

CENTRO DE GEOCIENCIAS
 UNAM, CAMPUS JURIQUILLA
 Relación de Artículos publicados por el Centro de Geociencias

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Connectivity and hydrological efficiency dynamics at active volcanoes, Mexico

Destruction of a lava dome observed with photogrammetry, acoustic and seismic sensors at Volcán de Colima, Mexico

Drip water $\delta^{18}O$ variability in the northeastern Yucatán Peninsula, Mexico: Implications for tropical cyclone detection and rainfall reconstruction from speleothems

Estimating the depth and evolution of intrusions at resurgent calderas: Los Humeros (Mexico)

Fine air pollution particles trapped by street tree barks: In situ magnetic biomonitoring

Geochemical constraints on the genesis of the 'Montaña de Manganeso' vein-type Mn deposit, Mexican Plateau

Geology of the southern Mesa Central of Mexico: recording the beginning of a polymodal fault system

Iron oxide mineralogy in Mollisols, Aridisols and Entisols from southwestern Pampean region (Argentina) by environmental magnetism approach

Land subsidence and associated ground fracturing: study cases in central Mexico with ALOS-2 PALSAR-2 ScanSAR Interferometry

Late Pleistocene to Holocene activity of Alchichica maar volcano, eastern Trans-Mexican Volcanic Belt

Magnetic parameters as proxies for anthropogenic pollution in water reservoir sediments from Mexico: An interdisciplinary approach

Quantifying active deformation on a dry maar's bottom through a light unmanned aerial vehicle and Structure-from-Motion

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Facies variations and permeability of ignimbrites in active geothermal systems; case study of the Xáltipan ignimbrite at Los Humeros Volcanic Complex

Geochemical characterization of alchichica maar volcano, Serdán-oriental Basin, eastern Trans-Mexican Volcanic Belt: Insights on polymagmatic evolution at monogenetic volcanic clusters

The magnitude and impact of the 431 CE Tierra Blanca Joven eruption of Ilopango, El Salvador

Elutriation pipes in ignimbrites: An analysis of concepts based on the Huichapan Ignimbrite, Mexico

An Ultrametric Random Walk Model for Disease Spread Taking into Account Social Clustering of the Population

Mineralogical and geochemical changes due to hydrothermal alteration of the volcanic rocks at Acozulco geothermal system, Mexico

Catalog of preinstrumental earthquakes in central Mexico: Epicentral and magnitude estimations based on macroseismic

Fabrication and characterization of highly porous Ti6Al4V/xTa composites for orthopedic applications

Inter-hemispheric synchronicity of Holocene precipitation anomalies controlled by Earth's latitudinal insolation gradients

Bandgap modification of titanium dioxide doped with rare earth ions for luminescent processes

Development of a Brittle Triaxial Deformation Zone in the Upper Crust: The Case of the Southern Mesa Central of Mexico

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The Ilopango caldera complex, El Salvador: Origin and early ignimbrite-forming eruptions of a graben/pull-apart caldera structure

Paleogene Magmatism of the Maracaibo Block and Its Tectonic Significance

New insights into the geology and tectonics of the San Dimas mining district, Sierra Madre Occidental, Mexico

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Ceboruco hazard map part II modeling volcanic phenomena and construction of the general hazard map

Determination of the temperature of precipitation of aragonite in shells of *Anadara brasiliana* (Lamarck, 1819) from Playa Norte, Cazonos de Herrera (Holocene, Veracruz, Mexico) by means of trace element analysis

Sediment provenance, sediment-dispersal systems, and major arc-magmatic events recorded in the Mexican foreland basin, North-Central and Northeastern Mexico

Giant fluorite mineralization in central Mexico by means of exceptionally low salinity fluids: An unusual style among MVT deposits

MVT-like fluorite deposits and oligocene magmatic-hydrothermal fluorite-Be-U-Mo-P-V overprints in northern Coahuila, Mexico

Geochronology of Mexican mineral deposits. III: The Taxco epithermal deposits, Guerrero

A rock magnetic fingerprint of hydrothermal alteration in volcanic rocks – An example from the Los Azufres Geothermal Field, Mexico

New late Middle to early Late Ordovician U-Pb zircon ages of extension-related felsic volcanic rocks in the Eastern Pyrenees (NE Iberia): tectonic implications

