

BOX 7

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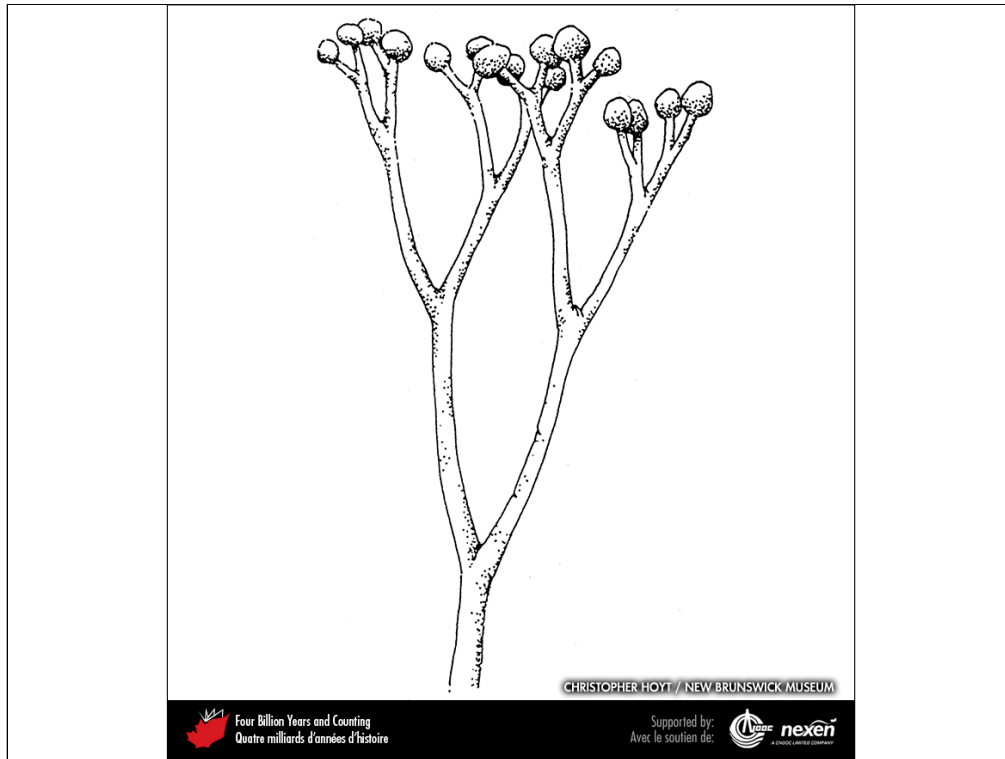
A receptaculitid from the Ordovician Tyndall Stone (Chapter 8). Receptaculitids may represent an extinct type of calcareous alga. ROB FENSOME, SPECIMEN COURTESY OF THE UNIVERSITY OF SASKATCHEWAN.

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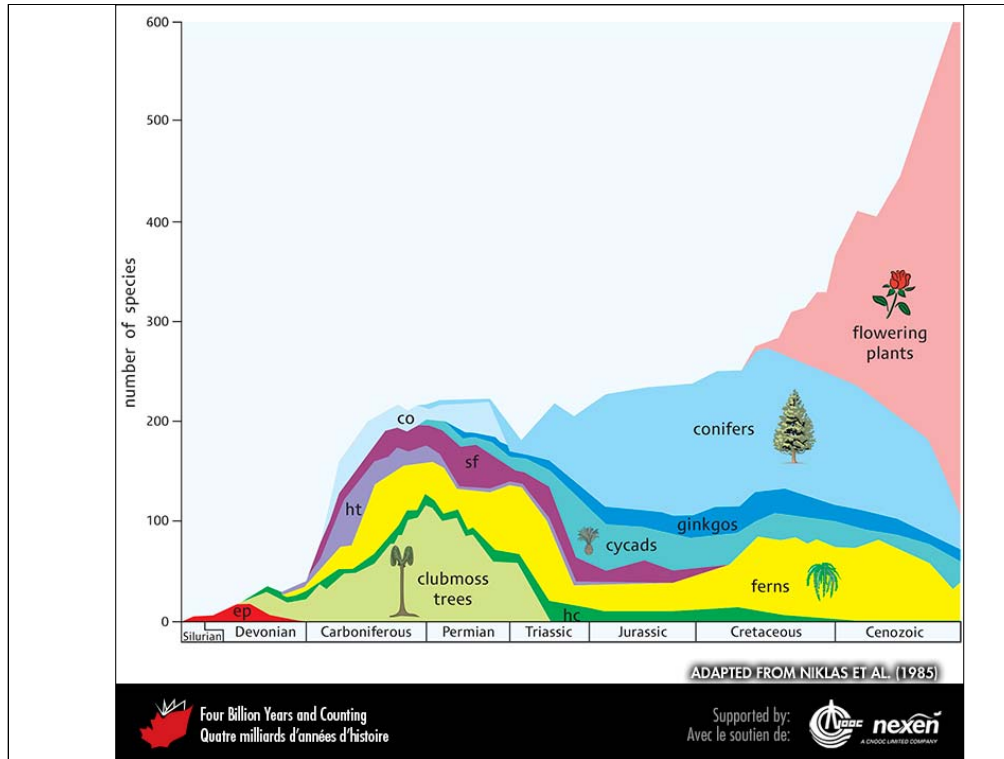
Cross-section of the stem of a Devonian plant akin to *Psilophyton*, an early tracheophyte from Dalhousie Junction, New Brunswick. PATRICIA GENSEL.

