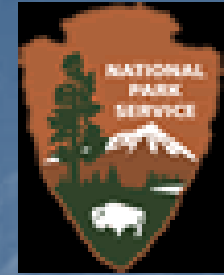
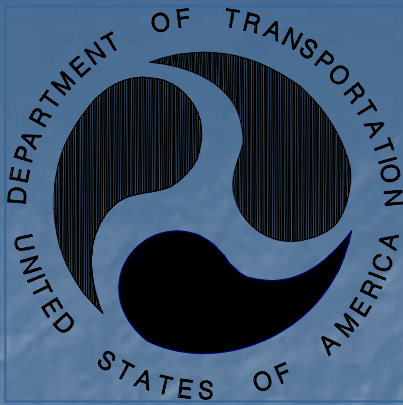


Geology of the Sylvan Pass Area

Craig S. Dewey, P.E. & L.E.G.



YNP—Sylvan Pass Study Group

January 2008





Yellowstone National Park

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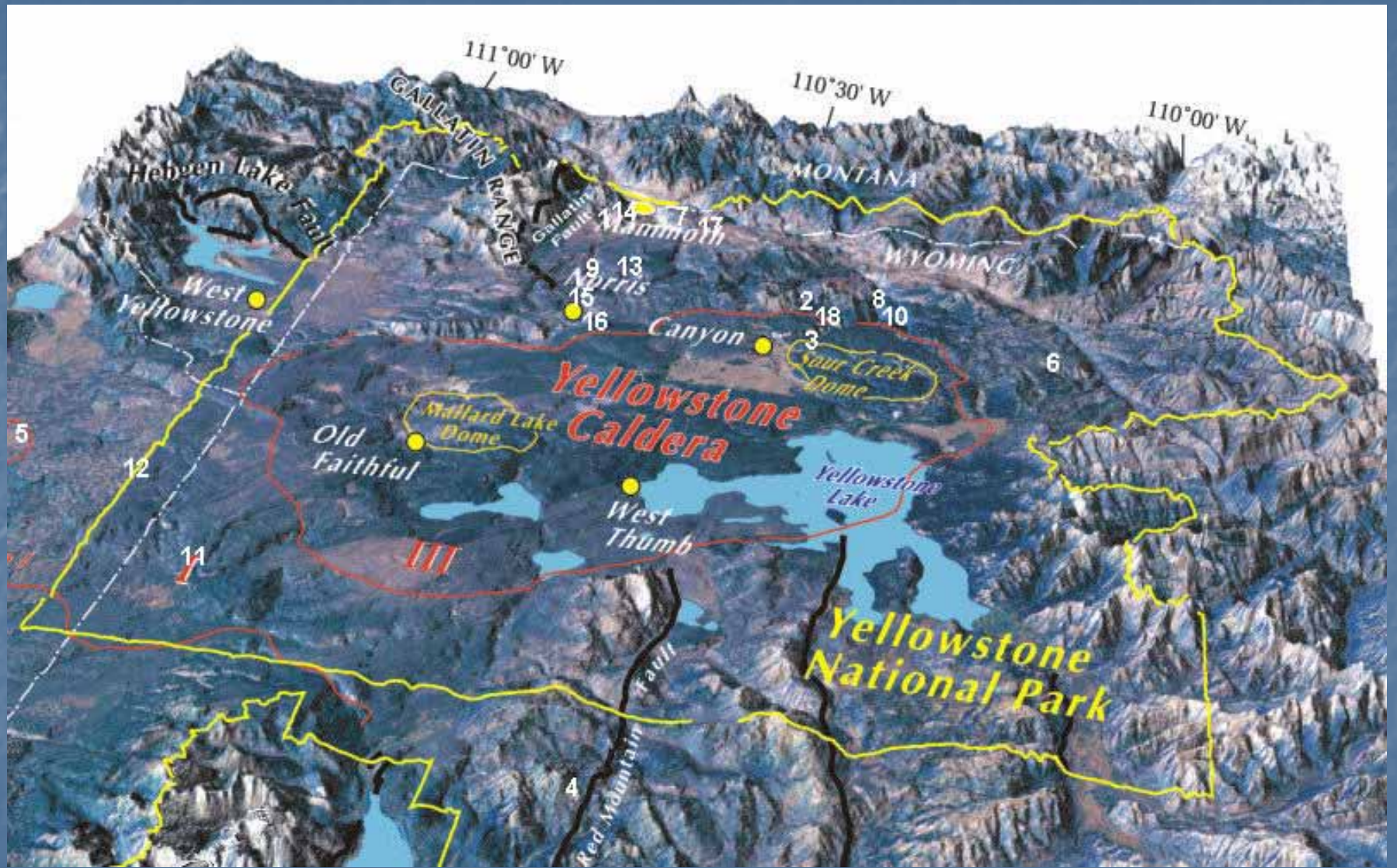
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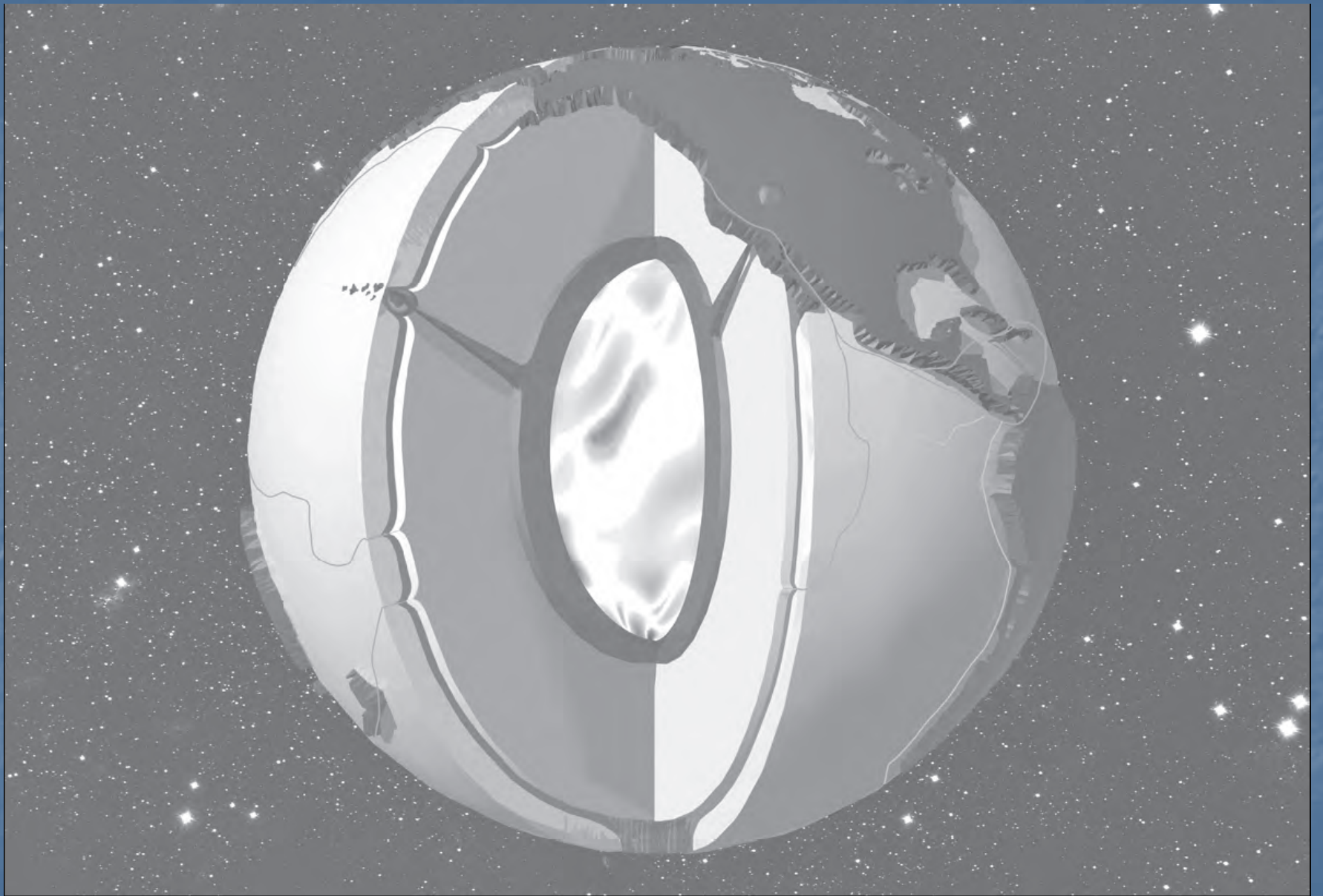
Pointer: 44°29'41.73" N 110°00'27.81" W elev: 1623 ft

