

The GNS Staff Publications list is divided into the following sections:

[Peer-Reviewed Journal Articles](#)

[Peer-Reviewed Books/Chapters in Books](#)

[Refereed Conference Proceedings/Paper](#)

[Other Publications](#)

[Conference Abstracts](#)

Peer-Reviewed Journal Articles

Adams, C.J.; Campbell, H.J.; Griffin, W.L. 2018 Provenance of Jurassic sandstones in the Rakaia Terrane, Canterbury, New Zealand. *New Zealand Journal of Geology and Geophysics*, 61(2): 136-144; [doi: 10.1080/00288306.2018.1447975](https://doi.org/10.1080/00288306.2018.1447975)

Ahmed, S.; Ding, X.; Murmu, P.P.; Bao, N.N.; Liu, R.; Kennedy, J.V.; Ding, J.; Yi, J.B. 2018 Magnetic properties of Co doped WSe₂ by implantation. *Journal of Alloys and Compounds*, 731: 25-31; [doi: 10.1016/j.jallcom.2017.09.288](https://doi.org/10.1016/j.jallcom.2017.09.288)

Allstadt, K.E.; Jibson, R.W.; Thompson, E.M.; Massey, C.I.; Wald, D.J.; Godt, J.W.; Rengers, F.K. 2018 Improving near-real-time coseismic landslide models: lessons learned from the 2016 Kaikoura, New Zealand, earthquake. *Bulletin of the Seismological Society of America*, 108(3B): 1649-1664; [doi: https://doi.org/10.1785/0120170297](https://doi.org/10.1785/0120170297)

Amanulla, A.M.; Shahina, S.K.J.; Sundaram, R.; Magdalene, C.M.; Kaviyarasu, K.; Letsholathebe, D.; Mohamed, S.B.; Kennedy J.V.; Maaza, M. 2018 Antibacterial, magnetic, optical and humidity sensor studies of β -CoMoO₄ - Co₃O₄ nanocomposites and its synthesis and characterization. *Journal of photochemistry and photobiology. Section B, Biology*, 183: 233-241; [doi: 10.1016/j.jphotobiol.2018.04.034](https://doi.org/10.1016/j.jphotobiol.2018.04.034)

Ameli, A.A.; Gabrielli, C.; Morgenstern, U.; McDonnell, J.J. 2018 Groundwater subsidy from headwaters to their parent water watershed: a combined field-modelling approach. *Water Resources Research*, 54(7): 5110-5125; [doi: 10.1029/2017WR022356](https://doi.org/10.1029/2017WR022356)

- Amoroso, R.O.; Pitcher, C.R.; Rijnsdorp, A.D.; McConnaughey, R.A.; Parma, A.M.; Suuronen, P.; Eigaard, O.R.; Bastardie, F.; Hintzen, N.T.; Althaus, F.; Baird, S.J.; Black, J.; Buhl-Mortensen, L.; Campbell, A.B.; Catarino, R.; Collie, J.; Cowan, J.H., Jr.; Durholtz, D.; Engstrom, N.; Fairweather, T.P.; Fock, H.O.; Ford, R.; Gálvez, P.A.; Gerritsen, H.; Góngora, M.E.; González, J.A.; Hiddink, J.G.; Hughes, K.M.; Intelmann, S.S.; Jenkins, C.; Jonsson, P.; Kainge, P.; Kangas, M.; Kathena, J.N.; Kavadas, S.; Leslie, R.W.; Lewise, S.G.; Lundy, M.; Makin, D.; Martin, J.; Mazor, T.; Gonzalez-Mirelis, G.; Newman, S.J.; Papadopoulou, N.; Posen, P.E.; Rochester, W.; Russo, T.; Sala, A.; Semmens, J.M.; Silvan, C.; Tsolos, A.; Vanelslander, B.; Wakefield, C.B.; Wood, B.A.; Hilborn, R.; Kaiser, M.J.; Jennings, S. 2018** Bottom trawl fishing footprints on the world's continental shelves. *Proceedings of the National Academy of Sciences of the United States of America*, 115(43): E10275-E10282; [doi: 10.1073/pnas.1802379115](https://doi.org/10.1073/pnas.1802379115)
- Anderson, H.J.; Moy, C.M.; Vandergoes, M.J.; Nichols, J.E.; Riesselman, C.R.; Van Hale, R. 2018** Southern Hemisphere westerly wind influence on southern New Zealand hydrology during the Lateglacial and Holocene. *Journal of Quaternary Science*, 33(6): 689-701; [doi: 10.1002/jqs.3045](https://doi.org/10.1002/jqs.3045)
- Ando, R.; Kaneko, Y. 2018** Dynamic rupture simulation reproduces spontaneous multifault rupture and arrest during the 2016 M_w 7.9 Kaikoura earthquake. *Geophysical Research Letters*, 45(23): 12,875-12,883; [doi: 10.1029/2018GL080550](https://doi.org/10.1029/2018GL080550)
- Árnadóttir, T.; Haines, A.J.; Geirsson, H.; Hreinsdóttir, S. 2018** A preseismic strain anomaly detected before the M_6 earthquakes in the South Iceland Seismic Zone from GPS station velocities. *Journal of Geophysical Research. Solid Earth*, 123(12): 11,091-11,111; [doi: 10.1029/2018JB016068](https://doi.org/10.1029/2018JB016068)
- Břežný, M.; Pánek, T.; Lenart, J.; Zondervan, A.; Braucher, R. 2018** ^{10}Be dating reveals pronounced Mid-to Late Holocene activity of deep-seated landslides in the highest part of the Czech Flysch Carpathians. *Quaternary Science Reviews*, 195: 180-194; [doi: 10.1016/j.quascirev.2018.07.030](https://doi.org/10.1016/j.quascirev.2018.07.030)
- Barker, D.H.N.; Henrys, S.A.; Caratori Tontini, F.; Barnes, P.M.; Bassett, D.; Todd, E.; Wallace, L.M. 2018** Geophysical constraints on the relationship between seamount subduction, slow slip and tremor at the north Hikurangi subduction zone, New Zealand. *Geophysical Research Letters*, 45(23): 12,804-12,813; [doi: 10.1029/2018GL080259](https://doi.org/10.1029/2018GL080259)
- Barnes, P.M.; Ghisetti, F.C.; Ellis, S.M.; Morgan, J.K. 2018** The role of protothrusts in frontal accretion and accommodation of plate convergence, Hikurangi subduction margin, New Zealand. *Geosphere*, 14(2): 440-468; [doi: 10.1130/GES01552.1](https://doi.org/10.1130/GES01552.1)
- Barrett, R.S.; Davy, B.W.; Stern, T.A.; Grohl, K. 2018** The strike-slip West Wishbone Ridge and the eastern margin of the Hikurangi Plateau. *Geochemistry Geophysics Geosystems*, 19(4): 1199-1216; [doi: 10.1002/2017GC007372](https://doi.org/10.1002/2017GC007372)

- Basher, L.; Betts, H.; Lynn, I.; Marden, M.; McNeill, M.; Page, M.J.; Rosser, B.J. 2018** A preliminary assessment of the impact of landslide, earthflow, and gully erosion on soil carbon stocks in New Zealand. *Geomorphology*, 307: 93-106; [doi: 10.1016/j.geomorph.2017.10.006](https://doi.org/10.1016/j.geomorph.2017.10.006)
- Bebbington, M.S.; Stirling, M.W.; Cronin, S.; Wang, T.; Jolly, G.E. 2018** National-level long-term eruption forecasts by expert elicitation. *Bulletin of Volcanology*, 80(6): Article 56; [doi: 10.1007/s00445-018-1230-4](https://doi.org/10.1007/s00445-018-1230-4)
- Bebout, G.E.; Scholl, D.W.; Stern, R.J.; Wallace, L.M.; Agard, P. 2018** Twenty years of subduction zone science. *GSA today*, 28(2): 4-10; [doi: 10.1130/GSATG354A.1](https://doi.org/10.1130/GSATG354A.1)
- Berryman, K.R.; Clark, K.J.; Cochran, U.A.; Beu, A.G.; Irwin, S. 2018** A geomorphic and tectonic model for the formation of the flight of Holocene marine terraces at Mahia Peninsula, New Zealand. *Geomorphology*, 307: 77-92; [doi: 10.1016/j.geomorph.2017.10.014](https://doi.org/10.1016/j.geomorph.2017.10.014)
- Berryman, K.R.; Hamling, I.J.; Kaiser, A.E.; Stahl, T. 2018** Introduction to the special issue on the 2016 Kaikoura earthquake. *Bulletin of the Seismological Society of America*, 108(3B): 1491-1495; [doi: 10.1785/0120180131](https://doi.org/10.1785/0120180131)
- Bertler, N.A.N.; Conway, H.; Dahl-Jensen, D.; Emanuelsson, D.B.; Winstrup, M.; Vallelonga, P.T.; Lee, J.E.; Brook, E.J.; Severinghaus, J.P.; Fudge, T.J.; Keller, E.D.; Baisden, W.T.; Hindmarsh, R.C.A.; Neff, P.D.; Blunier, T.; Edwards, R.; Mayewski, P.A.; Kipfstuhl, S.; Buizert, C.; Canessa, S.; Dadic, R.; Kjaer, H.A.; Kurbatov, A.; Zhang, D.; Waddington, E.D.; Baccolo, G.; Beers, T.; Brightley, H.J.; Carter, L.; Clemens-Sewall, D.; Ciobanu, V.G.; Delmonte, B.; Eling, L.; Ellis, A.A.; Ganesh, S.; Golledge, N.R.; Haines, S.; Handley, M.; Hawley, R.L.; Hogan, C.M.; Johnson, K.M.; Korotkikh, E.; Lowry, D.P.; Mandeno, D.; McKay, R.M.; Menking J.A.; Naish, T.R.; Noerling, C.; Ollive, A.; Orsi, A.; Proemse, B.C.; Pyne, A.R.; Pyne, R.L.; Renwick, J.; Scherer, R.P.; Semper, S.; Simonsen, M.; Sneed, S.B.; Steig, E.J.; Tuohy, A.; Venugopal, A.U.; Valero-Delgado, F.; Venkatesh, J.; Wang, F.; Wang, S.; Winski, D.A.; Winton, V.H.L.; Whiteford, A.; Xiao, C.; Yang, J.; Zhang, X. 2018** The Ross Sea dipole - temperature, snow accumulation and sea ice variability in the Ross Sea region, Antarctica, over the past 2,700 years. *Climate of the past*, 14: 193-214; [doi: 10.5194/cp-14-193-2018](https://doi.org/10.5194/cp-14-193-2018)
- Bicknell, R.D.C.; Collins, K.S.; Crundwell, M.P.; Hannah, M.; Crampton, J.S.; Campione, N.E. 2018** Evolutionary transition in the late Neogene planktonic foraminiferal genus *Truncorotalia*. *iScience*, 8: 295-303; [doi: 10.1016/j.isci.2018.09.013](https://doi.org/10.1016/j.isci.2018.09.013)
- Blake, D.; Johnston, D.M.; Leonard, G.S.; McLaren, L.; Becker, J.S. 2018** A citizen science initiative to understand community response to the Kaikoura earthquake and tsunami warning in Petone and Eastbourne, Wellington, Aotearoa/New Zealand. *Bulletin of the Seismological Society of America*, 108(3B): 1807-1817; [doi: 10.1785/0120170292](https://doi.org/10.1785/0120170292)

- Bradley, B.A.; Wotherspoon, L.M.; Kaiser, A.E.; Cox, B.R.; Jeong, S. 2018** Influence of site effects on observed ground motions in the Wellington region from the M_w 7.8 Kaikoura, New Zealand, earthquake. *Bulletin of the Seismological Society of America*, 108(3B): 1722-1735; [doi: 10.1785/0120170286](https://doi.org/10.1785/0120170286)
- Bromley, G.; Putnam, A.; Borns, H.; Lowell, T.; Sandford, T.; Barrell, D.J.A. 2018** Interstadial rise and younger dryas demise of Scotland's last ice fields. *Paleoceanography and Paleoclimatology*, 33(4): 412-429; [doi: 10.1002/2018PA003341](https://doi.org/10.1002/2018PA003341)
- Brouwers, M.; Martin, P.J.; Abbey, D.G.; White, J. 2018** Groundwater modeling with nonlinear uncertainty analyses to enhance remediation design confidence. *Ground water*, 56(4): 562-570; [doi: 10.1111/gwat.12669](https://doi.org/10.1111/gwat.12669)
- Brown, N.A.; Orchiston, C.; Rovins, J.E.; Feldmann-Jensen, S.; Johnston, D.M. 2018** An integrative framework for investigating disaster resilience within the hotel sector. *Journal of Hospitality and Tourism Management*, 36: 67-75; [doi: 10.1016/j.jhtm.2018.07.004](https://doi.org/10.1016/j.jhtm.2018.07.004)
- Buckeridge, J.S.; Beu, A.G.; Gordon, D.P. 2018** Depositional environment of the early Pleistocene Castlepoint Formation, New Zealand: a canyon fill in situ. *New Zealand Journal of Geology and Geophysics*, 61(4): 524-542; [doi: 10.1080/00288306.2018.1516227](https://doi.org/10.1080/00288306.2018.1516227)
- Burton, Z.F.; Moldowan, J.M.; Sykes, R.; Graham, S.A. 2018** Unraveling petroleum degradation, maturity, and mixing and addressing impact on petroleum prospectivity: insights from frontier exploration regions in New Zealand. *Energy & fuels*, 32(2): 1287-1296; [doi: 10.1021/acs.energyfuels.7b03261](https://doi.org/10.1021/acs.energyfuels.7b03261)
- Böttner, C.; Gross, F.; Geersen, J.; Crutchley, G.J.; Mountjoy, J.J.; Krastel, S. 2018** Marine forearc extension in the Hikurangi Margin: new insights from high-resolution 3-D seismic data. *Tectonics*, 37(5): 1472-1491; [doi: 10.1029/2017TC004906](https://doi.org/10.1029/2017TC004906)
- Calloch, P.; Trompetter, W.J.; Brown, I.W.M.; MacKenzie, K.J.D. 2018** Oxidation resistance of [Beta]-Sialon/TiN composites: an ion beam analysis (IBA) study. *Journal of materials science*, 53(22): 15348-15361; [doi: 10.1007/s10853-018-2711-8](https://doi.org/10.1007/s10853-018-2711-8)
- Caratori Tontini, F.; Blakely, R.J.; Stagpoole, V.M.; Seebeck, H. 2018** Semi-automatic determination of dips and depths of geologic contacts from magnetic data with application to the Turi Fault System, Taranaki Basin, New Zealand. *Journal of applied geophysics*, 150: 67-73; [doi: 10.1016/j.jappgeo.2018.01.001](https://doi.org/10.1016/j.jappgeo.2018.01.001)
- Carey, R.; Adam Soule, S.; Manga, M.; White, J.D.L.; McPhie, J.; Wysoczanski, R.; Jutzeler, M.; Tani, K.; Yoerger, D.; Fornari, D.; Caratori-Tontini, F.; Houghton, B.; Mitchell, S.; Ikegami, F.; Conway, C.; Murch, A.; Fauria, K.; Jones, M.; Cahalan, R.; McKenzie, W. 2018** The largest deep-ocean silicic volcanic eruption of the past century. *Science Advances*, 4(1): e1701121; [doi: 10.1126/sciadv.1701121](https://doi.org/10.1126/sciadv.1701121)

- Cartwright, I.; Atkinson, A.P.; Gilfedder, B.S.; Hofmann, H.; Cendón, D.I.; Morgenstern, U. 2018** Using geochemistry to understand water sources and transit times in headwater streams of a temperate rainforest. *Applied Geochemistry*, 99: 1-12; [doi: 10.1016/j.apgeochem.2018.10.018](https://doi.org/10.1016/j.apgeochem.2018.10.018)
- Cartwright, I.; Irvine, D.; Burton, C.; Morgenstern, U. 2018** Assessing the controls and uncertainties on mean transit times in contrasting headwater catchments. *Journal of Hydrology*, 557: 16-29; [doi: 10.1016/j.jhydrol.2017.12.007](https://doi.org/10.1016/j.jhydrol.2017.12.007)
- Cartwright, I.; Morgenstern, U. 2018** Using tritium and other geochemical tracers to address the “old water paradox” in headwater catchments. *Journal of Hydrology*, 563: 13-21; [doi: 10.1016/j.jhydrol.2018.05.060](https://doi.org/10.1016/j.jhydrol.2018.05.060)
- Cattania, C.; Werner, M.J.; Marzocchi, W.; Hainzl, S.; Rhoades, D.A.; Gerstenberger, M.C.; Liukis, M.; Savran, W.; Christophersen, A.; Helmstetter, A.; Jimenez, A.; Steacy S.; Jordan, T.H. 2018** The forecasting skill of physics-based seismicity models during the 2010-2012 Canterbury, New Zealand, earthquake sequence. *Seismological Research Letters*, 89(4): 1238-1250; [doi: 10.1785/0220180033](https://doi.org/10.1785/0220180033)
- Caudron, C.; Taisne, B.; Neuberg, J.; Jolly, A.D.; Christenson, B.W.; Lecocq, T.; Suparjanh; Syahbana, D.; Suantika, G. 2018** Anatomy of phreatic eruptions. *Earth, Planets and Space*, 70(1): article no. 168; [doi: 10.1186/s40623-018-0938-x](https://doi.org/10.1186/s40623-018-0938-x)
- Chamberlain, C.J.; Hopp, C.J.; Boese, C.M.; Warren-Smith, E.; Chambers, D.; Chu, S.X.; Michailos, K.; Townend, J. 2018** EQcorrscan: repeating and near-repeating earthquake detection and analysis in Python. *Seismological Research Letters*, 89(1): 173-181; [doi: 10.1785/0220170151](https://doi.org/10.1785/0220170151)
- Chisholm, G.; Leveneur, J.; Futter, R.J.; Kennedy, J.V. 2018** An analog method of cross-talk compensation for a RGB wavelength division multiplexed optical link. *Optics and laser technology*, 102: 85-92; [doi: 10.1016/j.optlastec.2017.12.040](https://doi.org/10.1016/j.optlastec.2017.12.040)
- Christophersen, A.; Deligne, N.I.; Hanea, A.M.; Chardot, L.; Fournier, N.; Aspinall, W.P. 2018** Bayesian Network modeling and expert elicitation for probabilistic eruption forecasting: pilot study for Whakaari/ White Island, New Zealand. *Frontiers in Earth Science*, 6: article 211; [doi: 10.3389/feart.2018.00211](https://doi.org/10.3389/feart.2018.00211)
- Cliilverd, M.A.; Rodger, C.J.; Brundell, J.B.; Dalzell, M.; Martin, I.; Mac Manus, D.H.; Thomson, N.R.; Petersen, T.; Obana, Y. 2018** Long-lasting geomagnetically induced currents and harmonic distortion observed in New Zealand during the 07-08 September 2017 disturbed period. *Space Weather*, 16(6): 704-717; [doi: 10.1029/2018SW001822](https://doi.org/10.1029/2018SW001822)
- Cole, R.P.; White, J.D.L.; Conway, C.E.; Leonard, G.S.; Townsend, D.B.; Pure, L.R. 2018** The glaciovolcanic evolution of an andesitic edifice, South Crater, Tongariro volcano, New Zealand. *Journal of Volcanology and Geothermal Research*, 352: 55-77; [doi: 10.1016/j.jvolgeores.2017.12.003](https://doi.org/10.1016/j.jvolgeores.2017.12.003)

- Colloni, F.; De Santis, L.; Siddoway, C.S.; Bergamasco, A.; Golledge, N.R.; Lohmann, G.; Passchier, S.; Siegert, M.J. 2018** Spatio-temporal variability of processes across Antarctic ice-bed-ocean interfaces. *Nature communications*, 9: article 2289; [doi: 10.1038/s41467-018-04583-0](https://doi.org/10.1038/s41467-018-04583-0)
- Conran, J.G.; Kennedy, E.M.; Bannister, J.M. 2018** Early Eocene Ripogonaceae leaf macrofossils from New Zealand. *Australian systematic botany*, 31(1): 8-15; [doi: 10.1071/SB17016](https://doi.org/10.1071/SB17016)
- Conway, C.E.; Gamble, J.A.; Wilson, C.J.N.; Leonard, G.S.; Townsend, D.B.; Calvert, A.T. 2018** New petrological, geochemical, and geochronological perspectives on andesite-dacite magma genesis at Ruapehu volcano, New Zealand. *American Mineralogist*, 103(4): 565-581; [doi: 10.2138/am-2018-6199](https://doi.org/10.2138/am-2018-6199)
- Cook, M.J.; Johnston, J.H.; Leveneur, J. 2018** Combining a fluoroalkylsiloxane and ion implantation for hydrophilic/hydrophobic patterning on a microstructured anisotropic polymer surface. *ChemistrySelect*, 3(21): 5853-5858; [doi: 10.1002/slct.201800443](https://doi.org/10.1002/slct.201800443)
- Coussens, J.P.; Woodman, N.; Upton, P.; Menzies, C.D.; Janku-Capova, L.; Sutherland, R.; Teagle, D.A.H. 2018** The significance of heat transport by shallow fluid flow at an active plate boundary; the Southern Alps, New Zealand. *Geophysical Research Letters*, 45(19): 10,323-10,331
- Crampton, J.S.; Meyers, S.R.; Cooper, R.A.; Sadler, P.M.; Foote, M.; Harte, D.S. 2018** Pacing of Paleozoic macroevolutionary rates by Milankovitch grand cycles. *Proceedings of the National Academy of Sciences of the United States of America*, 115(22): 5686-5691; [doi: 10.1073/pnas.1714342115](https://doi.org/10.1073/pnas.1714342115)
- Crawford, M.H.; Crowley, K.; Potter, S.H.; Saunders, W.S.A.; Johnston, D.M. 2018** Risk modelling as a tool to support natural hazard risk management in New Zealand local government. *International Journal of Disaster Risk Reduction*, 28: 610-619; [doi: 10.1016/j.ijdr.2018.01.011](https://doi.org/10.1016/j.ijdr.2018.01.011)
- Crundwell, M.P. 2018** *Globoconella Pseudospinosa*, N. Sp.: a New Early Pliocene Planktonic Foraminifera from the Southwest Pacific. *Journal of foraminiferal research*, 48(4): 288-300; [doi: 10.2113/gsjfr.48.4.288](https://doi.org/10.2113/gsjfr.48.4.288)
- Crutchley, G.J.; Kroeger, K.F.; Pecher, I.A.; Gorman, A.R. 2018** How tectonic folding influences gas hydrate formation: New Zealand's Hikurangi subduction margin. *Geology*, 47(1): 39-42; [doi: 10.1130/G45151.1](https://doi.org/10.1130/G45151.1)
- Cui, T.; Moore, C.R.; Raiber, M. 2018** Probabilistic assessment of the impact of coal seam gas development on groundwater: Surat Basin, Australia. *Hydrogeology journal*, 26(7): 2357-2377; [doi: 10.1007/s10040-018-1786-2](https://doi.org/10.1007/s10040-018-1786-2)

- Dallanave, E.; Agnini, C.; Pascher, K.M.; Maurizot, P.; Bachtadse, V.; Hollis, C.J.; Dickens, G.R.; Collot, J.; Monesi, E. 2018** Magneto-biostratigraphic constraints of the Eocene micrite-calciturbidite transition in New Caledonia: tectonic implications. *New Zealand Journal of Geology and Geophysics*, 61(2): 145-163; [doi: 10.1080/00288306.2018.1443946](https://doi.org/10.1080/00288306.2018.1443946)
- Deligne, N.I.; Jolly, G.E.; Taig, T.; Webb, T.H. 2018** Evaluating life-safety risk for fieldwork on active volcanoes: the volcano life risk estimator (VoLREst), a volcano observatory's decision-support tool. *Journal of applied volcanology*, 7: article 7; [doi: 10.1186/s13617-018-0076-y](https://doi.org/10.1186/s13617-018-0076-y)
- Dijkstra, H.H.; Beu, A.G. 2018** Living scallops of Australia and adjacent waters (Mollusca: Bivalvia: Pectinoidea: Propeamussiidae, Cyclochlamydidae and Pectinidae). *Records of the Australian Museum*, 70(2): 113-330; [doi: 10.3853/j.2201-4349.70.2018.1670](https://doi.org/10.3853/j.2201-4349.70.2018.1670)
- Doyle, E.E.H.; McClure, J.; Potter, S.H.; Becker, J.S.; Johnston, D.M.; Lindell, M.K.; Johal, S.; Fraser, S.A.; Coomer, M.A. 2018** Motivations to prepare after the 2013 Cook Strait Earthquake, N.Z. *International Journal of Disaster Risk Reduction*, 31: 637-649; [doi: 10.1016/j.ijdr.2018.07.008](https://doi.org/10.1016/j.ijdr.2018.07.008)
- Eaves, S.R.; Collins, J.A.; Jones, R.S.; Norton, K.P.; Tims, S.G.; Mackintosh, A.N. 2018** Further constraint of the *in situ* cosmogenic ^{10}Be production rate in pyroxene and a viability test for late Quaternary exposure dating. *Quaternary geochronology*, 48: 121-132; [doi: 10.1016/j.quageo.2018.09.006](https://doi.org/10.1016/j.quageo.2018.09.006)
- Eberhart-Phillips, D.; Fry, B. 2018** Joint local earthquake and teleseismic inversion for 3-D velocity and Q in New Zealand. *Physics of the Earth and Planetary Interiors*, 283: 48-66; [doi: 10.1016/j.pepi.2018.08.005](https://doi.org/10.1016/j.pepi.2018.08.005)
- Eberhart-Phillips, D.; Reyners, M.E.; Upton, P. Gubbins, D. 2018** Insights into the structure and tectonic history of the southern South Island, New Zealand, from the 3-D distribution of P- and S-wave attenuation. *Geophysical Journal International*, 214(2): 1481-1505; [doi: 10.1093/gji/ggy194](https://doi.org/10.1093/gji/ggy194)
- Egbelakin, T.; Poshdar, M.; Walsh, K.Q.; Ingham, J.; Johnston, D.M.; Becker, J.S.; Mbachu, J.; Rasheed, E. 2018** Preparedness of small to medium-sized enterprises to earthquake disaster: Napier and Dunedin case studies. *Bulletin of the New Zealand Society for Earthquake Engineering*, 51(4): 171-182
- Emanuelsson, B.D.; Bertler, N.A.N.; Neff, P.D.; Renwick, J.A.; Markle, B.R.; Baisden, W.T.; Keller, E.D. 2018** The role of Amundsen–Bellingshausen Sea anticyclonic circulation in forcing marine air intrusions into West Antarctica. *Climate dynamics*, 51(9/10): 3579-3596; [doi: 10.1007/s00382-018-4097-3](https://doi.org/10.1007/s00382-018-4097-3)

- Etienne, S.; Collot, J.; Sutherland, R.; Patriat, M.; Bache, F.; Rouillard, P.; Henrys, S.A.; Barker, D.H.N.; Juan, C. 2018** Deepwater sedimentation and Cenozoic deformation in the Southern New Caledonia Trough (Northern Zealandia, SW Pacific). *Marine and Petroleum Geology*, 92: 764-779; [doi: 10.1016/j.marpetgeo.2017.12.007](https://doi.org/10.1016/j.marpetgeo.2017.12.007)
- Fang, F.; Rogers, J.; Murmu, P.P.; Kennedy, J.V. 2018** Structure and morphology of copper oxide composite materials synthesised by the arc discharge method. *Modern physics letters B*, 32(34n36): article 1840067; [doi: 10.1142/S0217984918400675](https://doi.org/10.1142/S0217984918400675)
- Fiedler, H.; Gupta, P.S.; Kennedy, J.V.; Markwitz, A. 2018** $^{28}\text{Si}^+$ ion beams from Penning ion source based implanter systems for near-surface isotopic purification of silicon. *Review of scientific instruments*, 89: article 123305; [doi: 10.1063/1.5048949](https://doi.org/10.1063/1.5048949)
- Field, B.D.; Barton, B.; Funnell, R.H.; Higgs, K.E.; Nicol, A.; Seebeck, H. 2018** Managing potential interactions of subsurface resources. *Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy*, 232(1): 6-11; [doi: 10.1177/0957650917717628](https://doi.org/10.1177/0957650917717628)
- Field, B.D.; Browne, G.H.; Fielding, C.R.; Florindo, F.; Harwood, D.M.; Judge, S.A.; Krissek, L.A.; Panter, K.S.; Passchier, S.; Pekar, S.F.; Sandroni, S.; Talarico, F.M. 2018** A sedimentological record of early Miocene ice advance and retreat, AND-2A drill hole, McMurdo Sound, Antarctica. *Geosphere*, 14(4): 1780-1803; [doi: 10.1130/GES01592.1](https://doi.org/10.1130/GES01592.1)
- Fischer, H.; Meissner, K.J.; Mix, A.C.; Abram, N.J.; Auermann, J.; Brovkin, V.; Capron, E.; Colombaroli, D.; Danilov, A.-L.; Dyez, K.A.; Felis, T.; Finkelstein, S.A.; Jaccard, S.L.; McClymont, E.L.; Rovere, A.; Sutter, J.; Wolff, E.W.; Affolter, S.; Bakker, P.; Ballesteros Canovas, J.A.; Barbante, C.; Caley, T.; Carlson, A.E.; Churakova, O.; Cortese, G.; Cumming, B.F.; Davis, B.A.S.; de Vernal, A.; Emile-Geay, J.; Fritz, S.C.; Gierz, P.; Gottschalk, J.; Holloway, M.D.; Joos, F.; Kucera, M.; Loutre, M.-F.; Lunt, D.J.; Marcisz, K.; Marlon, J.R.; Martinez, P.; Masson-Delmotte, V.; Nehrbass-Ahles, C.; Otto-Bliesner, B.L.; Raible, C.C.; Risebrobakken, B.; Sanchez Goni, M.F.; Arrigo, J.S.; Sarnthein, M.; Sjolte, J.; Stocker, T.F.; Velasquez Alvarez, P.A.; Tinner, W.; Valdes, P.J.; Vogel, H.; Wanner, H.; Yan, Q.; Yu, Z.; Ziegler, M.; Zhou, L. 2018** Palaeoclimate constraints on the impact of 2 °C anthropogenic warming and beyond. *Nature geoscience*, 11: 474-485
- Foote, M.; Cooper, R.A.; Crampton, J.S.; Sadler, P.M. 2018** Diversity-dependent evolutionary rates in early Palaeozoic zooplankton. *Proceedings. Biological Sciences*, 285(1873): [doi: 10.1098/rspb.2018.0122](https://doi.org/10.1098/rspb.2018.0122)
- Frith, N.V.; Hilton, R.G.; Howarth, J.D.; Gröcke, D.R.; Fitzsimons, S.J.; Croissant, T.; Wang, J.; McClymont, E.L.; Dahl, J.A.; Densmore, A.L. 2018** Carbon export from mountain forests enhanced by earthquake-triggered landslides over millennia. *Nature geoscience*, 11(10): 772-776; [doi: 10.1038/s41561-018-0216-3](https://doi.org/10.1038/s41561-018-0216-3)