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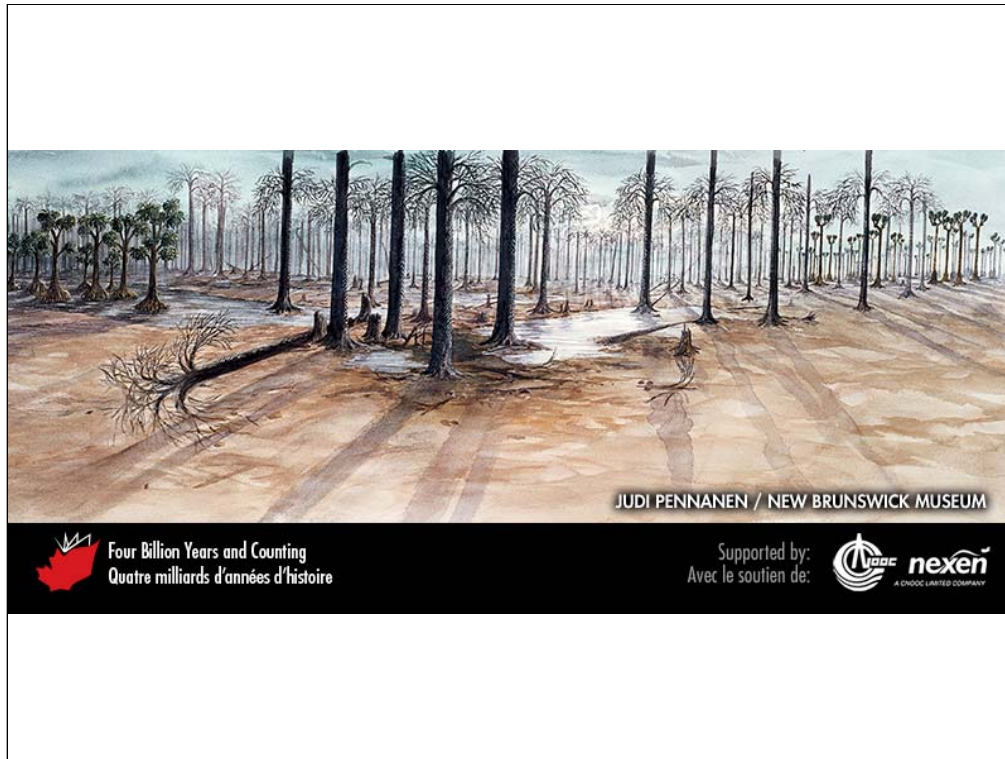
Sketch of *Cooksonia*, an early vascular plant found in Devonian strata at Dalhousie Junction, New Brunswick. CHRISTOPHER HOYT AND THE NEW BRUNSWICK MUSEUM.

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Distribution of the main groups of vascular plants through time. Abbreviations: co = cordaites, ep = early plants, hc = herbaceous clubmosses, ht = horsetails, and sf = seed ferns. ADAPTED FROM NIKLAS ET AL. (1985).