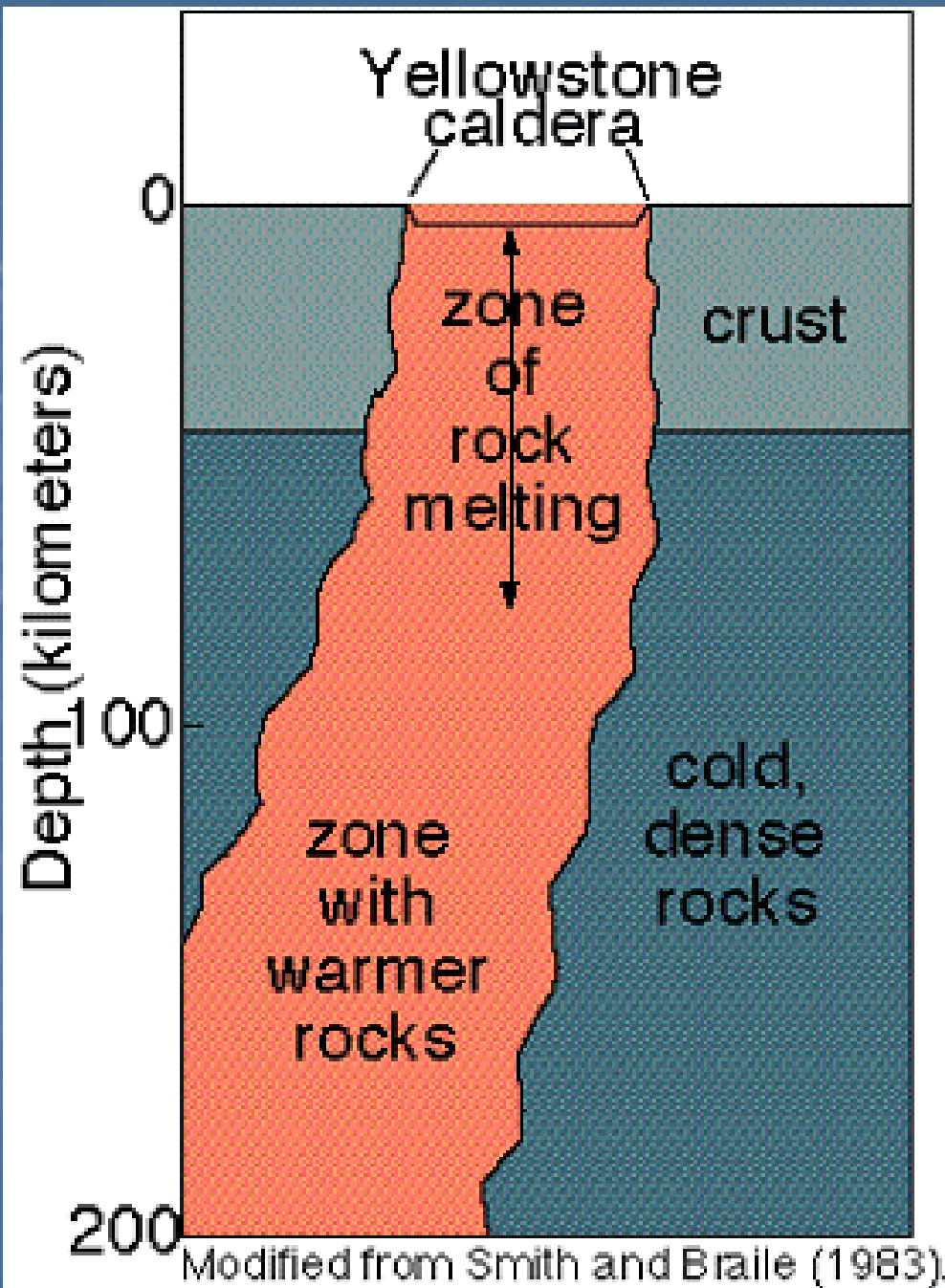
Eye alt: 65.48 mi



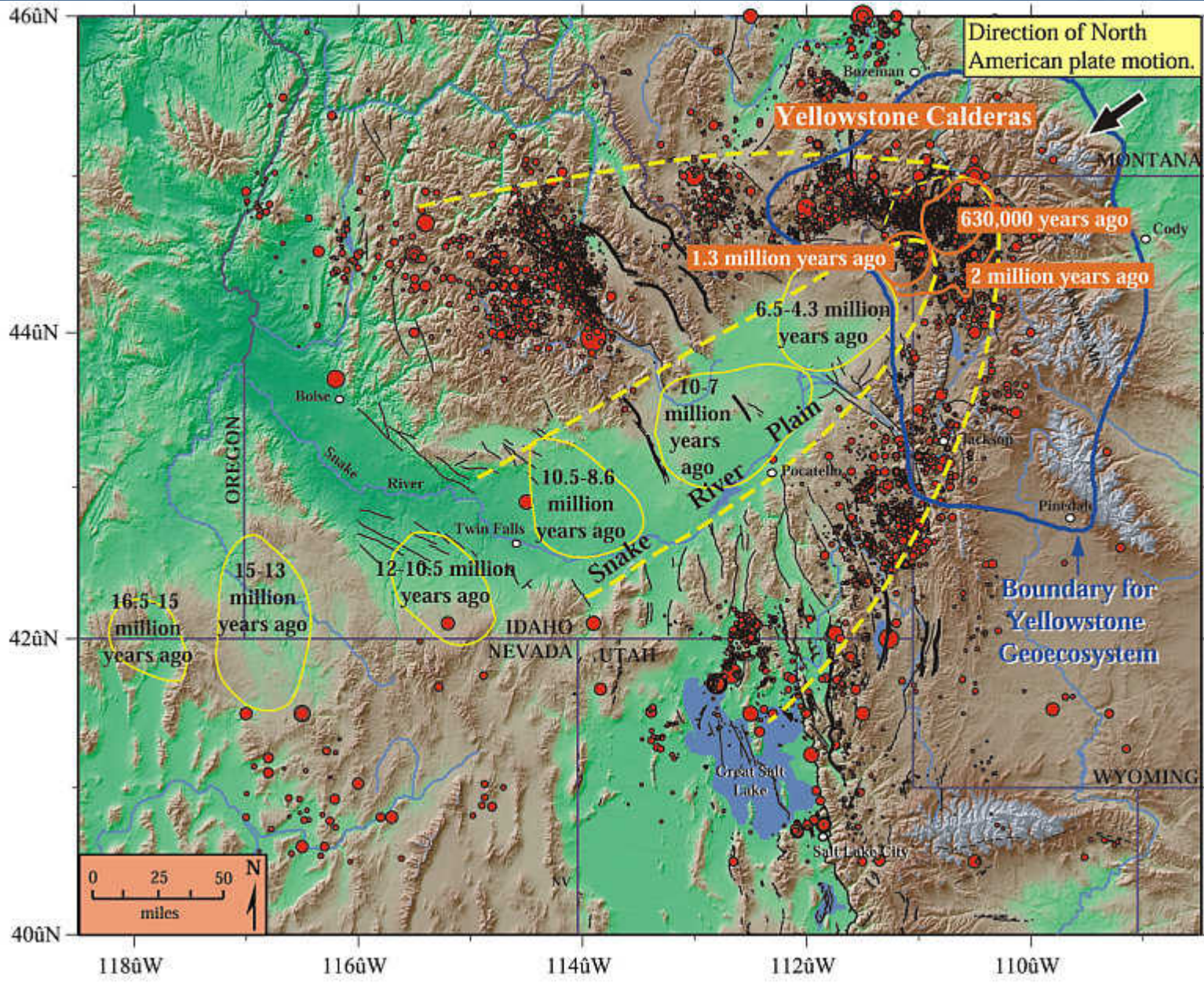


