

# GS30420 Volcanic Activity: Hazard and Environmental Change

[View Online](#)

. . Atmospheric and Environmental Effects of the 1783---1784 Laki Eruption: A Review and Reassessment. <http://seismo.berkeley.edu/~manga/LIPS/thordarson03.pdf>.

A. Guevara-Murua. 'Observations of a Stratospheric Aerosol Veil from a Tropical Volcanic Eruption in December 1808: Is This the Unknown &sim;1809 Eruption?' *Climate of the Past*, vol. 10, no. 5, pp. 1707-1707, <https://go.gale.com/ps/i.do?&id=GALE|A481428553&v=2.1&u=uniaber&p;it=r&p=AONE&sw=w>.

A New Approach to Assess Long---term Lava Flow Hazard and Risk Using GIS and Low---cost Remote Sensing: The Case of Mount Cameroon, West Africa. <http://www.tandfonline.com/doi/pdf/10.1080/01431160802167873>.

Abbott, David A., et al. *Surviving Sudden Environmental Change: Answers from Archaeology*. 1st ed, University Press of Colorado, 2012, [https://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&p;package\\_service\\_id=5195538870002418&institutionId=2418&customerId=2415](https://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&p;package_service_id=5195538870002418&institutionId=2418&customerId=2415).

Abdullah, Mikrajuddin. *Interpretation of Past Kingdoms Poems to Reconstruct the Physical Phenomena in the Past: Case of Great Tambora Eruption 1815*. 2012, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_arxiv1609.09225&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,tambora&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_arxiv1609.09225&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,tambora&offset=0).

'After Tambora'. *The Economist*, 20150411, <https://www.economist.com/news/briefing/21647958-two-hundred-years-ago-most-powerful-eruption-modern-history-made-itself-felt-around>.

Age of the Emeishan Flood Magmatism and Relations to Permian-Triassic Boundary Events. [https://doi.org/10.1016/S0012-821X\(02\)00535-6](https://doi.org/10.1016/S0012-821X(02)00535-6).

Albore Livadie, Claude, et al. 'The Effects of the Avellino Pumice Eruption on the Population of the Early Bronze Age Campanian Plain (Southern Italy)'. *Quaternary International*, vol. 499, Jan. 2019, pp. 205-20, <https://doi.org/10.1016/j.quaint.2018.03.035>.

———. 'The Effects of the Avellino Pumice Eruption on the Population of the Early Bronze Age Campanian Plain (Southern Italy)'. *Quaternary International*, vol. 499, Jan. 2019, pp. 205-20, <https://doi.org/10.1016/j.quaint.2018.03.035>.

———. 'The Effects of the Avellino Pumice Eruption on the Population of the Early Bronze Age Campanian Plain (Southern Italy)'. *Quaternary International*, vol. 499, Jan. 2019, pp. 205–20, <https://doi.org/10.1016/j.quaint.2018.03.035>.

Alexander, Karen E., et al. 'Tambora and the Mackerel Year: Phenology and Fisheries during an Extreme Climate Event'. *Science Advances*, vol. 3, no. 1, Jan. 2017, <https://doi.org/10.1126/sciadv.1601635>.

Allen, Judy R. M., et al. 'Weichselian Palynostratigraphy, Palaeovegetation and Palaeoenvironment; the Record from Lago Grande Di Monticchio, Southern Italy'. *Quaternary International*, vols 73–74, Nov. 2000, pp. 91–110, [https://doi.org/10.1016/S1040-6182\(00\)00067-7](https://doi.org/10.1016/S1040-6182(00)00067-7).

Allibone, Rachel, et al. 'Dental Fluorosis Linked to Degassing of Ambrym Volcano, Vanuatu: A Novel Exposure Pathway'. *Environmental Geochemistry and Health*, vol. 34, no. 2, Apr. 2012, pp. 155–70, <https://doi.org/10.1007/s10653-010-9338-2>.

Alloway, Brent V., et al. 'Archaeological Implications of a Widespread 13th Century Tephra Marker across the Central Indonesian Archipelago'. *Quaternary Science Reviews*, vol. 155, Jan. 2017, pp. 86–99, <https://doi.org/10.1016/j.quascirev.2016.11.020>.

Alwyn Scarth. *La Catastrophe: Mount Pelée and the Destruction of Saint-Pierre, Martinique* - Alwyn Scarth - Google Books. Terra, 2002, [http://books.google.co.uk/books/about/La\\_catastrophe.html?id=SxROAQAAIAAJ&redir\\_esc=y](http://books.google.co.uk/books/about/La_catastrophe.html?id=SxROAQAAIAAJ&redir_esc=y).

Ambrose, Stanley H. 'Late Pleistocene Human Population Bottlenecks, Volcanic Winter, and Differentiation of Modern Humans'. *Journal of Human Evolution*, vol. 34, no. 6, June 1998, pp. 623–51, <https://doi.org/10.1006/jhev.1998.0219>.

Andreastuti, Supriyati, et al. 'Character of Community Response to Volcanic Crises at Sinabung and Kelud Volcanoes'. *Journal of Volcanology and Geothermal Research*, vol. 382, Sept. 2019, pp. 298–310, <https://doi.org/10.1016/j.jvolgeores.2017.01.022>.

Andrei A. Sinitsyn. 'A Palaeolithic 'Pompeii' at Kostenki, Russia. (Research)'. *Antiquity*, vol. 77, no. 295, pp. 9–15, [https://go.gale.com/ps/retrieve.do?tabID=T002&resultListType=RESULT\\_LIST&searchResultsType=SingleTab&searchType=AdvancedSearchForm&currentPosition=1&docId=GALE%7CA100484921&docType=Article&sort=RELEVANCE&contentSegment=ZONE-MOD1&prodId=AONE&contentSet=GALE%7CA100484921&searchId=R1&userGroupName=uniaber&inPS=true](https://go.gale.com/ps/retrieve.do?tabID=T002&resultListType=RESULT_LIST&searchResultsType=SingleTab&searchType=AdvancedSearchForm&currentPosition=1&docId=GALE%7CA100484921&docType=Article&sort=RELEVANCE&contentSegment=ZONE-MOD1&prodId=AONE&contentSet=GALE%7CA100484921&searchId=R1&userGroupName=uniaber&inPS=true).

Angela K Diefenbach. 'Variations in Community Exposure to Lahar Hazards from Multiple Volcanoes in Washington State (USA)'. *Journal of Applied Volcanology*, vol. 4, no. 1, 2015, <https://appliedvolc.biomedcentral.com/articles/10.1186/s13617-015-0024-z>.

Anja Schmidt. [https://www.researchgate.net/profile/Anja\\_Schmidt](https://www.researchgate.net/profile/Anja_Schmidt).

Anja Schmidt, Bart Ostro, Kenneth S. Carslaw, Marjorie Wilson, Thorvaldur Thordarson, Graham W. Mann and Adrian J. Simmons. 'Excess Mortality in Europe Following a Future Laki-Style Icelandic Eruption'. *Proceedings of the National Academy of Sciences of the*

United States of America, vol. 108, no. 38, 2011, pp. 15710–15,  
[http://www.jstor.org/stable/41352334?seq=1#page\\_scan\\_tab\\_contents](http://www.jstor.org/stable/41352334?seq=1#page_scan_tab_contents).

———. 'Excess Mortality in Europe Following a Future Laki-Style Icelandic Eruption'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 108, no. 38, 2011, pp. 15710–15,  
[http://www.jstor.org/stable/41352334?seq=1#page\\_scan\\_tab\\_contents](http://www.jstor.org/stable/41352334?seq=1#page_scan_tab_contents).

Anja Schmidt, Claire S. Witham, Nicolas Theys, Nigel A. D. Richards, Thorvaldur Thordarson, Kate Szpek, Wuhu Feng, Matthew C. Hort, Alan M. Woolley, Andrew R. Jones, Alison L. Redington, Ben T. Johnson, Chris L. Hayward, Kenneth S. Carslaw. 'Assessing Hazards to Aviation from Sulfur Dioxide Emitted by Explosive Icelandic Eruptions'. *Journal of Geophysical Research: Atmospheres*, vol. 119, no. 24, 2014, p. 14,180-14,196,  
<https://doi.org/10.1002/2014JD022070>.

Anja Schmidt, Susan Leadbetter, Nicolas Theys, Elisa Carboni, Claire S. Witham, John A. Stevenson, Cathryn E. Birch, Thorvaldur Thordarson, Steven Turnock, Sara Barsotti, Lin Delaney, Wuhu Feng, Roy G. Grainger, Matthew C. Hort, Ármann Höskuldsson, Iolanda Ialongo, Evgenia Ilyinskaya, Thorsteinn Jóhannsson, Patrick Kenny, Tamsin A. Mather, Nigel A. D. Richards, Janet Shepherd. 'Satellite Detection, Long-range Transport, and Air Quality Impacts of Volcanic Sulfur Dioxide from the 2014–2015 Flood Lava Eruption at Bárðarbunga (Iceland)'. *Journal of Geophysical Research: Atmospheres*, vol. 120, no. 18, 2015, pp. 9739–57, <https://doi.org/10.1002/2015JD023638>.

———. 'Satellite Detection, Long-range Transport, and Air Quality Impacts of Volcanic Sulfur Dioxide from the 2014–2015 Flood Lava Eruption at Bárðarbunga (Iceland)'. *Journal of Geophysical Research: Atmospheres*, vol. 120, no. 18, 2015, pp. 9739–57,  
<https://doi.org/10.1002/2015JD023638>.

Aquila, Valentina, et al. 'Dispersion of the Volcanic Sulfate Cloud from a Mount Pinatubo-like Eruption'. *Journal of Geophysical Research: Atmospheres*, vol. 117, no. D6, Mar. 2012, p. n/a-n/a, <https://doi.org/10.1029/2011JD016968>.

Arfeuille, F., et al. 'Volcanic Forcing for Climate Modeling: A New Microphysics-Based Data Set Covering Years 1600–Present'. *Climate of the Past*, vol. 10, no. 1, Feb. 2014, pp. 359–75, <https://doi.org/10.5194/cp-10-359-2014>.

Armijos, Maria Teresa, et al. 'Adapting to Changes in Volcanic Behaviour: Formal and Informal Interactions for Enhanced Risk Management at Tungurahua Volcano, Ecuador'. *Global Environmental Change*, vol. 45, July 2017, pp. 217–26,  
<https://doi.org/10.1016/j.gloenvcha.2017.06.002>.

Assessing Hazards to Aviation from Sulfur Dioxide Emitted by Explosive Icelandic Eruptions - Schmidt et al, 2014, JGR, [Assessing\\_SO2\\_aviation\\_hazards.Pdf](http://eprints.whiterose.ac.uk/82709/1/Schmidt%20et%20al%2C%202014%2C%20JGR%2C%20Assessing_SO2_aviation_hazards.pdf).  
[http://eprints.whiterose.ac.uk/82709/1/Schmidt%20et%20al%2C%202014%2C%20JGR%2C%20Assessing\\_SO2\\_aviation\\_hazards.pdf](http://eprints.whiterose.ac.uk/82709/1/Schmidt%20et%20al%2C%202014%2C%20JGR%2C%20Assessing_SO2_aviation_hazards.pdf).

Athanassas, C. D., et al. 'Contouring the Cataclysm: A Geographical Analysis of the Effects of the Minoan Eruption of the Santorini Volcano'. *Environmental Archaeology*, vol. 23, no. 2, Apr. 2018, pp. 160–76, <https://doi.org/10.1080/14614103.2017.1288885>.

———. 'Contouring the Cataclysm: A Geographical Analysis of the Effects of the Minoan Eruption of the Santorini Volcano'. *Environmental Archaeology*, vol. 23, no. 2, Apr. 2018, pp. 160–76, <https://doi.org/10.1080/14614103.2017.1288885>.

Badertscher, S., et al. 'Speleothems as Sensitive Recorders of Volcanic Eruptions – the Bronze Age Minoan Eruption Recorded in a Stalagmite from Turkey'. *Earth and Planetary Science Letters*, vol. 392, Apr. 2014, pp. 58–66, <https://doi.org/10.1016/j.epsl.2014.01.041>.

Bakkour, Darine, et al. 'The Adaptive Governance of Natural Disaster Systems: Insights from the 2010 Mount Merapi Eruption in Indonesia'. *International Journal of Disaster Risk Reduction*, vol. 13, Sept. 2015, pp. 167–88, <https://doi.org/10.1016/j.ijdrr.2015.05.006>.

Baldini, James U. L., et al. 'Evaluating the Link between the Sulfur-Rich Laacher See Volcanic Eruption and the Younger Dryas Climate Anomaly'. *Climate of the Past*, vol. 14, no. 7, July 2018, pp. 969–90, <https://doi.org/10.5194/cp-14-969-2018>.

Baldini, James U.L., et al. 'Was Millennial Scale Climate Change during the Last Glacial Triggered by Explosive Volcanism?' *Scientific Reports*, vol. 5, no. 1, Dec. 2015, <https://doi.org/10.1038/srep17442>.

Balkanski, Y., et al. 'Mortality Induced by PM2.5 Exposure Following the 1783 Laki Eruption Using Reconstructed Meteorological Fields'. *Scientific Reports*, vol. 8, no. 1, Dec. 2018, <https://doi.org/10.1038/s41598-018-34228-7>.

Barberi, F., M. Martini, et al. 'Nevado Del Ruiz Volcano (Colombia): Pre-Eruption Observations and the November 13, 1985 Catastrophic Event'. *Journal of Volcanology and Geothermal Research*, vol. 42, nos 1–2, July 1990, pp. 1–12, [https://doi.org/10.1016/0377-0273\(90\)90066-O](https://doi.org/10.1016/0377-0273(90)90066-O).