- Fu, H.; Hu, X.; Crouch, E.M.; An, W.; Wang, J.; Garzanti, E. 2018** Upper Cretaceous trench deposits of the Neo-Tethyan subduction zone: Jiachala Formation from Yarlung Zangbo suture zone in Tibet, China. *Science China. Earth Sciences*, 62(9): 1204-1220; [doi: 10.1007/s11430-017-9223-5](https://doi.org/10.1007/s11430-017-9223-5)
- Gabrielli, C.P.; Morgenstern, U.; Stewart, M.K.; McDonnell, J.J. 2018** Contrasting groundwater and streamflow ages at the Maimai Watershed. *Water Resources Research*, 54(6): 3937-3957; [doi: 10.1029/2017WR021825](https://doi.org/10.1029/2017WR021825)
- Gamble, J.A.; Adams, C.J.; Morris, P.A.; Wysoczanski, R.J.; Handler, M.; Timm, C. 2018** The geochemistry and petrogenesis of Carnley Volcano, Auckland Islands, SW Pacific. *New Zealand Journal of Geology and Geophysics*, 61(4): 480-497; [doi: 10.1080/00288306.2018.1505642](https://doi.org/10.1080/00288306.2018.1505642)
- Gemmell, M.R.; Trewick, S.A.; Crampton, J.S.; Vaux, F.; Hills, S.F.K.; Daly, E.E.; Marshall, B.A.; Beu, A.G.; Morgan-Richards, M. 2018** Genetic structure and shell shape variation within a rocky shore whelk suggest both diverging and constraining selection with gene flow. *Biological Journal of the Linnean Society*, 125(4): 827-843; [doi: 10.1093/biolinnean/bly142](https://doi.org/10.1093/biolinnean/bly142)
- Giona Bucci, M.; Almond, P.C.; Villamor, P.; Tuttle, M.P.; Stringer, M.; Smith, C.M.S.; Ries, W.F.; Bourgeois, J.; Loame, R.; Howarth, J.D.; Watson, M. 2018** Controls on patterns of liquefaction in a coastal dune environment, Christchurch, New Zealand. *Sedimentary Geology*, 377: 17-33; [doi: 10.1016/j.sedgeo.2018.09.005](https://doi.org/10.1016/j.sedgeo.2018.09.005)
- Giona Bucci, M.; Villamor, P.; Almond, P.; Tuttle, M.; Stringer, M.; Ries, W.F.; Smith, C.; Hodge, M.; Watson, M. 2018** Associations between sediment architecture and liquefaction susceptibility in fluvial settings: the 2010–2011 Canterbury Earthquake Sequence, New Zealand. *Engineering Geology*, 237: 181-197; [doi: 10.1016/j.enggeo.2018.01.013](https://doi.org/10.1016/j.enggeo.2018.01.013)
- Glynn, P.D.; Voinov, A.A.; Shapiro, C.D.; White, P.A. 2018** Response to comment by Walker et al. on "From data to decisions: processing information, biases, and beliefs for improved management of natural resources and environments". *Earth's Future*, 6(5): 762-769; [doi: 10.1002/2018EF000819](https://doi.org/10.1002/2018EF000819)
- Goded, T.; Horspool, N.A.; Canessa, S.; Lewis, A.E.; Geraghty, K.; Jeffrey, A.; Gerstenberger, M.C. 2018** New macroseismic intensity assessment method for New Zealand web questionnaires. *Seismological Research Letters*, 89(2A): 640-652; [doi: 10.1785/0220170163](https://doi.org/10.1785/0220170163)
- Goded, T.; Lewis, A.; Stirling, M.W. 2018** Seismic vulnerability scenarios of Unreinforced Masonry churches in New Zealand. *Bulletin of Earthquake Engineering*, 16(9): 3957-3999; [doi: 10.1007/s10518-018-0351-7](https://doi.org/10.1007/s10518-018-0351-7)

- Grant, A.; Wartman, J.; Massey, C.I.; Olsen, M.J.; O'Banion, M.; Motley, M. 2018** The impact of rockfalls on dwellings during the 2011 Christchurch, New Zealand, earthquakes. *Landslides*, 15(1): 31-42; doi: [10.1007/s10346-017-0855-2](https://doi.org/10.1007/s10346-017-0855-2)
- Grant, G.R.; Sefton, J.P.; Patterson, M.O.; Naish, T.R.; Dunbar, G.B.; Hayward, B.W.; Morgans, H.E.G.; Alloway, B.V.; Seward, D.; Tapia, C.A.; Prebble, J.G.; Kamp, P.J.J.; McKay, R.; Ohneiser, C.; Turner, G.M. 2018** Mid- to late Pliocene (3.3–2.6 Ma) global sea-level fluctuations recorded on a continental shelf transect, Whanganui Basin, New Zealand. *Quaternary Science Reviews*, 201: 241-260; doi: [10.1016/j.quascirev.2018.09.044](https://doi.org/10.1016/j.quascirev.2018.09.044)
- Grapenthin, R.; Hreinsdottir, S.; van Eaton, A. 2018** Volcanic hail detected with GPS: the 2011 eruption of Grímsvötn Volcano, Iceland. *Geophysical Research Letters*, 45(22): doi: [10.1029/2018GL080317](https://doi.org/10.1029/2018GL080317)
- Gross, F.; Mountjoy, J.J.; Crutchley, G.J.; Böttner, C.; Koch, S.; Bialas, J.; Pecher, I.A.; Woelz, S.; Dannowski, A.; Micallef, A.; Huhn, K.; Krastel, S. 2018** Free gas distribution and basal shear zone development in a subaqueous landslide – Insight from 3D seismic imaging of the Tuaheni Landslide Complex, New Zealand. *Earth and Planetary Science Letters*, 502: 231-243; doi: [10.1016/j.epsl.2018.09.002](https://doi.org/10.1016/j.epsl.2018.09.002)
- Gusman, A.R.; Goto, T.; Satake, K.; Takahashi, T.; Ishibe, T. 2018** Sediment transport modeling of multiple grain sizes for the 2011 Tohoku tsunami on a steep coastal valley of Numanohama, northeast Japan. *Marine Geology*, 405: 77-91; doi: [10.1016/j.margeo.2018.08.003](https://doi.org/10.1016/j.margeo.2018.08.003)
- Gusman, A.R.; Satake, K.; Gunawan, E.; Hamling, I.J.; Power, W.L. 2018** Contribution from multiple fault ruptures to tsunami generation during the 2016 Kaikoura earthquake. *Pure and Applied Geophysics*, 175(8): 2557-2574; doi: [10.1007/s00024-018-1949-z](https://doi.org/10.1007/s00024-018-1949-z)
- Haines, R.J.; Sutherland, R. 2018** A faulted thin-sheet model of plate boundary deformation that fits observations. *Journal of Geophysical Research. Solid Earth*, 123(10): 9162-9185; doi: [10.1029/2018JB015466](https://doi.org/10.1029/2018JB015466)
- Hamling, I.J.; Upton, P. 2018** Observations of aseismic slip driven by fluid pressure following the 2016 Kaikoura, New Zealand, earthquake. *Geophysical Research Letters*, 45(20): 11,030-11,039; doi: [10.1029/2018GL079224](https://doi.org/10.1029/2018GL079224)
- Harris, R.A.; Barall, M.; Aagard, B.; Ma, S.; Roten, D.; Olsen, K.; Duan, B.; Liu, D.; Luo, B.; Bai, K.; Ampuero, J.-P.; Kaneko, Y.; Gabriel, A.-A.; Duru, K.; Ulrich, T.; Wollherr, S.; Shi, Z.; Dunham, E.; Bydlon, S.; Zhang, Z.; Chen, X.; Somala, S.N.; Pelties, C.; Tago, J.; Cruz-Atienza, V.M.; Kozdon, J.; Daub, E.; Aslam, K.; Kase, Y.; Withers, K.; Dalguer, L. 2018** A suite of exercises for verifying dynamic earthquake rupture codes. *Seismological Research Letters*, 89(3): 1146-1162; doi: [10.1785/0220170222](https://doi.org/10.1785/0220170222)

- Harte, D.S. 2018** Effect of sample size on parameter estimates and earthquake forecasts. *Geophysical Journal International*, 214(2): 759-772; doi: [10.1093/gji/ggy150](https://doi.org/10.1093/gji/ggy150)
- Higgs, K.E.; Browne, G.H.; Howden, A.D. 2018** Murihiku rocks as potential petroleum reservoirs in Zealandia. *New Zealand Journal of Geology and Geophysics*, 61(4): 508-523; doi: [10.1080/00288306.2018.1509879](https://doi.org/10.1080/00288306.2018.1509879)
- Higgs, K.E.; King, P.R. 2018** Sandstone provenance and sediment dispersal in a complex tectonic setting: Taranaki Basin, New Zealand. *Sedimentary Geology*, 372: 112-139; doi: [10.1016/j.sedgeo.2018.05.004](https://doi.org/10.1016/j.sedgeo.2018.05.004)
- Hillman, J.I.T.; Klaucke, I.; Bialas, J.; Feldman, H.; Drexler, T.; Awwiller, D.; Atgin, O.; Çifçi, G. 2018** Gas migration pathways and slope failures in the Danube Fan, Black Sea. *Marine and Petroleum Geology*, 92: 1069-1084; doi: [10.1016/j.marpetgeo.2018.03.025](https://doi.org/10.1016/j.marpetgeo.2018.03.025)
- Hillman, J.I.T.; Klaucke, I.; Pecher, I.A.; Gorman, A.R.; Schneider von Deimling, J.; Bialas, J. 2018** The influence of the submarine currents associated with the Subtropical Front on seafloor depression morphologies on the eastern passive margin of South Island, New Zealand. *New Zealand Journal of Geology and Geophysics*, 61(1): 112-125; doi: [10.1080/00288306.2018.1434801](https://doi.org/10.1080/00288306.2018.1434801)
- Hillman, J.I.T.; Lamarche, J.; Pallentin, A.; Pecher, I.A.; Gorman, A.R.; Schneider Von Demling, J. 2018** Validation of automated supervised segmentation of multibeam backscatter data from the Chatham Rise, New Zealand. *Marine Geophysical Research*, 39(1/2): 205-227; doi: [10.1007/s11001-016-9297-9](https://doi.org/10.1007/s11001-016-9297-9)
- Hoffmann, H.; Cartwright, I.; Morgenstern, U. 2018** Estimating retention potential of headwater catchment using Tritium time series. *Journal of Hydrology*, 561: 557-572; doi: [10.1016/j.jhydrol.2018.04.030](https://doi.org/10.1016/j.jhydrol.2018.04.030)
- Howarth, J.D.; Cochran, U.A.; Langridge, R.M.; Clark, K.J.; Fitzsimons, S.J.; Berryman, K.R.; Villamor, P.; Strong, D.T. 2018** Past large earthquakes on the Alpine Fault: paleoseismological progress and future directions. *New Zealand Journal of Geology and Geophysics*, 61(3): 309-328; doi: [10.1080/00288306.2018.1464658](https://doi.org/10.1080/00288306.2018.1464658)
- Howcroft, W.; Cartwright, I.; Morgenstern, U. 2018** Mean transit times in headwater catchments: insights from the Otway Ranges, Australia. *Hydrology and Earth System Sciences*, 22: 635-653; doi: [10.5194/hess-22-635-2018](https://doi.org/10.5194/hess-22-635-2018)
- Hoy, D.; Rosenbaum, G.; Mortimer, N.; Shaanan, U. 2018** Hunter-Bowen deformation in South Percy Island, northeastern Australia. *Australian journal of earth sciences*, 65(2): 175-190; doi: [10.1080/08120099.2018.1419506](https://doi.org/10.1080/08120099.2018.1419506)
- Hu, W.; Huang, R.; McSaveney, M.J.; Zhang, X.; Yao, L.; Shimamoto, T. 2018** Mineral changes quantify frictional heating during a large low-friction landslide. *Geology*, 46(3): 223-226; doi: [10.1130/G39662.1](https://doi.org/10.1130/G39662.1)

- Hu, W.; McSaveney, M.J. 2018** A polished and striated pavement formed by a rock avalanche in under 90 s mimics a glacially striated pavement. *Geomorphology*, 320: 154-161; [doi: 10.1016/j.geomorph.2018.08.011](https://doi.org/10.1016/j.geomorph.2018.08.011)
- Hughes, E.C.; Buse, B.; Kearns, S.L.; Blundy, J.D.; Kilgour, G.N.; Mader, H.M.; Brooker, R.A.; Balzer, R.; Botcharnikov, R.E.; Di Genova, D.; Almeev, R.R.; Riker, J.M. 2018** High spatial resolution analysis of the iron oxidation state in silicate glasses using the electron probe. *American Mineralogist*, 103(9): 1473-1486; [doi: 10.2138/am-2018-6546CCBY](https://doi.org/10.2138/am-2018-6546CCBY)
- Hurst, A.W.; Kilgour, G.N.; Hamling, I.J. 2018** Magmatic triggering of earthquakes on distal faults as a potential medium-term warning signal from Ruapehu volcano. *Geophysical Research Letters*, 45(23): 12,776-12,783; [doi: 10.1029/2018GL080677](https://doi.org/10.1029/2018GL080677)
- Ichihara, H.; Kanehiro, J.; Mogi, T.; Yamaoka, K.; Tada, N.; Bertrand, E.A.; Adashi, M. 2018** A 3D electrical resistivity model around the focal zone of the 2017 southern Nagano Prefecture earthquake (M_{JMA} 5.6): implications for relationship between seismicity and crustal heterogeneity. *Earth, Planets and Space*, 70(1): article no. 182; [doi: 10.1186/s40623-018-0950-1](https://doi.org/10.1186/s40623-018-0950-1)
- Insua-Arevalo, J.M.; Scott, B.J.; Villamor, P. 2018** Grietas, piping y tectónica en Kenia y Nueva Zelanda. *Enseñanza de las ciencias de la tierra*, 26(2): 242-244
- Iwashita, F.; Friedel, M.J.; Ferreira, F.J.F. 2018** A self-organizing map approach to characterize hydrogeology of the fractured Serra-Geral transboundary aquifer. *Hydrology Research*, 49(3): 794-814; [doi: 10.2166/nh.2017.221](https://doi.org/10.2166/nh.2017.221)
- Jamero, J.; Zarrouk, Z.J.; Mroczek, E.K. 2018** Mineral scaling in two-phase geothermal pipelines: two case studies. *Geothermics*, 72: 1-14; [doi: 10.1016/j.geothermics.2017.10.015](https://doi.org/10.1016/j.geothermics.2017.10.015)
- Janku-Capova, L.; Sutherland, R.; Townend, J.; Doan, M.-L.; Massiot, C.; Coussens, J.; Celerier, B. 2018** Fluid flux in fractured rock of the Alpine Fault hanging-wall determined from temperature logs in the DFDP-2B borehole, New Zealand. *Geochemistry Geophysics Geosystems*, 19(8): 2631-2646; [doi: 10.1029/2017GC007317](https://doi.org/10.1029/2017GC007317)
- Jiao, R.; Herman, F.; Beyssac, O.; Adatte, T.; Cox, S.C.; Nelson, F.E.; Neil, H.L. 2018** Erosion of the Southern Alps of New Zealand during the last deglaciation. *Geology*, 46(11): 975-978; [doi: 10.1130/G45160.1](https://doi.org/10.1130/G45160.1)
- Jolly, A.D.; Lokmer, I.; Christenson, B.W.; Thun, J. 2018** Relating gas ascent to eruption triggering for the April 27, 2016, White Island (Whakaari), New Zealand eruption sequence. *Earth, Planets and Space*, 70: article 177; [doi: 10.1186/s40623-018-0948-8](https://doi.org/10.1186/s40623-018-0948-8)

- Kaneko, Y.; Wallace, L.M.; Hamling, I.J.; Gerstenberger, M.C. 2018** Simple physical model for the probability of a subduction-zone earthquake following slow slip events and earthquakes: application to the Hikurangi megathrust, New Zealand. *Geophysical Research Letters*, 45(9): 3932-3941; [doi: 10.1029/2018GL077641](https://doi.org/10.1029/2018GL077641)
- Kaufuss, U.; Lee, D.E.; Wartho, J.-A.; Bowie, E.; Lindqvist, J.K.; Conran, J.G.; Bannister, J.M.; Mildenhall, D.C.; Kennedy, E.M.; Gorman, A.R. 2018** Geology and palaeontology of the Hindon Maar Complex: a Miocene terrestrial fossil *Lagerstätte* in southern New Zealand. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 500: 52-68; [doi: 10.1016/j.palaeo.2018.03.022](https://doi.org/10.1016/j.palaeo.2018.03.022)
- Kearse, J.; Little, T.A.; Van Dissen, R.J.; Barnes, P.M.; Langridge, R.M.; Mountjoy, J.; Ries, W.F.; Villamor, P.; Clark, K.J.; Benson, A.; Lamarche, G.; Hill, M.P.; Hemphill-Haley, M. 2018** Onshore to offshore ground-surface and seabed rupture of the Jordan–Kekerengu–Needles fault network during the 2016 M_w 7.8 Kaikoura earthquake, New Zealand. *Bulletin of the Seismological Society of America*, 108(3B): 1573-1595; [doi: 10.1785/0120170304](https://doi.org/10.1785/0120170304)
- Keller, E.D.; Baisden, W.T.; Bertler, N.A.N.; Emanuelsson, B.D.; Canessa, S.; Phillips, A. 2018** Calculating uncertainty for the RICE ice core continuous flow analysis water isotope record. *Atmospheric Measurement Techniques*, 11(8): 4725-4736; [doi: 10.5194/amt-11-4725-2018](https://doi.org/10.5194/amt-11-4725-2018)
- Kench, P.S.; Ryan, E.J.; Owen, S.; Bell, R.; Lawrence, J.; Glavovic, B.; Blackett, P.; Becker, J.S.; Schneider, P.; Allis, M.; Dickson, M.; Rennie, H.G. 2018** Co-creating resilience solutions to coastal hazards through an interdisciplinary research project in New Zealand. *Journal of coastal research. Special issue*, 85: 1496-1500; [doi: 10.2112/S185-300.1](https://doi.org/10.2112/S185-300.1)
- Kennedy, J.V.; Murmu, P.P.; Leveneur, J.; Williams, G.V.M.; Moody, R.L.; Maity, T.; Chong, S.V. 2018** Enhanced power factor and increased conductivity of aluminium doped zinc oxide thin films for thermoelectric applications. *Journal of nanoscience and nanotechnology*, 18(2): 1384-1387; [doi: 10.1166/jnn.2018.14105](https://doi.org/10.1166/jnn.2018.14105)
- Khajavi, N.; Nicol, A.; Quigley, M.C.; Langridge, R.M. 2018** Temporal slip-rate stability and variations on the Hope Fault, New Zealand, during the late Quaternary. *Tectonophysics*, 738-739: 112-123; [doi: 10.1016/j.tecto.2018.05.001](https://doi.org/10.1016/j.tecto.2018.05.001)
- Kinoshita, C.; Saffer, D.; Kopf, A.; Roesner, A.; Wallace, L.M.; Araki, E.; Kimura, T.; Machida, Y.; Kobayashi, R.; Davis, E.; Toczko, S.; Carr, S. 2018** Changes in physical properties of the Nankai Trough megasplay fault induced by earthquakes, detected by continuous pressure monitoring. *Journal of Geophysical Research. Solid Earth*, 123(2): 1072-1088; [doi: 10.1002/2017JB014924](https://doi.org/10.1002/2017JB014924)

- Kissling, W.M.; Villamor, P.; Ellis, S.M.; Rae, A.J. 2018** Modelling of hydrothermal fluid flow and structural architecture in an extensional basin, Ngakuru Graben, Taupo Rift, New Zealand. *Journal of Volcanology and Geothermal Research*, 357: 134-151; [doi: 10.1016/j.jvolgeores.2018.04.010](https://doi.org/10.1016/j.jvolgeores.2018.04.010)
- Klaucke, I.; Sarkar, S.; Bialas, J.; Berndt, C.; Dannowski, A.; Dumke, I.; Hillman, J.I.T.; Koch, S.; Nodder, S.; Papenberg, C.; von Deimling, J.S. 2018** Giant depressions on the Chatham Rise offshore New Zealand – morphology, structure and possible relation to fluid expulsion and bottom currents. *Marine Geology*, 399: 158-169; [doi: 10.1016/j.margeo.2018.02.011](https://doi.org/10.1016/j.margeo.2018.02.011)
- Klinger, Y.; Okubo, K.; Vallage, A.; Champenois, J.; Delorme, A.; Rougier, E.; Lei, Z.; Knight, E.E.; Munjiza, A.; Satriano, C.; Baize, S.; Langridge, R.M.; Bhat, H.S. 2018** Earthquake damage patterns resolve complex rupture processes. *Geophysical Research Letters*, 45(19): 10,279-10,287; [doi: 10.1029/2018GL078842](https://doi.org/10.1029/2018GL078842)
- Kmoch, A.; Uemaa, E.; Klug, H.; Cameron, S.G. 2018** Enhancing location-related hydrogeological knowledge. *International journal of geographical information science*, 7(4): article 132; [doi: 10.3390/ijgi7040132](https://doi.org/10.3390/ijgi7040132)
- Krumdieck, S.; Gorthy, R.; Land, J.G.; Gardecka, A.J.; Polson, M.I.J.; Boichot, R.; Bishop, C.M.; Kennedy, J.V. 2018** Titania solid thin films deposited by pp-MOCVD exhibiting light photocatalytic activity. *Physica Status Solidi. A, Applications and Materials Science*, 215: article no. 1700578; [doi: 10.1002/pssa.201700578](https://doi.org/10.1002/pssa.201700578)
- Kubota, T.; Saito, T.; Ito, Y.; Kaneko, Y.; Wallace, L.M.; Suzuki, S.; Hino, R.; Henrys, S.A. 2018** Using tsunami waves reflected at the coast to improve offshore earthquake source parameters: application to the 2016 Mw 7.1 Te Araroa earthquake, New Zealand. *Journal of Geophysical Research. Solid Earth*, 123(10): 8767-8779; [doi: 10.1029/2018JB015832](https://doi.org/10.1029/2018JB015832)
- Kwok, A.H.; Paton, D.; Becker, J.S.; Hudson-Doyle, E.E.; Johnston, D.M. 2018** A bottom-up approach to developing a neighbourhood-based resilience measurement framework. *Disaster prevention and management*, 27(2): 255-270; [doi: 10.1108/DPM-07-2017-0169](https://doi.org/10.1108/DPM-07-2017-0169)
- Langer, E.R.; McLennan, J.; Johnston, D.M. 2018** Editorial: special issue on the Port Hills wildfire. *Australasian Journal of Disaster and Trauma Studies*, 22: 29-33
- Langridge, R.M.; Howarth, J.D.; Cox, S.C.; Palmer, J.G.; Sutherland, R. 2018** Frontal fault location and most recent earthquake timing for the Alpine Fault at Whataroa, Westland, New Zealand. *New Zealand Journal of Geology and Geophysics*, 61(3): 329-340; [doi: 10.1080/00288306.2018.1509878](https://doi.org/10.1080/00288306.2018.1509878)

- Langridge, R.M.; Rowland, J.; Villamor, P.; Mountjoy, J.; Townsend, D.B.; Nissen, E.; Madugo, C.; Ries, W.F.; Gasston, C.; Canva, A.; Hatem, A.E.; Hamling, I.J. 2018** Coseismic rupture and preliminary slip estimates for the Papatea Fault and its role in the 2016 M_w 7.8 Kaikoura, New Zealand, earthquake. *Bulletin of the Seismological Society of America*, 108(3B): 1596-1622; doi: [10.1785/0120170336](https://doi.org/10.1785/0120170336)
- Le Gal, M.; Violeau, D.; Ata, R.; Wang, X. 2018** Shallow water numerical models for the 1947 Gisborne and 2011 Tohoku-Oki tsunamis with kinematic seismic generation. *Coastal engineering*, 139: 1-15; doi: [10.1016/j.coastaleng.2018.04.022](https://doi.org/10.1016/j.coastaleng.2018.04.022)
- Lee, J.E.; Brook, E.J.; Bertler, N.A.N.; Buizert, C.; Baisden, W.T.; Blunier, T.; Ciobanu, V.G.; Conway, H.; Dahl-Jensen, D.; Fudge, T.J.; Hindmarsh, R.; Keller, E.D.; Parrenin, F.; Severinghaus, J.P.; Vallelonga, P.; Waddington, E.D.; Winstrup, M. 2018** An 83,000 year old ice core from Roosevelt Island, Ross Sea, Antarctica. *Climate of the past discussions*, doi: [10.5194/cp-2018-68](https://doi.org/10.5194/cp-2018-68)
- Leveueur, J.; Rajan, A.; McDonald-Wharry, J.; Le Guen, M.-J.; Pickering, K.; Kennedy, J.V. 2018** Structural and chemical changes of cellulose fibres under low energy ion implantations. *Surface and Coatings Technology*, 355: 191-199; doi: [10.1016/j.surfcoat.2018.04.006](https://doi.org/10.1016/j.surfcoat.2018.04.006)
- Levy, R.H.; Dunbar, G.B.; Vandergoes, M.J.; Howarth, J.D.; Kingan, T.; Pyne, A.R.; Brotherston, G.; Clarke, M.; Dagg, B.; Hill, M.; Kenton, E.; Little, S.; Mandeno, D.; Moy, C.; Muldoon, P.; Doyle, P.; Raines, C.; Rutland, P.; Strong, D.T.; Terezow, M.; Cochran, L.; Cossu, R.; Fitzsimons, S.; Florindo, F.; Forrest, A.L.; Gorman, A.R.; Kaufman, D.S.; Lee, M.K.; Li, X.; Lurcock, P.; McKay, N.; Nelson, F.; Purdie, J.; Roop, H.A.; Schladow, S.G.; Sood, A.; Upton, P.; Walker, S.L.; Wilson, G.S. 2018** A high-resolution climate record spanning the past 17 000 years recovered from Lake Ohau, South Island, New Zealand. *Scientific Drilling*, 24: 41-50; doi: [10.5194/sd-24-41-2018](https://doi.org/10.5194/sd-24-41-2018)
- Li, J.; Michaliski, G.; Davy, P.K.; Harvey, M.; Katzam, T.; Wilkins, B. 2018** Investigating source contributions of size-aggregated aerosols collected in Southern Ocean and Baring Head, New Zealand using sulfur isotopes. *Geophysical Research Letters*, 45: 3717-3272; doi: [10.1002/2018GL077353](https://doi.org/10.1002/2018GL077353)
- Lin, S.-L.; Uma, S.R.; King, A.B. 2018** Empirical fragility curves for non-residential buildings from the 2010-2011 Canterbury Earthquake Sequence. *Journal of earthquake engineering*, 22(5): 749-777; doi: [10.1080/13632469.2016.1264322](https://doi.org/10.1080/13632469.2016.1264322)

- Litchfield, N.J.; Villamor, P.; Van Dissen, R.J.; Nicol, A.; Barnes, P.M.; Barrell, D.J.A.; Pettinga, J.R.; Langridge, R.M.; Little, T.A.; Mountjoy, J.J.; Ries, W.F.; Rowland, J.; Fenton, C.; Stirling, M.W.; Kears, J.; Berryman, K.R.; Cochran, U.A.; Clark, K.J.; Hemphill-Haley, M.; Khajavi, N.; Jones, K.E.; Archibald, G.C.; Upton, P.; Asher, C.; Benson, A.; Cox, S.C.; Gasston, C.; Hale, D.; Hall, B.; Hatem, A.E.; Heron, D.W.; Howarth, J.D.; Kane, T.J.; Lamarche, G.; Lawson, S.; Lukovic, B.; McColl, S.; Madugo, C.; Manousakis, J.; Noble, D.; Pedley, K.; Sauer, K.; Stahl, T.; Strong, D.T.; Townsend, D.B.; Toy, V.G.; Williams, J.; Woelz, S.; Zinke, R. 2018 Surface rupture of multiple crustal faults in the 2016 M_w 7.8 Kaikoura, New Zealand, earthquake. *Bulletin of the Seismological Society of America*, 108(3B): 1496-1520; [doi: 10.1785/0120170300](https://doi.org/10.1785/0120170300)
- Little, T.A.; Van Dissen, R.J.; Kears, J.; Norton, K.; Benson, A.; Wang, N. 2018 Kekerengu Fault, New Zealand: timing and size of Late Holocene surface ruptures. *Bulletin of the Seismological Society of America*, 108(3B): 1556-1572; [doi: 10.1785/0120170152](https://doi.org/10.1785/0120170152)
- Liu, Y.; Wang, X.; Wu, Z.; He, Z.; Yang, Q. 2018 Simulation of landslide-induced surges and analysis of impact on dam based on stability evaluation of reservoir bank slope. *Landslides*, 15(10): 2031-2045; [doi: 10.1007/s10346-018-1001-5](https://doi.org/10.1007/s10346-018-1001-5)
- Lormand, C.; Zellmer, G.F.; Nemeth, K.; Kilgour, G.N.; Mead, S.; Palmer, A.S.; Sakamoto, N.; Yurimoto, H.; Moebis, A. 2018 Weka trainable segmentation plugin in ImageJ: a semi-automatic tool applied to crystal size distributions of microlites in volcanic rocks. *Microscopy and Microanalysis*, 24(6): 667-675; [doi: 10.1017/S1431927618015428](https://doi.org/10.1017/S1431927618015428)
- Magdalane, C.M.; Kaviyarasu, K.; Raja, A.; Arularasu, M.V.; Mola, G.T.; Isaev, A.B.; Al-Dhabi, N.A.; Arasu, M.V.; Jeyaraj, B.; Kennedy, J.V.; Maaza, M. 2018 Photocatalytic decomposition effect of erbium doped cerium oxide nanostructures driven by visible light irradiation: investigation of cytotoxicity, antibacterial growth inhibition using catalyst. *Journal of photochemistry and photobiology. Section B, Biology*, 185: 275-282; [doi: 10.1016/j.jphotobiol.2018.06.011](https://doi.org/10.1016/j.jphotobiol.2018.06.011)
- Magdalene, C.M.; Kaviyarasu, K.; Matinise, N.; Mayedwa, N.; Mongwaketsi, N.; Letsholathebe, D.; Mola, G.T.; AbdullahAl-Dhabi, N.; Arasu M.V.; Henini, M.; Kennedy, J.V.; Maaza, M.; Jeyaraj, B. 2018 Evaluation on La_2O_3 garlanded ceria heterostructured binary metal oxide nanoplates for UV/visible light induced removal of organic dye from urban wastewater. *South African Journal of Chemical Engineering*, 26: 49-60; [doi: 10.1016/j.sajce.2018.09.003](https://doi.org/10.1016/j.sajce.2018.09.003)
- Mak, S.; Cotton, F.; Gerstenberger, M.C.; Schorlemmer, D. 2018 An evaluation of the applicability of NGA-West2 ground-motion models for Japan and New Zealand. *Bulletin of the Seismological Society of America*, 108(2): 836-856; [doi: 10.1785/0120170146](https://doi.org/10.1785/0120170146)
- Martin, A.P.; Ohneiser, C.; Turnbull, R.E.; Strong, D.T.; Demler, S. 2018 Soil magnetic susceptibility mapping as a pollution and provenance tool: an example from southern New Zealand. *Geophysical Journal International*, 212(2): 1225-1236; [doi: 10.1093/gji/ggx484](https://doi.org/10.1093/gji/ggx484)