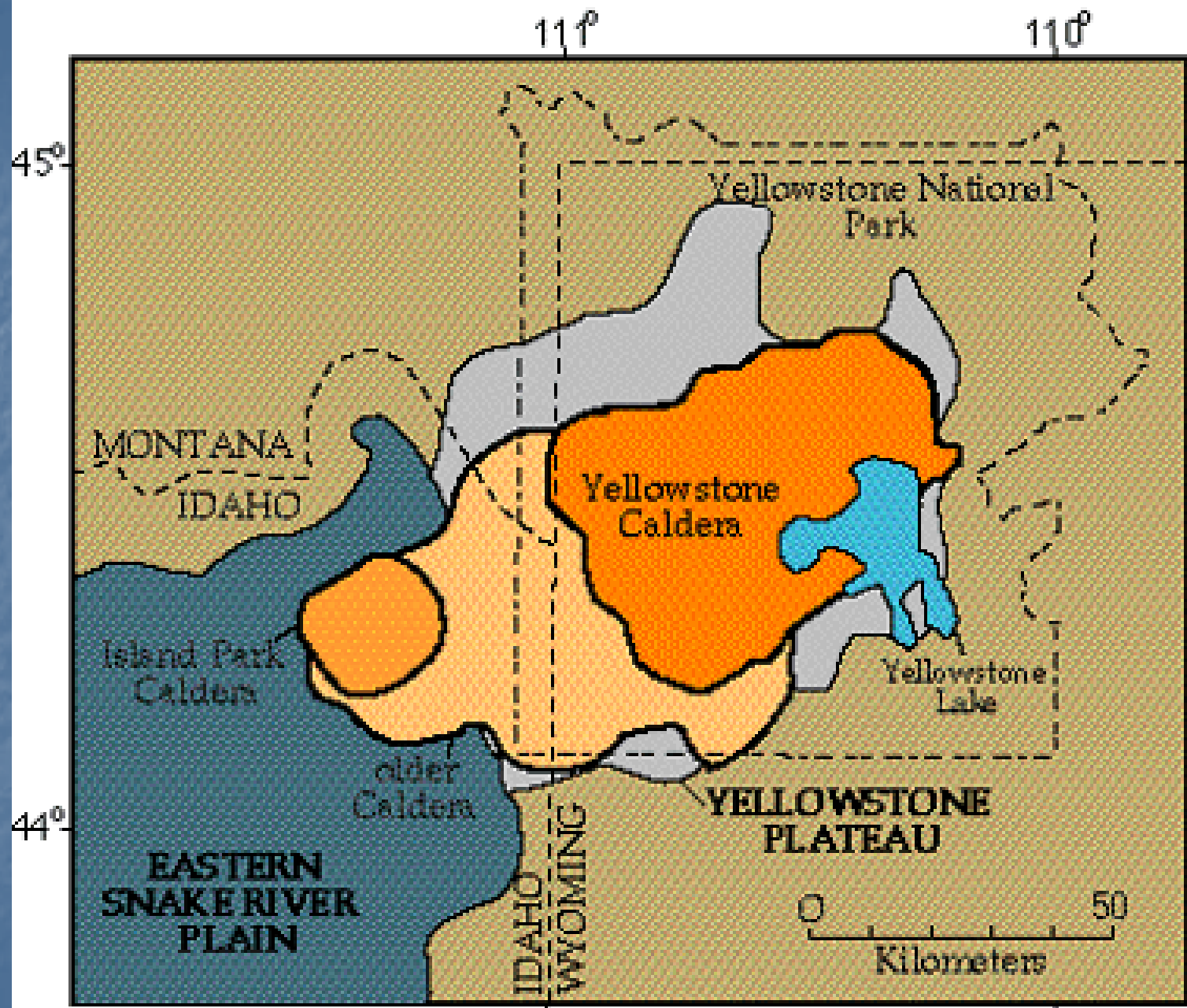






Modified from Smith and Braile (1983).





