



PUBLICATIONS OF THE WESTERN EARTH SURFACE PROCESSES TEAM 2000

Compiled by Charles L. Powell, II¹ and Paul Stone¹

Open-file Report 01-198

2001

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic Code. Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government

U. S. DEPARTMENT OF THE INTERIOR

U. S. GEOLOGICAL SURVEY

¹U. S. Geological Survey, 345 Middlefield Rd., Menlo Park, CA 94025

INTRODUCTION

The Western Earth Surface Processes Team (WESP) of the U.S. Geological Survey (USGS) conducts geologic mapping and related topical earth science studies in the western United States. This work is focused on areas where modern geologic maps and associated earth-science data are needed to address key societal and environmental issues such as ground-water quality, potential geologic hazards, and land-use decisions. Areas of primary emphasis in 2000 included southern California, the San Francisco Bay region, the Pacific Northwest, the Las Vegas urban corridor, and selected National Park lands. The team has its headquarters in Menlo Park, California, and maintains smaller field offices at several other locations in the western United States.

The results of research conducted by the WESPT are released to the public as a variety of databases, maps, text reports, and abstracts, both through the internal publication system of the USGS and in diverse external publications such as scientific journals and books. This report lists publications of the WESPT released in 2000 as well as additional 1999 publications that were not included in the previous list (USGS Open-file Report 00-215). Most of the publications listed were authored or coauthored by WESPT staff. The list also includes some publications authored by non-USGS cooperators with the WESPT, as well as some authored by USGS staff outside the WESPT in cooperation with WESPT projects.

Several of the publications listed are available on the World Wide Web; for these, URL addresses are provided. Many of these Web publications are USGS open-file reports that contain large digital databases of geologic map and related information.

Information on ordering USGS publications can be found on the World Wide Web at http://www.nmd.usgs.gov/esic/to_order.html, or by calling 1-800-HELP-MAP. The U.S. Geological Survey's web server for geologic information in the western United States is located at <http://geology.wr.usgs.gov>.

ADDITIONAL 1999 PUBLICATIONS

Fridrich, C.J., Minor, S.A., and Mankinen, E.A., 1999, Geologic evaluation of the Oasis Valley basin, Nye County, Nevada: U.S. Geological Survey Open-file Report 99-533-A, 55 p., <http://www.osti.gov/bridge>.

Walsh, T.J., Korosec, M.A., Phillips, W.M., Logan, R.L., Schasse, H.W., Meagher, K.L., and Haugerud, R.A., 1999, Geologic map of Washington - southwest quadrant (digital edition): U. S. Geological Survey Open-file Report 99-382, 15 p., scale 1:250,000, <http://geopubs.wr.usgs.gov/open-file/of99-382>.

2000 PUBLICATIONS

Alexeiev, D.V., Cook, H.E., Mikolaichuk, A.V., and Dzhenchuraeva, A.V., 2000, Upper Devonian through Lower Permian carbonates in the middle Tian-Shan Mountains of Kyrgyzstan: new data on the evolution of passive margin carbonate platforms of the Kazakhstania paleocontinent [abs.]: SEPM - IAS Permo-Carboniferous Research Conference, May 2000, Program and Abstract Volume, p. 19.

Anderson, M.L., Jachens, R.C., and Matti, J.C., 2000, Structural model of the San Bernardino strike-slip basin, southern California, from regional gravity and aeromagnetic data [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-429.

Anderson, M.L., Roberts, C.W., and Jachens, R.C., 2000, Principal facts for gravity stations in the vicinity of San Bernardino, southern California: U.S. Geological Survey Open-file Report 00-193, 32 p., <http://geopubs.wr.usgs.gov/open-file/of00-193>.

Billingsley, G.H., and Hampton, H.M., 2000, Geologic map of the Grand Canyon 30' x 60' quadrangle, Coconino and Mohave Counties, northwestern Arizona: U.S. Geological Survey Geologic Investigations Series I-2688, 15 p., scale 1:100,000, <http://greenwood.cr.usgs.gov/pub/i-maps/i-2688>.

Billingsley, G.H., Harr, M., and Wellmeyer, J.L., 2000, Geologic map of the upper Parashant Canyon and vicinity, Mohave County, northwestern Arizona: U.S. Geological Survey Miscellaneous Field Studies MF-2343, 27 p., scale 1:31,680, <http://geopubs.wr.usgs.gov/map-mf/mf2343>.

Billingsley, G.H., Wenrich, K.J., and Huntoon, P.W., 2000, Breccia-pipe and geologic map of the southeastern part of the Hualapai Indian Reservation and vicinity, Arizona: U. S. Geological Survey Geologic Investigations Series I-2643, 18 p., scale 1:48,000.

