

Description of Additional Supplementary files

File name: Supplementary Data 1

Description: Measured data of stems of Carboniferous arborescent lycopsids used in Fig. 5. Measurements are in millimeters, and were made from Eggert (1961). Only specimens with measurable pith diameter are included. Dxylem indicating the diameter of xylem, and dpith indicating the diameter of pith.

File name: Supplementary Data 2

Description: Measured data of stems of Devonian arborescent lycopsids used in Fig. 5. Measurements are in long axis (average). Dxylem indicating the diameter of xylem, and dpith indicating the diameter of pith.

File name: Supplementary Data 3

Description: Data matrix for the phylogenetic analyses used in Fig. 6.