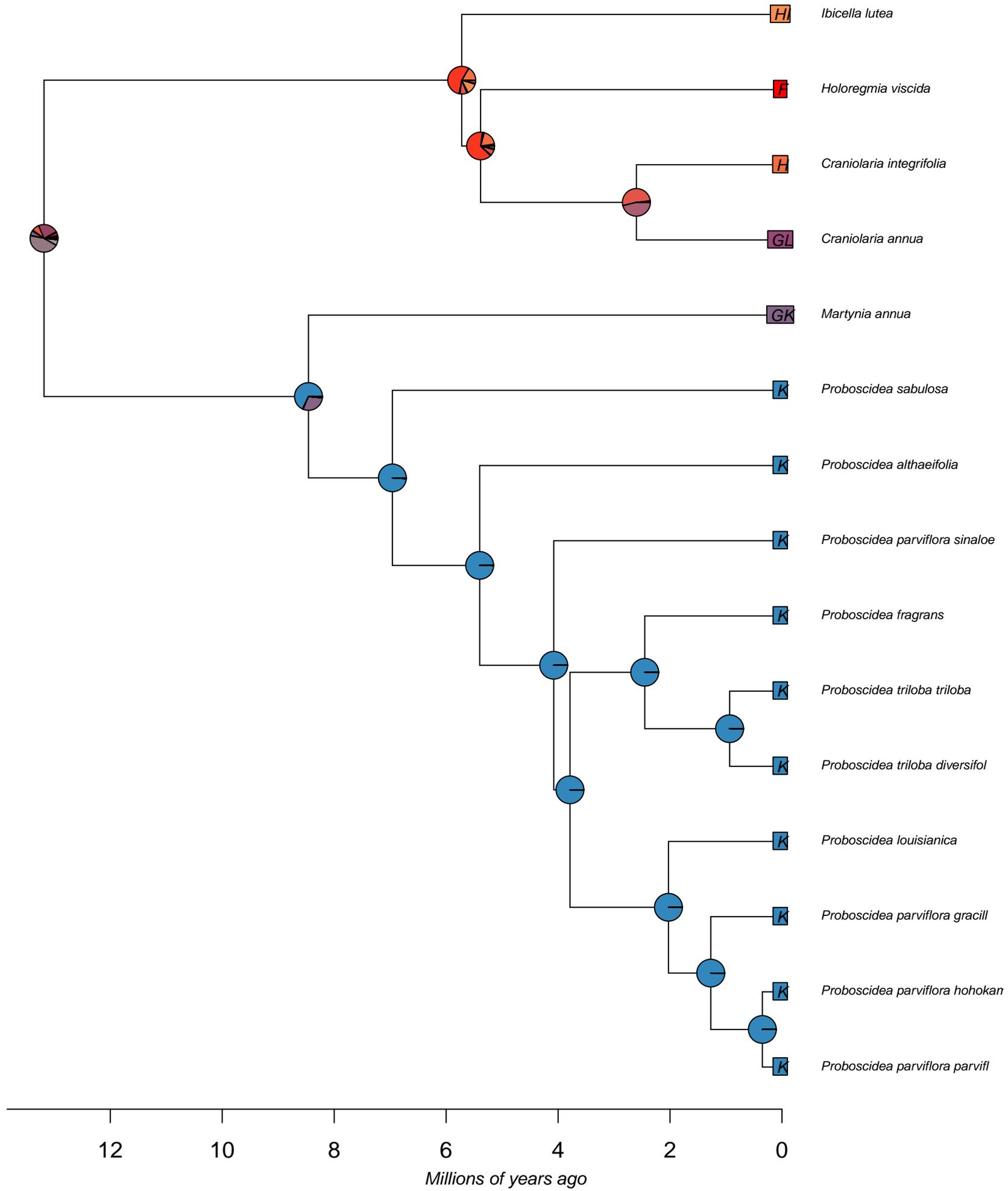
Marsdenia BioGeoBEARS DEC+J  
 ancstates: global optim, 4 areas max. d=0.0138; e=0; j=0.0248; LnL=-92.42



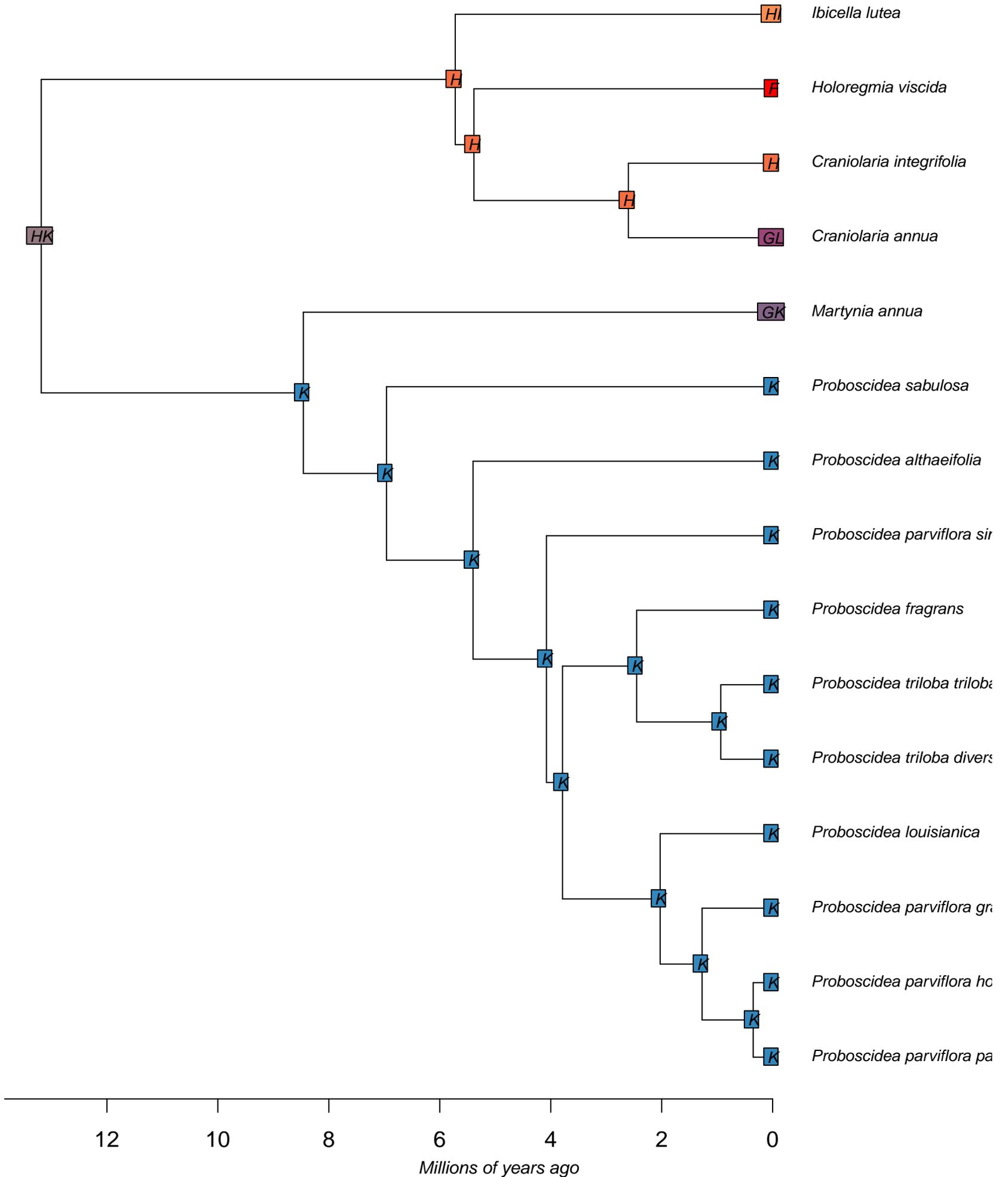
Martyniaceae BioGeoBEARS DEC  
 ancstates: global optim, 2 areas max. d=0.0179; e=0.0067; j=0; LnL=-22.89