- Martin, A.P.; Smellie, J.L.; Cooper, A.F.; Townsend, D.B. 2018** Formation of a spatter-rich pyroclastic density current deposit in a Neogene sequence of trachytic-mafic igneous rocks at Mason Spur, Erebus volcanic province, Antarctica. *Bulletin of Volcanology*, 80: article 13; [doi: 10.1007/s00445-017-1188-7](https://doi.org/10.1007/s00445-017-1188-7)
- Massey, C.I.; Townsend, D.B.; Rathje, E.; Allstadt, K.E.; Lukovic, B.; Kaneko, Y.; Bradley, B.; Wartman, J.; Jibson, R.W.; Petley, D.M.; Horspool, N.A.; Hamling, I.J.; Carey, J.M.; Cox, S.C.; Davidson, J.; Dellow, G.D.; Godt, G.W.; Holden, C.; Jones, K.E.; Kaiser, A.E.; Little, M.; Lyndsell, B.M.; McColl, S.; Morgenstern, R.M.; Rengers, F.K.; Rhoades, D.A.; Rosser, B.J.; Strong, D.T.; Singeisen, C.; Villeneuve, M. 2018** Landslides triggered by the 14 November 2016 Mw 7.8 Kaikoura earthquake, New Zealand. *Bulletin of the Seismological Society of America*, 108(3B): 1630-1648; [doi: 10.1785/0120170305](https://doi.org/10.1785/0120170305)
- Massiot, C.; Célérier, B.; Doan, M.-L.; Little, T.A.; Townend, J.; McNamara, D.D.; Williams, J.; Schmitt, D.R.; Toy, V.G.; Sutherland, R.; Janku-Capova, L.; Upton, P.; Pezard, P.A. 2018** The Alpine Fault hangingwall viewed from within: structural analysis of ultrasonic image logs in the DFDP-2B borehole, New Zealand. *Geochemistry Geophysics Geosystems*, 19(8): 2492-2515; [doi: 10.1029/2017GC007368](https://doi.org/10.1029/2017GC007368)
- McCubbine, J.; Caratori Tontini, F.; Stagpoole, V.M.; Smith, E.; O'Brien, G. 2018** Gsolve, a Python computer program with a graphical user interface to reduce relative gravity survey measurements to absolute gravity values. *SoftwareX*, 7: 129-137; [doi: 10.1016/j.softx.2018.04.003](https://doi.org/10.1016/j.softx.2018.04.003)
- McCubbine, J.C.; Amos, M.J.; Caratori Tontini, F.; Smith, E.; Winefield, R.; Stagpoole, V.M.; Featherstone, W.E. 2018** The New Zealand gravimetric quasigeoid model 2017 that incorporates nationwide airborne gravimetry. *Journal of Geodesy*, 92(8): 923-937; [doi: 10.1007/s00190-017-1103-1](https://doi.org/10.1007/s00190-017-1103-1)
- McDonald, G.W.; Smith, N.J.; Kim, J.-H.; Brown, C.; Buxton, R.; Seville, E. 2018** Economic systems modelling of infrastructure interdependencies for an Alpine Fault earthquake in New Zealand. *Civil Engineering and Environmental Systems*, 35(1-4): 57-80; [doi: 10.1080/10286608.2018.1544627](https://doi.org/10.1080/10286608.2018.1544627)
- McGuire, J.J.; Kaneko, Y. 2018** Directly estimating earthquake rupture area using second moments to reduce the uncertainty in stress drop. *Geophysical Journal International*, 214(3): 2224-2235; [doi: 10.1093/gji/ggy201](https://doi.org/10.1093/gji/ggy201)

- McKay, R.; Exon, N.; Müller, D.; Gohl, K.; Gurnis, M.; Shevenell, A.; Henrys, S.A.; Inagaki, F.; Pandey, D.; Whiteside, J.; van de Fliedert, T.; Naish, T.; Heuer, V.; Morono, Y.; Coffin, M.; Godard, M.; Wallace, L.; Kodaira, S.; Bijl, P.; Collot, J.; Dickens, G.; Dugan, B.; Dunlea, A.G.; Hackney, R.; Ikehara, M.; Jutzeler, M.; McNeill, L.; Naik, S.; Noble, T.; Opdyke, B.; Pecher, I.A.; Stott, L.; Uenzelmann-Neben, G.; Vadakkeykath, Y.; Wortmann, U.G. 2018** Developing community-based scientific priorities and new drilling proposals in the southern Indian and southwestern Pacific oceans. *Scientific Drilling*, 24: 61-70; [doi: 10.5194/sd-24-61-2018](https://doi.org/10.5194/sd-24-61-2018)
- Menzies, C.D.; Wright, S.L.; Craw, D.; James, R.H.; Alt, J.C.; Cox, S.C.; Pitcairn, I.K.; Teagle, D.A.H. 2018** Carbon dioxide generation and drawdown during active orogenesis of siliciclastic rocks in the Southern Alps, New Zealand. *Earth and Planetary Science Letters*, 481: 305-315; [doi: 10.1016/j.epsl.2017.10.010](https://doi.org/10.1016/j.epsl.2017.10.010)
- Micallef, A.; Mountjoy, J.J.; Schwalenberg, K.; Jegen, M.; Weymer, B.A.; Woelz, S.; Gerring, P.; Luebbin, N.; Spatola, D.; Otero, D.C.; Mueller, C. 2018** How offshore groundwater shapes the seafloor. *Eos*, 99: [doi: 10.1029/2018EO090691](https://doi.org/10.1029/2018EO090691)
- Mildenhall, D.C.; Conran, J.G.; Kennedy, E.M.; Lee, D.E.; Bannister, J.M.; Lindqvist, J.K.; Ferguson, D.K. 2018** Palynology of the late Oligocene–early Miocene Newvale Mine, Gore Lignite Measures, Southland, New Zealand. *Palaeontographica. Abteilung B, Palaeophytologie, Palaeobotany, Palaeophytology*, 298(1-3): 23-91; [doi: 10.1127/palb/2018/0060](https://doi.org/10.1127/palb/2018/0060)
- Milicich, S.D.; Chambefort, I.; Wilson, C.J.N.; Charlier, B.L.A.; Tepley, F.J. 2018** The hydrothermal evolution of the Kawerau geothermal system. *Journal of Volcanology and Geothermal Research*, 353: 114-131; [doi: 10.1016/j.jvolgeores.2018.01.012](https://doi.org/10.1016/j.jvolgeores.2018.01.012)
- Milicich, S.D.; Pearson-Grant, S.C.; Alcaraz, S.A.; White, P.A.; Tschritter, C. 2018** 3D Geological modelling of the Taupo Volcanic Zone as a foundation for a geothermal reservoir model. *New Zealand Journal of Geology and Geophysics*, 61(1): 79-95; [doi: 10.1080/00288306.2017.1407346](https://doi.org/10.1080/00288306.2017.1407346)
- Miller, C.A.; Currenti, G.; Hamling, I.J.; Williams-Jones, G. 2018** Mass transfer processes in a post eruption hydrothermal system: parameterisation of microgravity changes at Te Maari craters, New Zealand. *Journal of Volcanology and Geothermal Research*, 357: 39-55; [doi: 10.1016/j.jvolgeores.2018.04.005](https://doi.org/10.1016/j.jvolgeores.2018.04.005)
- Miller, C.A.; Kang, S.G.; Fournier, D.; Hill, G. 2018** Distribution of vapor and condensate in a hydrothermal system: insights from self-potential inversion at Mount Tongariro, New Zealand. *Geophysical Research Letters*, 45(16): 8190-8198; [doi: 10.1029/2018GL078780](https://doi.org/10.1029/2018GL078780)
- Mortimer, N. 2018** Evidence for a pre-Eocene proto-Alpine Fault through Zealandia. *New Zealand Journal of Geology and Geophysics*, 61(3): 251-259; [doi: 10.1080/00288306.2018.1434211](https://doi.org/10.1080/00288306.2018.1434211)

- Mountjoy, J.J.; Howarth, J.D.; Orpin, A.R.; Barnes, P.M.; Bowden, D.A.; Rowden, A.A.; Schimel, A.C.G.; Holden, C.; Horgan, H.J.; Nodder, S.D.; Patton, J.R.; Lamarche, G.; Gerstenberger, M.C.; Micallef, A.; Pallentin, A.; Kane, T. 2018** Earthquakes drive large-scale submarine canyon development and sediment supply to deep-ocean basins. *Science Advances*, 4(3): eaar3748; [doi: 10.1126/sciadv.aar3748](https://doi.org/10.1126/sciadv.aar3748)
- Mulia, I.E.; Gusman, A.R.; Hossen, M.J.; Satake, K. 2018** Adaptive tsunami source inversion using optimizations and the reciprocity principle. *Journal of Geophysical Research. Solid Earth*, 123(12): P. 10,749-10,760; [doi: 10.1029/2018JB016439](https://doi.org/10.1029/2018JB016439)
- Naafs, B.D.A.; Rohrssen, M.; Inglis, G.N.; Lähteenoja, O.; Feakins, S.J.; Collinson, M.E.; Kennedy, E.M.; Singh, P.K.; Singh, M.P.; Lunt, D.J.; Pancost, R.D. 2018** High temperatures in the terrestrial mid-latitudes during the early Palaeogene. *Nature geoscience*, 11: 766-771; [doi: 10.1038/s41561-018-0199-0](https://doi.org/10.1038/s41561-018-0199-0)
- Nathan, B.; Lauvaux, T.; Turnbull, J.C.; Gurney, K. 2018** Investigations into the use of multi-species measurements for source apportionment of the Indianapolis fossil fuel CO₂ signal. *Elementa: Science of the Anthropocene*, 6(1): article 21; [doi: 10.1525/elementa.131](https://doi.org/10.1525/elementa.131)
- Nathan, B.J.; Lauvaux, T.; Turnbull, J.C.; Richardson, S.J.; Miles, N.L.; Gurney, K.R. 2018** Source sector attribution of CO₂ emissions using an urban CO/CO₂ Bayesian inversion system. *Journal of Geophysical Research. Atmospheres*, 123(23): 13,611-13,621; [doi: 10.1029/2018JD029231](https://doi.org/10.1029/2018JD029231)
- Nathan, S. 2018** Alexander McKay: New Zealand's first scientific photographer. *Tuhinga*, 29: 35-49
- Nicol, A.; Childs, C. 2018** Cataclasis and silt smear on normal faults in weakly lithified turbidites. *Journal of Structural Geology*, 117: 44-57; [doi: 10.1016/j.jsg.2018.06.017](https://doi.org/10.1016/j.jsg.2018.06.017)
- Nicol, A.; Khajavi, N.; Pettinga, J.R.; Fenton, C.; Stahl, T.; Bannister, S.; Pedley, K.; Hyland-Brock, N.; Bushell, T.; Hamling, I.J.; Ristau, J.; Noble, D.; McColl, S.T. 2018** Preliminary geometry, displacement, and kinematics of fault ruptures in the epicentral region of the 2016 M_w 7.8 Kaikoura, New Zealand, earthquake. *Bulletin of the Seismological Society of America*, 108(3B): 1521-1539; [doi: 10.1785/0120170329](https://doi.org/10.1785/0120170329)
- Nicol, A.; Van Dissen, R.J. 2018** A 6000-year record of surface-rupturing paleoearthquakes on the Wairau Fault, New Zealand. *New Zealand Journal of Geology and Geophysics*, 61(3): 341-358; [doi: 10.1080/00288306.2018.1498360](https://doi.org/10.1080/00288306.2018.1498360)
- Oliverio, A.M.; Power, J.F.; Washburne, A.; Cary, S.C.; Stott, M.B.; Fierer, N. 2018** The ecology and diversity of microbial eukaryotes in geothermal springs. *The ISME journal*, 12(8): 1918-1928; [doi: 10.1038/s41396-018-0104-2](https://doi.org/10.1038/s41396-018-0104-2)

- Orchiston, C.; Mitchell, J.; Wilson, T.; Langridge, R.M.; Davies, T.; Bradley, B.; Johnston, D.M.; Davies, A.; Becker, J.S.; McKay, A. 2018** Project AF8: developing a coordinated, multi-agency response plan for a future great Alpine Fault earthquake. *New Zealand Journal of Geology and Geophysics*, 61(3): 389-402; [doi: 10.1080/00288306.2018.1455716](https://doi.org/10.1080/00288306.2018.1455716)
- Otero, R.A.; O'Gorman, J.P.; Moisle, W.L.; Terezow, M.; McKee, J. 2018** A juvenile *Tuarangisaurus keyesi* Wiffen and Moisle 1986 (Plesiosauria, Elasmosauridae) from the Upper Cretaceous of New Zealand, with remarks on its skull ontogeny. *Cretaceous research*, 85: 214-231; [doi: 10.1016/j.cretres.2017.09.007](https://doi.org/10.1016/j.cretres.2017.09.007)
- Palcsu, L.; Morgenstern, U.; Sültenfuss, J.; Koltai, G.; László, E.; Temovski, M.; Major, Z.; Nagy, J.T.; Papp, L.; Varlam, C.; Faurescu, I.; Túri, M.; Rinyu, L.; Czuppon, G.; Bottyán, E.; Jull, J.T. 2018** Modulation of cosmogenic tritium in meteoric precipitation by the 11-year cycle of solar magnetic field activity. *Scientific Reports*, 8: article 12813; [doi: 10.1038/s41598-018-31208-9](https://doi.org/10.1038/s41598-018-31208-9)
- Panya Panya, S.N.; Galmed, A.H.; Maaza, M.; Mothudi, B.M.; Harith, M.A.; Kennedy, J.V. 2018** Laser-Induced Breakdown Spectroscopy (LIBS) on geological samples: compositional differentiation. *MRS Advances*, 3(34-35): 1969-1983; [doi: 10.1557/adv.2018.401](https://doi.org/10.1557/adv.2018.401)
- Patriat, M.; Collot, J.; Etienne, S.; Poli, S.; Clerc, C.; Mortimer, N.; Pattier, F.; Juan, C.; Roest, W.R.; VESPA scientific voyage team 2018** New Caledonia obducted Peridotite Nappe: offshore extent and implications for obduction and post-obduction processes. *Tectonics*, 37(4): 1077-1096; [doi: 10.1002/2017TC004722](https://doi.org/10.1002/2017TC004722)
- Pattyn, F.; Ritz, C.; Hanna, E.; Asay-Davis, X.; DeConto, R.; Durand, G.; Favier, L.; Fettweis, X.; Goelzer, H.; Golledge, N.R.; Kuipers Munneke, P.; Lenaerts, J.T.M.; Nowicki, S.; Payne, A.J.; Robinson, A.; Seroussi, H.; Trusel, L.D.; van den Broeke, M. 2018** The Greenland and Antarctic ice sheets under 1.5 °C global warming. *Nature Climate Change*, 8(12): 1053-1061; [doi: 10.1038/s41558-018-0305-8](https://doi.org/10.1038/s41558-018-0305-8)
- Pearson-Grant, S.C.; Franz, P.; Clearwater, J. 2018** Gravity measurements as a calibration tool for geothermal reservoir modelling. *Geothermics*, 73: 146-157; [doi: 10.1016/j.geothermics.2017.06.006](https://doi.org/10.1016/j.geothermics.2017.06.006)
- Peiffer, L.; Núñez, G.C.; Mazot, A.; Villanueva-Estrada, R.; Inguaggiato, C.; Romero, R.B.; Miller, R.R.; Rojas, J.H. 2018** Soil degassing at the Los Humeros geothermal field (Mexico). *Journal of Volcanology and Geothermal Research*, 356: 163-174; [doi: 10.1016/j.jvolgeores.2018.03.001](https://doi.org/10.1016/j.jvolgeores.2018.03.001)
- Peng, Z.; Fry, B.; Chao, K.; Yao, D.; Meng, X.; Jolly, A.D. 2018** Remote triggering of microearthquakes and tremor in New Zealand following the 2016 M_w 7.8 Kaikoura earthquake. *Bulletin of the Seismological Society of America*, 108(3B): 1784-1793; [doi: 10.1785/0120170327](https://doi.org/10.1785/0120170327)

- Potter, S.H.; Kreft, P.V.; Milojev, P.V.; Noble, C.; Montz, B.; Dhellemmes, A.; Woods, R.J.; Gauden-Ing, S. 2018** The influence of impact-based severe weather warnings on risk perceptions and intended protective actions. *International Journal of Disaster Risk Reduction*, 30A: 34-43; [doi: 10.1016/j.ijdr.2018.03.031](https://doi.org/10.1016/j.ijdr.2018.03.031)
- Power, J.F.; Carere, C.R.; Lee, C.K.; Wakerley, G.L.J.; Evans, D.W.; Button, M.; White, D.; Climo, M.D.; Hinze, A.M.; Morgan, X.C.; McDonald, I.R.; Cary, S.C.; Stott, M.B. 2018** Microbial biogeography of 925 geothermal springs in New Zealand. *Nature communications*, 9: article 2876; [doi: 10.1038/s41467-018-05020-y](https://doi.org/10.1038/s41467-018-05020-y)
- Prebble, J.G.; Hinojosa, J.L.; Moy, C.M. 2018** Palynofacies assemblages reflect sources of organic matter in New Zealand fjords. *Continental shelf research*, 154: 19-25; [doi: 10.1016/j.csr.2017.12.009](https://doi.org/10.1016/j.csr.2017.12.009)
- Pyne, R.L.; Keller, E.D.; Canessa, S.; Bertler, N.A.N.; Pyne, A.R.; Mandeno, D.; Vallelonga, P.; Semper, S.; Kjaer, H.; Hutchinson, E.; Baisden, W.T. 2018** A novel approach to process brittle ice for continuous flow analysis of stable water isotopes. *Journal of glaciology*, 64(244): 289-299; [doi: 10.1017/jog.2018.19](https://doi.org/10.1017/jog.2018.19)
- Rattenbury, M.S.; Martin, A.P.; Baisden, W.T.; Turnbull, R.E.; Rogers, K.M. 2018** Geochemical baseline soil surveys for understanding element and isotope variation across New Zealand. *New Zealand journal of agricultural research*, 61(3): 347-357; [doi: 10.1080/00288233.2018.1426616](https://doi.org/10.1080/00288233.2018.1426616)
- Rattenbury, M.S.; Vidanovich, P. 2018** The aeromagnetic expression of New Zealand's Alpine Fault: regional displacement and entrainment of igneous rock. *New Zealand Journal of Geology and Geophysics*, 61(3): 272-282; [doi: 10.1080/00288306.2018.1464031](https://doi.org/10.1080/00288306.2018.1464031)
- Reddy, Y.S.; Magdalene, C.M.; Kaviyarasu, K.; Mola, G.T.; Kennedy, J.V.; Maaza, M. 2018** Equilibrium and kinetic studies of the adsorption of acid blue 9 and Safranin O from aqueous solutions by MgO decked FLG coated Fuller's earth. *Journal of Physics and Chemistry of Solids*, 123: 43-51; [doi: 10.1016/j.jpics.2018.07.009](https://doi.org/10.1016/j.jpics.2018.07.009)
- Reeves, R.R.; Wilke, M.; Cashmore, P.; Macdonald, N.; Thompson, K. 2018** Physical and ecological effects of rehabilitating the geothermally influenced Waikite Wetland, New Zealand. *Journal of environmental management*, 228: 279-291
- Reyners, M.E. 2018** Impacts of Hikurangi Plateau subduction on the origin and evolution of the Alpine Fault. *New Zealand Journal of Geology and Geophysics*, 61(3): 260-271; [doi: 10.1080/00288306.2018.1454481](https://doi.org/10.1080/00288306.2018.1454481)
- Reysenbach, A.-L.; Donaho, J.A.; Hinsch, T.M.; Kelley, J.F.; Kouba, K.; Podar, M.; Stott, M.B. 2018** Draft genome sequence of a novel *Thermofilum* sp. strain from a New Zealand hot spring enrichment culture. *Genome Announcements*, 6(8): e00005-18; [doi: 10.1128%2FgenomeA.00005-18](https://doi.org/10.1128%2FgenomeA.00005-18)

- Rhoades, D.A.; Christophersen, A.; Gerstenberger, M.C.; Liukis, M.; Silva, F.; Marzocchi, W.; Werner, M.J.; Jordan, T.H. 2018** Highlights from the first ten years of the New Zealand Earthquake Forecast Center. *Seismological Research Letters*, 89(4): 1229-1237; doi: [10.1785/0220180032](https://doi.org/10.1785/0220180032)
- Riedel, M.; Crutchley, G.J.; Koch, S.; Berndt, C.; Bialas, J.; Eisenberg-Klein, G.; Prüßmann, J.; Papenberg, C.; Klaeschen, D. 2018** Elongate fluid flow structures: stress control on gas migration at Opouawe Bank, New Zealand. *Marine and Petroleum Geology*, 92: 913-931; doi: [10.1016/j.marpetgeo.2018.03.029](https://doi.org/10.1016/j.marpetgeo.2018.03.029)
- Ring, U.; Mortimer, N.; Butz, C.; Bernet, M. 2018** Extensional deformation along the Footwall Fault below the Hyde-Macraes Shear Zone, Otago Schist, New Zealand. *New Zealand Journal of Geology and Geophysics*, 61(2): 219-236; doi: [10.1080/00288306.2018.1467471](https://doi.org/10.1080/00288306.2018.1467471)
- Rogers, J.J.; MacKenzie, K.J.D.; Trompeter, W.J. 2018** New phosphors synthesised by ion exchange of a metakaolin-based geopolymer. *Applied Clay Science*, 157: 1-7; doi: [10.1016/j.clay.2018.02.025](https://doi.org/10.1016/j.clay.2018.02.025)
- Rotzien, J.R.; Browne, G.H.; King, P.R. 2018** Geochemical, petrographic, and U–Pb geochronological evidence for multi-sourced poly-cyclic provenance of deep-water strata in a hybrid tectonic setting: The upper Miocene upper Mount Messenger Formation, Taranaki Basin, New Zealand. *AAPG Bulletin*, 102(9): 1763-1802; doi: [10.1306/0206181616817222](https://doi.org/10.1306/0206181616817222)
- Roy, S.; Upton, P.; Craw, D. 2018** Gold in the hills: patterns of placer gold accumulation under dynamic tectonic and climatic conditions. *Mineralium deposita*, 53(7): 981-995; doi: [10.1007/s00126-017-0789-6](https://doi.org/10.1007/s00126-017-0789-6)
- Sangiorgi, F.; Bijl, P.K.; Passchier, S.; Salzmann, U.; Schouten, S.; McKay, R.; Cody, R.D.; Pross, J.; van de Fliert, T.; Bohaty, S.M.; Levy, R.H.; Williams, T.; Escutia, C.; Brinkhuis, H. 2018** Southern Ocean warming and Wilkes Land ice sheet retreat during the mid-Miocene. *Nature communications*, 9(1): article no. 317; doi: [10.1038/s41467-017-02609-7](https://doi.org/10.1038/s41467-017-02609-7)
- Schaefer, L.N.; Kennedy, B.M.; Villeneuve, M.C.; Cook, S.C.W.; Jolly, A.D.; Keys, H.J.R.; Leonard, G.S. 2018** Stability assessment of the Crater Lake/Te Wai-a-moe overflow channel at Mt. Ruapehu (New Zealand), and implications for volcanic lake break-out triggers. *Journal of Volcanology and Geothermal Research*, 358: 31-44; doi: [10.1016/j.jvolgeores.2018.06.011](https://doi.org/10.1016/j.jvolgeores.2018.06.011)

- Schmidt, A.R.; Kaulfuss, U.; Bannister, J.M.; Baranov, V.; Beimforde, C.; Bleile, N.; Borkent, A.; Busch, A.; Conran, J.G.; Engel, M.S.; Harvey, M.; Kennedy, E.M.; Kerr, P.H.; Keltunen, E.; Kiecksee, A.P.; Lengeling, F.; Lindqvist, J.K.; Maraun, M.; Mildenhall, D.C.; Perrichot, V.; Rikkinen, J.; Sadowski, E.-M.; Seyfullah, L.J.; Stebner, F.; Szwedo, J.; Ulbrich, P.; Lee, D.E. 2018 Amber inclusions from New Zealand. *Gondwana research*, 56: 135-146; doi: [10.1016/j.gr.2017.12.003](https://doi.org/10.1016/j.gr.2017.12.003)
- Schorlemmer, D.; Werner, M.J.; Marzocchi, W.; Jordan, T.H.; Ogata, Y.; Jackson, D.D.; Mak, S.; Rhoades, D.A.; Gerstenberger, M.C.; Hirata, N.; Liukis, M.; Maechling, P.J.; Strader, A.; Taroni, M.; Wiemer, S.; Zechar, J.D.; Zhuang, J. 2018 The Collaboratory for the Study of Earthquake Predictability: achievements and priorities. *Seismological Research Letters*, 89(4): 1305-1313; doi: [10.1785/0220180053](https://doi.org/10.1785/0220180053)
- Scott, G.H. 2018 Clinal variation in aperture shape in Southwest Pacific *Globorotalia partimlabiata* and its ancestor about the time of the Middle Miocene Climatic Transition. *Marine micropaleontology*, 141: 1-9; doi: [10.1016/j.marmicro.2018.02.001](https://doi.org/10.1016/j.marmicro.2018.02.001)
- Seward, A.M.; Ashraf, S.; Reeves, R.R.; Bromley, C.J. 2018 Improved environmental monitoring of surface geothermal features through comparisons of thermal infra-red, satellite remote sensing and terrestrial calorimetry. *Geothermics*, 73: 60-73; doi: [10.1016/j.geothermics.2018.01.007](https://doi.org/10.1016/j.geothermics.2018.01.007)
- Seward, A.M.; Prieto, A.M. 2018 Determining thermal rock properties of soils in Canterbury, New Zealand, Comparisons between long-term in-situ temperature profiles and Divided Bar measurements. *Renewable energy*, 118: 546-554; doi: [10.1016/j.renene.2017.11.050](https://doi.org/10.1016/j.renene.2017.11.050)
- Shaanan, U.; Rosenbaum, G.; Hoy, D.; Mortimer, N. 2018 Late Paleozoic geology of the Queensland Plateau (offshore northeastern Australia). *Australian journal of earth sciences*, 28(3): 357-366; doi: [10.1080/08120099.2018.1426041](https://doi.org/10.1080/08120099.2018.1426041)
- Shakun, J.D.; Corbett, L.B.; Bierman, P.R.; Underwood, K.; Rizzo, D.M.; Zimmerman, S.R.; Caffee, M.W.; Naish, T.R.; Golledge, N.R.; Hay, C.C. 2018 Minimal East Antarctic Ice Sheet retreat onto land during the past eight million years. *Nature*, 558(7709): 284-287; doi: [10.1038/s41586-018-0155-6](https://doi.org/10.1038/s41586-018-0155-6)
- Shugar, D.H.; Clague, J.J.; McSaveney, M.J. 2018 Late Holocene activity of Sherman and Sheridan glaciers, Prince William Sound, Alaska. *Quaternary Science Reviews*, 194: 116-127; doi: [10.1016/j.quascirev.2018.07.016](https://doi.org/10.1016/j.quascirev.2018.07.016)
- Shumaker, L.E.; Sharman, G.R.; King, P.R.; Graham, S.A. 2018 The source is in the sink: deep-water deposition by a submarine volcanic arc, Taranaki Basin, New Zealand. *Sedimentology*, 65(7): 2506-2530; doi: [10.1111/sed.12475](https://doi.org/10.1111/sed.12475)
- Simpson, M.P.; Rae, A.J. 2018 Short-wave infrared (SWIR) reflectance spectrometric characterisation of clays from geothermal systems of the Taupo Volcanic Zone, New Zealand. *Geothermics*, 73: 74-90; doi: [10.1016/j.geothermics.2018.01.006](https://doi.org/10.1016/j.geothermics.2018.01.006)

- Sirisena, K.; Daughney, C.J.; Moreau, M.; Sim, D.A.; Lee, C.K.; Cary, S.C.; Ryan, K.G.; Chambers, G.K. 2018** Bacterial bioclusters relate to hydrochemistry in New Zealand groundwater. *FEMS Microbiology Ecology*, 94(11): article fiy170; [doi: 10.1093/femsec/fiy170](https://doi.org/10.1093/femsec/fiy170)
- Sreekanth, J.; Moore, C.R. 2018** Novel patch modelling method for efficient simulation and prediction uncertainty analysis of multi-scale groundwater flow and transport processes. *Journal of Hydrology*, 559: 122-135; [doi: 10.1016/j.jhydrol.2018.02.028](https://doi.org/10.1016/j.jhydrol.2018.02.028)
- Stenger, R.; Clague, J.C.; Morgenstern, U.; Clough, T.J. 2018** Vertical stratification of redox conditions, denitrification and recharge in shallow groundwater on a volcanic hillslope containing relict organic matter. *Science of the Total Environment*, 639: 1205-1219; [doi: 10.1016/j.scitotenv.2018.05.122](https://doi.org/10.1016/j.scitotenv.2018.05.122)
- Stewart, J.P.; Zimmaro, P.; Lanzo, G.; Mazzoni, S.; Ausilio, E.; Aversa, S.; Bozzoni, F.; Cairo, R.; Capatti, M.C.; Castiglia, M.; Chiabrando, F.; Chiaradonna, A.; D'Onofrio, A.; Dashti, S.; De Risi, R.; De Silva, F.; Della Pasqua, F.; Dezi, F.; Di Domenica, A.; Di Sarno, L.; Durante, M.G.; Falcucci, E.; Foti, S.; Franke, K.W.; Galadini, F.; Giallini, S.; Gori, S.; Kayen, R.E.; Kishida, T.; Lingua, A.; Lingwall, B.; Mucciacciaro, M.; Pagliaroli, A.; Passeri, F.; Pelekis, P.; Pizzi, A.; Reimschiessel, B.; Santo, A.; De Magistris, F.S.; Scasserra, G.; Sextos, A.; Sica, S.; Silvestri, F.; Simonelli, A.L.; Spanò, A.; Tommasi, P.; Tropeano, G. 2018** Reconnaissance of 2016 Central Italy earthquake sequence. *Earthquake Spectra*, 34(4): 1547-1555; [doi: 10.1193/080317EQS151M](https://doi.org/10.1193/080317EQS151M)
- Stewart, L.C.; Houghton, K.M.; Carere, C.R.; Power, J.F.; Chambefort, I.; Stott, M.B. 2018** Interaction between ferruginous clay sediment and an iron-reducing hyperthermophilic *Pyrobaculum* sp. in a terrestrial hot spring. *FEMS Microbiology Ecology*, 94(11): article fiy160; [doi: 10.1093/femsec/fiy160](https://doi.org/10.1093/femsec/fiy160)
- Stewart, L.C.; Stucker, V.K.; Stott, M.B.; de Ronde, C.E.J. 2018** Marine-influenced microbial communities inhabit terrestrial hot springs on a remote island volcano. *Extremophiles*, 22(4): 687-698; [doi: 10.1007/s00792-018-1029-4](https://doi.org/10.1007/s00792-018-1029-4)
- Stewart, M.K.; Morgenstern, U.; Tsujimura, M.; Gusyev, M.A.; Sakakibura, K.; Imaizumi, Y.; Rutter, H.; van der Raaij, R.W.; Etheridge, Z.; Scott, L.; Cox, S.C. 2018** Mean residence times and sources of Christchurch springs. *Journal of Hydrology, New Zealand*, 57(2): 81-94
- Stewart, S.D.; Hamilton, D.P.; Baisden, W.T.; Verburg, P.; Duggan, I.C. 2018** The role of mobile consumers in lake nutrient cycles: a brief review. *Hydrobiologia*, 818(1): 11-29; [doi: 10.1007/s10750-018-3603-2](https://doi.org/10.1007/s10750-018-3603-2)
- Stirling, M.W.; Gerstenberger, M.C. 2018** Applicability of the Gutenberg-Richter relation for major active faults in New Zealand. *Bulletin of the Seismological Society of America*, 108(2): 718-728; [doi: 10.1785/0120160257](https://doi.org/10.1785/0120160257)