Ash clouds temperature estimation. Implication on dilute and concentrated PDCs coupling and topography confinement

The role of subducted sediments in the formation of intermediate mantle-derived magmas from the Northern Colombian Andes

Analysis of the biological recovery of soils contaminated with hydrocarbons using an electrokinetic treatment

Contributions of morphospace and multivariate analyses to interpretations of phenotype patterns and trends in mexican Idoceras

	<p><u>Provenance analysis of Oligocene sandstone from the Cerro Pelón area, southern Gulf of Mexico</u></p> <p><u>The effect of pore structure complexity and saturation history on the variations of acoustic velocity as function of brine and oil saturation in carbonates</u></p> <p><u>EPCI: A new tool for predicting absolute permeability from computed tomography images</u></p> <p><u>A stochastic rupture earthquake code based on the fiber bundle model (TREMOL v0.1): application to Mexican subduction earthquakes</u></p> <p><u>Uplift and syn-orogenic magmatism in the Concepción del Oro Block: A thick-skinned (Laramide style?) contractional structure in the Mexican Fold-Thrust Belt</u></p> <p><u>Late-Quaternary secular variation data from Mexican volcanoes</u></p> <p><u>Exploiting individual UePb zircon ages andTi-in-zircon crystallization temperature data to identify high zircon-production events in theXolapa terrane</u></p> <p><u>Elementos de tierras raras disueltos en agua subterránea y su relación con los sistemas de flujo en rocas marinas y volcánicas en el Bajío de Guanajuato, Centro de México</u></p> <p><u>Thermochronology and exhumation rates of granitic intrusions at Mesa Central, Mexico</u></p> <p><u>Análisis de fracturas geológicas en el pozo Agrícola Oriental 2C, Ciudad de México y su relación con fallas mayores</u></p> <p><u>Reply to the comment on: "Geochronology and geothermometry of the Laramide metamorphism in the Cambrian metabasalts from the Cerro Rajón Formation, Caborca region, northwest Mexico"</u></p> <p><u>Discussion of: Ortega-Flores et al. (2018) Provenance analysis of Oligocene sandstone from the Cerro Pelón area, southern Gulf of Mexico</u></p> <p><u>Evidence for an Ordovician continental arc in the pre-Mesozoic basement of the Huizachal–Peregrina Anticlinorium, Sierra Madre Oriental, Mexico: Peregrina Tonalite</u></p> <p><u>Apatite U-Pb dating at UNAM laboratories: Analytical protocols and examples of its application</u></p> <p><u>Dinohippus mexicanus (tardío-tardío, tardío y último hemphilliano) y la transición al género Equus, en las faunas del centro de México</u></p> <p><u>Chronology of the 2014–2016 Eruptive Phase of Volcán de Colima and Volume Estimation of Associated Lava Flows and Pyroclastic Flows Based on Optical Multi-Sensors</u></p> <p><u>Ordovician to Silurian igneous rocks in southern Mexico and Central America: geochronologic and isotopic constraints on paleogeographic models</u></p> <p><u>Granular beads in a vibrating, quasi two-dimensional cell: The true shape of the effective pair potential</u></p> <p><u>The structural architecture of the Los Humeros volcanic complex and geothermal field</u></p>