- Billingsley, G.H., and Workman, J.B., 2000, Geologic map of the Littlefield 30' x 60' quadrangle, Mohave County, northwestern Arizona: U.S. Geological Survey Geologic Investigations Series I-2628, scale 1:100,000, <http://geopubs.wr.usgs.gov/i-map/i2628>.
- Bird, K.J., 2000, Alaska, 21st Century petroleum province [abs.]: American Association of Petroleum Geologists Bulletin, v. 83, no. 12, p. 2033.
- Blake, M.C., Jr., Graymer, R.W., and Jones, D.L., 2000, Geologic map and map database of parts of Marin, San Francisco, Alameda, Contra Costa, and Sonoma Counties, California: U.S. Geological Survey Miscellaneous Field Studies MF-2337, 20 p., scale 1:75,000, <http://geopubs.wr.usgs.gov/map-mf/mf2337>.
- Blake, M.C., Jr., Harwood, D.S., Helley, E.J., Irwin, W.P., Jayko, A.S., and Jones, D.L., 2000, Geologic map of the Red Bluff 30' x 60' quadrangle, California: U. S. Geological Survey Geologic Investigations Series I-2542, 15 p., scale 1:100,000, <http://geopubs.wr.usgs.gov/i-map/i2542>.
- Blakely, R.J., Brocher, T.M., Parsons, T.E., Langenheim, V.E., and Ten Brink, U.S., 2000, The Seattle basin: a three-dimensional model based on density and seismic velocity [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 6, p. A-4.
- Blakely, R.J., Christiansen, R.L., Ramsey, D.W., Smith, J.G., and Donnelly-Nolan, J.M., 2000, A three-dimensional view of Mt. Shasta, California, based on inversion of gravity anomalies [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-430.
- Blakely, R.J., Langenheim, V.E., Ponce, D.A., and Dixon, G.L., 2000, Aeromagnetic survey of the Amargosa Desert, Nevada and California: a tool for understanding near-surface geology and hydrology: U.S. Geological Survey Open-file Report 00-188, 29 p., <http://geopubs.wr.usgs.gov/open-file/of00-188>.
- Blakely, R.J., Wells, R.E., Tolan, T.L., Beeson, M.H., Trehu, A.M., and Liberty, L.M., 2000, New aeromagnetic data reveal large strike-slip (?) faults in the northern Willamette Valley, Oregon: Geological Society of America Bulletin, v. 112, no. 8, p. 1225-1233.
- Bogue, S.W., Glen, J.M.G., and Gromme, S., 2000, Miocene R-N(?) geomagnetic reversal recorded by lava flows, Sheep Creek Range, north central

- Nevada [abs.]: Eos, Transactions, American Geophysical Union, v. 81, no. 48, supplement, p. F353.
- Bonilla, M.G., Jachens, R.C., Jayko, A.S., Wentworth, C.M., and McGarr, A.F., 2000, The demise of the San Bruno Fault: California Geology, v. 53, no. 2, p. 4-19.
- Brabb, E.E., Graymer, R.W., and Jones, D.L., 2000, Geologic map and map database of the Palo Alto 30' x 60' quadrangle, California: U.S. Geological Survey Miscellaneous Field Studies MF-2332, 30 p., scale 1:100,000, <http://greenwood.cr.usgs.gov/pub/mf-maps/mf-2332>.
- Castle, R.O., Packard, R.F., and Dinitz, L.B., 2000, Height changes in the epicentral region preceding the January 17, 1994 Northridge earthquake: U. S. Geological Survey Open-file Report 00-002, 16 p., <http://geopubs.wr.usgs.gov/open-file/of00-002>.
- Clark, J.C., Brabb, E.E., and Rosenberg, L.I., 2000, Geologic map and map database of the Spreckels 7.5-minute quadrangle, Monterey County, California: U.S. Geological Survey Miscellaneous Field Studies MF-2349, 22 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/map-mf/mf2349>.
- Cook, H.E., Zempolich, W.G., Zhemchuzhnikov, V.G., Lehmann, P.J., Alexeiev, D.V., and Zhaimina, V.Ya., 2000, Late Devonian and Carboniferous carbonate platforms in the Bolshoi Karatau (northern Tien-Shan) of southern Kazakstan: outcrop analogs for coeval north Caspian Basin carbonate reservoirs [abs.]: SEPM - IAS Permo-Carboniferous Research Conference, May 2000, Program and Abstract Volume, p. 43.
- Cook, H.E., Zhemchuzhnikov, V.G., Zempolich, W.G., Lehmann, P.J., Alexeiev, D.V., and Zhaimina, V.Ya., 2000, Paleozoic carbonate platforms in the Bolshoi Karatau of southern Kazakstan: outcrop analogs for coeval carbonate reservoirs in the north Caspian Basin [abs.]: 2000 AAPG Annual Convention, Official Program, v. 9, p. A30.
- Cook, H.E., Zhemchuzhnikov, V.G., Zempolich, W.G., Lehmann, P.J., Alexeiev, D.V., Zhaimina, V.Ya., and Zorin, A.Ya., 2000, Platform architecture and sequence stratigraphy: outcrop analogs for Caspian Basin oil and gas fields: American Association of Petroleum Geologists, International Conference, Istanbul, Turkey, July 2000, Official Program Book, p. 88-93.
- Cox, B.F. and Hillhouse, J.W., 2000, Pliocene and Pleistocene evolution of the Mojave River and associated tectonic development of the Transverse Ranges and Mojave Desert, based on borehole stratigraphy studies near

