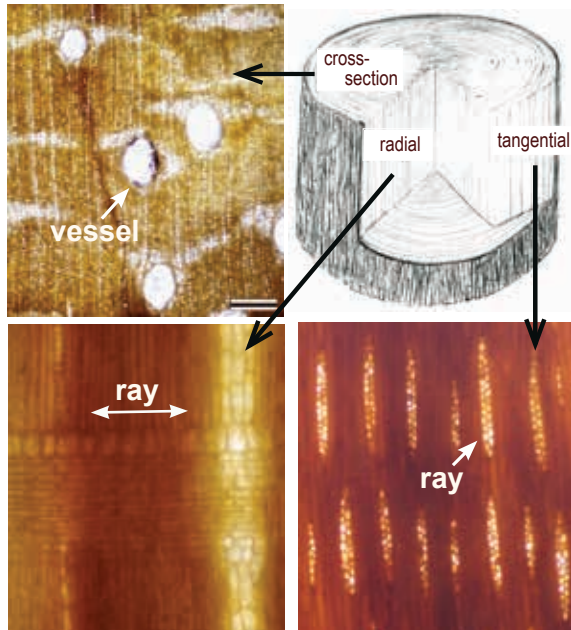


Diversity of Fossil Woods

Over 40 species of plants can be recognized among the permineralized specimens. All are flowering plants (Angiosperms), the largest and most diverse group of plants living currently. Two broad categories can be distinguished based on the anatomy.

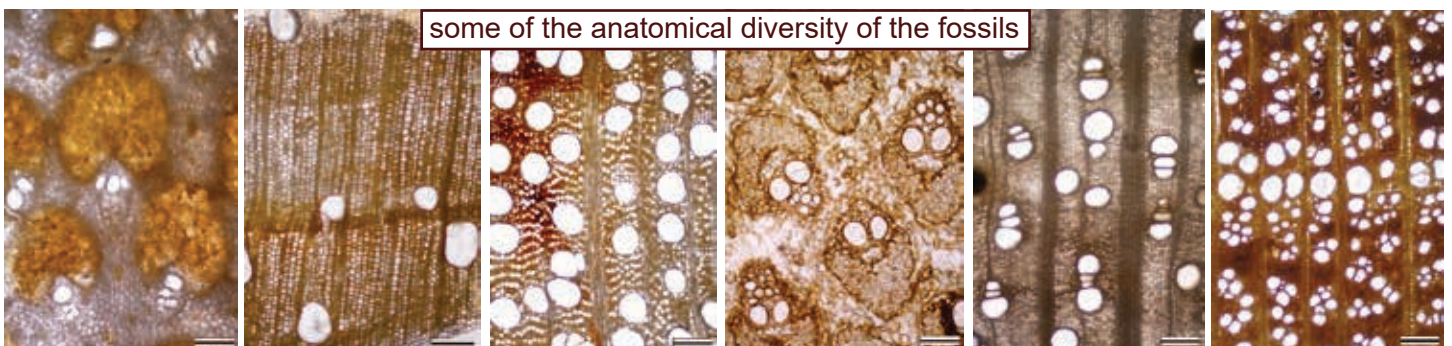
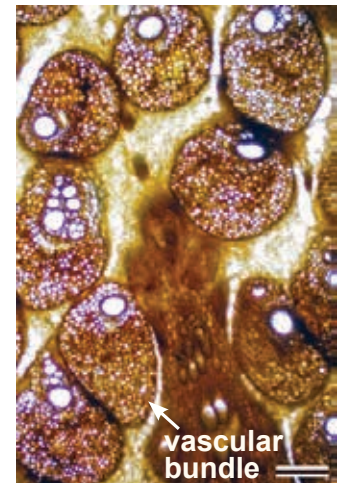
Home



The majority of species have wood made up of vessels, fibers, and rays. The microscope sections on the left show a wood with large, widely spaced vesels (cross section) and rays arranged in a regular pattern (tangential section). The radial section shows a ray along its long side extending from the inside to the outside of the tree. The largest specimen in the fossil forest (below), with a trunk 0.75 m in diameter and more than 10 m long, has wood of this type. Scale is 0.25 mm.



About one-third of the species have water-conducting elements (vessels or xylem) in vascular bundles, as in the cross section on the right. In fossils of this type (monocots), surface features are often present that can aid in distinguishing species. The specimen on the left has persistent leaf bases whereas the one on the far left is smooth and has leaf scars. Both are palms.



Fossil wood only tells part of the story. Learn more by reading about the fossil leaves of Sexi.

Eocene Trees of the Piedra Chamana Petrified Forest, Sexi, Peru Árboles Eocenos del Bosque Petrificado Piedra Chamana, Sexi, Perú



Avicennia



Anacardium



Calycophyllum



Cariniana



Ceiba



Avicennia



Avicennia



Avicennia



Cynometra



Dodonaea



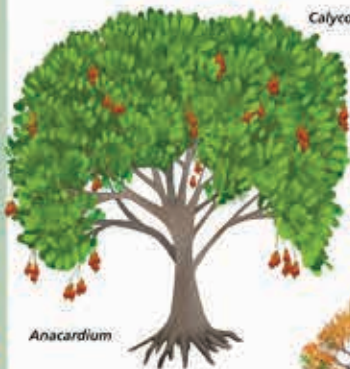
Hura



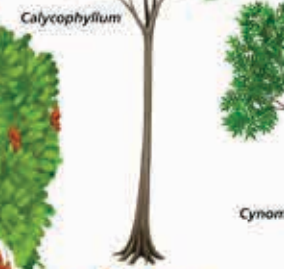
Ochroma



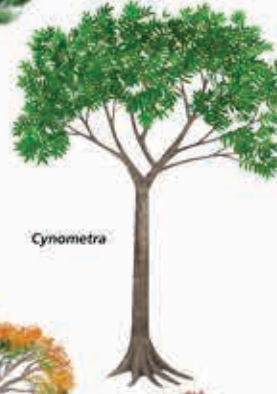
Sterculia
— 250µm



Anacardium



Calycophyllum



Cynometra



Cariniana



Ceiba



Ceiba



Dodonaea



Hura



Palmae



Palmae



Palmae



Ochroma



Sterculia



Palo Tendido-Cynometra



Avicennia leaf-hoja de *Avicennia*



Palm trunk-tronco de palmera