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	<p>a partir de información geofísica integrada Jorge Arzate, Pierre Lacan, Fernando Corbo-Camargo, Claudia Arango-Galván, Rafael Felix Maldonado, Jesús Pacheco, and Rodrigo León Loya Publicado el 31 de octubre de 2018</p>
NOVIEMBRE 2018	<p>Desarrollo computacional de ecuaciones cinéticas para la disolución/precipitación de minerales en fluidos acuosos. Raquel Josefina Gimón-Bastidas, Renee Jesús Pérez-Rodríguez, Eduardo González-Partida, 2018. Boletín de la Sociedad Geológica Mexicana, 70(3), 567-590</p> <p>Recent Mn-Ag deposits in coastal hydrothermal springs in the Baja California Peninsula, Mexico. Augusto Antonio Rodríguez-Díaz, Carles Canet, Ruth Esther Villanueva-Estrada, Elizabeth Chacón, Fernando Gervilla, Fernando Velasco-Tapia, Esther María Cruz-Gámez, Eduardo González-Partida, Raymundo Casas-García, Carlos Linares-López, Daniel Pérez-Zárate, 2018. Mineralium Deposita, 18 pp. https://doi.org/10.1007/s00126-018-0846-9</p> <p>The Mexican Earthquake Source Parameter Database: A New Resource for Earthquake Physics and Seismic Hazard Analyses in Mexico. Quetzalcoatl Rodríguez-Pérez, Víctor H. Márquez-Ramírez, F. Ramón Zúñiga, Raymundo Plata-Martínez, and Xyoli Pérez-Campos. 2018. Seismological Research Letters Volume 89, Number 5, doi: 10.1785/0220170250.</p> <p>Geochemistry of the Amazcala Caldera, Querétaro, México: An unusual peralkaline center in the central Mexican Volcanic Belt Gerardo de Jesús Aguirre-Díaz, Ofelia Morton-Bermea, 2018. p. 731 – 760 http://dx.doi.org/10.18268/BSGM2018v70n3a8</p> <p>Preliminary 3-D geological models of Los Humeros and Acoculco geothermal fields (Mexico). H2020 GEMex Project Philippe Calcagno, Gwladys Evanno, Eugenio Trumpy, Luis Carlos Gutiérrez-Negrín, José Luis Macías, Gerardo Carrasco-Núñez, and Domenico Liotta, 2018. Advances in Geosciences, 45, 321-333, 2018</p> <p>Paleomagnetism of Holocene lava flows from Los Humeros caldera, eastern Mexico: Discrimination of volcanic eruptions and their age dating Juarez-Arriaga, E., Bohnel, H., Carrasco-Nunez, G., Mahgoub, A.N., 2018. Journal of South American Earth Sciences 88, 736-748.</p>
OCTUBRE 2018	<p>Volcano stratigraphy and physical characterization of the San Mateo Pomez Unit, Cerritos Member: Temascalcingo Volcano, Central Mexico Dario Pedrazzi, Gerardo J. Aguirre-Díaz, Iván Sunyé-Puchol, Laura Becerril, Daniel P. Miggins, 2018. Journal of Volcanology and Geothermal Research, Volume 366, Pages 27-46, ISSN 0377-0273</p> <p>Deep embrittlement and complete rupture of the lithosphere during the M w 8.2 Tehuantepec earthquake Melgar, D., Ruiz-Angulo, A., Garcia, E.S., Manea, M., Manea, V.C., Xu, X., Ramirez-Herrera, M.T., Zavala-Hidalgo, J., Geng, J., Corona, N., Pérez-Campos, X., Cabral-Cano, E., Ramirez-Guzmán, L., Nature Geoscience. 2018., DOI: 10.1038/s41561-018-0229-y</p> <p>Evidence of a shallow magma reservoir below Los Humeros volcanic complex: Insights from the geochemistry of silicate melt inclusions Laura Créon, Gilles Levresse, Gerardo Carrasco-Nuñez, Laurent Remusat Journal of South American Earth Sciences, Volume 88, December 2018, Pages 446-458</p> <p>Subduction thermal structure, metamorphism and seismicity beneath north-central Chile Yingfeng Ji, Shoichi Yoshioka, Vlad Constantin Manea, Marina Manea, Nobuaki Suenaga</p>