- Victorville, California: U.S. Geological Survey Open-file Report 00-147, 66 p.
- Gautier, D.L., 2000, Region 4: Europe—assessment summary, *in* USGS World Energy Assessment Team, ed., U.S. Geological Survey world petroleum assessment 2000—description and results: U.S. Geological Survey Digital Data Series 60, chap. R4, p. R4-1-14, <http://greenwood.cr.usgs.gov/energy/WorldEnergy/DDS-60>.
- Gautier, D.L., 2000, Oil and gas appraisal: diminishing reserves, increasing supplies, *in* Sarewitz, D., Pelke, R.A., Jr., and Byerly, R., Jr., eds., Prediction—science, decision making, and the future of nature: Washington, D.C., Island Press, p. 231-249.
- Glen, J.M.G., and Ponce, D.A., 2000, Large-scale geologic patterns point to the birth of a hotspot in the western U.S. [abs.]: *Eos, Transactions, American Geophysical Union*, v. 81, no. 48, supplement, p. F1217.
- Graymer, R.W., 2000, Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California: U.S. Geological Survey Miscellaneous Field Studies MF-2342, 29 p., scale 1:50,000, <http://geopubs.wr.usgs.gov/map-mf/mf2342>.
- Hagstrum, J.T., 2000, Infrasound and the avian navigational map: *Journal of Experimental Biology*, v. 203, p. 1103-1111.
- Hagstrum, J.T., and Atwater, B.F., 2000, Geomagnetic secular variation recorded by Holocene estuarine deposits related to major plate-boundary earthquakes of the Pacific Northwest [abs.]: *Eos, Transactions, American Geophysical Union*, v. 81, no. 48, supplement, p. F356.
- Haugerud, R.A., 2000, A synoptic view of Vashon glaciation: the map [abs.]: *Geological Society of America Abstracts with Programs*, v. 32, no. 6, p. A-18.
- Haugerud, R.A., 2000, A synoptic view of Vashon glaciation: the movie [abs.]: *Geological Society of America Abstracts with Programs*, v. 32, no. 6, p. A-18.
- Haugerud, R.A., 2000, Digital elevation model (DEM) of Cascadia latitude 39N - 53N, longitude 116W - 113W: U.S. Geological Survey Open-file Report 99-369, <http://geopubs.wr.usgs.gov/open-file/of99-369>.

- Haughy, R., Stevens, C.H., and Stone, P., 2000, Probable Triassic landslide breccias derived from Ely Springs Dolomite (Ordovician-Silurian) near Big Pine, California [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 6, p. A-18-19.
- Hereford, R., Burke, K.J., and Thompson, K.S., 2000, Map showing Quaternary geology and geomorphology of the Granite Park area, Grand Canyon, Arizona: U.S. Geological Survey Geologic Investigations Series I-2662, scale 1:2000, <http://geopubs.wr.usgs.gov/i-map/i2662>.
- Hereford, R., Burke, K.J., and Thompson, K.S., 2000, Map showing Quaternary geology and geomorphology of the Lees Ferry area, Arizona: U.S. Geological Survey Geologic Investigations Series I-2663, scale 1:2,000, <http://geopubs.wr.usgs.gov/i-map/i2663>.
- Hildenbrand, T.G., Berger, B., Jachens, R.C., and Ludington, S., 2000, Regional crustal structures in Nevada inferred from magnetic and gravity data and their relation to the distribution of ore deposits [abs.], *in* Geology and Ore Deposits 2000: The Great Basin and beyond: Geological Society of Nevada Symposium Proceedings May 15-18, 2000, p. A8 (CD-ROM).
- Hildenbrand, T.G., Berger, B., Jachens, R.C., and Ludington, S., 2000, Regional crustal structures and their relationship to the distribution of ore deposits in the western United States, based on magnetic and gravity data: Economic Geology, v. 95, no. 8, p. 1583-1603.
- Hildenbrand, T.G., and Stuart, W.P., 2000, Geologic structures related to New Madrid earthquakes in Arkansas and Tennessee, based on a 3D study of gravity and magnetic data [abs.]: Seismological Society of America, Seismological Research Letters, v. 71, no. 1, p. 116-117
- Howard, K.A., 2000, Geologic map of the Lamoille quadrangle, Elko County, Nevada: Nevada Bureau of Mines and Geology Map 125, scale 1:24,000.
- Howard, K.A., Blakely, R.J., and Haugerud, R.A., 2000, Neotectonics of the Portland Basin: possible uplift and offset of latest Pleistocene Missoula flood deposits near Battle Ground, Washington [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 6, p. A-20.
- Howard, K.A., Faulds, J.E., Beard, L.S., and Kunk, M.J., 2000, Reverse-drag folding across the path of the antecedent Colorado River below the mouth of the Grand Canyon [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-41.

