**Supplementary Materials Captions**

Supplemental Figure 1. Absolute AMS date graphs of three wood specimens

Supplemental Figure 2. Modern *Alnus acuminata* wood sample. (a) transverse x20, (b) tangential x20, and (c) radial x10 sections of the ridgepole wood with the following description.

Growth ring boundaries distinct, Wood diffuse-porous, Vessels in radial pattern, Vessels partly solitary, partly in radial multiples of 2-4, or very small clusters, Solitary vessel outline angular, Scalariform perforation plates with 10 - 20 bars, Intervessel pits alternate (small 4-7 μm), Vessel-ray pits with much reduced borders to apparently simple: pits horizontal (scalariform, gash-like) to vertical (palisade); Mean tangential diameter of vessel lumina (50 - 100 μm), >=100 vessels per square millimeter, Fibers with distinctly bordered pits, Non-septate fibers present, Fibers very thin-walled, Axial parenchyma absent or extremely rare, Axial parenchyma diffuse, Axial parenchyma unilateral paratracheal, Rays exclusively uniseriate, All ray cells procumbent.

Supplemental Figure 3. Modern *Escallonia myrtilloides* wood sample. (a) transverse x10, (b) tangential x20, and (c) radial x40 (c) sections of rafter wood.

Growth ring boundaries distinct, Wood semi-ring-porous, Vessels in radial pattern, Vessels exclusively solitary (90% or more), Solitary vessel outline angular, Scalariform perforation plates with 10 - 20 bars, Intervessel pits alternate (small 4 - 7 μm), Vessel-ray pits with distinct borders; similar to intervessel pits in size and shape throughout the ray cell, Vessel-ray pits restricted to marginal rows, Mean tangential diameter of vessel lumina (<= 50 μm), >= 100 vessels per square millimeter, Fibers with distinctly bordered pits, Fibers very thick-walled, Axial parenchyma diffuse, Axial parenchyma diffuse-in-aggregates, Ray width 1 to 3 cells, Body ray cells procumbent with 2-4 rows of upright and/or square marginal cells, Rays per millimeter (>= 12/mm).

Supplemental Figure 4. Modern *Buddleja longifolia* wood sample. (a) transverse x40, (b) tangential x10, (c) and radial x10 sections of purlin wood.

Growth ring boundaries indistinct or absent, Wood diffuse-porous, Vessels in

diagonal and/or radial pattern, Vessels in radial multiples of 4 or more common,

Intervessel pits alternate (small 4-7 μm), Vessel-ray pits with distinct borders

similar to intervessel pits in size and shape throughout the ray cell, Septate fibers

present, Mean tangential diameter of vessel lumina (50 - 100 μm), 40 - 100 vessels

per square millimeter, Fibers very thick-walled, Axial parenchyma diffuse, Ray width 1 to 3 cells, All ray cells procumbent.