	<p>Journal of Geodynamics, September 2018</p> <p>Delamination of sub-crustal lithosphere beneath the Isthmus of Tehuantepec, Mexico: insights from numeric modelling M.Manea, Vlad C.Manea, L.Ferrari, T.Orozco-Esquivel Journal of Geodynamics, September 2018</p>
SEPTIEMBRE 2018	<p>Overexploitation of groundwater resources in the faulted basin of Querétaro, Mexico: A 3D deformation and stress analysis Engineering Geology, Volume 245, 1 November 2018, Pages 192-206 G. H. Ochoa-González, D. Carreón-Freyre, A. Franceschini, M. Cerca, P. Teatini</p> <p>Detrital and early chemical remanent magnetization in redbeds and their rock magnetic signature: Zicapa Formation, southern Mexico Maria Isabel Sierra-Rojas Roberto Stanley Molina-Garza Geophysical Journal International, Volume 213, Issue 3, 1 June 2018, Pages 1701-1719</p>
AGOSTO 2018	<p>Atmospheric pollution assessed by in situ measurement of magnetic susceptibility on lichens Débora C. Marié, Marcos A. E. Chaparro, Juan M. Lavornia, Ana M. Sinito, ... Harald N. Böhnelt Ecological Indicators Volume 95, Part 1, December 2018, Pages 831-840</p> <p>A major provenance change in sandstones from the Tezoatlán basin, southern Mexico, controlled by Jurassic, sinistral normal motion along the Salado River fault: Implications for the reconstruction of Pangea Zepeda-Martínez, M., Martini, M., Solari, L. Journal of South American Earth Sciences, Volume 86, October 2018, Pages 447-460</p> <p>Digital Geologic Cartography and Geochronologic Database of the Trans-Mexican Volcanic Belt and Adjoining Area Ferrari L., Orozco-Esquivel T., Navarro M., López-Quiroz P., Luna L., 2018. Terra Digitalis, v. 2, no. 1</p> <p>Evidence of recent ruptures in the central faults of the Acambay Graben (central Mexico) María Ortuño, Ona Corominas, Pilar Villamor, Ramon F. Zúñiga, Pierre Lacan, Gerardo Aguirre-Díaz, Hector Perea, Petra Štepančíková, María Teresa Ramírez-Herrera Geomorphology, Available online 17 July 2018</p>
JULIO 2018	<p>Sedimentary evidence of historical and prehistorical earthquakes along the Venta de Bravo Fault System, Acambay Graben (Central Mexico) Sedimentary Geology, Volume 365, March 2018, Pages 62-77 Pierre Lacan, María Ortuño, Laurence Audin, ... F. Ramón Zúñiga</p>
JUNIO 2018	<p>Biohermal thrombolites of the crater lake Rincón de Parangeo in Central México Elizabeth Chacón B., José Jorge Aranda-Gómez, Marcela Charles-Polo, Marco A. Sánchez-Ramos, Eric M.Rivera-Muñoz, Gilles Levresse, Beatriz Millán-Malo Journal of South American Earth Sciences, Volume 85, August 2018, Pages 236-249</p> <p>Soil degassing at the Los Humeros geothermal field (Mexico) Loïc Peiffer, Gerardo Carrasco-Núñez, Agnès Mazot, Ruth Esther Villanueva-Estrada, Javier Hernández Rojas Journal of Volcanology and Geothermal Research, Volume 356, 1 May 2018, Pages 163-174</p> <p>A stochastic p-adic model of the capillary flow in porous random medium Alexandra V. Antoniouk, Klaudia Oleschko, Anatoly N. Kochubei, Andrei Yu. Khrennikov Physica A: Statistical Mechanics and its Applications, Volume 505, 1 September 2018, Pages 763-777</p>

