Additional Resources

Stein, R.S. and R.C. Bucknam (1986). Quake replay in the Great Basin, *Natural History*, vol. 95, p. 28-35.

Info Categories: E, G, P, S

Stover, C.W. and J.L. Coffman (1993). Earthquakes in Idaho, in Seismicity of the United States, 1568-1989 (Revised), U.S. Geological Survey Professional Paper 1527, p. 215-221.

Info Categories: B, G, P

Thiel, Jr., C.C. (Editor) (1985). The Borah Peak, Idaho earthquake of October 28, 1983 [Special issue]. *Earthquake Spectra*, vol.2, no.1, 237 pp. https://doi.org/10.1193/1.1585297 <u>Info Categories</u>: B, E, G, I, L, P

See also

Pollitz, F.F., Wicks, C., Yeck, W.L. and Evans, J., 2019. Fault slip associated with the 2 September 2017 M 5.3 Sulphur Peak, Idaho, earthquake and aftershock sequence, *Bull. seism. Soc. Am.*, 109, 3, 875-887, DOI:10.1785/0120180206

Ran, H. and Wu, G., 2019. Seismicity around Late Quaternary Active Faults in China, *Bull. seism. Soc. Am.*, 109, 4, 1498-1523, DOI:10.1785/0120180340

Iezzi, F., Mildon, Z., Walker, J.F., Roberts, G., Goodall, H., Wilkinson, M. and Robertson, J., 2018. Coseismic throw variation across along-strike bends on active normal faults: implications for displacement versus length scaling of earthquake ruptures, *J. geophys. Res.*, 123, 11, 9817-9841, DOI:10.1029/2018JB016732

Pang, G., Koper, K.D., Stickney, M.C., Pechmann, J.C., Burlacu, R., Pankow, K.L., Payne, S. and Benz, H.M., 2018. Seismicity in the Challis, Idaho, region, Januray 2014-2017: Late aftershocks of the 1983 Ms 7.3 Borah Peak earthquake, *Seismol. Res. Lett.*, 89, 4, 1366-1378, DOI:10.1785/0220180058

Bekker, M.F., Metcalf, D.P. and Harley, G.L., 2018. Hydrology and hillslope processes explain spatial variation in tree-ring responses to the 1983 earthquake at Borah Peak, Idaho, USA, *Earth Surf. Processes Landforms*, 43, 15, 3074-3085, DOI:10.1002/esp.4470

Thackray, G.D., Rodgers, D.W. and Streutker, D., 2013. Holocene scarp on the Sawtooth fault, central Idaho, USA, documented through lidar topographic analysis, *Geology*, 41, 6, 639-642, DOI:10.1130/G34095.1

Carpenter, N.S., Payne, S.J. and Schafer, A.L., 2012. Toward Reconciling Magnitude Discrepancies Estimated from Paleoearthquake Data, *Seismol. Res. Lett.*, 83, 3, 555-565, DOI:10.1785/gssrl.83.3.555

Resor, P.G. and Pollard, D.D., 2012. Reverse drag revisited: Why footwall deformation may be the key to inferring listric fault geometry, *J. Struct. Geol.*, 41, 98-109, DOI:10.1016/j.jsg.2011.10.012

Payne, S.J., Zollweg, J.E. and Rodgers, D.W., 2004. Stress Triggering of Conjugate Normal Faulting: Late Aftershocks of the 1983 Ms 7.3 Borah Peak, Idaho, Earthquake, *Bull. seism. Soc. Am.*, 94, 3, 828-844, DOI:10.1785/0120030122

Caskey, S.J. and Ramelli, A.R., 2004. Tectonic displacement and far-field isostatic flexure of pluvial lake shorelines, Dixie Valley, Nevada, *J. Geodyn.*, 38, 2, 131-145, DOI:10.1016/j.jog.2004.06.001

Mai, P.M. and Beroza, G.C., 2000. Source Scaling Properties from Finite-Fault-Rupture Models, *Bull. seism. Soc. Am.*, 90, 3, 604-615, DOI:10.1785/0119990126

Somerville, P.G., Irikura, K., Graves, R., Sawada, S., Wald, D., Abrahamson, N., Iwasaki, Y., Kagawa, T., Smith, N. and Kowada, A., 1999. Characterizing Crustal Earthquake Slip Models for the Prediction of Strong Ground Motion, *Seismol. Res. Lett.*, 70, 1, 59-80, DOI:10.1785/gssrl.70.1.59

Aki, K., 1995. Interrelation between fault zone structures and earthquake processes, *Pure appl. Geophys.*, 145, 3-4, 647-676, DOI:10.1007/BF00879594