- Howard, K.A., Nielson, J.E., Wilshire, H.G., Nakata, J.K., Goodge, J.W., Reneau, S.L., John, B.E., and Hansen, V.L., 2000, Geologic map of the Mohave Mountains area, Mohave County, western Arizona: U.S. Geological Survey Geologic Investigations Series I-2308, scale 1:48,000, <http://geopubs.wr.usgs.gov/i-map/i2308>.
- Howell, D.G., Brabb, E.E., and Ramsey, D.W., 2000, How useful is landslide hazard information? Lessons learned in the San Francisco Bay region, *in* Ernst, W.G., and Coleman, R.G., eds., *Tectonic studies of Asia and the Pacific Rim: Geological Society of America International Book Series*, v. 3, p. 315-328.
- Howell, D.G., Brunsden, D., and Lee, E.M., 2000, The coastal landslides of West Dorset, United Kingdom [abs.]: *Association of Engineering Geologists, AEG News*, v. 43, no. 4, p. 91.
- Howell, D.G., Perron, H.T., Bemis, B.L., Frew, S.L., Kennedy, D., and Dunbar, R.W., 2000, Crowding the rim: International Geohazards Summit, 2001 [abs.]: First International Global Disaster Information Network (GDIN) Information Technology Conference, 9-11 October 2000, Honolulu, Hawaii, Abstracts, p. 43.
- Howell, D.G., Pike, R.J., Graymer, R.W., and Wieczorek, G.F., 2000, Landslides and cities—an unwanted partnership [abs.]: *Eos, Transactions, American Geophysical Union*, v. 81, no. 19, supplement, p. S13.
- Huber, N.K., and Snyder, J.B., 2000, James Mason Hutchings and the Devils Postpile: *Yosemite*, v. 62, no. 1, p. 2-6.
- Jachens, R.C., Blakely, R.J., and Calzia, J.P., 2000, Geophysical expressions of magmatism and tectonics of Mojavia, California [abs.]: *Geological Society of American Abstracts with Programs*, v. 32, no. 7, p. A-396.
- Jewel, E.B., Ponce, D.A., and Morin, R.L., 2000, Principal facts for gravity stations in the Antelope Valley-Bedell Flat area, west-central Nevada: U.S. Geological Survey Open-file Report 00-506, 19 p., <http://geopubs.wr.usgs.gov/open-file/of00-506>.
- Johnsson, M.J. and Sokol, N.K., 2000, Stratigraphic variation in petrographic composition of Nanushuk Group sandstones at Slope Mountain, North Slope, Alaska, *in* Kelley, K.D., and Gough, L.P., eds., *Geologic studies in Alaska by the U.S. Geological Survey, 1998: U.S. Geological Survey Professional Paper 1615*, p. 83-100, <http://greenwood.cr.usgs.gov/pubs/ppapers/p1615>.

