

Tales that Tree Rings Tell



LABORATORY OF TREE-RING RESEARCH
UASCIENCE



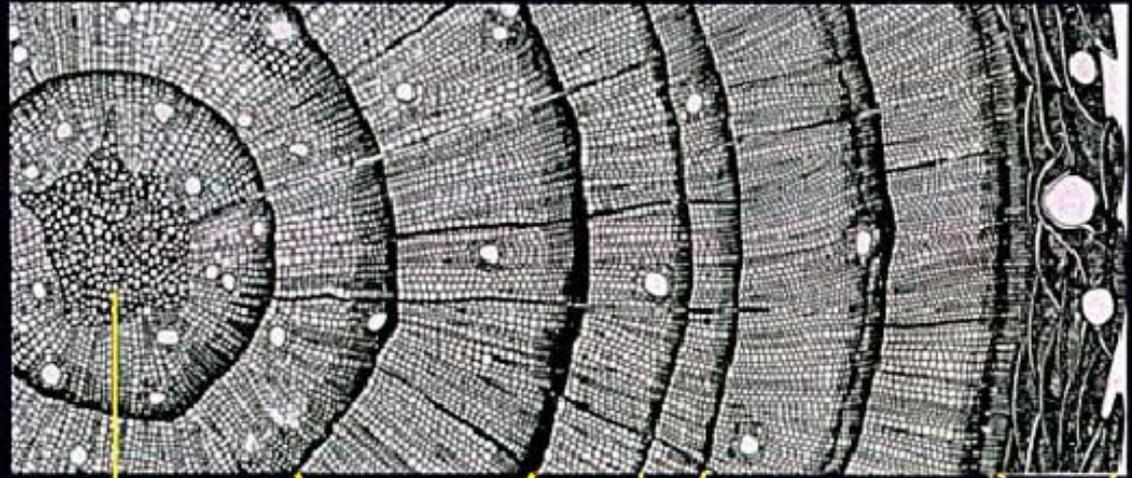
2012

1912



1885

Cross Section of a Conifer



Pith

Annual rings

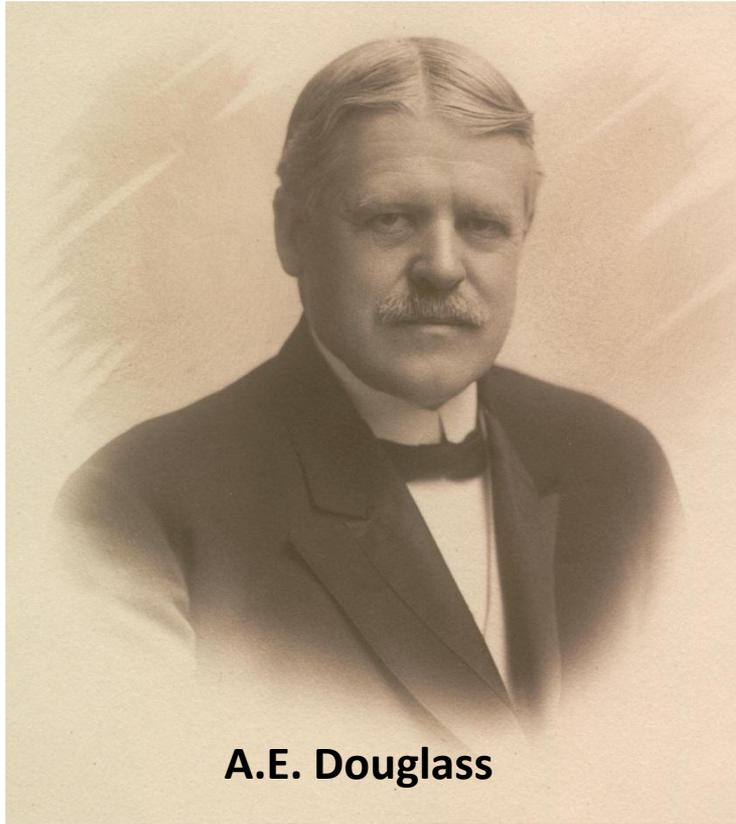
Bark

Wet years

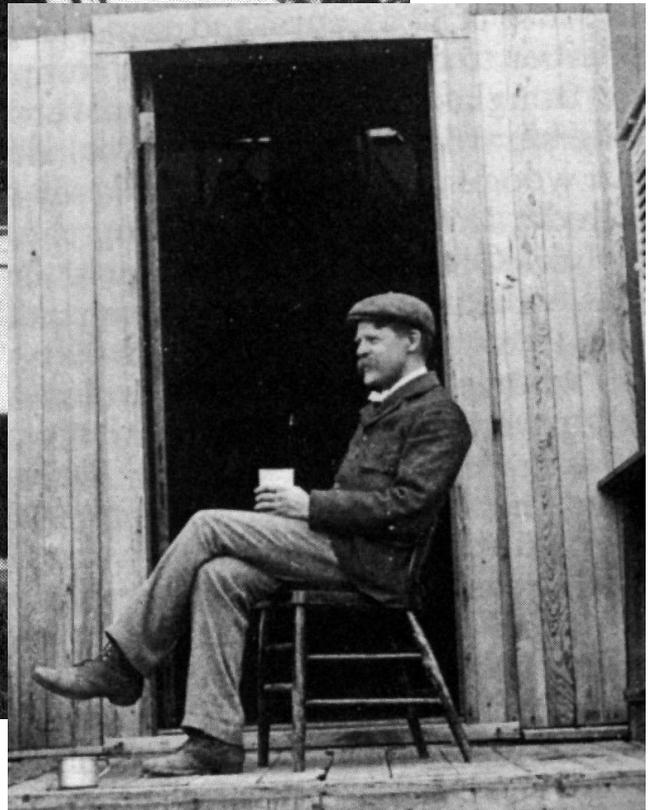
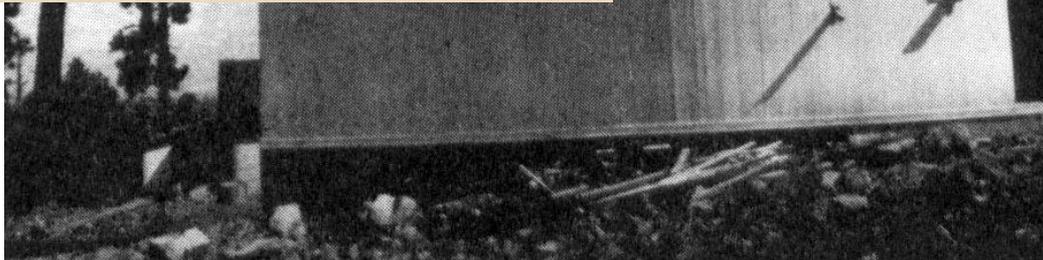