Heaton, T.H., 1995. Urban earthquakes, *Seismol. Res. Lett.*, 66, 5, 37-40, DOI:10.1785/gssrl.66.5.37

Byrd, J.O.D., Smith, R.B. and Geissman, J.W., 1994. The Teton fault, Wyoming: topographic signature, neotectonics, and mechanisms of deformation,*J. geophys. Res., B*, 99, 10, 20095-20122, DOI:10.1029/94JB00281

Janecke, S.U., 1993. Structures in segment boundary zones of the Lost River and Lemhi faults, east central Idaho, *J. geophys. Res., B,* 98, 9, 16223-16238, DOI:10.1029/93JB01431

Pantosti, D. and Yeats, R.S., 1993. Paleoseismology of great earthquakes of the late Holocene, *Annali Geofis.*, 36, 3-4, 237-257.

West, M.W., 1992. An integrated model for seismogenesis in the intermountain seismic belt, *Bull. seism. Soc. Am.*, 82, 3, 1350-1372.

Du, Y., Aydin, A. and Segall, P., 1992. Comparison of various inversion techniques as applied to the determination of a geophysical deformation model for the 1983 Borah Peak earthquake, *Bull. seism. Soc. Am.*, 82, 4, 1840-1866.

Wu, M., Rudnicki, J.W., Kuo, C.H. and Keer, L.M., 1991. Surface deformation and energy release rates for constant stress drop slipzones in a elastic half-space, *J. geophys. Res., B*, 96, 10, 16509-16524, DOI:10.1029/91JB01043

Bruhn, R.L., Yang, Z-E., Wu, D-N. and Yonkee, W.A., 1991. Structure of the Warm Spring and Northern Thousand Springs fault segments, Lost River fault zone, Idaho: possible effects on rupturing during the 1983 Borah Peak earthquake, *Tectonophysics,* 200, 1-3, 33-49, DOI:10.1016/0040-1951(91)90004-C

Janecke, S.U., Geissman, J.W. and Bruhn, R.L., 1991. Localized rotation during Paleogene extension in east central Idaho: paleomagnetic and geologic evidence, *Tectonics,* 10, 2, 403-432, DOI:10.1029/90TC02465

Melosh, H.J., 1990. Mechanical basis for low-angle normal faulting in the Basin and Range province, *Nature*, 343, 6256, 331-335, DOI:10.1038/343331a0

Doser, D.I., 1990. Foreshocks and aftershocks of large ($M \ge 5.5$) earthquakes within the western cordillera of the United States, *Bull. seism. Soc. Am.*, 80, 1, 110-128.

Susong, D.D., Janecke, S.U. and Bruhn, R.L., 1990. Structure of a fault segment boundary in the Lost River fault zone, Idaho, and possible effect on the 1983 Borah Peak earthquake rupture, *Bull. seism. Soc. Am.*, 80, 1, 57-68.

Ekstrom, G., 1989. A very broad band inversion method for the recovery of earthquake source parameters, *Tectonophysics*, 166, 1-3, 73-100, DOI:10.1016/0040-1951(89)90206-0

Doser, D.I. and Smith, R.B., 1989. An assessment of source parameters of earthquakes in the cordillera of the western United States, *Bull. seism. Soc. Am.*, 79, 5, 1383-1409.

Lynnes, C.S. and Lay, T., 1988. Analysis of amplitude and travel time anomalies for short-period P-waves from NTS explosions, *Geophys. J.*, 92, 431-443.

Mendoza, C. and Hartzell, S.H., 1988. Inversion for slip distribution using teleseismic P waveforms: North Palm Springs, Borah Peak, and Michoacan earthquakes, *Bull. seism. Soc. Am.*, 78, 3, 1092-1111.

Patton, H.J. and Doser, D.I., 1988. Inversion of regional Pn1 and surface-wave data for source parameters of a Borah Peak aftershock, *Geophys. Res. Lett.*, 15, 5, 459-462, DOI:10.1029/GL015i005p00459

Baker, M.R. and Doser, D.I., 1988. Joint inversion of regional and teleseismic earthquake waveforms, *J. geophys. Res., B,* 93, 3, 2037-2045, DOI:10.1029/JB093iB03p02037

Ambraseys, N.N., 1988. Engineering seismology: Part II, *Earthq. Engng struct. Dyn.,* 17, 1, 51-105, DOI:10.1002/eqe.4290170102

Machette, M.N., 1987. Documentation of benchmark photographs that show the effects of the 1983 Borah Peak earthquake with some considerations for studies of scarp degradation, *Bull. seism. Soc. Am.*, 77, 3, 771-783.