- Keller, M., and Macquaker, J., 2000, Rock-eval and petrographic results for a Lower Cretaceous, subsurface mudstone succession, northeastern Alaska: Implications for petroleum source potential and provenance [abs.]: American Association of Petroleum Geologists Bulletin, v. 84, no. 6, p. 877.
- Kistler, R.W. and Speed, R.C., 2000, 40-Ar/39-Ar, K-Ar, Rb-Sr whole-rock and mineral ages, chemical composition, strontium, oxygen, and hydrogen isotopic systematics of Jurassic Humboldt Lopolith and Permian(?) and Triassic Koipato Group rocks, Pershing and Churchill Counties, Nevada: U.S. Geological Survey Open-file Report 00-217, 14 p.
- Kistler, R.W., White, L.D., and Ford, A.B., 2000, Strontium and oxygen isotopic data and age for the layered gabbroic Dufek Intrusion, Antarctica: U.S. Geological Survey Open-file Report 00-133, 29 p.
- Langenheim, V.E., 2000, Constraints on the structure of Crater Flat, southwest Nevada, derived from gravity and magnetic data, chap. C of Whitney, J.W., and Keefer, W.R., eds., Geologic and geophysical characterization studies of Yucca Mountain, Nevada, a potential high-level radioactive-waste repository: U.S. Geological Survey Digital Data Series 58, 11 p., <http://greenwood.cr.usgs.gov/pub/dds/dds-058>.
- Langenheim, V.E., Blakely, R.J., Ponce, D.A., and Dixon, G.L., 2000, Aeromagnetic survey of the Amargosa Desert, Nevada and California: A tool for understanding near-surface geology and hydrology [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-429.
- Langenheim, V.E., Dixon, G.L., Katzer, T., Glen, J.M., and Jachens, R.C., 2000, Geologic and geophysical constraints on the hydrology of the Lower Virgin River Valley, Nevada-Arizona-Utah [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-253.
- Langenheim, V.E., Duval, J.S., Wirt, L., and DeWitt, E., 2000, Preliminary report on geophysics of the Verde River headwaters region, Arizona: U.S. Geological Survey Open-file Report 00-403, 28 p., <http://geopubs.wr.usgs.gov/open-file/of00-403>.
- Langenheim, V.E., Glen, J.M., Jachens, R.C., Dixon, G.L., Katzer, T.C., and Morin, R.L., 2000, Geophysical constraints on the Virgin River Depression, Nevada, Utah, and Arizona: U.S. Geological Survey Open-file Report 00-407, 26 p., <http://geopubs.wr.usgs.gov/open-file/of00-407>.

- Langenheim, V.E., Griscom, A., Jachens, R.C., and Hildenbrand, T., 2000, Preliminary potential-field constraints on the geometry of the San Fernando Basin, southern California: U.S. Geological Survey Open-file Report 00-219, 36 p., <http://geopubs.wr.usgs.gov/open-file/of00-219>.
- Langenheim, V.E., and Jachens, R.C., 2000, A link between the Landers and Hector Mine earthquakes, southern California, inferred from gravity and magnetic data [abs.]: *Eos, Transactions, American Geophysical Union*, v. 81, no. 48, supplement, p. F858.
- Lucchitta, I., Curtis, G.H., Davis, M.E., Davis, S.W., and Turrin, B., 2000, Cyclic aggradation and down-cutting, fluvial response to volcanic activity, and calibration of soil-carbonate stages in the western Grand Canyon, Arizona: *Quaternary Research*, v. 53, no. 1, p. 23-33.
- Magoon, L.B., 2000, Are we running out of oil?: U.S. Geological Survey Open-file Report 00-320, 1 plate, <http://geopubs.wr.usgs.gov/open-file/of00-320>.
- Magoon, L.B., and Dow, W.G., 2000, Mapping the petroleum system—an investigative technique to explore the hydrocarbon fluid system, *in* Mello, M.R., and Katz, B.J., eds., *Petroleum systems of South Atlantic margins: American Association of Petroleum Geologists Memoir 73*, p. 53-68.
- Magoon, L.B., and Hodgson, S.F., 2000, The role oil and gas seeps played in petroleum exploration in California [abs.]: *American Association of Petroleum Geologists Bulletin*, v. 84, no. 6., p. 882.
- Magoon, L.B., and Schmoker, J.W., 2000, The total petroleum system—the natural fluid network that constrains the assessment unit, *in* USGS World Energy Assessment Team, ed., *U.S. Geological Survey world petroleum assessment 2000—description and results: U.S. Geological Survey Digital Data Series 60*, chap. PS, p. PS-1-20, <http://greenwood.cr.usgs.gov/energy/WorldEnergy/DDS-60>.
- McCulloh, T.H., Beyer, L.A., and Enrico, R.J., 2000, Paleogene strata of the eastern Los Angeles Basin, California: Paleogeography and constraints on Neogene structural evolution: *Geological Society of America Bulletin*, v. 112, no. 8, p. 1155-1178.
- McLaughlin, R.J., Ellen, S.D., Blake, M.C., Jr., Jayko, A.S., Irwin, W.P., Aalto, K.R., Carver, G.A., and Clarke, S.H., Jr., 2000, Geology of the Cape Mendocino, Eureka, Garberville, and southwestern part of the Hayfork 30 x 60 minute quadrangles and adjacent offshore area, northern California: U.S.

Geological Survey Miscellaneous Field Studies MF-2336, 27 p., scale 1:100,000, <http://geopubs.wr.usgs.gov/map-mf/mf2336>.