Dry years

Lowell Observatory, "Mars Hill", Flagstaff, Arizona circa 1894

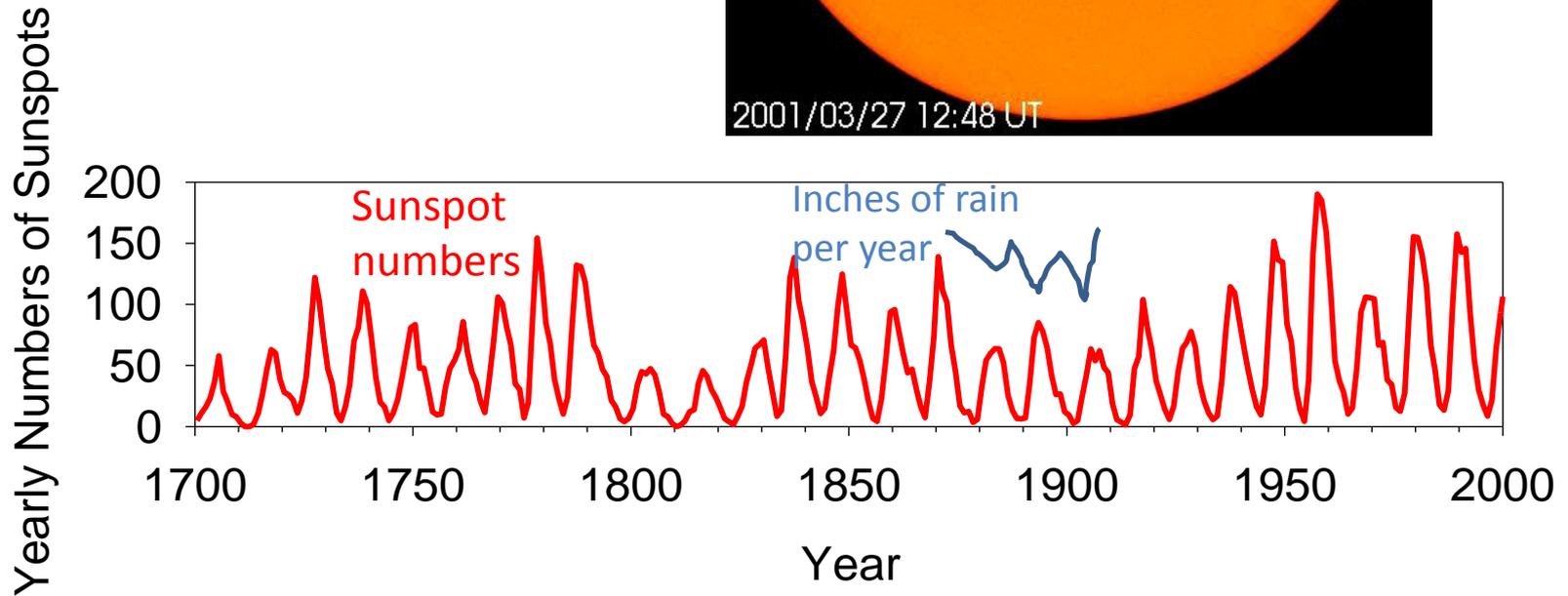
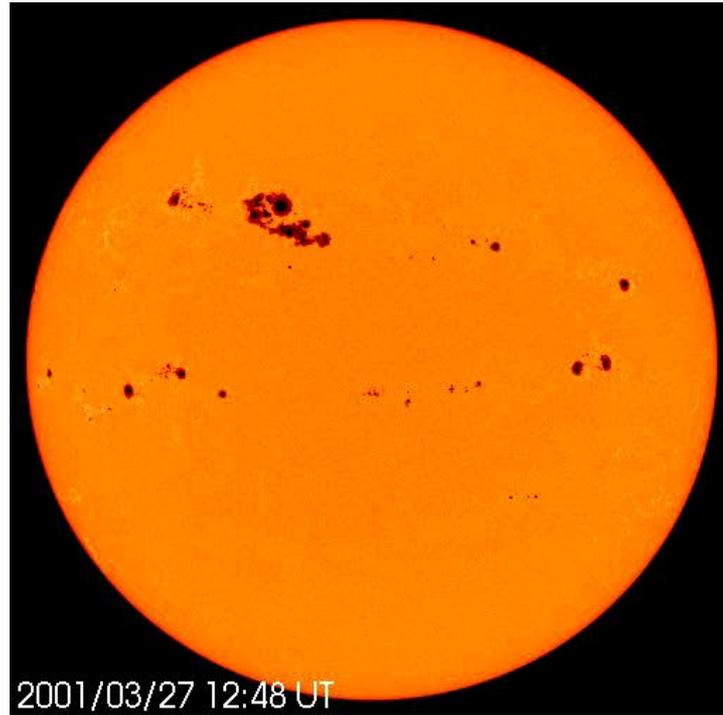


A.E. Douglass



Andrew Ellicott Douglass, on Mars Hill

How does the changing Sun affect the climate of the Earth?

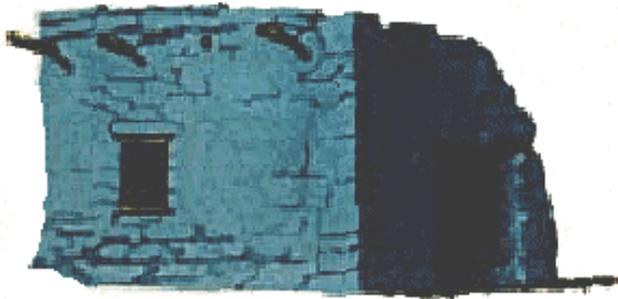


Silent film of A.E. Douglass from the National Geographic Society, circa 1930

Extracting the story
of a living pine tree.

