Yellowstone's 3rd Caldera-Forming Eruption: Pre- and Post-Volcanic Activity.
Yellowstone National Park
Cat Foley

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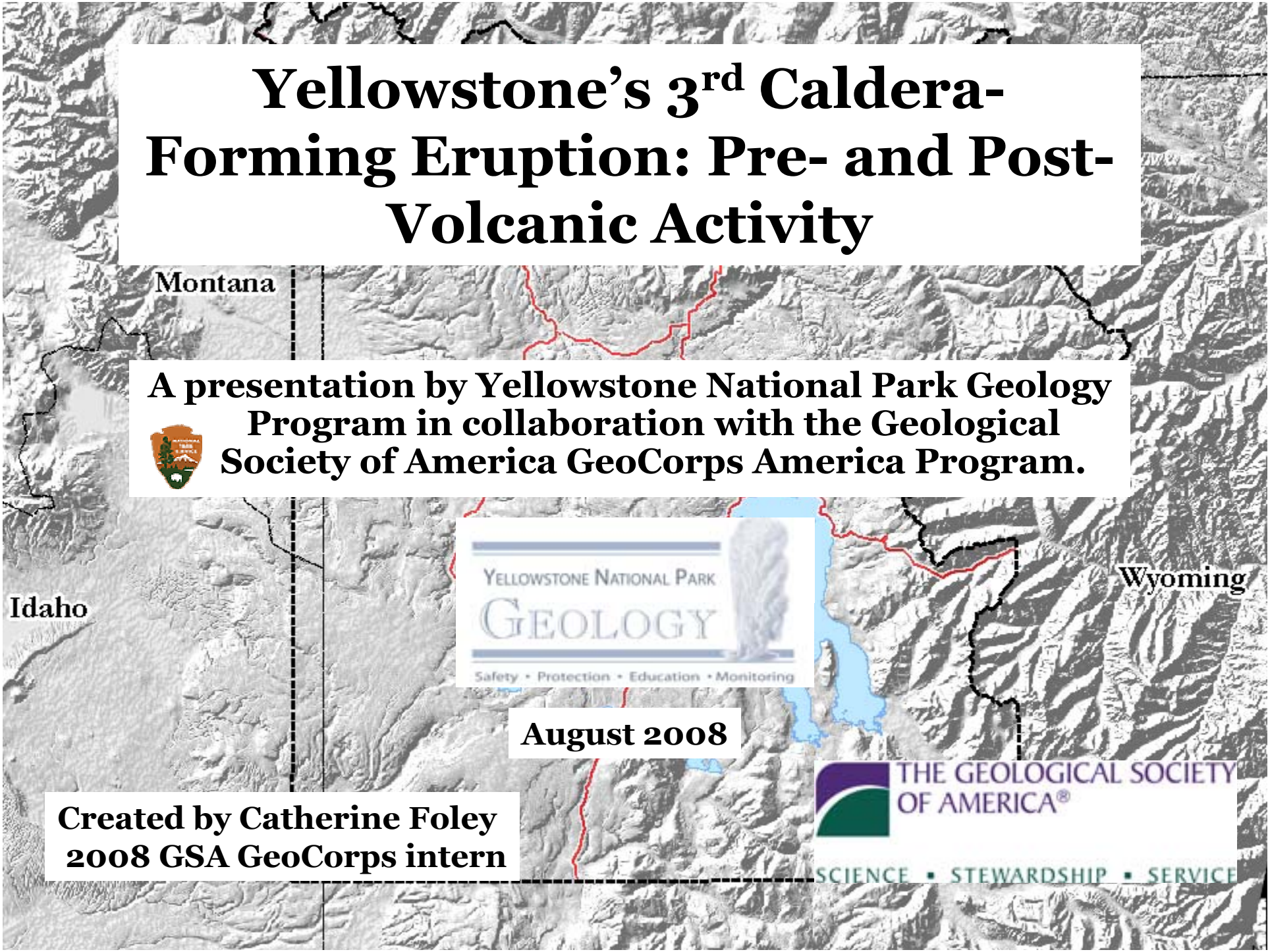
Yellowstone's 3rd Caldera-Forming Eruption: Pre- and Post-Volcanic Activity



A presentation by Yellowstone National Park Geology Program in collaboration with the Geological Society of America GeoCorps America Program.