	<p>Imaging b-value depth variations within the Cocos and Rivera plates at the Mexican subduction zone Quetzalcoatl Rodríguez-Pérez, F. Ramón Zuñiga Tectonophysics Volumes 734–735, 5 June 2018, Pages 33-43</p>
MAYO 2018	<p>Båth's law and its relation to the tectonic environment: A case study for earthquakes in Mexico Tectonophysics, Volume 687, 26 September 2016, Pages 66-77 Q. Rodríguez-Pérez, F.R. Zúñiga</p> <p>Understanding landscape dynamics of the Sierra de Juarez, southern Mexico: An exploratory approach using inherited luminescence signals Journal of South American Earth Sciences, Volume 76, July 2017, Pages 208-217 Esperanza Muñoz-Salinas, Miguel Castillo, Lizeth Caballero, Pierre Lacan</p> <p>Emplacement temperature estimation of the 2015 dome collapse of Volcán de Colima as key proxy for flow dynamics of confined and unconfined pyroclastic density currents A. Pensa, L. Capra, G. Giordano, S. Corrado Journal of Volcanology and Geothermal Research, May 2018</p> <p>Large-scale rotations of the Chortis Block (Honduras) at the southern termination of the Laramide flat slab Tectonophysics, Available online 24 December 2017, Roberto S. Molina Garza, Douwe J.J. van Hinsbergen, Lydian M. Boschman, ... Morgan Ganerød</p> <p>Seismicity characterization of the Maravatío-Acambay and Actopan regions, central Mexico Journal of South American Earth Sciences, Volume 76, July 2017, Pages 264-275 Quetzalcoatl Rodríguez-Pérez, F. Ramón Zúñiga</p>
ABRIL 2018	<p>Evolución de la distribución de las reservas de hidrocarburos de las Provincias Petroleras Mexicanas. Hernandez Martínez D., Ferrari L., 2017. Terra Digitalis, v. 1, no. 2, 1-23. DOI: 10.22201/igg.terradigitalis.2017.2.25.80</p> <p>New fission-track results from the northern Chiapas Massif area, SE Mexico: trying to reconstruct its complex thermo-tectonic history Fanis Abdullin, Luigi Solari, Carlos Ortega-Obregón and Jesús Solé REVISTA MEXICANA DE CIENCIAS GEOLÓGICAS, V. 35, núm. 1, 2018, p. 79-92</p>
MARZO 2018	<p>Boiling-over dense pyroclastic density currents during the formation of the ~ 100 km³ Huichapan ignimbrite in Central Mexico: Stratigraphic and lithofacies analysis Jaime G. Pacheco-Hoyos, Gerardo J. Aguirre-Díaz, Pablo Dávila-Harris Journal of Volcanology and Geothermal Research, Volume 349, 1 January 2018, Pages 268-282</p> <p>New method for initial composition determination of crystallized silicate melt inclusions Laura Créon, Gilles Levrèsse, Laurent Remusat, Hélène Bureau, Gerardo Carrasco-Núñez Chemical Geology, March 2018</p>
FEBRERO 2018	<p>Late Mesoproterozoic to Early Paleozoic history of metamorphic basement from the southeastern Chiapas Massif Complex, Mexico, and implications for the evolution of NW Gondwana Weber, B., González-Guzmán, R., Manjarrez-Juárez, R., Cisneros de León, A., Martens, U., Solari, L., Hecht, L., Valencia, V. Lithos Volume 300-301, February 2018, Pages 177-199</p> <p>The Los Humeros (Mexico) geothermal field model deduced from new geophysical and geological data</p>