- Stratford, W.R.; Sutherland, R.; Collot, J. 2018** Physical properties and seismic-reflection interpretation of bathyal marine sediments affected by carbonate and silica diagenesis in the Tasman Sea. *New Zealand Journal of Geology and Geophysics*, 61(1): 96-111; [doi: 10.1080/00288306.2017.1414065](https://doi.org/10.1080/00288306.2017.1414065)
- Strong, D.T.; Turnbull, R.E.; Markwitz, A. 2018** Managing hazardous materials in New Zealand's National Petrology Reference Collection. *New Zealand Journal of Geology and Geophysics*, 61(4): 562-569; [doi: 10.1080/00288306.2018.1495238](https://doi.org/10.1080/00288306.2018.1495238)
- Tanioka, Y.; Gusman, A.R. 2018** Near-field tsunami inundation forecast method assimilating ocean bottom pressure data: a synthetic test for the 2011 Tohoku-oki tsunami. *Physics of the Earth and Planetary Interiors*, 283: 82-91; [doi: 10.1016/j.pepi.2018.08.006](https://doi.org/10.1016/j.pepi.2018.08.006)
- Tape, C.; Holtkamp, S.; Silwal, V.; Hawthorne, J.; Kaneko, Y.; Ampuero, J.P.; Ji, C.; Ruppert, N.; Smith, K.; West, M.E. 2018** Earthquake nucleation and fault slip complexity in the lower crust of central Alaska. *Nature geoscience*, 11: 536-541; [doi: 10.1038/s41561-018-0144-2](https://doi.org/10.1038/s41561-018-0144-2)
- Taylor, A.L.; Kox, T.; Johnston, D.M. 2018** Communicating high impact weather: improving warnings and decision making processes. *International Journal of Disaster Risk Reduction*, 30(A): 1-4; [doi: 10.1016/j.ijdr.2018.04.002](https://doi.org/10.1016/j.ijdr.2018.04.002)
- Taylor, K.W.R.; Willumsen, P.S.; Hollis, C.J.; Pancost, R.D. 2018** South Pacific evidence for the long-term climate impact of the Cretaceous/Paleogene boundary event. *Earth-Science Reviews*, 179: 287-302; [doi: 10.1016/j.earscirev.2018.02.012](https://doi.org/10.1016/j.earscirev.2018.02.012)
- Taylor, R.J.; Massey, C.I.; Fuller, I.C.; Marden, M.; Archibald, G.C.; Ries, W.F. 2018** Quantifying sediment connectivity in an actively eroding gully complex, Waipaoa catchment, New Zealand. *Geomorphology*, 307: 24-37; [doi: 10.1016/j.geomorph.2017.10.007](https://doi.org/10.1016/j.geomorph.2017.10.007)
- Temtime, T.; Biggs, J.; Lewi, E.; Hamling, I.J.; Wright, T.; Ayele, A. 2018** Spatial and temporal patterns of deformation at the Tendaho geothermal prospect, Ethiopia. *Journal of Volcanology and Geothermal Research*, 357: 56-67; [doi: 10.1016/j.jvolgeores.2018.04.004](https://doi.org/10.1016/j.jvolgeores.2018.04.004)
- Till, C.B.; Pritchard, M.; Miller, C.A.; Brugman, K.K.; Ryan-Davis, J. 2018** Super-volcanic investigations. *Nature geoscience*, 11(4): 227-229; [doi: 10.1038/s41561-018-0100-1](https://doi.org/10.1038/s41561-018-0100-1)
- Tipler, K.; Tarrant, R.; Tuffin, K.; Johnston, D.M. 2018** Learning from experience: emergency response in schools. *Natural hazards*, 90(3): 1237-1257; [doi: 10.1007/s11069-017-3094-x](https://doi.org/10.1007/s11069-017-3094-x)

- Todd, E.K.; Schwartz, S.Y.; Mochizuki, K.; Wallace, L.M.; Sheehan, A.F.; Webb, S.C.; Williams, C.A.; Nakai, J.; Yancey, J.; Fry, B.; Henrys, S.A.; Ito, Y. 2018** Earthquakes and tremor linked to seamount subduction during shallow slow slip at the Hikurangi Margin, New Zealand. *Journal of Geophysical Research. Solid Earth*, 123(8): 6769-6783; [doi: 10.1029/2018JB016136](https://doi.org/10.1029/2018JB016136)
- Trompeter, W.J.; Boulic, M.; Ancelet, T.; Garcia-Ramirez, J.C.; Davy, P.K.; Wang, Y.; Phipps, R. 2018** The effect of ventilation on air particulate matter in school classrooms. *Journal of Building Engineering*, 18: 164-171; [doi: 10.1016/j.jobbe.2018.03.009](https://doi.org/10.1016/j.jobbe.2018.03.009)
- Turnbull, R.E.; van der Meer, Q.H.A.; Tulloch, A.J.; Ramezani, J.; Whitehouse, M.J.; Andersen, T.H.; Waight, T.E. 2018** Recognition of mid-Paleozoic volcanism in New Zealand. *New Zealand Journal of Geology and Geophysics*, 61(4): 413-427; [doi: 10.1080/00288306.2018.1469513](https://doi.org/10.1080/00288306.2018.1469513)
- Upton, P.; Cochran, U.A.; Orchiston, C.; Howarth, J.D.; Pettinga, J.; Townend, J. 2018** Tercentenary of the 1717 AD Alpine Fault earthquake: advances in science and understanding hazards. *New Zealand Journal of Geology and Geophysics*, 61(3): 247-250; [doi: 10.1080/00288306.2018.1512389](https://doi.org/10.1080/00288306.2018.1512389)
- Upton, P.; Koons, P.O.; Roy, S.G. 2018** Rock failure and erosion of a fault damage zone as a function of rock properties: Alpine Fault at Waikukupa River. *New Zealand Journal of Geology and Geophysics*, 61(3): 367-375; [doi: 10.1080/00288306.2018.1430592](https://doi.org/10.1080/00288306.2018.1430592)
- Upton, P.; Song, B.R.; Koons, P.O. 2018** Topographic control on shallow fault structure and strain partitioning near Whataroa, New Zealand demonstrates weak Alpine Fault. *New Zealand Journal of Geology and Geophysics*, 61(1): 1-8; [doi: 10.1080/00288306.2017.1397706](https://doi.org/10.1080/00288306.2017.1397706)
- van den Bos, V.; Rees, A.; Newnham, R.; Vandergoes, M.J.; Wilmshurst, J.; Augustinus, P. 2018** Holocene temperature, humidity and seasonality in northern New Zealand linked to Southern Hemisphere summer insolation. *Quaternary Science Reviews*, 201: 77-88; [doi: 10.1016/j.quascirev.2018.10.008](https://doi.org/10.1016/j.quascirev.2018.10.008)
- van der Meer, Q.H.A.; Waight, T.E.; Tulloch, A.J.; Whitehouse, M.J.; Andersen, T. 2018** Magmatic evolution during the Cretaceous transition from subduction to continental break-up of the Eastern Gondwana margin (New Zealand) documented by *in-situ* zircon O-Hf isotopes and bulk-rock Sr-Nd isotopes. *Journal of Petrology*, 59(5): 849-880; [doi: 10.1093/petrology/egy047](https://doi.org/10.1093/petrology/egy047)
- Van Houtte, C.; Denolle, M. 2018** Improved model fitting for the empirical Green's function approach using hierarchical models. *Journal of Geophysical Research. Solid Earth*, 123(4): 2923-2942; [doi: 10.1002/2017JB014943](https://doi.org/10.1002/2017JB014943)

- Van Houtte, C.; Ktenidou, O.-J.; Larkin, T.; Holden, C. 2018** A continuous map of near-surface S-wave attenuation in New Zealand. *Geophysical Journal International*, 213(1): 408-425; [doi: 10.1093/gji/ggx559](https://doi.org/10.1093/gji/ggx559)
- Van Houtte, C.; Larkin, T.; Holden, C. 2018** On durations, peak factors, and nonstationary corrections in seismic hazard applications of random vibration theory. *Bulletin of the Seismological Society of America*, 108(1): 418-436; [doi: 10.1785/0120170076](https://doi.org/10.1785/0120170076)
- Vandergoes, M.J.; Howarth, J.D.; Dunbar, G.B.; Turnbull, J.C.; Roop, H.A.; Levy, R.H.; Li, X.; Prior, C.A.; Norris, M.W.; Keller, E.D.; Baisden, W.T.; Ditchburn, R.G.; Fitzsimons, S.J.; Bronk Ramsey, C. 2018** Integrating chronological uncertainties for laminated lake sediments. *Quaternary Science Reviews*, 188: 104-120; [doi: 10.1016/j.quascirev.2018.03.015](https://doi.org/10.1016/j.quascirev.2018.03.015)
- Vaux, F.; Trewick, S.A.; Crampton, J.S.; Marshall, B.A.; Beu, A.G.; Hills, S.F.K.; Morgan-Richards, M. 2018** Evolutionary lineages of marine snails identified using molecular phylogenetics and geometric morphometric analysis of shells. *Molecular Phylogenetics and Evolution*, 127: 626-637; [doi: 10.1016/j.ympev.2018.06.009](https://doi.org/10.1016/j.ympev.2018.06.009)
- Veliz, V.; Mouslopoulou, V.; Nicol, A.; Fassoulas, C.; Begg, J.G.; Oncken, O. 2018** Millennial to million year normal-fault interactions in the forearc of a subduction margin, Crete, Greece. *Journal of Structural Geology*, 113: 225-241; [doi: 10.1016/j.jsg.2018.05.019](https://doi.org/10.1016/j.jsg.2018.05.019)
- Verma, M.P.; van Geldern, R.; Barth, J.A.C.; Monvoisin, G.; Rogers, K.M.; Grassa, F.; Carrizo, D.; Huertas, A.D.; Kretzschmar, T.; Villeneuve-Estrada, R.E.; Godoy, J.M.; Mostapa, R.; Cortés, H.A.D. 2018** Inter-laboratory test for oxygen and hydrogen stable isotope analyses of geothermal fluids: assessment of reservoir fluid compositions. *Rapid Communications in Mass Spectrometry*, 32(20): 1799-1810; [doi: 10.1002/rcm.8233](https://doi.org/10.1002/rcm.8233)
- Vimont, I.J.; Turnbull, J.C.; Petrenko, V.V.; Place, P.F.; Sweeney, C.; Miles, N.; Richardson, S.; Vaughn, B.H.; White, J.W.C. 2018** Stable isotope measurements confirm volatile organic compound oxidation as a major urban summertime source of carbon monoxide in Indianapolis, USA. *Atmospheric chemistry and physics discussions*; [doi: 10.5194/acp-2018-506](https://doi.org/10.5194/acp-2018-506)
- Waghorn, K.A.; Pecher, I.A.; Strachan, L.J.; Crutchley, G.J.; Bialas, J.; Coffin, R.; Davy, B.W.; Koch, S.; Kroeger, K.F.; Papenberg, C.; Rose, P.; Sarkar, S. 2018** Paleo-fluid expulsion and contouritic drift formation on the Chatham Rise, New Zealand. *Basin research*, 30(1): 5-19; [doi: 10.1111/bre.12237](https://doi.org/10.1111/bre.12237)
- Wallace, L.M.; Hreinsdottir, S.; Ellis, S.M.; Hamling, I.J.; D'Anastasio, E.; Denys, P. 2018** Triggered slow slip and afterslip on the southern Hikurangi subduction zone following the Kaikoura earthquake. *Geophysical Research Letters*, 45(10): 4710-4718; [doi: 10.1002/2018GL077385](https://doi.org/10.1002/2018GL077385)

- Wang, Y.; Satake, K.; Maeda, T.; Gusman, A.R. 2018** Data assimilation with dispersive tsunami model: a test for the Nankai Trough. *Earth, Planets and Space*, 70(1): article 131; doi: [10.1186/s40623-018-0905-6](https://doi.org/10.1186/s40623-018-0905-6)
- Warren-Smith, E.; Fry, B.; Kaneko, Y.; Chamberlain, C.J. 2018** Foreshocks and delayed triggering of the 2016 M_w 7.1 Te Araroa earthquake and dynamic reinvigoration of its aftershock sequence by the M_w 7.8 Kaikoura earthquake, New Zealand. *Earth and Planetary Science Letters*, 482: 265-276; doi: [10.1016/j.epsl.2017.11.020](https://doi.org/10.1016/j.epsl.2017.11.020)
- Waugh, S.M.; Griffiths, J.W.; Poupart, T.A.; Filippi, D.P.; Rogers, K.M.; Arnoud, Y.P. 2018** Environmental factors and fisheries influence the foraging patterns of a subtropical seabird, the Westland Petrel (*Procellaria westlandica*), in the Tasman Sea. *The Condor*, 120(2): 371-387; doi: [10.1650/CONDOR-17-179.1](https://doi.org/10.1650/CONDOR-17-179.1)
- Webber, S.; Ellis, S.M.; Fagereng, Å. 2018** "Virtual shear box" experiments of stress and slip cycling within a subduction interface mélange. *Earth and Planetary Science Letters*, 488: 27-35; doi: [10.1016/j.epsl.2018.01.035](https://doi.org/10.1016/j.epsl.2018.01.035)
- Wei, M.; Kaneko, Y.; Shi, P.; Liu, Y. 2018** Numerical modeling of dynamically triggered shallow slow slip events in New Zealand by the 2016 M_w 7.8 Kaikoura earthquake. *Geophysical Research Letters*, 45(10): 4764-4772; doi: [10.1002/2018GL077879](https://doi.org/10.1002/2018GL077879)
- Wen, Y.-Y.; Ma, K.-F.; Fry, B. 2018** Multiple-fault, slow rupture of the 2016 M_w 7.8 Kaikoura, New Zealand, earthquake: complementary insights from teleseismic and geodetic data. *Bulletin of the Seismological Society of America*, 108(3B): 1774-1783; doi: [10.1785/0120170285](https://doi.org/10.1785/0120170285)
- Westerhoff, R.S.; White, P.A.; Miguez-Macho, G. 2018** Application of an improved global-scale groundwater model for water table estimation across New Zealand. *Hydrology and Earth System Sciences*, 22(12): 6449-6472; doi: [10.5194/hess-22-6449-2018](https://doi.org/10.5194/hess-22-6449-2018)
- Westerhoff, R.S.; White, P.A.; Rawlinson, Z.J. 2018** Incorporation of satellite data and uncertainty in a nationwide groundwater recharge model in New Zealand. *Remote Sensing*, 10(1): article no. 58; doi: [10.3390/rs10010058](https://doi.org/10.3390/rs10010058)
- White, J.T. 2018** A model-independent iterative ensemble smoother for efficient history-matching and uncertainty quantification in very high dimensions. *Environmental Modelling & Software*, 109: 191-201; doi: [10.1016/j.envsoft.2018.06.009](https://doi.org/10.1016/j.envsoft.2018.06.009)
- White, P.A. 2018** Efficiency measures for water management. *Journal of Hydrology, New Zealand*, 57(2): 95-105
- Wijeyekoon, S.; Carere, C.R.; West, M.; Nath, S.; Gapes, D. 2018** Mixed culture polyhydroxyalkanoate (PHA) synthesis from nutrient rich wet oxidation liquors. *Water research*, 140: 1-11; doi: [10.1016/j.watres.2018.04.017](https://doi.org/10.1016/j.watres.2018.04.017)

- Williams, C.A.; Peng, Z.; Zhang, Y.; Fukuyama, E.; Goebel, T.; Yoder, M.R. 2018** Earthquakes and multi-hazards around the Pacific Rim, Vol. II: Introduction. *Pure and Applied Geophysics*, 175(2): 525-528; doi: [10.1007/s00024-018-1805-1](https://doi.org/10.1007/s00024-018-1805-1)
- Williams, C.A.; Wallace, L.M. 2018** The impact of realistic elastic properties on inversions of shallow subduction interface slow slip events using seafloor geodetic data. *Geophysical Research Letters*, 45(15): 7462-7470; doi: [10.1029/2018GL078042](https://doi.org/10.1029/2018GL078042)
- Williams, G.V.M.; Kennedy, J.V.; Murmu, P.P.; Rubanov, S. 2018** Structural and magnetic properties of near surface superparamagnetic Ni_{1-x}Fe_x nanoparticles in SiO₂ formed by low energy dual ion implantation with different fluences. *Applied Surface Science*, 449: 399-404; doi: [10.1016/j.apsusc.2018.01.277](https://doi.org/10.1016/j.apsusc.2018.01.277)
- Williams, G.V.M.; Prakash, T.; Kennedy, J.V.; Chong, S.V.; Rubanov, S. 2018** Spin-dependent tunnelling in magnetite nanoparticles. *Journal of Magnetism and Magnetic Materials*, 460: 229-233; doi: [10.1016/j.jmmm.2018.04.017](https://doi.org/10.1016/j.jmmm.2018.04.017)
- Williams, J.N.; Barrell, D.J.A.; Stirling, M.W.; Sauer, K.M.; Duke, G.C.; Hao, K.X. 2018** Surface rupture of the Hundalee fault during the 2016 *M_w* 7.8 Kaikoura earthquake. *Bulletin of the Seismological Society of America*, 108(3B): 1540-1555; doi: [10.1785/0120170291](https://doi.org/10.1785/0120170291)
- Williams, J.N.; Toy, V.G.; Massiot, C.; McNamara, D.D.; Smith, S.A.F.; Mills, S. 2018** Controls on fault zone structure and brittle fracturing in the foliated hanging wall of the Alpine Fault. *Solid Earth*, 9(2): 469-489; doi: [10.5194/se-9-469-2018](https://doi.org/10.5194/se-9-469-2018)
- Williams, S.; Zhang, T.; Chagué, C.; Williams, J.; Goff, J.; Lane, E.M.; Bind, J.; Qasim, I.; Thomas, K.-L.; Mueller, C.; Hampton, S.; Borella, J. 2018** Sedimentary and geochemical signature of the 2016 Kaikoura tsunami at Little Pigeon Bay: a depositional benchmark for the Banks Peninsula region, New Zealand. *Sedimentary Geology*, 369: 60-70; doi: [10.1016/j.sedgeo.2018.03.013](https://doi.org/10.1016/j.sedgeo.2018.03.013)
- Wushke, S.; Fristensky, B.; Zhang, X.L.; Spicer, V.; Krokhin, O.V.; Levin, D.B.; Stott, M.B.; Sparling, R. 2018** A metabolic and genomic assessment of sugar fermentation profiles of the thermophilic Thermotogales, *Fervidobacterium pennivorans*. *Extremophiles*, 22(6): 965-974; doi: [10.1007/s00792-018-1053-4](https://doi.org/10.1007/s00792-018-1053-4)
- Xu, B.; Aitken, E.J.; Baker, B.P.; Turner, C.A.; Harvey, J.E.; Stott, M.B.; Power, J.F.; Harris, P.W.R.; Keyzers, R.A.; Brimble, M.A. 2018** Genome mining, isolation, chemical synthesis and biological evaluation of a novel lanthipeptide, tikitericin, from the extremophilic microorganism *Thermogemmatispora* strain T81. *Chemical Science*, 9(37): 7311-7317; doi: [10.1039/C8SC02170H](https://doi.org/10.1039/C8SC02170H)

- Xu, X.; Sandwell, D.T.; Bassett, D. 2018** A spectral expansion approach for geodetic slip inversion: implications for the downdip rupture limits of oceanic and continental megathrust earthquakes. *Geophysical Journal International*, 22(1): 400-411; [doi: 10.1093/gji/ggx408](https://doi.org/10.1093/gji/ggx408)
- Yuan, Y.; Zhang, W.; Zhang, Y.; Liu, Z.; Shao, S.; Zhou, L.; Rogers, K.M. 2018** Differentiating organically farmed rice from conventional and green rice harvested from an experimental field trial using stable isotopes and multi-element chemometrics. *Journal of agricultural and food chemistry*, 66(11): 2607-2615; [doi: 10.1021/acs.jafc.7b05422](https://doi.org/10.1021/acs.jafc.7b05422)
- Zhang, M.; McSaveney, M.J. 2018** Is air pollution causing landslides in China? *Earth and Planetary Science Letters*, 481: 284-289; [doi: 10.1016/j.epsl.2017.10.045](https://doi.org/10.1016/j.epsl.2017.10.045)
- Zhang, M.; McSaveney, M.J.; Shao, H.; Zhang, C. 2018** The 2009 Jiweishan rock avalanche, Wulong, China: Precursor conditions and factors leading to failure. *Engineering Geology*, 233: 225-230; [doi: 10.1016/j.enggeo.2017.12.010](https://doi.org/10.1016/j.enggeo.2017.12.010)
- Zhou, S.; Davy, P.K.; Huang, M.; Duan, J.; Wang, X.; Fan, Q.; Chang, M.; Liu, Y.; Chen, W.; Xie, S.; Ancelet, T.; Trompeter, W.J. 2018** High-resolution sampling and analysis of ambient particulate matter in the Pearl River Delta region of southern China: source apportionment and health risk implications. *Atmospheric chemistry and physics*, 18(3): 2049-2064; [doi: 10.5194/acp-18-2049-2018](https://doi.org/10.5194/acp-18-2049-2018)

Peer-Reviewed Books/Chapters in Books

- Becker, J.S.; Leonard, G.S.; Potter, S.H.; Coomer, M.A.; Paton, D.; Wright, K.C.; Johnston, D.M. 2018** Organisational response to the 2007 Ruapehu Crater Lake dam-break lahar in New Zealand: use of communication in creating effective response. p. 253-269; [doi: 10.1007/11157_2016_38](https://doi.org/10.1007/11157_2016_38) In: Fearnley, C.J.; Bird, D.K.; Jolly, G.E.; Haynes, K.; McGuire, B. (eds.) *Observing the volcano world: volcano crisis communication*. Cham, Switzerland: Springer. *Advances in volcanology*
- Bender-Whitaker, C.; Marsaglia, K.M.; Browne, G.H.; Jaeger, J.M. 2018** Sedimentary processes and sequence stratigraphy of a Quaternary siliciclastic shelf-slope system: Insights from sand provenance studies, Canterbury Basin, New Zealand. [doi: 10.1130/2018.2540\(08\)](https://doi.org/10.1130/2018.2540(08)) In: Ingersoll, R.V.; Lawton, T.F.; Schweickert, R.A.; Graham, S.A. (eds) *Tectonics, sedimentary basins, and provenance: a celebration of the career of William R. Dickinson*. McLean, Va.: Geological Society of America. *Geological Society of America special paper 540*
- Clark, K.J. 2018** The 2016 M_w Kaikoura earthquake and tectonic deformation of the Kaikoura coastline. p. 3-6 In: Hendtlass, C.; Borrero, J.; Neale, D.; Shand, T. (eds) *Shaky shores: coastal impacts & responses to the 2016 Kaikoura earthquakes*. Wellington, N.Z.: New Zealand Coastal Society.

- Crutchley, G.J.; Kopp, H. 2018** Reflection and refraction seismic methods. p. 43-62; [doi: 10.1007/978-3-319-57852-1_4](https://doi.org/10.1007/978-3-319-57852-1_4) In: Micallef, A.; Krastel, S.; Savini, A. (eds) *Submarine geomorphology*. Cham, Switzerland: Springer International. Springer geology
- Fagereng, Å.; Diener, J.F.A.; Ellis, S.M.; Remitti, F. 2018** Fluid-related deformation processes at the up- and downdip limits of the subduction thrust seismogenic zone: what do the rocks tell us? p. 187-215; [doi: 10.1130/2018.2534\(12\)](https://doi.org/10.1130/2018.2534(12)) In: Byrne, T.; Underwood, M.B.; Fisher, D.; McNeill, L.; Saffer, D.; Ujiie, K.; Yamaguchi, A. (eds) *Geology and tectonics of subduction zones: a tribute to Gaku Kimura*. Boulder, Colo.: Geological Society of America.
- Fearnley, C.J.; Bird, D.K.; Haynes, K.; McGuire, W.J.; Jolly G.E. 2018** Volcano crisis communication: where do we go from here? p. 751-754; [doi: 10.1007/11157_2017_27](https://doi.org/10.1007/11157_2017_27) In: Fearnley, C.J.; Bird, D.K.; Jolly, G.E.; Haynes, K.; McGuire, B. (eds.) *Observing the volcano world: volcano crisis communication*. Cham, Switzerland: Springer. *Advances in volcanology*
- Fitzgerald, R.H.; Kennedy, B.M.; Wilson, T.M.; Leonard, G.S.; Tsunematsu, K.; Keys, H. 2018** The communication and risk management of volcanic ballistic hazards. p. 121-148; [doi: 10.1007/11157_2016_35](https://doi.org/10.1007/11157_2016_35) In: Fearnley, C.J.; Bird, D.K.; Jolly, G.E.; Haynes, K.; McGuire, B. (eds.) *Observing the volcano world: volcano crisis communication*. Cham, Switzerland: Springer. *Advances in volcanology*
- Fitzsimons, S.J.; Howarth, J.D. 2018** Glaciolacustrine processes. p. 309-334; [doi: 10.1016/B978-0-08-100524-8.00009-9](https://doi.org/10.1016/B978-0-08-100524-8.00009-9) In: Menzies, J.; van der Meer, J.J.M. (eds) *Past glacial environments*. 2nd ed. Amsterdam: Elsevier.
- Hunt, T.M. 2018** Geothermal field and reservoir monitoring. p. 119-139; [doi: 10.1007/978-1-4939-7510-5_298](https://doi.org/10.1007/978-1-4939-7510-5_298) In: Bronicki, L.Y. (ed) *Power stations using locally available energy sources*. New York, N.Y.: Springer.
- Hunt, T.M. 2018** Geothermal resources: environmental aspects. p. 141-160; [doi: 10.1007/978-1-4939-7510-5_838](https://doi.org/10.1007/978-1-4939-7510-5_838) In: Bronicki, L.Y. (ed) *Power stations using locally available energy sources*. New York, N.Y.: Springer.
- Jolly, G.E.; Fearnley, C.J. 2018** Part two summary: observing volcanic crises. p. 411-414; [doi: 10.1007/11157_2017_25](https://doi.org/10.1007/11157_2017_25) In: Fearnley, C.J.; Bird, D.K.; Jolly, G.E.; Haynes, K.; McGuire, B. (eds.) *Observing the volcano world: volcano crisis communication*. Cham, Switzerland: Springer. *Advances in volcanology*
- Lukawski, M.; Tester, J.W.; Bendall, B.; Goldstein, B.; Hiriart, G.; Gutierrez-Negrin, L.; Bertani, R.; Bromley, C.J.; Huenges, E.; Ragnarsson, A.; Mongillo, M.; Lund, J.W.; Rybach, L.; Zui, V.; Muraoka, H. 2018** Geothermal energy, nature, use and expectations. p. 35-46; [doi: 10.1007/978-1-4939-7510-5_309](https://doi.org/10.1007/978-1-4939-7510-5_309) In: Bronicki, L.Y. (ed) *Power stations using locally available energy sources*. New York, N.Y.: Springer.

- Massey, C.I.; Hancox, G.T.; Page, M.J. 2018** TXT-tool 1.064-1.1 field guide for the identification and assessment of landslide and erosion features and related hazards affecting pipelines. p. 209-232; [doi: 10.1007/978-3-319-57774-6_16](https://doi.org/10.1007/978-3-319-57774-6_16) In: Sassa, K.; Guzzetti, F.; Yamagishi, H.; Arbanas, Z.; Casagli, N.; McSaveney, M.J.; Dang, K. (eds) *Landslide dynamics: ISDR-ICL Landslide Interactive Teaching Tools. Volume 1: Fundamentals, mapping and monitoring*. Cham, Switzerland: Springer International Publishing.
- Nathan, S. 2018** Wiffen, Joan. web page In: *Te ara: the encyclopedia of New Zealand*. Wellington: Ministry for Culture and Heritage.
- Planke, S.; Svensen, H.; Myklebust, R.; Bannister, S.; Manton, B.; Lorenz, L. 2018** Geophysics and remote sensing. p. 131-146; [doi: 10.1007/11157_2014_6](https://doi.org/10.1007/11157_2014_6) In: Breitzkreuz, C.; Rocchi, S. (eds) *Physical geology of shallow magmatic systems: dykes, sills and laccoliths*. Cham, Switzerland: Springer. *Advances in volcanology*
- Potter, S.H.; Scott, B.J.; Fearnley, C.J.; Leonard, G.S.; Gregg, C.E. 2018** Challenges and benefits of standardising early warning systems: a case study of New Zealand's Volcanic Alert Level system. p. 601-620; [doi: 10.1007/11157_2017_18](https://doi.org/10.1007/11157_2017_18) In: Fearnley, C.J.; Bird, D.K.; Jolly, G.E.; Haynes, K.; McGuire, B. (eds.) *Observing the volcano world: volcano crisis communication*. Cham, Switzerland: Springer. *Advances in volcanology*
- Power, W.L.; Wang, X.; Wallace, L.M.; Clark, K.J.; Mueller, C. 2018** The New Zealand Probabilistic Tsunami Hazard Model: development and implementation of a methodology for estimating tsunami hazard nationwide. p. 199-217; [doi: 10.1144/SP456.6](https://doi.org/10.1144/SP456.6) In: Scource, E.M.; Chapman, N.A.; Tappin, D.R.; Wallis, S.R. (eds) *Tsunamis: geology, hazards and risks*. London: Geological Society. *Geological Society special publication 456*
- Ristau, J. 2018** Rapid tsunami warning within five minutes for regional resources. p. 33-61 In: Barberopoulou, A. (ed.) *Tsunamis: detection, risk assessment and crisis management*. Hauppauge, N.Y.: Nova Science Publisher's Inc. *Natural disaster research, prediction and mitigation*
- Sigmundsson, F.; Parks, M.; Pedersen, R.; Jónsdóttir, K.; Ófeigsson, B.G.; Grapenthin, R.; Dumont, S.; Einarsson, P.; Drouin, V.; Heimisson, E.R.; Hjartardóttir, A.R.; Guðmundsson, M.; Geirsson, H.; Hreinsdóttir, S.; Sturkell, E.; Hooper, A.; Högnadóttir, Þ.; Vogfjörð, K.; Barnie, T.; Roberts, M.J. 2018** Magma movements in volcanic plumbing systems and their associated ground deformation and seismic patterns. p. 285-322; [doi: 10.1016/B978-0-12-809749-6.00011-X](https://doi.org/10.1016/B978-0-12-809749-6.00011-X) In: Burchardt, S. (ed.) *Volcanic and igneous plumbing systems: understanding magma transport, storage, and evolution in the Earth's crust*. Elsevier: Amsterdam, Netherlands.

Stewart, C.; Wilson, T.M.; Sword-Daniels, V.; Wallace, K.L.; Magill, C.R.; Horwell, C.J.; Leonard, G.S.; Baxter, P.J. 2018 Communication demands of volcanic ashfall events. p. 23-50; [doi: 10.1007/11157_2016_19](https://doi.org/10.1007/11157_2016_19) In: Fearnley, C.J.; Bird, D.K.; Jolly, G.E.; Haynes, K.; McGuire, B. (eds.) *Observing the volcano world: volcano crisis communication*. Cham, Switzerland: Springer. *Advances in volcanology*

Thompson, M.A.; Lindsay, J.M.; Leonard, G.S. 2018 More than meets the eye: volcanic hazard map design and visual communication. p. 621-640; [doi: 10.1007/11157_2016_35](https://doi.org/10.1007/11157_2016_35) In: Fearnley, C.J.; Bird, D.K.; Jolly, G.E.; Haynes, K.; McGuire, B. (eds.) *Observing the volcano world: volcano crisis communication*. Cham, Switzerland: Springer. *Advances in volcanology*

Refereed Conference Proceedings/Paper

Abeling, S.; Vallis, S.; Galvez, F.; Ingham, J.M.; Goded, T.; Horspool, N.A.; Giovinazzi, S. 2018 Seismic screening of Anglican churches in the Waikato and Taranaki regions of New Zealand. Paper O4A.2 In: *From Inangahua to Kaikoura and beyond: NZSEE Conference 2018, 13-15 April 2018, Auckland, New Zealand*. Wellington, N.Z.: New Zealand Society for Earthquake Engineering.