YELLOWSTONE NATIONAL PARK
GEOLOGY
Safety • Protection • Education • Monitoring

August 2008

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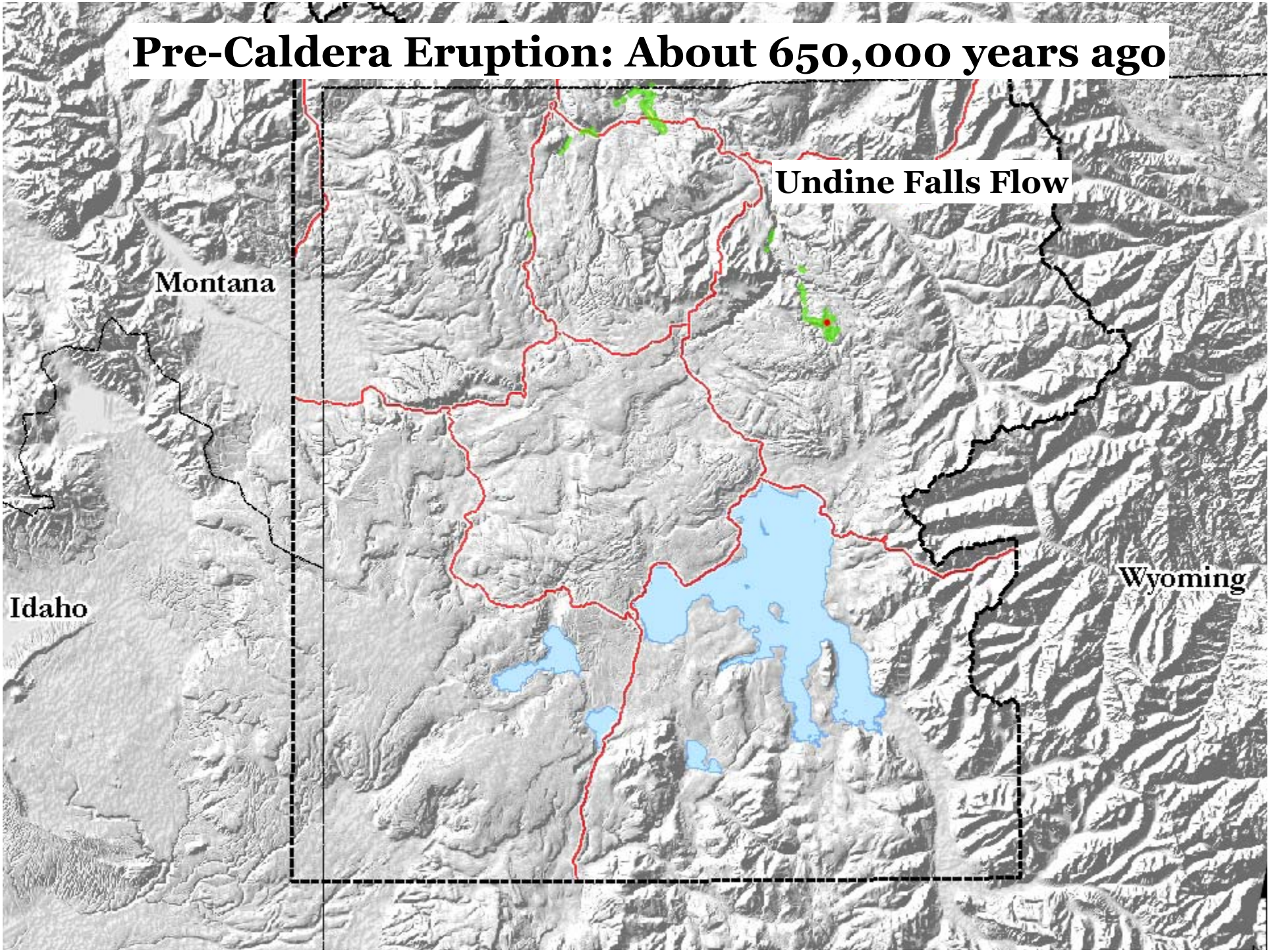
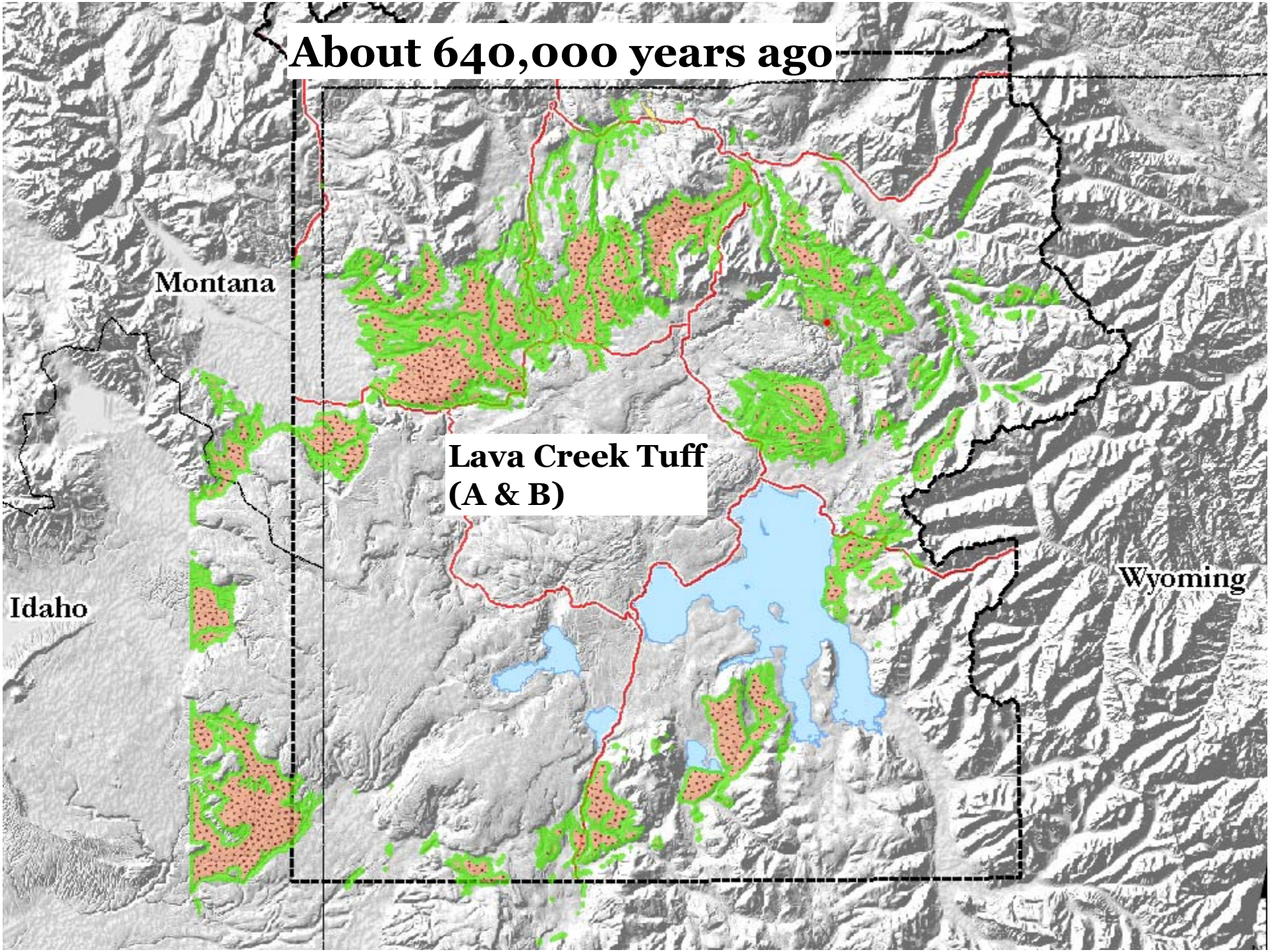
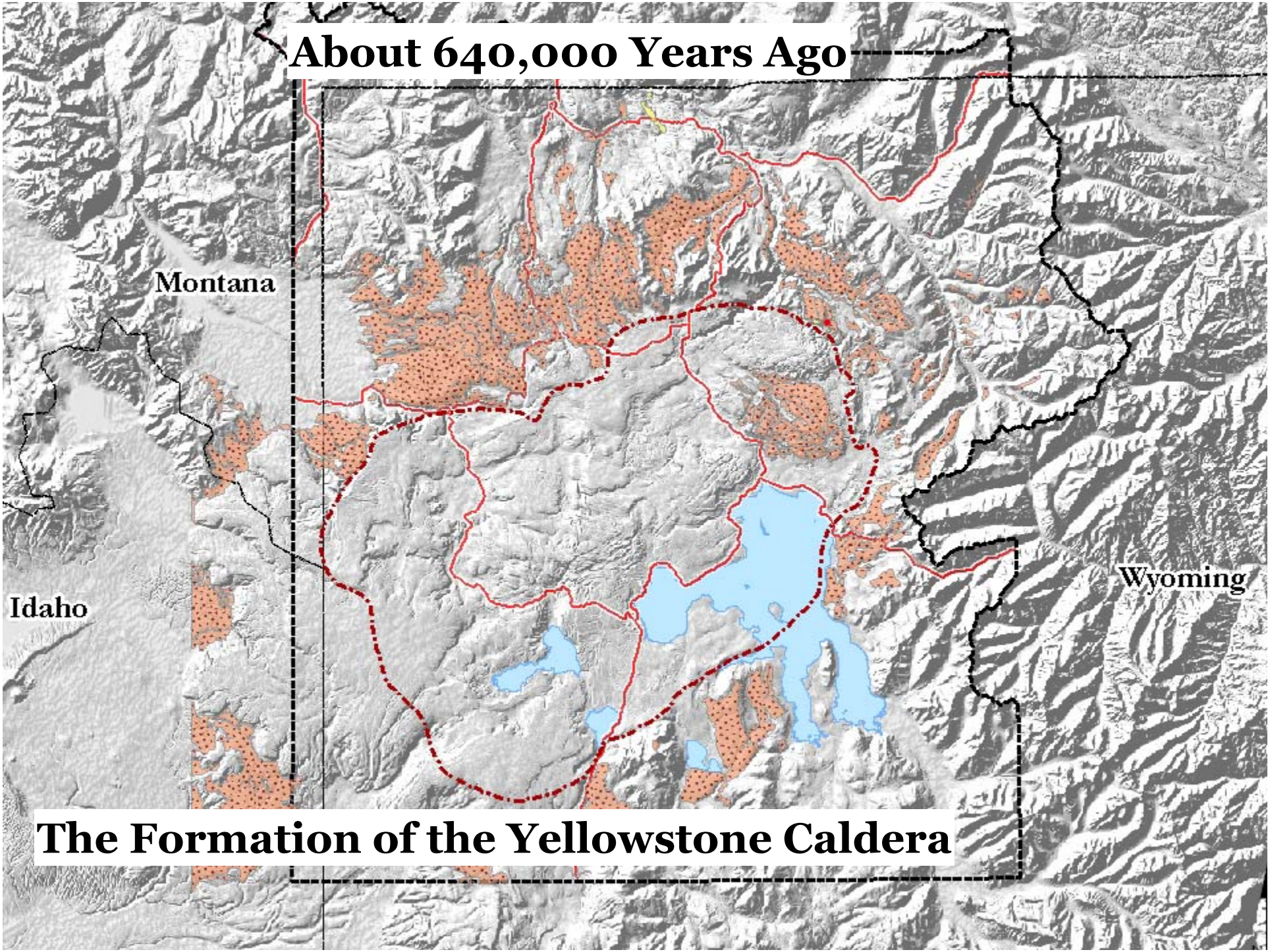
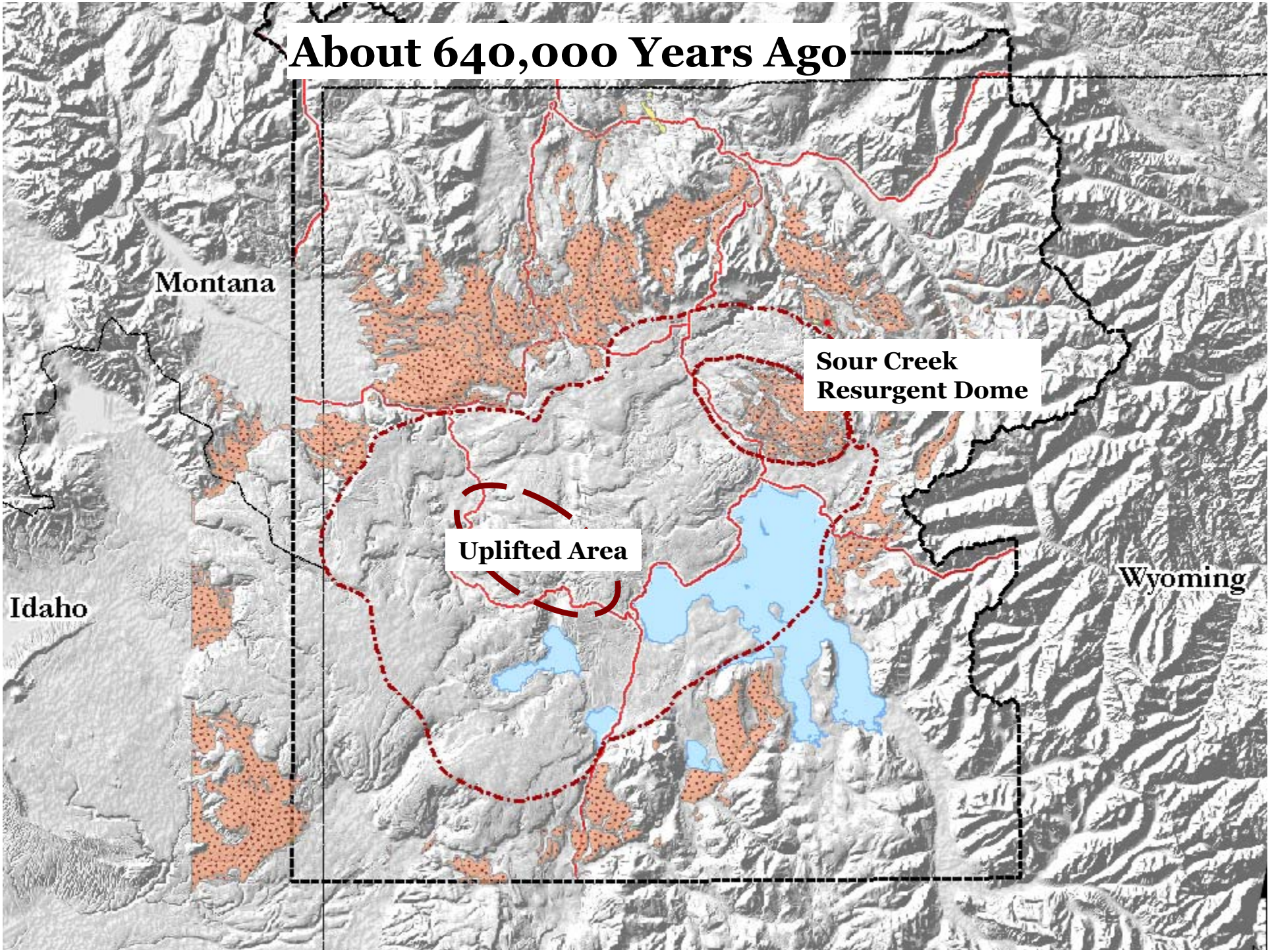
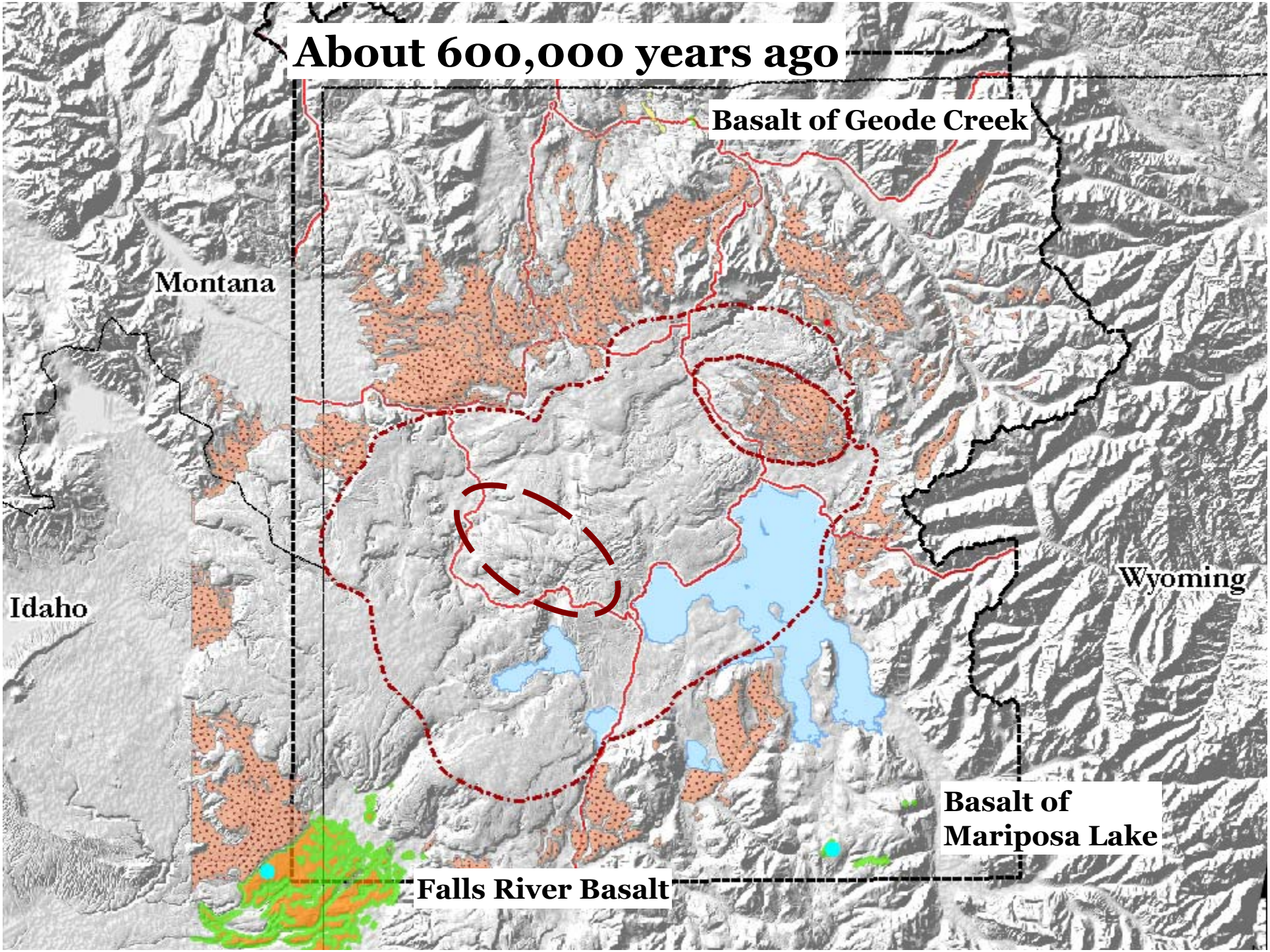
Created by Catherine Foley
2008 GSA GeoCorps intern

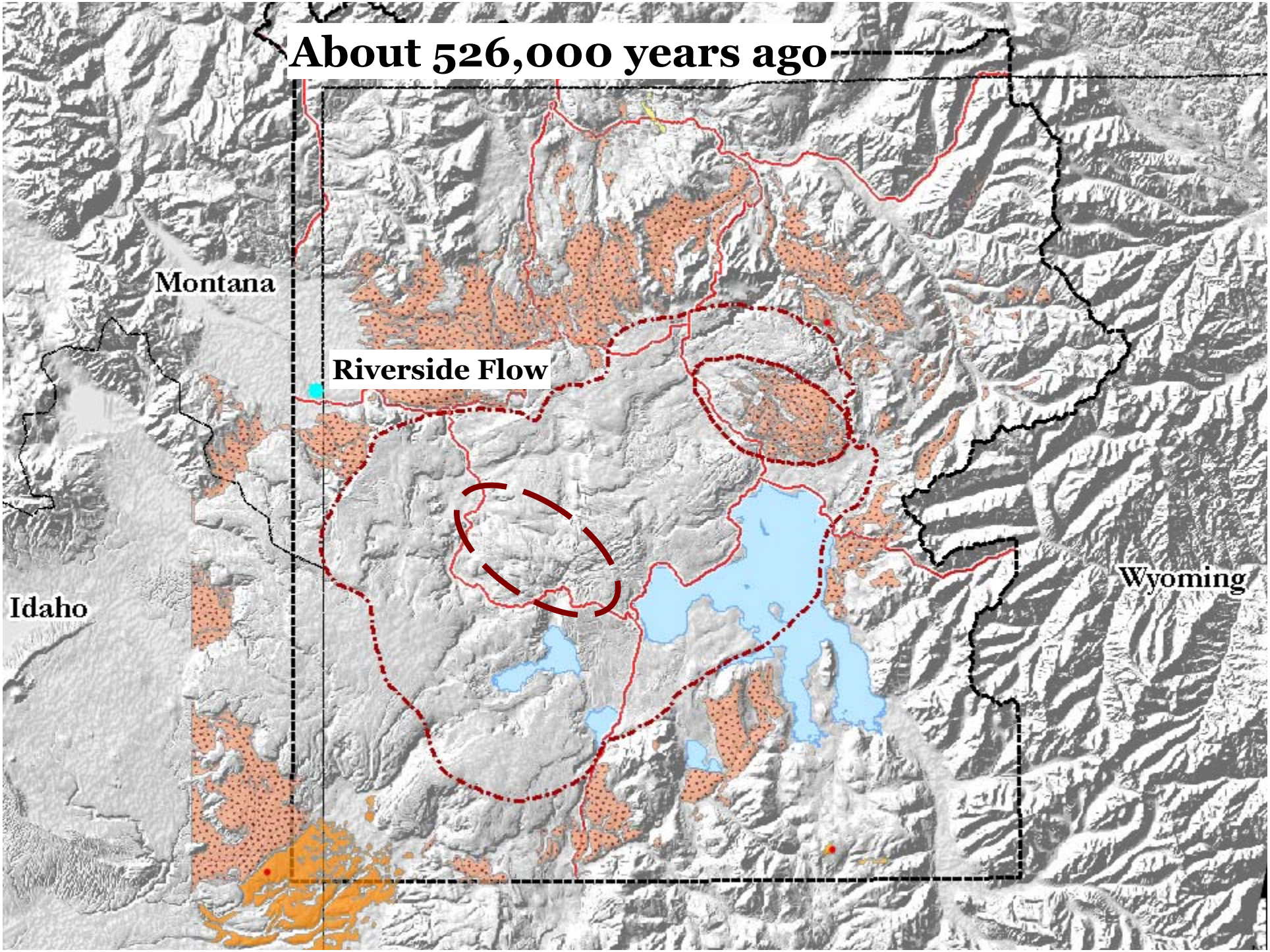

Pre-Caldera Eruption: About 650,000 years ago
Undine Falls Flow
Montana
Idaho
Wyoming

