

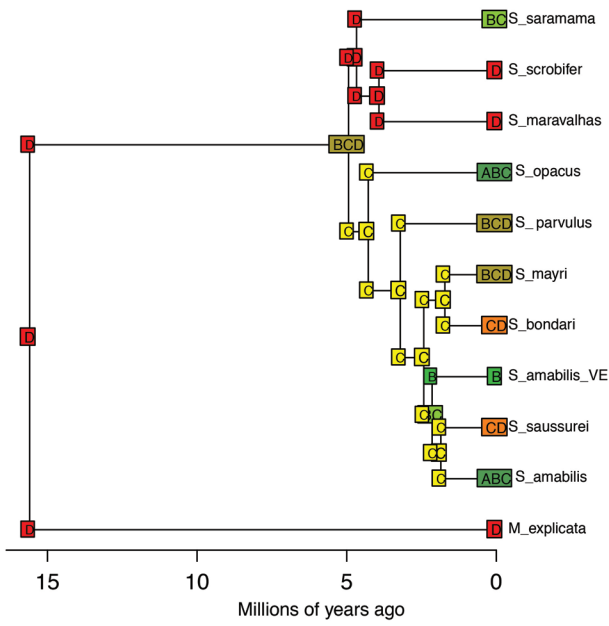
Digital supplementary material to

JEŠOVNIK, A., CHAUL, J. & SCHULTZ, T. 2018: Natural history and nest architecture of the fungus-farming ant genus *Sericomyrmex* (Hymenoptera: Formicidae). – Myrmecological News 26: 65-80.

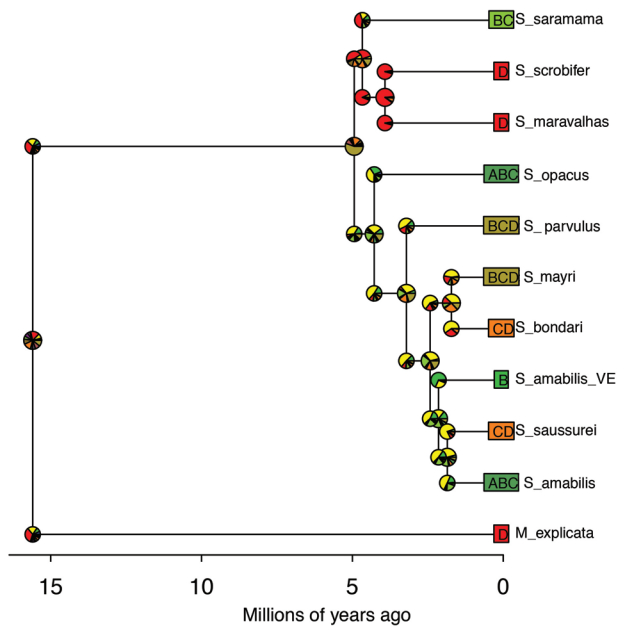
Tab. S1: (also available on FigShare: doi.org/10.6084/m9.figshare.5614705). (a) Natural history data from the literature, per species. (b) Nest architecture. Nest depth, volume, number, and dimensions of chambers for all of the collected *Sericomyrmex* nests, for each chamber. (c) Nest demography. Numbers of workers, pupae, larvae, queens, and males for each nest and, when available, for each chamber. (d) Arthropods collected in the waste midden of a *Sericomyrmex mayri* nest. (e) Voucher specimens for collected nests. See separately uploaded xls file.

File S1: Biogeography of genus *Sericomyrmex*. See separately uploaded pdf file.

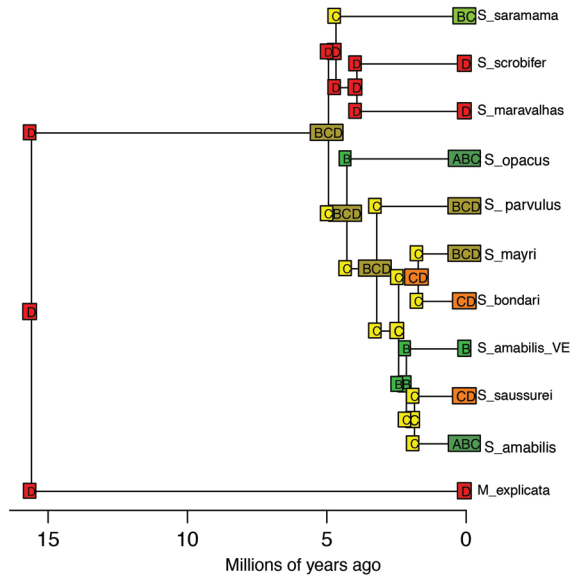
BioGeoBEARS DEC on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.2152$; $e=0.0697$; $j=0$; $\text{LnL}=-27.27$



