

Eastoe, C.J. and Towne, D., 2018, Regional zonation of groundwater recharge mechanisms in alluvial basins of Arizona: Interpretation of isotope mapping. *Journal of Geochemical Exploration*, in press.

Zhao, L.J., Eastoe, C.J., Liu, X.H., Wang, L.X., Wang, N.L., Xie, C. and Song, Y.X. 2018, Origin and residence time of groundwater based on stable and radioactive isotopes in the Heihe River Basin, northwestern China. *Journal of Hydrology: Regional Studies* 18:31-49.

Eastoe, C.J. and Clark, B., 2018, Understanding the water resources of a small rural community: citizen science in Cascabel, Arizona. *Journal of Contemporary Water Research and Education*, 161 in press, August 2018

Eastoe, C. and Toolin, L., 2018, A multi-century  $\delta^{13}\text{C}$  record of the C4 grass *Setaria macrostachya* in the US Southwest: Identifying environmental causes of variability. *Palaeogeography, Palaeoclimatology, Palaeoecology* 489: 129-136.

Mahlknecht, J., Hernández-Antonio, A., Eastoe, C., Tómez-Meléndez, C., Ledesma-Ruiz, R., Ramos-Leal, J.A. and Ornelas-Soto, N., Understanding the dynamics and contamination of an urban aquifer system using groundwater age ( $^{14}\text{C}$ ,  $^3\text{H}$ , CFCs) and chemistry. In press, *Hydrological Processes*

Eastoe, C.J. and Osborn, S.G, 2017, Comment on Harms, P.A., Visser, A., Moran, J.E. and Esser, B.K., 2016, Distribution of tritium in precipitation and surface water in California. *Journal of Hydrology*, 545, 381-382.

Granados-Olivas, A., Alatorre-Cejudo, L.C., Adams, D., Serra, Y.L., Esquivel-Ceballos, V.H., Vázquez-Gálvez, F.A., Giner, M.A. and Eastoe, C., 2016, Runoff modeling to inform policy regarding development of green infrastructure for flood risk management and groundwater recharge augmentation along an urban subcatchment, Ciudad Juarez, Mexico. *Journal of Contemporary Water Research and Education* 159, 50-61.

Eastoe, C. J and Gu, A., 2016, Groundwater depletion beneath Downtown Tucson, Arizona: a 240-year record. *Journal of Contemporary Water Research and Education*, 159, 62-77.

Eastoe, C.J., 2016, Stable chlorine isotopes in arid non-marine basins: instances and possible fractionation mechanisms. *Applied Geochemistry* 74:1-12.

**81**

Wang, Wei; Wei, Haizhen; Jiang, Shao-Yong; Eastoe, Christopher J.; Guo, Qi; Lin, Yibo, 2016, Adsorption behavior of metasilicate on N-methyl D-glucamine functional groups and associated silicon isotope fractionation. In press, *Langmuir*

Vijayaraj, R, Achyuthan, H., Eastoe, C. and Farooqui, A, 2016, Early Holocene to Present Paleoenvironmental Shifts and Short Climate Events Inferred from Tropical Wetland and Lake sediments, Kukkal Lake, Southern India: Geochemistry and Palynology, in press, Holocene

Eastoe, C.J. and Dettman, D.L., 2016, Isotope amount effects in hydrologic and climate reconstructions of monsoon climates: implications of some long-term data sets for precipitation. *Chemical Geology* 460, 76-89.

Eastoe, C.J., Granados Olivas, A., and Hibbs, B., 2016, Isotopes and anion chemistry as indicators of groundwater mixing in the Hueco Bolson aquifer, Ciudad Juárez, Chihuahua, Mexico, *Environmental and Engineering Geoscience*, 22:195-207.

Gungle, B.G., Callegary, J.B., Paretti, N.V., Kennedy, J.R., Eastoe, C.J., Turner, D.S., Dickinson, J.E., Levick, L.R., and Sugg, Z.P., 2016, Hydrological conditions and progress toward sustainable use of groundwater in the Sierra Vista Subwatershed, Upper San Pedro Basin, southeastern Arizona: U.S. Geological Survey Scientific Investigation Report 2016-5114., <http://dx.doi.org/10.3133/sir20165114>

Hernández-Antonio A, Mahlkecht J, Tamez-Meléndez C, Ramos-Leal J, Ramírez-Orozco A, Parra R, Ornelas-Soto N, Eastoe CJ. 2015. Groundwater flow processes and mixing in active volcanic systems: the case of Guadalajara (Mexico). *Hydrology and Earth System Sciences* **19**: 3937–3950. doi:10.5194/hess-19-3937-2015.