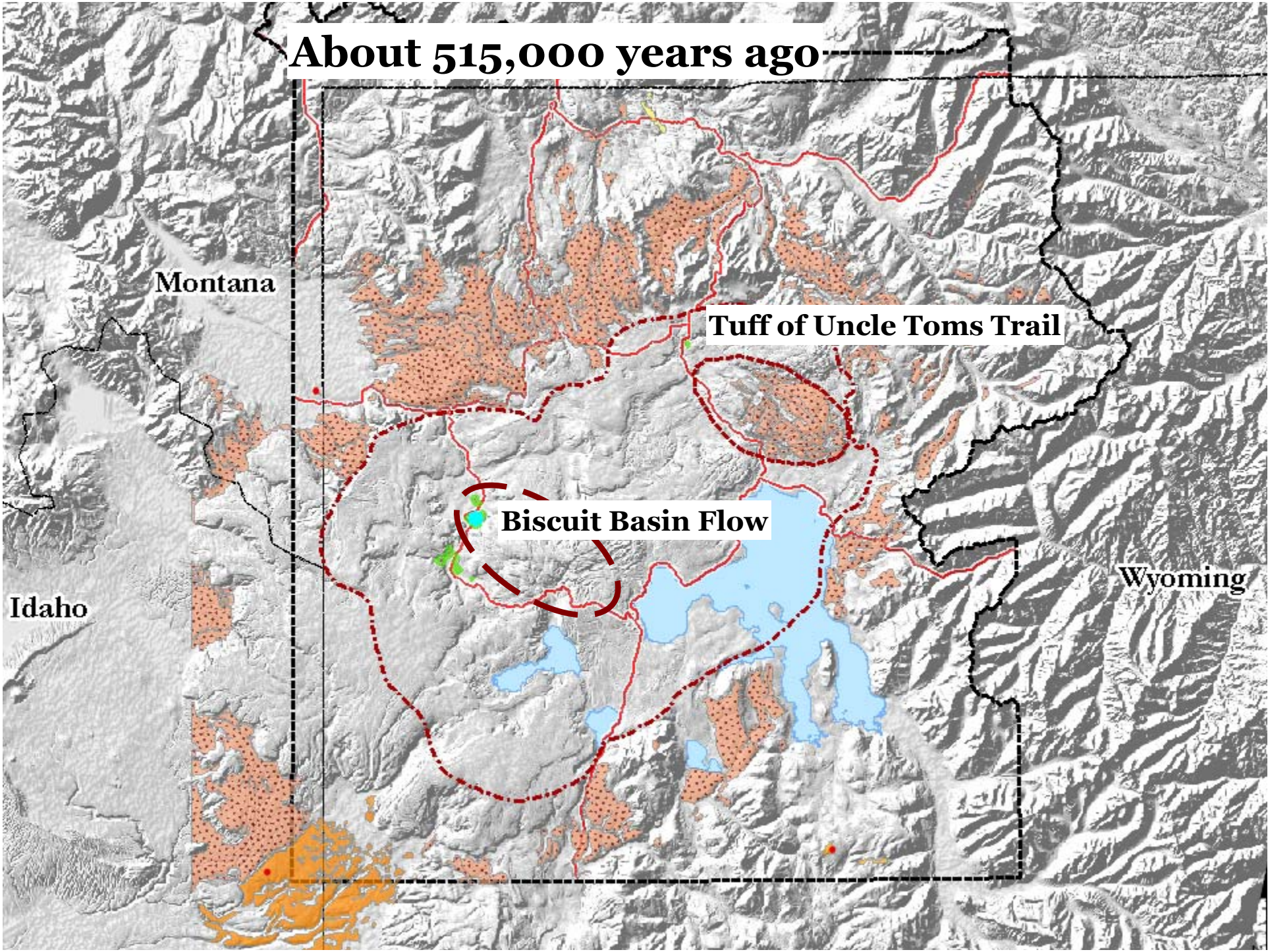

About 640,000 years ago
Montana
Lava Creek Tuff
(A & B)
Idaho
Wyoming

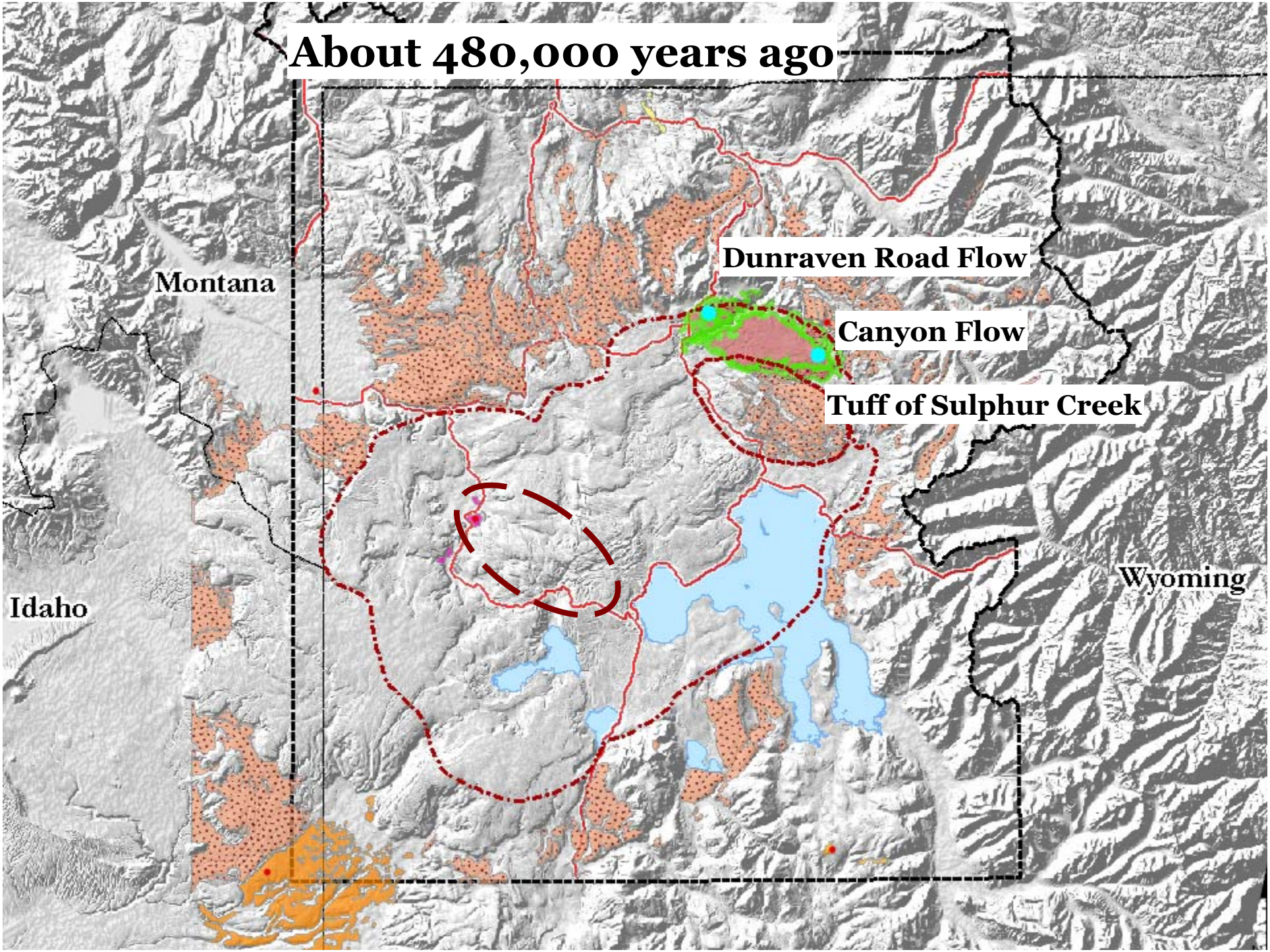

About 640,000 Years Ago
Montana
Idaho
Wyoming
The Formation of the Yellowstone Caldera

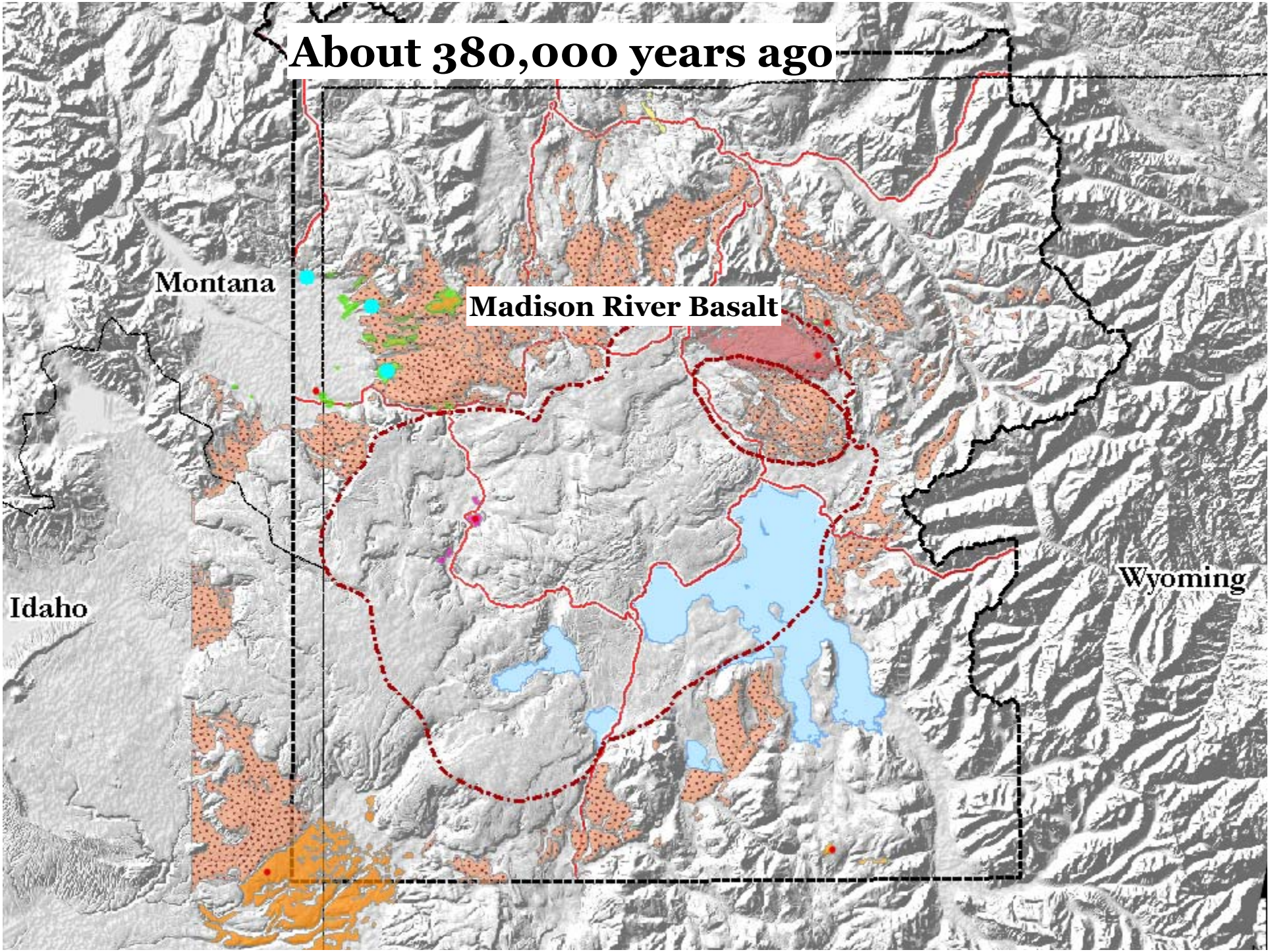

About 640,000 Years Ago
Montana
Sour Creek
Resurgent Dome
Uplifted Area
Idaho
Wyoming