Giant Yellowstone Volcanic Eruptions

Yellowstone caldera, 2 million years ago, 600 cubic miles

Yellowstone caldera 630,000 years ago, 240 cubic miles

Island Park caldera 1.3 million years ago, 67 cubic miles

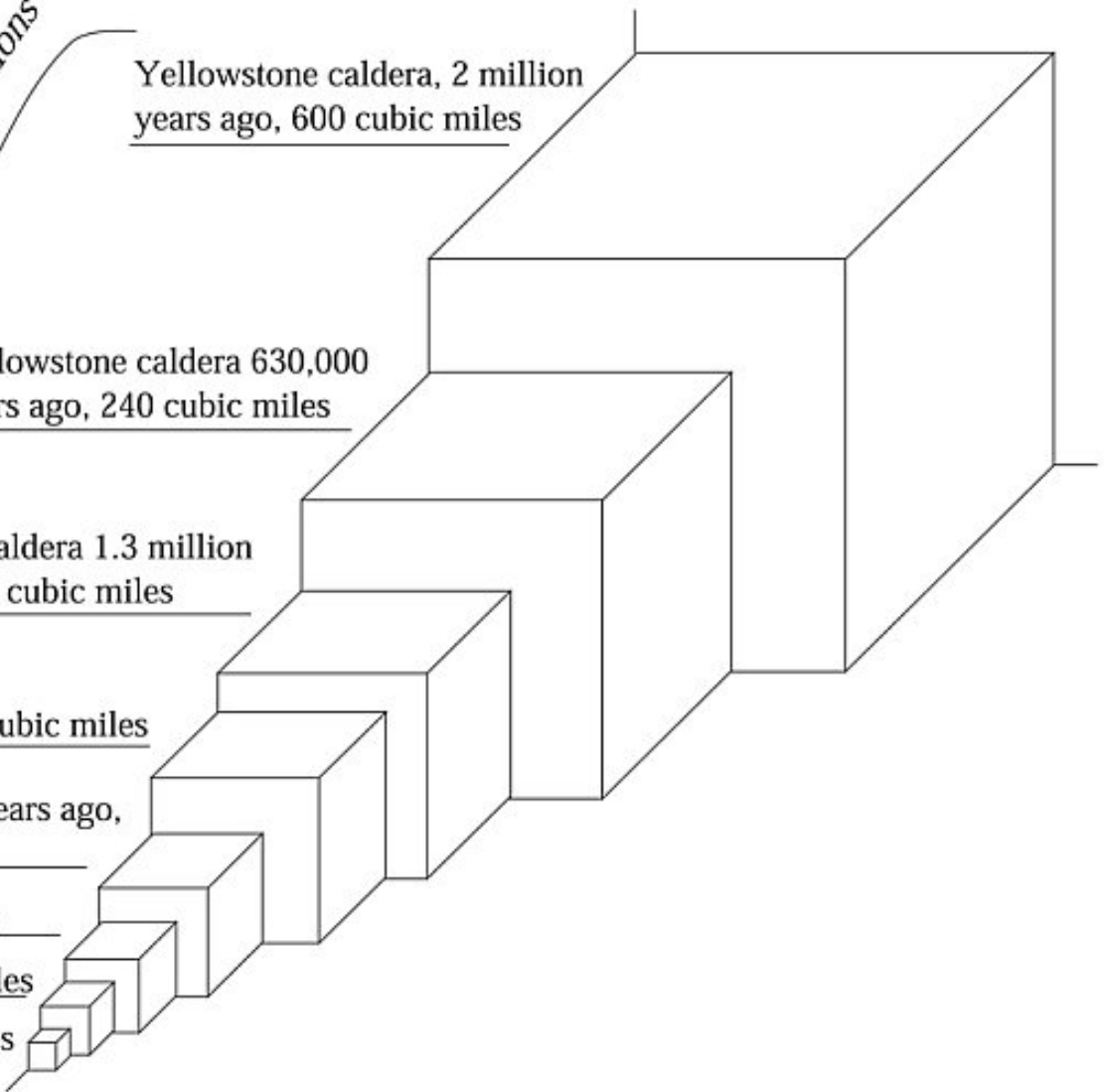
Tambora, 1815, 36 cubic miles

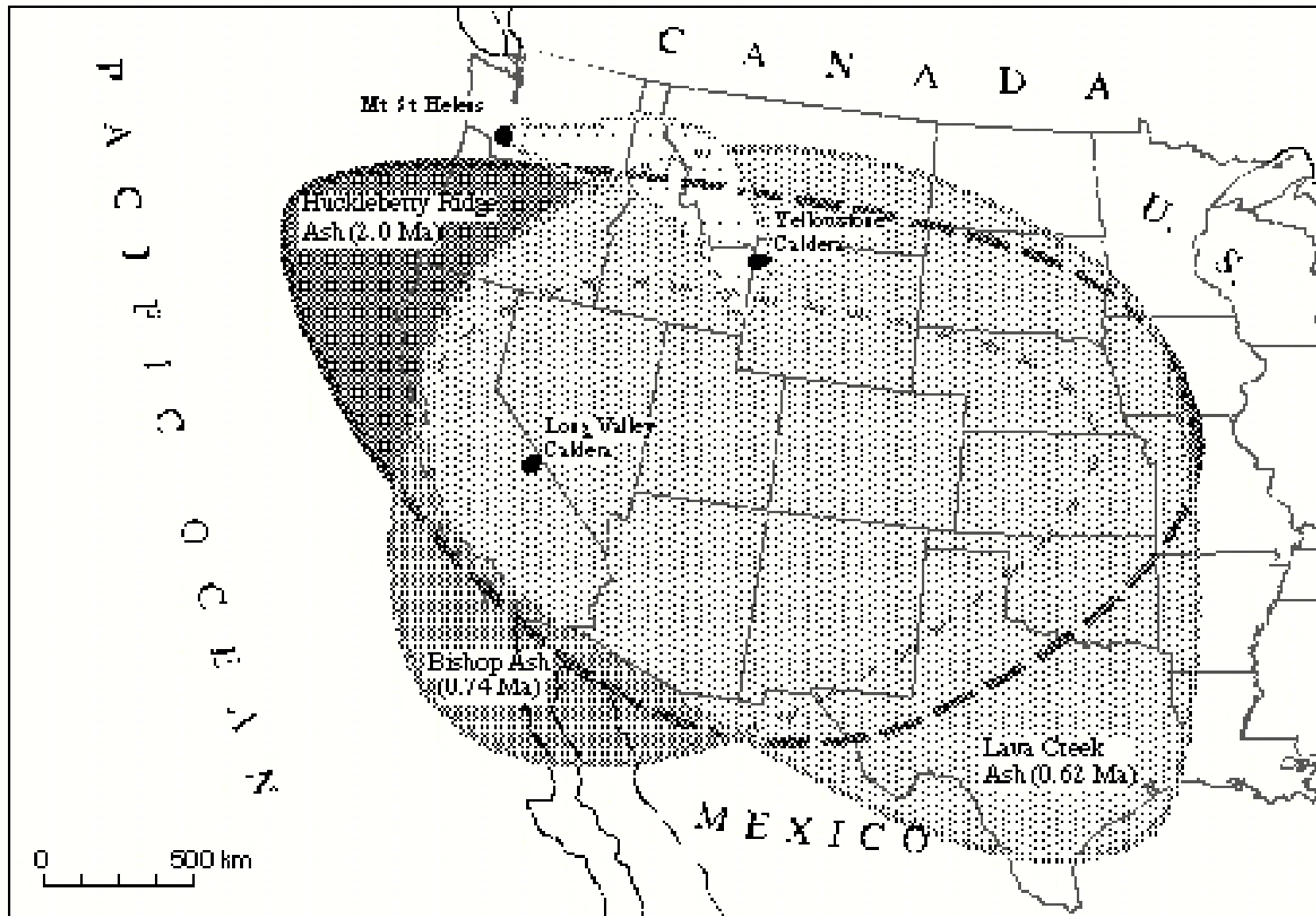
Mount Mazama, ~7,600 years ago, 18 cubic miles