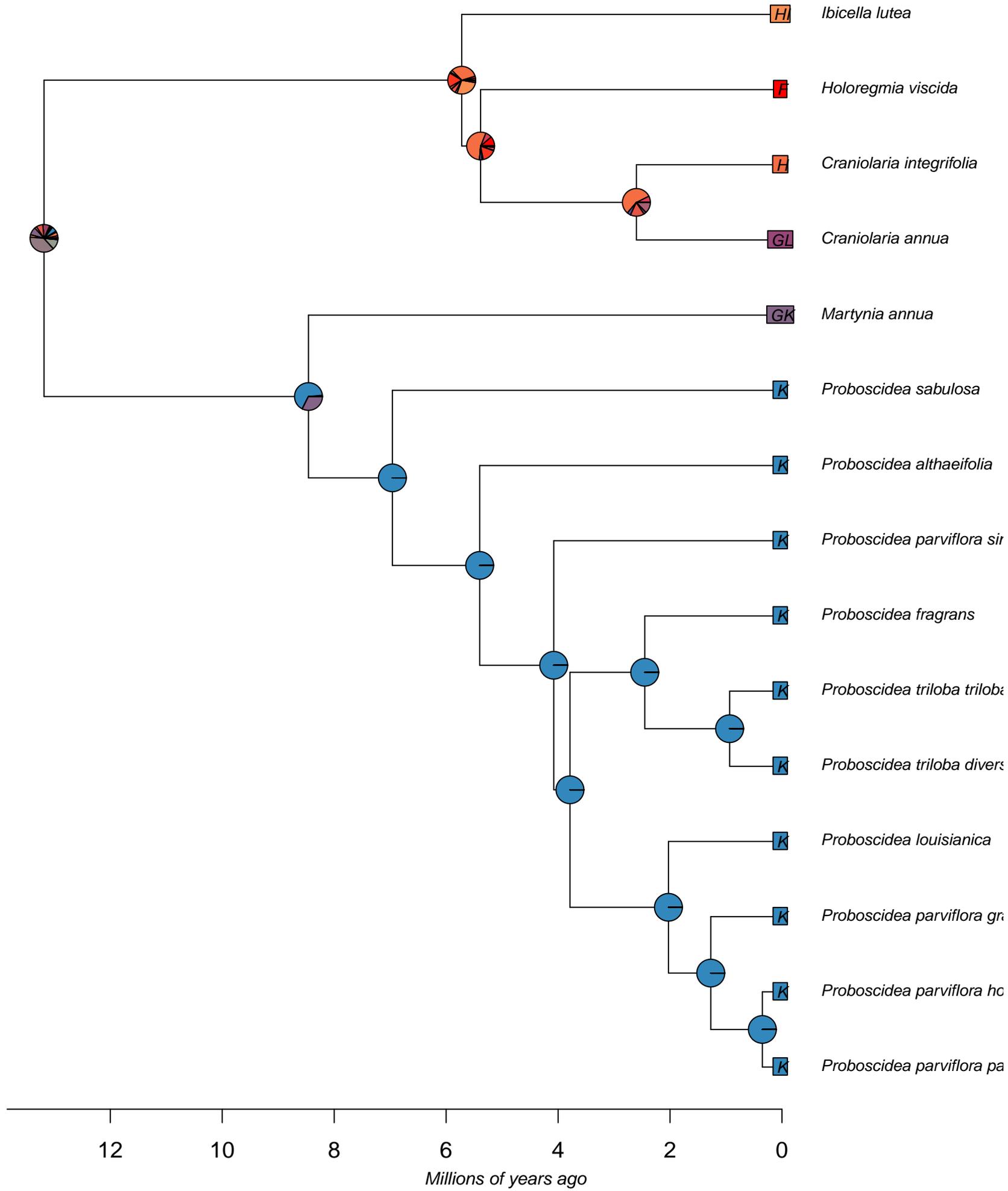
Martyniaceae BioGeoBEARS DEC  
 ancstates: global optim, 2 areas max. d=0.0179; e=0.0067; j=0; LnL=-22.89



Martyniaceae BioGeoBEARS DEC+J  
 ancstates: global optim, 2 areas max. d=0.0114; e=0; j=0.0188; LnL=-21.64



Martyniaceae BioGeoBEARS DEC+J  
 ancstates: global optim, 2 areas max. d=0.0114; e=0; j=0.0188; LnL=-21.64



