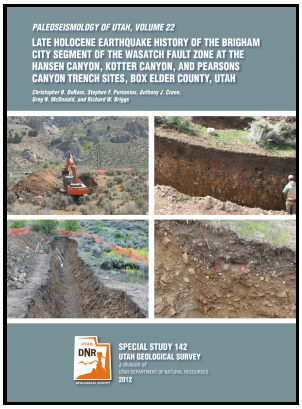
Segmentation of the Wasatch fault zone, Utah--summaries, analyses, and interpretations of geological and geophysical data

U.S. G.P.O. - Analyzing shallow faulting at a site in the Wasatch fault zone, Utah, USA, by integrating seismic, gravity, magnetic, and trench data



Description: -
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Economic policy -- Environmental aspects.
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Faults (Geology) -- Utah.Segmentation of the Wasatch fault zone, Utah--summaries, analyses, and interpretations of geological and geophysical data
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At each active centre, mafic crustal intrusions produced large-volume silicic eruptions that were subsequently covered by basaltic volcanism e.

Abstract

This section is displayed in with no further processing.

new interpretation of deformation rates in the Snake River Plain and adjacent basin and range regions based on GPS measurements

This function does not show apparent geologic dip in the usual sense, but rather relates to the change in the depth of the SDR between each CDP sample a nominal distance of 50.

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This limiting number is picked by eyeball. The strongest main shock M w 6.

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The first 18 sites, in an east—west transect from central Utah to eastern California near latitude 40°N, began recording site positions in 1996 ; , ,. Improving seismic risk estimates in such places requires the use of i informative databases of active faults and ii the implementation of appropriate building-codes. The fault is imaged as a gradual velocity variation, while the raypath matrix is characterized by a nearly uniform distribution of rays.

Reanalysis of the COCORP Utah Line 1 deep seismic reflection profile: Toward an improved understanding of the Sevier Desert detachment question

Solid grey lines emphasize velocity steps and show the velocities along the profiles used to estimate slip rates for right-lateral shear. . These formal errors, which are based on uncertainties in receiver timing, phase measurement, satellite position, Earth orientation, atmospheric effects and other factors, may underestimate the true errors in velocity and position because monument stability e.

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This type of data, if calibrated with deep well stratigraphy, provides very strong constraints on the definition of subsurface geological architecture. Fluvial cave sediments and an interbedded carbonate flowstone yield a paleomagnetic and U—Th depositional age of 350 to 780 ka.

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