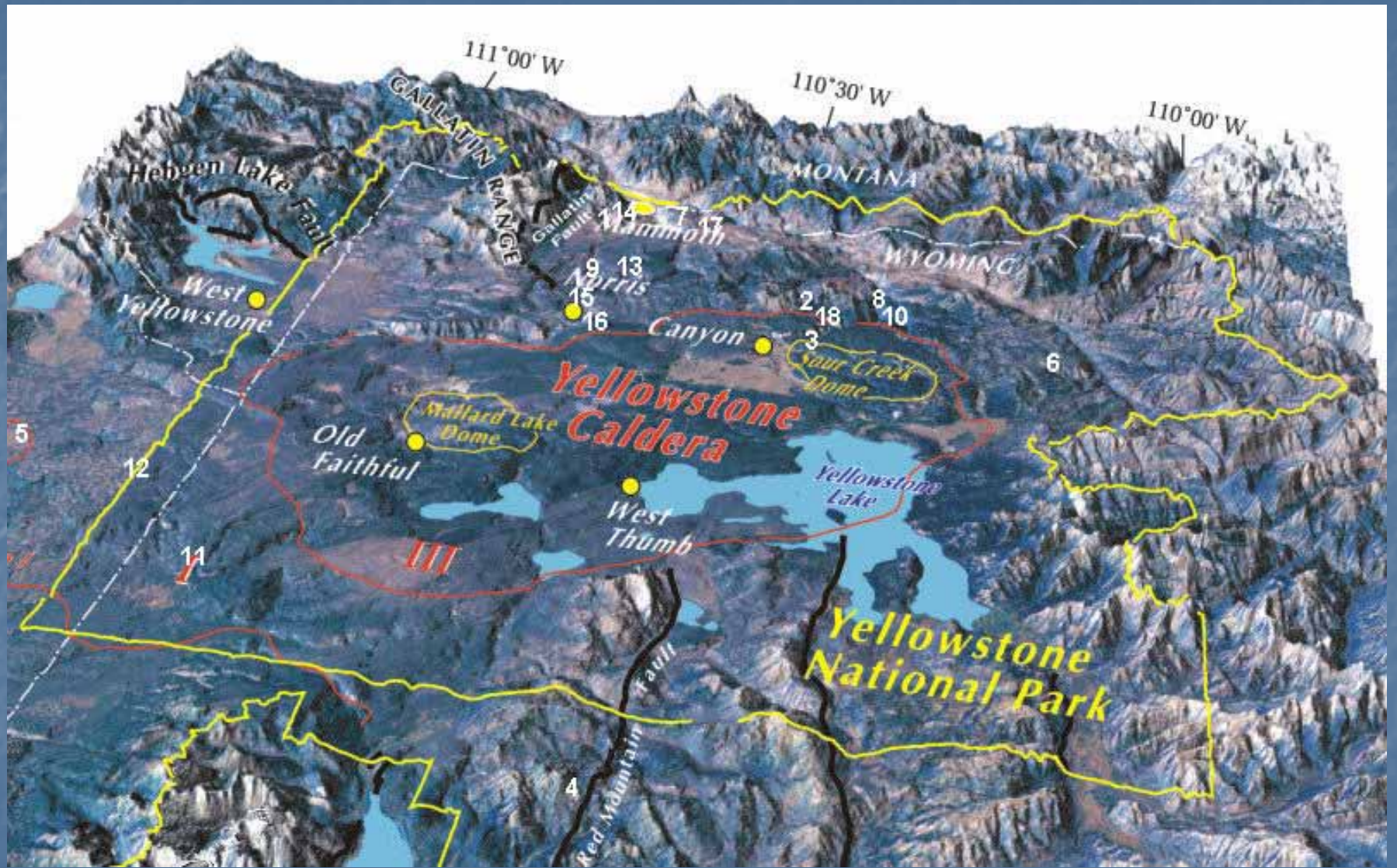
Krakatau, 1883, 4.3 cubic miles

Mount Pinatubo, 1991, 2.4 cubic miles

Mount St. Helens, 1980, 0.24 cubic miles













Yellowstone National Park

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Streaming: 100%

Pointer: 44°29'41.73" N 110°00'27.81" W elev: 1623 ft

Eye alt: 65.48 mi



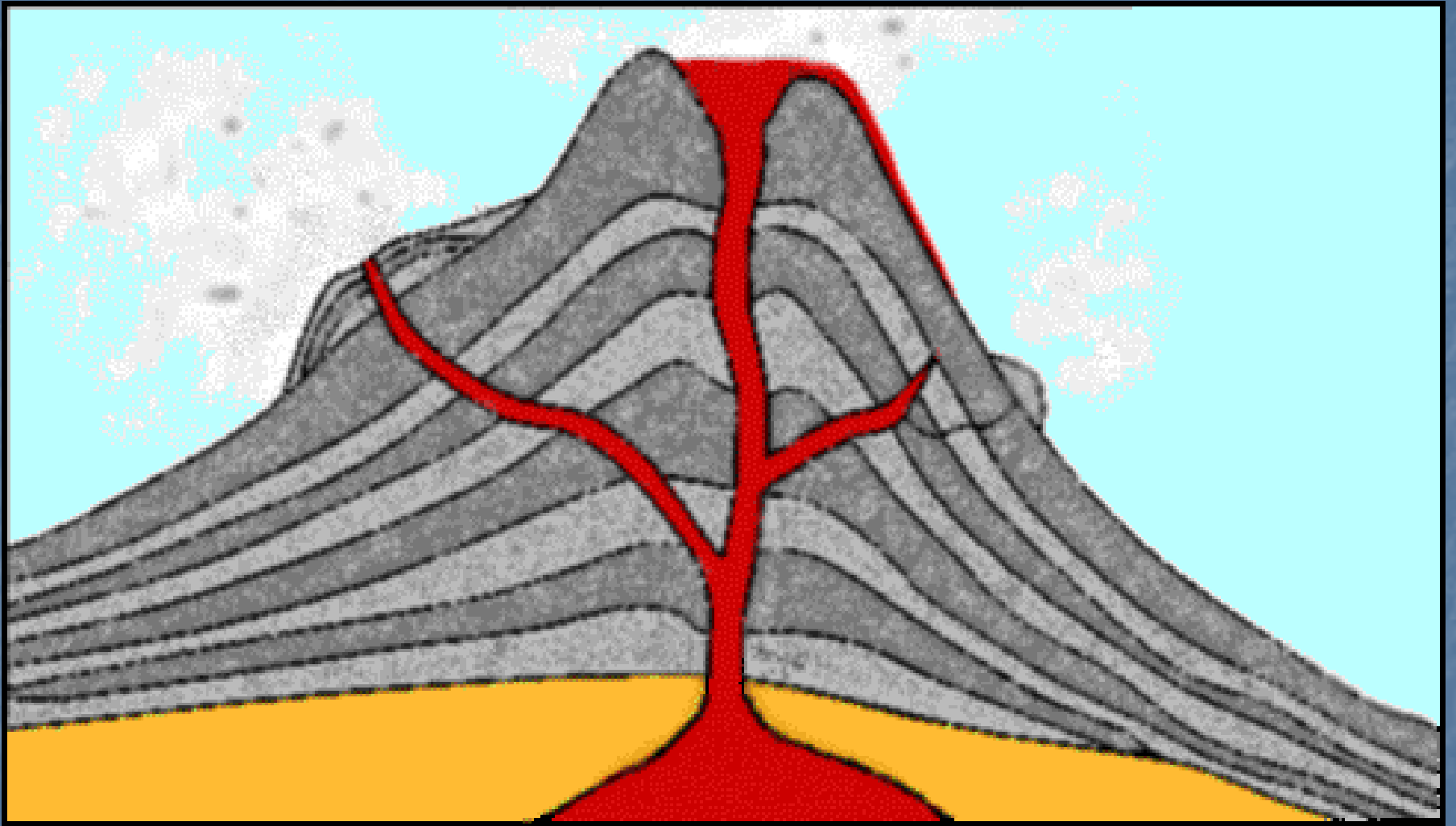
Image © 2005 DigitalGlobe

© 2005 Google

Pointer: 44°27'54.97" N 110°07'14.86" W elev. 9008 ft

Streaming ||||| 100%

Eye alt 12059 ft





Eleanor Lake