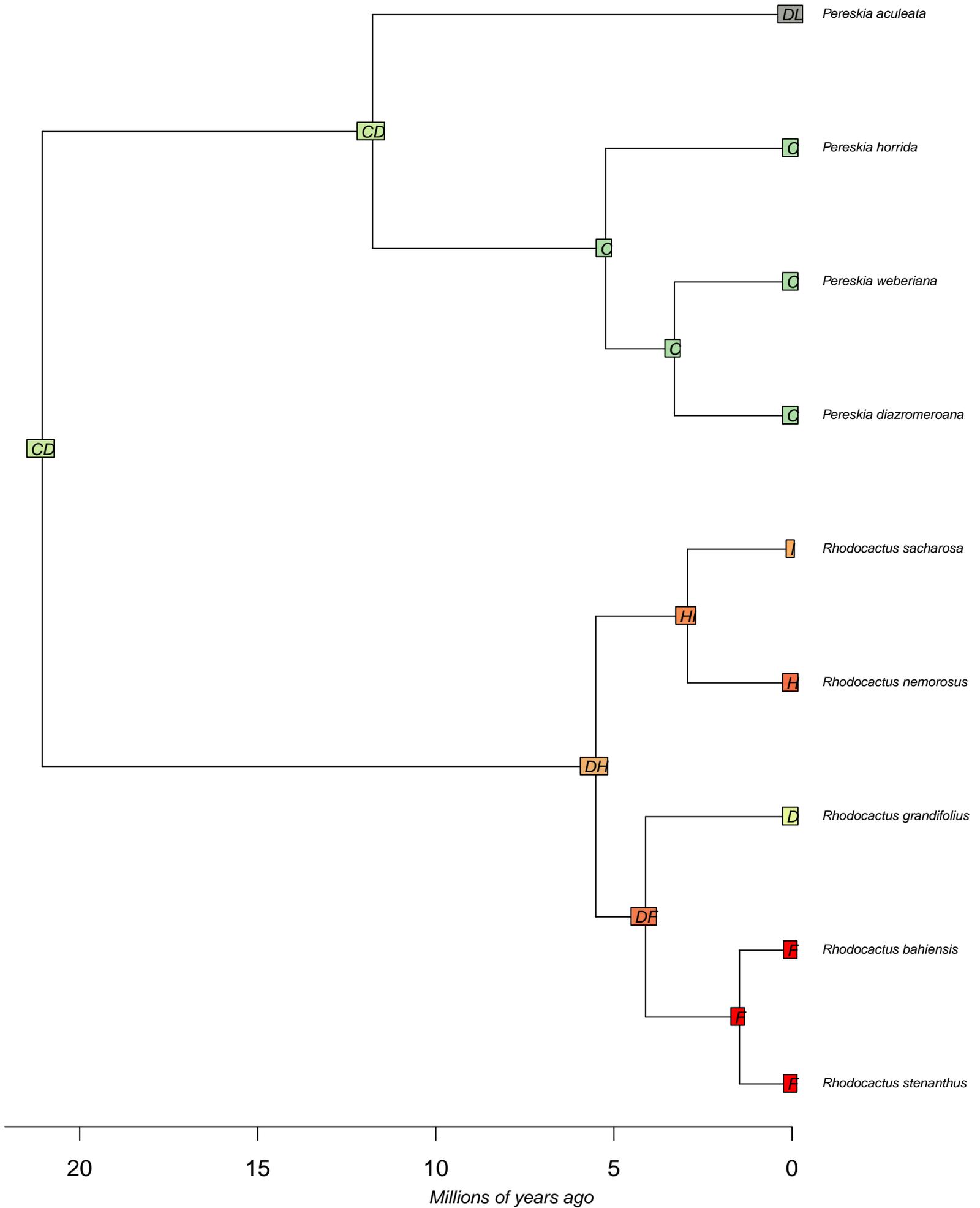




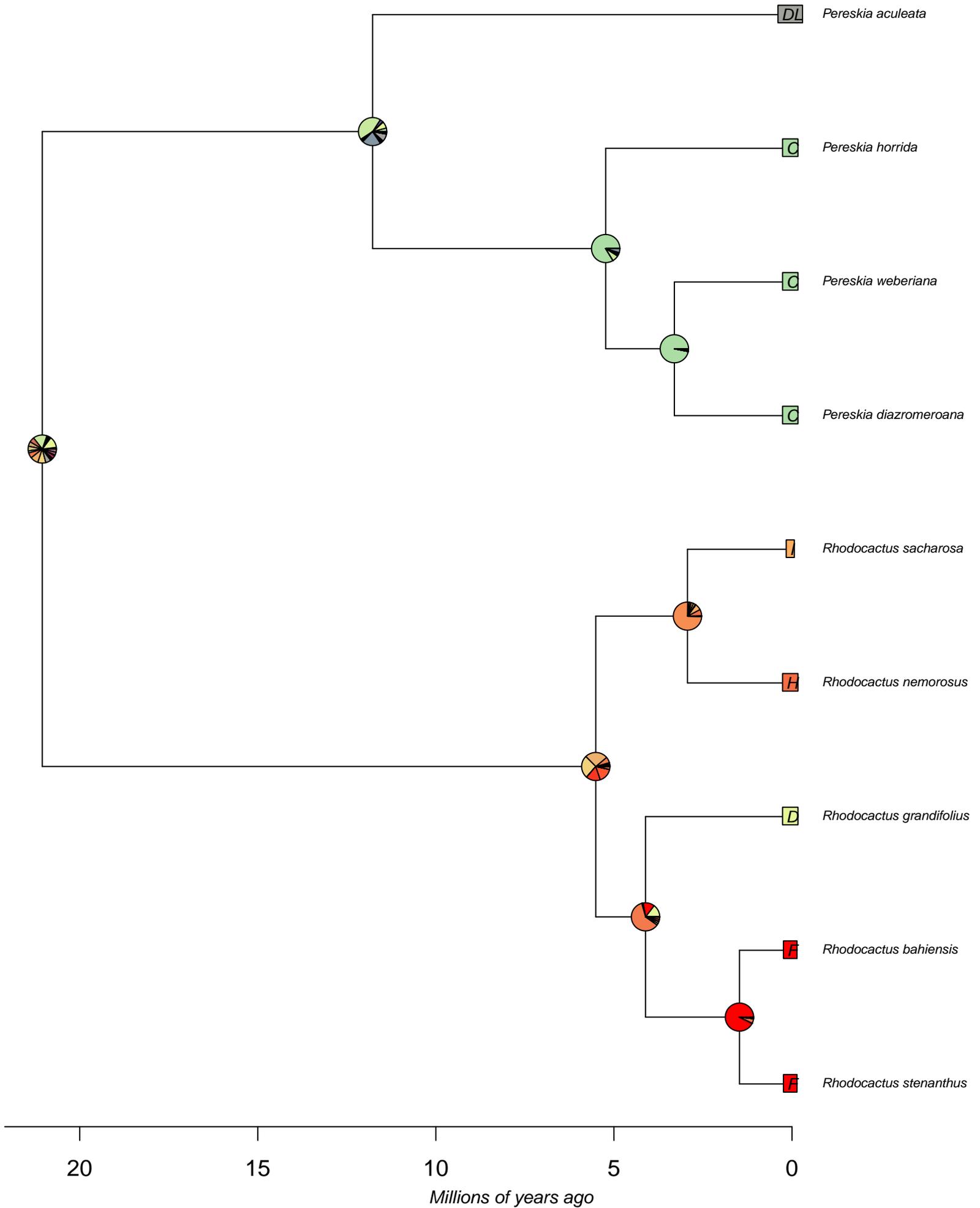




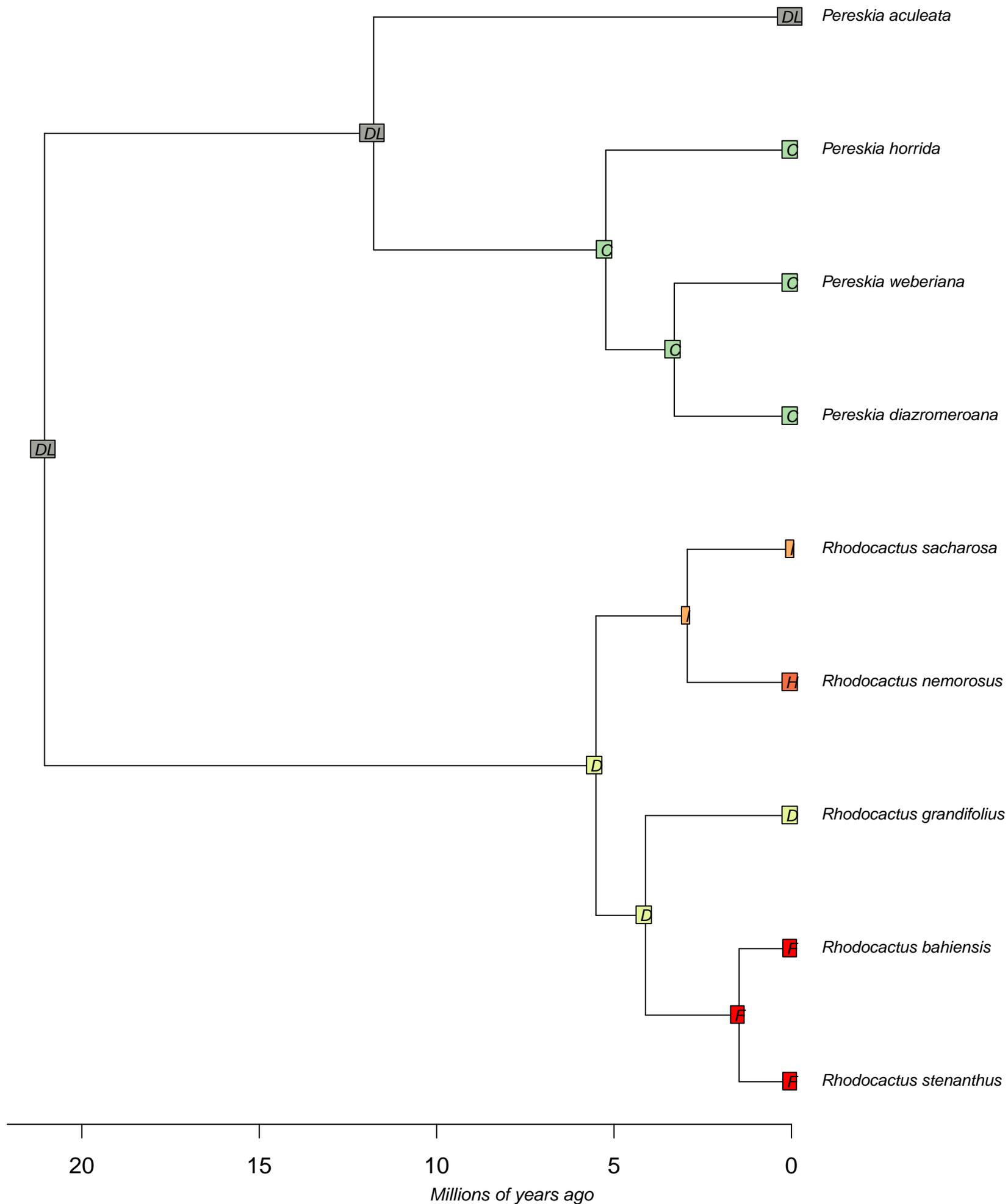
Pereskia BioGeoBEARS DEC  
ancstates: global optim, 2 areas max. d=0.0226; e=0.0218; j=0; LnL=-20.52



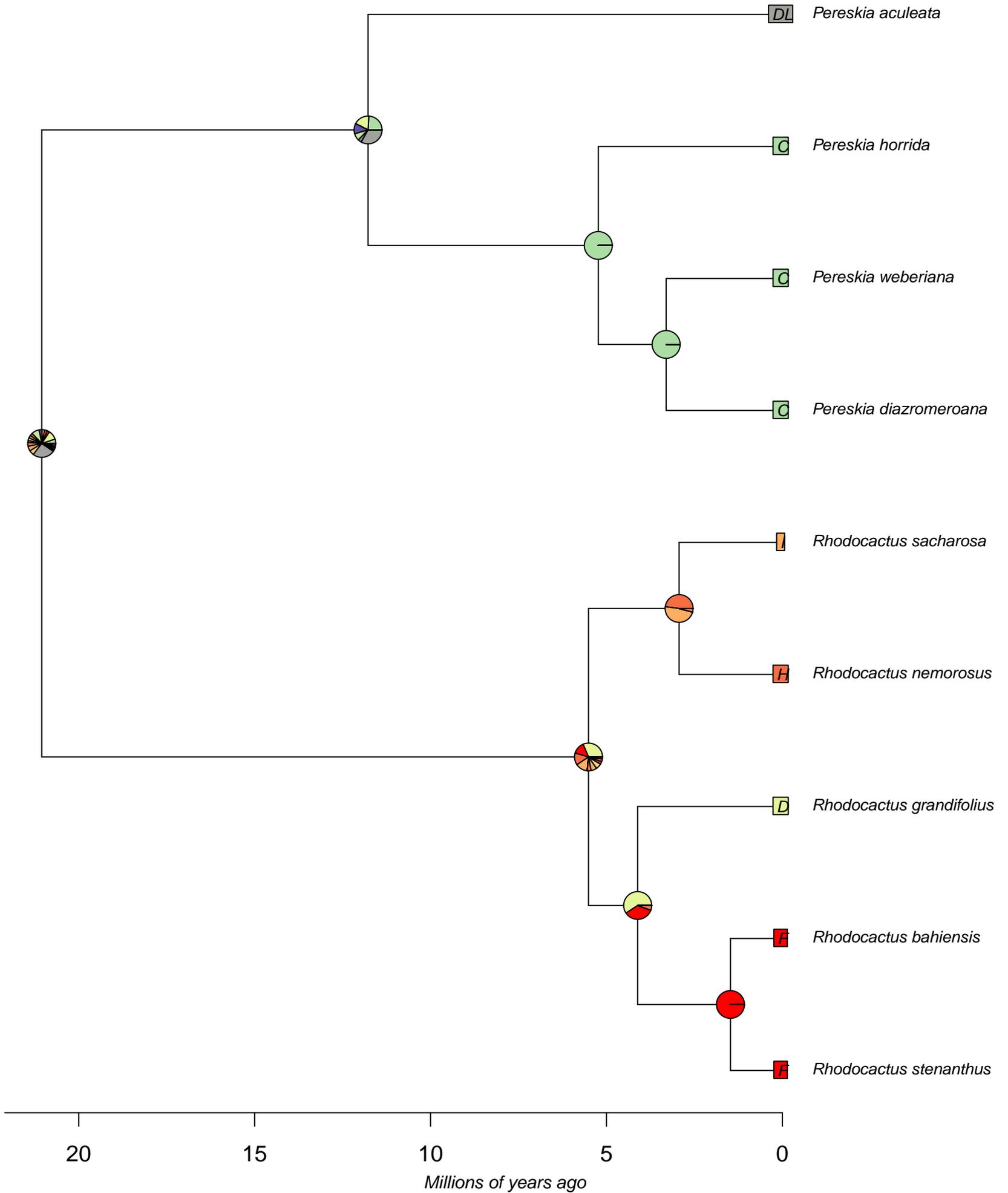
Pereskia BioGeoBEARS DEC  
ancstates: global optim, 2 areas max. d=0.0226; e=0.0218; j=0; LnL=-20.52