Barberi, F., M. L. Carapezza, et al. 'The Control of Lava Flow during the 1991–1992 Eruption of Mt. Etna'. *Journal of Volcanology and Geothermal Research*, vol. 56, nos 1–2, May 1993, pp. 1–34, [https://doi.org/10.1016/0377-0273\(93\)90048-V](https://doi.org/10.1016/0377-0273(93)90048-V).

Barclay, J., et al. 'Framing Volcanic Risk Communication within Disaster Risk Reduction: Finding Ways for the Social and Physical Sciences to Work Together'. *Geological Society, London, Special Publications*, vol. 305, no. 1, Jan. 2008, pp. 163–77, <https://doi.org/10.1144/SP305.14>.

Barclay, Jenni, et al. 'Livelihoods, Wellbeing and the Risk to Life During Volcanic Eruptions'. *Frontiers in Earth Science*, vol. 7, Aug. 2019, <https://doi.org/10.3389/feart.2019.00205>.

Behringer, Wolfgang, and Pamela E. Selwyn. *Tambora and the Year without a Summer: How a Volcano Plunged the World into Crisis*. Polity, 2019.

Bercovici, Antoine, et al. 'Terrestrial Paleoenvironment Characterization across the Permian–Triassic Boundary in South China'. *Journal of Asian Earth Sciences*, vol. 98, Feb. 2015, pp. 225–46, <https://doi.org/10.1016/j.jseaes.2014.11.016>.

Bethke, Ingo, et al. 'Potential Volcanic Impacts on Future Climate Variability'. *Nature Climate Change*, vol. 7, no. 11, Nov. 2017, pp. 799–805,

<https://doi.org/10.1038/nclimate3394>.

Bias, Sebastien, and Costanza Bonadonna. 'A Fast GIS-Based Risk Assessment for Tephra Fallout: The Example of Cotopaxi Volcano, Ecuador'. *Natural Hazards*, vol. 65, no. 1, Jan. 2013, pp. 477–95, <https://doi.org/10.1007/s11069-012-0378-z>.

———. 'A Fast GIS-Based Risk Assessment for Tephra Fallout: The Example of Cotopaxi Volcano, Ecuador'. *Natural Hazards*, vol. 65, no. 1, Jan. 2013, pp. 477–95, <https://doi.org/10.1007/s11069-012-0378-z>.

Black, Benjamin A., Jean-François Lamarque, et al. 'Acid Rain and Ozone Depletion from Pulsed Siberian Traps Magmatism'. *Geology*, vol. 42, no. 1, Jan. 2014, pp. 67–70, <https://doi.org/10.1130/G34875.1>.

Black, Benjamin A., Ryan R. Neely, et al. 'Campanian Ignimbrite Volcanism, Climate, and the Final Decline of the Neanderthals'. *Geology*, vol. 43, no. 5, May 2015, pp. 411–14, <https://doi.org/10.1130/G36514.1>.

Black, Benjamin A., Erik H. Hauri, et al. 'Sulfur Isotopic Evidence for Sources of Volatiles in Siberian Traps Magmas'. *Earth and Planetary Science Letters*, vol. 394, May 2014, pp. 58–69, <https://doi.org/10.1016/j.epsl.2014.02.057>.

Bond, David P. G., and Stephen E. Grasby. 'On the Causes of Mass Extinctions'. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 478, July 2017, pp. 3–29, <https://doi.org/10.1016/j.palaeo.2016.11.005>.

Bottema, Sytze, and Anaya Sarpaki. 'Environmental Change in Crete: A 9000-Year Record of Holocene Vegetation History and the Effect of the Santorini Eruption'. *The Holocene*, vol. 13, no. 5, July 2003, pp. 733–49, <https://doi.org/10.1191/0959683603hl659rp>.

Brá. 'Climatic Effects and Impacts of the 1815 Eruption of Mount Tambora in the Czech Lands'. *Climate of the Past*, vol. 12, no. 6, 2012, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_gale\\_ofa503206931&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,tambora&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_gale_ofa503206931&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,tambora&offset=0).

Brázdil, Rudolf, et al. 'European Floods during the Winter 1783/1784: Scenarios of an Extreme Event during the "Little Ice Age"'. *Theoretical and Applied Climatology*, vol. 100, nos 1–2, Mar. 2010, pp. 163–89, <https://doi.org/10.1007/s00704-009-0170-5>.

Brian J. Soden. 'Global Cooling after the Eruption of Mount Pinatubo: A Test of Climate Feedback by Water Vapor. (Reports)'. *Science*, vol. 296, no. 5568, pp. 727–31, <https://go.gale.com/ps/i.do?p=AONE&u=uniaber&id=GALE|A86062245&v=2.1&it=r>.

Brian Zambri, Allegra N. LeGrande, Alan Robock, Joanna Slawinska. 'Northern Hemisphere Winter Warming and Summer Monsoon Reduction after Volcanic Eruptions over the Last Millennium'. *Journal of Geophysical Research: Atmospheres*, vol. 122, no. 15, 2017, pp. 7971–89, <https://doi.org/10.1002/2017JD026728>.

Bruins, Hendrik J., et al. 'Tephra in Caves: Distal Deposits of the Minoan Santorini Eruption and the Campanian Super-Eruption'. *Quaternary International*, vol. 499, Jan. 2019, pp. 135-47, <https://doi.org/10.1016/j.quaint.2018.09.040>.

———. 'Tephra in Caves: Distal Deposits of the Minoan Santorini Eruption and the Campanian Super-Eruption'. *Quaternary International*, vol. 499, Jan. 2019, pp. 135-47, <https://doi.org/10.1016/j.quaint.2018.09.040>.

Buizert, Christo, et al. 'Abrupt Ice-Age Shifts in Southern Westerly Winds and Antarctic Climate Forced from the North'. *Nature*, vol. 563, no. 7733, Nov. 2018, pp. 681-85, <https://doi.org/10.1038/s41586-018-0727-5>.

Campbell, Bruce M. S. 'GLOBAL CLIMATES, THE 1257 MEGA-ERUPTION OF SAMALAS VOLCANO, INDONESIA, AND THE ENGLISH FOOD CRISIS OF 1258'. *Transactions of the Royal Historical Society*, vol. 27, Dec. 2017, pp. 87-121, <https://doi.org/10.1017/S0080440117000056>.

Cao, Shuji. 'Mt. Tambora, Climatic Changes, and China's Decline in the Nineteenth Century'. *Journal of World History*, vol. 23, no. 3, 2012, pp. 587-607, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_museS1527805012300043&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,tambora&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_museS1527805012300043&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,tambora&offset=0).

Cashman, K. V., and G. Giordano. 'Volcanoes and Human History'. *Journal of Volcanology and Geothermal Research*, vol. 176, no. 3, Oct. 2008, pp. 325-29, <https://doi.org/10.1016/j.jvolgeores.2008.01.036>.

Chester, David K., Angus M. Duncan, and Heather Sangster. 'Human Responses to Eruptions of Etna (Sicily) during the Late-Pre-Industrial Era and Their Implications for Present-Day Disaster Planning'. *Journal of Volcanology and Geothermal Research*, vols 225-226, May 2012, pp. 65-80, <https://doi.org/10.1016/j.jvolgeores.2012.02.017>.

Chester, David K., Angus M. Duncan, and Christopher J. L. Dibben. 'The Importance of Religion in Shaping Volcanic Risk Perception in Italy, with Special Reference to Vesuvius and Etna'. *Journal of Volcanology and Geothermal Research*, vol. 172, nos 3-4, May 2008, pp. 216-28, <https://doi.org/10.1016/j.jvolgeores.2007.12.009>.

Chester, David K, et al. 'Volcanic Hazard Assessment in Western Europe'. *Journal of Volcanology and Geothermal Research*, vol. 115, nos 3-4, June 2002, pp. 411-35, [https://doi.org/10.1016/S0377-0273\(02\)00210-X](https://doi.org/10.1016/S0377-0273(02)00210-X).

Chester, David K. *Volcanoes and Society*. E. Arnold, 1994.

Clarkson, Chris. 'Continuity and Change in the Lithic Industries of the Jurreru Valley, India, before and after the Toba Eruption.(Report)'. *Quaternary International*, vol. 258, 2014, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_gale\\_ofa285620226&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,%22toba%20eruption%22&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_gale_ofa285620226&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,%22toba%20eruption%22&offset=0).

Cole-Dai, Jihong, et al. 'Cold Decade (AD 1810–1819) Caused by Tambora (1815) and Another (1809) Stratospheric Volcanic Eruption'. *Geophysical Research Letters*, vol. 36, no. 22, Nov. 2009, <https://doi.org/10.1029/2009GL040882>.

Communicating Eruption and Hazard Forecasts on Vesuvius, Southern Italy.  
[http://www.ucl.ac.uk/volcanoscope/files/pdf%20files/Solana%20et%20al\\_Hazard%20Perception\\_Vesuvius\\_JVGR\\_2008.pdf](http://www.ucl.ac.uk/volcanoscope/files/pdf%20files/Solana%20et%20al_Hazard%20Perception_Vesuvius_JVGR_2008.pdf).

Connor, C. B. 'Exploring Links between Physical and Probabilistic Models of Volcanic Eruptions: The Soufrière Hills Volcano, Montserrat'. *Geophysical Research Letters*, vol. 30, no. 13, 2003, <https://doi.org/10.1029/2003GL017384>.

Convertito, Vincenzo, and Aldo Zollo. 'Assessment of Pre-Crisis and Syn-Crisis Seismic Hazard at Campi Flegrei and Mt. Vesuvius Volcanoes, Campania, Southern Italy'. *Bulletin of Volcanology*, vol. 73, no. 6, Aug. 2011, pp. 767–83, <https://doi.org/10.1007/s00445-011-0455-2>.

Cooper, Claire L., et al. 'Evaluating the Relationship between Climate Change and Volcanism'. *Earth-Science Reviews*, vol. 177, Feb. 2018, pp. 238–47, <https://doi.org/10.1016/j.earscirev.2017.11.009>.

Costa, A., et al. 'Quantifying Volcanic Ash Dispersal and Impact of the Campanian Ignimbrite Super-Eruption'. *Geophysical Research Letters*, vol. 39, no. 10, May 2012, p. n/a-n/a, <https://doi.org/10.1029/2012GL051605>.

Countries | UNITAR. <https://unitar.org/maps/countries>.

Courtillot, V., et al. 'On Causal Links between Flood Basalts and Continental Breakup'. *Earth and Planetary Science Letters*, vol. 166, nos 3–4, Mar. 1999, pp. 177–95, [https://doi.org/10.1016/S0012-821X\(98\)00282-9](https://doi.org/10.1016/S0012-821X(98)00282-9).

Cousins, Claire R., and Ian A. Crawford. 'Volcano-Ice Interaction as a Microbial Habitat on Earth and Mars'. *Astrobiology*, vol. 11, no. 7, Sept. 2011, pp. 695–710, <https://doi.org/10.1089/ast.2010.0550>.

Cp-2017-147.Pdf. <https://www.clim-past-discuss.net/cp-2017-147/cp-2017-147.pdf>.

Cui, Ying, and Lee R. Kump. 'Global Warming and the End-Permian Extinction Event: Proxy and Modeling Perspectives'. *Earth-Science Reviews*, vol. 149, Oct. 2015, pp. 5–22, <https://doi.org/10.1016/j.earscirev.2014.04.007>.

Darcy E. Ogden and Norman H. Sleep. 'Explosive Eruption of Coal and Basalt and the End-Permian Mass Extinction'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 109, no. 1, 2012, [https://www.jstor.org/stable/23076231?seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/23076231?seq=1#metadata_info_tab_contents).

———. 'Explosive Eruption of Coal and Basalt and the End-Permian Mass Extinction'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 109, no. 1, 2012, [https://www.jstor.org/stable/23076231?seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/23076231?seq=1#metadata_info_tab_contents).  
D'Arrigo, Rosanne, Richard Seager, et al. 'The Anomalous Winter of 1783-1784: Was the Laki Eruption or an Analog of the 2009-2010 Winter to Blame?' *Geophysical Research*

Letters, vol. 38, no. 5, Mar. 2011, p. n/a-n/a, <https://doi.org/10.1029/2011GL046696>.

D'Arrigo, Rosanne, Rob Wilson, et al. 'Volcanic Cooling Signal in Tree Ring Temperature Records for the Past Millennium'. *Journal of Geophysical Research: Atmospheres*, vol. 118, no. 16, Aug. 2013, pp. 9000–10, <https://doi.org/10.1002/jgrd.50692>.

De la Cruz-Reyna, Servando, and Robert I. Tilling. 'Scientific and Public Responses to the Ongoing Volcanic Crisis at Popocatepetl Volcano, Mexico: Importance of an Effective Hazards-Warning System'. *Journal of Volcanology and Geothermal Research*, vol. 170, nos 1–2, Feb. 2008, pp. 121–34, <https://doi.org/10.1016/j.jvolgeores.2007.09.002>.

Deccan Volcanism Caused Coupled pCO<sub>2</sub> and Terrestrial Temperature Rises, and Pre-Impact Extinctions in Northern China - Zhang et al., Accepted.Pdf.  
<http://eprints.whiterose.ac.uk/128432/1/Zhang%20et%20al.%2C%20accepted.pdf>.

Decker, Robert W., and Barbara Decker. *Volcanoes*. 3rd ed, W. H. Freeman, 1998.

Delos Reyes, Perla J., et al. 'A Synthesis and Review of Historical Eruptions at Taal Volcano, Southern Luzon, Philippines'. *Earth-Science Reviews*, vol. 177, Feb. 2018, pp. 565–88, <https://doi.org/10.1016/j.earscirev.2017.11.014>.