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BioGeoBEARS DEC+J on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.1868$; $e=0.0398$; $j=0.2527$; $\text{LnL}=-26.51$



BioGeoBEARS DEC+J on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.1868$; $e=0.0398$; $j=0.2527$; $\text{LnL}=-26.51$

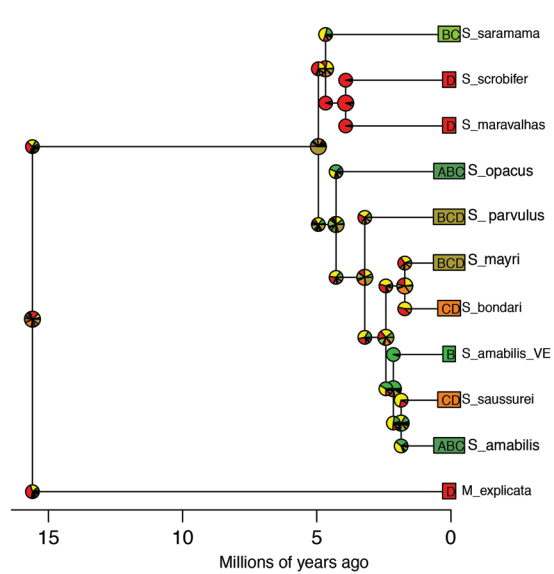
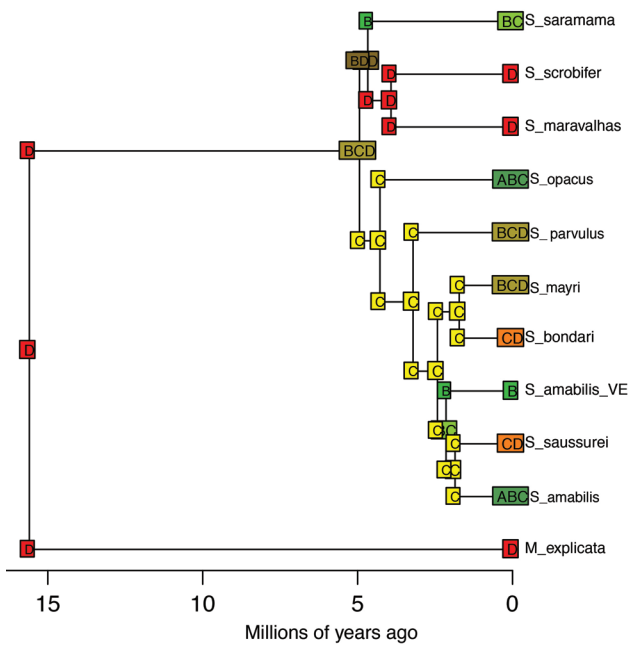
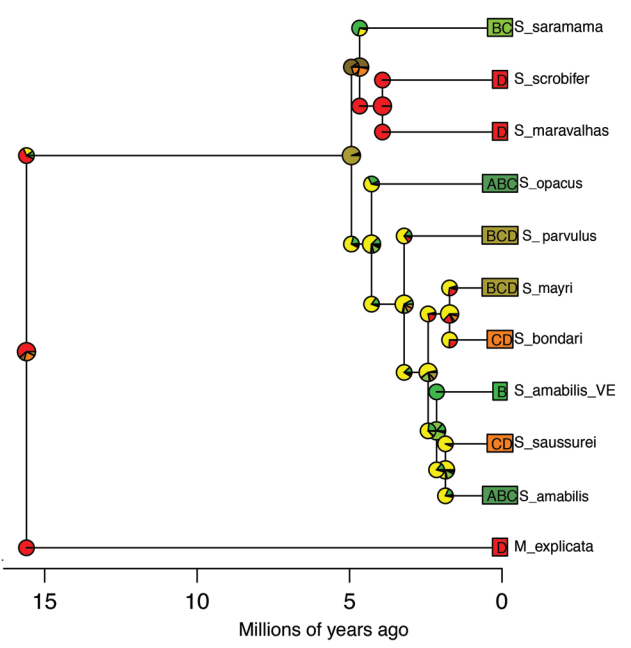


Fig. S1: Results of all BioGeoBEARS analyses. (a) BioGeoBEARS results for DEC and DEC+J.