Crossdating: Bridging Back in Time

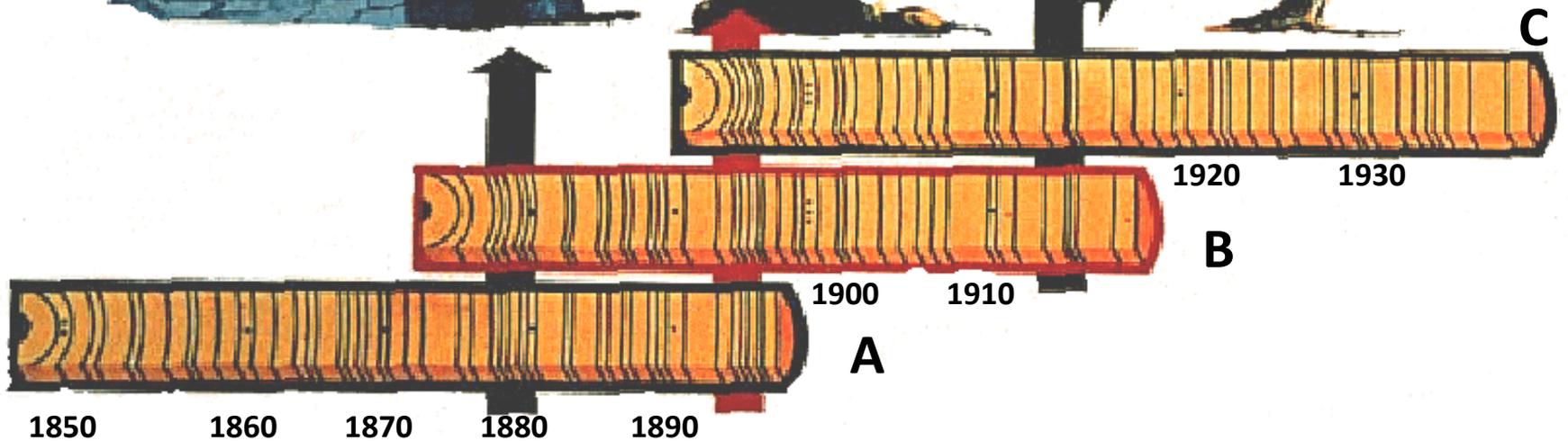
A. Dwelling with Wood Roof Beams



B. Dead Tree

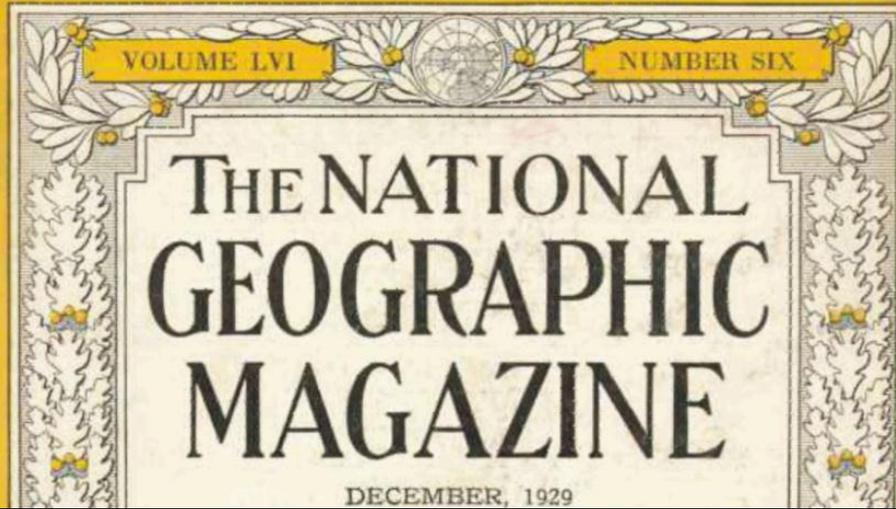
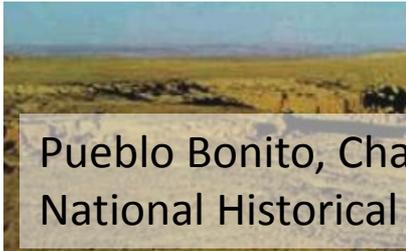