Veena, M.P., Achyuthan, H., Eastoe, C. and Farooqui, A., 2015, Human impact and and lowland Vellayani Lake, South India – record since 3000 y BP, *Anthropocene*, 8: 83-91.

Eastoe, C.J., Hess, G. and Mahieux, S., 2014, Identifying recharge from tropical cyclonic storms, Baja California Sur, Mexico, *Ground Water*, doi 10.1111/gwat.12183

Eastoe, C.J. and Rodney, R., 2014, Isotopes as tracers of water origin in and near a regional carbonate aquifer, the southern Sacramento Mountains, New Mexico. *Water*, 6, 301-323

Achyuthan H, Nagasundaram M, Gurlan AT, Eastoe C, Ahmad SM, and Veena MP (2014) Mid-Holocene Indian summer monsoon variability off the Andaman Islands, Bay of Bengal. *Quaternary International* 7: 41-53.

Veena, M.P., Achyuthan, H., Eastoe, C. and Farooqui, A., 2014, A multi-proxy reconstruction of monsoon variability in the late Holocene, South India, *Quaternary International* 325, 63-73.

Hopkins, Candice; McIntosh, Jennifer; Dickinson, Jesse; Eastoe, Chris; Meixner, Thomas, 2014 Evaluation of the importance of clay confining units on groundwater flow in alluvial basins using solute and isotope tracers. *Hydrogeology Journal*, 22: 829–849

Del Rio Salas, Rafael, Ochoa-Landín, Lucas; Ruiz, Joaquín; Eastoe, Christopher; Meza-Figueroa, Diana; Zuñiga-Hernández, Hugo; Mendivil-Quijada, Héctor; Quintanar-Ruiz, Francisco, 2013, Geology, stable isotope, and U-Pb geochronology of the Mariquita porphyry copper and Lucy Cu-Mo deposits, Cananea District, Mexico: A contribution to regional exploration. *Journal of Geochemical Exploration*, v 124, p 140-154

Del Rio-Salas, Rafael; Ochoa-Landín, Lucas; Eastoe, Christopher J.; Ruiz, Joaquín; Meza-Figueroa, Diana; Valencia-Moreno, Martín; Zúñiga-Hernández, Hugo; Zúñiga-Hernández, Luis; Moreno-Rodríguez, Verónica; Mendivil-Quijada, Héctor, 2013, Génesis de la mineralización de óxidos de manganeso en la región de Boleo y la Península de Concepción, Baja California Sur: restricciones a partir de isótopos de Pb-Sr y geoquímica de elementos de las tierras raras. *Revista mexicana de ciencias geológicas*, 30 (3), 482-499.

Achyuthan, H., Farooqui, A., Eastoe, C., Ramesh, R., Devi, M. and Ganesh, P.P., 2013, A five century long limnological and environmental record from northeastern India, in: Kotlia, B.S. (ed), *Holocene - perspectives, environmental dynamics and impact events*, Nova Science Publishers Inc., 129-143.

Eastoe, C.J., Watts, C.J., Ploughe, M. and Wright, W.E., 2011, Future use of tritium in mapping pre-bomb groundwater volumes. *Ground Water*, 50: 87-93.

Ajami, H., P. A. Troch, T. Maddock III, T. Meixner, and C. Eastoe , 2011. Quantifying mountain block recharge by means of catchment-scale storage-discharge relationships, *Water Resour. Res.*, 47, W04504, doi:10.1029/2010WR009598.

Aguirre M.L., Miquel, S.E., González, C.A., Kröhling, D., Zucol, A.F., Brea, M., Eastoe, C., 2011, Malacofauna continental holocena y paleoambientes en Villa Valle María (Diamante, Entre Ríos, Argentina). *Geobios*, 44, 1-17.

Eastoe, C.J., Hutchison, W.R., Hibbs, B.J., Hawley, J. and Hogan, J.F., 2010. Interaction of a river with an alluvial basin aquifer: Stable isotopes, salinity and water budgets. *Jour. Hydrol.* 395, 67-78.