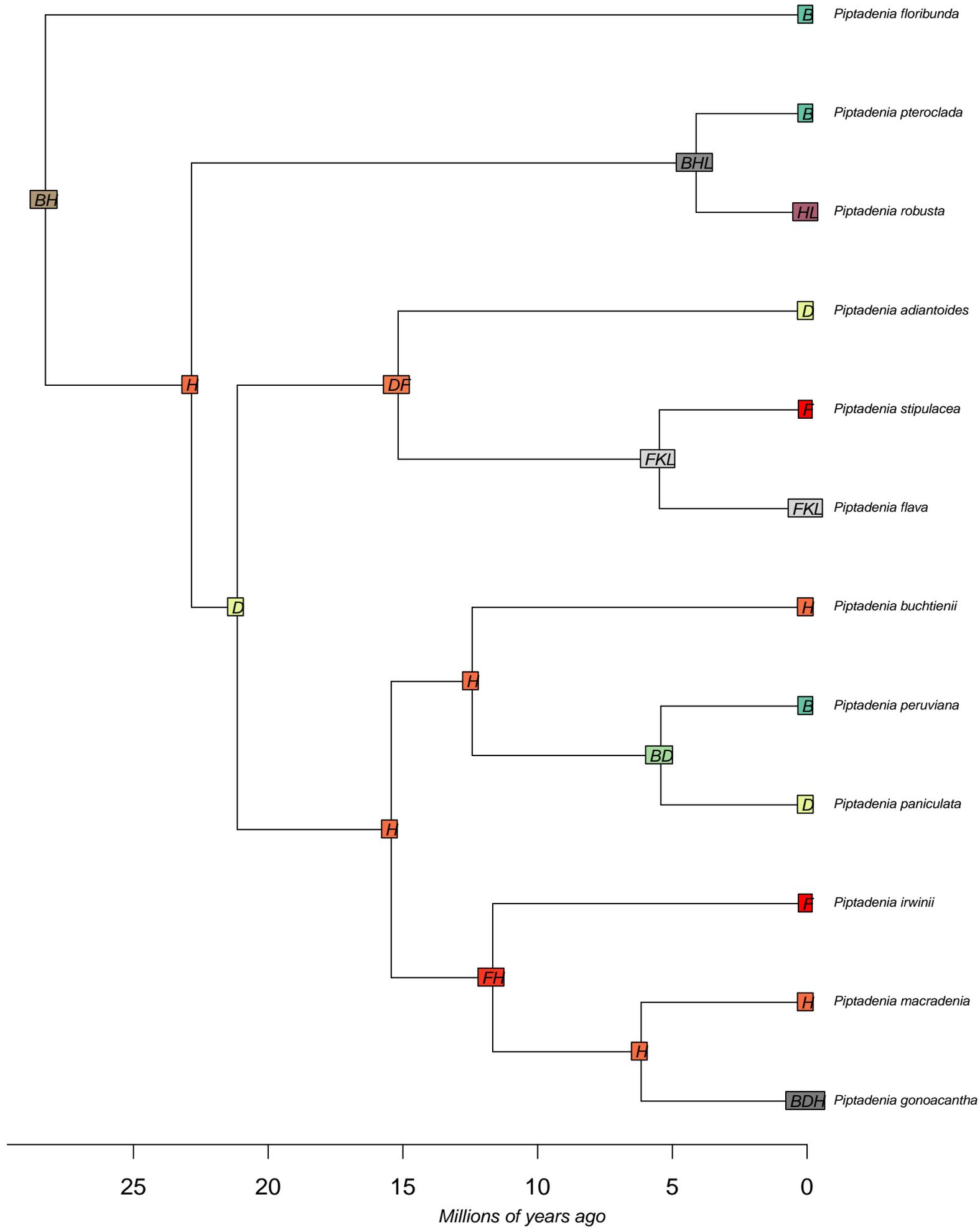
Pereskia BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0.0031; e=0; j=0.1308; LnL=-15.24



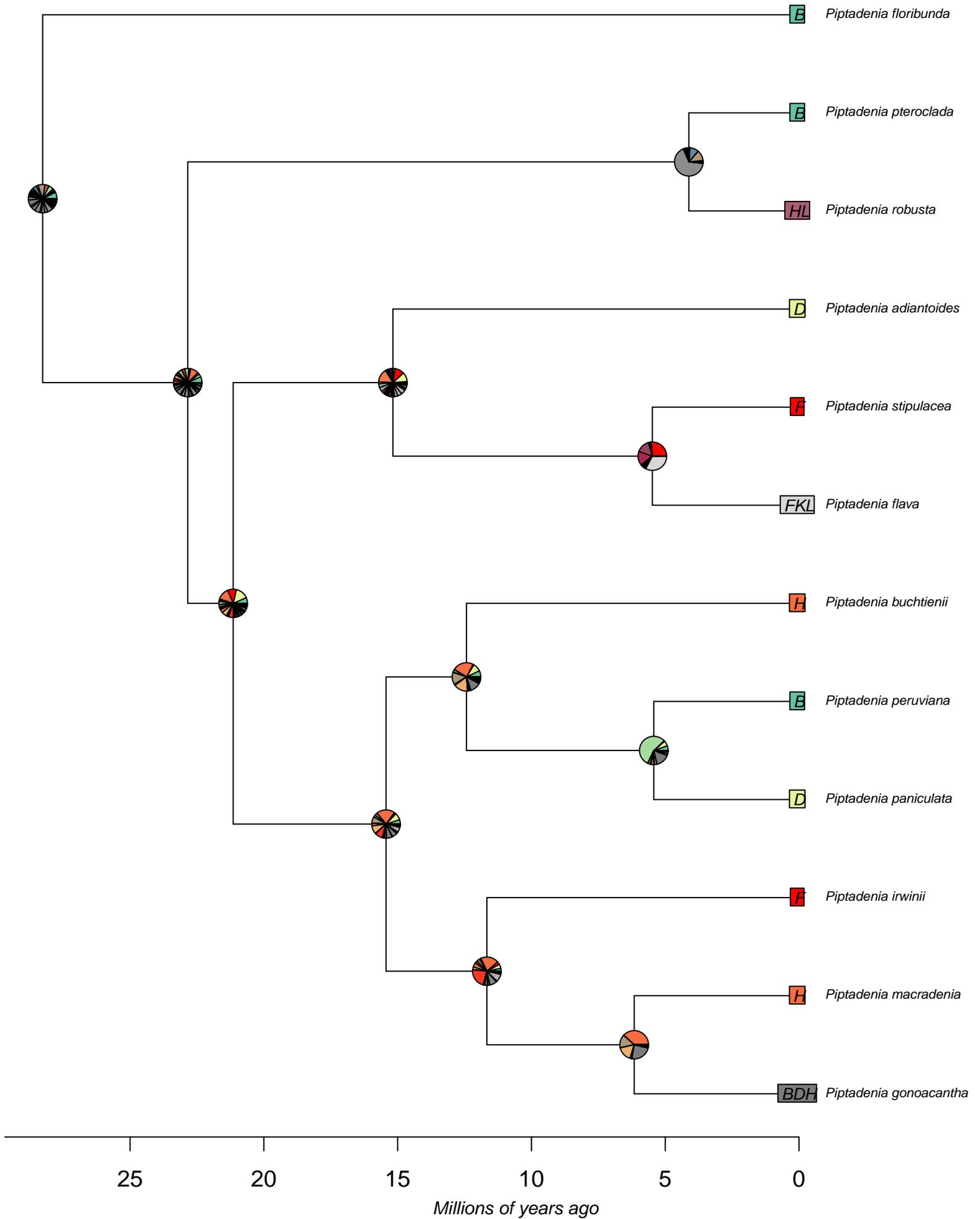
Pereskia BioGeoBEARS DEC+J  
ancstates: global optim, 2 areas max. d=0.0031; e=0; j=0.1308; LnL=-15.24