C. Living Tree

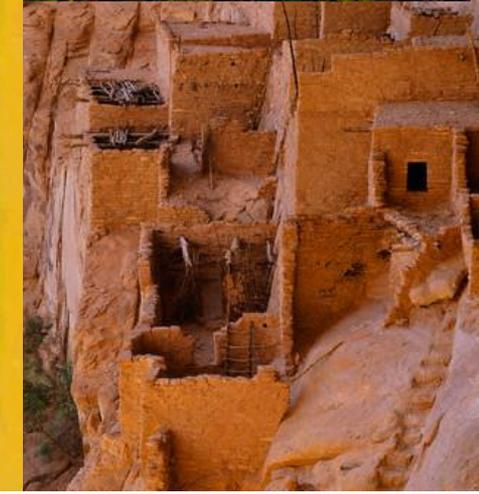
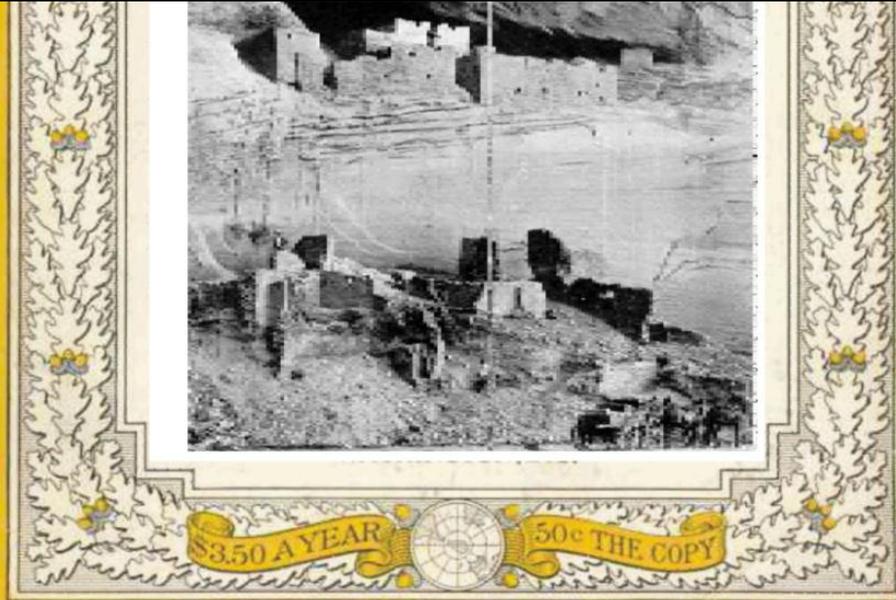


What happened to
go?

and where did they

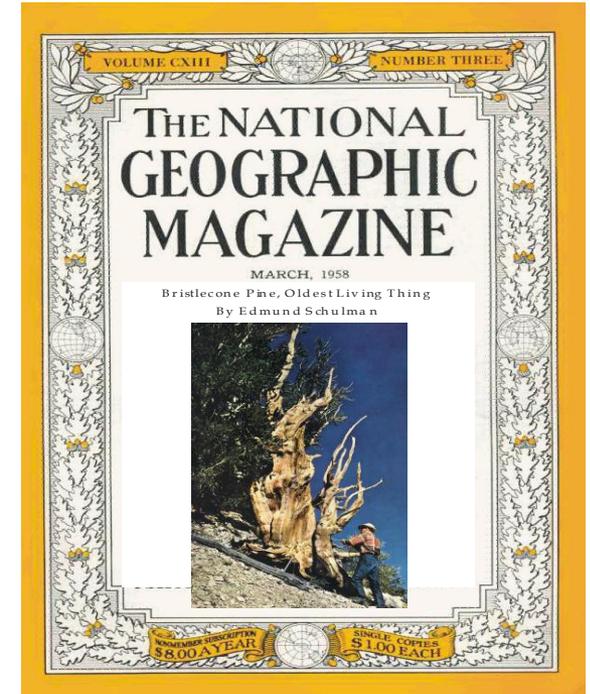


Secrets of the Southwest Solved by Talkative Tree Rings
By
Andrew Ellicott Douglass



Video clip from “Desert Speaks”,
KUAT, on Drought & Fire

March 1958
Bristlecone Pine: Oldest Living Thing
By
Edmund Schulman



Recent unprecedented tree-ring growth in bristlecone pine at the highest elevations and possible causes

Matthew W. Salzer^{a,1}, Malcolm K. Hughes^a, Andrew G. Bunn^b, and Kurt F. Kipfmüller^c