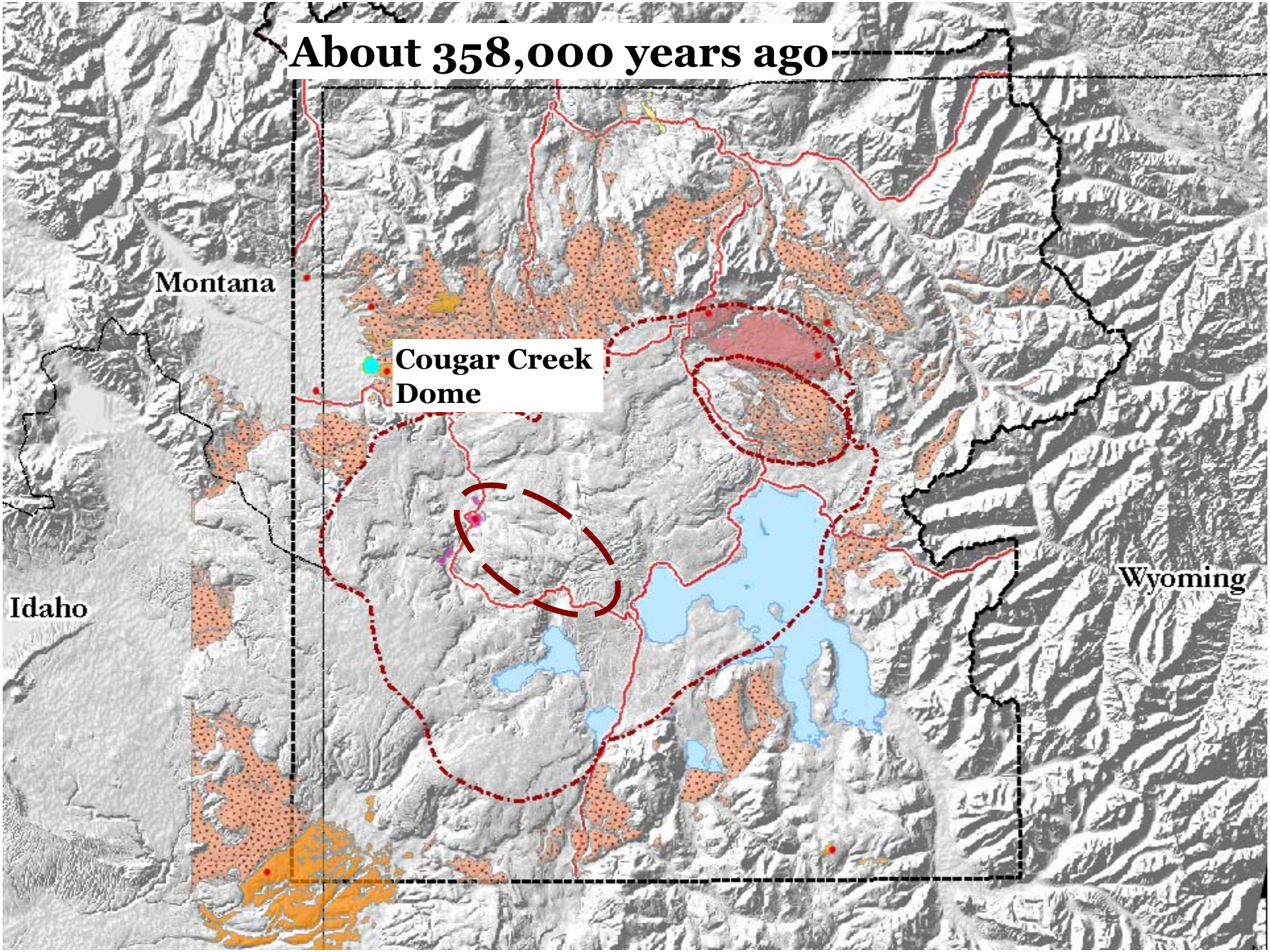

About 600,000 years ago
Basalt of Geode Creek
Montana
Idaho
Wyoming
Basalt of Mariposa Lake
Falls River Basalt

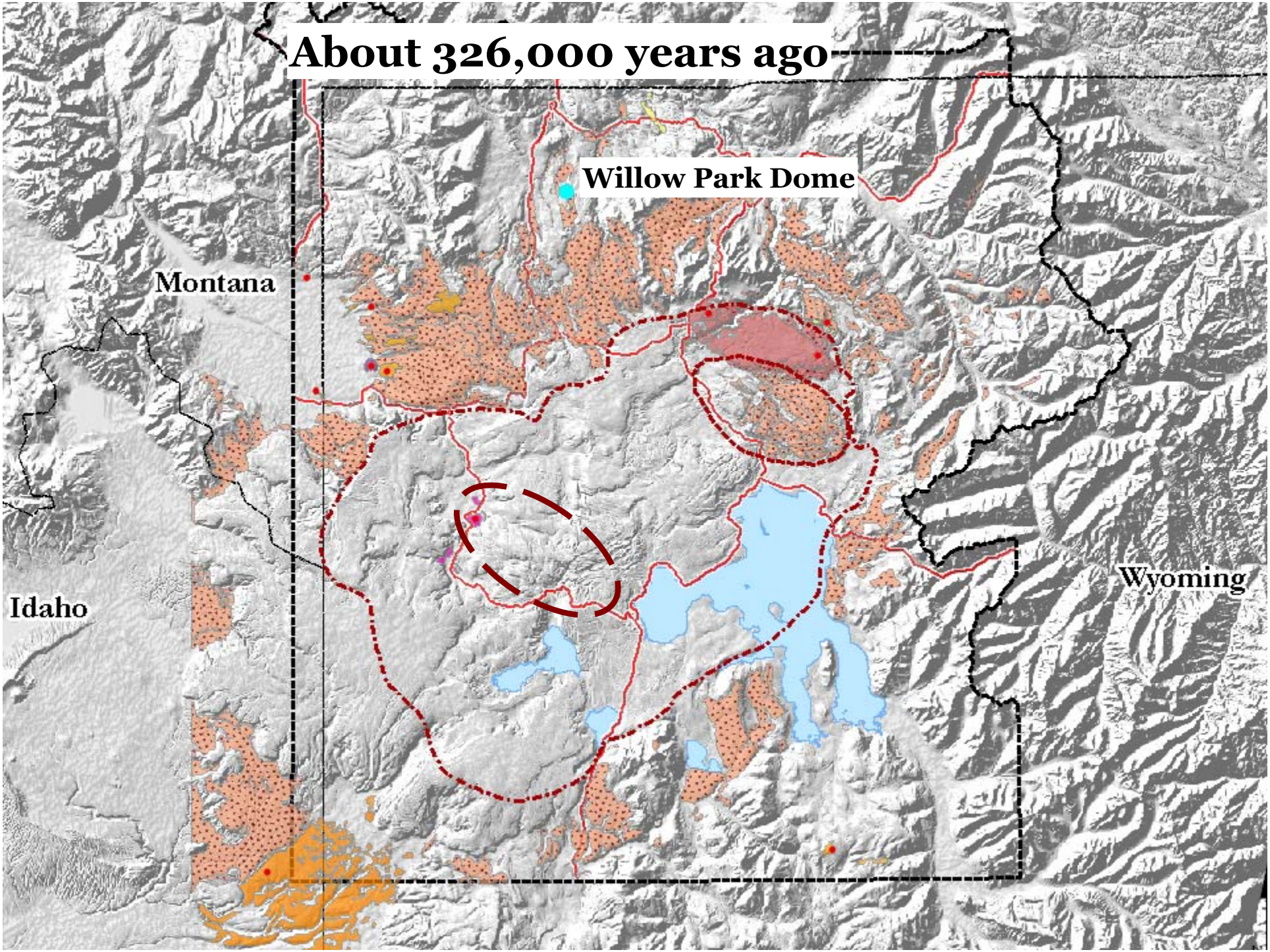

About 526,000 years ago
Montana
Riverside Flow
Idaho
Wyoming

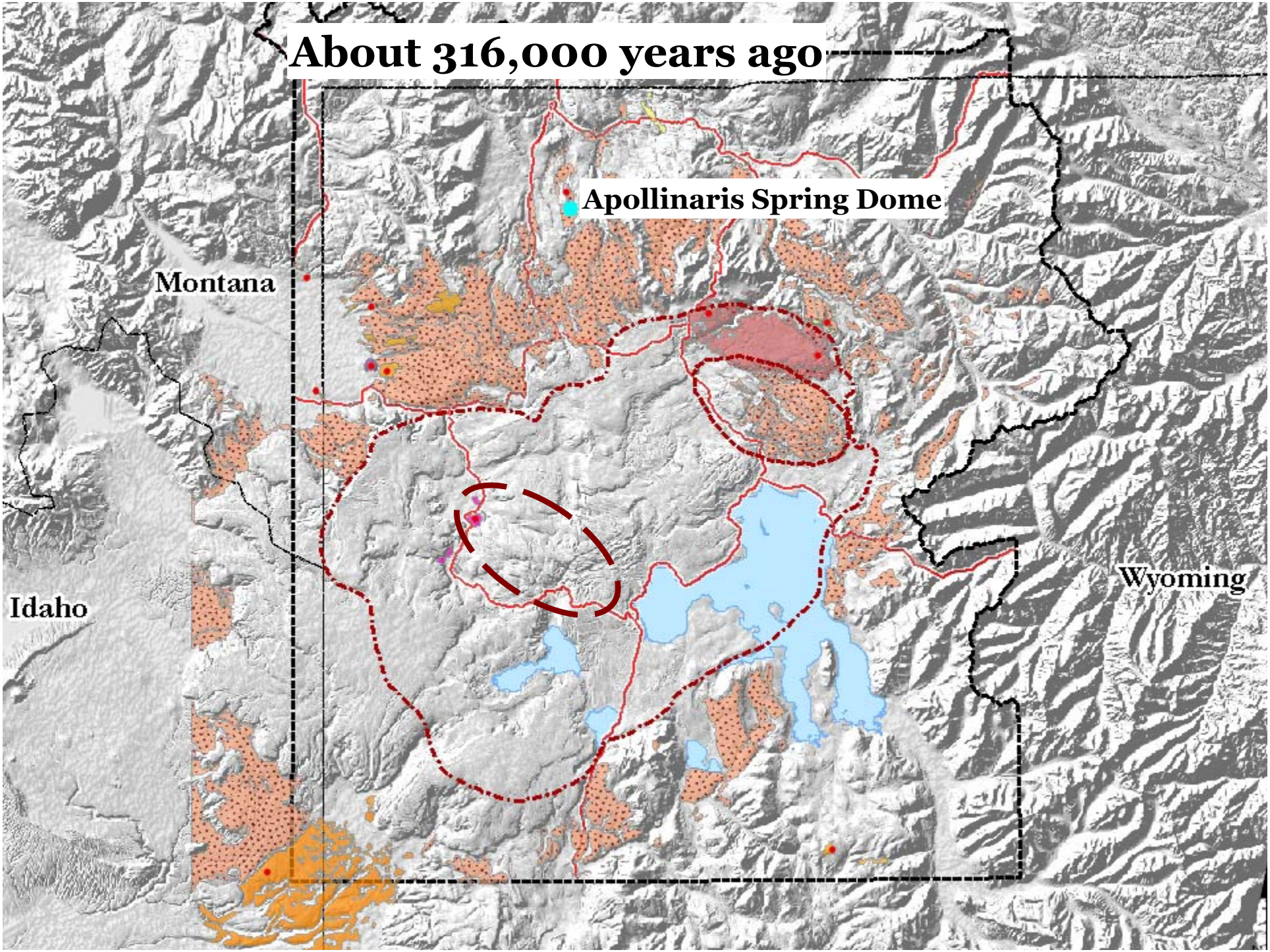

About 515,000 years ago
Montana
Tuff of Uncle Toms Trail
Biscuit Basin Flow
Idaho
Wyoming

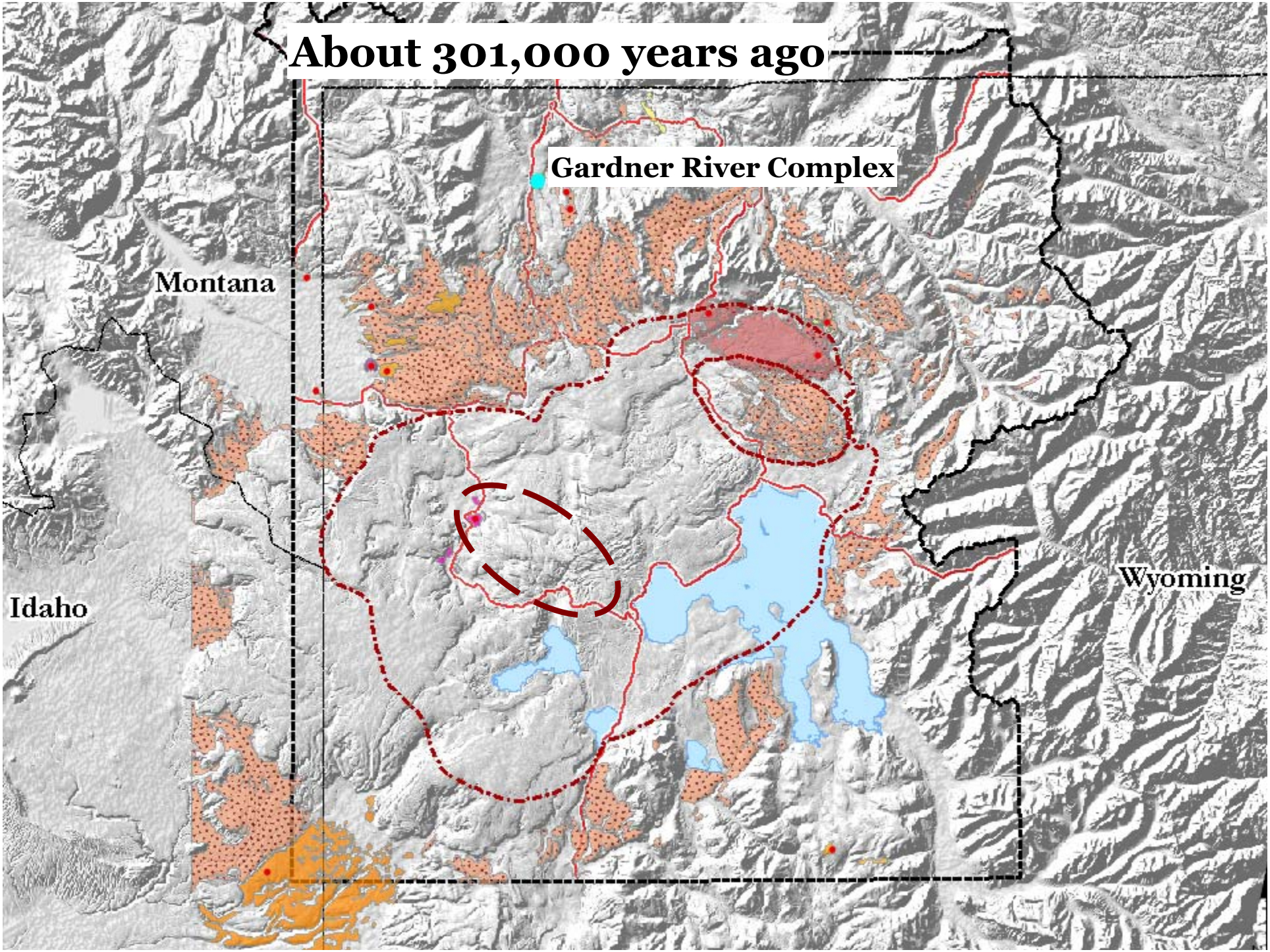

About 480,000 years ago
Dunraven Road Flow
Canyon Flow
Tuff of Sulphur Creek
Montana
Idaho
Wyoming