Di Vito, Mauro A., et al. 'Dynamics and Effects of the Vesuvius Pomici Di Avellino Plinian Eruption and Related Phenomena on the Bronze Age Landscape of Campania Region (Southern Italy)'. *Quaternary International*, vol. 499, Jan. 2019, pp. 231–44, <https://doi.org/10.1016/j.quaint.2018.03.021>.

Dibben, Christopher, and David K. Chester. 'Human Vulnerability in Volcanic Environments: The Case of Furnas, São Miguel, Azores'. *Journal of Volcanology and Geothermal Research*, vol. 92, nos 1–2, Sept. 1999, pp. 133–50, [https://doi.org/10.1016/S0377-0273\(99\)00072-4](https://doi.org/10.1016/S0377-0273(99)00072-4).

Dogar, Muhammad Mubashar, et al. 'Sensitivity of the Regional Climate in the Middle East and North Africa to Volcanic Perturbations'. *Journal of Geophysical Research: Atmospheres*, vol. 122, no. 15, Aug. 2017, pp. 7922–48, <https://doi.org/10.1002/2017JD026783>.

Driessen, Jan. 'The Santorini Eruption. An Archaeological Investigation of Its Distal Impacts on Minoan Crete'. *Quaternary International*, vol. 499, Jan. 2019, pp. 195–204, <https://doi.org/10.1016/j.quaint.2018.04.019>.

Dunbar, Nelia W., et al. 'New Zealand Supereruption Provides Time Marker for the Last Glacial Maximum in Antarctica'. *Scientific Reports*, vol. 7, no. 1, Dec. 2017, <https://doi.org/10.1038/s41598-017-11758-0>.

*Earth-Science Reviews*. vol. 149, 2015,  
<https://www.sciencedirect.com/journal/earth-science-reviews/vol/149>.

Effects of Volcanic Air Pollution on Health.  
[https://www.researchgate.net/publication/12118448\\_Effects\\_of\\_volcanic\\_air\\_pollution\\_on\\_h](https://www.researchgate.net/publication/12118448_Effects_of_volcanic_air_pollution_on_health)  
ealth.

Ernst, Richard E., et al. 'Frontiers in Large Igneous Province Research'. *Lithos*, vol. 79, nos

3–4, Feb. 2005, pp. 271–97, <https://doi.org/10.1016/j.lithos.2004.09.004>.

Ernst, Richard E., and Nasrddine Youbi. 'How Large Igneous Provinces Affect Global Climate, Sometimes Cause Mass Extinctions, and Represent Natural Markers in the Geological Record'. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 478, July 2017, pp. 30–52, <https://doi.org/10.1016/j.palaeo.2017.03.014>.

———. 'How Large Igneous Provinces Affect Global Climate, Sometimes Cause Mass Extinctions, and Represent Natural Markers in the Geological Record'. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 478, July 2017, pp. 30–52, <https://doi.org/10.1016/j.palaeo.2017.03.014>.

Evidence---based Volcanology: Application to Eruption Crises.  
[http://www.geo.mtu.edu/~raman/VTimeSer/Bayesian\\_files/aspinall\\_etal\\_evidence\\_based\\_volcanology\\_application\\_eruption\\_crisis\\_Galeras.pdf](http://www.geo.mtu.edu/~raman/VTimeSer/Bayesian_files/aspinall_etal_evidence_based_volcanology_application_eruption_crisis_Galeras.pdf).

Expert Judgment and the Montserrat Volcano Eruption.  
<http://dutiosc.twi.tudelft.nl/~risk/extrafiles/EJcourse/Sheets/Aspinall%20&%20Cooke%20PSAM4%203-9.pdf>.

Fahrenkamp-Uppenbrink, Julia. 'Preparing for the next Supereruption'. *Science*, vol. 363, no. 6433, Mar. 2019, p. 1296.16–1298, <https://doi.org/10.1126/science.363.6433.1296-p>.

Fantasia, Alicia, et al. 'Palaeoenvironmental Changes Associated with Deccan Volcanism, Examples from Terrestrial Deposits from Central India'. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 441, Jan. 2016, pp. 165–80, <https://doi.org/10.1016/j.palaeo.2015.06.032>.

Fearnley, C. J., et al. 'Standardisation of the USGS Volcano Alert Level System (VALS): Analysis and Ramifications'. *Bulletin of Volcanology*, vol. 74, no. 9, Nov. 2012, pp. 2023–36, <https://doi.org/10.1007/s00445-012-0645-6>.

Fearnley, Carina J., et al., editors. *Observing the Volcano World: Volcano Crisis Communication*. 1st ed. 2018, Springer International Publishing, 2018, [http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=3783283660002418&institutionId=2418&customerId=2415](http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3783283660002418&institutionId=2418&customerId=2415). Electronic resource.

Fedele, Francesco G., Biagio Giaccio, Roberto Isaia, et al. 'Ecosystem Impact of the Campanian Ignimbrite Eruption in Late Pleistocene Europe'. *Quaternary Research*, vol. 57, no. 3, May 2002, pp. 420–24, <https://doi.org/10.1006/qres.2002.2331>.

Fedele, Francesco G., Biagio Giaccio, and Irka Hajdas. 'Timescales and Cultural Process at 40,000BP in the Light of the Campanian Ignimbrite Eruption, Western Eurasia'. *Journal of Human Evolution*, vol. 55, no. 5, Nov. 2008, pp. 834–57, <https://doi.org/10.1016/j.jhevol.2008.08.012>.

Fei, Jie, and Jie Zhou. 'The Drought and Locust Plague of 942–944 AD in the Yellow River Basin, China'. *Quaternary International*, vol. 394, Feb. 2016, pp. 115–22, <https://doi.org/10.1016/j.quaint.2014.11.053>.

———. 'The Possible Climatic Impact in China of Iceland's Eldgjá Eruption Inferred from Historical Sources'. *Climatic Change*, vol. 76, nos 3–4, June 2006, pp. 443–57, <https://doi.org/10.1007/s10584-005-9012-3>.

———. 'The Possible Climatic Impact in China of Iceland's Eldgjá Eruption Inferred from Historical Sources'. *Climatic Change*, vol. 76, nos 3–4, June 2006, pp. 443–57, <https://doi.org/10.1007/s10584-005-9012-3>.

Fendley, Isabel M., et al. 'Constraints on the Volume and Rate of Deccan Traps Flood Basalt Eruptions Using a Combination of High-Resolution Terrestrial Mercury Records and Geochemical Box Models'. *Earth and Planetary Science Letters*, vol. 524, Oct. 2019, <https://doi.org/10.1016/j.epsl.2019.115721>.

Few, Roger, et al. 'Living with Volcan Tungurahua: The Dynamics of Vulnerability during Prolonged Volcanic Activity'. *Geoforum*, vol. 80, Mar. 2017, pp. 72–81, <https://doi.org/10.1016/j.geoforum.2017.01.006>.

———. 'Living with Volcan Tungurahua: The Dynamics of Vulnerability during Prolonged Volcanic Activity'. *Geoforum*, vol. 80, Mar. 2017, pp. 72–81, <https://doi.org/10.1016/j.geoforum.2017.01.006>.

Firth, Callum R., and Bill McGuire. *Volcanoes in the Quaternary*. Geological Society, 1999.  
Fitzsimmons, Kathryn E., et al. 'The Campanian Ignimbrite Eruption: New Data on Volcanic Ash Dispersal and Its Potential Impact on Human Evolution'. *PLoS ONE*, vol. 8, no. 6, June 2013, <https://doi.org/10.1371/journal.pone.0065839>.

Flückiger, Simon, et al. 'Simulating Crop Yield Losses in Switzerland for Historical and Present Tambora Climate Scenarios'. *Environmental Research Letters*, vol. 12, no. 7, July 2017, <https://doi.org/10.1088/1748-9326/aa7246>.

Francis, Peter, and Clive Oppenheimer. *Volcanoes - 10 Copies in the Library*. 2nd ed, Oxford University Press, 2004.

Franck Lavigne, Jean-Philippe Degeai, Jean-Christophe Komorowski, Sébastien Guillet, Vincent Robert, Pierre Lahitte, Clive Oppenheimer, Markus Stoffel, Céline M. Vidal, Surono, Indyo Pratomo, Patrick Wassmer, Irka Hajdas, Danang Sri Hadmoko and Edouard de Belizal. 'Source of the Great A.D. 1257 Mystery Eruption Unveiled, Samalas Volcano, Rinjani Volcanic Complex, Indonesia'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 110, no. 42, 2013, [https://www.jstor.org/stable/23750657?seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/23750657?seq=1#metadata_info_tab_contents).

Fraser, Nicholas C., and Hans-Dieter Sues. 'The Beginning of the "Age of Dinosaurs": A Brief Overview of Terrestrial Biotic Changes during the Triassic'. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, vol. 101, nos 3–4, Sept. 2010, pp. 189–200, <https://doi.org/10.1017/S1755691011020019>.

Gale General OneFile - Document - Air Pollution 'Causes More Deaths than Smoking'. <https://go.gale.com/ps/i.do?&id=GALE|A578128317&v=2.1&u=uniaber&p;it=r&p=ITOF&sw=w>.

Gale General OneFile - Document - First Eyewitness Accounts of Mystery Volcanic Eruption.

<https://go.gale.com/ps/i.do?&id=GALE|A383506238&v=2.1&u=uniaber&p;it=r&p=ITOF&sw=w>.

Gao, Chaochao, Yajuan Gao, et al. 'Climatic Aftermath of the 1815 Tambora Eruption in China'. *Journal of Meteorological Research*, vol. 31, no. 1, Feb. 2017, pp. 28–38, <https://doi.org/10.1007/s13351-017-6091-9>.

Gao, Chaochao, Francis Ludlow, et al. 'Reconciling Multiple Ice-Core Volcanic Histories: The Potential of Tree-Ring and Documentary Evidence, 670–730 CE'. *Quaternary International*, vol. 394, Feb. 2016, pp. 180–93, <https://doi.org/10.1016/j.quaint.2015.11.098>.

Garcia Garriga, Joan, et al. 'Neanderthal Survival in the North of the Iberian Peninsula? Reflections from a Catalan and Cantabrian Perspective'. *Journal of World Prehistory*, vol. 25, no. 2, July 2012, pp. 81–121, <https://doi.org/10.1007/s10963-012-9057-y>.

Gertisser, R. 'The Great 1815 Eruption of Tambora and Future Risks from Large-Scale Volcanism.(Report)'. *Geology Today*, vol. 31, no. 4, 2012, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_gale\\_ofa423720429&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,tambora&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_gale_ofa423720429&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,tambora&offset=0).

Giuseppe Mastrolorenzo, Pierpaolo Petrone, Lucia Pappalardo and Michael F. Sheridan. 'The Avellino 3780-Yr-B.P. Catastrophe as a Worst-Case Scenario for a Future Eruption at Vesuvius'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 103, no. 12, 2006, [https://www.jstor.org/stable/30048947?seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/30048947?seq=1#metadata_info_tab_contents).

GLIKSON, A. 'Asteroid/Comet Impact Clusters, Flood Basalts and Mass Extinctions: Significance of Isotopic Age Overlaps'. *Earth and Planetary Science Letters*, vol. 236, nos 3–4, Aug. 2005, pp. 933–37, <https://doi.org/10.1016/j.epsl.2005.05.007>.

Grasby, Stephen E., Hamed Sanei, et al. 'Catastrophic Dispersion of Coal Fly Ash into Oceans during the Latest Permian Extinction'. *Nature Geoscience*, vol. 4, no. 2, Feb. 2011, pp. 104–07, <https://doi.org/10.1038/ngeo1069>.

Grasby, Stephen E., Theodore R. Them, et al. 'Mercury as a Proxy for Volcanic Emissions in the Geologic Record'. *Earth-Science Reviews*, vol. 196, Sept. 2019, <https://doi.org/10.1016/j.earscirev.2019.102880>.

Gräslund, BoPrice, Neil. 'Twilight of the Gods? The Dust Veil Event of AD 536 in Critical Perspective'. vol. 86, no. 2, pp. 428–43, <https://search.proquest.com/docview/1021249071/9F226CEE94194FE3PQ/1?accountid=14783>.

Grattan, J. P., and F. B. Pyatt. 'Acid Damage to Vegetation Following the Laki Fissure Eruption in 1783 — an Historical Review'. *Science of The Total Environment*, vol. 151, no. 3, July 1994, pp. 241–47, [https://doi.org/10.1016/0048-9697\(94\)90473-1](https://doi.org/10.1016/0048-9697(94)90473-1).

Grattan, John. 'Aspects of Armageddon: An Exploration of the Role of Volcanic Eruptions in Human History and Civilization'. *Quaternary International*, vol. 151, no. 1, July 2006, pp.

10-18, <https://doi.org/10.1016/j.quaint.2006.01.019>.

———. *Living under the Shadow: Cultural Impacts of Volcanic Eruptions*. Left Coast Press, 2007,  
[http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=3735715500002418&institutionId=2418&customerId=2415](http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3735715500002418&institutionId=2418&customerId=2415). Electronic resource.

———. *Living under the Shadow: Cultural Impacts of Volcanic Eruptions*. Left Coast Press, 2007,  
[http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=3794712070002418&institutionId=2418&customerId=2415](http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3794712070002418&institutionId=2418&customerId=2415). Electronic resource.

———. 'Pollution and Paradigms: Lessons from Icelandic Volcanism for Continental Flood Basalt Studies'. *Lithos*, vol. 79, nos 3-4, Feb. 2005, pp. 343-53,  
<https://doi.org/10.1016/j.lithos.2004.09.006>.

Gualda, Guilherme A. R., and Stephen R. Sutton. 'The Year Leading to a Supereruption'. *PLOS ONE*, vol. 11, no. 7, July 2016, <https://doi.org/10.1371/journal.pone.0159200>.