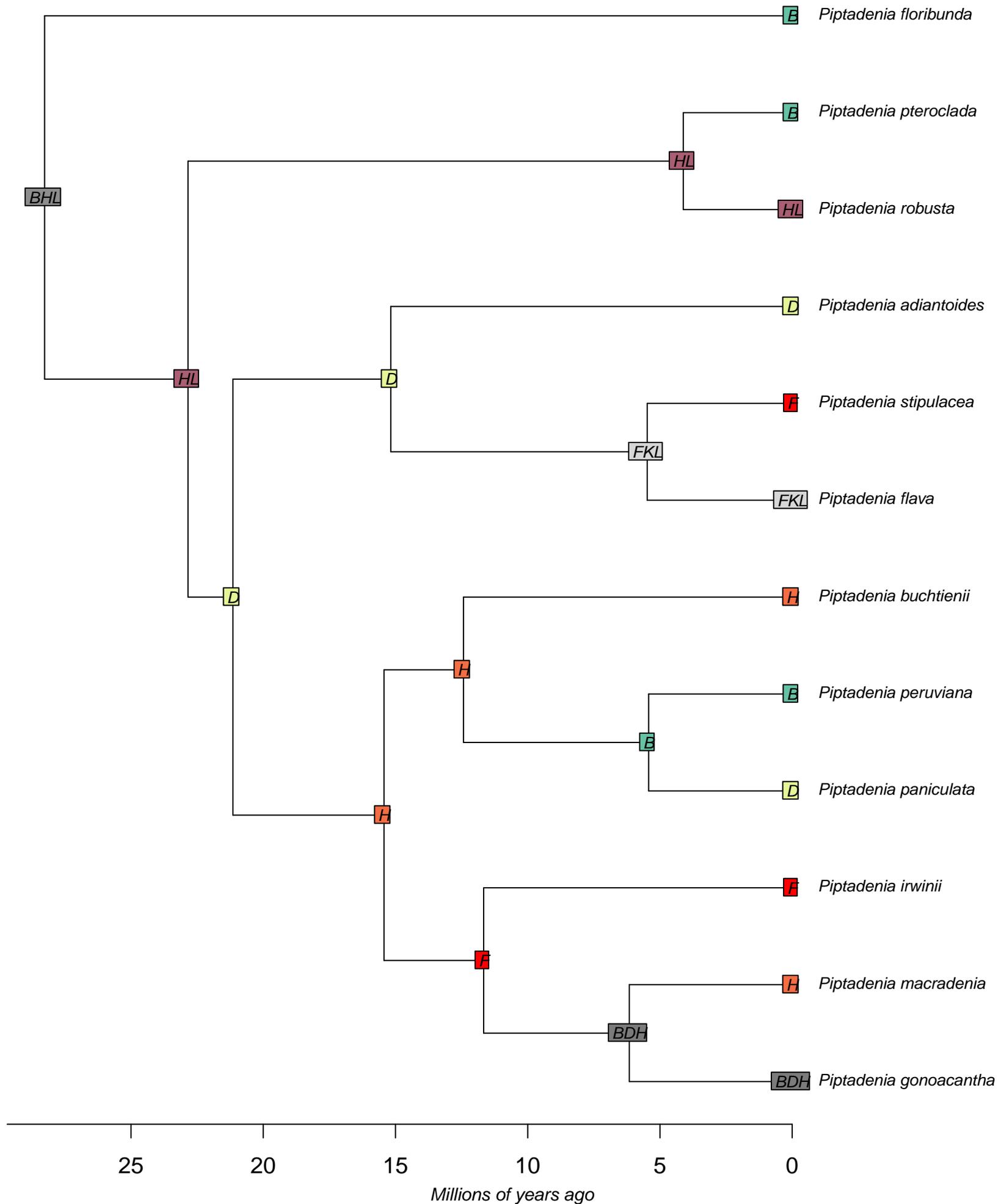
Piptadenia BioGeoBEARS DEC  
 ancstates: global optim, 3 areas max. d=0.0163; e=0.0237; j=0; LnL=-39.30



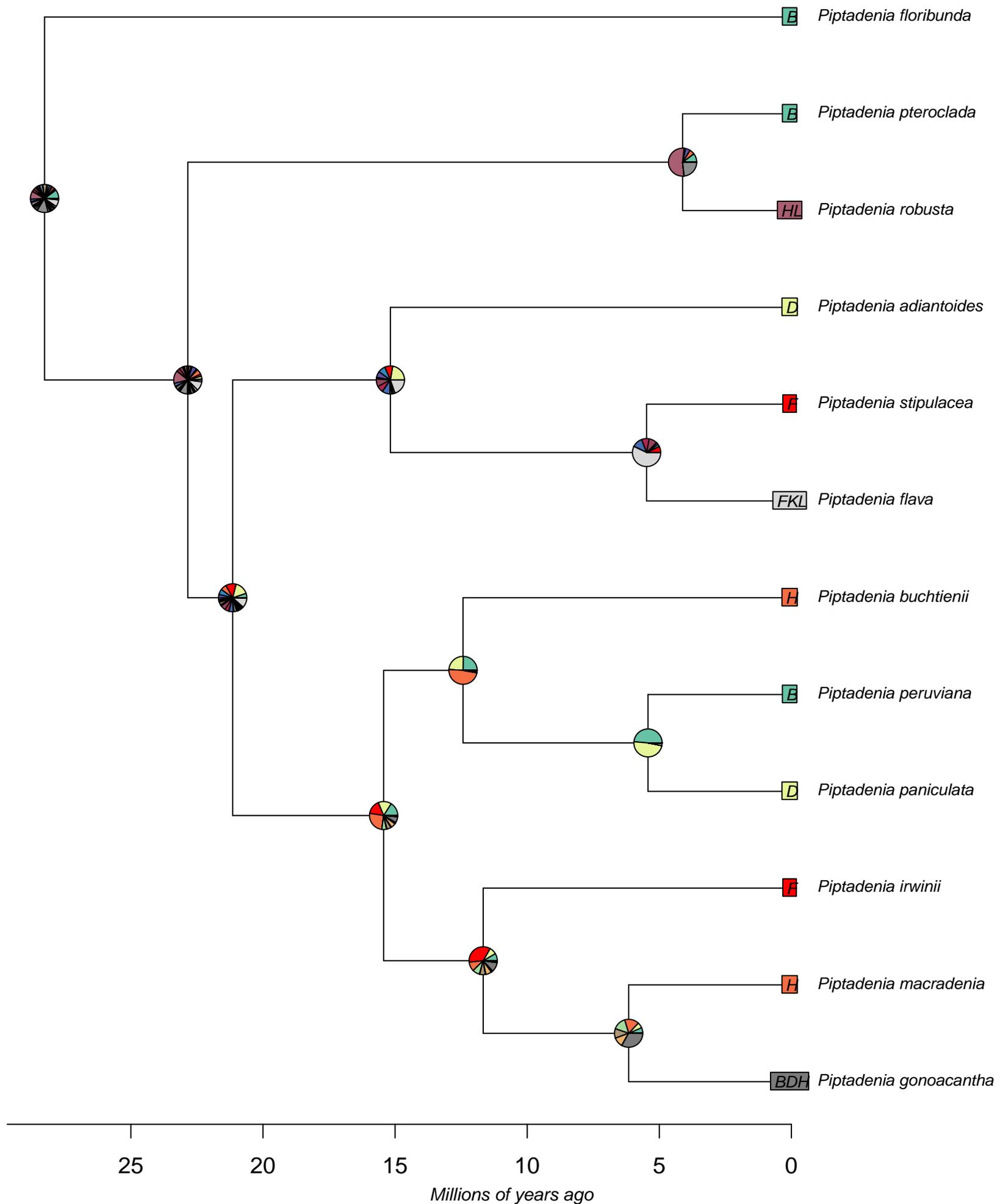
**Piptadenia BioGeoBEARS DEC**  
ancstates: global optim, 3 areas max. d=0.0163; e=0.0237; j=0; LnL=-39.30