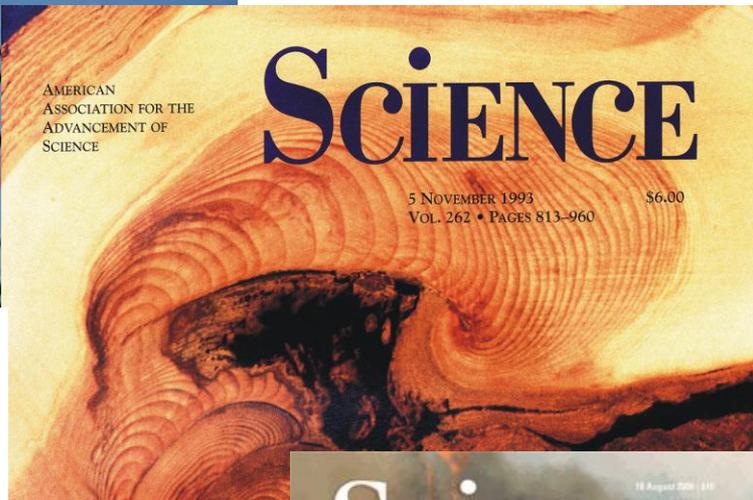
^aLaboratory of Tree-Ring Research, University of Arizona, Tucson, AZ 85721; ^bDepartment of Environmental Sciences, Western Washington University, Bellingham, WA 98225; and ^cDepartment of Geography, University of Minnesota, Minneapolis, MN 55455

Proceedings of the National Academy of Sciences, *December 1, 2009*, 106 (48) 20348-20353