Guillet, S. *Climate Response to the 1257 Samalas Eruption Revealed 1 by Proxy Records*. 2017, <https://www.repository.cam.ac.uk/handle/1810/262757>.

Gurioli, L., et al. 'Pyroclastic Flow Hazard Assessment at Somma-Vesuvius Based on the Geological Record'. *Bulletin of Volcanology*, vol. 72, no. 9, Nov. 2010, pp. 1021-38,  
<https://doi.org/10.1007/s00445-010-0379-2>.

H. Tuffen and R. Betts. 'Volcanism and Climate: Chicken and Egg (or Vice Versa)?' *Philosophical Transactions: Mathematical, Physical and Engineering Sciences*, vol. 368, no. 1919, 2010, pp. 2585-88, <http://www.jstor.org/stable/25753430>.

Haraldur Sigurdsson, Stanford Cashdollar and Stephen R. J. Sparks. 'The Eruption of Vesuvius in A. D. 79: Reconstruction from Historical and Volcanological Evidence'. *American Journal of Archaeology*, vol. 86, no. 1, 1982, pp. 39-51,  
<http://www.jstor.org/stable/504292>.

Harington, C. R. *The Year without a Summer?: World Climate in 1816*. Canadian Museum of Nature, 1992.

Harris, Bethan. 'The Potential Impact of Super-Volcanic Eruptions on the Earth's Atmosphere'. *Weather*, vol. 63, no. 8, Aug. 2008, pp. 221-25,  
<https://doi.org/10.1002/wea.263>.

Hartmann, William K., et al. 'Evidence for Recent Volcanism on Mars from Crater Counts'. *Nature*, vol. 397, no. 6720, Feb. 1999, pp. 586-89, <https://doi.org/10.1038/17545>.

Haslam, Michael, et al. 'The 74 Ka Toba Super-Eruption and Southern Indian Hominins: Archaeology, Lithic Technology and Environments at Jwalapuram Locality 3'. *Journal of Archaeological Science*, vol. 37, no. 12, Dec. 2010, pp. 3370-84,  
<https://doi.org/10.1016/j.jas.2010.07.034>.

Haslam, Michael, and Michael Petraglia. 'Comment on "Environmental Impact of the 73ka Toba Super-Eruption in South Asia" by M.A.J. Williams, S.H. Ambrose, S. van Der Kaars, C. Ruehlemann, U. Chattopadhyaya, J. Pal and P.R. Chauhan [Palaeogeography, Palaeoclimatology, Palaeoecology 284 (2009) 295–314]'. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 296, nos 1–2, Oct. 2010, pp. 199–203, <https://doi.org/10.1016/j.palaeo.2010.03.057>.

Haynes, Katharine, et al. 'The Issue of Trust and Its Influence on Risk Communication during a Volcanic Crisis'. *Bulletin of Volcanology*, vol. 70, no. 5, Mar. 2008, pp. 605–21, <https://doi.org/10.1007/s00445-007-0156-z>.

Hazard Information Management during the Autumn 2004 Reawakening of Mount St. Helens Volcano, Washington: Chapter 24 in *A Volcano Rekindled: The Renewed Eruption of Mount St. Helens, 2004-2006*. <http://pubs.er.usgs.gov/publication/pp175024>.

Head, James W., et al. 'Venus Volcanism: Classification of Volcanic Features and Structures, Associations, and Global Distribution from Magellan Data'. *Journal of Geophysical Research*, vol. 97, no. E8, 1992, <https://doi.org/10.1029/92JE01273>.

'Hints of a Volcanically Active Exomoon'. *Space Daily*, 2011, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_gale\\_ofg597833465&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,exo%20volcanism&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_gale_ofg597833465&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,exo%20volcanism&offset=0).

Historical Unrest at Large Calderas of the World. <http://pubs.er.usgs.gov/publication/b1855>.

Hizbaron, D. R., et al. 'Towards Measurable Resilience: Mapping the Vulnerability of at-Risk Community at Kelud Volcano, Indonesia'. *Applied Geography*, vol. 97, Aug. 2018, pp. 212–27, <https://doi.org/10.1016/j.apgeog.2018.06.012>.

Hodel, F., et al. 'Fossil Black Smoker Yields Oxygen Isotopic Composition of Neoproterozoic Seawater'. *Nature Communications*, vol. 9, no. 1, Dec. 2018, <https://doi.org/10.1038/s41467-018-03890-w>.

Hoffecker, John F., et al. 'From the Bay of Naples to the River Don: The Campanian Ignimbrite Eruption and the Middle to Upper Paleolithic Transition in Eastern Europe'. *Journal of Human Evolution*, vol. 55, no. 5, Nov. 2008, pp. 858–70, <https://doi.org/10.1016/j.jhevol.2008.08.018>.

Höskuldsson, Ármann, et al. 'The Millennium Eruption of Hekla in February 2000'. *Bulletin of Volcanology*, vol. 70, no. 2, Nov. 2007, pp. 169–82, <https://doi.org/10.1007/s00445-007-0128-3>.

Huang, Cy. 'Cooling of the South China Sea by the Toba Eruption and Correlation with Other Climate Proxies Similar to 71,000 Years Ago'. *Geophysical Research Letters*, vol. 28, no. 20, 2014, pp. 3915–18, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_wos000171588000023&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_wos000171588000023&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&)

query=any,contains,%22toba%20eruption%22&offset=0.

Hubbard, Zachary. 'Paintings in the Year Without a Summer'. *Philologia*, vol. 11, no. 1, Apr. 2019, <https://doi.org/10.21061/ph.173>.

J. Lelieveld. 'The Contribution of Outdoor Air Pollution Sources to Premature Mortality on a Global Scale'. *Nature*, vol. 525, no. 7569, pp. 367–85, <https://go.gale.com/ps/i.do?p=AONE&u=uniaber&id=GALE%7CA429410745&p;v=2.1&it=r>.

Jacoby, Gc. 'Laki Eruption of 1783, Tree Rings, and Disaster for Northwest Alaska Inuit'. *Quaternary Science Reviews*, vol. 18, no. 12, 1999, pp. 1365–71, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_wos000083568700004&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,%22laki%20eruption%22&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_wos000083568700004&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,%22laki%20eruption%22&offset=0).

Joanna Slawinska. Impact of Volcanic Eruptions on Decadal to Centennial Fluctuations of Arctic Sea Ice Extent during the Last Millennium and on Initiation of the Little Ice Age. Feb. 2018, <https://doi.org/JCLI-D-16-0498>.

João Zilhão. 'Neandertals and Moderns Mixed, and It Matters'. *Evolutionary Anthropology: Issues, News, and Reviews*, vol. 15, no. 5, 2006, pp. 183–95, <https://doi.org/10.1002/evan.20110>.

John Lowe, Nick Barton, Simon Blockley, Christopher Bronk Ramsey, Victoria L. Cullen, William Davies, Clive Gamble, Katharine Grant, Mark Hardiman, Rupert Housley, Christine S. Lane, Sharen Lee, Mark Lewis, Alison MacLeod, Martin Menzies, Wolfgang Müller, Mark Pollard, Catherine Price, Andrew P. Roberts, Eelco J. Rohling, Chris Satow, Victoria C. Smith, Chris B. Stringer, Emma L. Tomlinson, Dustin White, Paul Albert, Ilenia Arienzo, Graeme Barker, Dušan Borić, Antonio Carandente, Lucia Civetta, Catherine Ferrier, Jean-Luc Guadelli, Panagiotis Karkanas, Margarita Koumouzelis, Ulrich C. Müller, Giovanni Orsi, Jörg Pross, Mauro Rosi, Ljiljana Shalamanov-Korobar, Nikolay Sirakov and Polychronis C. Tzedakis. 'Volcanic Ash Layers Illuminate the Resilience of Neanderthals and Early Modern Humans to Natural Hazards'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 109, no. 34, 2012, [https://www.jstor.org/stable/41700966?seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/41700966?seq=1#metadata_info_tab_contents).

Jo  
,  
n  
Steingri  
,

msson. *Fires of the Earth: The Laki Eruption, 1783-1784*. Nordic Volcanological Institute, 1998.

———. *Fires of the Earth: The Laki Eruption, 1783-1784*. Nordic Volcanological Institute, 1998.

Jona Schellekens. 'Irish Famines and English Mortality in the Eighteenth Century'. *The Journal of Interdisciplinary History*, vol. 27, no. 1, pp. 29–43,

<https://go.gale.com/ps/i.do?&id=GALE|A18579104&v=2.1&u=uniaber&it=r&p=AONE&sw=w>.

Jonathan Stone. 'Risk Reduction through Community-Based Monitoring: The Vigías of Tungurahua, Ecuador'. *Journal of Applied Volcanology*, vol. 3, no. 1, 2014, <https://appliedvolc.biomedcentral.com/articles/10.1186/s13617-014-0011-9>.

Jones, Sacha Claire. 'Palaeoenvironmental Response to the ~74 Ka Toba Ash-Fall in the Jurreru and Middle Son Valleys in Southern and North-Central India'. *Quaternary Research*, vol. 73, no. 2, Mar. 2010, pp. 336–50, <https://doi.org/10.1016/j.yqres.2009.11.005>.

*Journal of Volcanology and Geothermal Research: Special Issue on Sinabung and Kelud*, vol. 382, 2019, <https://www.sciencedirect.com/journal/journal-of-volcanology-and-geothermal-research/vol/382/suppl/C>.

JUN SHEN, YONG LEI, THOMAS J. ALGEO, QINGLAI FENG, THOMAS SERVAIS, JIANXIN YU and LIAN ZHOU. 'VOLCANIC EFFECTS ON MICROPLANKTON DURING THE PERMIAN-TRIASSIC TRANSITION (SHANGSI AND XINMIN, SOUTH CHINA)'. *PALAIOS*, vol. 28, no. 7, 2013, [https://www.jstor.org/stable/43683731?seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/43683731?seq=1#metadata_info_tab_contents).

Kaltenegger, L., et al. 'DETECTING VOLCANISM ON EXTRASOLAR PLANETS'. *The Astronomical Journal*, vol. 140, no. 5, Nov. 2010, pp. 1370–80, <https://doi.org/10.1088/0004-6256/140/5/1370>.

Kandlbauer, J., et al. 'Climate and Carbon Cycle Response to the 1815 Tambora Volcanic Eruption'. *Journal of Geophysical Research: Atmospheres*, vol. 118, no. 22, Nov. 2013, p. 12,497–12,507, <https://doi.org/10.1002/2013JD019767>.

Kandlbauer, J., and R. S. J. Sparks. 'New Estimates of the 1815 Tambora Eruption Volume'. *Journal of Volcanology and Geothermal Research*, vol. 286, Oct. 2014, pp. 93–100, <https://doi.org/10.1016/j.jvolgeores.2014.08.020>.

Kathryn E Fitzsimmons. 'The Campanian Ignimbrite Eruption: New Data on Volcanic Ash Dispersal and Its Potential Impact on Human Evolution.' *PLoS ONE*, vol. 8, no. 6, 2013, <https://doi.org/10.1371/journal.pone.0062228>.

Keller, G., P. K. Bhowmick, et al. 'Deccan Volcanism Linked to the Cretaceous-Tertiary Boundary Mass Extinction: New Evidence from ONGC Wells in the Krishna-Godavari Basin'. *Journal of the Geological Society of India*, vol. 78, no. 5, Nov. 2011, pp. 399–428, <https://doi.org/10.1007/s12594-011-0107-3>.

Keller, G., A. Sahni, et al. 'Deccan Volcanism, the KT Mass Extinction and Dinosaurs'. *Journal of Biosciences*, vol. 34, no. 5, Nov. 2009, pp. 709–28, <https://doi.org/10.1007/s12038-009-0059-6>.

Kent, Adam. 'RESEARCH FOCUS: Tackling Supervolcanoes: Big and Fast?' *Geology*, vol. 43, no. 11, Nov. 2015, pp. 1039–40, <https://doi.org/10.1130/focus112015.1>.

Knappett, Carl Rivers, Ray Evans, Tim. The Thera Eruption and Minoan Palatial Collapse. *Journal of Archaeological Science*, vol. 85, no. 9, pp. 1008–23,

<https://search.proquest.com/docview/896272713/fulltextPDF/3F1AFA67A52F429DPQ/1?accountid=14783>.

Künzler, Matthias, et al. 'A Risk Analysis for Floods and Lahars: Case Study in the Cordillera Central of Colombia'. *Natural Hazards*, vol. 64, no. 1, Oct. 2012, pp. 767–96, <https://doi.org/10.1007/s11069-012-0271-9>.

Lanciki, Alyson, et al. 'Sulfur Isotope Evidence of Little or No Stratospheric Impact by the 1783 Laki Volcanic Eruption'. *Geophysical Research Letters*, vol. 39, no. 1, Jan. 2012, p. n/a-n/a, <https://doi.org/10.1029/2011GL050075>.

Lane, C. S., et al. 'Ash from the Toba Supereruption in Lake Malawi Shows No Volcanic Winter in East Africa at 75 Ka'. *Proceedings of the National Academy of Sciences*, vol. 110, no. 20, May 2013, pp. 8025–29, <https://doi.org/10.1073/pnas.1301474110>.

Lane, Christine S. 'Ash from the Toba Supereruption in Lake Malawi Shows No Volcanic Winter in East Africa at 75 Ka'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 110, no. 20, 2013, pp. 8025–29, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_faoagrisUS201600137554&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,%22supereruption%22&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_faoagrisUS201600137554&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,%22supereruption%22&offset=0).