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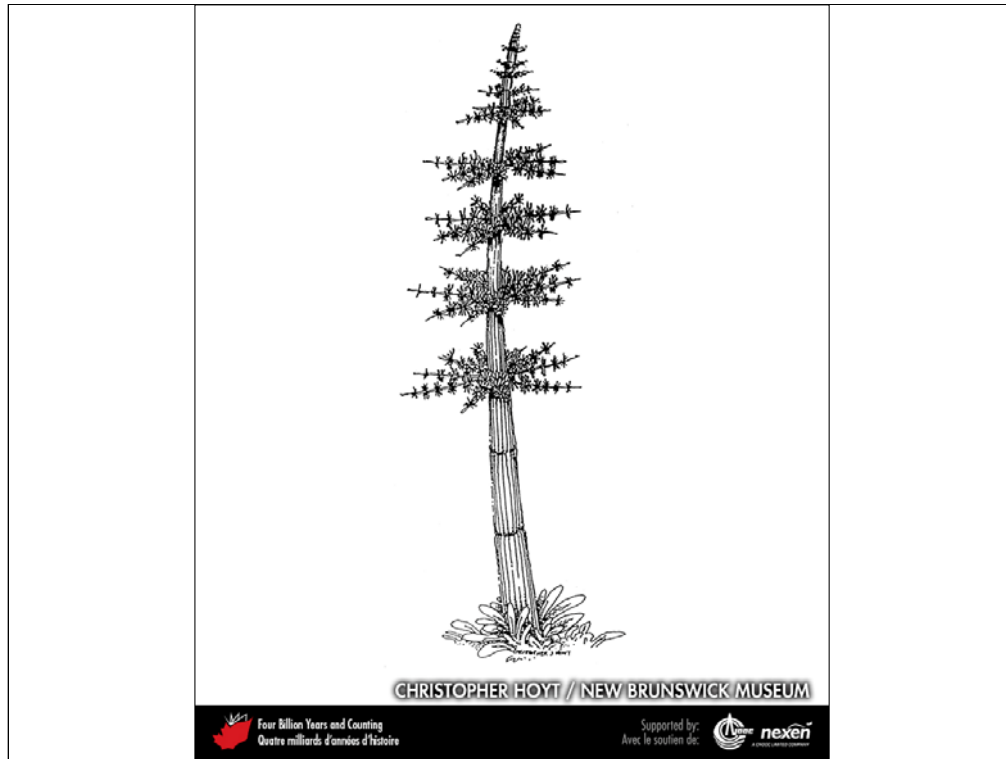
Scene from a late Carboniferous forest. The dominant trees are clubmosses, with many specimens of *Lepidodendron* (centre) and, in the distance at right, *Sigillaria*. To the left is a grove of the early gymnosperm *Cordaites*. PAINTING BY JUDI PENNANEN, COURTESY OF THE NEW BRUNSWICK MUSEUM.