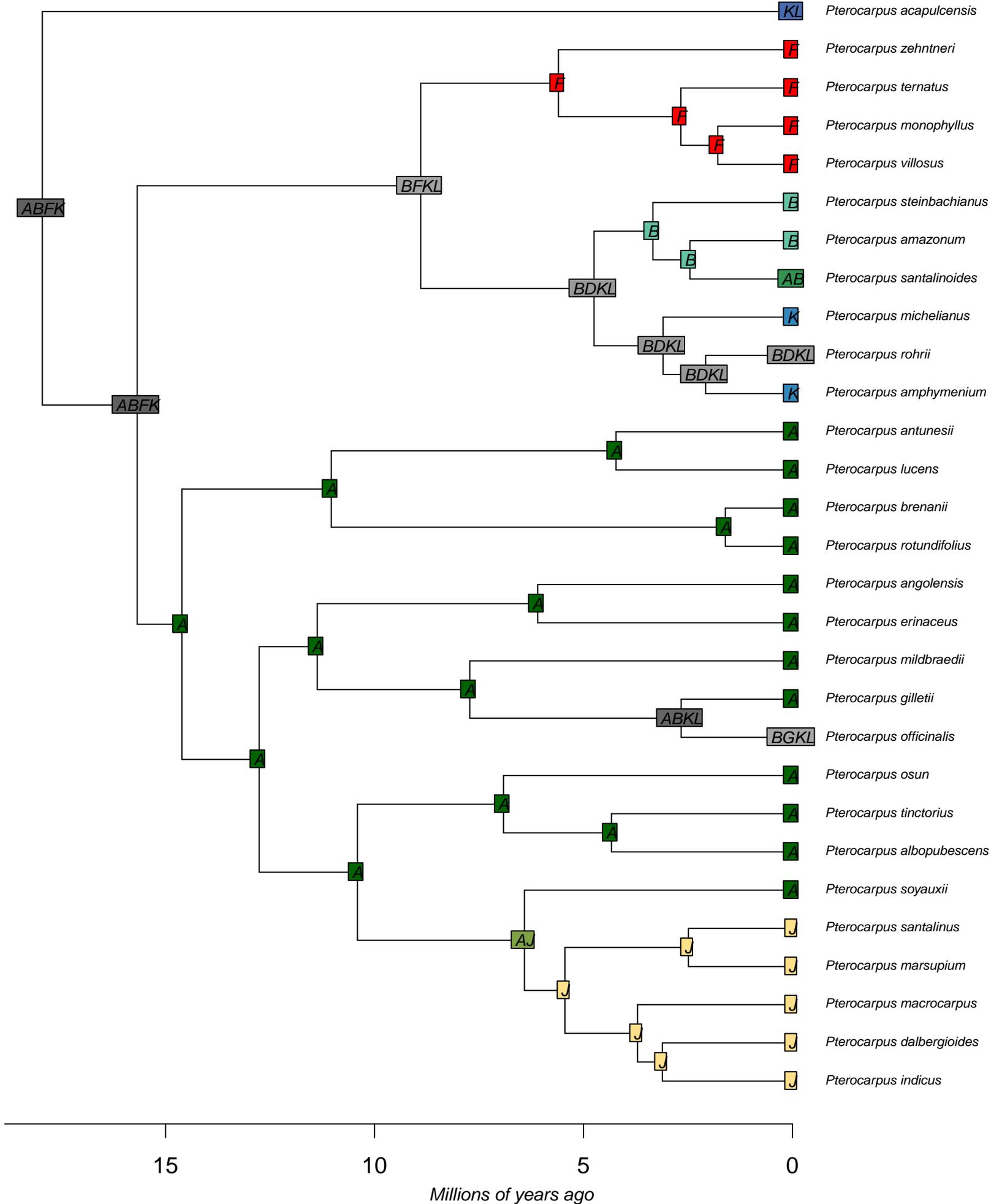
Piptadenia BioGeoBEARS DEC+J  
ancstates: global optim, 3 areas max. d=0.0055; e=0; j=0.9237; LnL=-31.61



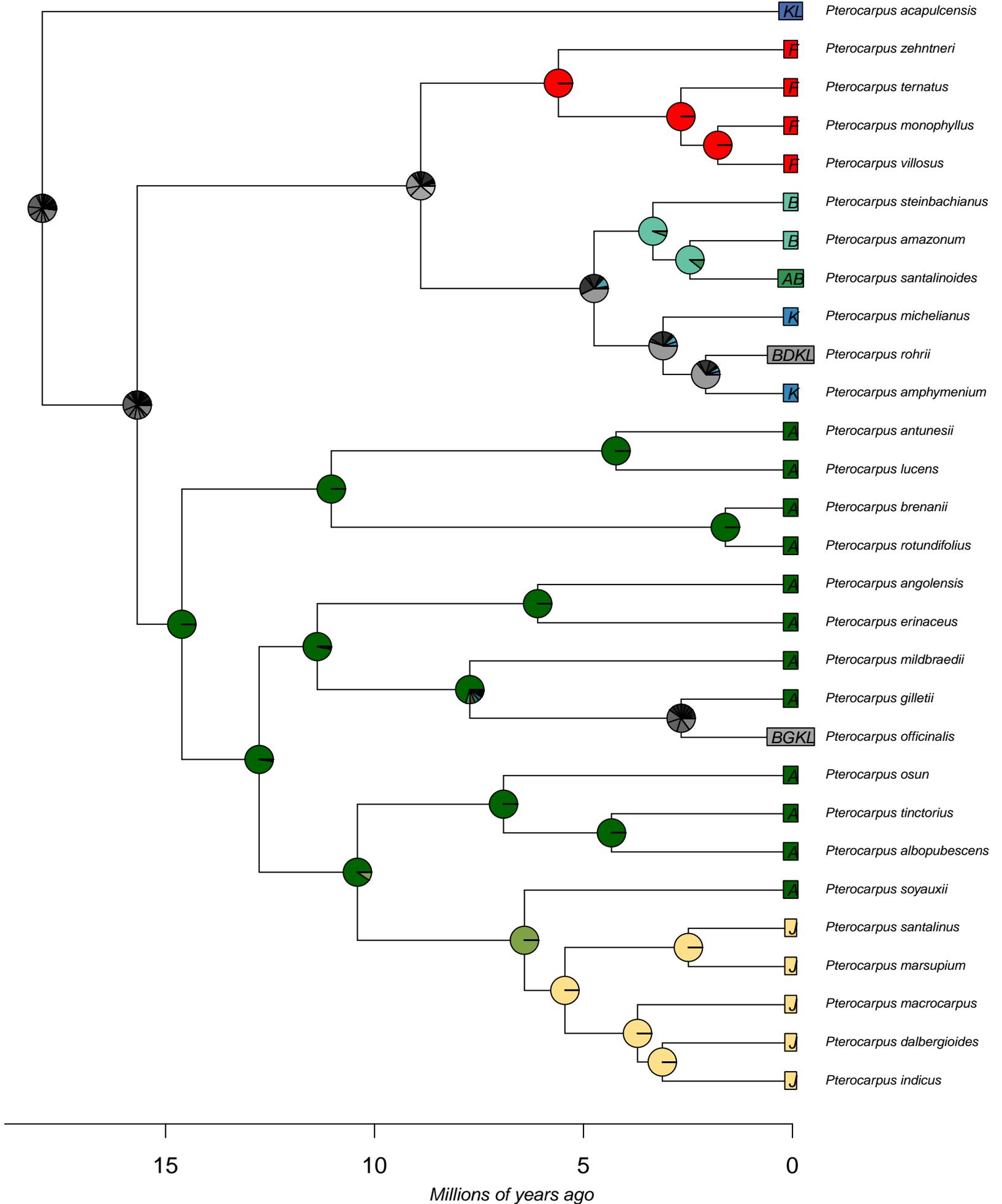
**Piptadenia BioGeoBEARS DEC+J**  
 ancstates: global optim, 3 areas max. d=0.0055; e=0; j=0.9237; LnL=-31.61



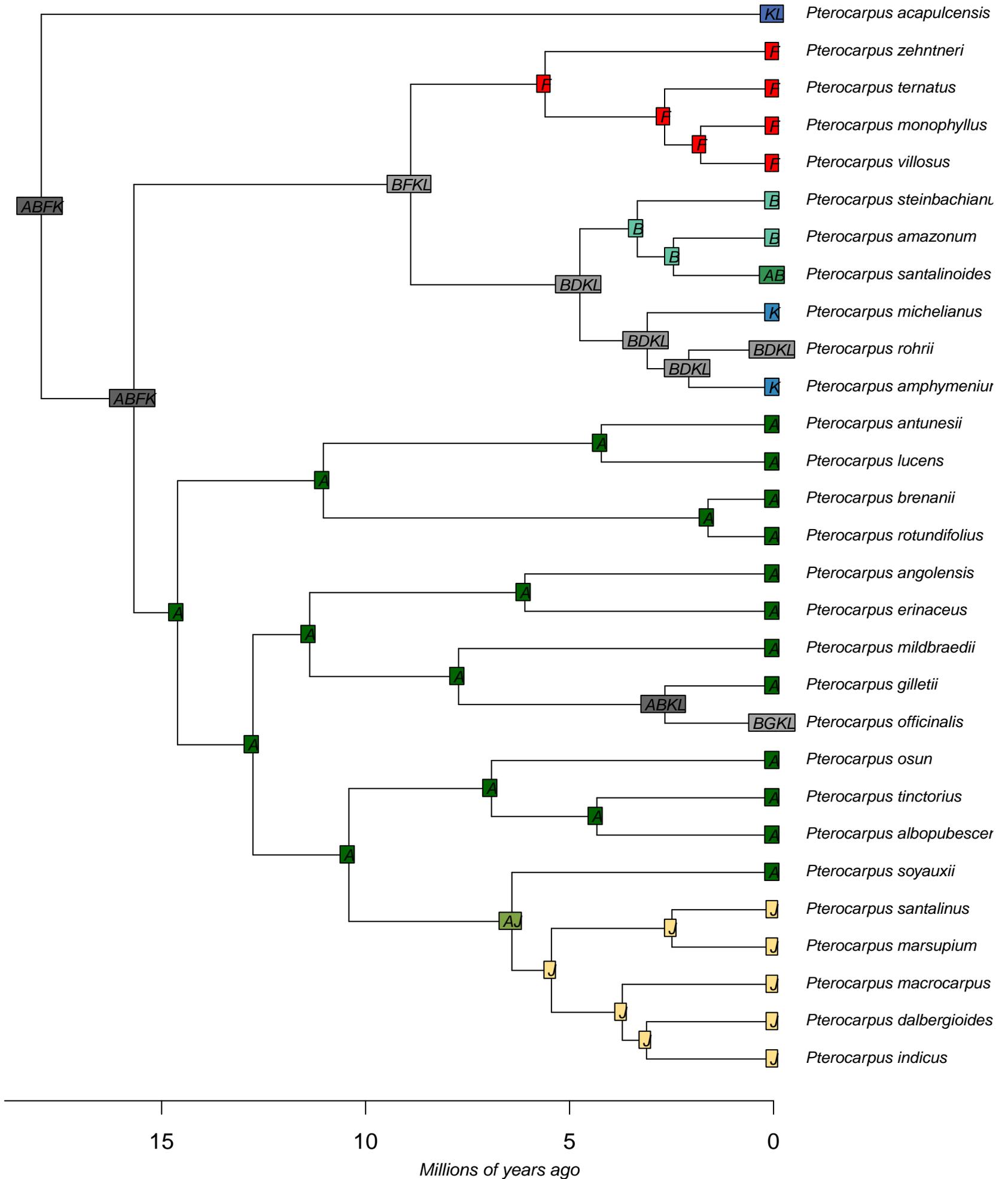
**Pterocarpus BioGeoBEARS DEC**  
 ancstates: global optim, 4 areas max. d=0.0065; e=0; j=0; LnL=-49.28