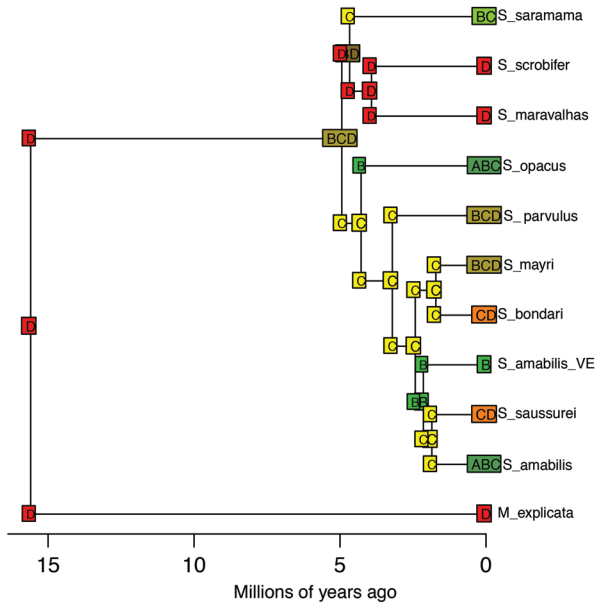
BioGeoBEARS DIVALIKE on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.1618$; $e=0$; $j=0$; $\text{LnL}=-27.90$



BioGeoBEARS DIVALIKE on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.1618$; $e=0$; $j=0$; $\text{LnL}=-27.90$



BioGeoBEARS DIVALIKE+J on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.147$; $e=0$; $j=0.1909$; $\text{LnL}=-26.87$



BioGeoBEARS DIVALIKE+J on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.147$; $e=0$; $j=0.1909$; $\text{LnL}=-26.87$

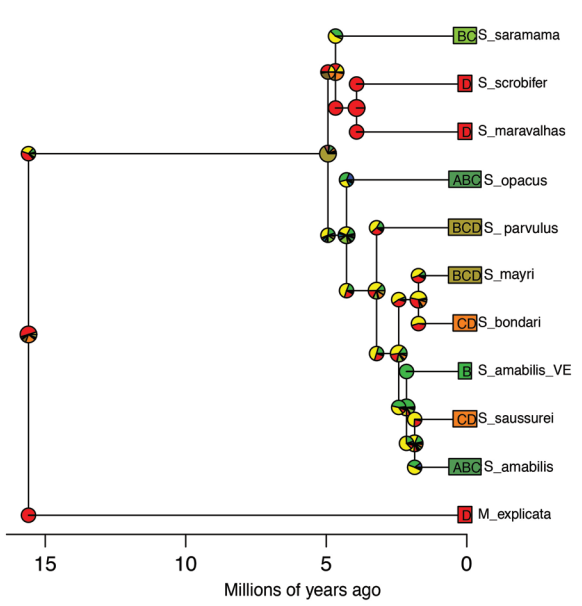
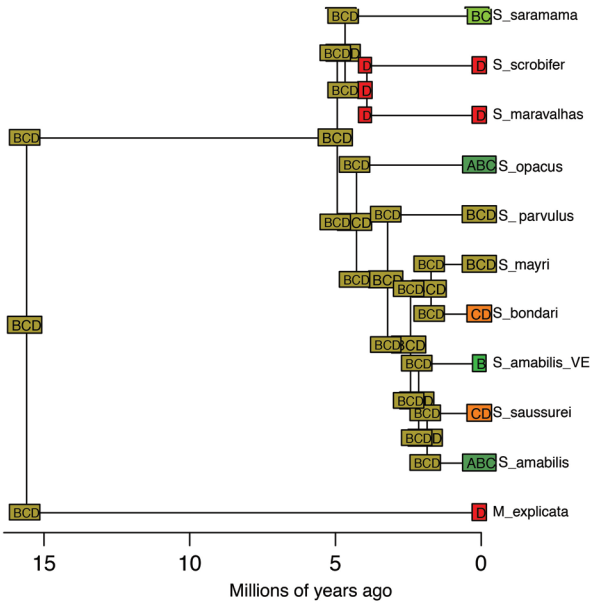
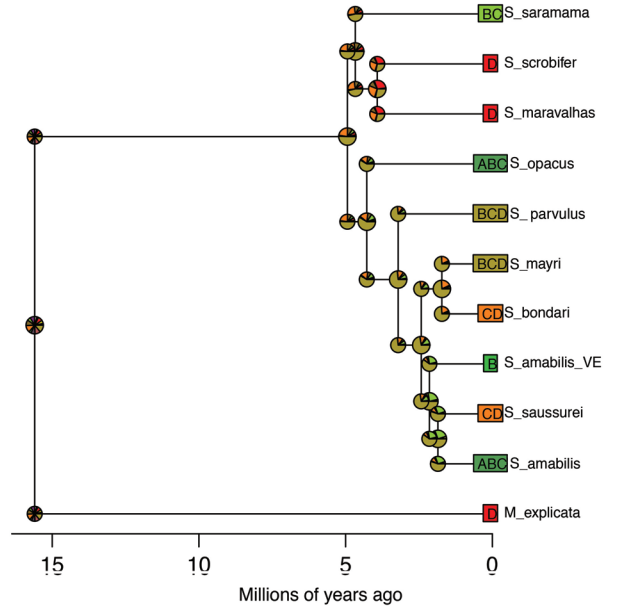