- McLaughlin, R.J., Langenheim, V.E., Schmidt, K.M., Jachens, R.C., Stanley, R.G., Jayko, A.S., McDougall, K.A., Tinsley, J.C., and Valin, Z.C., 2000, Neogene contraction between the San Andreas Fault and the Santa Clara Valley, San Francisco Bay region, California, *in* Ernst, W.G., and Coleman, R.G., eds., *Tectonic studies of Asia and the Pacific Rim: Geological Society of America International Book Series*, v. 3, p. 265-294.
- McLaughlin, R.J., Sarna-Wojcicki, A.M., Fleck, R.J., Jachens, R.C., Nilsen, T.H., Graymer, R.W., Walker, J.P., and Valin, Z.C., 2000, Evolution of the San Francisco Bay structural block and northeastward migration of the San Andreas fault system [abs.], *in* Bokelmann, G., and Kovach, R.L., eds., *Proceedings of the 3rd Conference on Tectonic problems of the San Andreas fault system: Stanford, Calif., Stanford University Publications, Geological Sciences*, v. 21, p. 370, <http://pangea.stanford.edu/GP/sanandreas2000/index.html>.
- Merewether, E.A., and Gautier, D.L., 2000, Composition and depositional environment of concretionary strata of early Cenomanian (early Late Cretaceous) age, Johnson County, Wyoming: U.S. Geological Survey Bulletin 1917-U, 28 p., <http://greenwood.cr.usgs.gov/pub/bulletins/b1917-u>.
- Miller, D.M., and Bedford, D.R., 2000, Geologic map database of the El Mirage Lake area, San Bernardino and Los Angeles counties, California: U.S. Geological Survey Open-file Report 00-222, 27 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of00-222>.
- Miller, F.K., 2000, Geologic map of the Chewelah 30' by 60' quadrangle, Washington-Idaho: U.S. Geological Survey Miscellaneous Field Studies MF-2354, 36 p., scale 1:100,000, <http://geopubs.wr.usgs.gov/map-mf/mf2354>.
- Miller, M.S., Anderson, M.L., Jachens, R.C., and Wentworth, C.M., 2000, 3-D geophysical model of the upper crust at the proposed San Andreas fault observatory at depth (SAFDO) site near Parkfield, California [abs.]: *Eos, Transactions, American Geophysical Union*, v. 81, no. 48, supplement, p. F1217.
- Miller, F.K., Matti, J.C., and Brown, H.J., 2000, Digital geologic map of the Butler Peak 7.5' quadrangle, San Bernardino County, California: U.S. Geological Survey Open-file Report 00-145, 14 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of00-145>.

- Morin, R.L., 2000, Basement structure beneath Langford Well Lake Basin, Fort Irwin, California, based on inversion of gravity data: U.S. Geological Survey Open-file Report 00-518, 13 p., <http://geopubs.wr.usgs.gov/open-file/of00-518>.
- Morton, D.M., Premo, W.R., Kistler, R.W., Snee, L.W., and Hammarstrom, J.M., 2000, Structural and mineralogical changes across a Buchan metamorphic gradient, northern Peninsula Ranges batholith, southern California: setting and structure [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-168.
- Phelps, G.A., Jewel, E.B., Langenheim, V.E., and Jachens, R.C., 2000, Principal facts for gravity stations in the vicinity of Coyote Springs Valley, Nevada, with initial gravity modeling results: U.S. Geological Survey Open-file Report 00-420, 22 p., <http://geopubs.wr.usgs.gov/open-file/of00-420>.
- Phelps, G.A., McKee, E.H., Sweetkind, D., and Langenheim, V.E., 2000, Preliminary model of the pre-Tertiary basement rocks beneath Yucca Flat, Nevada Test Site, Nevada, based on analysis of gravity and magnetic data: U. S. Geological Survey Open-file Report 00-134, 11 p., <http://geopubs.wr.usgs.gov/open-file/of00-134>.
- Pike, R.J., 2000, Digital terrain modeling and industrial surface metrology—converging crafts [abs.]: Metrology and Properties of Engineering Surfaces, 8th University of Huddersfield, UK, April 26-28, Proceedings, p. 38.
- Pike, R.J., 2000, Geomorphometry—diversity in quantitative surface analysis: Progress in Physical Geography, v. 24, no. 1, p. 1-20.
- Pike, R.J., 2000, Nano-metrology and terrain modelling—convergent practice in surface characterisation: Tribology International, v. 33, no. 9, p. 593-600.
- Pike, R.J., Kalman, N.B., Graymer, R.W., and Roberts, S., 2000, Tests of a revised model for mapping landslide susceptibility in the San Francisco Bay region [abs.]: Eos, Transactions, American Geophysical Union, v. 81, no. 48, supplement, p. F540.
- Plescia, J.B., Langenheim, V.E., and Hendricks, J.D., 2000, Gravity and crustal structure of the Colorado Plateau transition zone [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-104.
- Plouff, D., 2000, Field estimates of gravity terrain corrections and Y2K-compatible method to convert from gravity readings with multiple base stations to