Lawrence M. E. Percival, Micha Ruhl, Stephen P. Hesselbo, Hugh C. Jenkyns, Tamsin A. Mather and Jessica H. Whiteside. 'Mercury Evidence for Pulsed Volcanism during the End-Triassic Mass Extinction'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 114, no. 30, 2017, [https://www.jstor.org/stable/26486132?Search=yes&resultItemClick=true&searchUri=%2Ftopic%2Fmass-extinction-events%2F%3FsearchType%3DfacetSearch%26amp%3Bsd%3D%26amp%3Bed%3D%26amp%3Brefreqid%3Dexclior%253A4c7a3104ad8fb89411b0d3db9f073dbe%26amp%3Bpagemark%3DcGFnZU1hcms9NA%253D%253D%26amp%3Btopic%3Dmass-extinction-events%26amp%3Ballow\\_empty\\_query%3DTrue&ab\\_segments=0%2Fbasic\\_SYC-5055%2Fcontrol&seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/26486132?Search=yes&resultItemClick=true&searchUri=%2Ftopic%2Fmass-extinction-events%2F%3FsearchType%3DfacetSearch%26amp%3Bsd%3D%26amp%3Bed%3D%26amp%3Brefreqid%3Dexclior%253A4c7a3104ad8fb89411b0d3db9f073dbe%26amp%3Bpagemark%3DcGFnZU1hcms9NA%253D%253D%26amp%3Btopic%3Dmass-extinction-events%26amp%3Ballow_empty_query%3DTrue&ab_segments=0%2Fbasic_SYC-5055%2Fcontrol&seq=1#metadata_info_tab_contents).

Le Pennec, Jean-Luc, et al. 'Combining Historical and <sup>14</sup>C Data to Assess Pyroclastic Density Current Hazards in Baños City near Tungurahua Volcano (Ecuador)'. *Quaternary International*, vol. 394, Feb. 2016, pp. 98–114, <https://doi.org/10.1016/j.quaint.2015.06.052>.

Leicher, Niklas, et al. 'Central Mediterranean Explosive Volcanism and Tephrochronology during the Last 630 Ka Based on the Sediment Record from Lake Ohrid'. *Quaternary Science Reviews*, vol. 226, Dec. 2019, <https://doi.org/10.1016/j.quascirev.2019.106021>.

Leonard, Graham S., et al. 'Developing Effective Warning Systems: Ongoing Research at Ruapehu Volcano, New Zealand'. *Journal of Volcanology and Geothermal Research*, vol. 172, nos 3–4, May 2008, pp. 199–215, <https://doi.org/10.1016/j.jvolgeores.2007.12.008>.

Lessons from Recent Icelandic Eruptions.  
[https://www.chathamhouse.org/sites/default/files/public/Research/Energy,%20Environment%20and%20Development/r0112\\_highimpact.pdf](https://www.chathamhouse.org/sites/default/files/public/Research/Energy,%20Environment%20and%20Development/r0112_highimpact.pdf).

Lindström, Sofie, et al. 'Volcanic Mercury and Mutagenesis in Land Plants during the End-Triassic Mass Extinction'. *Science Advances*, vol. 5, no. 10, Oct. 2019, <https://doi.org/10.1126/sciadv.aaw4018>.

London's Volcanic Winter - Current Archaeology.  
<https://www.archaeology.co.uk/articles/features/londons-volcanic-winter.htm>.

Longo, B. M., et al. 'Cardiorespiratory Health Effects Associated with Sulphurous Volcanic Air Pollution'. *Public Health*, vol. 122, no. 8, Aug. 2008, pp. 809–20, <https://doi.org/10.1016/j.puhe.2007.09.017>.

Lopes, Rosaly M. C., et al. 'Beyond Earth: How Extra-Terrestrial Volcanism Has Changed Our Definition of a Volcano'. *What Is a Volcano?*, Special paper, Geological Society of America, pp. 11–30, [https://doi.org/10.1130/2010.2470\(02\)](https://doi.org/10.1130/2010.2470(02)).

Lorenz, Stephan. 'Exploring the Climate Response to the Tambora in 1815 and the 1809 Tropical Eruption'. *Quaternary International*, vols 279–280, Nov. 2012, <https://doi.org/10.1016/j.quaint.2012.08.770>.

Louys, Julien. 'Mammal Community Structure of Sundanese Fossil Assemblages from the Late Pleistocene, and a Discussion on the Ecological Effects of the Toba Eruption'. *Quaternary International*, vol. 258, 2014, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_gale\\_ofa285620234&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,%22toba%20eruption%22&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_gale_ofa285620234&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,%22toba%20eruption%22&offset=0).

M. Damaschke, R. Sulpizio, G. Zanchetta, B. Wagner, N. Nowaczyk, J. Rethemeyer. 'Tephrostratigraphic Studies on a Sediment Core from Lake Prespa in the Balkans'. *Climate of the Past*, vol. 9, no. 1, 2013, pp. 267–267, <https://go.gale.com/ps/i.do?id=GALE%7CA481436213&v=2.1&u=uniaber&it=r&p=AONE&sw=w>.

Maltman, Chris, et al. 'A Diverse Community of Metal(Loid) Oxide Respiring Bacteria Is Associated with Tube Worms in the Vicinity of the Juan de Fuca Ridge Black Smoker Field'. *PLOS ONE*, vol. 11, no. 2, Feb. 2016, <https://doi.org/10.1371/journal.pone.0149812>.

Mannella, G., et al. 'Palaeoenvironmental and Palaeohydrological Variability of Mountain Areas in the Central Mediterranean Region: A 190 Ka-Long Chronicle from the Independently Dated Fucino Palaeolake Record (Central Italy)'. *Quaternary Science Reviews*, vol. 210, Apr. 2019, pp. 190–210, <https://doi.org/10.1016/j.quascirev.2019.02.032>.

Manning, Joseph G., et al. 'Volcanic Suppression of Nile Summer Flooding Triggers Revolt and Constrains Interstate Conflict in Ancient Egypt'. *Nature Communications*, vol. 8, no. 1, Dec. 2017, <https://doi.org/10.1038/s41467-017-00957-y>.

———. 'Volcanic Suppression of Nile Summer Flooding Triggers Revolt and Constrains Interstate Conflict in Ancient Egypt'. *Nature Communications*, vol. 8, no. 1, Dec. 2017, <https://doi.org/10.1038/s41467-017-00957-y>.

Marshall, Lauren. 'Multi-Model Comparison of the Volcanic Sulfate Deposition from the 1815 Eruption of Mt. Tambora'. *Atmospheric Chemistry and Physics*, vol. 18, no. 3, pp. 2307–28, <https://doi.org/https://doi.org/10.5194/acp-18-2307-2018>.

Marti

, Joan, and Gerald Ernst. *Volcanoes and the Environment*. Cambridge University Press, 2005,  
<http://www.vlebooks.com/vleweb/product/openreader?id=AberystUni&isbn=9780511331343>. Electronic resource.

Mastin, Larry G., et al. 'Modeling Ash Fall Distribution from a Yellowstone Supereruption'. *Geochemistry, Geophysics, Geosystems*, vol. 15, no. 8, Aug. 2014, pp. 3459–75, <https://doi.org/10.1002/2014GC005469>.

Mastrolorenzo, G., and L. Pappalardo. 'Hazard Assessment of Explosive Volcanism at Somma-Vesuvius'. *Journal of Geophysical Research*, vol. 115, no. B12, Dec. 2010, <https://doi.org/10.1029/2009JB006871>.

Mastrolorenzo, Giuseppe, et al. 'The 472 AD Pollena Eruption of Somma-Vesuvius (Italy) and Its Environmental Impact at the End of the Roman Empire'. *Journal of Volcanology and Geothermal Research*, vol. 113, nos 1–2, Mar. 2002, pp. 19–36, [https://doi.org/10.1016/S0377-0273\(01\)00248-7](https://doi.org/10.1016/S0377-0273(01)00248-7).

Mateo, Paula, et al. 'Early to Late Maastrichtian Environmental Changes in the Indian Ocean Compared with Tethys and South Atlantic'. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 478, July 2017, pp. 121–38, <https://doi.org/10.1016/j.palaeo.2017.01.027>.

Matthew Toohey. 'Volcanic Stratospheric Sulfur Injections and Aerosol Optical Depth from 500 BCE to 1900 CE'. *Earth System Science Data*, vol. 9, no. 2, pp. 809–809, <https://go.gale.com/ps/i.do?&id=GALE|A513556448&v=2.1&u=uniaber&p;it=r&p=AONE&sw=w>.

McConnell, Joseph R., et al. 'Synchronous Volcanic Eruptions and Abrupt Climate Change ~17.7 Ka Plausibly Linked by Stratospheric Ozone Depletion'. *Proceedings of the National Academy of Sciences*, vol. 114, no. 38, Sept. 2017, pp. 10035–40, <https://doi.org/10.1073/pnas.1705595114>.

McCoy, Floyd, and Grant Heiken. *Volcanic Hazards and Disasters in Human Antiquity*. Geological Society of America, 2000.

McGuire, Bill. *The Archaeology of Geological Catastrophes*. Geological Society, 2000.

Meehl, Gerald A., et al. 'Effects of the Mount Pinatubo Eruption on Decadal Climate Prediction Skill of Pacific Sea Surface Temperatures'. *Geophysical Research Letters*, vol. 42, no. 24, Dec. 2015, p. 10,840–10,846, <https://doi.org/10.1002/2015GL066608>.

Mellars, Paul. 'Neanderthals and the Modern Human Colonization of Europe'. *Nature*, vol. 432, no. 7016, Nov. 2004, pp. 461–65, <https://doi.org/10.1038/nature03103>.

———. 'The Neanderthal Problem Continued'. *Current Anthropology*, vol. 40, no. 3, June 1999, pp. 341–64, <https://doi.org/10.1086/200024>.

Mellars, Paul, and Jennifer C. French. 'Tenfold Population Increase in Western Europe at the Neandertal-to-Modern Human Transition'. *Science*, vol. 333, no. 6042, July 2011, pp. 623–27, <https://doi.org/10.1126/science.1206930>.

Michael Staubwasser. 'Impact of Climate Change on the Transition of Neanderthals to Modern Humans in Europe'. *Proceedings of the National Academy of Sciences*, vol. 115, no. 37, Sept. 2018, pp. 9116–21, <https://doi.org/10.1073/pnas.1808647115>.

Milia, Alfonsa, et al. 'The Dark Nature of Somma-Vesuvius Volcano: Evidence from the ~3.5ka B.P. Avellino Eruption'. *Quaternary International*, vols 173–174, Oct. 2007, pp. 57–66, <https://doi.org/10.1016/j.quaint.2007.03.001>.

Miller, C. F., and D. A. Wark. 'SUPERVOLCANOES AND THEIR EXPLOSIVE SUPERERUPTIONS'. *Elements*, vol. 4, no. 1, Feb. 2008, pp. 11–15, <https://doi.org/10.2113/GSELEMENTS.4.1.11>.

Miller, Gifford H., et al. 'Abrupt Onset of the Little Ice Age Triggered by Volcanism and Sustained by Sea-Ice/Ocean Feedbacks'. *Geophysical Research Letters*, vol. 39, no. 2, Jan. 2012, p. n/a-n/a, <https://doi.org/10.1029/2011GL050168>.

Monaghan, J. J., et al. 'Volcanoes, Tsunamis and the Demise of the Minoans'. *Physica D: Nonlinear Phenomena*, vol. 77, nos 1–3, Oct. 1994, pp. 217–28, [https://doi.org/10.1016/0167-2789\(94\)90135-X](https://doi.org/10.1016/0167-2789(94)90135-X).

Morley, Mike W., and Jamie C. Woodward. 'The Campanian Ignimbrite (Y5) Tephra at Crvena Stijena Rockshelter, Montenegro'. *Quaternary Research*, vol. 75, no. 3, May 2011, pp. 683–96, <https://doi.org/10.1016/j.yqres.2011.02.005>.

Muhammad Mubashar Dogar. 'Ocean Sensitivity to Periodic and Constant Volcanism'. *Scientific Reports*, vol. 10, no. 1, 2020, pp. 1–15, <https://doi.org/10.1038/s41598-020-63984-ae3f1>.

Multiple Impacts across the Cretaceous–Tertiary Boundary.  
[http://geoweb.princeton.edu/research/Paleontology/Keller\\_et\\_al.\\_ESR\\_03.pdf](http://geoweb.princeton.edu/research/Paleontology/Keller_et_al._ESR_03.pdf).

Mystery Eruption Traced to Dangerous Italian Volcano : Research Highlights.  
<https://www.nature.com/articles/d41586-019-01462-6>.

Negi, J. G., et al. 'A Possible K-T Boundary Bolide Impact Site Offshore near Bombay and Triggering of Rapid Deccan Volcanism'. *Physics of the Earth and Planetary Interiors*, vol. 76, nos 3–4, Mar. 1993, pp. 189–97, [https://doi.org/10.1016/0031-9201\(93\)90011-W](https://doi.org/10.1016/0031-9201(93)90011-W).

Newhall, C., and R. Hoblitt. 'Constructing Event Trees for Volcanic Crises'. *Bulletin of Volcanology*, vol. 64, no. 1, Mar. 2002, pp. 3–20, <https://doi.org/10.1007/s004450100173>.  
Nicholas J. G. Pearce. 'Origin of Ash in the Central Indian Ocean Basin and Its Implication for the Volume Estimate of the 74,000 Year BP Youngest Toba Eruption'. *Current Science*, pp. 889–93,  
<https://pure.aber.ac.uk/portal/en/publications/origin-of-ash-in-the-central-indian-ocean-basi>

n-and-its-implication-for-the-volume-estimate-of-the-74000-year-bp-youngest-toba-eruption(9a911aa8-2ae3-4edd-8c2f-bae37585268f).html.