Fig. S1: Results of all BioGeoBEARS analyses. (b) BioGeoBEARS results for DIVALIKE and DIVALIKE+J.

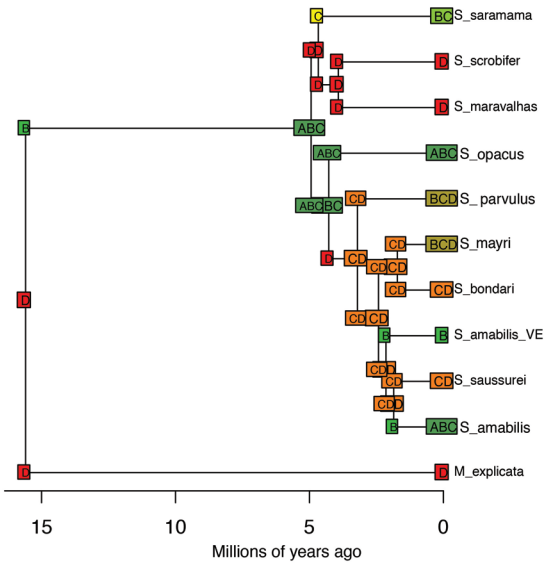
BioGeoBEARS BAYAREALIKE on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.1837$; $e=0.1346$; $j=0$; $\text{LnL}=-26.84$



BioGeoBEARS BAYAREALIKE on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.1837$; $e=0.1346$; $j=0$; $\text{LnL}=-26.84$



BioGeoBEARS BAYAREALIKE+J on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.1312$; $e=0.0379$; $j=0.4118$; $\text{LnL}=-26.03$



BioGeoBEARS BAYAREALIKE+J on Sericomyrmex
 ancstates: global optim, 3 areas max. $d=0.1312$; $e=0.0379$; $j=0.4118$; $\text{LnL}=-26.03$

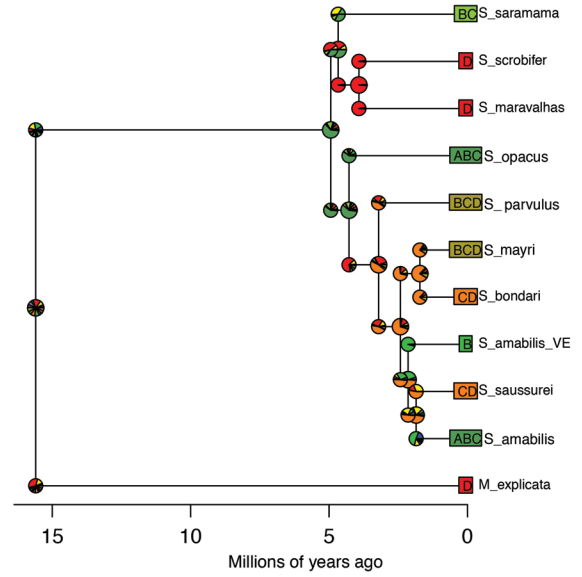


Fig. S1: Results of all BioGeoBEARS analyses. (c) BioGeoBEARS results for BAYAREALIKE and BAYAREALIKE+J.