Abeling, S.R.; Cutfield, M.; Dizhur, D.D.; Horspool, N.A.; Johnston, D.M.; Ingham, J.M. 2018 Casualty estimation from falling masonry debris based on 2010/2011 Canterbury earthquake damage. p. 267-282 In: Milani, G.; Taliercio, A.; Garrity, S. (eds) *10th International Masonry Conference, IMC 2018, Milan, Italy, 9 July 2018 through 11 July 2018*. Whyteleafe, U.K.: International Masonry Society.

Abeling, S.R.; Vallis, S.; Goded, T.; Giovinazzi, S.; Ingham, M.M. 2018 Seismic risk assessment of New Zealand URM church inventory. p. 15-31 In: Masia, M.; Alterman, D.; Totoev, Y.; Page, A. (eds) *Proceedings of the 10th Australasian Masonry Conference: masonry today and tomorrow*.

Almond, P.; Giona Bucci, M.; Smith, C.; Villamor, P.; Ries, W.F.; Tuttle, M.; Stringer, M.; Hodge, M.; Watson, M. 2018 Geologic influence on patterns of liquefaction ejecta. Paper O2B.1 In: *From Inangahua to Kaikoura and beyond: NZSEE Conference 2018, 13-15 April 2018, Auckland, New Zealand*. Wellington, N.Z.: New Zealand Society for Earthquake Engineering.

Ardid, A.; Dempsey, D.; Bertrand, E.A.; Archer, R. 2018 Uncertain estimation of subsurface temperature away from the borehole using magnetotelluric inversions. Paper 111 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.

Blair, A.; Dunstall, M.; Carey, B.S.; Siratovich, P.A. 2018 Beyond baseload: the future of geothermal. Paper 98 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.

- Brathwaite, R.L.; Gazley, M.F.; Christie, A.B. 2018** Stratigraphy, mineralogy and provenance of the sand sequence at Waikato North Head, south Auckland. p. 71-78 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Brathwaite, R.L.; Novak, B. 2018** Zeolites at Ngakuru in the Taupo Volcanic Zone and their use as environmental minerals. p. 79-88 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Bromley, C.J. 2018** The role of advanced geophysical monitoring in improved resource expansion and make-up drilling strategy. paper 80 In: *Proceedings, 43rd Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, February 12-14, 2018*. Stanford, Calif.: Stanford University.
- Bromley, C.J.; Carey, B.S. 2018** Wairakei-Tauhara, New Zealand: a two-part story on 60 years of geophysical monitoring and direct geothermal use. 11 p. In: *The 12th Asian Geothermal Symposium, 9-12 November 2018, Daejeon, Korea*. [Bonn, Germany]: International Geothermal Association.
- Bromley, C.J.; Mannington, W.; Sepulveda, F.; McDowell, J.; Seward, A.M.; Lucas, A. 2018** Review of geophysical monitoring at Wairakei-Tauhara: what has been learnt? Paper 122 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Carey, B.S.; Stephenson, C.; Blair, A. 2018** Over 60 years of direct geothermal use at Wairakei - Tauhara and growing stronger Paper 65 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Carey, J.M.; Massey, C.I.; Rosser, B.J.; Lyndsell, B.M.; Cosgrove, B.; Norton, K. 2018** Laboratory simulations of debris flow slide mechanisms in Wellington fill slopes, New Zealand. 4 p. In: *Second JTC1 Workshop, 3 to 5 December 2018, Hong Kong*. Hong Kong: Organising Committee.
- Chandramohan, R.; Horspool, N.A.; Bradley, B.A. 2018** Duration of earthquake ground motion anticipated at sites in New Zealand. Paper O4B.3 In: *From Inangahua to Kaikoura and beyond: NZSEE Conference 2018, 13-15 April 2018, Auckland, New Zealand*. Wellington, N.Z.: New Zealand Society for Earthquake Engineering.
- Chiaro, G.; Umar, M.; Kiyota, T.; Massey, C.I. 2018** The Takanodai landslide, Kumamoto, Japan: insights from post-earthquake field observations, laboratory tests, and numerical analyses. p. 98-111 In: Brandenberg, S.J.; Manzari, M.T. (eds) *Geotechnical Earthquake Engineering and Soil Dynamics V: slope stability and landslides, laboratory testing, and in*

situ testing. Reston, Va.: American Society of Civil Engineers. *Geotechnical special publication 293*

- Crawford, M.H.; Saunders, W.S.A.; Hudson-Doyle, E.E.H.; Johnston, D.M. 2018** End-user perceptions and use of natural hazard risk modelling across policy making, land use planning, and emergency management within New Zealand local government. p. 550-560 In: Stock, K.; Bunker, D. (eds) *Proceedings of the Information Systems for Crisis Response and Management Asia Pacific 2018 Conference: innovating for resilience: 5-7 November, Wellington, New Zealand*. [Auckland, N.Z.]: Massey University.
- Durance, P.M.J.; Hill, M.P.; Turnbull, R.E.; Morgenstern, R.; Rattenbury, M.S. 2018** Nickel and cobalt mineral potential in New Zealand. p. 117-123 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Gazley, M.F.; Martin, A.P.; Turnbull, R.E.; Frontin-Rollet, G.; Strong, D.T. 2018** Vectors to orogenic-style mineralisation in southern New Zealand using standardised and transformed chemistry in soil. p. 137-143 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Gorman, A.R.; Fletcher, P.; Baker, D.; Crutchley, G.J.; Henrys, S.A.; Fraser, D. 2018** Characterisation of focused gas hydrate accumulations from the Pegasus Basin, New Zealand, using high-resolution and conventional seismic data. 4 p.; [doi: 10.1071/ASEG2018abT7_2A](https://doi.org/10.1071/ASEG2018abT7_2A) In: *1st Australasian Exploration Geoscience Conference: exploration, innovation, integration, 18-21 February 2018, Sydney, Australia*. Sydney, N.S.W.: Australian Institute of Geoscientists. *ASEG Extended Abstracts 2018(1)*
- Hill, M.P. 2018** Aggregate opportunity modelling: understanding our resource and planning for the future. p. 155-162 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Hill, M.P.; Smillie, R.W.; Ritchie, T.; Mason, A.; Stephens, S. 2018** Evaluating historic exploration data from the Carrick Goldfield to make informed exploration decisions. p. 163-169 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Hoffmann, J.; Gorman, A.; Crutchley, G.J. 2018** Investigation of possible shallow gas accumulations associated with pockmarks on the Otago slope southeast of New Zealand. p. 1-7; [doi: 10.1071/ASEG2018abT7_1A](https://doi.org/10.1071/ASEG2018abT7_1A) In: *1st Australasian Exploration Geoscience Conference: exploration, innovation, integration, 18-21 February 2018, Sydney, Australia*. Sydney, N.S.W.: Australian Institute of Geoscientists. *ASEG Extended Abstracts 2018(1)*

- Hudson-Doyle, E.E.; Paton, D.; Johnston, D.M. 2018** Reflections on the communication of uncertainty : developing decision-relevant information. p. 166-189 In: Stock, K.; Bunker, D. (eds) *Proceedings of the Information Systems for Crisis Response and Management Asia Pacific 2018 Conference: innovating for resilience: 5-7 November, Wellington, New Zealand*. [Auckland, N.Z.]: Massey University.
- Huggins, T.J.; Hill, S.R.; Peace, R.M.; Johnston, D.M. 2018** Extending ecological rationality: catching the high balls of disaster management. p. 295-309 In: Stock, K.; Bunker, D. (eds) *Proceedings of the Information Systems for Crisis Response and Management Asia Pacific 2018 Conference: innovating for resilience: 5-7 November, Wellington, New Zealand*. [Auckland, N.Z.]: Massey University.
- Hurst, A.W.; Christenson, B.W.; Sealing, C. 2018** Self-potential changes around the discharging fumarole zero on White Island volcano. Paper 64 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Imtiaz, S.Y.; Prasanna, R.; Uma, S.R.; Stock, K.; Blake, D. 2018** A design science based simulation framework for critical infrastructure interdependency. p. 516-524 In: Stock, K.; Bunker, D. (eds) *Proceedings of the Information Systems for Crisis Response and Management Asia Pacific 2018 Conference: innovating for resilience: 5-7 November, Wellington, New Zealand*. [Auckland, N.Z.]: Massey University.
- Imtiaz, S.Y.; Uma, S.R.; Prasanna, R. 2018** A simulation framework to model interdependencies between electricity and road infrastructure networks. Paper P2.18 In: *From Inangahua to Kaikoura and beyond: NZSEE Conference 2018, 13-15 April 2018, Auckland, New Zealand*. Wellington, N.Z.: New Zealand Society for Earthquake Engineering.
- Kahandawa, K.A.R.V.D.; Domingo, N.D.; Park, K.S.; Uma, S.R. 2018** Earthquake damage estimation systems: literature review. p. 622-628; [doi: 10.1016/j.proeng.2018.01.080](https://doi.org/10.1016/j.proeng.2018.01.080) In: Amaratung, D.; Haigh, R. (eds) *7th International Conference on Building Resilience: using scientific knowledge to inform policy and practice in disaster risk reduction*. Amsterdam: Elsevier. *Energy procedia* 212
- Kissling, W.M.; Massiot, C. 2018** Modelling flows in discrete fracture networks derived from a New Zealand lava-hosted geothermal system. Paper 123 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Lin, S.-L.; King, A.B.; Horspool, N.A.; Sadashiva, V.K.; Paulik, R.; Williams, S. 2018** Field data collection framework development and applications. Paper O3C.4 In: *From Inangahua to Kaikoura and beyond: NZSEE Conference 2018, 13-15 April 2018, Auckland, New Zealand*. Wellington, N.Z.: New Zealand Society for Earthquake Engineering.

- Macdonald, N.; Reeves, R.R.; Graham, D.J.; Brakenrig, T. 2018** Obtaining water level data in complex and dangerous geothermal environments using UAV photogrammetry. Paper 69 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Martin, A.P.; Allibone, A.H.; Blakemore, H.; Blundell, C.C.; Cox, S.C.; Craw, D.; Doyle, S.; MacKenzie, D.J.; Mortimer, N.; Rattenbury, M.S.; Ritchie, T.; Smillie, R.W.; Smith Lyttle, B.; Stephens, S. 2018** A new 1:50,000 scale map and GIS dataset of the Hyde-Macraes Shear Zone. p. 211-220 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Martindale, H.; van der Raaij, R.W.; Morgenstern, U. 2018** Measuring actual denitrification to understand nitrogen loads through aquifers. 5 p. In: Currie, L.D.; Christensen, C.L. *Farm environment planning: science, policy and practice: 31st annual FLRC Workshop held at Massey University, February 2018*. Palmerston North, N.Z.: Fertilizer and Lime Research Centre, Massey University. *Occasional report 31*
- McBride, S.K.; Michael, A.; Wein, A.M.; Hardebeck, J.; Becker, J.S.; Potter, S.H.; Perry, S.; Page, M.T.; Gerstenberger, M.C.; Field, N.; van der Elst, N. 2018** Developing earthquake forecast templates for fast and effective communication. paper 001627 In: *11th National Conference on Earthquake Engineering: integrating science, engineering & policy, June 25-29, 2018*. Oakland, Calif.: Earthquake Engineering Research Institute.
- McBride, S.K.; Wein, A.M.; Becker, J.S.; Potter, S.H.; Hudson-Doyle, E.E. 2018** An evidence-based approach for supporting scientists communicating earthquake forecasts. paper 001454 In: *11th National Conference on Earthquake Engineering: integrating science, engineering & policy, June 25-29, 2018*. Oakland, Calif.: Earthquake Engineering Research Institute.
- McLean, K.; McDowell, J.; Sepulveda, F.; Seastres, J.; Zarrouk, S.J.; Alcaraz, S.A. 2018** Upflow along a basement fault revealed by geothermal numerical pressure transient analysis. Paper 013 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Milicich, S.D.; Massiot, C.; McNamara, D.D. 2018** Volcanic texture identification and influence on permeability using a borehole resistivity image log in the Whakamaru Group ignimbrite, Wairakei Geothermal Field, New Zealand. paper 48 In: *Proceedings, 43rd Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, February 12-14, 2018*. Stanford, Calif.: Stanford University.
- Morgenstern, R.; Turnbull, R.E.; Hill, M.P.; Durance, P.M.J.; Rattenbury, M.S. 2018** Rare earth element mineral potential in New Zealand: a mineral systems approach. p. 243-251 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.

- Morgenstern, R.; Turnbull, R.E.; Hill, M.P.; Durance, P.M.J.; Rattenbury, M.S.; Smillie, R.W. 2018** New Zealand's clean technology mineral potential. p. 235-241 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Pearson-Grant, S.C.; Burnell, J.G.; Doorman, P.; Barber, J. 2018** Modelling the Tauranga low temperature geothermal system. Paper 97 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Pereira, T.; Potgieter, J.; Kennedy, J.V.; Mukhtar, A.; Fry, M. 2018** The effect of reheating layers in metal additive manufacturing on the external surface finish of a printed part. [doi: 10.1109/M2VIP.2018.8600902](https://doi.org/10.1109/M2VIP.2018.8600902) In: Veri, A.; Xu, P.; Csiszar, A. (eds.) *The proceedings of the 2018 25th International Conference on Mechatronics and Machine Vision in Practice (M2VIP)*. IEEE.
- Reeves, R.R.; Seward, A.M.; Alcaraz, S.A.; Sanders, F.; Macdonald, N.; Brakenrig, T. 2018** Surface heat loss from the Waimangu Geothermal Valley. Paper 119 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Reyes, A.G. 2018** Geothermal energy from abandoned petroleum wells in New Zealand. 9 p. In: *The 12th Asian Geothermal Symposium, 9-12 November 2018, Daejeon, Korea*. [Bonn, Germany]: International Geothermal Association.
- Rissmann, C.; Pearson, L.; Lindsay, J.; Beyer, M.; Marapara, T.; Badenhop, A.; Couldrey, M.; Martin, A.P. 2018** Integrated landscape mapping of water quality controls for farm planning: applying a high resolution physiographic approach to the Waituna catchment, Southland. 19 p. In: Currie, L.D.; Christensen, C.L. *Farm environment planning: science, policy and practice: 31st annual FLRC Workshop held at Massey University, February 2018*. Palmerston North, N.Z.: Fertilizer and Lime Research Centre, Massey University. *Occasional report 31*
- Sajkowski, L.; Mountain, B.W.; Seward, T.M. 2018** Experimental examination of adsorption of the naphthalene sulfonates under geothermal conditions. Paper 130 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Sassa, K.; Guzzetti, F.; Yamagishi, H.; Arbanas, Z.; Casagli, N.; McSaveney, M.J.; Dang, K. (eds) 2018** Landslide dynamics: ISDR-ICL Landslide Interactive Teaching Tools. Volume 1: Fundamentals, mapping and monitoring. Cham, Switzerland: Springer International Publishing. 604 p.; [doi: 10.1007/978-3-319-57774-6](https://doi.org/10.1007/978-3-319-57774-6)

- Schutte, J.; Leveueur, J.; Yuan, X.; Potgieter, J. 2018** Evaluation of the effects of corona discharge plasma exposure proximity to fused deposition modelling 3D printed acrylonitrile butadiene styrene. [doi: 10.1109/M2VIP.2018.8600821](https://doi.org/10.1109/M2VIP.2018.8600821) In: Veri, A.; Xu, P.; Csiszar, A. (eds.) *The proceedings of the 2018 25th International Conference on Mechatronics and Machine Vision in Practice (M2VIP)*. IEEE.
- Scott, B.J.; Bromley, C.J.; Reeves, R.R.; Camburn, F. 2018** What makes geothermal features significant? Challenges in interpreting and applying assessment criteria. Paper 33 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Sherson, A.; Uma, S.R.; Prasanna, R. 2018** The effect of localised factors on water pipe repair times post-earthquake. p. 366-380 In: Stock, K.; Bunker, D. (eds) *Proceedings of the Information Systems for Crisis Response and Management Asia Pacific 2018 Conference: innovating for resilience: 5-7 November, Wellington, New Zealand*. [Auckland, N.Z.]: Massey University.
- Simpson, M.P. 2018** Hyperspectral (SWIR) characterisation of alteration at the Wharekirauponga epithermal Au-Ag prospect, Hauraki Goldfield, New Zealand. p. 287-293 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Smith, J.R.; Leveueur, J.; Kennedy, J.V. 2018** Design of intelligent surfaces for energy intensive processing industry. article 00001 (31 p.); [doi: 10.1051/mateconf/201818500001](https://doi.org/10.1051/mateconf/201818500001) In: Tzou G.-Y. (conference organizer) *The 3rd International Conference on Precision Machinery and Manufacturing Technology 2018, Feb 4-8 2018, Crowne Plaza, Auckland, New Zealand*. Yuanlin City: Chung Chou University of Science and Technology.
- Soengkono, S. 2018** Direct relationships between geology and airborne magnetic data over the Taupo Volcanic Zone (TVZ), New Zealand. Paper 17; [doi: NZMS262_04](https://doi.org/10.1051/mateconf/201818500001) In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Tan, M.; Prasanna, R.; Hudson-Doyle, E.; Stock, K.; Johnston, D.M.; Leonard, G.S. 2018** Usability factors affecting the continuance intention of disaster apps. p. 326-337 In: Stock, K.; Bunker, D. (eds) *Proceedings of the Information Systems for Crisis Response and Management Asia Pacific 2018 Conference: innovating for resilience: 5-7 November, Wellington, New Zealand*. [Auckland, N.Z.]: Massey University.
- Turnbull, R.E.; Morgenstern, R.; Hill, M.P.; Durance, P.M.J.; Rattenbury, M.S.; Smillie, R.W. 2018** Lithium mineral potential in New Zealand: a mineral systems approach. p. 325-331 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.

- Van Dissen, R.J.; Stahl, T.; King, A.B.; Fenton C.; Stirling, M.; Litchfield, N.J.; Little, T.; Pettinga, J.; Langridge, R.M.; Nicol, A.; Barrell, D.J.A.; Kearse, J.; Khajavi, N.; Villamor, P.; Ries, W.F. 2018** Impacts of surface fault rupture on residential structures and rural infrastructure during the 2016 M_w Kaikoura earthquake, New Zealand. Paper PL1.1 In: *From Inangahua to Kaikoura and beyond: NZSEE Conference 2018, 13-15 April 2018, Auckland, New Zealand*. Wellington, N.Z.: New Zealand Society for Earthquake Engineering.
- White, P.A.; Dawson, G.B.; Davidson, R. 2018** Physical model of the Wairakei Geothermal Field, circa 1960. Paper 102 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- White, P.A.; Moreau, M.; Rae, A.J.; Power, J.F.; Davids, B. 2018** Evolution of geothermal-groundwater circulation systems in the Quaternary Taupo Volcanic Zone: example of the Upper Waikato River catchment, New Zealand. Paper 94 In: *Proceedings 40th New Zealand Geothermal Workshop, 14-16 November 2018, Taupo, New Zealand*. Auckland, N.Z.: University of Auckland.
- Witter, J.B.; Miller, C.A.; Friend, M.; Colpron, M. 2018** Curie point depths and heat production in Yukon, Canada. paper 97 In: *Proceedings, 43rd Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, February 12-14, 2018*. Stanford, Calif.: Stanford University.
- Zarour, H.; Palmer, A.S.; Begg, J.G. 2018** A novel approach to incorporate heterogeneity in groundwater flow models. 6 p. In: *Twenty-first International Water Technology Conference, IWTC21, Port Said, 28-30 June 2018*. International Water Technology Association.
- Zekkos, D.; Clark, M.; Willis, M.; Athanasopoulos-Zekkos, A.; Manousakis, J.; Knoper, L.; Stahl, T.; Massey, C.I.; Archibald, G.C.; Greenwood, W.; Medwedeff, W. 2018** 3D models of the Leader Valley using satellite & UAV imagery following the 2016 Kaikoura earthquake. paper 001723 In: *11th National Conference on Earthquake Engineering: integrating science, engineering & policy, June 25-29, 2018*. Oakland, Calif.: Earthquake Engineering Research Institute.
- Zekkos, D.; Manousakis, J.; Athanasopoulos-Zekkos, A.; Clark, M.; Knoper, L.; Massey, C.I.; Archibald, G.C.; Greenwood, W.; Hemphill-Haley, M.; Rathje, E.; Litchfield, N.J.; Medwedeff, W.; Van Dissen, R.J.; Kearse, J.; Ries, W.F.; Villamor, P.; Langridge, R.M. 2018** Structure-from-Motion based 3D mapping of landslides & fault rupture sites during 2016 Kaikoura earthquake reconnaissance. paper 001730 In: *11th National Conference on Earthquake Engineering: integrating science, engineering & policy, June 25-29, 2018*. Oakland, Calif.: Earthquake Engineering Research Institute.

Other Publications

- Allan, M. 2018** Quantifying uncertainty within an ecologically-coupled lake hydrodynamic model: Lake Wairarapa case study. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/47*. 23 p.; [doi: 10.21420/J482-WF31](https://doi.org/10.21420/J482-WF31)
- Ashraf, S. 2018** Measuring volcanic crater lakes' temperature from space-borne thermal imagery. October 2018. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/10*. 52 p.; [doi: 10.21420/G2J34M](https://doi.org/10.21420/G2J34M)
- Barnes, J.D.; Cullen, J.; Barker, S.; Agostini, S.; Penniston-Dorland, S.; Lassiter, J.C.; Klügel, A.; Wallace, L.M.; Bach, W. 2018** Volatile cycling through the Hikurangi forearc, New Zealand. *GeoPRISMS Newsletter*, 40: 12-13
- Becker, J.S.; Baker, V.; Hollis, C.J.; Waitaki, H.; Try, D. 2018** Developing a dialogue to understand public perceptions of petroleum exploration and inform future community engagement in New Zealand. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/01*. 73 p.; [doi: 10.21420/G21H0K](https://doi.org/10.21420/G21H0K)
- Becker, J.S.; Coomer, M.A.; Blake, D.; Garden, E.; Rampton, A.; Newman-Hall, G.; Van der Velde, M.; Johnston, D.M. 2018** Impact of the 2016 Kaikoura earthquake on Wellington CBD apartment residents: results of a survey. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/45*. 152 p.; [doi: 10.21420/RH0P-MM18](https://doi.org/10.21420/RH0P-MM18)
- Becker, J.S.; Coomer, M.A.; Crowley, K.; Bannister, S. 2018** Perspectives on future hazards research: a consultation survey for the research community. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 109*. 32 p.; [doi: 10.21420/G2MP8M](https://doi.org/10.21420/G2MP8M)
- Becker, J.S.; McBride, S.K.; Potter, S.H.; Gerstenberger, M.C.; Christophersen, A. 2018** Effective communication of Operational Earthquake Forecasts (OEF): findings from a New Zealand workshop. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2016/45*. 49 p.; [doi: 10.21420/G2DH00](https://doi.org/10.21420/G2DH00)
- Bertler, N.A.N. 2018** Stable isotope analysis in ice core paleoclimatology. 14 p. In: Vandergoes, M.J.; Faure, K.; Turnbull, J.C.; Keller, E.D.; Cowan, H.; Wanden, R. *Quaternary Techniques Short Course, 17 & 18 May 2018, National Isotope Centre*. Lower Hutt, N.Z.: GNS Science.
- Blake, D.; Tipler, K.; Garden, E.; Johnston, D.M.; Becker, J.S. 2018** Wellington household preparedness survey. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/23*. 109 p.; [doi: 10.21420/G2GH10](https://doi.org/10.21420/G2GH10)
- Boyes, A.F. 2018** Cruise report, East Coast sea surface slick sampling, 1 - 6 October 2018. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/46*. 29 p.; [doi: 10.21420/BSP4-7F22](https://doi.org/10.21420/BSP4-7F22)

- Bromley, C.J. 2018** 2017 Working Group 1 report: environmental impacts. IEA Geothermal. 4 p.
- Bromley, C.J. 2018** Working Group 1 report to ExCo: geothermal environmental tasks. 11 powerpoint slides In: *IEA-GIA 39th ExCo Meeting, Vienna, Austria, 2 May 2018*. IEA Geothermal.
- Bromley, C.J. 2018** Working Group 13 Task D (induced seismicity) 2-4 May 2018 (Vienna) report and plans. 10 powerpoint slides In: *IEA-GIA 39th ExCo Meeting, Vienna, Austria, 2 May 2018*. IEA Geothermal.
- Bromley, C.J.; Axelsson, G. 2018** Recent research in deep roots: progress report from Working Group 12 for IEA Geothermal ExCo Meeting, 2 May 2018. 10 powerpoint slides In: *IEA-GIA 39th ExCo Meeting, Vienna, Austria, 2 May 2018*. IEA Geothermal.
- Bromley, C.J.; Carey, B.S. 2018** 2017 New Zealand country report. IEA Geothermal. 6 p.
- Bromley, C.J.; Carey, B.S. 2018** New Zealand geothermal country update report: May 2018. 16 powerpoint slides In: *IEA-GIA 39th ExCo Meeting, Vienna, Austria, 2 May 2018*. IEA Geothermal.
- Carter, L.H. 2018** Te Ropu Putaiao Papori Vision Matauranga Strategy and Action Plan 2018-2022. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 122*. 20 p.; [doi: 10.21420/G2R066](https://doi.org/10.21420/G2R066)
- Climo, M.D.; Blair, A.; Carey, B.S.; Bendall, S. 2018** Action Plan 2018–2019; Geoheat Strategy for Aotearoa NZ. New Zealand Geothermal Association. 11 p.
- Coomer, M.A.; Rogers, A.; Pinal, C. 2018** Natural hazards 2017. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 118*. 48 p.; [doi: 10.21420/G2VS8T](https://doi.org/10.21420/G2VS8T)
- Cortese, G.; Prebble, J.G.; Hollis, C.J. 2018** Paleoenvironmental reconstruction using marine microfossils. 7 p. In: Vandergoes, M.J.; Faure, K.; Turnbull, J.C.; Keller, E.D.; Cowan, H.; Wanden, R. *Quaternary Techniques Short Course, 17 & 18 May 2018, National Isotope Centre*. Lower Hutt, N.Z.: GNS Science.
- Crutchley, G.J.; Mountjoy, J.J.; Davy, B.W.; Hillman, J.I.T.; Watson, S.; Stewart, L.C.; Woelz, S.; Kane, T.; Gerring, P.; Quinn, W.; Turco, F.; Fougere, D.; MacNaughtan, M.; Djefal, A. 2018** Gas hydrate systems of the southern Hikurangi Margin, Aotearoa, New Zealand. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/40*. 83 p.; [doi: 10.21420/73WW-1W83](https://doi.org/10.21420/73WW-1W83)
- Deligne, N.I.; Leonard, G.S. 2018** NZ volcano teams assist overseas. p. 24-25 In: Coomer, M.A.; Rogers, A.; Pinal, C. *Natural hazards 2017*. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 118*

- Dellow, G.D.; Perrin, N.D.; Ries, W.F. 2018** Liquefaction hazard in the Wellington region. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2014/16*. 71 p.; [doi: 10.21420/G28S8J](https://doi.org/10.21420/G28S8J)
- Ditchburn, R.G. 2018** An improved method to oxidize volcanogenic massive sulphide mineralization and isolate barite for radiometric dating using ^{226}Ra , ^{228}Ra , ^{228}Th and ^{210}Pb . Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/04*. 17 p.; [doi: 10.21420/G2K927](https://doi.org/10.21420/G2K927)
- Dowling, L.H.; Clark, K.J.; Howarth, J.D.; Litchfield, N.J.; Cochran, U.A. 2018** The Hikurangi Margin Coastal Radiocarbon Age Database. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/03*. 14 p.; [doi: 10.21420/G2Q35J](https://doi.org/10.21420/G2Q35J)
- Dunn, C.E.; Christie, A.B.; Black, J.A. 2018** Biogeochemical surveys at Ohui and Pine Sinter epithermal Au-Ag prospects, Coromandel, and at Waitapu Thermal Park, New Zealand. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/20*. 84 p.; [doi: 10.21420/G25647](https://doi.org/10.21420/G25647)
- Durrant, B.; Orr, N. 2018** Preparation of polished thin sections and double polished fluid inclusion samples. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/09*. 10 p. + 2 appendices; [doi: 10.21420/G2Z931](https://doi.org/10.21420/G2Z931)
- Eiby, G.A.; Latter, J.H.; Hurst, A.W. (ed.) 2018** Volcanoes: a historical account and tribute to George Eiby and John Latter. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 115; Geoscience Society of New Zealand miscellaneous publication 149*. 224 p.; [doi: 10.21420/G2NS8Z](https://doi.org/10.21420/G2NS8Z)
- Fathani, T.F.F.; Wilopo, W.; Daly, M.C.; Glassey, P.J. 2018** Penguatan ketangguhan Indonesia: melalui pengurangan risiko bencana (StIRRRD). In: *Pengurangag Risiko Bencana di Daerah Tertinggal: panduan kontekstual kebencanaan berdasarkan kebijakan & best practice*. [Yogyakarta?]: Indonesian Government Ministry for Villages, Development of Disadvantaged Regions and Transmigration.
- Field, B.D.; Sykes, R.; Naeher, S.; Ventura, G.T.; Clowes, C.D.; Pascher, K.M.; Shepherd, C.L.; Griffin, A.G.; Hollis, C.J. 2018** Depositional influences on the petroleum potential of the Waipawa Formation in the Orui-1A drillhole, Wairarapa. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2017/49*. 76 p.; [doi: 10.21420/G2MM18](https://doi.org/10.21420/G2MM18)
- Fry, B.; Gledhill, K.R.; Benites, R.A. 2018** Ground motions in New Zealand from Kermadec megathrust earthquakes. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/33*. 17 p.; [doi: 10.21420/7J43-G338](https://doi.org/10.21420/7J43-G338)
- Grace, E.S.; France-Holden, B.; Kilvington, M. 2018** Managing existing uses in areas at high risk from natural hazards: an issues paper. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 119*. 10 p.; [doi: 10.21420/G2J64N](https://doi.org/10.21420/G2J64N)