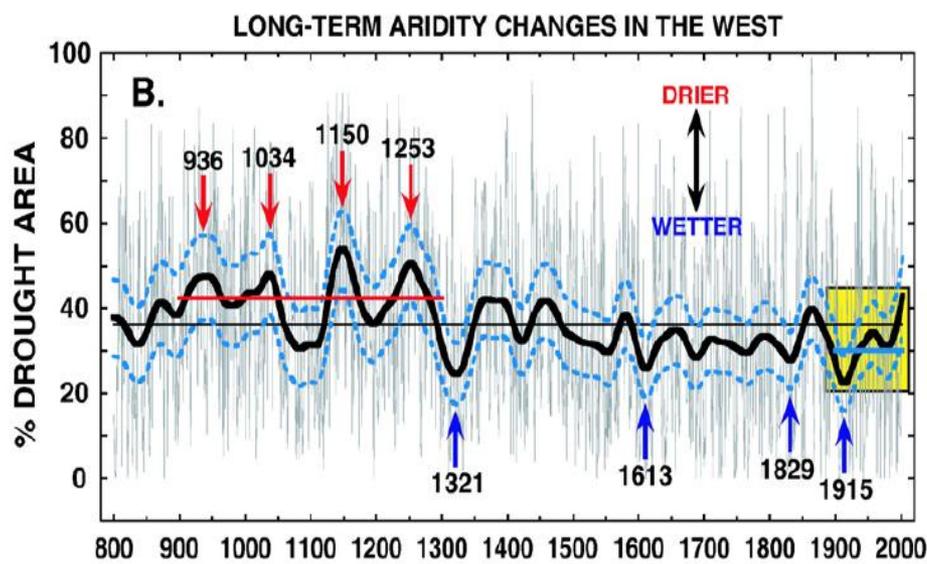


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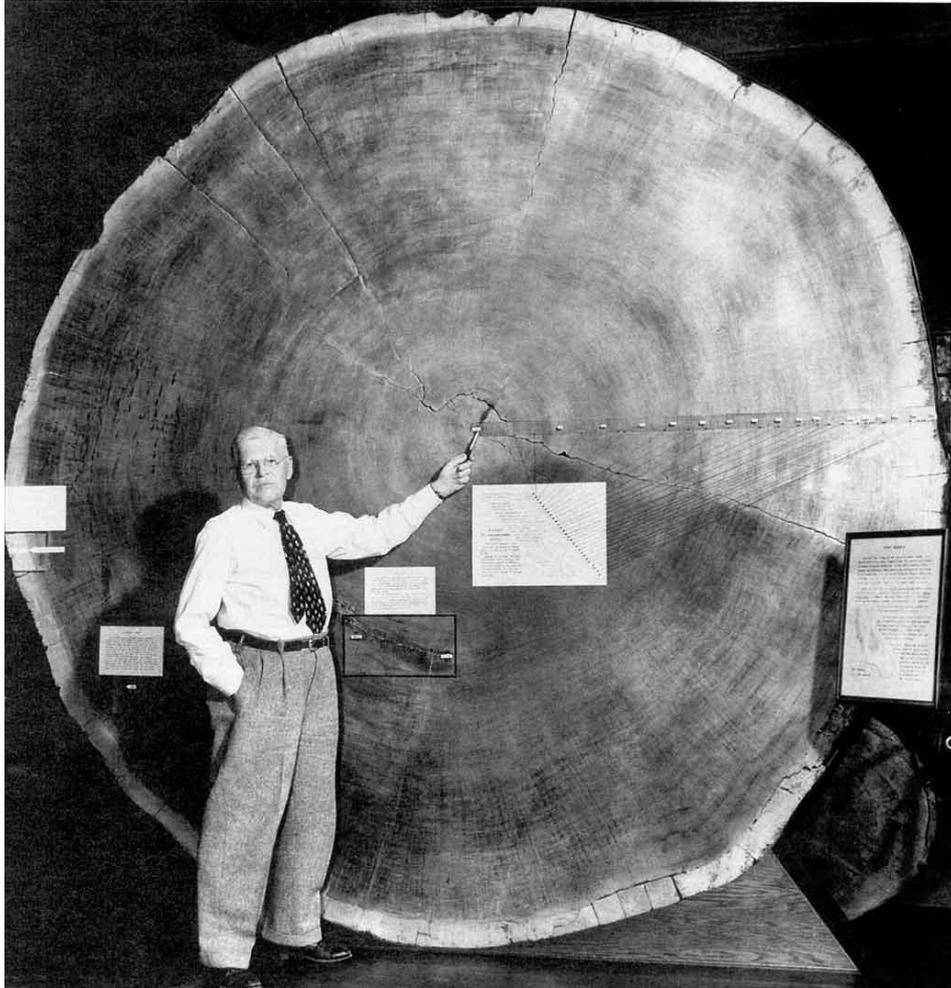
Colorado River Basin Water Management