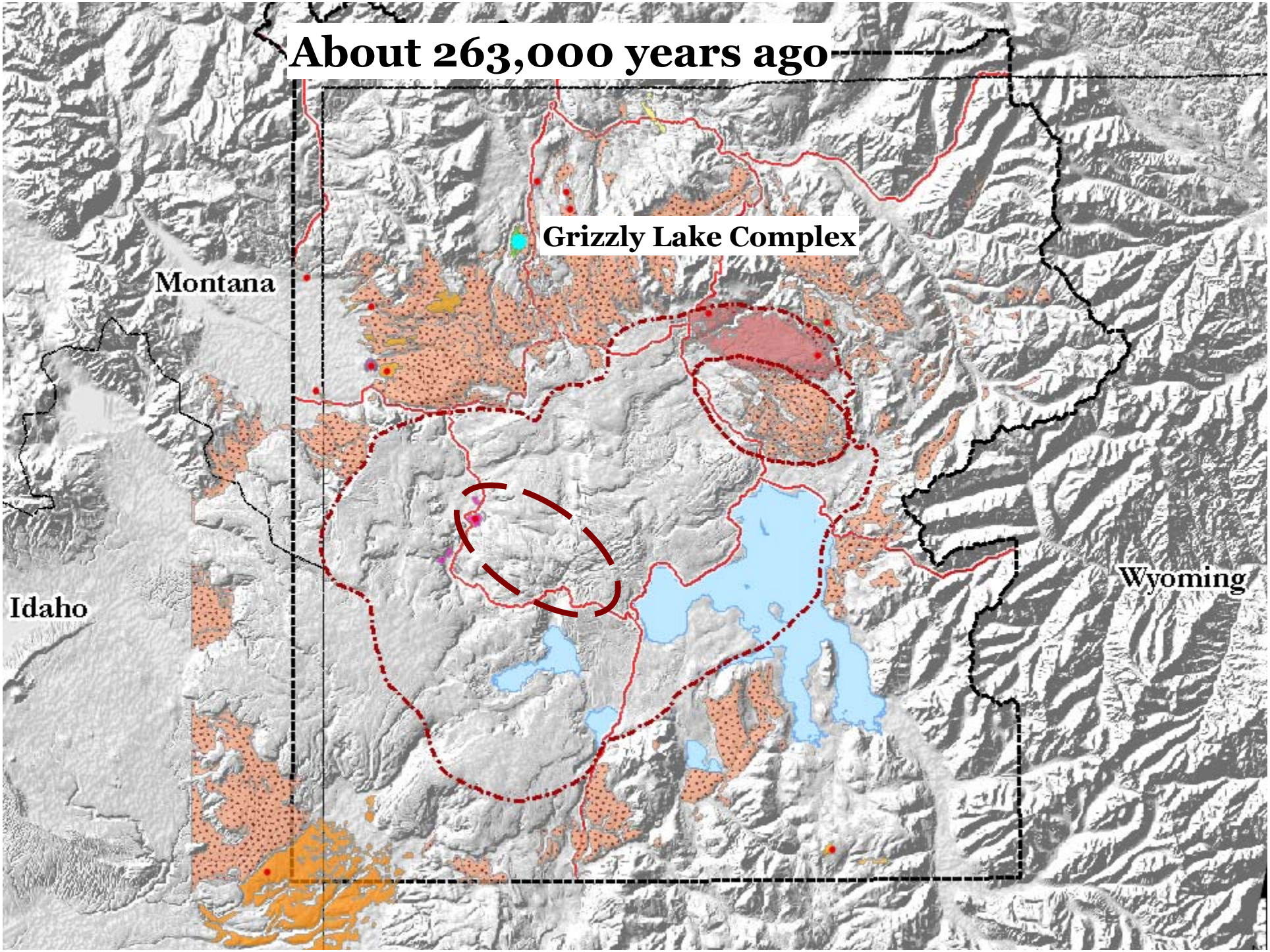

About 380,000 years ago
Montana
Madison River Basalt
Idaho
Wyoming

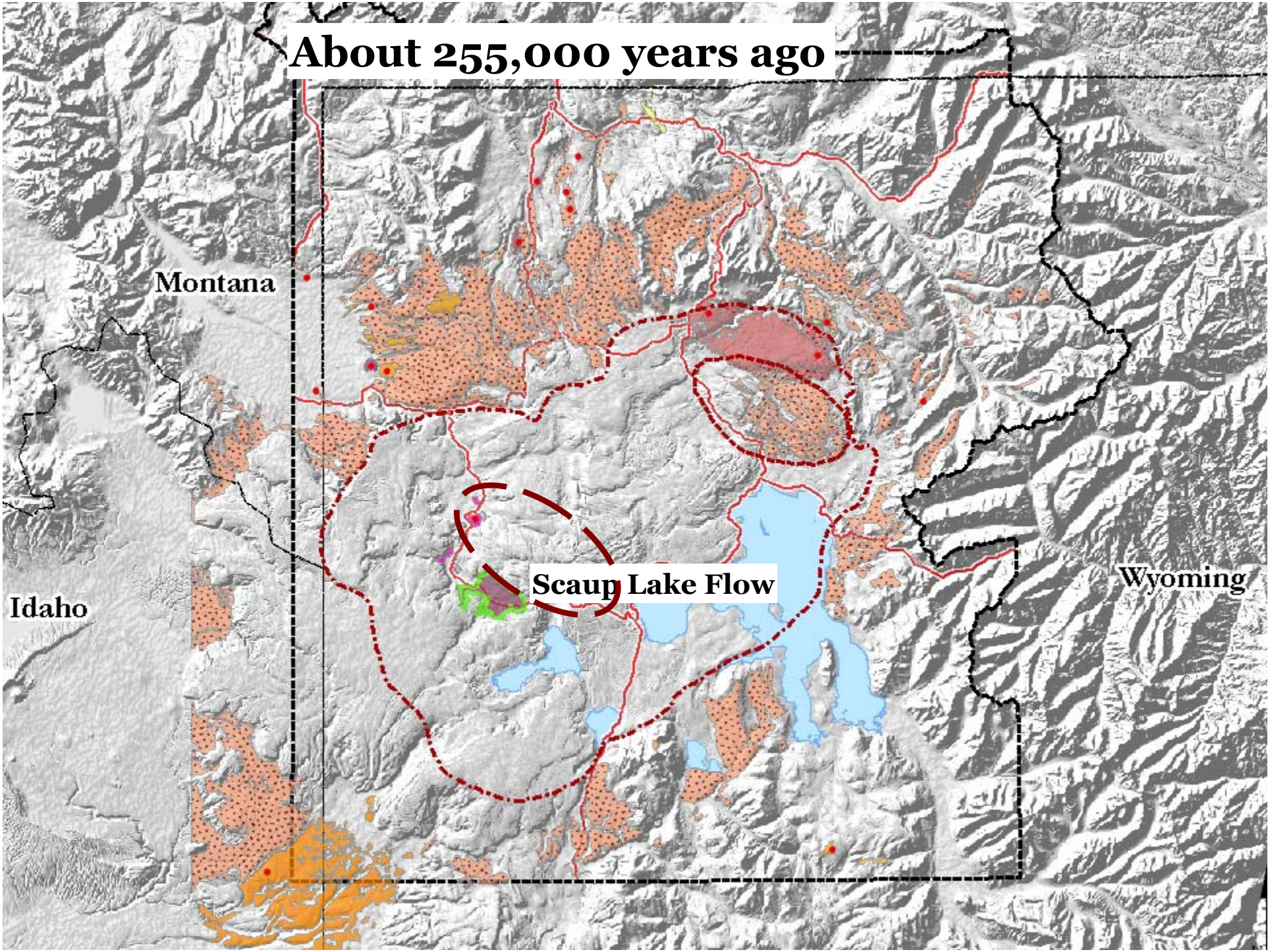

About 358,000 years ago
Montana
Cougar Creek Dome
Idaho
Wyoming

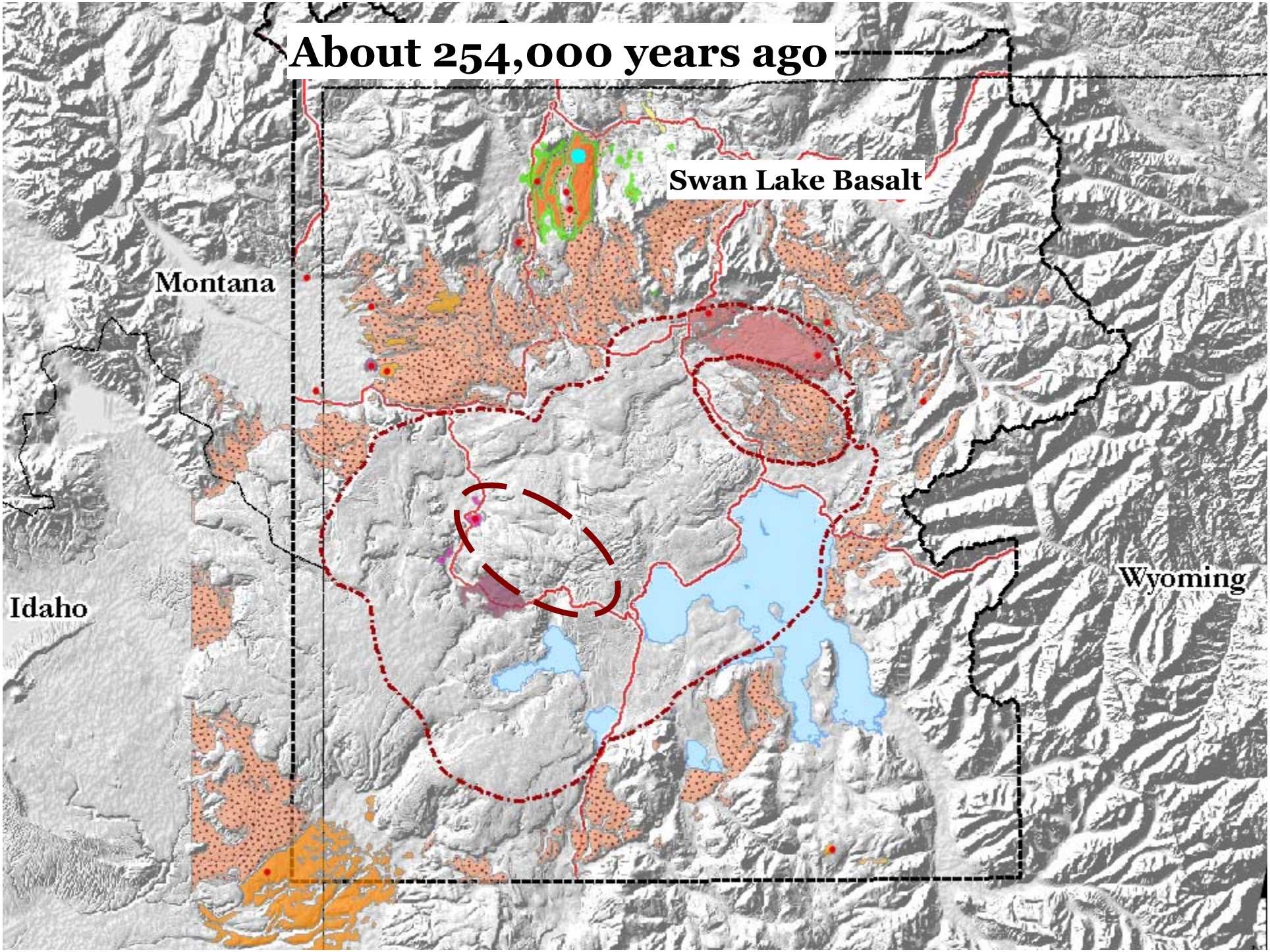

About 326,000 years ago
Willow Park Dome
Montana
Idaho
Wyoming

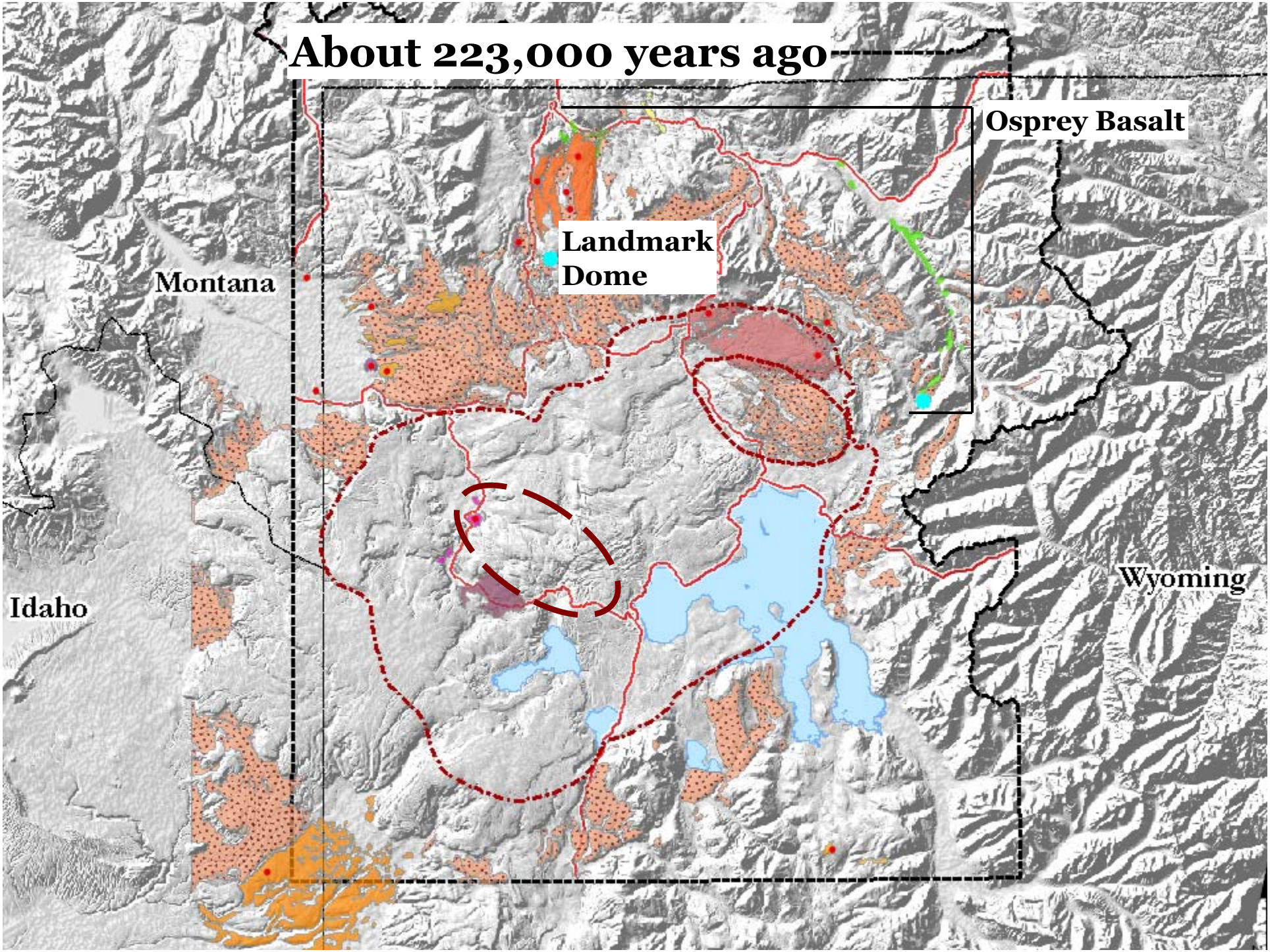

About 316,000 years ago
Apollinaris Spring Dome
Montana
Idaho
Wyoming

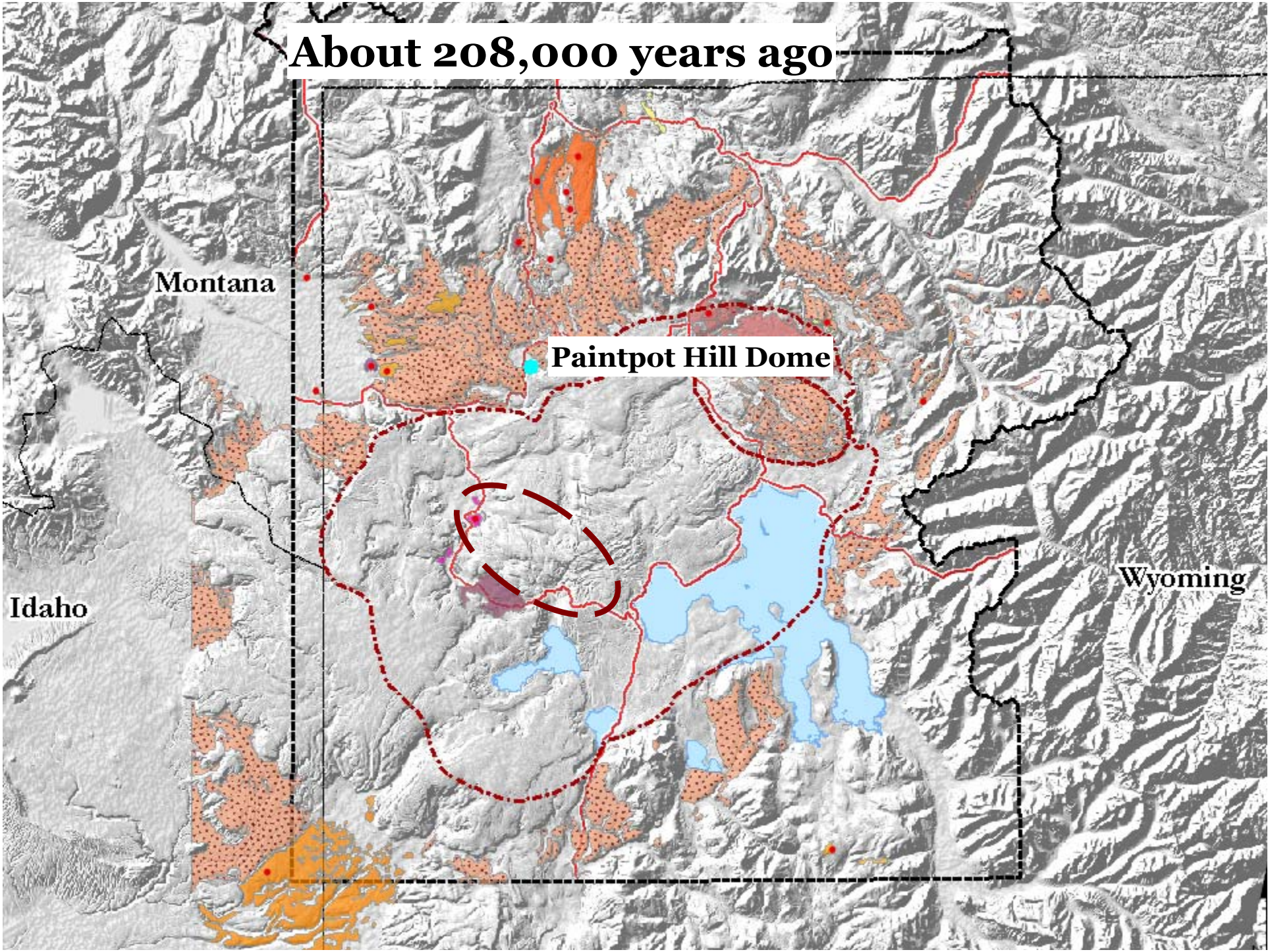

About 301,000 years ago
Gardner River Complex
Montana
Idaho
Wyoming