Point: 44°27'53.25" N 110°07'23.27" W elev: 8650.0

Image © 2008 DigitalGlobe

Streaming 100%

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Full 0.7413.0





STA 1+910
Heading Toward
Fishing Bridge
June 22, 2004



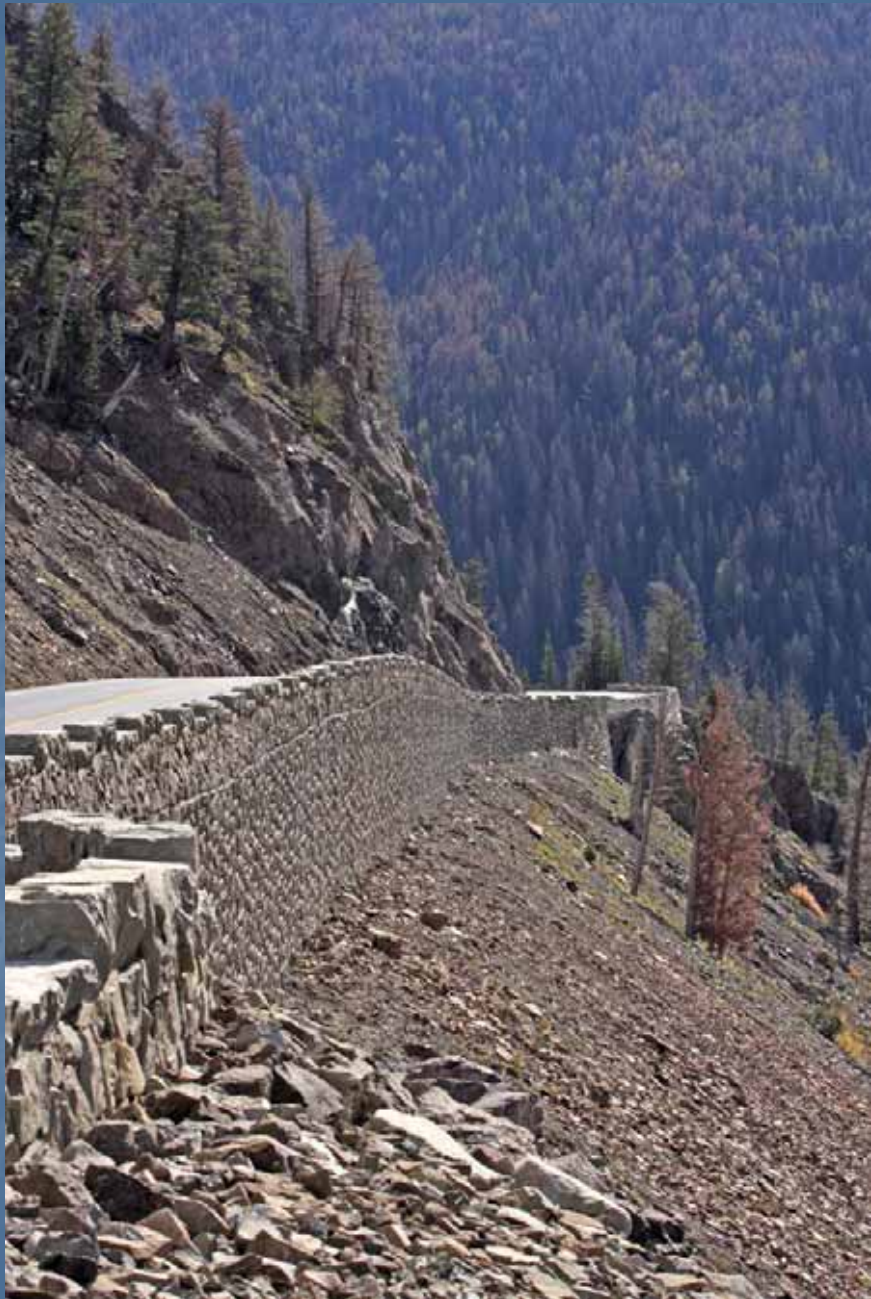
Image © 2005 DigitalGlobe

© 2005 Google

Pointer: 44°27'54.97" N 110°07'14.86" W elev. 9008 ft

Streaming ||||| 100%

Eye alt 12059 ft





STA 1+910
Heading Toward
Fishing Bridge
June 22, 2004





©2007 Google™

Image © 2004 DigitalGlobe


Streaming ||||| 100%