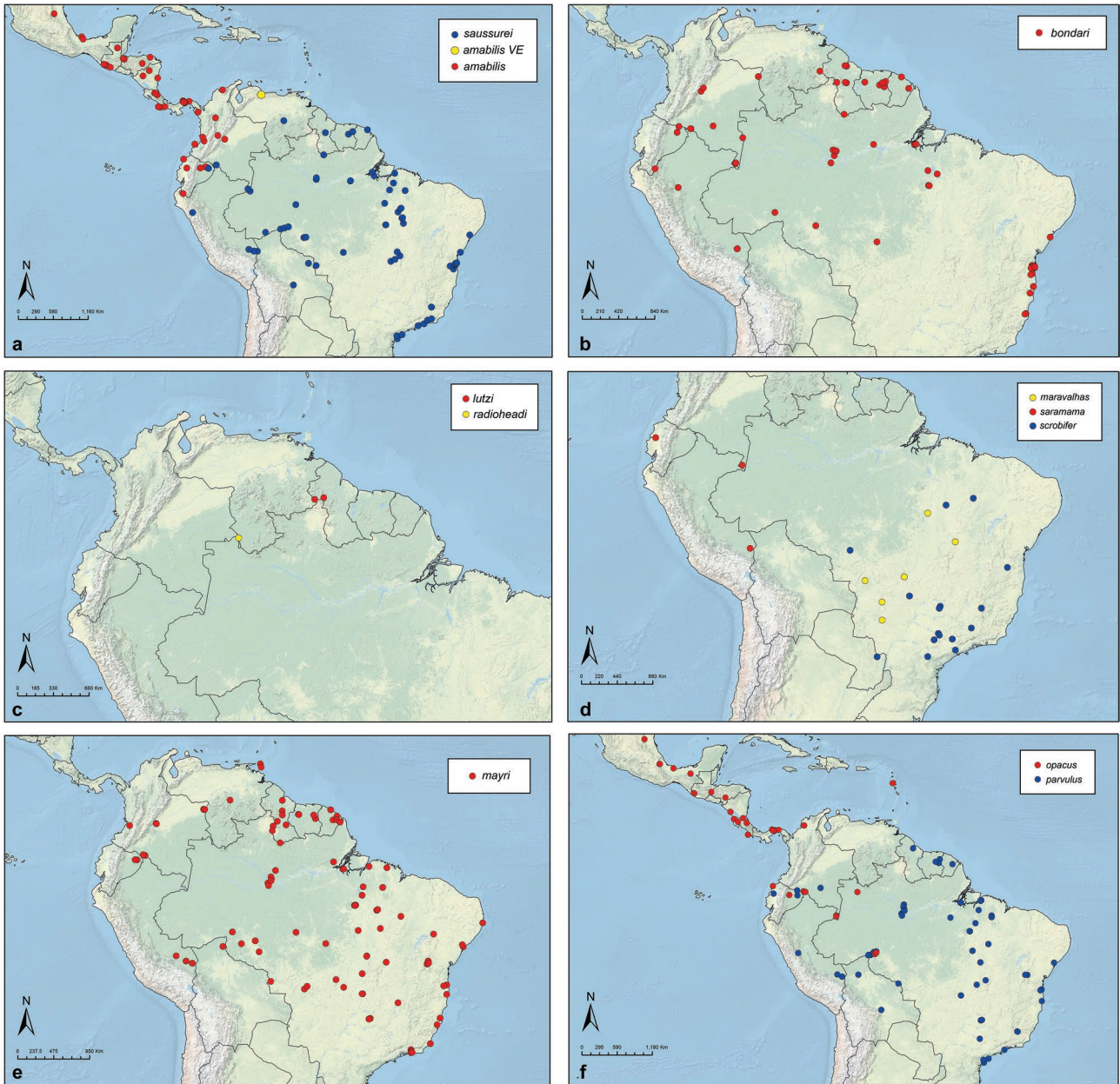


Fig. S2: Distribution maps of *Sericomymex* species. (a) *Sericomymex amabilis* and *S. saussurei*; (b) *S. bondari*; (c) *S. lutzi* and *S. radioheadi*; (d) *S. maravalhas*, *S. saramama*, and *S. scrobifer*; (e) *S. mayri*; (f) *S. opacus* and *S. parvulus*.



Fig. S3: Images of a captive *Sericomyrmex mayri* in the Smithsonian AntLab, collected in Brazil, Pará, Parauapebas, Floresta Nacional de Carajás (Collection code: AJ141004-01).