- Griffin, A.G. 2018** Structural interpretation of borehole image logs from onshore southern East Coast Basin wells. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2017/47*. 85 p.; doi: [10.21420/G2X642](https://doi.org/10.21420/G2X642)
- Griffin, A.G. 2018** Insights into subsurface stress & structure in the southern East Coast Basin, New Zealand. 1 poster In: *3rd New Zealand Petroleum Geoscience Workshop, GNS Science, Lower Hutt, 27-28 Sept 2018*. Lower Hutt, N.Z.: GNS Science.
- Griffin, A.G. 2018** Quantifying coaly source rock abundance of Jurassic–Early Cretaceous coal measures in various basins around New Zealand using measured sections and wireline analysis. p. 139-148 In: *3rd New Zealand Petroleum Geoscience Workshop, GNS Science, Lower Hutt, 27-28 Sept 2018*. Lower Hutt, N.Z.: GNS Science.
- Gunnell, S. 2018** A review of the land use planning requirements for landslide risk in the western Wellington region. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/17*. 42 p.; doi: [10.21420/G2B34R](https://doi.org/10.21420/G2B34R)
- Hayes, J.L.; Tsang, S.W.; Fitzgerald, R.H.; Blake, D.M.; Deligne, N.I.; Doherty, A.; Hopkins, J.L.; Hurst, A.W.; Le Corvec N.; Leonard, G.S.; Lindsay, J.M.; Miller, C.A.; Nemeth, K.; Smid, E.; White, J.D.L.; Wilson, T.M. 2018** The DEVORA scenarios: multi-hazard eruption scenarios for the Auckland Volcanic Field. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/29*. 138 p.; doi: [10.21420/G20652](https://doi.org/10.21420/G20652)
- Jones, K.E.; Lee, J.M.; Archibald, G.C.; Lawson, S.; Asher, C. 2018** Rapid remote sensing data collection: using UAV data capture with Structure from Motion processing to generate high resolution models of seven landslide dams generated by the 2016 Kaikoura Earthquake. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/16*. 33 p.; doi: [10.21420/G2MH0V](https://doi.org/10.21420/G2MH0V)
- Kaiser, A.E.; Wotherspoon, L. 2018** The Wellington Basin in 3D: mapping ground shaking properties linked to earthquake damage. p. 38-40 In: Coomer, M.A.; Rogers, A.; Pinal, C. *Natural hazards 2017*. Lower Hutt, N.Z.: GNS Science. GNS Science miscellaneous series 118
- Langridge, R.M.; Howarth, J.D. 2018** A new paradigm for Alpine Fault paleoseismicity: the northern section of the Alpine Fault. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 121*. 49 p.; doi: [10.21420/G2WS9H](https://doi.org/10.21420/G2WS9H)
- Langridge, R.M.; Townsend, D.B. 2018** Co-seismic and ongoing land deformation at Mt Lyford Village, North Canterbury. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 120*. 17 p.; doi: [10.21420/G21M10](https://doi.org/10.21420/G21M10)
- Lawrence, M.J.F. 2018** Structural and sedimentological interpretation of well data from the Wairoa area, North Island, New Zealand. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/28*. 76 p. + 16 enclosures; doi: [10.21420/G23W81](https://doi.org/10.21420/G23W81)

- Lawrence, M.J.F. 2018** Sedimentology Special Interest Group (SSIG) annual report 2016-2017. *Geoscience Society of New Zealand newsletter*, 24: 23-26
- Litchfield, N.J.; Clark, K.J.; Ries, W.F.; Villamor, P.; Van Dissen, R.J.; Langridge, R.M.; Jones, K.E.; Heron, D.W.; Lukovic, B.; Townsend, D.B.; Barrell, D.J.A.; Pettinga, J.; Nicol, A.; Fenton, C.; Khajavi, N.; Little, T.; Kears, J.; Rowland, J.; Canva, A.; Stirling, M.W.; Williams, J. 2018** Kaikoura Earthquake Short-Term Project: inventories of onshore surface fault ruptures and coastal uplift. Final report. *GNS Science miscellaneous series 111*. 16 p.; [doi: 10.21420/G2B93F](https://doi.org/10.21420/G2B93F)
- Lovett, A.P.; Gyopari, M.; Moreau, M.F.; Moore, C.R.; White, P.A. 2018** Resource management decisions and data requirements to support the Smart models for aquifer management research programme. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2017/19*. 39 p.; [doi: 10.21420/G2G887](https://doi.org/10.21420/G2G887)
- Mackey, B.; Dellow, G.D.; Payan, J.-L. 2018** Roxburgh debris flow, 26th November 2017. *Flow: Rivers Group newsletter*, 22: 4-6
- Martindale, H.; van der Raaij, R.W. 2018** Investigation of groundwater-surface water interaction in the Te Arai River, Gisborne, using radon-222 and concurrent stream flow gauging. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/13*. 27 p.; [doi: 10.21420/G2SD24](https://doi.org/10.21420/G2SD24)
- Martindale, H.; van der Raaij, R.W.; Daughney, C.J.; Hadfield, J.; Morgenstern, U. 2018** Measurement of neon in groundwaters for quantification of denitrification in aquifers. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/34*. 44 p.; [doi: 10.21420/FR4XJ821](https://doi.org/10.21420/FR4XJ821)
- Martindale, H.; van der Raaij, R.W.; Knowling, M.J.; Morgenstern, U. 2018** Quantifying groundwater discharge into New Zealand rivers using radon and concurrent flow gauging. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/25*. 39 p.; [doi: 10.21420/G2093B](https://doi.org/10.21420/G2093B)
- McKay, R.M.; De Santis, L.; Kulhanek, D.K.; Expedition 374 Scientists 2018** Expedition 374 preliminary report: Ross Sea West Antarctic Ice Sheet history. College Station, TX: International Ocean Discovery Program. 63 p.; [doi: 10.14379/iodp.pr.374.2018](https://doi.org/10.14379/iodp.pr.374.2018)
- Morgenstern, U.; Begg, J.G.; van der Raaij, R.W.; Moreau, M.; Martindale, H.; Daughney, C.J.; Franzblau, R.E.; Stewart, M.K.; Knowling, M.J.; Toews, M.W.; Trompeter, V.; Kaiser, J.; Gordon, D. 2018** Heretaunga Plains aquifers: groundwater dynamics, source and hydrochemical processes as inferred from age, chemistry, and stable isotope tracer data. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2017/33*. 82 p.; [doi: 10.21420/G2Q92G](https://doi.org/10.21420/G2Q92G)
- Naeher, S. 2018** Tracing environmental and climate change using lipid biomarkers: the world of organic geochemistry. 9 p. In: Vandergoes, M.J.; Faure, K.; Turnbull, J.C.; Keller, E.D.;

Cowan, H.; Wanden, R. *Quaternary Techniques Short Course, 17 & 18 May 2018, National Isotope Centre*. Lower Hutt, N.Z.: GNS Science.

Nathan, S. 2018 Joseph Divis: postcards of mining town life. p. 90-101 In: Barnett, R.; Barnett, P. (eds) *Hard won gold: stories from Waiuta and the Reefton Goldfield: essays in memory of Les Wright, 1950-2013*. Greymouth, N.Z.: Friends of Waiuta.

Nathan, S. 2018 Postcards of Joseph Divis. *Postcard Pillar*, 118: 26-30

Nathan, S.; Wright, L. 2018 From ore to ingots: the Snowy River Battery, Waiuta. p. 49-58 In: Barnett, R.; Barnett, P. (eds) *Hard won gold: stories from Waiuta and the Reefton Goldfield: essays in memory of Les Wright, 1950-2013*. Greymouth, N.Z.: Friends of Waiuta.

Potter, S.H. 2018 Intended responses to a tsunami evacuation message using Emergency Mobile Alerts in New Zealand. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/14*. 34 p.; [doi: 10.21420/G2GW6P](https://doi.org/10.21420/G2GW6P)

Potter, S.H. 2018 Recommendations for New Zealand agencies in writing effective short warning messages. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/02*. 28 p.; [doi: 10.21420/G20H08](https://doi.org/10.21420/G20H08)

Potter, S.H.; Grace, E.S.; Payne, B.; Levy, R.H. 2018 Uses of sea level rise information by local government: Hawke's Bay case study. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/32*. 19 p.; [doi: 10.21420/GE9F-1K76](https://doi.org/10.21420/GE9F-1K76)

Potter, S.H.; Johnston, D.M. 2018 High impact weather initiative in New Zealand. p. 32-33 In: Coomer, M.A.; Rogers, A.; Pinal, C. *Natural hazards 2017*. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 118*

Power, J.F.; Carere, C.R.; Lee, C.K.; Wakerley, G.L.J.; Evans, D.W.; Button, M.; White, D.; Climo, M.D.; Hinze, A.M.; Morgan, X.C.; McDonald, I.R.; Cary, S.C.; Stott, M.B. 2018 Microbial biogeography of 1,000 geothermal springs in New Zealand. *bioRxiv*; preprint 247759; [doi: 10.1101/247759](https://doi.org/10.1101/247759)

Raine, J.I.; Kennedy, E.M.; Griffin, A.G.; Sykes, R.; Clowes, C.D. 2018 Materials for improved assessment of the petroleum source potential of New Zealand coaly rocks, 1: mid-Cretaceous stratigraphy, coal abundance, flora, and climate. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/07*. 99 p.; [doi: 10.21420/G20D20](https://doi.org/10.21420/G20D20)

Reeves, R.R.; Macdonald, N. 2018 2017 aerial thermal infrared survey of the Waimangu-Rotomahana-Mt Tarawera Geothermal Field. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2017/48*. 20 p.; [doi: 10.21420/G21S8C](https://doi.org/10.21420/G21S8C)

Rogers, K.M. 2018 Investigation of toxic treatments on Maori textiles and wooden objects for MTG Hawkes Bay using a portable x-ray fluorescence machine. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/21*. 24 p.; [doi: 10.21420/G21D29](https://doi.org/10.21420/G21D29)

- Rogers, K.M. 2018** Detecting environmental change using stable isotopes. 26 p. In: Vandergoes, M.J.; Faure, K.; Turnbull, J.C.; Keller, E.D.; Cowan, H.; Wanden, R. *Quaternary Techniques Short Course, 17 & 18 May 2018, National Isotope Centre*. Lower Hutt, N.Z.: GNS Science.
- Rogers, K.M.; Phillips, A.M.; Immers, A.G.; Cooper, J.; Sim, M.; Fitzgerald, J. 2018** Characterising New Zealand butter using bulk and molecular multi-isotope analyses. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/26*. 38 p.; [doi: 10.21420/G2TH2G](https://doi.org/10.21420/G2TH2G)
- Saffer, D.S.; Wallace, L.M.; Petronotis, K.P.; Expedition 375 Scientists 2018** International ocean discovery program expedition 375 preliminary report: Hikurangi subduction margin coring and observatories unlocking the secrets of slow slip through drilling to sample and monitor the forearc and subducting plate. International Ocean Discovery Program. 38 p.; [doi: 10.14379/iodp.pr.375.2018](https://doi.org/10.14379/iodp.pr.375.2018)
- Sagar, M.W.; Prebble, J.G. (eds.) 2018** Geosciences 2018, 27-30 November 2018, Napier: abstract volume. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*. 313 p.
- Sarris, T.; Close, M.; Burberry, L. 2018** Denitrification rate inputs to groundwater models. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/43*. 51 p.; [doi: 10.21420/MZJ5-6M59](https://doi.org/10.21420/MZJ5-6M59)
- Saunders, W.S.A. 2018** Investigating the role of iwi management plans in natural hazards management: a case study from the Bay of Plenty region. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2017/50*. 55 p. + appendices; [doi: 10.21420/G2VW63](https://doi.org/10.21420/G2VW63)
- Scheele, F.R.; Horspool, N.A. 2018** Modelling fire following earthquake in Wellington: a review of globally available methodologies. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2017/42*. 23 p.; [doi: 10.21420/G27S&V](https://doi.org/10.21420/G27S&V)
- Snelder, T. 2018** Nutrient concentration targets to achieve periphyton biomass objectives incorporating uncertainties. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/38*. 41 p.; [doi: 10.21420/AJSH-NW16](https://doi.org/10.21420/AJSH-NW16)
- Stevens, G.R. 2018** Fossil hunting at Amuri Bluff and a belemnite story. *Journal of the Historical Studies Group / Geological Society of New Zealand*, 58: 26-38
- Stevens, G.R. 2018** Geological exploration of the Hokonui Hills. *Journal of the Historical Studies Group / Geological Society of New Zealand*, 58: 2-8
- Stevens, G.R. 2018** Lester King (1907-1989): following in Cotton's footsteps. *Journal of the Historical Studies Group / Geological Society of New Zealand*, 58: 16-25
- Strong, C.P.; Raine, J.I.; Terezow, M. 2018** Key species of New Zealand fossil foraminifera: descriptions from "Manual of New Zealand Permian to Pleistocene Foraminiferal

Biostratigraphy" by Hornibrook, Brazier and Strong, 1989. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 123*. Web site

Sutherland, R.; Dickens, G.R.; Blum, P.; Expedition 371 Scientists 2018 International Ocean Discovery Program Expedition 371 preliminary report: Tasman Frontier subduction initiation and Paleogene climate. 44 p.; [doi: 10.14379/iodp.pr.371.2018](https://doi.org/10.14379/iodp.pr.371.2018)

Terezow, M.; Hollis, C.J.; Shepherd, C.L.; Cooper, S.K.; Hayward, B.W.; White, L. 2018 Te Kura Kohatu (School of Rock 2018) completion report. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 126*. 95 p.; [doi: 10.21420/Q9YF-N837](https://doi.org/10.21420/Q9YF-N837)

Thomas, K.-L. 2018 Tsunami preparedness in the Chatham Islands. p. 16-17 In: Coomer, M.A.; Rogers, A.; Pinal, C. *Natural hazards 2017*. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 118*

Townend, J.; Eccles, J.; Kellett, R.L.; DFDP Seismic Project Team 2018 Whataroa 2016 seismic experiment acquisition report. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2016/36*. 124 p. + DVD; [doi: 10.21420/G2TK9T](https://doi.org/10.21420/G2TK9T)

Turnbull, J.C.; Prior, C.A.; Zondervan, A. 2018 Radiocarbon dating. 11 p. In: Vandergoes, M.J.; Faure, K.; Turnbull, J.C.; Keller, E.D.; Cowan, H.; Wanden, R. *Quaternary Techniques Short Course, 17 & 18 May 2018, National Isotope Centre*. Lower Hutt, N.Z.: GNS Science.

van der Raaij, R.W.; Moreau, M.; Westerhoff, R.S. 2018 The refinement of isotopic data layers for three catchment-scale studies in the Southland, Horizons, and Gisborne regions: activities between May 2017 and May 2018. Lower Hutt, N.Z.: GNS Science. *GNS Science report 2018/18*. 35 p.; [doi: 10.21420/G2R34G](https://doi.org/10.21420/G2R34G)

Vandergoes, M.J.; Cochran, U.A. 2018 Paleoenvironmental reconstruction using microfossils: terrestrial. 21 p. In: Vandergoes, M.J.; Faure, K.; Turnbull, J.C.; Keller, E.D.; Cowan, H.; Wanden, R. *Quaternary Techniques Short Course, 17 & 18 May 2018, National Isotope Centre*. Lower Hutt, N.Z.: GNS Science.

Vandergoes, M.J.; Faure, K.; Turnbull, J.C.; Keller, E.D.; Cowan, H.; Wanden, R. 2018 Quaternary Techniques Short Course, 17 & 18 May 2018, National Isotope Centre. Lower Hutt, N.Z.: GNS Science. 1 v.

Villamor, P.; Barrell, D.J.A.; Gorman, A.; Davy, B.W.; Hreinsdottir, S.; Hamling, I.J.; Stirling, M.W.; Cox, S.C.; Litchfield, N.J.; Holt, A.; Todd, E.; Denys, P.; Pearson, C.; Sangster, C.; Garcia-Mayordomo, J.; Goded, T.; Abbott, E.R.; Ohneiser, C.; Lepine, P.; Caratori-Tontini, F. 2018 Unknown faults under cities. Lower Hutt, N.Z.: GNS Science. *GNS Science miscellaneous series 124*. 71 p.; [doi: 10.21420/G2PW7X](https://doi.org/10.21420/G2PW7X)

Weber, J.; Minnig, C.; Lee, T.J.; Richter, M.; Meier, P.; Link, K.; Bromley, C.J.; Muller, J. 2018 2017 Working Group 13 report: emerging geothermal technologies. IEA Geothermal. 6 p.

Wilson, G. 2018 Quaternary paleomagnetism & environmental magnetism. 20 p. In: Vandergoes, M.J.; Faure, K.; Turnbull, J.C.; Keller, E.D.; Cowan, H.; Wanden, R. *Quaternary Techniques Short Course, 17 & 18 May 2018, National Isotope Centre*. Lower Hutt, N.Z.: GNS Science.

2018 3rd New Zealand Petroleum Geoscience Workshop, GNS Science, Lower Hutt, 27-28 Sept 2018. Lower Hutt, N.Z.: GNS Science. [546] p.

Conference Abstracts

Ando, R.; Kaneko, Y. 2018 Dynamic rupture simulation of the 2017 Mw 7.8 Kaikoura earthquake: is spontaneous multi-fault rupture expected? 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.

Ando, R.; Kaneko, Y. 2018 Dynamic rupture simulations of the 2016 Mw 7.9 Kaikoura earthquake: revealed importance of non-planar fault geometries and heterogeneous traction. 1 p. In: *10th ACES (APEC Cooperation for Earthquake Science) International Workshop: towards comprehensive understanding of earthquake physics: Awaji Island, September 25-28, 2018*. [Brisbane?]: ACES.

Arai, R.; Kodaira, S.; Kellett, R.L.; Stucker, V.K.; Bassett, D.; Henrys, S.A.; Obana, K.; Bangs, N.; Barker, D.H.N.; Bell, R.; Mochizuki, K.; Miura, S.; Fry, B.; NZ3D Team 2018 Resolving fine-scale velocity structure of the plate boundary in the northern Hikurangi margin from NZ3D OBS survey. p. 13 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Arai, R.; Kodaira, S.; Kellett, R.L.; Stucker, V.K.; Bassett, D.; Henrys, S.A.; Obana, K.; Bangs, N.L.; Barker, D.H.N.; Bell, R.E.; Mochizuki, K.; Miura, S.; Fry, B. 2018 NZ3D OBS experiment: toward elucidating high-resolution plate boundary structure, offshore Gisborne, Hikurangi margin, New Zealand. abstract T51I-0295 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Arnulf, A.F.; Biemiller, J.; Bassett, D.; Wallace, L.M.; Henrys, S.A.; Crutchley, G.J.; Pecher, I.A.; Lavier, L. 2018 Structure, physical characteristics and fault slip behaviors along the southern Hikurangi subduction zone derived from seismic full waveform imaging. abstract T51I-0298 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

- Ashraf, S.; Durance, P.M.J.; Rae, A.J.; Kereszturi, G. 2018** Application of extended multispectral satellite data for orogenic and geothermal mineral mapping in New Zealand. In: *Second What on Earth Colloquium, 6-7 March 2018, Te Papa, Wellington, New Zealand*.
- Bach, W.; Diehl, A.; Koschinsky, A.; Kleint, C.; de Ronde, C.E.J.; Stucker, V.K.; Humphris, S.E.; Seewald, J.; Strauss, H. 2018** Causes of variable hydrothermal vent fluid compositions at Brothers Volcano - Kermadec Arc. abstract V34A-05 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Baisden, W.T.; Clough, T.; Rissmann, C.; Ellis, T.; Wells, N.; Rayner, S.; Phillips, A. 2018** Ten years of dual-isotope nitrate in New Zealand: finding opportunities to enable improved agricultural management to reduce eutrophication. p. 1 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Bangs, N.L.; Van Avendonk, H.J.; Arnulf, A.F.; Gase, A.; Henrys, S.A.; Okaya, D.A.; Barker, D.H.N.; Jacobs, K.; Fujie, G.; Arai, R.; Kodaira, S. 2018** Large underplated structures along the southern Hikurangi margin: preliminary results from the SHIRE seismic imaging experiment. abstract T511-0296 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Barker, D.H.N.; Henrys, S.A.; Caratori Tontini, F.; Barnes, P.; Bassett, D.; Todd, E.; Wallace, L.M. 2018** Geophysical constraints on the relationship between seamount subduction, slow slip and tremor at the north Hikurangi subduction zone, New Zealand. p. 16 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Barker, D.H.N.; Henrys, S.A.; Caratori Tontini, F.; Bassett, D.; Wallace, L.M.; Barnes, P.; Todd, E. 2018** The role of seamount subduction on shallow slow slip distribution, northern Hikurangi margin, New Zealand. abstract T511-0296 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Barnes, P.; Saffer, D.; Wallace, L.M.; Pecher, I.A.; Petronotis, K.; Levay, L.; IODP Expedition 372 & 375 scientists 2018** Drilling and coring the northern Hikurangi subduction margin to unlock the secrets of slow slip: International Ocean Discovery Program (IODP) Expeditions 372 and 375. p. 7 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Barrell, D.J.A.; Glassey, P.J.; Smith Lyttle, B. 2018** Dunedin urban geological map. p. 18 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier*:

abstract volume. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Barrell, D.J.A.; Stirling, M.W.; Williams, J.; Sauer, K.; van den Berg, E. 2018 Kaikoura earthquake: Hundalee fault paleoseismology. p. 19 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Barrier, A.; Browne, G.H.; Nicol, A.; Basset, K.; Sahoo, T.R. 2018 Late Cretaceous-Eocene underfilling of the Canterbury Basin: what does it tell us about eastern Gondwana landmass evolution? p. 20 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Bartlow, N.; Yohler, R.; Wallace, L.M.; Williams, C.A. 2018 Science application of seafloor geodesy: combining onshore GPS and offshore pressure data to study the 2014 Gisborne, New Zealand slow slip event. abstract 2513 In: *2018 UNAVCO Science Workshop: workshop abstracts*. Boulder, Colo.: UNAVCO.

Bartlow, N.M.; Williams, C.A. 2018 A long-term view of Cascadia ETS. abstract D42D-02 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Bassett, D.; Arnulf, A.; Harding, A.J.; Kodaira, S.; Nakanishi, A. 2018 Crustal structure of the Nankai subduction zone revealed by two decades of onshore-offshore and ocean-bottom seismometer data (Invited). abstract T41C-03 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Bassett, D.; Henrys, S.A.; Barker, D.H.N.; Arnulf, A.F.; Arai, R.; Kodaira, S.; Van Avendonk, H.J.; Bangs, N.L.; Fujie, G.; Yamamoto, Y.; Obana, K.; Hillman, J.I.T. 2018 The relationship between forearc structure and geodetic locking along the Hikurangi margin from SHIRE seismic data. abstract T53C-07 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Bassett, D.; Henrys, S.A.; Barker, D.H.N.; Arnulf, A.; Arai, R.; Kodaira, S.; van Avendonk, H.; Bangs, N.; Fujie, G.; Yamamoto, Y.; Obana, K.; Hillman, J.I.T.; SHIRE Team 2018 The relationship between forearc structure and geodetic locking along the Hikurangi Margin from SHIRE seismic data. p. 21 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Beall, A.; Fagereng, A.; Ellis, S.M. 2018 Rapid creep and simultaneous fracturing of modelled subduction melange at low stress. abstract EGU2018-19169 In: *European Geosciences*

Union General Assembly 2017, Vienna, Austria, 23-28 April 2017. Goettingen, Germany: Copernicus Gesellschaft. Geophysical research abstracts 19

- Begg, J.G.; Nodder, S.; Woelz, S.; Gyopari, M.; Grant, K. 2018** Investigating the groundwater resource beneath Wellington Harbour: a new conceptual geological analysis for hydrogeological modelling. p. 30-32 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Behr, Y.; Sherburn, S.; Hurst, A.W.; Scott, B.J. 2018** Inference of heat and steam input into Ruapehu crater lake from GeoNet data. p. 23 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Bell, R.E.; Gray, M.; Morgan, J.V.; Henrys, S.A.; Barker, D.H.N.; Bangs, N.L.; Barnes, P.; Wallace, L.M.; Saffer, D.M.; Petronotis, K.E. 2018** Validating a full-waveform inversion velocity model at the north Hikurangi subduction margin using IODP drilling data. abstract T51I-0297 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Bennington, N.L.; Thurber, C.H.; Wespestad, C.; Cardona Sr, C.; Vanderhoof, B.; Zeng, X.; Lanza, F.; Williams-Jones, G.; Miller, C.A.; Keranen, K.M. 2018** Understanding the rhyolitic magma system beneath Laguna del Maule, Chile: a seismic investigation. abstract 328059 In: *Merging geophysical, petrochronologic, and modeling perspectives of large silicic magma systems: AGU Chapman Conference, Quinamavida, Maule Region, Chile, 7-12 January 2018.* Washington, D.C.: American Geophysical Union.
- Berryman, K.R.; Villamor, P.; Litchfield, N.J.; Langridge, R.M.; Little, T.; Nicol, A.; Williams, J.N.; Kearse, J.; Ellis, S.M.; Eberhart-Phillips, D.; Ratternbury, M.S.; Townsend, D.B.; Bannister, S. 2018** Surface faulting associated with the 2016 MW 7.8 Kaikoura earthquake: complexity of ruptures, 3D structure, geological history and fault source definition (Invited). abstract T21C-01 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Bertler, N.A.N.; Conway, H.; Dahl-Jensen, D. 2018** Ross Sea deglaciation: environmental reconstruction from the RICE ice core. p. 4 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand.*
- Bertler, N.A.N.; Conway, H.; Dahl-Jensen, D.; Baccolo, G.; Baisden, W.T.; Blunier, T.; Brook, E.; Buizert, C.; Carter, L.; Dacic, R.; Delmonte, B.; Edwards, R.; Eling, L.; Fudge, T.J.; Golledge, N.R.; Hindmarch, R.C.A.; Johnson, K.; Keller, E.D.; Kingslake, J.; Kipfstuhl, S.; Kjaer, H.A.; Korokikh, E.; Kurbatov, A.; Lee, J.E.; Lowry, D.; Mayewski, P.A.; McKay, R.; Menviel, L.; Naish, T.R.; Neff, P.; Pyne, R.E.; Scherer,**

- R.P.; Severinghaus, J.P.; Simonson, M.; Steig, E.J.; Venugopal, A.U.; Vallelonga, P.T.; Waddington, E.D.; Winstrup, M.; Xiao, C.; Zhang, D. 2018** Ross Sea deglaciation: environmental reconstruction from the RICE ice core. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.
- Bertram, R.; van de Flierdt, T.; Levy, R.H.; McKay, R. 2018** A Transantarctic view of the Plio-Pleistocene East Antarctic Ice Sheet. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.
- Bertrand, E.A.; Caldwell, T.G.; Heise, W.; Bannister, S.; Bennie, S.L.; Palmer, N.G.; Hart R. 2018** Magma imaged by array MT data in the Taupo Volcanic Zone. p. 26 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Bevins, C.; Holt, K.; Procter, J.; Verburg, P.; Gibbs, M.; Vandergoes, M.J. 2018** Natural and human environmental impact from Lake Horowhenua. p. 27 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Biemiller, J.; Wallace, L.M.; Ellis, S.M.; Little, T.A.; Lavier, L.; Mizera, M.; Webber, S.M. 2018** Short- and long-term deformation styles on an active low-angle normal fault: Mai'iu fault, Papua New Guinea. abstract T33D-0430 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Bollen, M.; Ohneiser, C.; Riesselman, C.; Lee, M.K.; Yoo, K.-C.; Albot, O.; McKay, R.; Sunghan, K.; Lee, J.I.; Levy, R.H. 2018** Diatom reworking in the Ross Sea: evidence for Quaternary bottom currents. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.
- Bostock, H.; Prebble, J.G.; Cortese, G.; Hayward, B.; Calvo, E.; Quiros-Callazos, L.; Kienast, M.; Kim, K. 2018** Paleo-productivity in the SW Pacific Ocean during the early Holocene Climatic Optimum. p. 30 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Boulton, C.; Little, T.; Niemeijer, A.; Hamers, M.; Ellis, S.M. 2018** Episodic fracture and creep at shallow crustal levels, Hungaroa fault zone, Hikurangi Subduction Margin, New Zealand. p. 31 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Boulton, C.; Niemeijer, A.R.; Townend, J.; Hollis, C.J.; Little, T.A.; Ellis, S.M. 2018** Geology and frictional properties of Hikurangi Subduction Zone sediments from surface outcrop and ODP 1124C samples. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.
- Brasell, K.; Howarth, J.D.; Pochon, X.; Zaiko, A.; Vandergoes, M.J.; Simon, K.; Wood, S. 2018** One shakey lake: impacts from 1000 years of natural tectonic disturbance on in-lake communities. p. 51 In: *Ka mua, ka muri: looking back, moving forward: 50th NZFSS annual conference, Nelson, 10-14th December 2018: conference handbook*. Christchurch, N.Z.: New Zealand Freshwater Sciences Society.
- Brennan, S.; Adam, L.; Sykes, R.; Mohnhoff, D.; Strachan, L. 2018** Dynamic elasticity and the controlling physical properties of New Zealand's coaly source rocks. p. 3583-3587 In: Alumbaugh D.; Bevc, D. *SEG International Exposition and 88th Annual Meeting, Anaheim, CA, 14-19 Oct 2018*. Tulsa, OK: Society of Exploration Geophysicists. SEG technical program expanded abstracts 37
- Brough, T.; Pettinga, J.; Van Dissen, R.J.; Nicol, A.; Stahl, T.; Khajavi, N.; Clark, D.; Pedley, K.; Langridge, R.M. 2018** Tectonic geomorphology and paleoseismology of the Humps fault which initiated the M_w 7.8 Kaikoura earthquake. p. 35 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Browne, G.H.; Adams, C.J.; Raine, J.I.; Kennedy, E.M.; Campbell, H.J.; Higgs, K.E.; Strogon, D.P.; Sahoo, T.R. 2018** Fluvio-deltaic and lacustrine rocks of the Murihiku Supergroup in South Auckland. p. 36 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Campbell, H.J. 2018** Jurassic biostratigraphy zonation of Zealandia's Murihiku Terrane (New Zealand) and Teremba Terrane (New Caledonia): what does it tell us about Continental crises? p. 38 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Caratori Tontini, F.; Tivey, M.; de Ronde, C.E.J.; Humphris, S.E. 2018** Heat-flow and near-seafloor magnetic anomalies highlight hydrothermal circulation at Brothers volcano (southern Kermadec Arc). abstract V43F-0167 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Caratori Tontini, F.; de Ronde, C.E.J.; Tivey, M.; Humphris, S. 2018** Results of near-seafloor geophysical surveys at Brothers Volcano. p. 40 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.:

Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Cartwright, I.; Morgenstern, U. 2018** Macroscopic controls on mean transit times in catchments. p. 10 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand.*
- Cartwright, I.; Morgenstern, U. 2018** Why do Australian catchments have long transit times? abstract EGU2018-1632 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018.* Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Chow, B.; Kaneko, Y.; Katakami, S.; Wallace, L.M.; Townend, J. 2018** Detection of triggered tremor and associated slow slip in New Zealand from transient teleseismic surface waves. p. 41 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Chow, B.; Kaneko, Y.; Silwal, V.; Tape, C.; Townend, J. 2018** Adjoint tomography of the Hikurangi subduction zone and New Zealand's North Island. abstract T511-0282 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Christie, A.B.; Dunn, C.E.; Black, J.A. 2018** An update on biogeochemical surveys of epithermal gold occurrences in the Hauraki Goldfield and Taupo Volcanic Zone. p. 105 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18.* Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Christophersen, A.; Deligne, N.I.; Hanea, A.; Chardot, L.; Fournier, N.; Aspinall, W. 2018** Probabilistic eruption forecasting with Bayesian Networks and expert elicitation: a pilot study for Whakaari/White Island. p. 42 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Civil, M.; Crosta, X.; Cortese, G.; Michel, E.; Mazaud, A.; Jaccard, S.; Thöle, L.; Ikehara, M. 2018** Impact of climate and natural iron fertilization on siliceous productivity off Kerguelen Archipelago, Southern Ocean, over the last 40 000 years. abstract MIS06-04 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan.* Tokyo: Japan Geoscience Union.
- Clague, J.; Stenger, R.; Morgenstern, U. 2018** The influence of unsaturated zone drainage status on shallow groundwater redox conditions in Reporoa Basin. p. 71-72 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the*

hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2. [Wellington, N.Z.]: New Zealand Hydrological Society.