Barrientos, S.E., Stein, R.S. and Ward, S.N., 1987. Comparison of the Hebgen Lake, Montana and the 1983 Borah Peak, Idaho, earthquakes from geodetic observations, *Bull. seism. Soc. Am.*, 77, 3, 784-808.

King, J.J., Doyle, T.E. and Jackson, S.M., 1987. Seismicity of the eastern Snake River Plain region, Idaho, prior to the Borah Peak, Idaho earthquake: October 1972-October 1983, *Bull. seism. Soc. Am.*, 77, 3, 809-818.

Dewey, J.W., 1987. Instrumental seismicity of central Idaho, *Bull. seism. Soc. Am.*, 77, 3, 819-836.

Hanks, T.C. and Schwartz, D.P., 1987. Morphologic dating of the pre-1983 fault scarp on the Lost River fault at Doublespring Pass Road, Custer County, Idaho, *Bull. seism. Soc. Am.*, 77, 3, 837-846.

Malde, H.E., 1987. Quaternary faulting near Arco and Howe, Idaho, *Bull. seism. Soc. Am.*, 77, 3, 847-867.

Wallace, R.E., 1987. Grouping and migration of surface faulting and variations in slip rate on faults in the Great Basin province, *Bull. seism. Soc. Am.*, 77, 3, 868-876.

Meyer, R.P. and James, D.E., 1987. Seismic reflection studies using local earthquake sources, *Geophys. J. R. astr. Soc.*, 89, 1, 27-34, DOI:10.1111/j.1365-246X.1987.tb04383.x

Zhuo, Y.R. and Kanamori, H., 1987. Regional variation of the short-period (1 to 10 sec) source spectrum, *Bull. seism. Soc. Am.*, 77, 2, 514-529.

Bucknam, R.C. and Stein, R.S., 1987. Preface to collection of papers on the 1983 Borah Peak, Idaho, earthquake, *Bull. seism. Soc. Am.*, 77, 3, 691-693.

Richins, W.D., Pechmann, J.C., Smith, R.B., Langer, C.J., Goter, S.K., Zollweg, J.E. and King, J.J., 1987. The 1983 Borah Peak, Idaho, earthquake and its aftershocks, *Bull. seism. Soc. Am.*, 77, 3, 694-723.

Jackson, S.M. and Boatwright, J., 1987. Strong ground motion in the 1983 Borah Peak, Idaho, earthquake and its aftershocks, *Bull. seism. Soc. Am.*, 77, 3, 724-738.

Crone, A.J., Machette, M.N., Bonilla, M.G., Lienkaemper, J.J., Pierce, K.L., Scott, W.E. and Bucknam, R.C., 1987. Surface faulting accompanying the Borah Peak earthquake and segmentation of the Lost River fault, central Idaho, *Bull. seism. Soc. Am.*, 77, 3, 739-770.

Cao, T. and Aki, K., 1986. Effect of slip rate on stress drop, *Pure appl. Geophys.*, 124, 3, 515-529, DOI:10.1007/BF00877214

Ward, S.N. and Barrientos, S.E., 1986. An inversion for slip distribution and fault shape from geodetic observations of the 1983 Borah Peak, Idaho, earthquake, *J. geophys. Res., B*, 91, 5, 4909-4919, DOI:10.1029/JB091iB05p04909

Wesnousky, S.G., 1986. Earthquakes, quaternary faults, and seismic hazard in California, *J. geophys. Res.*, 91, B12, 12587-12631, DOI:10.1029/jb091ib12p12587

Freeman, K.J., Fuller, S. and Schell, B.A., 1986. The use of surface faults for estimating design earthquakes; implications of the 28 October 1983 Idaho earthquake, *Bull. Ass. Engng Geol.* 23, 3, 325-332.

Tanimoto, T. and Kanamori, H., 1986. Linear programming approach to moment tensor inversion of earthquake sources and some tests on the three-dimensional structure of the upper mantle, *Geophys. J. R. astr. Soc.*, 84, 2, 413-430, DOI:10.1111/j.1365-246X.1986.tb04363.x

Kanamori, H. and Allen, C.R., 1986. Earthquake repeat time and average stress drop, *Earthquake Source Mechanics (eds S. Das, J. Boatwright, C.H. Scholz), American Geophysical Union, Washington, D.C.*, 227-235, DOI:10.1029/GM037p0227

Stein, R.S. and Bucknam, R.C., 1985. The Basin and Range viewed from Borah Peak, Idaho, *Earthq. Inf. Bull.* 17, 3, 98-105.

Ekström, G. and Dziewonski, A.M., 1985. Centroid-moment tensor solutions for 35 earthquakes in Western North America (1977-1983), *Bull. seism. Soc. Am.*, 75, 1, 23-39.