Aguirre, M., Richiano, S., Álvarez, M.F., Eastoe, C. , 2009. Malacofauna Cuaternaria Del Litoral Norte De Santa Cruz (Patagonia, Argentina). **Geobios** v. 42, 411-434

Ongan, D., Algan, O., Kapan-Yesilyurt, S., Nazik, A., Ergin, M., and Eastoe, C., 2009, Benthic Faunal Assemblages of the Holocene Sediments from the Southwest Black Sea Shelf. *Turkish Journal of Earth Sciences*, 18, 239-297.

Wahi, A.K., Hogan, J.F., Ekwurzel, B., Baillie, M.N. and Eastoe, C.J., 2008, Geochemical quantification of semiarid mountain recharge, *Ground Water*, 46, 414-425.

Gu, A., Gray, F., Eastoe, C.J., Norman, L., Duarte, O. and Long, A., 2008, Tracing ground water input to base flow using sulfate (S, O) isotopes. *Ground Water*, 46, 502-509.

Druhan, J.L., Hogan, J.F., Eastoe, C.J., Hibbs, B. and Hutchison, W.R., 2008, Hydrogeologic Controls on Groundwater Recharge and Salinization: a Geochemical Analysis of the Northern Hueco Bolson Aquifer, El Paso, Texas. *Hydrogeology Journal*, 16 (2), 281-296

Eastoe, C.J., Hibbs, B.J., Granados Olivas, A., Hogan, J., Hawley, J. and Hutchison W.R., 2008, Isotopes in the Hueco Bolson Aquifer, Texas (USA) and Chihuahua (Mexico): local and general implications for recharge sources in alluvial basins. *Hydrogeology Journal*, 16, 737-747.

Valencia, V.A., Eastoe, C.J., Ruiz, J., Ochoa-Landin, L., Gehrels, G., Gonzalez-Leon, C., Barra, F., and Espinoza, E, 2008, Hydrothermal evolution of the porphyry copper deposit at La Caridad, Sonora, Mexico, and the relationship with a neighboring high-sulfidation epithermal deposit. *Economic Geology*, 103, 473-491.

Eastoe, C.J., Peryt, T.M., Petrychenko, O.Y and Geisler-Cussey, D., 2007, Stable Chlorine Isotopes in Phanerozoic Evaporites. *Applied Geochemistry*. 22, 575-588.

Baillie, M. N., J. F. Hogan, B. Ekwurzel, A K. Wahi, and C. J. Eastoe, 2007, Quantifying water sources to a semiarid riparian ecosystem, San Pedro River, Arizona, *J. Geophys. Res.*, 112, G03S02, doi:10.1029/2006JG000263.

Achyuthan, H, Kar, A, and Eastoe, C, 2007, Late Quaternary-Holocene lake-level changes in the eastern margin of the Thar Desert, India. *J. Paleolimnol.* 38, 493-507.

Benz, B.F., Li, C., Leavitt, S.W. and Eastoe., C.J., 2006, El Riego and early maize agricultural evolution, in: Staller, J.E., Tykot, R.H. and Benz, B.F. (Eds.) , *Histories of Maize*, Amsterdam, Elsevier, pp. 73-82

Guay, B.E., Eastoe, C.J., Bassett, R.L. and Long, A., 2006, Sources of surface and ground water adjoining the Lower Colorado River inferred by  $\delta^{18}\text{O}$ ,  $\delta\text{D}$  and  $^3\text{H}$  . *Hydrogeology Journal* , 14, 146-188.

50

T.M. Peryt, H. Tomassi-Morawiec, G. Czapowski, S.P. Hryniv, J.J. Pueyo, C.J. Eastoe, and S. Vovnyuk, 2005, Polyhalite occurrence in the Werra (Zechstein, Upper Permian) Peribaltic Basin of Poland and Russia: evaporite facies constraints. *Carbonates and Evaporites*, 20, 182-194

Duane, M., Al-Zamel, A. and Eastoe, C.J., 2004, Stable isotope (chlorine, hydrogen and oxygen), geochemical and field evidence for continental fluid flow vectors in the Al-Khiran sabkha (Kuwait), *African Journal of Earth Sciences*, 40, 49-60

Eastoe, C.J., A. Gu, and A. Long, 2004, The origins, ages and flow paths of groundwater in Tucson Basin: results of a study of multiple isotope systems, in *Groundwater Recharge in a Desert Environment: The Southwestern United States*, edited by J.F. Hogan, F.M. Phillips, and B.R. Scanlon, Water Science and Applications Series, vol. 9, American Geophysical Union, Washington, D.C., 217-234.