Non-Climatic Factors and the Environmental Impact of Volcanic Volatiles: Implications of the Laki Fissure Eruption of AD 1783.

[https://www.researchgate.net/publication/249868764\\_Non-climatic\\_factors\\_and\\_the\\_environmental\\_impact\\_of\\_volcanic\\_volatiles\\_Implications\\_of\\_the\\_Laki\\_fissure\\_eruption\\_of\\_AD\\_1783](https://www.researchgate.net/publication/249868764_Non-climatic_factors_and_the_environmental_impact_of_volcanic_volatiles_Implications_of_the_Laki_fissure_eruption_of_AD_1783).

Oetelaar, Gerald Anthony, and Alwynne B. Beaudoin. 'Evidence of Cultural Responses to the Impact of the Mazama Ash Fall from Deeply Stratified Archaeological Sites in Southern Alberta, Canada'. *Quaternary International*, vol. 394, Feb. 2016, pp. 17–36, <https://doi.org/10.1016/j.quaint.2014.08.015>.

Olsson, J., et al. 'Rapid Release of Metal Salts and Nutrients from the 2011 Grímsvötn, Iceland Volcanic Ash'. *Geochimica et Cosmochimica Acta*, vol. 123, Dec. 2013, pp. 134–49, <https://doi.org/10.1016/j.gca.2013.09.009>.

Oman, Luke, et al. 'High-Latitude Eruptions Cast Shadow over the African Monsoon and the Flow of the Nile'. *Geophysical Research Letters*, vol. 33, no. 18, Sept. 2006, p. n/a-n/a, <https://doi.org/10.1029/2006GL027665>.

Oppenheimer, Clive. 'Climatic, Environmental and Human Consequences of the Largest Known Historic Eruption: Tambora Volcano (Indonesia) 1815'. *Progress in Physical Geography*, vol. 27, no. 2, June 2003, pp. 230–59, <https://doi.org/10.1191/0309133303pp379ra>.

———. *Eruptions That Shook the World*. Cambridge University Press, 2011, <http://www.vlebooks.com/vleweb/product/openreader?id=AberystUni&isbn=9781139111751>. Electronic resource.

———. 'Limited Global Change Due to the Largest Known Quaternary Eruption, Toba [~74kyr BP?]' *Quaternary Science Reviews*, vol. 21, nos 14–15, Aug. 2002, pp. 1593–609, [https://doi.org/10.1016/S0277-3791\(01\)00154-8](https://doi.org/10.1016/S0277-3791(01)00154-8).

Oppenheimer, Stephen. 'A Single Southern Exit of Modern Humans from Africa: Before or after Toba?' *Quaternary International*, vol. 258, May 2012, pp. 88–99, <https://doi.org/10.1016/j.quaint.2011.07.049>.

Pallister, John, et al. 'Monitoring, Forecasting Collapse Events, and Mapping Pyroclastic Deposits at Sinabung Volcano with Satellite Imagery'. *Journal of Volcanology and Geothermal Research*, vol. 382, Sept. 2019, pp. 149–63, <https://doi.org/10.1016/j.jvolgeores.2018.05.012>.

Panagiotakopulu, Eva, et al. 'Ancient Pests: The Season of the Santorini Minoan Volcanic Eruption and a Date from Insect Chitin'. *Naturwissenschaften*, vol. 100, no. 7, July 2013, pp. 683–89, <https://doi.org/10.1007/s00114-013-1068-8>.

Paolo Cherubini. 'The Olive-Branch Dating of the Santorini Eruption'. *Antiquity*, vol. 88, no. 339, pp. 267–74, [https://go.gale.com/ps/retrieve.do?tabID=T002&resultListType=RESULT\\_LIST](https://go.gale.com/ps/retrieve.do?tabID=T002&resultListType=RESULT_LIST)&se

archResultsType=SingleTab&searchType=AdvancedSearchForm&currentPosition=1&docId=GALE%7CA363102251&docType=Report&sort=RELEVANCE&contentSegment=ZONE-MOD1&prodId=AONE&contentSet=GALE%7CA363102251&searchId=R1&userGroupName=uniaber&inPS=true.

Papale, Paolo. 'Global Time-Size Distribution of Volcanic Eruptions on Earth'. *Scientific Reports*, vol. 8, no. 1, Dec. 2018, <https://doi.org/10.1038/s41598-018-25286-y>.

Papale, Paolo, and Warner Marzocchi. 'Volcanic Threats to Global Society'. *Science*, vol. 363, no. 6433, Mar. 2019, pp. 1275–76.

Papale, Paolo, and John F. Shroder, editors. *Volcanic Hazards, Risks and Disasters*. Elsevier, 2014,  
<http://www.vlebooks.com/vleweb/product/openreader?id=AberystUni&isbn=9780123964762>. Electronic resource.

Parnell, John. 'Plate Tectonics and the Detection of Land-Based Biosignatures on Mars and Extrasolar Planets'. *International Journal of Astrobiology*, vol. 4, nos 3–4, Oct. 2005, pp. 175–86, <https://doi.org/10.1017/S1473550405002715>.

Paul E. Olsen. 'Giant Lava Flows, Mass Extinctions, and Mantle Plumes'. *Science*, vol. 284, no. 5414, pp. 604–05,  
<https://go.gale.com/ps/i.do?&id=GALE|A54552300&v=2.1&u=uniaber&it=r&p=AONE&sw=w>.

Paul Mellars. 'The Earliest Modern Humans in Europe: The Reanalysis of Findings from Two Archaeological Sites Calls for a Reassessment of When Modern Humans Settled in Europe, and of Neanderthal Cultural Achievements'. *Nature*, vol. 479, no. 7374, pp. 483–86,  
<https://go.gale.com/ps/i.do?&id=GALE|A274027588&v=2.1&u=uniaber&it=r&p=AONE&sw=w>.

Paul Mellars, Kevin C. Gori, Martin Carr, Pedro A. Soares and Martin B. Richards. 'Genetic and Archaeological Perspectives on the Initial Modern Human Colonization of Southern Asia'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 110, no. 26, 2013,  
[https://www.jstor.org/stable/42706546?seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/42706546?seq=1#metadata_info_tab_contents).

Pearson, Charlotte L., et al. 'Annual Radiocarbon Record Indicates 16th Century BCE Date for the Thera Eruption'. *Science Advances*, vol. 4, no. 8, Aug. 2018,  
<https://doi.org/10.1126/sciadv.aar8241>.

Pendea, I. Florin, et al. 'Prehistoric Human Responses to Volcanic Tephra Fall Events in the Ust-Kamchatsk Region, Kamchatka Peninsula (Kamchatsky Krai, Russian Federation) during the Middle to Late Holocene (6000–500 Cal BP)'. *Quaternary International*, vol. 394, Feb. 2016, pp. 51–68, <https://doi.org/10.1016/j.quaint.2015.07.033>.

Percival, L.M.E., et al. 'Globally Enhanced Mercury Deposition during the End-Pliensbachian Extinction and Toarcian OAE: A Link to the Karoo–Ferrar Large Igneous Province'. *Earth and Planetary Science Letters*, vol. 428, Oct. 2015, pp. 267–80,  
<https://doi.org/10.1016/j.epsl.2015.06.064>.

Percival, Lawrence M. E., et al. 'Mercury Evidence for Pulsed Volcanism during the End-Triassic Mass Extinction'. *Proceedings of the National Academy of Sciences*, vol. 114, no. 30, July 2017, pp. 7929–34, <https://doi.org/10.1073/pnas.1705378114>.

Periáñez, R., and J. M. Abril. 'Modelling Tsunamis in the Eastern Mediterranean Sea. Application to the Minoan Santorini Tsunami Sequence as a Potential Scenario for the Biblical Exodus'. *Journal of Marine Systems*, vol. 139, Nov. 2014, pp. 91–102, <https://doi.org/10.1016/j.jmarsys.2014.05.016>.

Petraglia, Michael D. 'Toba Volcanic Super-Eruption, Environmental Change, and Hominin Occupation History in India over the Last 140,000 Years'. *Quaternary International*, vol. 258, 2014, pp. 119–34, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_faoagrisUS201500210312&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,%22toba%20eruption%22&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_faoagrisUS201500210312&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,%22toba%20eruption%22&offset=0).

Petraglia, Michael, et al. 'Middle Paleolithic Assemblages from the Indian Subcontinent Before and After the Toba Super-Eruption'. *Science*, vol. 317, no. 5834, July 2007, pp. 114–16, <https://doi.org/10.1126/science.1141564>.

Petraglia, Michael D., et al. 'The Toba Volcanic Super-Eruption, Environmental Change, and Hominin Occupation History in India over the Last 140,000 Years'. *Quaternary International*, vol. 258, May 2012, pp. 119–34, <https://doi.org/10.1016/j.quaint.2011.07.042>.

Pfister, C., et al. 'Winter Air Temperature Variations in Western Europe during the Early and High Middle Ages (AD 750–1300)'. *The Holocene*, vol. 8, no. 5, Sept. 1998, pp. 535–52, <https://doi.org/10.1191/095968398675289943>.

Pistolesi, Marco, Raffaello Cioni, Mauro Rosi, Katharine V. Cashman, et al. 'Evidence for Lahar-Triggering Mechanisms in Complex Stratigraphic Sequences: The Post-Twelfth Century Eruptive Activity of Cotopaxi Volcano, Ecuador'. *Bulletin of Volcanology*, vol. 75, no. 3, Mar. 2013, <https://doi.org/10.1007/s00445-013-0698-1>.

Pistolesi, Marco, Raffaello Cioni, Mauro Rosi, and Eduardo Aguilera. 'Lahar Hazard Assessment in the Southern Drainage System of Cotopaxi Volcano, Ecuador: Results from Multiscale Lahar Simulations'. *Geomorphology*, vol. 207, Feb. 2014, pp. 51–63, <https://doi.org/10.1016/j.geomorph.2013.10.026>.

———. 'Lahar Hazard Assessment in the Southern Drainage System of Cotopaxi Volcano, Ecuador: Results from Multiscale Lahar Simulations'. *Geomorphology*, vol. 207, Feb. 2014, pp. 51–63, <https://doi.org/10.1016/j.geomorph.2013.10.026>.

Pollution and Paradigms: Lessons from Icelandic Volcanism for - Pollution and Paradigms1.Pdf.  
<http://cadair.aber.ac.uk/dspace/bitstream/handle/2160/234/Pollution%20and%20paradigms1.pdf?sequence=1>.

Ponomarenko, A. G. 'Insects during the Time around the Permian—Triassic Crisis'. *Paleontological Journal*, vol. 50, no. 2, Mar. 2016, pp. 174–86, <https://doi.org/10.1134/S0031030116020052>.

Pyle, David M., et al. 'Wide Dispersal and Deposition of Distal Tephra during the Pleistocene "Campanian Ignimbrite/Y5" Eruption, Italy'. *Quaternary Science Reviews*, vol. 25, nos 21–22, Nov. 2006, pp. 2713–28, <https://doi.org/10.1016/j.quascirev.2006.06.008>. *Quaternary International*. vol. 258, 2012, <https://www.sciencedirect.com/journal/quaternary-international/vol/258>.

Rampino, M. 'Supereruptions as a Threat to Civilizations on Earth-like Planets'. *Icarus*, vol. 156, no. 2, Apr. 2002, pp. 562–69, <https://doi.org/10.1006/icar.2001.6808>.

Rampino, M R. 'Bottleneck in Human Evolution and the Toba Eruption'. *Science* (New York, vol. 262, no. 5142, 2014, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_medline8266085&context=PC&vid=44WHELF\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,%22toba%20eruption%22&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_medline8266085&context=PC&vid=44WHELF_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,%22toba%20eruption%22&offset=0).

Rampino, M. R., et al. 'Volcanic Winters'. *Annual Review of Earth and Planetary Sciences*, vol. 16, no. 1, May 1988, pp. 73–99, <https://doi.org/10.1146/annurev.ea.16.050188.000445>.

Rampino, Michael R. 'Relationship between Impact-Crater Size and Severity of Related Extinction Episodes'. *Earth-Science Reviews*, vol. 201, Feb. 2020, <https://doi.org/10.1016/j.earscirev.2019.102990>.

Rampino, Michael R., and Stanley H. Ambrose. 'Volcanic Winter in the Garden of Eden: The Toba Supereruption and the Late Pleistocene Human Population Crash'. *Special Paper 345: Volcanic Hazards and Disasters in Human Antiquity*, vol. 345, Geological Society of America, 2000, pp. 71–82, <https://doi.org/10.1130/0-8137-2345-0.71>.

Rampino, Michael R., and Ken Caldeira. 'Comparison of the Ages of Large-Body Impacts, Flood-Basalt Eruptions, Ocean-Anoxic Events and Extinctions over the Last 260 Million Years: A Statistical Study'. *International Journal of Earth Sciences*, vol. 107, no. 2, Mar. 2018, pp. 601–06, <https://doi.org/10.1007/s00531-017-1513-6>.

Rampino, Michael R., and Stephen Self. 'Bottleneck in Human Evolution and the Toba Eruption'. *Science*, vol. 262, no. 5142, Dec. 1993, pp. 1955–1955, <https://doi.org/10.1126/science.8266085>.

Recent Structural Evolution of the Cumbre Vieja Volcano, La Palma, Canary Islands: Volcanic Rift Zone Reconfiguration as a Precursor to Volcano Flank Instability. <http://www.geo.arizona.edu/~andyf/LaPalma/Rift%20Zone.pdf>.

Reigstad, Laila Johanne, et al. 'Sulfur-Oxidizing Chemolithotrophic Proteobacteria Dominate the Microbiota in High Arctic Thermal Springs on Svalbard'. *Astrobiology*, vol. 11, no. 7, Sept. 2011, pp. 665–78, <https://doi.org/10.1089/ast.2010.0551>.