- Clark, K.J.; Litchfield, N.J.; Turnbull, J.C.; Howarth, J.D.; Bostock, H.; Marshall, B. 2018** Progress toward a locally-derived radiocarbon marine reservoir correction along the Hikurangi Margin and implications for coastal paleoseismology. p. 43 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Clilverd, M.A.; Rodger, C.J.; Brundell, J.B.; Dalzell, M.; Martin, I.; Mac Manus D.H.; Thomson, N.R.; Petersen, T.; Obana, Y.; Clarke, E.; Thomson, A.; Richardson, G.; Bailey, R.-L.; Freeman, M. 2018** Local time variations in mid-latitude magnetic field perturbations and geomagnetically induced currents during the 07-08 September 2017 geomagnetic storm. In: *Fifteenth European Space Weather Week, November 5-9, 2018, Leuven, Belgium*. Brussels: Solar-Terrestrial Centre of Excellence.
- Cocchi, L.; Caratori Tontini, F.; De Ritis, R.; Ligi, M.; Passaro, S.; Sacchi, M.; Ventura, G. 2018** Volcanism at the edge of a subduction plate: geophysical and morphological data reveal a new set of volcanic structures in the Southern Tyrrhenian Sea. abstract EGU2018-1965 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Coffin, R.B.; Rose, P.S.; Yoza, B.; Pecher, I.A.; Crutchley, G.J.; Mountjoy, J.J. 2018** Geochemical and seismic overview of spatial variation in vertical methane migration off the Mahia Peninsula, New Zealand. abstract OS11B-1419 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Cooper, R.A.; Crampton, J.S.; Meyers, S.; Sadler, P.; Foote, M. 2018** Graptolite evolution and paleoclimate: How the Court Jester manipulates the Red Queen. p. 50 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Cooper, S.K.; White, L.D.; Lewis, J.C.; Terezow, M. 2018** Expanding geoscience on-ramps with innovative professional development models: IODP School of Rock. abstract ED13C-0759 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Couture, P.; Kennedy, J.V.; Williams, G.V.M.; Leveneur, J.; Markwitz, A.; Murmu, P.P.; Chong, S.V.; Rubanov, S. 2018** Effect of bismuth ion implantation into iron oxide film to fabricate multiferroic BiFeO₃ and magnetic nanoparticles. p. 75 In: *21st International Conference on Ion Beam Modification of Materials, June 24-29, 2018, San Antonio, Texas, USA*. IBMM.

- Cowan, H.; Cox, S.C.; Haines, J.; Rutter, H.; Schoefeld, M. 2018** Understanding the dynamics of shallow groundwater: the Christchurch experience. p. 299-301 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Cox, S.C. 2018** Water and the hydrological cycle: the source of life, but a major driver of future hazards. p. 90-92 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Cox, S.C.; Haines, A.J.; Rutter, H.; Hornblow, S.; Gebert, P.; Glassey, P.J. 2018** Towards understanding the effects of sea-level rise on groundwater. p. 54 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Cox, S.C.; O'Brien, G.; Weaver, K.C.; Townend, J.; Rutter, H.K. 2018** Earthquake-induced fluid pressure changes and the hydrological response in landslides. p. 55-56 In: *The abstract book of MEGE 2018: the 5th International Symposium on Mega Earthquakes Induced Geo-disasters and Long Term Effects.* Chengdu, China: State Key Laboratory of Geohazard Prevention and Geoenvironment Protection.
- Cox, S.C.; Roudier, P.; Morgan, F. 2018** Characterising seasonal water and melting in the Ross Sea region of Antarctica. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018.* Davos: WSL Institute for Snow and Avalanche Research SLF.
- Cox, S.C.; Smith Lyttle, B.; Martin, A.P.; SCAR GeoMap Action Group 2018** The GeoMap dataset of Antarctic rock exposures. p. 53 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Cox, S.C.; Smith Lyttle, B.; Siddoway, C.; Capponi, G.; Elvevold, S.; Burton-Johnson, A.; Halpin, J.; Morin, P.; Elliot, D.; Geomap Action Group 2018** The GeoMAP dataset of Antarctic rock exposures. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018.* Davos: WSL Institute for Snow and Avalanche Research SLF.
- Cox, S.C.; van Ballegooy, S.; Rutter, H.; Hart, D.S.; Holden, C.; Gulley, A.; Lacrosse, V.; Manga, M. 2018** Earthquake-induced aquifer leakage exacerbated manifestation of liquefaction in Christchurch, New Zealand. p. 93-95 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.

- Crampton, J.S.; Mortimer, N.; Bland, K.J.; Strogon, D.P.; Sagar, M.W.; Hines, B.R.; King, P.R.; Seebeck, H. 2018** When did Cretaceous subduction end at the margin of Zealandia. p. 55 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Cronin, S.J. 2018** The Resilience Challenge 2015-2024: increasing investment into geological hazards. p. 56 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Crutchley, G.J.; Klaeschen, D.; Henrys, S.A.; Pecher, I.A. 2018** Seismic depth images and velocity models at the southern Hikurangi subduction margin: insights into emergent deformation and dewatering. abstract T511-0287 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Crutchley, G.J.; Kroeger, K.F.; Pecher, I.A. 2018** The role of tectonic folding in gas hydrate formation: Hikurangi margin, New Zealand. abstract EGU2018-11409 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Crutchley, G.J.; Mountjoy, J.; Davy, B.W.; Hillman, J.I.T.; Stewart, L.C.; Watson, S.; Woelz, S.; Quinn, W.; Kane, T.; Gerring, P.; Djefel, A.; Turco, F.; Fougere, D.; Macnaughtan, M.; Gorman, A.; Pecher, I.A. 2018** Hydee Voyage 1: first results of a gas hydrate research voyage aboard RV Tangaroa, September 2018. p. 57 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- D'Anastasio, E.; Dooley, D.; Wu, H.; Parera, S.; Clitheroe, G.; Guest, R.; Campbell, D.; Balfour, N.J. 2018** GLORIA: GNSS LOW Rate data Ingestion and Access at GeoNet, New Zealand. In: *2018 UNAVCO Science Workshop: workshop abstracts*. Boulder, Colo.: UNAVCO.
- Davidson, P.; Morgenstern, U. 2018** Understanding groundwater dynamics from tritium and 18O in coastal Wairau plain aquifer; NZ part 1. p. 108 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Davidson, S.; Barnes, P.; Pettinga, J.; Nicol, A.; Mountjoy, J.; Henrys, S.A. 2018** Conjugate strike slip faulting associated with seamount subduction at the Hikurangi margin deformation front, New Zealand. p. 61 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Davidson, S.R.; Barnes, P.; Pettinga, J.R.; Nicol, A.; Mountjoy, J.J.; Henrys, S.A. 2018** Conjugate strike slip faulting associated with seamount subduction at the Hikurangi deformation front, New Zealand. abstract T51I-0286 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Davy, B.W. 2018** Tha Pahau/Rakaia Terrane boundary of the northern Chatham Rise and implications for the 2016 Kaikoura earthquake sequence. p. 63 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Davy, P.K.; Harvey, M.; Li, J.; Michalski, G.; Katzman, T.; Wilkins, B. 2018** Geochemical, sulfur isotopic characteristics and source contributions of size-aggregated aerosols collected at Baring Head, New Zealand. p. [16] In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- de Ronde, C.E.J. 2018** Modern seafloor hydrothermal systems associated with submarine arcs: how prospective are they for Cu-Au mineralization? p. 799 In: *AGCC 2018 abstract volume: Australian Geoscience Council Convention: big issues and ideas in geoscience, 14-18 October 2018*. Australian Geoscience Council.
- de Ronde, C.E.J.; Humphris, S.; Bach, W.; Caratori Tontini, F.; Koschinsky, A. 2018** Large-scale transport of metals at Brothers submarine arc volcano: evidence from massive sulfide stockwork zones. p. 67 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- de Ronde, C.E.J.; Humphris, S.E.; Wolfgang, B.; Caratori Tontini, F.; Koschinsky, A. 2018** Massive sulfide stockwork zones of Brothers submarine arc volcano: evidence for large-scale transport of metals. abstract V34F-0166 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- de Vilder, S.; Brain, M.; Rosser, N. 2018** Controls on weathering induced strength degradation with implications for brittle rock slope failures. p. 68 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Djeffal, A.; Pecher, I.A.; Bangs, N.; Crutchley, G.J.; SHIRE Shipboard Party 2018** Possible causes of double-BSRs on the Hikurangi Margin, New Zealand. abstract EGU2018-10236 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Djeffal, A.; Pecher, I.A.; Singh, S.C.; Crutchley, G.J.; Kaipio, J.P. 2018** Full waveform inversion as a tool for exploring gas hydrates: an example from New Zealand's southern

Hikurangi margin. abstract OS11B-1426 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Dowling, L.; Clark, K.J.; Howarth, J.D.; Litchfield, N.J.; Cochran, U.A. 2018 The Hikurangi Margin coastal radiocarbon age database. p. 70 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Duncan, B.; McKay, R.; Bendle, J.; Naish, T.R.; Levy, R.H.; Prebble, J.G.; Moossen, H.; Sangiorgi, F.; Krishnan, S.; Schouten, S.; Willmott, V.; Warren, C.; Ventura, G.T. 2018 A Cenozoic record of ocean temperature from Antarctica. p 72 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Eberhart-Phillips, D.; Bannister, S.; Reyners, M.E. 2018 Mantle attenuation related to the Taupo Volcanic Zone, New Zealand. abstract T22B-07 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Eberhart-Phillips, D.; Reyners, M.E.; Bannister, S. 2018 Heterogeneous distribution of slab fluids influences along-arc variation of subduction processes in the Hikurangi subduction zone. p. 74 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Eling, L.; Bertler, N.A.N.; Lee, J.; McKay, R.; Pyne, R. 2018 Changing Ross Sea climate ~8900 years ago: a regional or continental-wide signal? p. 76 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Ellis, S.M.; Weber, S.; Beall, A.; Fagereng, A. 2018 "Weak but strong": investigating heterogeneous and transient stress states in New Zealand's shear zones. p. 77 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Ellis, S.M.; Wilson, C.; Kissling, W.M.; Villamor, P.; Savage, M.; Kilgour, G.E.; Williams, C.A. 2018 Interactions between magma and mechanics in an active volcanic rift: which factors promote tensile and shear failure above an evolving shallow magma chamber? p. 78 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Fang, F.; Kennedy, J.V.; Rogers, J.J 2018** Morphology of copper oxide composite materials synthesised by the arc discharge method. p. 118 In: *ICMSNT 2018 conference abstract book: 2018 3rd International Conference on Materials Science and Nanotechnology, Mar 29-Apr 1, 2018, Chengdu, China*. Chengdu, China: Southwest Jiaotong University.
- Fiebig, J.; Tassi, F.; Stefansson, A.; Viveiros, F.; Silva, C.; D'Alessandro, W.; Ricci, A.; Schreiber, C.; Lopez, T.; Mountain, B.W. 2018** Abiotic hydrocarbons in Earth's crust: a phantom? In: *Goldschmidt 2018 abstracts*. Cambridge, U.K.: White Iron Conferences Limited.
- Fogwill, C.; Turney, C.; Golledge, N.R.; Etheridge, D.; Rubino, M.; Thornoton, D.; Baker, A.; Woodward, J.; Winter, K.; van Ommen, T.; Moy, A.; Curran, M.; Davies, S.; Weber, M.; Bird, M.; Munksgaard, N.; Menviel, L.; Rootes, C.; Cooper, A.; Millman, H. 2018** Antarctic ice sheet discharge driven by atmosphere-ocean feedbacks at the Last Glacial Termination. abstract EGU2018-3454 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Fry, B.; Gledhill, K.R. 2018** Seismic monitoring and rapid response in New Zealand (Invited). abstract S24C-01 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Fry, B.; Gledhill, K.R.; Kaiser, A.E.; Holden, C.; Power, W.L.; McCurrach, S.-J.; Kao, H. 2018** Toward operational tsunami early warning in New Zealand. abstract NH34B-05 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Fukai, M.; Ogawa, Y.; Tseng, K.-H.; Bertrand, E.A.; Kinoshita, Y.; Ichiki, M. 2018** MT observation in the Kitakami Mountain. abstract SEM16-06 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Fukuda, Y.; Takiguchi, H.; Nishijima, J.; Kazama, T.; Stagpoole, V.M.; O'Brien, G. 2018** Gravity changes due to the 2016 Kaikoura earthquake. Abstract SGD01-08 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Gard, H.J.L.; Beu, A.G.; Lee, D.; Marshall, B. 2018** Molluscan fauna of the Oligocene Pomahaka Formation: tropical estuarine and brackish-water taxa in Otago. p. 83 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Gase, A.; Van Avendonk, H.J.; Bangs, N.L.; Okaya, D.A.; Henrys, S.A.; Barker, D.H.N.; Jacobs, K.; Kodaira, S.; Fujie, G.; Arnulf, A.F.; 2018** Crustal structure of the northern Hikurangi margin and Bay of Plenty from marine seismic reflection imaging and double-

sided onshore-offshore seismic tomography. abstract T53C-06 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Gerstenberger, M.C.; Fry, B.; Wallace, L.M.; Kaneko, Y.; Rhoades, D.A.; Hamling, I.J.; Christophersen, A.; Williams, C.A. 2018 What is the role of SSE in triggering future earthquakes? An example from the 2016 Kaikoura Mw7.8 earthquake. abstract S41E-0597 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Gerstenberger, M.C.; Litchfield, N.J.; Van Dissen, R.J.; Rhoades, D.A.; McVerry, G.H.; Goded, T. 2018 Modelling time-dependent hazard for central New Zealand following the Mw 7.8 Kaikoura, earthquake. abstract SSS05-06 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.

Gerstenberger, M.C.; Schorlemmer, D. 2018 How well constrained are earthquake rates in low-seismicity areas? abstract SSS05-P03 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.

Gerstenberger, M.C.; Wallace, L.M.; Fry, B.; Kaneko, Y.; Rhoades, D.A.; Hamling, I.J.; Christophersen, A.; Williams, C.A. 2018 Widespread triggering of slow-slip earthquakes during the Mw7.8 Kaikoura earthquake: implications for earthquake forecasting. abstract SSS06-06 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.

Gillies, J.; Kennedy, B.; Gravley, D.; Leonard, G.S.; Cowlyn, J. 2018 Identifying pyroclastic density currents from partial outcrop exposures on Mt Ruapehu, New Zealand. p. 89 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Gilmer, G.; Moy, C.; Gadd, P.; Browne, I.; Vandergoes, M.J.; Aebig, C.; Wilson, G.; Jacobsen, G. 2018 Post-glacial environments at the subantarctic Auckland Islands, New Zealand. p. 91 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Gilmer, G.; Riesselman, C.; Yoo, K.-C.; Lee, J.; Lee, M.; Parker, R.; Levy, R.H.; Rosenheim, B.; Campbell, J.; McKay, R.; Jacobsen, G. 2018 Early Holocene ocean and atmosphere interaction in Moubray Bay, Antarctica. p. 90 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Gledhill, K.R. 2018 Enhanced geohazards monitoring for New Zealand. p. 9 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*.

Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Goded, T.; Canessa, S.; Gerstenberger, M.C.; Rhoades, D.A.; Horspool, N.A. 2018** New macroseismic intensity assessment method for New Zealand web questionnaires. abstract S17-512 In: D'Amico, S.; Galea, P.; Bozionelos, G.; Colica, E.; Farrugia, D.; Agis, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission*. Messina: Mistral Service.
- Grant, G.; Levy, R.H.; Naish, T.R.; Stocchi, P.; Dunbar, G.; Kominz, M.; Kamp, P. 2018** Sea-level, polar ice sheet variability and climate forcing: presenting a new sea level record (3.3-1.7 Ma). p. 95 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Grapenthin, R.; Li, S.; Ofeigsson, B.; Sigmundsson, F.; Drouin, V.; Hreinsdottir, S.; Parks, M.; Friðriksdóttir, H. 2018** Post-eruptive deformation after the 2014-2015 Bárðarbunga dike intrusion and rifting event, Iceland. abstract 2609 In: *2018 UNAVCO Science Workshop: workshop abstracts*. Boulder, Colo.: UNAVCO.
- Grapenthin, R.; Li, S.; Ofeigsson, B.; Sigmundsson, F.; Drouin, V.; Hreinsdottir, S.; Parks, M.; Friðriksdóttir, H. 2018** Post-eruptive deformation after the 2014-2015 Bárðarbunga dike intrusion and rifting event, Iceland. abstract EGU2018-15632 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Gregersen, R.; Wood, S.; Vandergoes, M.J.; Puddick, J.; Pochon, X.; Moy, C.; Schallenberg, M.; Perry, G.; Simon, K. 2018** Reconstructing lake diatom community change: comparing novel DNA metabarcoding with traditional morphological techniques. p. 74 In: *Ka mua, ka muri: looking back, moving forward: 50th NZFSS annual conference, Nelson, 10-14th December 2018: conference handbook*. Christchurch, N.Z.: New Zealand Freshwater Sciences Society.
- Greve, A.; Li, X.; Petronotis, K.; Crundwell, M.P.; Shepherd, C.L.; Woodhouse, A.; Barnes, P.; Wallace, L.M.; Saffer, D.; IODP expedition 375 shipboard scientists 2018** IODP Expedition 375: Hikurangi subduction margin –first chronostratigraphic constraints derived from shipboard palaeomagnetic analyses. abstract SCG58-P06 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Griffiths, J.; Zammit, C.; Yang, J.; Moore, C.R.; Kees, L. 2018** A simplified approach to groundwater model calibration. p. 76 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1*. [Wellington, N.Z.]: New Zealand Hydrological Society.

- Gusman, A.R.; Power, W.L.; Burbidge, D.R. 2018** Two identical tsunami earthquakes in the Kermadec Ridge. p. 99 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Gushev, M.A.; Kikumori, Y.; Denda, M.; Toda, H.; Tsujimura, M.; Sakakibara, K.; Morgenstern, U.; Stewart, M.K. 2018** Application of tritium-tracer and stable isotopes in the Chikuma River basin, Japan. abstract AHW23-08 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Gyopari, M.; Grant, K.; Begg, J.G.; Nodder, S. 2018** Investigating the groundwater resource beneath Wellington Harbour: exploration activities and hydrogeological analysis. p. 143-145 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Haines, A.J.; Wallace, L.M.; Williams, C.A. 2018** Ten years of continuous GPS in the Hikurangi Margin: 2006-2016. p. 100 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Halford, S.; Rees, A.; Gutierrez-Gines, M.; Šunde, C.; Wood, S.; Alderton, I.; Schaller, K.; Vandergoes, M.J.; Smith, R. 2018** Ecosystem services at Lake Wairarapa: insights into the past, present, and future. p. 75 In: *Ka mua, ka muri: looking back, moving forward: 50th NZFSS annual conference, Nelson, 10-14th December 2018: conference handbook*. Christchurch, N.Z.: New Zealand Freshwater Sciences Society.
- Hamling, I.J.; Kilgour, G.N. 2018** Are chilled basaltic magmas more susceptible to earthquake triggering? Evidence from the 2015 Ambrym, Vanuatu dyke intrusion. p. 101 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hamling, I.J.; Upton, P. 2018** Evidence for aseismic slip driven by pore fluid pressure following the 2016 Kaikoura earthquake. p. 102 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Harvey, H.; Procter, J.; Palmer, J.; Bland, K.J.; Strogon, D.P. 2018** Geology of the Weber region, East Coast Basin, New Zealand. p. 106 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Hashimoto, Y.; Oliveira, C.; Kutterolf, S.; Meneghini, F.; Noda, A.; Rabinowitz, H.; Underwood, M.; Saffer, D.M.; Wallace, L.M.; Petronotis, K.; Barnes, P.; Bell, R.; Crundwell, M.P.; Fagereng, A.; Fulton, P.; Greve, A.; Harris, R.; Hüpers, A.; Ikari, M.; Ito, Y.; Kitajima, H.; Lee, H.; Li, X.; Luo, M.; Malie, P.; Morgan, J.; Savage, H.; Shepherd, C.L.; Shreedharan, S.; Solomon, E.; Wang, M.; Woodhouse, A. 2018** Preliminary results of lithostratigraphy in IODP Expedition 375: Hikurangi subduction margin coring and observatories. SCG53-27 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Heeschen, K.U.; Torres, M.E.; Pecher, I.A.; Schlömer, S.; Owari, S.; Rose, P.S.; Karina, M.; Schicks, J.M.; Hu, G.; Mountjoy, J.J.; Barnes, P.; LeVay, L.; Solomon, E.A.; Saffer, D.M.; Wallace, L.M.; Petronotis, K.E.; IODP Expedition 372 Scientists; IODP Expedition 375 Scientists 2018** Occurrence and fractionation of light hydrocarbons in the gas-hydrate bearing sediments of IODP Site U1517, Hikurangi Margin, New Zealand. abstract OS13A-06 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Heise, W.; Caldwell, T.G.; Bertrand, E.A.; Bennie, S.L.; Ogawa, Y.; Saito, Z.; Seki, K.; Matsunaga, Y.; Suzuki, A.; Kishita, T.; Kinoshita, Y.; Ichihara, H.; Yoshimura, R. 2018** Imaging the transition from weakly to strongly coupled plate interface at the Hikurangi Margin, New Zealand. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.
- Heise, W.; Caldwell, T.G.; Bertrand, E.A.; Ogawa, Y.; Yoshimura, R.; Ichihara, H.; Bennie, S.L.; Seki, K.; Saito, Z.; Matsunaga, Y.; Suzuki, A.; Kishita, T.; Kinoshita, Y. 2018** Imaging the transition from weakly to strongly coupled plate interface at the Hikurangi Margin, New Zealand. p. 109 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Heise, W.; Caldwell, T.G.; Bertrand, E.A.; Ogawa, Y.; Yoshimura, Y.; Ichihara, H.; Bennie, S.L.; Salto, Z.; Seki, K.; Matsunaga Y.; Suzuki, A.; Kinoshita, Y.; Kishita, T. 2018** Imaging subduction interface coupling using magnetotellurics: Hikurangi Margin, New Zealand (Invited). abstract T22C-06 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Hemmings, B.; Knowling, M.J.; Moore, C.R.; Hanson, M.; Etheridge, Z. 2018** Calibration-constrained uncertainty analysis of groundwater flow and contaminant transport models for the Waimakariri-Ashley region. p. 152-154 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.

- Henderson, R.; Zammit, C.; Singh, I.; Westerhoff, R.S.; Lilburne, L. 2018** Benchmarking in the NZ water model: what is it and why do it? p. 157-158 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Henrys, S.A.; Jacobs, K.; Okaya, D.; Van Avendonk, H.; Bangs, N.; Kurashimo, E.; Arai, R.; Kodaira, S.; Savage, M.; Barker, D.H.N.; Bassett, D.; SHIRE Team 2018** Along-strike variations in the Hikurangi subduction zone: land-based seismic observations during the 2017-2018 SHIRE seismic onshore-offshore imaging project. p. 110 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Henrys, S.A.; Jacobs, K.; Okaya, D.A.; Van Avendonk, H.J.; Bangs, N.L.; Kurashimo, E.; Arai, R.; Kodaira, S.; Savage, M.K.; Barker, D.H.N.; Bassett, D. 2018** Along-strike variations in the Hikurangi Subduction zone: land-based seismic observations during the 2017-2018 SHIRE seismic onshore-offshore imaging project. abstract T511-0284 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Herath, P.; Stern, T.; Savage, M.; Henrys, S.A.; Bassett, D. 2018** Crust and upper mantle structure beneath eastern North Island, New Zealand along PEGASUS23 and 25 lines of SAHKE experiment. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018.* Wellington: Victoria University of Wellington.
- Herath, P.; Stern, T.; Savage, M.; Henrys, S.A.; Bassett, D. 2018** Crustal and upper mantle structure of southern Hikurangi margin from onshore-offshore active-source seismic data. p. 111 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Herath, P.; Stern, T.A.; Savage, M.K.; Henrys, S.A.; Bassett, D. 2018** Crustal and upper mantle structure of southern Hikurangi margin from onshore-offshore active source data. abstract T511-0290 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Hill, M.P.; Kaiser, A.E.; Bourguignon, S.; Bruce, Z.R.; Dellow, G.D.; Morgenstern, R.; Wotherspoon, L. 2018** Understanding our Capital's sedimentary basin: development of a 3D model for Wellington City using geotechnical, geological and geophysical data. p. 115 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Hill, M.P.; Rosser, B.J.; Dellow, G.D. 2018** Remotely piloted aerial system monitoring of a shallow marine landslide and analysis of sediment migration at Ngati Toa Domain, Wellington. p. 114 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hillman, J.I.T.; Crutchley, G.J.; Kroeger, K.F. 2018** Modelling the role of faults in fluid migration and hydrate formation on the Hikurangi Margin, New Zealand. abstract OS31F-1854 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Hillman, J.I.T.; Crutchley, G.J.; Kroeger, K.F.; Davy, B.W.; TAN1808 Scientific Party 2018** Characterising focused fluid flow and shallow hydrate formation using 2-D seismic data from the southern Hikurangi Margin. p. 113 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hirai, Y.; Tamura, Y.; Hoernle, K.; Werner, R.; Hauff, F.; Timm, C.; Hanyu, T.; Vaglarov, B.; Miyazaki, T.; Chang, Q.; Kimura, J. 2018** Petrology and geochemistry of primitive lavas from Kibblewhite volcano, southern Kermadec arc. p. 524 In: *AGCC 2018 abstract volume: Australian Geoscience Council Convention: big issues and ideas in geoscience, 14-18 October 2018*. Australian Geoscience Council.
- Hirai, Y.; Tamura, Y.; Hoernle, K.; Werner, R.; Hauff, F.; Timm, C.; Miyazaki, T.; Vaglarov, B. 2018** Geochemical variations in primitive lavas from the Kibblewhite volcano, Kermadec arc. abstract EGU2018-1639 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Hirai, Y.; Tamura, Y.; Hoernle, K.; Werner, R.; Hauff, F.; Timm, C.; Miyazaki, T.; Vaglarov, B. 2018** Magnesian andesites from the Kibblewhite volcano, Kermadec arc. abstract SMP36-10 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Hochmuth, K.; Gohl, K.; Sauermilch, I.; Whittaker, J.M.; Leitchenkov, G.L.; De Santis, L.; Olivio, E.; Uenzelmann-Neben, G.; Davy, B.W. 2018** The interlinked Cenozoic evolution of ocean circulation patterns and Antarctic ice sheets from paleobathymetric grids of the Southern Ocean. abstract PP22A-02 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Hoffman, J.; Gorman, A.; Crutchley, G.J. 2018** Interaction of fluid migration structures with polygonal faults imaged by 3D seismic data in the Canterbury Basin (New Zealand). abstract EGU2018-11568 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*

- Hoffmann, J.; Gorman, A.; Crutchley, G.J.; Micallef, A.; Mountjoy, J.; Avers, T. 2018** Pockmark formation, modification and fluid seepage on the Canterbury Shelf. p. 116 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Holden, C. 2018** A new uplift rate model for southern northwest Nelson, South Island, New Zealand revealed by cosmogenic nuclide dating of the sediments of Bulmer Cavern. p. 119 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Holden, C.; Beskhyroun, S. 2018** Testing advanced seismological methods towards a better understanding of the built environment response to earthquakes. p. 117 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Holden, C.; Kaneko, Y.; Kaiser, A.E. 2018** Towards ground motion predictions for a large Hikurangi subduction earthquake: lessons from the Kaikoura earthquake. p. 118 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hollis, C.J.; Naeher, S.; Clowes, C.D.; Crouch, E.M.; Shepherd, C.L.; Li, X.; Sykes, R. 2018** The very peculiar conditions that created the Waipawa Formation, ~59 million years ago. p. 120 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hopkins, J.; Timm, C.; Wilson, C.; Leonard, G.S.; Hauff, F. 2018** Geochemical relationships of coupled eruptions in the Auckland Volcanic Field. p. 123 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hori, R.; Sakakibara, M.; Akikuni, K.; Okada, Y.; Grant-Mackie, J.; Spörli, K.; Aita, Y.; Sakai, T.; Takemura, A.; Yamakita, S.; Ikehara, M.; Kodama, K.; Campbell, H.J. 2018** Triassic-Jurassic boundary studies of Murihiku and Waipapa Terraces, New Zealand. p. 125 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Horton, S.; Mager, S.; Cox, S.C. 2018** Chemical composition of alpine rivers in the Southern Alps, New Zealand. p. 214-215 In: *NZ Hydrological Society & Meteorological Society of*

NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2. [Wellington, N.Z.]: New Zealand Hydrological Society.

- Howarth, J.D.; Orpin, A.R.; Nodder, S.; McCleery, D.; Strachan, L.J.; Mountjoy, J.J.; Barnes, P.M.; Holden, C.; Bostock, H.C. 2018** Calibrating the turbidite paleoseismometer on the Hikurangi margin, New Zealand, using the 2016 M_w7.8 Kaikoura earthquake. abstract T53C-01 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Howell, A.; Clark, K.J. 2018** Comparison of 2016 co-seismic and Holocene coastal uplift along the Kaikoura coast. p. 130 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Howell, A.; Clark, K.J.; Nissen, E.; Stahl, T.; Villamor, P.; Jones, K.E. 2018** 3-D co-seismic offsets during the 2016 Mw 7.8 Kaikoura earthquake from aerial photogrammetry. p. 129 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hreinsdottir, S.; Hamling, I.J.; Wallace, L.M.; Denys, P.H.; Ellis, S.M.; Palmer, N.G.; D'Anastasio, E.; Gentle, P.; Pearson, C.F.; Upton, P. 2018** Postseismic deformation following the 2016 Mw 7.6 Kaikoura earthquake, New Zealand. abstract G21A-01 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Hu, W.; McSaveney, M.J.; Yao, L. 2018** Mineral changes quantify frictional heating during a large low-friction landslide. abstract EGU2018-2477 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018.* Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Hughes, E.; Blundy, J.; Brooker, R.; EIMF; Cartigny, P.; Botcharnikov, R.; Balzer, R.; Kilgour, G.N.; Mader, H. 2018** Tracking CO₂ degassing using stable isotope fractionation in basaltic magmas. p. 133 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hughes, E.; Kilgour, G.N.; Mazot, A.; Mader, H.; Blundy, J. 2018** Volatiles in basaltic magmas from the Okataina Volcanic Centre. p. 134 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Hughes, E.C.; Blundy, J.D.; Brooker, R.A.; EIMF; Cartigny, P.; Botcharnikov, R.E.; Balzer, R.; Bindeman, I.N.; Kilgour, G.N.; Mader, H.M. 2018** Tracking basalt degassing using

volatile stable isotope fractionation. In: *Goldschmidt 2018 abstracts*. Cambridge, U.K.: White Iron Conferences Limited.

Hulbe, C.; Levy, R.H.; Naish, T.R.; Rack, W.; Stevens, C.; Pyne, A.; Ohneiser, C.; Horgan, H. 2018 Vulnerability of the Ross Ice Shelf in a warming world. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.