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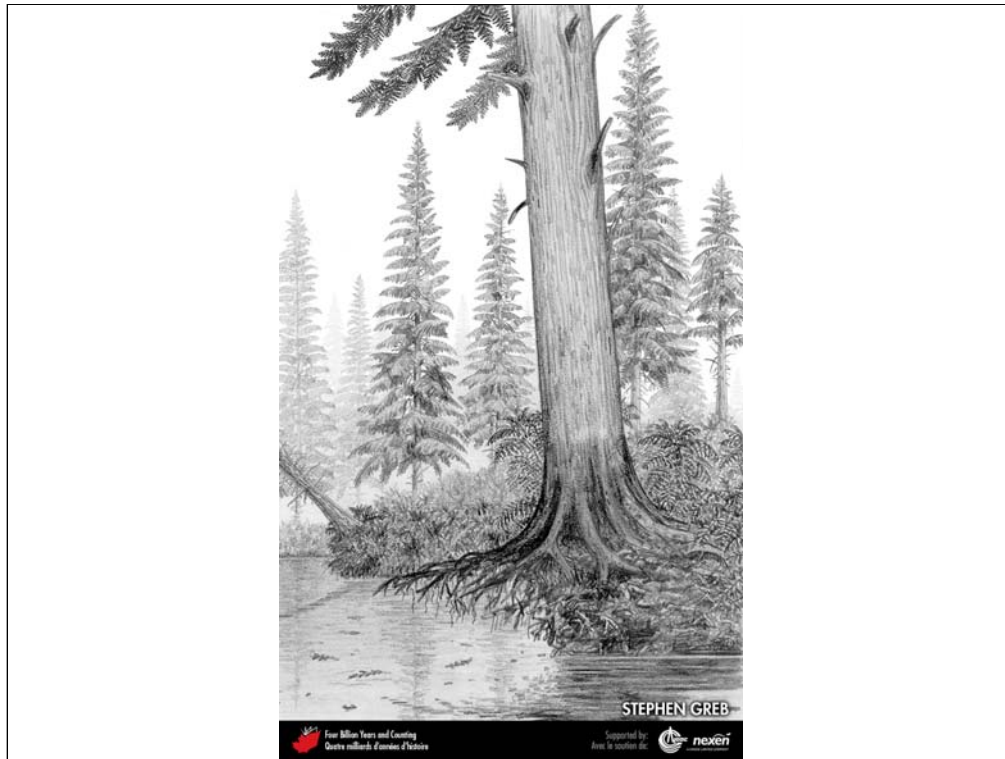
Whorl-shaped leaves known as *Asterophyllites* represent the foliage of the fossil horsetail, *Calamites*. Several branches with leaves are preserved in this specimen from Minto, New Brunswick. HEINZ WIELE, COURTESY OF THE ATLANTIC GEOSCIENCE SOCIETY; SPECIMEN COURTESY OF THE NEW BRUNSWICK MUSEUM.

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Sketch of the horsetail tree *Calamites*. CHRISTOPHER HOYT AND THE NEW BRUNSWICK MUSEUM.

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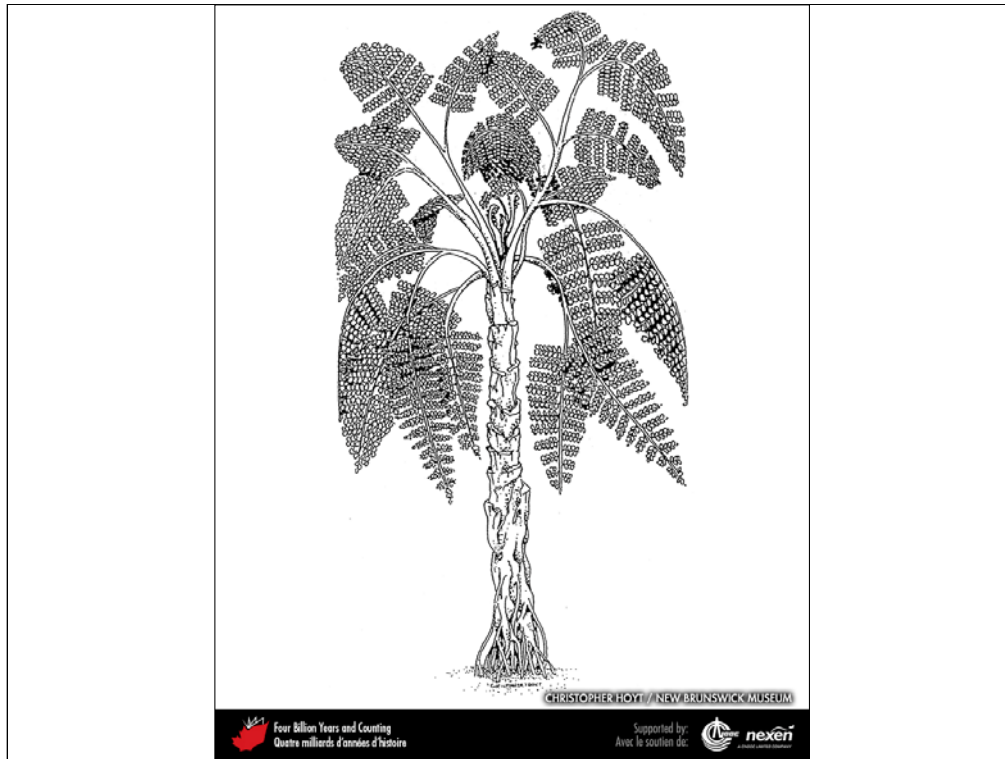
Archaeopteris is among the earliest known plants to have had wood, the evolution of which gave rise to trees and the first forests. *Archaeopteris* has been found in late Devonian strata, for example, at Miguasha, Quebec, and in the Canadian Arctic. STEPHEN GREB.