Riede, Felix. 'Changes in Mid- and Far-Field Human Landscape Use Following the Laacher See Eruption (c. 13,000 BP)'. *Quaternary International*, vol. 394, Feb. 2016, pp. 37–50, <https://doi.org/10.1016/j.quaint.2014.07.008>.

———. 'Doing Palaeo-Social Volcanology: Developing a Framework for Systematically

Investigating the Impacts of Past Volcanic Eruptions on Human Societies Using Archaeological Datasets'. *Quaternary International*, vol. 499, Jan. 2019, pp. 266–77, <https://doi.org/10.1016/j.quaint.2018.01.027>.

———. 'Towards a Science of Past Disasters'. *Natural Hazards*, vol. 71, no. 1, Mar. 2014, pp. 335–62, <https://doi.org/10.1007/s11069-013-0913-6>.

———. 'Volcanic Activity and Human Society'. *Quaternary International*, vol. 394, Feb. 2016, pp. 1–5, <https://doi.org/10.1016/j.quaint.2015.08.090>.

Roberts, R. G., et al. 'Toba Supereruption: Age and Impact on East African Ecosystems'. *Proceedings of the National Academy of Sciences*, vol. 110, no. 33, Aug. 2013, pp. E3047–E3047, <https://doi.org/10.1073/pnas.1308550110>.

Robock, Alan. 'Climatic Impact of Volcanic Emissions'. *The State of the Planet: Frontiers and Challenges in Geophysics*, American Geophysical Union, 2004, pp. 125–34, <https://doi.org/10.1029/150GM11>.

———. 'Did the Toba Volcanic Eruption of ~74 Ka B.P. Produce Widespread Glaciation?' *Journal of Geophysical Research*, vol. 114, no. D10, May 2009, <https://doi.org/10.1029/2008JD011652>.

———. 'The Climatic Aftermath'. *Science*, vol. 295, no. 5558, Feb. 2002, pp. 1242–44, <https://doi.org/10.1126/science.1069903>.

———. 'Volcanic Eruptions and Climate'. *Reviews of Geophysics*, vol. 38, no. 2, May 2000, pp. 191–219, <https://doi.org/10.1029/1998RG000054>.

Rosi, Mauro, and Jay Hyams. *Volcanoes*. Firefly Books, 2003.

Rössler, Ole, and Stefan Brönnimann. 'The Effect of the Tambora Eruption on Swiss Flood Generation in 1816/1817'. *Science of The Total Environment*, vol. 627, June 2018, pp. 1218–27, <https://doi.org/10.1016/j.scitotenv.2018.01.254>.

Rothery, David A. *Volcanoes, Earthquakes and Tsunamis*. [New] ed, Teach Yourself, 2010, <http://www.vlebooks.com/vleweb/product/openreader?id=AberystUni&isbn=9781444127416>. Electronic resource.

Ryan C. Bay, Nathan Bramall and P. Buford Price. 'Bipolar Correlation of Volcanism with Millennial Climate Change'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 101, no. 17, 2004, [https://www.jstor.org/stable/3372084?seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/3372084?seq=1#metadata_info_tab_contents).

Sadler, J. P., and J. P. Grattan. 'Volcanoes as Agents of Past Environmental Change'. *Global and Planetary Change*, vol. 21, nos 1–3, July 1999, pp. 181–96, [https://doi.org/10.1016/S0921-8181\(99\)00014-4](https://doi.org/10.1016/S0921-8181(99)00014-4).

Sandri, Laura, et al. 'Long-Term Multi-Hazard Assessment for El Misti Volcano (Peru)'. *Bulletin of Volcanology*, vol. 76, no. 2, Feb. 2014, <https://doi.org/10.1007/s00445-013-0771-9>.

Saunders, A. D. 'Large Igneous Provinces: Origin and Environmental Consequences'. *Elements*, vol. 1, no. 5, Dec. 2005, pp. 259–63, <https://doi.org/10.2113/gselements.1.5.259>.

Sayyed, M. R. G., and S. M. Hundekari. 'Preliminary Comparison of Ancient Bole Beds and Modern Soils Developed upon the Deccan Volcanic Basalts around Pune (India): Potential for Palaeoenvironmental Reconstruction'. *Quaternary International*, vols 156–157, Nov. 2006, pp. 189–99, <https://doi.org/10.1016/j.quaint.2006.05.030>.

Scarth, Alwyn. *Volcanoes: An Introduction*. U C L Press, 1994.

———. *Vulcan's Fury: Man against the Volcano*. Yale University Press, 1999.

Schulte, P., et al. 'The Chicxulub Asteroid Impact and Mass Extinction at the Cretaceous-Paleogene Boundary'. *Science*, vol. 327, no. 5970, Mar. 2010, pp. 1214–18, <https://doi.org/10.1126/science.1177265>.

Senatore, Maria Rosaria, et al. 'Pompeii Damaged by Volcaniclastic Debris Flows Triggered Centuries Prior to the 79 A.D. Vesuvius Eruption'. *Geoarchaeology*, vol. 29, no. 1, Jan. 2014, pp. 1–15, <https://doi.org/10.1002/gea.21458>.

Shaw, Rajib, et al. *Climate Change Adaptation and Disaster Risk Reduction: An Asian Perspective*, Vol. 5. 1st ed, v. 5, Emerald Group Pub. Ltd, 2010, [http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=4047952180002418&institutionId=2418&customerId=2415](http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=4047952180002418&institutionId=2418&customerId=2415). Electronic resource.

Sigl, M., et al. 'Timing and Climate Forcing of Volcanic Eruptions for the Past 2,500 Years'. *Nature*, vol. 523, no. 7562, July 2015, pp. 543–49, <https://doi.org/10.1038/nature14565>.

Sigurdsson, Haraldur. *Encyclopedia of Volcanoes*. Academic Press, 2000.

Simkin, Tom, et al. 'Volcano Fatalities--Lessons from the Historical Record'. *Science*, vol. 291, no. 5502, Jan. 2001, pp. 255–255, <https://doi.org/10.1126/science.291.5502.255>.

Sinabung Volcano: How Culture Shapes Community Resilience. <https://doi.org/10.1108/DPM-05-2018-0160>.

Six Medical Papyri Describe the Effect of Santorini's Volcanic Ash. <https://reader.elsevier.com/reader/sd/pii/S0306987706000491?token=13233F3D8053237EAA0B5D4307D4EF02C39F56EAC3CF666212510A196E0D3ED2628EFCCD16403A858298DD537A22B50>.

Smith, Eugene I. Humans Thrived in South Africa through the Toba Eruption about 74,000 Years Ago. 2018, <https://doi.org/10.17863/CAM.23506>.

Smith, Eugene I., et al. 'Humans Thrived in South Africa through the Toba Eruption about 74,000 Years Ago'. *Nature*, vol. 555, no. 7697, Mar. 2018, pp. 511–15, <https://doi.org/10.1038/nature25967>.

Sobolev, Stephan V., et al. 'Linking Mantle Plumes, Large Igneous Provinces and

Environmental Catastrophes'. *Nature*, vol. 477, no. 7364, Sept. 2011, pp. 312–16, <https://doi.org/10.1038/nature10385>.

———. 'Linking Mantle Plumes, Large Igneous Provinces and Environmental Catastrophes'. *Nature*, vol. 477, no. 7364, Sept. 2011, pp. 312–16, <https://doi.org/10.1038/nature10385>.  
Solikhin, Akhmad, et al. 'High-Spatial-Resolution Imagery Helps Map Deposits of the Large (VEI 4) 2010 Merapi Volcano Eruption and Their Impact'. *Bulletin of Volcanology*, vol. 77, no. 3, Mar. 2015, <https://doi.org/10.1007/s00445-015-0908-0>.

Sonnek, Karin Mossberg, et al. 'The Impacts of a Laki-like Eruption on the Present Swedish Society'. *Natural Hazards*, vol. 88, no. 3, Sept. 2017, pp. 1565–90, <https://doi.org/10.1007/s11069-017-2933-0>.

Sparks, R. S. J., and W. P. Aspinall. 'Volcanic Activity: Frontiers and Challenges in Forecasting, Prediction and Risk Assessment'. *The State of the Planet: Frontiers and Challenges in Geophysics*, Geophysical monograph, American Geophysical Union, 2004, pp. 359–73, <https://doi.org/10.1029/150GM28>.

Steven M. Holland. 'Ecological Disruption Precedes Mass Extinction'. *Proceedings of the National Academy of Sciences of the United States of America*, vol. 113, no. 30, 2016, [https://www.jstor.org/stable/26470935?Search=yes&resultItemClick=true&searchUri=%2Ftopic%2Fmass-extinction-events%2F%3Frefreqid%3Dexcelsior%253A4c7a3104ad8fb89411b0d3db9f073dbe&ab\\_segments=0%2Fbasic\\_SYC-5055%2Fcontrol&seq=1#metadata\\_info\\_tab\\_contents](https://www.jstor.org/stable/26470935?Search=yes&resultItemClick=true&searchUri=%2Ftopic%2Fmass-extinction-events%2F%3Frefreqid%3Dexcelsior%253A4c7a3104ad8fb89411b0d3db9f073dbe&ab_segments=0%2Fbasic_SYC-5055%2Fcontrol&seq=1#metadata_info_tab_contents).

Stone, Richard. 'Back from the Dead'. *Science*, vol. 346, no. 6215, Dec. 2014, pp. 1281–83, <https://doi.org/10.1126/science.346.6215.1281>.

Stone, Richard. 'Iceland's Doomsday Scenario? The More Researchers Learn about the Unheralded Laki Eruption of 1783, the More They See a Need to Prepare for a Reprise That Could Include Fluoride Poisoning and Widespread Air Pollution.(News Focus)'. *Science*, vol. 306, no. 5700, 2010, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_gale\\_ofa126164075&context=PC&vid=44WHELP\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,%22laki%20eruption%22&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_gale_ofa126164075&context=PC&vid=44WHELP_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,%22laki%20eruption%22&offset=0).

Stothers, Richard B. 'The Great Tambora Eruption in 1815 and Its Aftermath'. *Science*, vol. 224, 2012, [https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_gale\\_ofa3309276&context=PC&vid=44WHELP\\_ABW\\_VU1&lang=en\\_US&search\\_scope=Blended&adaptor=primo\\_central\\_multiple\\_fe&tab=blended&query=any,contains,tambora&offset=0](https://whel-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_gale_ofa3309276&context=PC&vid=44WHELP_ABW_VU1&lang=en_US&search_scope=Blended&adaptor=primo_central_multiple_fe&tab=blended&query=any,contains,tambora&offset=0).

Stratospheric Ozone Destruction by the Bronze-Age Minoan Eruption (Santorini Volcano, Greece) - Srep12243.Pdf. <https://www.nature.com/articles/srep12243.pdf>.

Strom, Robert G., et al. 'The Global Resurfacing of Venus'. *Journal of Geophysical Research*, vol. 99, no. E5, 1994, <https://doi.org/10.1029/94JE00388>.

Sturt W. Manning. 'Dating the Thera (Santorini) Eruption: Archaeological and Scientific

Evidence Supporting a High Chronology'. *Antiquity*, vol. 88, no. 342, pp. 1164–80, <https://go.gale.com/ps/i.do?&id=GALE|A398627713&v=2.1&u=uniaber&p;it=r&p=AONE&sw=w>.

Sun, Chunqing, et al. 'Ash from Changbaishan Millennium Eruption Recorded in Greenland Ice: Implications for Determining the Eruption's Timing and Impact'. *Geophysical Research Letters*, vol. 41, no. 2, Jan. 2014, pp. 694–701, <https://doi.org/10.1002/2013GL058642>.

Sun, Yadong, et al. 'Lethally Hot Temperatures During the Early Triassic Greenhouse'. *Science*, vol. 338, no. 6105, Oct. 2012, pp. 366–70, <https://doi.org/10.1126/science.1224126>.

Takehiro, Hayashi. 'School-Community Collaboration in Disaster Education in a Primary School near Merapi Volcano in Java Island'. *AIP Conference Proceedings*, 2016, <https://doi.org/10.1063/1.4947418>.

Tandon, S. K. 'Records of the Influence of Deccan Volcanism on Contemporary Sedimentary Environments in Central India'. *Sedimentary Geology*, vol. 147, nos 1–2, Mar. 2002, pp. 177–92, [https://doi.org/10.1016/S0037-0738\(01\)00196-8](https://doi.org/10.1016/S0037-0738(01)00196-8).

Tang, Qi, et al. 'Tropospheric Ozone Decrease Due to the Mount Pinatubo Eruption: Reduced Stratospheric Influx'. *Geophysical Research Letters*, vol. 40, no. 20, Oct. 2013, pp. 5553–58, <https://doi.org/10.1002/2013GL056563>.

Terrestrial Volcanism in Space and Time - *Annual Review of Earth and Planetary Sciences*, 21(1):427. <http://www.annualreviews.org/doi/abs/10.1146/annurev.ea.21.050193.002235>.

The ~73 Ka Toba Super-Eruption and Its Impact: History of a Debate | Elsevier Enhanced Reader. <https://reader.elsevier.com/reader/sd/pii/S104061821100485X?token=8BF1083F8D14FAB06C16D7C57DD08CEFAA3F7D958B6428004B30024D0B707C5E11140A670864D0A693B6714D582E784E>.

The Economics of Natural Disasters - *Cesifo-Forum-V11-Y2010-I2-P014-024.Pdf*. <https://www.econstor.eu/bitstream/10419/166388/1/cesifo-forum-v11-y2010-i2-p014-024.pdf>.

