Segmentation of the Wasatch fault zone, Utah--summaries, analyses, and interpretations of geological and geophysical data

U.S. G.P.O. - Geometry and development of normal faults

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The Wasatch fault zone, utah—segmentation and history of Holocene earthquakes

Each block green lines is labelled with its name red letters and reduced chi-square red number fit of the velocities. Measuring earthquake slip histories on different timescales is challenging due to earthquake repeat-times being longer or similar to historical earthquake records, and a paucity of data on fault activity covering millennial to Quaternary scales in detail.

Geologic context of geodetic data across a Basin and Range normal fault, Crescent Valley, Nevada

Shaded tectonic provinces and geologic features: CTB, Centennial Tectonic Belt in yellow; CSZ, Centennial Shear Zone in blue; HLP, High Lava Plains in orange; IB, Idaho Batholith ; in salmon; ISB, Intermountain Seismic Belt in green; ESRP, Eastern Snake River Plain; CSRP, Central Snake River Plain; and WSRP, Western Snake River Plain in grey; BFZ, Brothers Fault Zone ; GB, Great Basin; OIG, Oregon-Idaho Graben ; OP, Owyhee-Oregon Plateau ; RM, Rocky Mountains; YP, Yellowstone Plateau; Quaternary faults thin black lines ; labels for Holocene normal faults thick black lines include BH, Beaverhead; CN, Centennial; LH, Lemhi; LR, Lost River; MD, Madison; ST, Sawtooth; TN, Teton, and WS, Wasatch; volcanic rift zones blue-grey adapted from with a label for the Holocene Great Rift GR ; Holocene and Late Pleistocene volcanoes pink triangles; with a label for the Holocene Shoshone volcano SH ; and inferred calderas brown shaded circular regions with age in Ma along the NE-trending track of the Yellowstone hotspot ;. The first two regressions were calculated through the eastern four sites. Note that problems with the static correction solution seem to persist over the range of CDPs 2400—2600 for the shallow section above the SDR.

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After the 2016—2017 seismic sequence, Porreca et al.

Analyzing shallow faulting at a site in the Wasatch fault zone, Utah, USA, by integrating seismic, gravity, magnetic, and trench data

Global research has already resulted in several databases and models presenting location, characteristics and kinematic behavior of such faults e. The has been formally approved by the at the 35th General Assembly, held in Trieste, Sept 2016.

BARGEN continuous GPS data across the eastern Basin and Range province, and implications for fault system dynamics

The deeper portion of the SDR west of CDP 2600 now follows a mostly straight west-dipping line on the travel-time section , whereas the shallower portion east of CDP 2600 dips less steeply. Shear along its boundaries separates the Snake River Plain from the adjacent actively extending Intermountain Seismic Belt thick yellow lines and Centennial Tectonic Belt yellow shading.

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We lack sufficient velocities to separately calculate a strain rate in the IBat block, but magnitudes of six velocities across this block suggest extension is not similar to that in the adjacent Centennial Tectonic Belt. Outside of the Snake River Plain, we separate recognized tectonic provinces and assess the significance of these boundaries. Note the lateral changes in noise character as expressed by mottled colored zones replacing black above and below the SDR e.

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We stress that our depth conversion should not be considered robust because good velocity constraints are lacking. Lava flows of the Pavant field 128 ka have been offset 18. It underlies an urban corridor of 1.

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