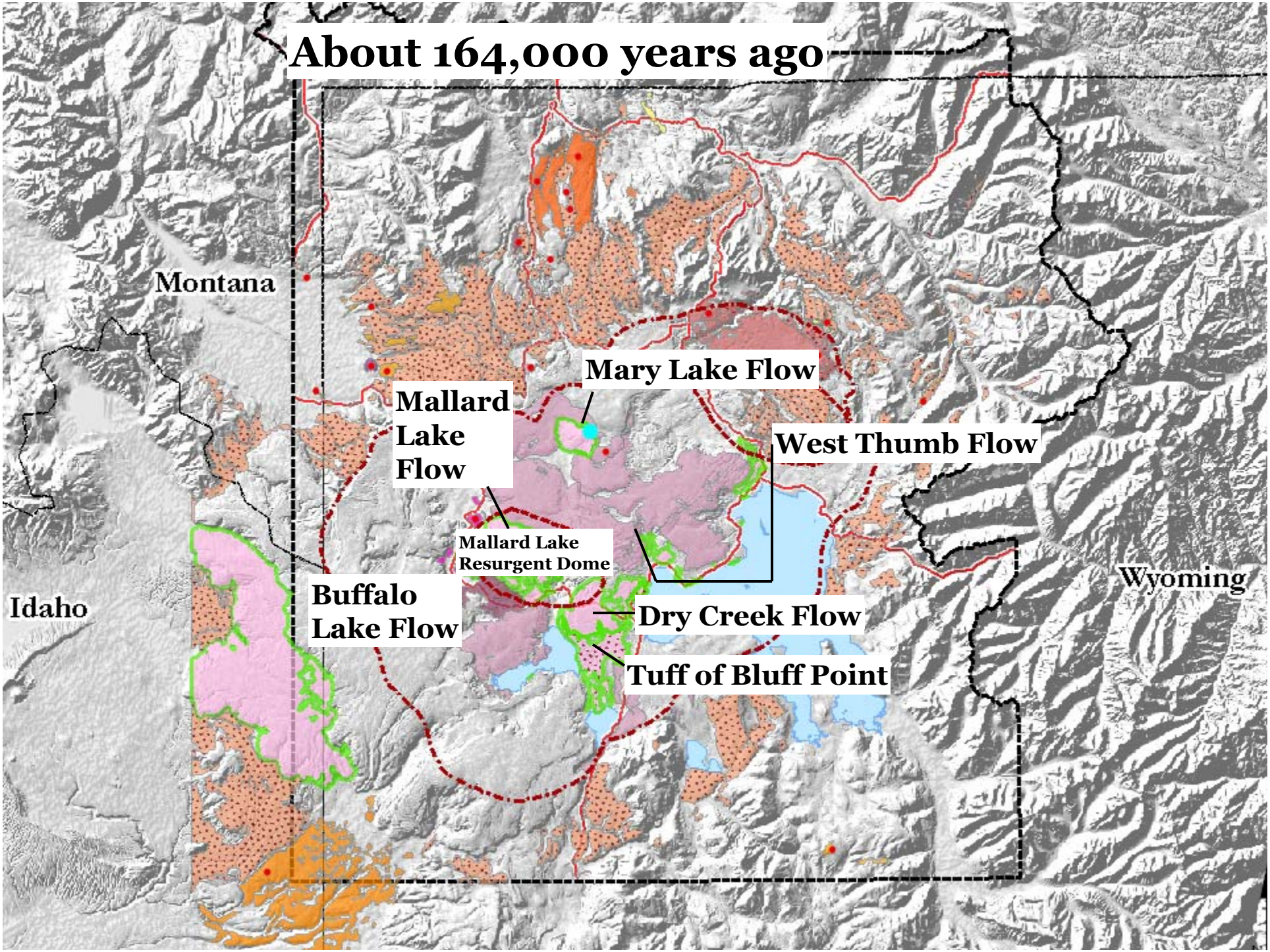

About 263,000 years ago
Grizzly Lake Complex
Montana
Idaho
Wyoming

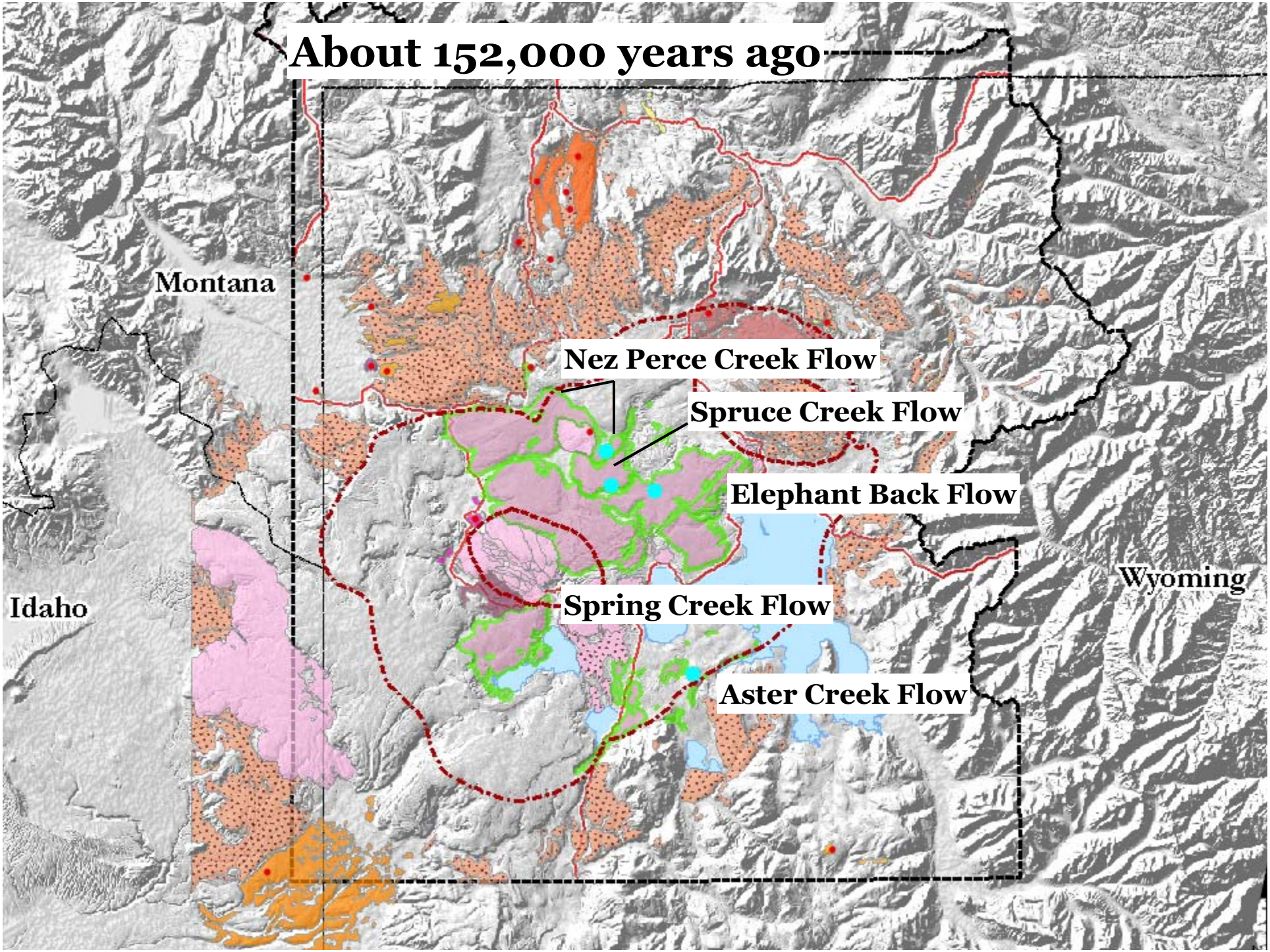

About 255,000 years ago
Montana
Idaho
Wyoming
Scaup Lake Flow

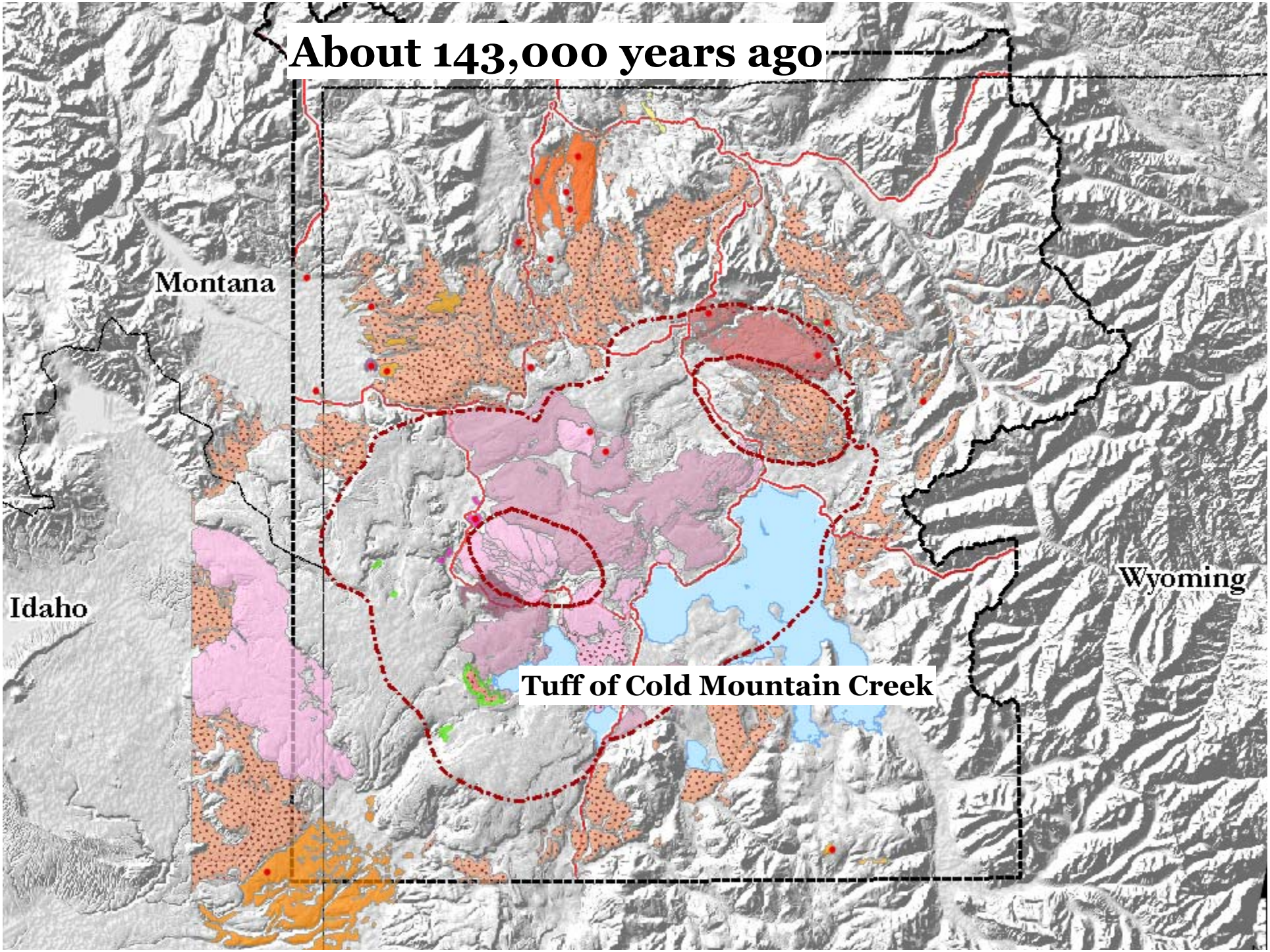

About 254,000 years ago
Swan Lake Basalt
Montana
Idaho
Wyoming

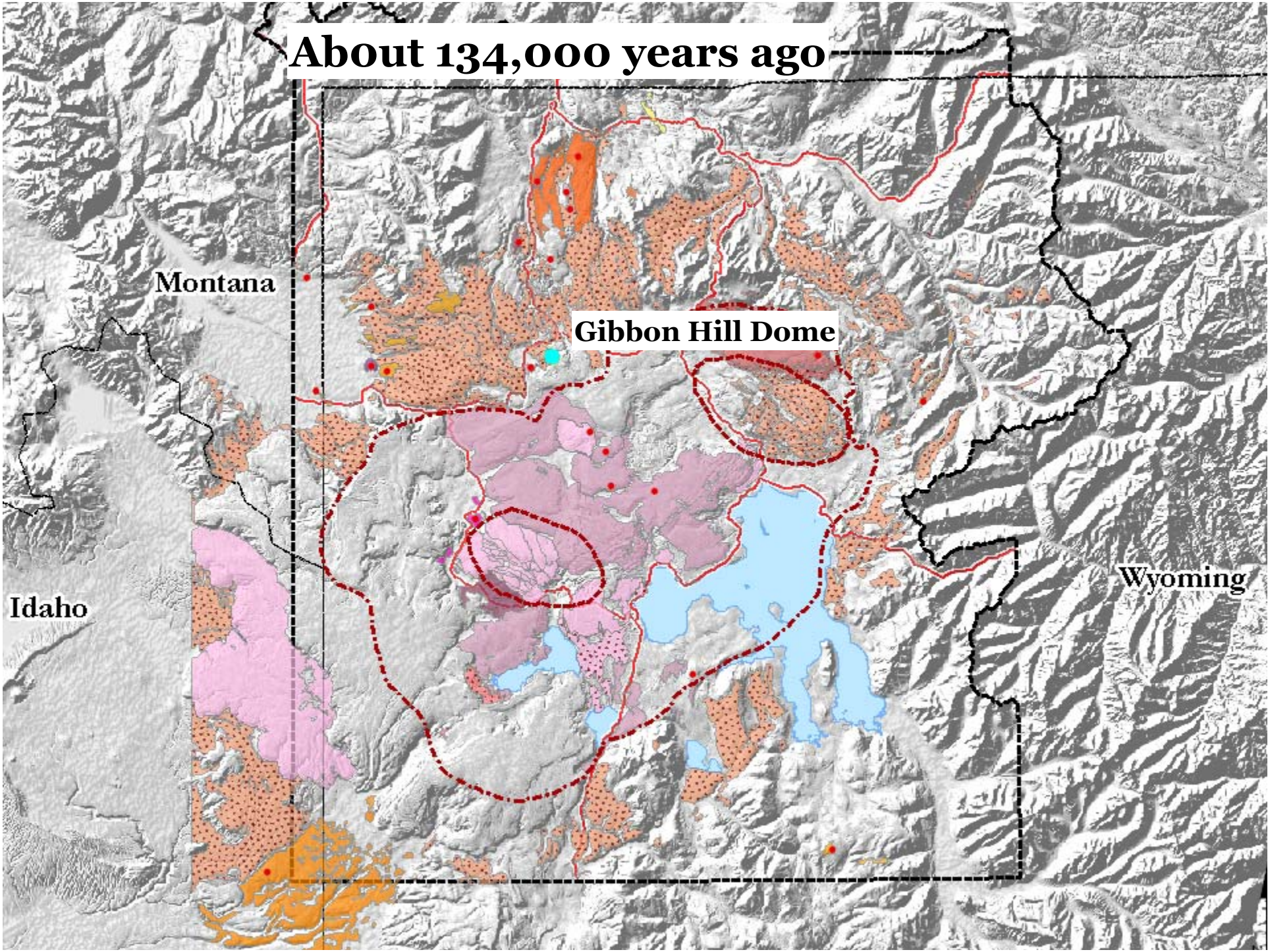

About 223,000 years ago
Osprey Basalt
Landmark Dome
Montana
Idaho
Wyoming

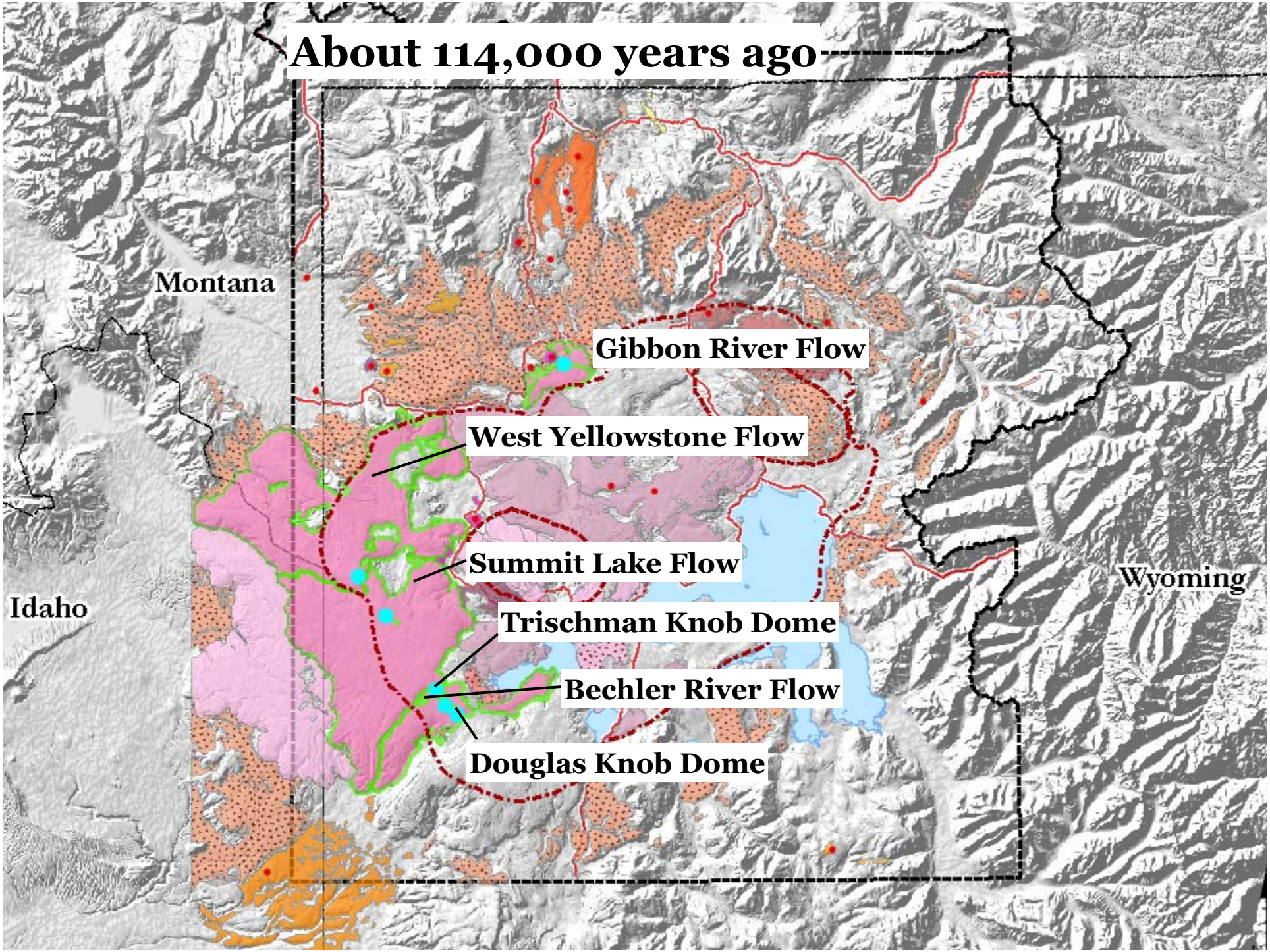

About 208,000 years ago
Montana
Paintpot Hill Dome
Idaho