'The Timing and Spatiotemporal Patterning of Neanderthal Disappearance'. *Nature*, vol. 512, no. 7514, pp. 306–10, <https://go.gale.com/ps/i.do?p=AONE&u=uniaber&id=GALE|A379640969&v=2.1&it=r>.

Thordarson, Thorvaldur. 'Atmospheric and Environmental Effects of the 1783–1784 Laki Eruption: A Review and Reassessment'. *Journal of Geophysical Research*, vol. 108, no. D1, 2003, <https://doi.org/10.1029/2001JD002042>.

Thouret, J. C., et al. 'Toward a Revised Hazard Assessment at Merapi Volcano, Central Java'. *Journal of Volcanology and Geothermal Research*, vol. 100, nos 1–4, July 2000, pp. 479–502, [https://doi.org/10.1016/S0377-0273\(00\)00152-9](https://doi.org/10.1016/S0377-0273(00)00152-9).

Tilling, Robert I., and Peter W. Lipman. 'Lessons in Reducing Volcano Risk'. *Nature*, vol. 364, no. 6435, July 1993, pp. 277-80, <https://doi.org/10.1038/364277a0>.

Tim Appenzeller. 'Eastern Odyssey: Humans Had Spread across Asia by 50,000 Years Ago. Everything Else about Our Original Exodus from Africa Is up for Debate'. *Nature*, vol. 484, no. 7396, pp. 24-27, [https://go.gale.com/ps/retrieve.do?tabID=T002&resultListType=RESULT\\_LIST&searchResultsType=SingleTab&searchType=AdvancedSearchForm&currentPosition=2&docId=GALE%7CA289432159&docType=Article&sort=Relevance&contentSegment=ZONE-MOD1&prodId=AONE&contentSet=GALE%7CA289432159&searchId=R5&userGroupName=uniaber&inPS=true](https://go.gale.com/ps/retrieve.do?tabID=T002&resultListType=RESULT_LIST&searchResultsType=SingleTab&searchType=AdvancedSearchForm&currentPosition=2&docId=GALE%7CA289432159&docType=Article&sort=Relevance&contentSegment=ZONE-MOD1&prodId=AONE&contentSet=GALE%7CA289432159&searchId=R5&userGroupName=uniaber&inPS=true).

Timmreck, C. 'Modeling the Climatic Effects of Large Explosive Volcanic Eruptions'. *Wiley Interdisciplinary Reviews: Climate Change*, vol. 3, no. 6, Nov. 2012, pp. 545-64, <https://doi.org/10.1002/wcc.192>.

Timmreck, Claudia, et al. 'Climate Response to the Toba Super-Eruption: Regional Changes'. *Quaternary International*, vol. 258, May 2012, pp. 30-44, <https://doi.org/10.1016/j.quaint.2011.10.008>.

Toohy, Matthew, et al. 'Climatic and Societal Impacts of a Volcanic Double Event at the Dawn of the Middle Ages'. *Climatic Change*, vol. 136, nos 3-4, June 2016, pp. 401-12, <https://doi.org/10.1007/s10584-016-1648-7>.

Torrence, Robin. 'Social Resilience and Long-Term Adaptation to Volcanic Disasters: The Archaeology of Continuity and Innovation in the Willaumez Peninsula, Papua New Guinea'. *Quaternary International*, vol. 394, Feb. 2016, pp. 6-16, <https://doi.org/10.1016/j.quaint.2014.04.029>.

———. 'Social Responses to Volcanic Eruptions: A Review of Key Concepts'. *Quaternary International*, vol. 499, Jan. 2019, pp. 258-65, <https://doi.org/10.1016/j.quaint.2018.02.033>.

———. 'Social Responses to Volcanic Eruptions: A Review of Key Concepts'. *Quaternary International*, vol. 499, Jan. 2019, pp. 258-65, <https://doi.org/10.1016/j.quaint.2018.02.033>.

———. 'Volcanic Disasters and Agricultural Intensification: A Case Study from the Willaumez Peninsula, Papua New Guinea'. *Quaternary International*, vol. 249, Feb. 2012, pp. 151-61, <https://doi.org/10.1016/j.quaint.2011.03.041>.

Torrence, Robin, and John Grattan. *Natural Disasters and Cultural Change*. Routledge, 2002, [http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=3037304610002418&institutionId=2418&customerId=2415](http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3037304610002418&institutionId=2418&customerId=2415).

———. *Natural Disasters and Cultural Change*. Routledge, 2002, [http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=3037246860002418&institutionId=2418&customerId=2415](http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3037246860002418&institutionId=2418&customerId=2415).

Trevisanato, Siro Igino. 'Medical Papyri Describe the Effects of the Santorini Eruption on Human Health, and Date the Eruption to August 1603–March 1601 BC'. *Medical Hypotheses*, vol. 68, no. 2, 2007, pp. 446–49, <https://doi.org/10.1016/j.mehy.2006.06.059>.

———. 'Treatments for Burns in the London Medical Papyrus Show the First Seven Biblical Plagues of Egypt Are Coherent with Santorini's Volcanic Fallout'. *Medical Hypotheses*, vol. 66, no. 1, Jan. 2006, pp. 193–96, <https://doi.org/10.1016/j.mehy.2005.08.052>.

———. 'Treatments for Burns in the London Medical Papyrus Show the First Seven Biblical Plagues of Egypt Are Coherent with Santorini's Volcanic Fallout'. *Medical Hypotheses*, vol. 66, no. 1, Jan. 2006, pp. 193–96, <https://doi.org/10.1016/j.mehy.2005.08.052>.

Trigo, Ricardo M., et al. 'Witnessing the Impact of the 1783–1784 Laki Eruption in the Southern Hemisphere'. *Climatic Change*, vol. 99, nos 3–4, Apr. 2010, pp. 535–46, <https://doi.org/10.1007/s10584-009-9676-1>.

Understanding the Environmental Impacts of Large Fissure Eruptions: Aerosol and Gas Emissions from the 2014–2015 Holuhraun Eruption (Iceland) - 1-S2.0-S0012821X17302911-Main.Pdf.  
<https://discovery.ucl.ac.uk/id/eprint/10074536/1/1-s2.0-S0012821X17302911-main.pdf>.

Vakulenko, N. V., and D. M. Sonechkin. 'Analysis of Early Instrumental Air Temperature Observations before and after the Tambora Volcano Eruption'. *Russian Meteorology and Hydrology*, vol. 42, no. 10, Oct. 2017, pp. 677–84, <https://doi.org/10.3103/S1068373917100089>.

VAN DE SCHOOTBRUGGE, BAS, and PAUL B. WIGNALL. 'A Tale of Two Extinctions: Converging End-Permian and End-Triassic Scenarios'. *Geological Magazine*, vol. 153, no. 2, Mar. 2016, pp. 332–54, <https://doi.org/10.1017/S0016756815000643>.

van Summeren, Joost, et al. 'MANTLE CONVECTION, PLATE TECTONICS, AND VOLCANISM ON HOT EXO-EARTHS'. *The Astrophysical Journal*, vol. 736, no. 1, July 2011, <https://doi.org/10.1088/2041-8205/736/1/L15>.

Veale, Lucy, and Georgina H. Endfield. 'Situating 1816, the "Year without Summer", in the UK'. *The Geographical Journal*, vol. 182, no. 4, Dec. 2016, pp. 318–30, <https://doi.org/10.1111/geoj.12191>.

Vidal, Céline M., et al. 'The 1257 Samalas Eruption (Lombok, Indonesia): The Single Greatest Stratospheric Gas Release of the Common Era'. *Scientific Reports*, vol. 6, no. 1, Dec. 2016, <https://doi.org/10.1038/srep34868>.

Villa, Paola, et al. 'From Neandertals to Modern Humans: New Data on the Uluzzian'. *PLOS ONE*, vol. 13, no. 5, May 2018, <https://doi.org/10.1371/journal.pone.0196786>.

Volcanism and Tectonics on Venus. <http://www.es.ucsc.edu/~fnimmo/website/paper5.pdf>.

Wacey, David, et al. 'Geochemistry and Nano-Structure of a Putative ~3240 Million-Year-Old Black Smoker Biota, Sulphur Springs Group, Western Australia'.

Precambrian Research, vol. 249, Aug. 2014, pp. 1–12,  
<https://doi.org/10.1016/j.precamres.2014.04.016>.

Wagner, B., et al. 'Potential Impact of the 74 Ka Toba Eruption on the Balkan Region, SE Europe'. *Climate of the Past Discussions*, vol. 9, no. 3, June 2013, pp. 3307–19,  
<https://doi.org/10.5194/cpd-9-3307-2013>.

———. 'Potential Impact of the 74 Ka Toba Eruption on the Balkan Region, SE Europe'. *Climate of the Past Discussions*, vol. 9, no. 3, June 2013, pp. 3307–19,  
<https://doi.org/10.5194/cpd-9-3307-2013>.

Walker, George P. L., et al. 'Tarawera 1886, New Zealand — A Basaltic Plinian Fissure Eruption'. *Journal of Volcanology and Geothermal Research*, vol. 21, nos 1–2, June 1984, pp. 61–78, [https://doi.org/10.1016/0377-0273\(84\)90016-7](https://doi.org/10.1016/0377-0273(84)90016-7).

Wignall, P. 'The Link between Large Igneous Province Eruptions and Mass Extinctions'. *Elements*, vol. 1, no. 5, Dec. 2005, pp. 293–97,  
<https://doi.org/10.2113/gselements.1.5.293>.

Wignall, P. B. 'Large Igneous Provinces and Mass Extinctions'. *Earth-Science Reviews*, vol. 53, nos 1–2, Mar. 2001, pp. 1–33, [https://doi.org/10.1016/S0012-8252\(00\)00037-4](https://doi.org/10.1016/S0012-8252(00)00037-4).

Williams, Martin A. J., Stanley H. Ambrose, Sander van der Kaars, et al. 'Environmental Impact of the 73ka Toba Super-Eruption in South Asia'. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 284, nos 3–4, Dec. 2009, pp. 295–314,  
<https://doi.org/10.1016/j.palaeo.2009.10.009>.

Williams, Martin A. J., Stanley H. Ambrose, Sander van der Kaars, et al. 'Reply to the Comment on "Environmental Impact of the 73ka Toba Super-Eruption in South Asia" by M. A. J. Williams, S. H. Ambrose, S. van Der Kaars, C. Ruehlemann, U. Chattopadhyaya, J. Pal, P. R. Chauhan [Palaeogeography, Palaeoclimatology, Palaeoecology 284 (2009) 295–314]'. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 296, nos 1–2, Oct. 2010, pp. 204–11, <https://doi.org/10.1016/j.palaeo.2010.05.043>.

Wilson, Robert M. 'Variation of Surface Air Temperatures in Relation to El Niño and Cataclysmic Volcanic Eruptions, 1796–1882'. *Journal of Atmospheric and Solar-Terrestrial Physics*, vol. 61, no. 17, Nov. 1999, pp. 1307–19,  
[https://doi.org/10.1016/S1364-6826\(99\)00055-3](https://doi.org/10.1016/S1364-6826(99)00055-3).

Winchester, Simon. *Krakatoa: The Day the World Exploded, 27 August 1883*. Penguin Books, 2004.

Witham, C. S. 'Volcanic Disasters and Incidents: A New Database'. *Journal of Volcanology and Geothermal Research*, vol. 148, nos 3–4, Dec. 2005, pp. 191–233,  
<https://doi.org/10.1016/j.jvolgeores.2005.04.017>.

Witham, C. S., and C. Oppenheimer. 'Mortality in England during the 1783?4 Laki Craters Eruption'. *Bulletin of Volcanology*, vol. 67, no. 1, Dec. 2004, pp. 15–26,  
<https://doi.org/10.1007/s00445-004-0357-7>.

Woo, Judith Y. L., and Christopher R. J. Kilburn. 'Intrusion and Deformation at Campi

Flegrei, Southern Italy: Sills, Dikes, and Regional Extension'. *Journal of Geophysical Research*, vol. 115, no. B12, Dec. 2010, <https://doi.org/10.1029/2009JB006913>.

Yalcin, Kaplan, et al. 'Ice Core Evidence for a Second Volcanic Eruption around 1809 in the Northern Hemisphere'. *Geophysical Research Letters*, vol. 33, no. 14, 2006, <https://doi.org/10.1029/2006GL026013>.

YANG, ZHONGKANG, et al. 'A Great Volcanic Eruption around AD 1300 Recorded in Lacustrine Sediment from Dongdao Island, South China Sea'. *Journal of Earth System Science*, vol. 126, no. 1, Feb. 2017, <https://doi.org/10.1007/s12040-016-0790-y>.

Zambri, Brian, et al. 'Modeling the 1783–1784 Laki Eruption in Iceland: 1. Aerosol Evolution and Global Stratospheric Circulation Impacts'. *Journal of Geophysical Research: Atmospheres*, July 2019, <https://doi.org/10.1029/2018JD029553>.

———. 'Modeling the 1783–1784 Laki Eruption in Iceland: 2. Climate Impacts'. *Journal of Geophysical Research: Atmospheres*, July 2019, <https://doi.org/10.1029/2018JD029554>.

Zanchetta, Giovanni, et al. 'Tephrostratigraphy of Paleoclimatic Archives in Central Mediterranean during the Bronze Age'. *Quaternary International*, vol. 499, Jan. 2019, pp. 186–94, <https://doi.org/10.1016/j.quaint.2018.06.012>.

Zeidler, James A. 'Modeling Cultural Responses to Volcanic Disaster in the Ancient Jama-Coaque Tradition, Coastal Ecuador: A Case Study in Cultural Collapse and Social Resilience'. *Quaternary International*, vol. 394, Feb. 2016, pp. 79–97, <https://doi.org/10.1016/j.quaint.2015.09.011>.