- tide- and long-term drift-corrected observations: U.S. Geological Survey Open-file Report 00-140, 35 p., <http://geopubs.wr.usgs.gov/open-file/of00-140>.
- Ponce, D.A., and Glen, J.M., 2000, Geophysical expression of the northern Nevada rift [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-462-463.
- Ponce, D.A., and Morin, R.L., 2000, Isostatic gravity map of the Battle Mountain 30 x 60 minute quadrangle, north-central Nevada: U.S. Geological Survey Geologic Investigations Series I-2687, scale 1:100,000, <http://geopubs.wr.usgs.gov/i-map/i2687>.
- Powell, C.L., II, 2000, Age and paleoenvironment suggested by mollusks from the Purisima Formation and related rocks (late Miocene – Pliocene), San Francisco Bay area, central California: Western Society of Malacologists, Annual Report, v. 32, p. 20-22.
- Powell, C.L., II, Lajoie, K., and Ponti, D., 2000, A preliminary chronostratigraphy based on molluscan biogeography for the late Quaternary of southern California: Western Society of Malacologists, Annual Report, v. 32, p. 23-36.
- Powell, C.L., II, and Stevens, D., 2000, Significance of macrofossils from the "San Pedro" Formation, Coyote Hills, Orange County, southern California: Western Society of Malacologists, Annual Report, v. 32, p. 36-41.
- Powell, C.L., II, and Stevens, D., 2000, Age and paleoenvironmental significance of mega-invertebrates from the "San Pedro" Formation in the Coyote Hills, Fullerton and Buena Park, Orange County, southern California: U.S. Geological Survey Open-file Report 00-319, 83 p., <http://geopubs.wr.usgs.gov/open-file/of00-319>.
- Powell, R.E., and Matti, J.C., 2000, Geologic map and digital database of the Cougar Buttes 7.5' quadrangle, San Bernardino County, California: U.S. Geological Survey Open-file Report 00-175, 19 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of00-175>.
- Prose, D.V., and Wilshire, H.G., 2000, The lasting effects of tank maneuvers on desert soils and intershrub flora : U.S. Geological Survey Open-file Report 00-512, 22 p., <http://geopubs.wr.usgs.gov/open-file/of00-512>.
- Sarna-Wojcicki, A.M., 2000, Comments on: Revised age of the Rockland tephra, northern California: Implications for climate and stratigraphic

- reconstructions in the western United States, by M.A. Lanphere et al.: *Geology*, v. 28, no. 3, p. 286.
- Sarna-Wojcicki, A.M., Pringle, M.S., and Wijbrans, J., 2000, New 40-Ar/39-Ar age of the Bishop Tuff from multiple sites and sediment rate calibration for the Matuyama-Brunhes boundary: *Journal of Geophysical Research*, v. 105, no. B9, p. 21,431-21,443.
- Schmidt, K.M., 2000, Does forest stand age portray root strength and landslide susceptibility? [abs.]: *Geological Society of America Abstracts with Programs*, v. 32, no. 6, p. A67.
- Schmidt, K.M., 2000, Geomorphic indices of tectonic activity near Pahrump, Nevada and California [abs.]: *Eos, Transactions, American Geophysical Union*, v. 81, no. 48, supplement, p. F1165.
- Stanley, R.G. and Lillis, P.G., 2000, Oil-bearing rocks of Davenport and Point Reyes, California, and offset along the San Gorgonio and San Andreas faults, *in* Bokelmann, G., and Kovach, R.L., eds., *Proceedings of the 3rd Conference on Tectonic problems of the San Andreas fault system: Stanford, Calif., Stanford University Publications, Geological Sciences*, v. 21, p. 371-384,
<http://pangea.stanford.edu/GP/sanandreas2000/index.html>.
- Stanley, R.G., and Vedder, J.G., 2000, New digital geologic map of the San Rafael Mtn. 7.5-minute quadrangle (Santa Barbara County, California) and a new interpretation of the Camuesa Fault [abs.]: *American Association of Petroleum Geologists Bulletin*, v. 84, no. 12, p. 1960.
- Stanley, R.G., Wilson, D.S., and McCrory, P.A., 2000, Locations and ages of middle Tertiary volcanic centers in coastal California: U. S. Geological Survey Open-file Report 00-154, 27 p., <http://geopubs.wr.usgs.gov/open-file/of00-154>.
- Steiger, J.W., and Webb, R.H., 2000, Recovery of perennial vegetation in military target sites in western Arizona: U.S. Geological Survey Open-file Report 00-355, 28 p., <http://geopubs.wr.usgs.gov/open-file/of00-355>.
- Stevens, C.H., and Stone, P., 2000, A new model for interpretation of the Last Chance thrust [abs.]: *Geological Society of America Abstracts with Programs*, v. 32, no. 6, p. A-69.
- Stewart, J.H., Sarna-Wojcicki, A., Perkins, M.E., and Dumitru, T.A., 2000, Age of Basin and Range faulting based on coarse clastics in Miocene