Wyoming

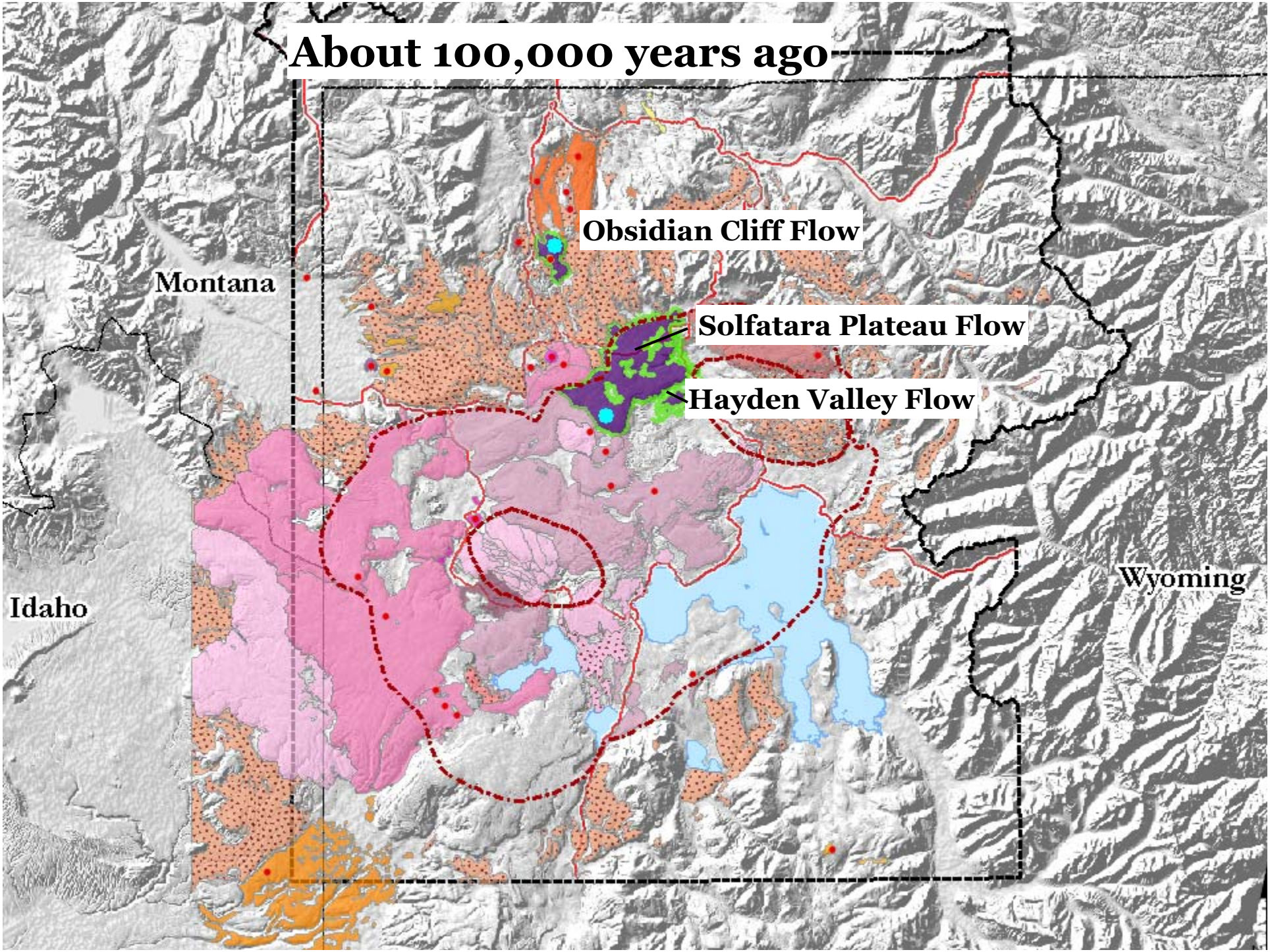

About 164,000 years ago
Montana
Idaho
Wyoming
Mary Lake Flow
Mallard Lake Flow
West Thumb Flow
Mallard Lake Resurgent Dome
Buffalo Lake Flow
Dry Creek Flow
Tuff of Bluff Point

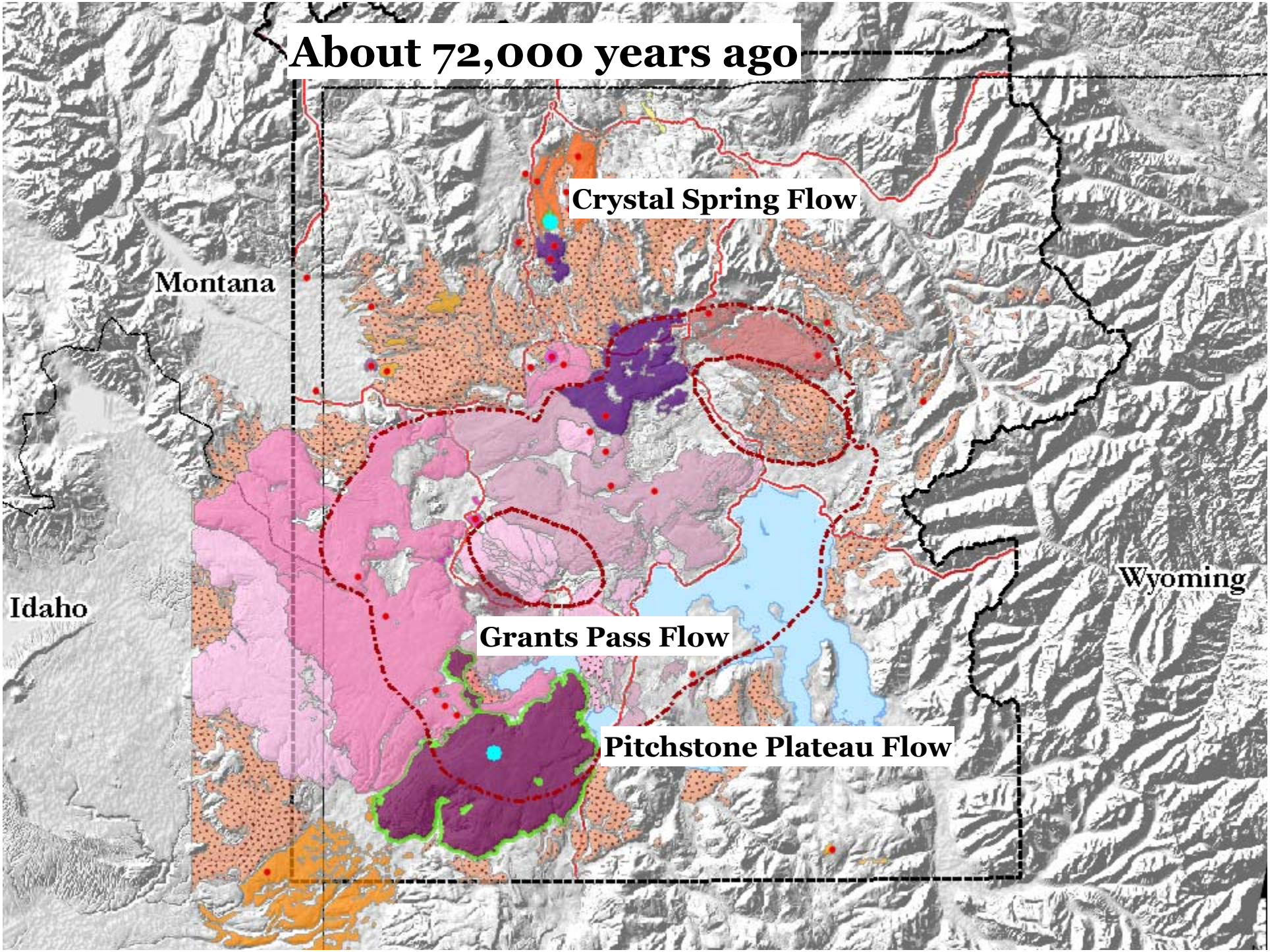

About 152,000 years ago
Montana
Nez Perce Creek Flow
Spruce Creek Flow
Elephant Back Flow
Wyoming
Idaho
Spring Creek Flow
Aster Creek Flow

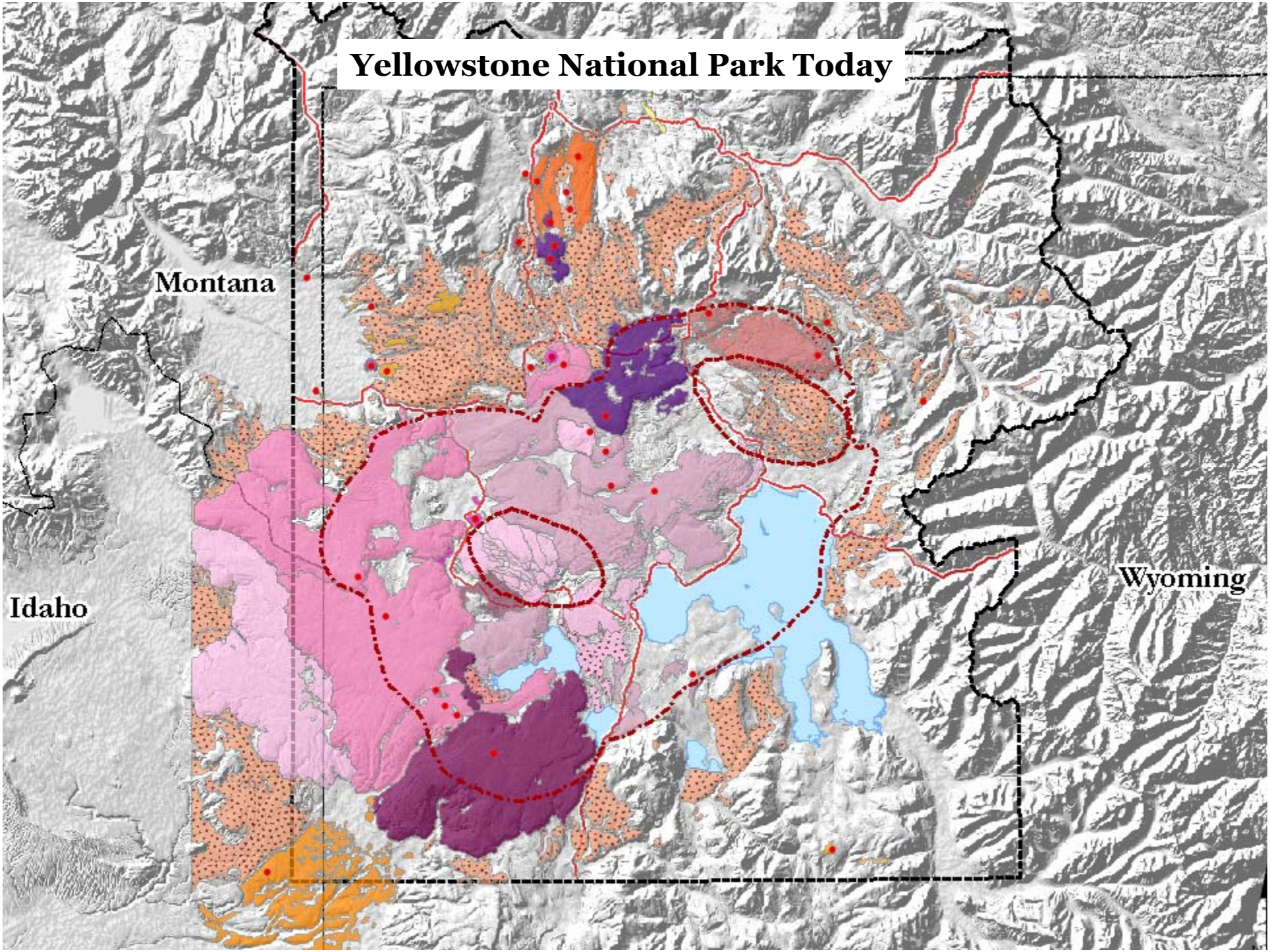

About 143,000 years ago
Montana
Idaho
Wyoming
Tuff of Cold Mountain Creek


About 134,000 years ago
Montana
Gibbon Hill Dome
Idaho
Wyoming


About 114,000 years ago
Montana
Gibbon River Flow
West Yellowstone Flow
Summit Lake Flow
Idaho
Wyoming
Trischman Knob Dome
Bechler River Flow
Douglas Knob Dome


About 100,000 years ago
Obsidian Cliff Flow
Montana
Solfatara Plateau Flow
Hayden Valley Flow
Idaho
Wyoming


About 72,000 years ago
Crystal Spring Flow
Montana
Idaho
Wyoming
Grants Pass Flow
Pitchstone Plateau Flow


Yellowstone National Park Today
Montana
Idaho
Wyoming

Sources:

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