	<p>Jorge Arzate, Fernando Corbo-Camargo, Gerardo Carrasco-Núñez, Javier Hernández, Vsevolod Yutsis Geothermics, Volume 71, January 2018, Pages 200-211</p>
ENERO 2018	<p>Stratigraphy, geochronology and regional tectonic setting of the Late Cretaceous (ca. 82-70 Ma) Cabullona basin, Sonora, Mexico Carlos M.González-León, Luigi A.Solari, Jayagopal Madhavarajua Journal of South American Earth Sciences., Volume 80, December 2017, Pages 494-511</p> <p>New metallogenic model of telescoped Eocene-Miocene Au-U epithermal mineral deposit in the Placer de Guadalupe district, Chihuahua, Mexico Ore Geology Reviews, Volume 91, December 2017, Pages 133-152 Gilles Levrèsse, Janet Villarreal-Fuentes, Angel F. Nieto-Samaniego, Paul Alexandre, Jesus Solé Viñas</p> <p>Large-scale rotations of the Chortis Block (Honduras) at the southern termination of the Laramide flat slab Tectonophysics, December 2017 Roberto S. Molina Garza, Douwe J.J. van Hinsbergen, Lydian M. Boschman, Robert D. Rogers, Morgan Ganerød</p>
DICIEMBRE 2017	<p>Seismogenesis of dual subduction beneath Kanto, central Japan controlled by fluid release Yingfeng Ji, Shoichi Yoshioka, Vlad C. Manea & Marina Manea www.nature.com/scientificreports, Published on line: 4 December 2017</p>
NOVIEMBRE 2017	<p>The transition between shortening and extensional regimes in central Mexico recorded in the tourmaline veins of the Comanja Granite Edgar Angeles-Moreno, Angel Francisco Nieto-Samaniego, Francisco Jesús Ruiz-González, Gilles Levrèssea, Susana Alicia Alaniz-Alvarez, María de Jesús Paulina Olmos Moya, Shunshan Xu, Raúl Miranda-Avilés Journal of South American Earth Sciences, Volume 73, Pages 65–77</p> <p>Stratigraphy, geochronology and regional tectonic setting of the Late Cretaceous (ca. 82-70 Ma) Cabullona basin, Sonora, Mexico Carlos M. González-León, Luigi A. Solari, Jayagopal Madhavaraju., Journal of South American Earth Sciences, Volume 80, December 2017, Pages 494-511</p>
OCTUBRE 2017	<p>New metallogenic model of telescoped Eocene-Miocene Au-U epithermal mineral deposit in the Placer de Guadalupe district, Chihuahua, Mexico Ore Geology Reviews, In press, accepted manuscript, Available online 21 October 2017 Gilles Levrèsse, Janet Villarreal-Fuentes, Angel F. Nieto-Samaniego, Paul Alexandre, Jesus Sole</p> <p>Paleoseismological uncertainty estimation in the Acambay region, Central Mexico Quetzalcoatl Rodríguez-Pérez, , F. Ramón Zúñiga and Pierre Lacan., Geofísica internacional (2017) 56-3: 255-268</p> <p>A tale of Mexico's most exploited—and connected—watersheds: the Basin of Mexico and the Lerma-Chapala Basin Jaime J. Carrera-Hernandez Published Online: Sep 28 2017, Wiley Interdisciplinary Reviews: Water</p> <p>Seismicity characterization of the Maravatío-Acambay and Actopan regions, Central Mexico Rodríguez-Pérez, Q y Zúñiga F.R. Journal of South American Earth Sciences, 76, 264–275, 2017., DOI 10.1016/j.jsames.2017.03.013</p>
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	<p>Cenozoic magmatism and extension in western Mexico: Linking the Sierra Madre Occidental silicic large igneous province and the Comondú Group with the Gulf of California rift Ferrari L., Orozco-Esquivel T., Bryan S.E., López-Martínez M., Silva Frago A., 2017 Earth Science Reviews, DOI: 10.1016/j.earscirev.2017.04.006</p> <p>Spatio-temporal land-use changes in the Colima-Villa de Álvarez metropolitan area, and their relationship to floodings Myrna Lorena Pérez-González, Lucia Capra Pedol, Norma Dávila-Hernández; Lorenzo Borselli, Sara Solís-Valdez, and Azalea Judith Ortiz-Rodríguez REVISTA MEXICANA DE CIENCIAS GEOLÓGICAS, v. 34, núm. 2, 2017, p. 78-90</p> <p>Paleomagnetism and magnetic fabrics of Mio-Pliocene hypabyssal rocks of the Combia event, Colombia: tectonic implications Piedrahita, Víctor Andrés & Molina Garza, Roberto & María Sierra, Gloria & Trujillo, José. <i>Studia Geophysica et Geodaetica</i>. Jul 2017</p>
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	<p>HAZARDS FROM VOLCANIC AVALANCHES Horizons in Earth Science Research Chapter 10, Volume 3 Gerardo Carrasco-Núñez*1, Lee Siebert2 and Lucia Capra1 1 Centro de Geociencias, Universidad Nacional Autónoma de México Campus UNAM, Juriquilla, Querétaro, Qro., Mexico 2 Smithsonian Institution, Global Volcanism Program, Washington, DC, USA</p> <p>ABSTRACT Although relatively infrequent in comparison with other volcanic phenomena, volcanic avalanches are regarded as one of the most dangerous and catastrophic events affecting a volcano. Most commonly they are associated with eruptive activity that can be expressed as direct magmatic eruptions through dike or cryptodome intrusions, or as phreatic explosions; however, they can also occur in the absence of any contemporaneous magmatic or other eruptive component. Seismicity, or in smaller scale cases extreme precipitation, can trigger collapse of areas of a volcano that are already unstable. Therefore, an assessment of the unstable conditions affecting a volcano, together with a comprehensive study of its geological evolution, including the recognition of the magnitude and frequency of previous collapse events, as well as modeling of possible collapse scenarios is essential for hazard assessments.</p> <p>STRUCTURAL ANALYSIS OF A RELAY RAMP IN THE QUERÉTARO GRABEN, CENTRAL MEXICO: IMPLICATIONS FOR RELAY RAMP DEVELOPMENT Shunshan Xu, Ángel Francisco Nieto-Samaniego, Susana Alicia Alaniz-Álvarez, and Luis Mariano Cerca-Martínez, Universidad Nacional Autónoma de México, Centro de Geociencias, Querétaro, México. Revista Mexicana de Ciencias Geológicas, v. 28, núm. 2, 2011, p. 275-289</p> <p>INVERSION TECTONICS OF THE HETEROGENEOUS LITHOSPHERE OF SOUTHWESTERN MEXICO DURING LARAMIDE SHORTENING Cerca M., Ferrari L., Corti G., Bonini M., Manetti P., 2010, Lithosphere, 2, 3, 172-187.</p>
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