Padilla-Garza, R.A., Titley, S. and Eastoe, C.J., 2004, Hypogene evolution of the Escondida porphyry copper deposit, Chile. In Sillitoe, R.H., Perello, J. and Vidal, C.E., eds., *Andean metallogeny: new discoveries, concepts and updates*. Econ. Geol. Spec. Pub. 11, 141-165

Hibbs B., Phillips F., Hogan J., Eastoe C., Hawley J., Granados A., and Hutchison B., 2003, Hydrogeologic and Isotopic Study of the Groundwater Resources of the Hueco Bolson Aquifer El Paso/Juárez Area: *Hydrological Science and Technology*, 19, no.1-4.

Eastoe, C.J. and Artiola, J., 2003, Sulfur and carbon cycling in a flue gas desulfurization sludge disposal site. *Jour. Air Waste Management Assoc.* 53, 417-424

Eastoe, C.J., Fish, S., Fish, P., Dulce Gaspar, M. and Long, A, 2002, Reservoir corrections for marine samples from the South Atlantic coast, Santa Catarina State, Brazil. *Radiocarbon*, in press.

Chernykh E., and Eastoe, C. J., 2002, The radiocarbon dates of the most ancient Kargaly archaeological sites. *Rossiyskaya archaeologia*, no. 2, 44-55

Xiao Yingkai, Zhou Yinming, Wang Qingzhong , Wei Haizhen, Liu Weiguo and Eastoe, C.J., 2002, A secondary isotopic reference material of chlorine from selected seawater. *Chemical Geology*, 182, 655-661.

Eastoe, C.J., Long, A., Land, L.S. and Kyle, J.R., 2001, Stable chlorine isotopes in halite and brine from the Gulf Coast Basin: brine genesis. *Chemical Geology* 176, 343-360

40

Wright, W.E., Long, A., Comrie, A.C., Leavitt, S.W., Cavazos, T., and Eastoe, C., 2001, Monsoonal Moisture Sources Revealed Using Temperature, Precipitation, and Precipitation Stable Isotope Timeseries. *Geophysical Research Letters*, 28, 787-790

Algan, O., Çağatay, N., Tchepalyga, A., Ongan, D., Eastoe, C. and Gökaşan, E., 2001, Stratigraphy of the sediment infill in Bosphorus Strait: water exchange between the Black and Mediterranean Seas during the last glacial Holocene. *Geo-Marine Letters*, 20, 209-218

Çağatay, M.N., Görür, N., Algan, O., Eastoe, C., Tchapylyga, A., Ongan, D., Kuhn, T., and Kuscu, I., 2000, Late glacial-Holocene paleoceanography of the Sea of Marmara: timing of connections with the Mediterranean and the Black Sea. *Marine Geology*, v. 167, p. 191-206.

Gustin, M.M. and Eastoe, C.J., 2000, Geology and ore petrography of Permian kuroko-type volcanogenic massive sulfide deposits of the Bully Hill area, East Shasta district, California: *Economic Geology*, 95, 343-360.

Eastoe, C.J., Long, A., and Knauth, L.P., 1999, Stable chlorine isotopes in the Palo Duro Basin, Texas: Evidence for preservation of Permian evaporite brines: *Geochimica et Cosmochimica Acta*, v. 63, p. 1375-1382.

Çağatay, M.N., Algan, O., Sakıncı, M., Eastoe, C.J., Egesel, L., Balkis, N., Ongan, D., and Caner, H., 1999, A mid-late Holocene sapropelic sediment unit from the southern Marmara Sea shelf and its palaeoceanographic significance: *Quaternary Science Review*, 18, 541-548

Achyuthan, H., and Eastoe, C.J., 1999, Mineralogy and isotopic composition of pyrite-bearing ejecta from a mud volcano, Baratang, Andaman Islands: *Jour. Geol. Soc. India*, v.53, p. 329-334.