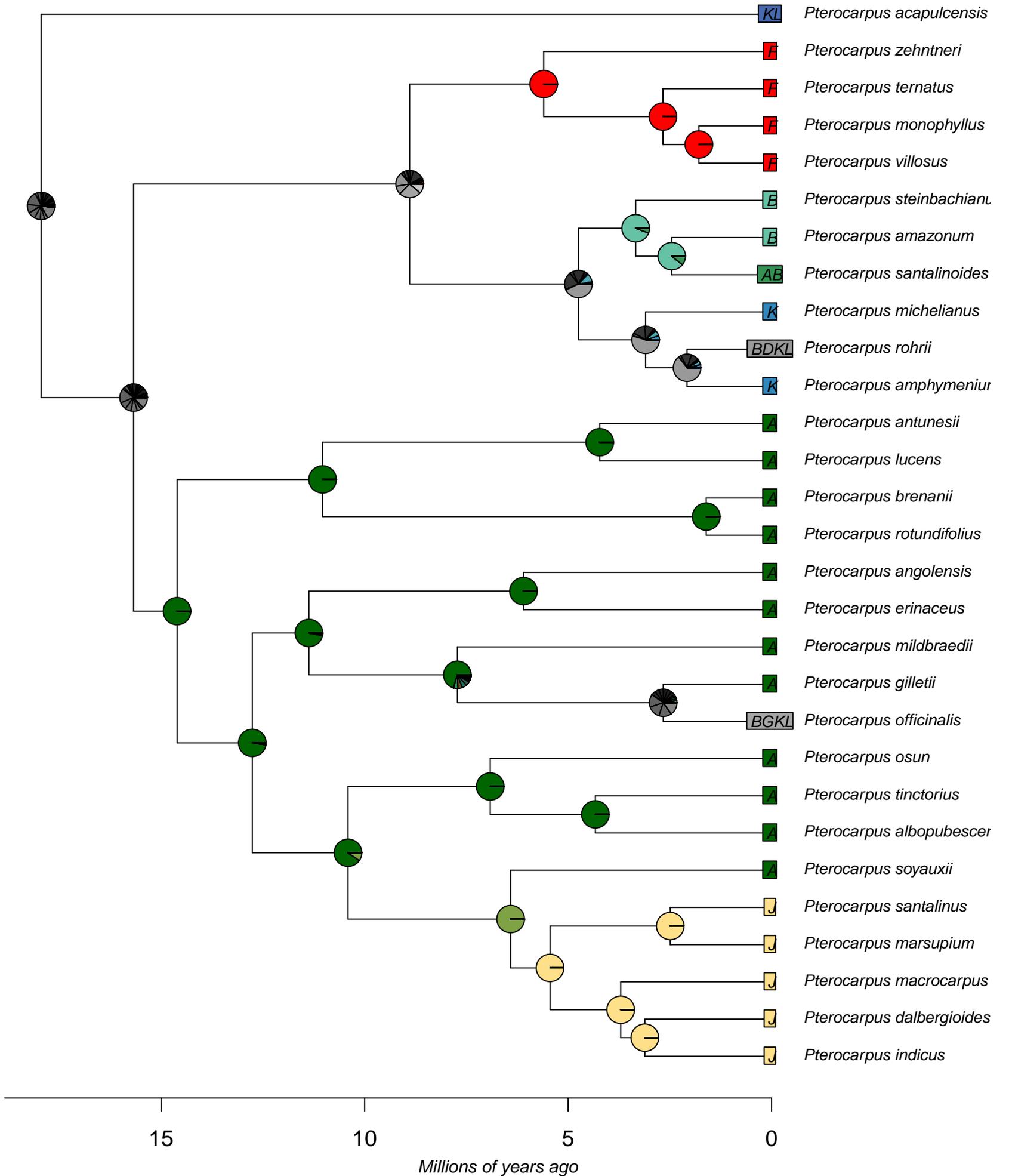
**Pterocarpus BioGeoBEARS DEC**  
 ancstates: global optim, 4 areas max. d=0.0065; e=0; j=0; LnL=-49.28



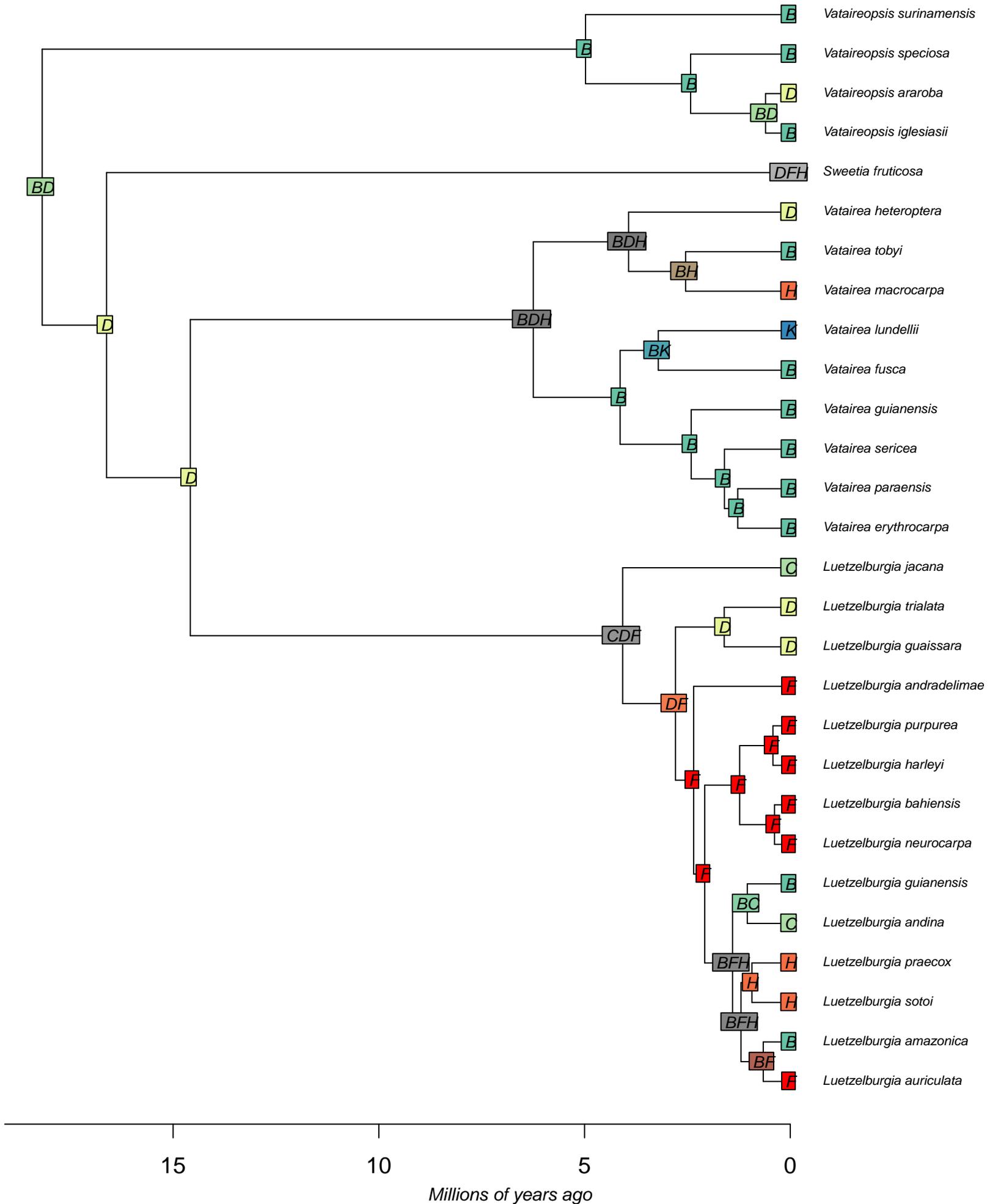
**Pterocarpus BioGeoBEARS DEC+J**  
 ancstates: global optim, 4 areas max. d=0.0065; e=0; j=0; LnL=-49.28