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Reconstruction of the clubmoss tree *Sigillaria*. ANDREW MACRAE.

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Some early seed plants, such as *Medullosa*, resembled ferns but reproduced with seeds; hence they are known as seed ferns. CHRISTOPHER HOYT AND THE NEW BRUNSWICK MUSEUM.

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Leaves and cones of the gymnosperm *Cordaites*, a widespread form in Late Carboniferous nonmarine strata of the Maritimes Basin (Chapter 8). CHRISTOPHER HOYT AND THE NEW BRUNSWICK MUSEUM.

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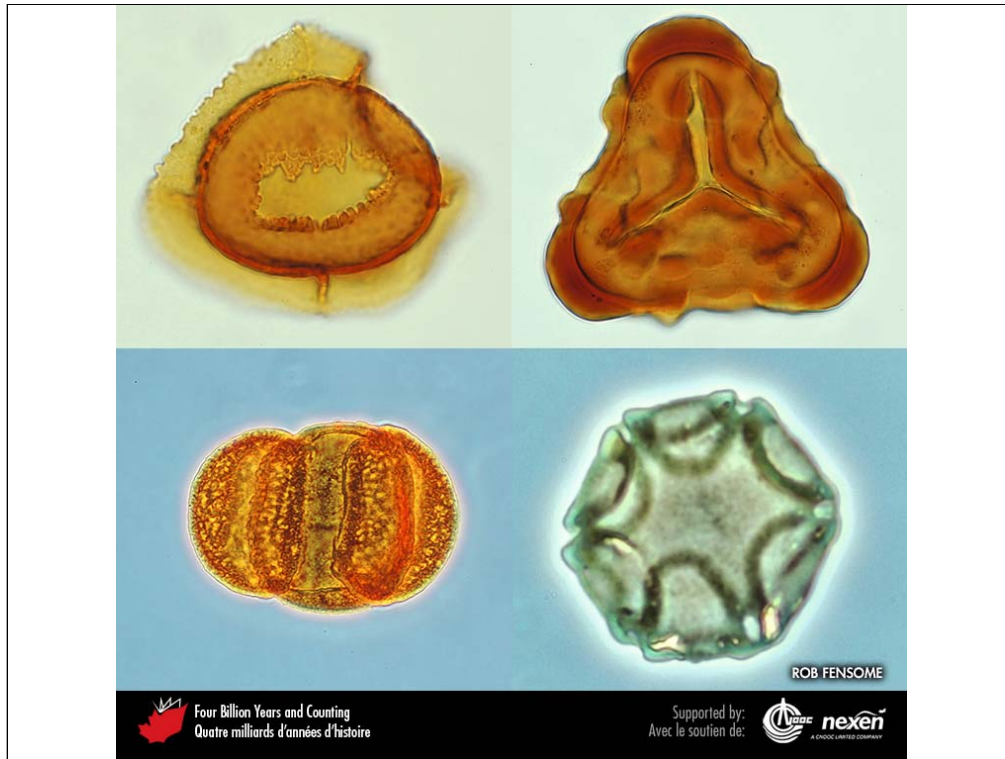
A spruce cone from Eocene fluvial deposits on Axel Heiberg Island, Nunavut. BEN LEPAGE.

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Flower calyx of *Florissantia quilchenensis* from Eocene lake deposits at Quilchena, British Columbia. ROLF MATHEWES.

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Microscopic spores and pollen are far more common as fossils in many sedimentary rocks than larger plant fossils such as leaves and stems. Spores and pollen have played a significant role in dating rocks, unravelling past environments and revealing plant evolution. These artificially stained examples from Atlantic Canada are a Cretaceous liverwort spore (top left), a Cretaceous fern spore (top right), a Tertiary conifer pollen grain (bottom left), and a Tertiary angiosperm pollen grain (bottom right). ROB FENSOME.

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