McCandless, T.E., Letendre, J. and Eastoe, C.J., 1999, The morphology and carbon isotope chemistry of microdiamonds from the Dachine diamondiferous body, French Guiana. *Proceedings of the 7th International Kimberlite Conference*.

Eastoe, C.J. and Peryt, T., 1999, Multiple sources of chloride in Badenian evaporites, Carpathian Mountains: stable chlorine isotope evidence. *Terra Nova*, v. 11, p. 118-123.

Damon, P., Eastoe, C.J., and Mikheeva, I.B., 1999, The Maunder Minimum: An interlaboratory comparison of  $\delta^{14}\text{C}$  from AD 1688 to AD 1710: *Radiocarbon*, v. 41, p. 47-50.

Damon, P.E., Eastoe, C.J., Hughes, M.K., Kalin, R.M., Long, A., and Peristykh, A.N., 1998, Secular variation of  $\delta^{14}\text{C}$  during the Medieval solar maximum: Progress report: *Radiocarbon*, v. 40, p. 343-350.

Cunningham, E.E.B., Long, A., Eastoe, C.J., and Bassett, R.L., 1998, Migration of recharge waters downgradient from the Santa Catalina Mountains into the Tucson Basin aquifer. *Hydrogeology Journal*, v. 6, p. 94-103.

Miranda-Gasca, M.A., Gómez-Cabellero, A., and Eastoe, C.J., 1998, Borate deposits of northern Sonora, Mexico: stratigraphy, tectonics, stable isotopes and fluid inclusions. *Econ. Geology*, v. 93, p. 510-523.

Eastoe, C.J., Long, A., Tucek, C.S., and Jull, A.J.T., 1998, The  $^{14}\text{C}$  content of lithium metal used in benzene synthesis. *Radiocarbon*, v. 39, p. 343-345.

Jull, A.J.T., Eastoe, C.J., and Cloudt, S., 1997, Isotopic composition of carbonates in the SNC meteorites, Allan Hills 84001 and Zagami. *Journal of Geophysical Research*, v. 102, p. 1663-1669.

Minckley, T.A., Davis, O.K. Eastoe, C.J., and Blinn, D.W., 1997, Analysis of environmental indicators from a mastodon site in the Prescott National Forest, Yavapai County, Arizona. *Journal of Arizona-Nevada Academy of Science*, v. 30, p. 23-29.

Eastoe, C.J., and Gustin, M.M., 1996, Volcanogenic massive sulfide deposits and anoxic events in the Phanerozoic oceans. *Ore Geology Reviews*, v. 10, p. 179-197.

Çagatay, M.N., and Eastoe, C.J., 1995, A sulfur isotope study of volcanogenic massive sulfide deposits of the eastern Black Sea province, Turkey. *Mineralium Deposita*, v. 30, p. 55-60.

Kalin, R.M., McCormac, F.G., Damon, P.E., Eastoe, C.J., and Long, A., 1995, Intercomparison of high-precision  $^{14}\text{C}$  measurements at the University of Arizona Radiocarbon Laboratory: *Radiocarbon*, v. 37, p. 33-38.

Jull, A.J.T., Eastoe, C.J., Xue, S., and Herzog, G.F., 1995, Isotopic composition of carbonates in the SNC meteorites Allan Hills 84001 and Nakhla: *Meteoritics*, v. 30, p. 311-318.

Long, A., Eastoe, C.J., Kaufmann, R.S., Martin, J.G., Wirt, L., and Finley, J.B., 1993, High-precision measurement of chlorine stable isotope ratios. *Geochim. Cosmochim. Acta*, v. 57, p. 2907-2912.

20

Toolin, L.J., and Eastoe, C.J., 1993, Late Pleistocene-Recent atmospheric  $\delta^{13}\text{C}$  record in  $\text{C}_4$  grasses. *Radiocarbon*, v. 35, p. 263-269.

Kaufmann, R., Frape, S., McNutt, R., and Eastoe, C., 1993, Chlorine stable isotope distribution of Michigan Basin formation waters. *Applied Geochemistry*, v. 8, p. 403-407.

Eastoe, C.J., 1992, Redistribution of Cu, Zn, Pb and Ba in the Bollibokka Group, East Shasta, California: implications for metallogeny and geochemical balances. *Chemical Geology*, v. 102, p. 83-103.