Pointer: 44°22'50.12" N 110°07'17.33" W elev: 8636 ft

Eye alt: 16035 ft

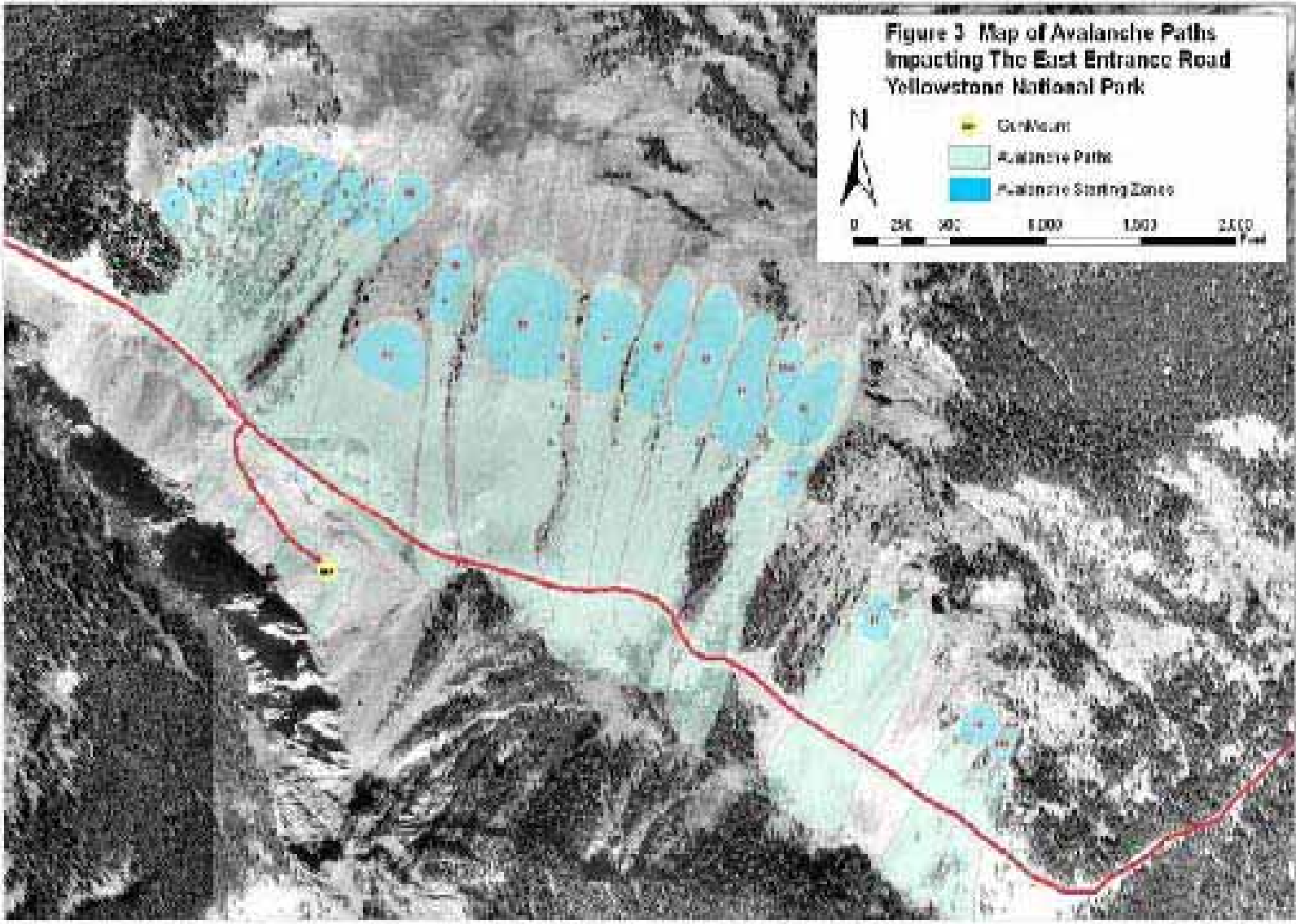

Figure 3 Map of Avalanche Paths Impacting The East Entrance Road Yellowstone National Park

N



-  Gun Mount
-  Avalanche Paths
-  Avalanche Starting Zones

0 200 400 600 800 1000 1200 1400 Feet





Eleanor Lake

Point: 44°27'53.25" N, 110°07'23.27" W, elev: 8650.0

Image © 2008 DigitalGlobe

Streaming 100%

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Elev: 0.74130

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