1985. The Borah Peak, Idaho earthquake of October 28, 1983, *Earthq. Spectra,* 2, 1, 1-237, DOI:10.1193/1.1585297

Whitehead, R.L., Harper, R.W. and Sisco, H.G., 1985. Hydrologic changes associated with the October 28, 1983 Idaho earthquake, *Pure appl. Geophys.*, 122, 2-4, 280-293, DOI:10.1007/BF00874599

Stein, R.S. and Bucknam, R.C., 1985. Proceedings of workshop XXVIII on the Borah Peak, Idaho earthquake; Volume B, Fault scarps, landslides and other features associated with the Borah Peak earthquake of October 28, 1983, central Idaho: a field trip guide, *USGS Open-File Report*, 85-290, B, 23 p., DOI:10.3133/ofr85290B

Stein, R.S. and Bucknam, R.C., 1985. Proceedings of workshop XXVIII on the Borah Peak, Idaho earthquake, *USGS Open-File Report,* 85-290, A, 685 p., DOI:10.3133/ofr85290a

Stein, R.S. and Barrientos, S.E., 1985. Planar high-angle faulting in the Basin and Range: geodetic analysis of the 1983 Borah Peak, Idaho, earthquake, *J. geophys. Res.,* 90, 13, 11355-11366, DOI:10.1029/JB090iB13p11355

Stein, R.S. and Bucknam, R.C., 1985. Basin and Range viewed from Borah Peak, *EOS. Trans. Am. geophys. Un.*, 66, 34, 603, DOI:10.1029/EO066i034p00603-01

Boatwright, J., 1985. Characteristics of the aftershock sequence of the Borah Peak, Idaho, earthquake determined from digital recordings of the events, *Bull. seism. Soc. Am.*, 75, 5, 1265-1284.

Scott, W.E., Pierce, K.L. and Hait, M.H., 1985. Quaternary tectonic setting of the 1983 Borah Peak earthquake, central Idaho, *Bull. seism. Soc. Am.*, 75, 4, 1053-1066.

Doser, D.I. and Smith, R.B., 1985. Source parameters of the 28 October 1983 Borah Peak, Idaho, earthquake from body wave analysis, *Bull. seism. Soc. Am.*, 75, 4, 1041-1051.

1984. Idaho earthquake of October 28, 1983, *Earthq. Inf. Bull.* 16, 1, 10-11.

Crone, A.J. and Machette, M.N., 1984. Surface faulting accompanying the Borah Peak earthquake, central Idaho, *Geology*, 12, 11, 664-667, DOI:10.1130/0091-7613(1984)12<664:SFATBP>2.0.CO;2

Wallace, R.E., 1984. Eyewitness account of surface faulting during the earthquake of 28 October 1983, Borah Peak, Idaho, *Bull. seism. Soc. Am.*, 74, 3, 1091-1094.

Pelton, J.R., Meissner, C.W. and Smith, K.D., 1984. Eyewitness account of normal surface faulting, *Bull. seism. Soc. Am.*, 74, 3, 1083-1089.

Gorman, V.W. and Guenzler, R.C., 1983. The 1983 Borah Peak earthquake and INEL structural performance, .

Included in:

International Seismological Centre (2020), On-line Event Bibliography, https://doi.org/10.31905/EJ3B5LV6

Di Giacomo, D., Storchak, D.A., Safronova, N., Ozgo, P., Harris, J., Verney, R. and Bondár, I., 2014. A New ISC Service: The Bibliography of Seismic Events, Seismol. Res. Lett., 85, 2, 354-360, doi:10.1785/0220130143

Information Categories

A -- Aid:

provide medical services, shelter, donations, loans, advice, encouragement, implement safety measures

B -- Building Damage:

structure itself plus windows and chimneys (typically damage visible from outside the building)

E -- Earthquake Description:

where, when, duration, direction, sound, motion, number and timing of aftershocks

G -- Geologic Effects:

changes at the Earth's surface, fault scarps, rockfalls, landslides, ground cracks, ground subsidence, sand boils, water spouts; effects on springs, lakes, wells

H -- Humor:

I -- Impact:

changes in daily routine; rumors; influx of reporters, politicians, cost in dollars

L -- Lifelines:

effects on transportation: roads, bridges, railroads, airports effects on communications: telephone, telegraph effects on power, gas, water, and sewer lines effects on dams

N -- Nonstructural Effects:

effects on plaster, furnishings (typically damage or rearrangement of furnishings visible inside a building)

P -- People:

effects on and responses to, during and after; deaths, injuries, near misses

R -- Recovery:

clean up, rebuild

S -- Scientific:

explanation of the day

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