Eastoe, C.J., and Guilbert, J.M., 1992, Stable chlorine isotopes in hydrothermal systems. *Geochimica et Cosmochimica Acta*, v. 56, p. 4247-4255.

Park, K-H., Park, H-I., Eastoe, C.J., and Choi, S-W., 1991, Ore minerals, fluid inclusions and isotopic (S, C, O) compositions in the diatreme-hosted Nokdong As-Zn deposit, southeastern Korea: The character and evolution of the hydrothermal fluids: *Journal of the Korean Institute of Mining and Geology*, v. 24, p. 131-150.

Eastoe, C.J., Gustin, M.S., Orr, R., and Hurlbut, D., 1990, Sulfur isotope geochemistry of lower Proterozoic massive sulfide deposits: new data from Arizona, and implications for the chemistry of contemporaneous seawater. *Precambrian Research*, v. 46, p. 353-364.

Lang, J.R., Yin Guan, and Eastoe, C.J., 1989, Stable isotope studies of sulfates and sulfides in the Mineral Park porphyry Cu-Mo system, Arizona. *Economic Geology*, v. 84, p. 650-662.

Eastoe, C.J., Guilbert, J.M., and Kaufmann, R.S., 1989, Preliminary evidence for fractionation of stable chlorine isotopes in hydrothermal systems. *Geology*, v. 17, p. 285-288.

Solomon, M., Eastoe, C.J., Walshe, J.L., and Green, G.M., 1988, Mineral deposits and sulfur isotope abundances in the Mt. Read Volcanics between Que River and Mt. Darwin, Tasmania. *Economic Geology*, v. 83, p. 1307-1328.

Lang, J.R., and Eastoe, C.J., 1988, Relationships between a porphyry Cu-Mo deposits, base-metal veins and Laramide intrusions, Mineral Park, Arizona. *Economic Geology*, v. 83, p. 551-566.

Eastoe, C.J., and Nelson, S.E., 1988, A Permian kuroko-type hydrothermal system, Afterthought-Ingot area, Shasta County, California: lateral and vertical sections, and geochemical evolution. *Economic Geology*, v. 83, p. 588-605.

Eastoe, C.J., Solomon, M. and Walshe, J.L., 1987, District scale alteration associated with massive sulfide deposits in the Mt. Read Volcanics, western Tasmania. *Econ. Geol.*, v. 82, p. 1239-1258.

Solomon, M., Walshe, J.L., and Eastoe, C.J., 1987, Experiments on convection and their relevance to the genesis of massive sulphide deposits. *Australian Jour. Earth Sciences*, v. 34, p. 311-323.

Eastoe, C.J., Gustin, M.M. and Nelson, S.E., 1987, Problems of recognition of olistostromes: an example from the lower Pit Formation, eastern Klamath Mountains, California. *Geology*, v. 15, p. 541-544.

Eastoe, C.J., Solomon, M., and Garcia Palomero, F., 1986, A sulphur isotope study of the massive and stockwork pyrite deposits at Rio Tinto, Spain. *Trans. Institution Mining Metallurgy, London*, v. 95, B201-B207.

Eastoe, C.J., and Eadington, P.J., 1986, High-temperature fluid inclusions and the role of the biotite granodiorite in mineralization at Panguna porphyry copper deposit, Bougainville. *Econ. Geol.*, v. 81, p. 478-483.



Polya, D.A., Solomon, M., Eastoe, C.J., and Walshe, J.L., 1986, The Murchison Gorge, Tasmania: a possible cross-section through a Cambrian massive sulfide system. *Econ. Geol.*, v. 81, p. 1341-1355.

Eastoe, C.J., 1983, Sulfur isotope data and the nature of the hydrothermal systems at the Panguna and Frieda porphyry copper deposits, Papua New Guinea. *Econ. Geol.*, v. 78, p. 201-213.

Eastoe, C.J., 1982, The physics and chemistry of the hydrothermal system in the Panguna porphyry copper deposit, Bougainville, Papua New Guinea. *Econ. Geol.*, v. 77, p. 127-153.

Eastoe, C.J., 1978, A fluid inclusion study of the Panguna porphyry copper deposit, Bougainville, Papua New Guinea. *Econ. Geol.*, v. 73, p. 721-748.