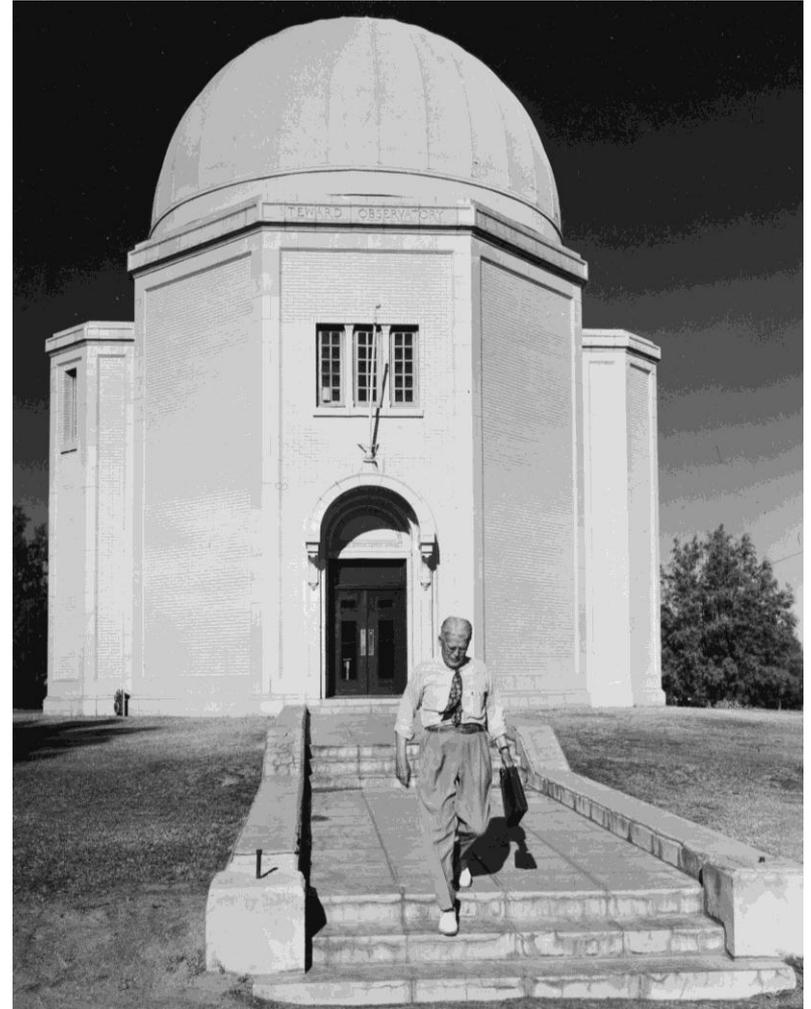
AAAS

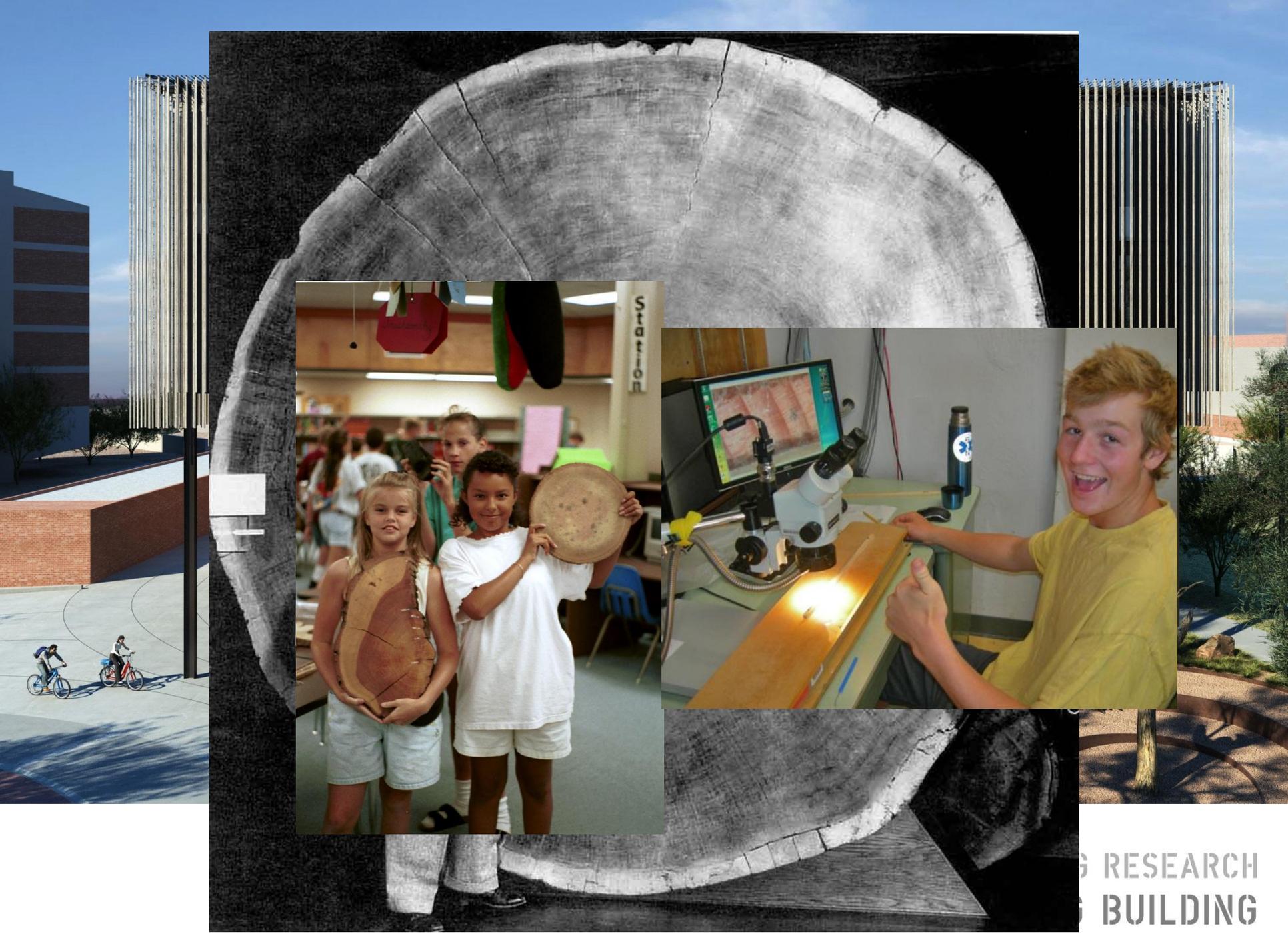
Tree Rings & Telescopes: Exemplars of UA Science

A.E. Douglass and 2,000 year old giant sequoia in Arizona State Museum



A.E. Douglass and Steward Observatory





RESEARCH
BUILDING

*"We all travel the
Milky Way together,
trees and men."*

John Muir

*Come and Visit the
Laboratory of Tree-
Ring Research!*

Time-lapse photo of an ancient
bristlecone pine tree and "star
rings", by Robert Kawika Sheer