- sedimentary rocks, west-central Nevada [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-44.
- Stone, P., and Cossette, P.M., 2000, Geologic map and digital database of the Apache Canyon 7.5' quadrangle, Ventura and Kern Counties, California: U.S. Geological Survey Open-file Report 00-359, 22 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of00-359>.
- Stone, P., Dunne, G.C., Moore, J.G., and Smith, G.I., 2000, Geologic map of the Lone Pine 15' quadrangle, Inyo County, California: U.S. Geological Survey Geologic Investigations Series I-2617, scale 1:62,500, <http://geopubs.wr.usgs.gov/i-map/i2617>.
- Stone, P., and Powell, C.L., II, 2000, Publications of the Earth Surface Processes Team 1999: U.S. Geological Survey Open-file Report 00-215, 15 p., <http://geopubs.wr.usgs.gov/open-file/of00-215>.
- Stone, P., and Stevens, C.H., 2000, Pennsylvanian-Permian events in east-central California and their relation to the ancestral Rocky Mountains [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 7, p. A-467.
- Stone, P., Stevens, C.H., Spinoso, C., Furnish, W.M., Glenister, B.F., and Wardlaw, B.R., 2000, Stratigraphic relations and tectonic significance of rocks near the Permian-Triassic boundary, southern Inyo Mountains, California: Geological Society of America Map and Chart Series MCH086, 32 p., scale 1:12,000.
- Tabor, R.W., Frizzell, V.A., Booth, D.B., and Waitt, R.B., 2000, Geologic map of the Snoqualmie Pass 30 by 60 minute quadrangle, Washington: U.S. Geological Survey Geologic Investigations Series I-2538, scale 1:100,000, <http://geopubs.wr.usgs.gov/i-map/i2538>.
- Vigil, J.F., Pike, R.J., and Howell, D.G., 2000, A tapestry of time and terrain: U.S. Geological Survey Geologic Investigations Series I-2720, 24 p., scale 1:3,500,000, <http://geopubs.wr.usgs.gov/i-map/i2720>.
- Wahrhaftig, C., 2000, Geologic map of the Tower Peak quadrangle, central Sierra Nevada, California: U.S. Geological Survey Geologic Investigations Series I-2697, scale 1:62,500, <http://geopubs.wr.usgs.gov/i-map/i2697>.
- Wells, R.E., Blakely, R.J., Simpson, R.W., and Sugiyama, Y., 2000, Tectonics of the Cascadia subduction zone, northwest U.S. and adjacent Canada [abs.], *in* Clague, J.J., Atwater, B.F., Wang, K., Wang, Y., and Wong, I., compilers,

Penrose Conference 2000, Great Cascadia earthquake tricentennial—program summary and abstracts: Oregon Department of Geology and Mineral Industries Special Paper 33, p. 135-136.

Wells, R.E., Blakely, R.J., and Sugiyama, Y., 2000, Forearc basins and co-seismic slip in great subduction zone earthquakes [abs.]: Eos, Transactions, American Geophysical Union, v. 81, no. 48, supplement, p. F907.

Wells, R.E., Jayko, A.S., Niem, A.R., Black, G., Wiley, T., Baldwin, E., Molenaar, K.M., Wheeler, K.L., DuRoss, C.B., and Givler, R.W., 2000, Geologic map and database of the Roseburg 30' x 60' quadrangle, Douglas and Coos Counties, Oregon: U.S. Geological Survey Open-file Report 00-376, 69 p., scale 1:100,000, <http://geopubs.wr.usgs.gov/open-file/of00-376>.

Wells, R.E., and Johnson, S.Y., 2000, Neotectonics of western Washington and the Puget lowland resulting from northward migration of the Cascadia forearc [abs.]: Geological Society of America Abstracts with Programs, v. 32, no. 6, p. A-75.

Wells, R.E., and Simpson, R.W., 2000, Neotectonic relationship between Cascadia forearc migration and subduction, northwest U.S. [abs.]: Eos, Transactions, American Geophysical Union, v. 81, no. 22, supplement, p. WP180.