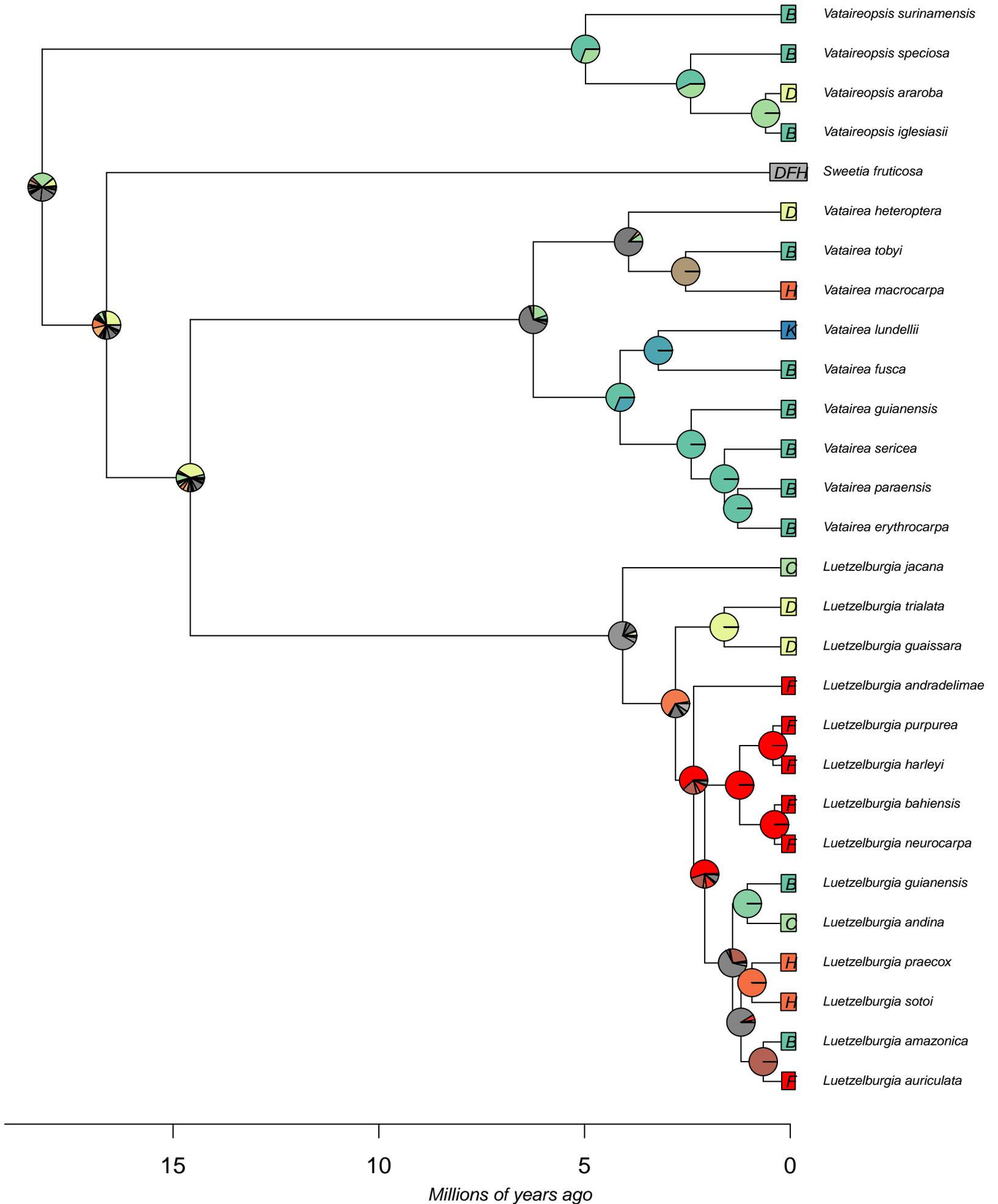
**Pterocarpus BioGeoBEARS DEC+J**  
 ancstates: global optim, 4 areas max. d=0.0065; e=0; j=0; LnL=-49.28



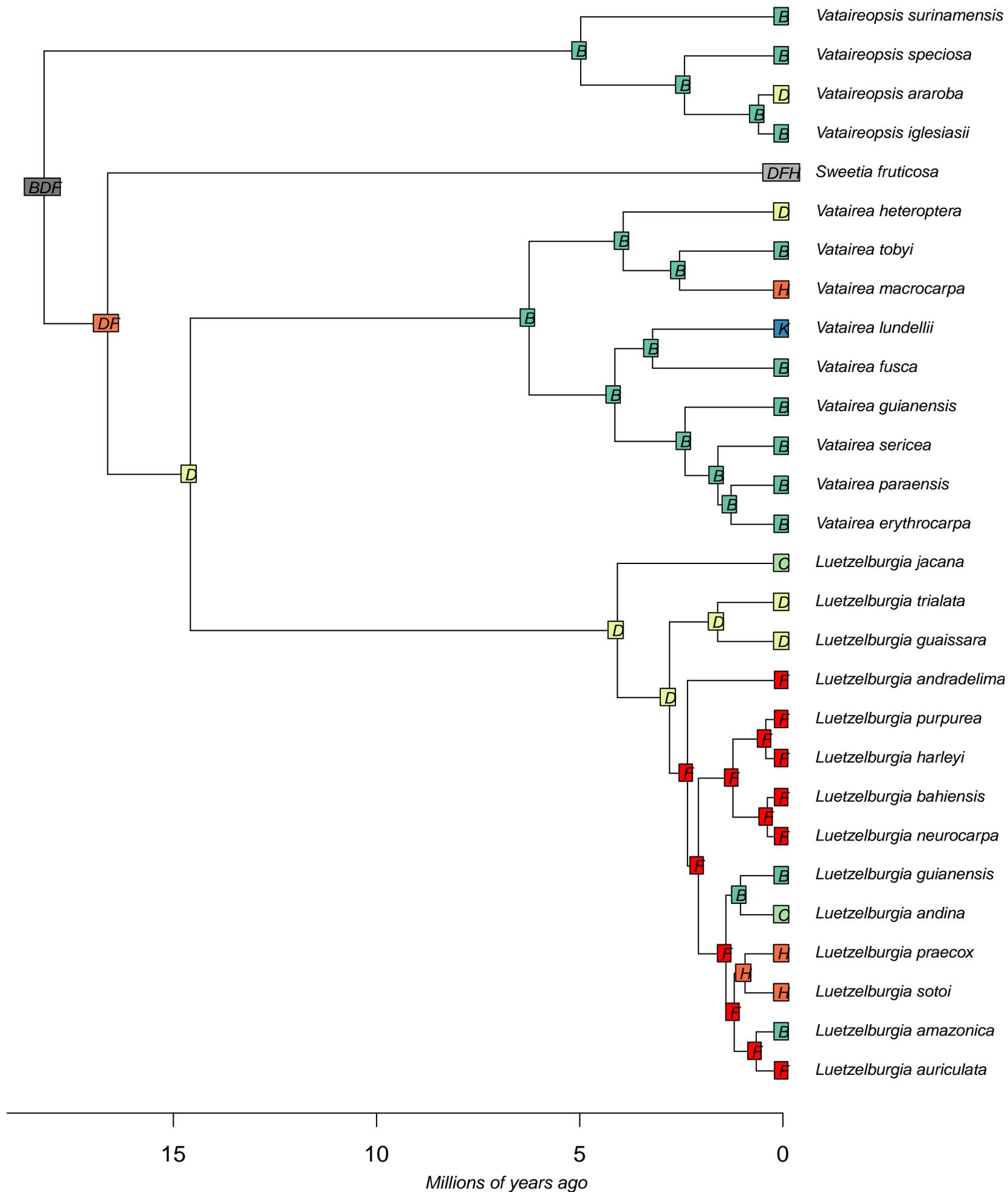
Vataireoids BioGeoBEARS DEC  
 ancstates: global optim, 3 areas max. d=0.019; e=0; j=0; LnL=-59.03



Vataireoids BioGeoBEARS DEC  
 ancstates: global optim, 3 areas max. d=0.019; e=0; j=0; LnL=-59.03



Vataireoids BioGeoBEARS DEC+J  
 ancstates: global optim, 3 areas max. d=0.0027; e=0; j=0.0873; LnL=-45.00



Vataireoids BioGeoBEARS DEC+J  
 ancstates: global optim, 3 areas max. d=0.0027; e=0; j=0.0873; LnL=-45.00