Hurst, M.D.; Rood, D.H.; Stephenson, W.J.; Naylor, L.A.; Dickson, M.E.; Clark, K.J.; Seal, A. 2018 Marine terrace genesis on an active tectonic coast: rates and processes of rock coast erosion prior to uplift during the 2016 Kaikoura earthquake inferred from cosmogenic ^{10}Be concentrations. abstract EP23C-2343 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Illsley-Kemp, F.; Savage, M.; Wilson, C.; Bannister, S. 2018 Three-dimensional flow in the Hikurangi mantle wedge: implications for central North Island magmatism. p. 135 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Imaizumi, Y.; Tsujimura, M.; Yamamoto, C.; Sugiyama, A.; Ogawa, M.; Sakakibara, K.; Kato, K.; Mizugaki, S.; Katsuyama, M.; Yamada, T.; Yano, S.; Sasakura, N.; Gusyev, M.A.; Morgenstern, U.; Stewart, M.K. 2018 Spatial distribution of residence time and total number of prokaryotes in spring water in headwater catchments underlain by different lithology. abstract AHW23-P06 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.

Inglis, G.N.; Naafs, B.D.A.; Rohrsen, M.; Kennedy, E.M.; Pancost, R.M. 2018 Elevated terrestrial temperatures during the Paleocene-Eocene Thermal Maximum: a multi-proxy perspective. In: *Goldschmidt 2018 abstracts*. Cambridge, U.K.: White Iron Conferences Limited.

Inglis, G.N.; Rohrsen, M.; Naafs, B.D.; Kennedy, E.M.; Collinson, M.E.; Jaramillo, C.; Pancost, R. 2018 Proxy evidence for enhanced methane cycling during greenhouse climates (Invited). abstract PP43B-06 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Ito, Y.; Kaneko, Y.; Wallace, L.M.; Henrys, S.A.; Webb, S.; Muramoto, T.; Ohta, K.; Mochizuki, K.; Suzuki, S.; Kido, M.; Hino, R. 2018 Seismic waves triggering slow slip event on the pressure gauge records in the Hikurangi subduction margin. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.

- Ito, Y.; Kaneko, Y.; Webb, S.C.; Wallace, L.M.; Hino, R. 2018** Ground motion and its ocean bottom amplification in subduction zones. abstract T41F-0366 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Jadamec, M.A.; Fischer, K.M.; Durance, P.M.J.; Haynie, K.L. 2018** A comparative study of slab-edge driven mantle flow in the Alaska subduction zone, the Cocos-Nazca gap, and the Vanuatu-North Fiji system. abstract DI13B-0029 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Johnson, K.; McKay, R.; Jiménez-Espejo, F.; Bertler, N.A.N.; Albot, A. 2018** Evaluating El Niño–Southern Oscillation signatures in offshore Adélie Land, East Antarctica sediment core. p. 138 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Johnson, K.M.; McKay, R.; Jiménez-Espejo, F.J.; Bertler, N.A.N.; Albot, A. 2018** Characterizing Holocene climate variability from Adélie Basin sediment core. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.
- Johnston, D.M.; Leonard, G.S.; Becker, J.S. 2018** Towards tsunami-safer communities in New Zealand: evaluating real events, exercises, drills and awareness programmes. p. 139 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Johnston, D.M.; Potter, S.H.; Turner, R.; Lunny, J.; Kreft, P.; Harrison, S.; Campbell, E.; McLaren, L.; Rovins, J.; Beatson, A. 2018** HIWeather New Zealand: opportunities to connect to a co-operative international research programme. p. 176 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Jones, K.E. 2018** Natural hazard remote sensing: using satellite and aerial imagery to map landslides in New Zealand. In: *Second What on Earth Colloquium, 6-7 March 2018, Te Papa, Wellington, New Zealand*.
- Jones, K.E.; Begg, J.G.; Lee, J.M.; Tschirter, C. 2018** A 3-D geological model for the Heretaunga Plains. p. 140 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Jones, K.E.; Massey, C.I.; Howarth, J.D.; Sirguey, P. 2018** Why regional scale data capture is important for dynamic earthquake research. p. 141 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.:

Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Kaneko, Y. 2018 Nucleation processes of laboratory and crustal earthquakes (Invited). p. 14-15 In: *The 2nd Asia-Pacific Workshop on Lithosphere and Mantle Dynamics, August 6-8, 2018, Yokohama, Japan*. Yokohama: Local Organising Committee.

Kaneko, Y. 2018 On the complexity of earthquake source dynamics and fault slip: insights from the 2016 Kaikoura (New Zealand) earthquake. 1 p. In: *10th ACES (APEC Cooperation for Earthquake Science) International Workshop: towards comprehensive understanding of earthquake physics: Awaji Island, September 25-28, 2018*. [Brisbane?]: ACES.

Kaneko, Y. 2018 Rupture process of the 2016 M7.8 Kaikoura earthquake. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.

Kaneko, Y.; Ito, Y.; Chow, B.; Wallace, L.M.; Tape, C.; D'Anastasio, E.; Grapenthin, R.; Hino, R. 2018 Extremely long duration of ground motion arising from sedimentary structures above slow slip areas of the Hikurangi subduction zone. abstract T53C-05 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Kaneko, Y.; Ito, Y.; Chow, B.; Wallace, L.M.; Tape, C.; D'Anastasio, E.; Grapenthin, R.; Hino, R. 2018 Extremely long duration of ground motion arising from sedimentary structures above slow-slip areas of the Hikurangi subduction zone. p. 144 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Kaneko, Y.; Wallace, L.M.; Hamling, I.J.; Gerstenberger, M.C. 2018 Simple physical model for the probability of a subduction-zone earthquake following slow slip events: application to the Hikurangi megathrust, New Zealand. SSS06-P04 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.

Kaviyarasu, K.; Murmu, P.P.; Kennedy, J.V.; Maaza, M. 2018 Effect of Fe ion implantation on structural and magnetic behavior of CeO₂ nanoclusters. p. 74-75 In: *21st International Conference on Ion Beam Modification of Materials, June 24-29, 2018, San Antonio, Texas, USA*. IBMM.

Kearse, J.; Kaneko, Y.; Little, T.; Van Dissen, R.J. 2018 Curved fault striations, rupture directivity, and dynamics of the Kekerengu Fault during the 2016 M_w 7.8 Kaikoura earthquake. p. 145 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Keller, E.D.; Baisden, W.T.; Holder, P.; Canessa, S.; Trompetter, V.; Lovett, A.P. 2018** Dynamic rainfall isoscapes for biosecurity and hydrology. p. 38 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand.*
- Keller, E.D.; Christophersen, A.; Golledge, N.R.; Bertler, N.A.N.; McKay, R.; Levy, R.H.; Hanea, A. 2018** Modelling the retreat of Pine Island Glacier with Bayesian Networks. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018.* Davos: WSL Institute for Snow and Avalanche Research SLF.
- Keller, E.D.; Golledge, N.R.; Levy, R.H.; Meissner, K.J. 2018** Nonlinearities in Southern Ocean response to CO₂ and obliquity forcing. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018.* Davos: WSL Institute for Snow and Avalanche Research SLF.
- Keller, E.D.; Turnbull, J.C.; Thompson, J.; Hutrya, L.; Gurney, K.R.; Mikaloff-Fletcher, S.; Golubiewski, N. 2018** Bottom-up estimates of fossil and biogenic CO₂ for Auckland, New Zealand. abstract A53F-02 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Kellett, R.L.; Lawrence, M.J.F.; Griffin, A.G.; Bruce, Z.R.; Massey, C.I.; Black, J.A.; O'Brien, G.; Lyndsell, B.M.; Brune, R.; Stagpoole, V.M. 2018** Imaging fault zones and fractured greywacke using borehole and surface geophysics. p. 147 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Kellett, R.L.; Ravens, J.M.; Polom, U.; Tanner, D.; Villamor, P. 2018** Initiatives for mapping faults in urban centres. p. 148 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Kennedy, E.M.; Lee, D.; Kaulfuss, U.; Mildenhall, D.C.; Prebble, J.G.; Schmidt, A.; Conran, J.; Vanner, M. 2018** Captured in amber: ecological complexity in Zealandia's ancient Araucarian forests. p. 149 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Kennedy, J.V. 2018** Metal and metal oxide nanostructures for sensor applications. p. 18-19 In: Gurunathan, K. (ed.) *Two days International Conference on Advanced Nanomaterial, 26 & 27th February, 2018: abstract book.* Karaikudi: Alagappa University.
- Kennedy, J.V.; Murmu, P.P.; Kumar, P.; Hippalgaonkar, K.; Ramanath, G. 2018** Isovalent ion implantation into bismuth telluride and its effect on thermoelectric properties. p. 35 In:

21st International Conference on Ion Beam Modification of Materials, June 24-29, 2018, San Antonio, Texas, USA. IBMM.

- Keranen, K.M.; Peterson, D.E.; Lara, L.; Miller, C.A.; Garibaldi, N.; Tikoff, B.; Williams-Jones, G.; Tassara, A. 2018** Fault accommodated magmatic localization beneath Laguna del Maule. abstract 328053 In: *Merging geophysical, petrochronologic, and modeling perspectives of large silicic magma systems: AGU Chapman Conference, Quinamavida, Maule Region, Chile, 7-12 January 2018*. Washington, D.C.: American Geophysical Union.
- Kereszturi, G.; Schaefer, L.; Miller, C.A.; Mead, S.; Kennedy, B.; Procter, J. 2018** Integrating airborne hyperspectral and aero-magnetic surveys for building 3-D geotechnical model of Mt Ruapehu. p. 150 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Kilgour, G.N.; Rowe, M.; Schipper, C.; Nichols, A.; Garaebiti, E.; Fabre, E. 2018** The current eruption of Ambae volcano: initial geological results. p. 151 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Knepley, M.; Aagaard, B.; Williams, C.A. 2018** Nonlinear constitutive laws of fault dynamics. abstract D123A-04 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Knowling, M.J.; White, J.; Kim, J.; Moore, C.R. 2018** A modelling tool for real-time nitrate-loading optimization under uncertainty and decision support: the stochastic impulse-response emulator. p. 190-191 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Kodaira, S.; Fujie, G.; Arai, R.; Obana, K.; Yamamoto, Y.; Miura, S.; Mochizuki, K.; Nakatani, Y.; Henrys, S.A.; Barker, D.H.N.; Bassett, D.; Hillman, J.I.T.; van Avendonk, H.J.; Bangs, N.L. 2018** Along-strike variation of incoming plate to the Hikurangi seismogenic zone: results from Seismogenesis at Hikurangi Integrated Research Experiment (SHIRE). abstract T51I-0283 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Kroeger, K.F.; Crutchley, G.J.; Kellett, R.L.; Barnes, P. 2018** A new 3-D model of Pegasus Basin predicts gas hydrate distribution along the Hikurangi Margin. p. 154 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Kroeger, K.F.; Thrasher, G.; Sarma, M. 2018** The middle Miocene in southern Taranaki Basin: a record of oceanographic and tectonic change. p. 155 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Ktenidou, O.-J.; Van Houtte, C.; Halldorsson, B. 2018** From source to site: understanding and modelling high-frequency attenuation of earthquake ground motion. Abstract S30 In: D'Amico, S.; Galea, P.; Bozionelos, G.; Colica, E.; Farrugia, D.; Agis, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission*. Messina: Mistral Service.
- Kubota, T.; Saito, T.; Ito, Y.; Hino, R.; Suzuki, S.; Kaneko, Y.; Wallace, L.M. 2018** Estimating centroid location and source dimension of the Te Araroa earthquake (Mw 7.1), New Zealand by analyzing direct and reflected tsunamis. abstract SSS06-P03 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Kubota, T.; Saito, T.; Ito, Y.; Kaneko, Y.; Wallace, L.M.; Suzuki, S.; Hino, R.; Henrys, S.A. 2018** Utilizing coastal-reflected tsunami waves observed by the ocean bottom pressure gauges to improve offshore earthquake source parameters: application to the 2016 Te Araroa earthquake, New Zealand (Mw 7.0). abstract T511-0294 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Langridge, R.M.; Howarth, J.D.; Villamor, P.; Fitzsimons, S.; Cochran, U.A.; Ries, W.F.; Strong, D.T.; Sagar, M.W. 2018** Reconciling on- and off-fault paleo-seismic and paleo-slip records for the northern section of the Alpine Fault near Springs Junction. p. 157 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Langridge, R.M.; Van Dissen, R.J.; Nicol, A.; Pettinga, J.; Stirling, M.W.; Barrell, D.J.A.; Almond, P.; Williams, J.; Stahl, T.; Pedley, K.; Brough, T. 2018** Paleoseismicity of 2016 MW 7.8 Kaikoura earthquake faults: was this event the norm or one "out of the park"? p. 158 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Lanza, F.; Chamberlain, C.J.; Jacobs, K.; Warren-Smith, E.; Thurber, C.H.; Savage, M.K.; Kortink, M.; Godfrey, H.J. 2018** High-precision relocation of the aftershock sequence of the November 14, 2016, Mw 7.8 Kaikoura earthquake, New Zealand. p. 891 In: *2018 Seismology of the Americas Meeting: Latin American and Caribbean Seismological Commission, Seismological Society of America, 14-17 May 2018, Miami, Florida*. Albany, Calif.: Seismological Society of America. *Seismological research letters 89(2B)*

- Lanza, F.; Eberhart-Phillips, D.M.; Thurber, D.H.; Chamberlain, C.J.; Jacobs, K.; Warren-Smith, E.; Savage, M.K. 2018** Velocity structure and relocated aftershocks in the Kaikoura to Palmerston region, New Zealand, from body-wave seismic tomography. abstract T51I-0281 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Law, S.; Saunders, K.; Boyce, A.; Kilgour, G.N.; Bromley 2018** Using basalts as proxies for mafic magma plumbing system in the Taupo Volcanic Zone. p. 160 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Leath, J.; Handler, M.; Schipper, I.; Wysoczanski, R.; Timm, C. 2018** Metals in subduction-related magmas: insights from melt inclusions and associated glassy groundmass from the southern Kermadec Arc, New Zealand. p. 161 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Lee, D.; Kaulfuss, U.; Bannister, J.; Lidqvist, J.; Vanner, M.; Reichgelt, T.; Kennedy, E.M.; Mildenhall, D.C. 2018** Diverse Oligocene-Miocene paleoenvironments and complex forest ecosystems in southern Zealandia. p. 162 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Lee, J.M.; Rattenbury, M.S.; Barrell, D.J.A.; Begg, J.G.; Jones, K.E. 2018** Conveying geoscience information in New Zealand urban areas. p. 163 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Leveneuer, J.; Kennedy, J.V.; Davidson, R. 2018** New surface processing technology for New Zealand manufacturing. p. 84 In: *MaD2018: a collaborative future for NZ manufacturing and design, 21-22 May 2018, ANZ Viaduct Events Centre, Auckland*. Manufacturing and Design NZ.
- Levy, R.H.; Meyers, S.; Golledge, N.R.; Naish, T.R.; Crampton, J.S.; McKay, R.; DeConto, R.; De Santis, L.; Gasson, E.; Harwood, D.; Luyendyk, B. 2018** Antarctic Ice Sheet evolution explained by CO₂ changes and obliquity sensitivity. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.
- Levy, R.H.; Meyers, S.; Naish, T.R.; Golledge, N.R.; McKay, R.; Crampton, J.S.; DeConto, R.; De Santis, L.; Florindo, F.; Gasson, E.; Harwood, D.; Luyendyk, B.; Powell, R.; Clowes, C.D.; Kulhanek, D.K. 2018** Antarctic ice sheet-ocean connections enhance

earth system sensitivity to obliquity forcing. p. 167 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Levy, R.H.; Naish, T.R.; Golledge, N.R.; Bell, R. 2018 Te Tai Pari O Aotearoa: New Zealand Sea Rise Programme. p. 168 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Lindsay, D.; Hamling, I.J.; Townend, J. 2018 Investigation of complex induced slip below Fiordland. p. 169 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Lindsay, D.; Hamling, I.J.; Townend, J. 2018 Investigation of induced slip below Fiordland, New Zealand. abstract G23B-0593 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Litchfield, N.J.; Wallace, L.M. 2018 Subduction zone observatory initiatives and opportunities in New Zealand. abstract SS08-A004 In: *15th Annual Meeting Asia Oceania Geosciences Society, 03-08 Jun 2018, Honolulu, Hawaii*. Asia Oceania Geoscience Society.

Litchfield, N.J.; Wallace, L.M.; Cochran, U.A.; Hreinsdottir, S.; Clark, K.J.; Hamling, I.J. 2018 Tectonic deformation over multiple timescales along the Hikurangi Subduction Margin, New Zealand (invited). abstract SE21-A020 In: *15th Annual Meeting Asia Oceania Geosciences Society, 03-08 Jun 2018, Honolulu, Hawaii*. Asia Oceania Geoscience Society.

Little, T.; Van Dissen, R.J.; Morris, P.; Hemphill-Haley, M.; Kearsse, J.; Vermeer, J.; Norton, K.; Petherick, L.; Hill, M.P.; Buck, J. 2018 Structural geology of a moletrack accommodating 9-plus meters of transpressional strike-slip during the 2016 M_w 7.8 Kaikoura earthquake, Kekerengu Fault, New Zealand. p. 170 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Loho, T.; Leveneur, J.; Kennedy, J.V. 2018 Effects of surface topography and chemistry modifications of stainless steel through ion implantation on icephobicity. p. 41 In: Yarlagadda, P.K.D.V.; Hasan, J.; Jaggessar, A. (eds.) *GCMM 2018 abstract booklet & conference program*. Brisbane, Qld.: Queensland University of Technology.

Lowry, D.P.; Golledge, N.R.; Menviel, L.; Bertler, N.A.N. 2018 Deglacial evolution of regional Antarctic climate and Southern Ocean conditions in transient climate simulations. p. 171 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier:*

abstract volume. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Marsaglia, K.; Franco, A.; Adedeji, A.; Noda, A.; Browne, G.H.; Wallace, L.M.; Saffer, D.; Barnes, P.M.; Pecher, I.A.; Petronotis, K.; LeVay, L. 2018** Sand sources and routing options along the Hikurangi Margin: using margins source-to-sink results from the Waipaoa sedimentary system to interpret Quaternary forearc and trench successions drilled on IODP Expeditions 372 and 375. p. 177 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Martin, A.P.; Smellie, J.; Townsend, D.B. 2018** Eruptions and lava-ice interactions elucidate past ice sheet characteristics. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.
- Martin, A.P.; Cooper, A.; Price, R.; Kyle, P.; Gamble, J. 2018** Petrogenesis of the lithospheric mantle beneath the Erebus volcanic province. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.
- Martin, A.P.; Cooper, A.; Price, R.; Kyle, P.; Gamble, J. 2018** Petrogenetic overview of the Erebus volcanic province, Antarctica: recent developments. p. 179 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Martin, A.P.; Gazley, M.; Turnbull, R.E.; Strong, D.T.; Frontin-Rollet, G. 2018** Patterns in transformed pathfinder elements in soil related to orogenic-style mineralisation. p. 178 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Martindale, H.; van der Raaij, R.W.; Knowling, M.J.; Morgenstern, U. 2018** Quantifying groundwater discharge into rivers using radon-222. p. 156 In: *Ka mua, ka muri: looking back, moving forward: 50th NZFSS annual conference, Nelson, 10-14th December 2018: conference handbook*. Christchurch, N.Z.: New Zealand Freshwater Sciences Society.
- Martindale, H.; van der Raaij, R.W.; Knowling, M.J.; Morgenstern, U. 2018** Quantifying groundwater discharge using radon-222 to understand groundwater-surface water dynamics. p. 41 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Martindale, H.; van der Raaij, R.W.; Morgenstern, U.; Hadfield, J. 2018** Measuring actual denitrification to understand nitrogen attenuation. p. 94 In: *Ka mua, ka muri: looking back,*

moving forward: 50th NZFSS annual conference, Nelson, 10-14th December 2018: conference handbook. Christchurch, N.Z.: New Zealand Freshwater Sciences Society.

- Martindale, H.; van der Raaij, R.W.; Morgenstern, U.; Hadfield, J. 2018** Measuring actual denitrification to understand nitrogen loads through aquifers. p. 224-226 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Massey, C.I.; Carey, J.M.; Townsend, D.B.; Rosser, B.J.; Brideau, M.-A.; Kupec, J.; de Vilder, S.J.; Kellett, R.L.; Upton, P.; Lyndsell, B.M. 2018** Overview of the stability of land in dynamic environment project, Wellington region. p. 180 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Massey, C.I.; Lukovic, B. 2018** A prototype earthquake-induced landslide forecast tool for New Zealand. p. 109-111 In: *The abstract book of MEGE 2018: the 5th International Symposium on Mega Earthquakes Induced Geo-disasters and Long Term Effects.* Chengdu, China: State Key Laboratory of Geohazard Prevention and Geoenvironment Protection.
- Massin, F.; Böse, M.; Behr, Y.; Clinton, J. 2018** EEW in SC3: FinDer and Virtual Seismologist. abstract S27-824 In: D'Amico, S.; Galea, P.; Bozionelos, G.; Colica, E.; Farrugia, D.; Agis, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission.* Messina: Mistral Service.
- Massiot, C.; Kissling, W.M.; Nicol, A.; McNamara, D.D.; IODP Expedition 376 Scientists 2018** Structure and fluid flow in andesitic systems of the Taupo Volcanic Zone: a framework to unravel sub-seafloor hydrothermal flows at Brothers volcano, Kermadec Arc? p. 181 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Massiot, C.; Kissling, W.M.; Nicol, A.; McNamara, D.D.; IODP Expedition 376 Scientists 2018** Structure and fluid flow in andesitic systems of the Taupo Volcanic Zone: a framework to unravel sub-seafloor hydrothermal flows at Brothers volcano, Kermadec Arc? abstract V33A-04 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Matoza, R.S.; Chouet, B.; Dawson, P.; Jolly, A.D.; Fee, D.; Iezzi, A.M.; Johnson, R.; Kilgour, G.N.; Christenson, B.W.; Garaebiti, E.; Kennedy, B.; Fitzgerald, R.; Key, N. 2018** Seismo-acoustic wavefield of Strombolian explosions at Yasur volcano, Vanuatu, using a broadband seismo-acoustic network. p. 799 In: *2018 Seismology of the Americas Meeting: Latin American and Caribbean Seismological Commission, Seismological*

Society of America, 14-17 May 2018, Miami, Florida. Albany, Calif.: Seismological Society of America. Seismological research letters 89(2B)

Matsumoto, F.; Hamling, I.J.; Hreinsdottir, S.; Yamada, T.; Furuya, M. 2018 Source model of the 2016 Valentine's day earthquake (Mw 5.7) off the east of Christchurch, New Zealand, inferred from InSAR and GPS. abstract STT48-P04 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan.* Tokyo: Japan Geoscience Union.

McBride, S.K.; Wein, A.M.; Marzocchi, W.; Kamaya, N.; Michael, A.J.; Becker, J.S.; Potter, S.H.; Page, M.T.; van der Elst, N.J.; Gerstenberger, M.C. 2018 Previsioni operative del terremoto, Sosa-Jo no jishin yochi, and operational earthquake forecasts: exploring how operational earthquake forecasts are communicated in Italy, Japan, New Zealand, and the United States. p. 915-916 In: *2018 Seismology of the Americas Meeting: Latin American and Caribbean Seismological Commission, Seismological Society of America, 14-17 May 2018, Miami, Florida.* Albany, Calif.: Seismological Society of America. Seismological research letters 89(2B)

McGuire, J.; Kaneko, Y.; Fan, W. 2018 Directly estimating earthquake rupture area using second moments to reduce the uncertainty drop. p. 913 In: *2018 Seismology of the Americas Meeting: Latin American and Caribbean Seismological Commission, Seismological Society of America, 14-17 May 2018, Miami, Florida.* Albany, Calif.: Seismological Society of America. Seismological research letters 89(2B)

McKinney, E.; Marshall, J.S.; Angenent, J.; Hamel, J.E.; Miller, C.N.; Valenciano, J.; White, C.J.; Zohbe, N.M.; Clark, K.J.; Litchfield, N.J. 2018 Coseismic uplift and coastal emergence along the southern Hikurangi Margin, North Island, New Zealand. abstract T51I-0285 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.

McSaveney, M.J.; Hu, W. 2018 An update on the hot topic of long-runout rock avalanches. p. 17-20 In: *The abstract book of MEGE 2018: the 5th International Symposium on Mega Earthquakes Induced Geo-disasters and Long Term Effects.* Chengdu, China: State Key Laboratory of Geohazard Prevention and Geoenvironment Protection.

Mead, S.; Kereszturi, G.; Miller, C.A.; Schaefer, L.N. 2018 Building a model of collapse and debris flow hazards at Mt. Ruapehu with remote sensing. abstract V51D-0136 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.

Michalski, G.; Li, J.; Wilkens, B.; Katzman, T.L.; Harvey, M.; Davy, P.K. 2018 Seasonal variations in $\delta^{15}\text{N}$ of nitrate aerosols collected in Baring Head, New Zealand: indicator of atmospheric nitrogen chemistry in pristine marine boundary layer. abstract A21M-2920 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.

- Mikaloff-Fletcher, S.E.; Loh, Z.M.; Brailsford, G.W.; Pinkerton, M.; Behrens, E.; Krummel, P.B.; Langenfelds, R.L.; Law, C.S.; Moss, R.C.; Nichol, S.; Stavert, A.; Sutton, P.; Noll, B.; Turnbull, J.C. 2018** How did the 2017/2018 heat wave over the Tasman Sea affect ocean carbon uptake and biogeochemistry? abstract OS31C-05 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Milicich, S.D.; Massiot, C. 2018** Volcanic texture identification using a borehole resistivity image log in the Whakamaru Group Ignimbrite, Wairakei Geothermal Field, New Zealand. p. 189 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Miller, C.A.; Currenti, G.M.; Hamling, I.J.; Williams-Jones, G. 2018** Mass transfer processes in a post eruption hydrothermal system: parameterisation of microgravity changes at Te Maari craters, New Zealand (Invited). abstract G14A-06 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Miller, C.A.; Kang, S.G.; Fournier, D.; Hill, G. 2018** Distribution of vapour and condensate in a hydrothermal system: insights from self-potential inversion at Mount Tongariro, New Zealand. abstract NS41A-0806 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Miller, C.A.; Williams-Jones, G.; Le Mével, H.; Currenti, G.M.; Tikoff, B. 2018** A shallow magma reservoir at Laguna del Maule Volcanic Field, and its influence on regional fault structure: insights from static and time-varying gravity models. abstract 303566 In: *Merging geophysical, petrochronologic, and modeling perspectives of large silicic magma systems: AGU Chapman Conference, Quinamavida, Maule Region, Chile, 7-12 January 2018*. Washington, D.C.: American Geophysical Union.
- Millman, H.; Phipps, S.; Golledge, N.R.; Fogwill, C.; Turney, C.; Nobajas, A. 2018** Rapid ocean-driven West Antarctic Ice Sheet collapse under Last Interglacial climate forcings. abstract EGU2018-2771 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Mitchell, L.; Lin, J.C.; Cohen, R.C.; Davis, K.J.; Duren, R.M.; Falk, M.; Guha, A.; Keeling, R.F.; Kim, J.; Miles, N.; Newman, S.; Ren, X.; Rice, A.L.; Richardson, S.; Sargent, M.R.; Turnbull, J.C.; Verhulst, K.R.; Weiss, R.F.; Wofsy, S.C. 2018** A new harmonized multi-city greenhouse gas data product and its applications (Invited). abstract A52G-01 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Mochizuki, K.; Henrys, S.A.; Sutherland, R.; Okaya, D.A.; Yamada, T.; Shinohara, M.; Iwasaki, T.; Sato, H.; Arai, R.; Fujie, G.; Yamamoto, Y.; Nakatani, Y.; Kodaira, S.;**

- Barker, D.H.N.; Bassett, D.; Van Avendonk, H.J.; Bangs, N.L. 2018** Subduction structure of the Hikurangi Plateau, from travel-time inversion of OBS data, offshore of the Wellington region, the southern North Island, New Zealand. abstract T511-0289 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Moreau, M.; Hadfield, J.; Hughey, J.; Sanders, F.; Lapworth, D.; White, D.; Civil, W. 2018** Emerging organic contaminants in New Zealand groundwaters: pilot assessment in the Waikato region. p. 247-248 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Moreau, M.; White, P.A.; Tschirter, C.; Rawlinson, Z.J.; Westerhoff, R.S.; Cameron, S.G. 2018** A national classification for New Zealand hydrogeological systems. p. 89-90 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Morgenstern, R.; Litchfield, N.J.; Villamor, P.; Van Dissen, R.J.; Langridge, R.M.; Clark, K.J.; Barrell, D.J.A. 2018** Reactivating the New Zealand Active Faults Database. p. 191 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Morgenstern, U.; Begg, J.G.; van der Raaij, R.W.; Moreau, M.; Knowling, M.J.; Martindale, H.; Daughney, C.J.; Franzblau, R.E.; Stewart, M.K.; Toews, M.W.; Trompetter, V.; Kaiser, J.; Gordon, D.; Rakowski, P.; Smith, J.; Wilding, T. 2018** Heretaunga Plains: groundwater dynamics and source from age tracers, isotopes, and hydrochemistry. p. 47 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Morgenstern, U.; Fiefield, K.L.; Ditchburn, R.G.; Delmas, R.; Petit, J.R. 2018** AMS measurement of ^{32}Si in Antarctic snow and ice. p. [49] In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Morgenstern, U.; Moore, C.R.; Daughney, C.J.; Cameron, S.G. 2018** Optimising water management based on understanding of flow sources, pathways and lags. p. 252 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Morgenstern, U.; Stewart, M.K.; McDonnell, J.; Cartwright, I.; Pfister, L. 2018** Tracing water through catchments using tritium. abstract EGU2018-11153 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*

- Morgenstern, U.; van der Raaij, R.W.; Begg, J.G.; Stewart, M.K. 2018** Groundwater dynamics and sources from age tracers, isotopes and hydrochemistry at the Heretaunga Plains, New Zealand. abstract AHW23-06 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Morgenstern, U.; van der Raaij, R.W.; Begg, J.G.; Stewart, M.K. 2018** Groundwater dynamics and sources from age tracers, isotopes, and hydrochemistry. abstract AHW23-06 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Morgenstern, U.; van der Raaij, R.W.; Begg, J.G.; Stewart, M.K.; Daughney, C.J.; Toews, M.W. 2018** Groundwater dynamics and sources from age tracers, isotopes, and hydrochemistry: an example from the Heretaunga Plains, New Zealand. abstract EGU2018-11228 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Mortimer, N. 2018** Jurassic Zealandia. p. 192 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Mountjoy, J.J.; Howarth, J.D.; Orpin, A.R.; Barnes, P.; Bowden, D.; Rowden, A.A.; Schimel, A.; Holden, C.; Horgan, H.J.; Nodder, S.; Patton, J.R.; Lamarche, G.; Gerstenberger, M.C.; Micallef, A.; Pallentin, A.; Kane, T. 2018** Geomorphic impacts of earthquake-triggered flushing of Kaikoura Canyon following the 14 November 2016 M7.8 Kaikoura earthquake, New Zealand. abstract OS11A-05 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Mourot, F. 2018** Groundwater supply protection zones in France: case study and perspectives in New Zealand. p. 253-254 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Mouslopoulou, V.; Saltogianni, V.; Nicol, A.; Oncken, O.; Begg, J.G.; Babeyko, A.; Cesca, S.; Moreno, M. 2018** Breaking a subduction-termination from top to bottom: the large 2016 Kaikoura Earthquake, New Zealand. abstract T41C-02 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Mueller, C.; Micallef, A.; Spatola, D.; D'Amico, S.; Grechlicari, J. 2018** Malta's tsunami inundation hazard: preliminary results. abstract S35-806 In: D'Amico, S.; Galea, P.; Bozionelos, G.; Colica, E.; Farrugia, D.; Agis, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission*. Messina: Mistral Service.

- Mueller, C.; Power, W.L. 2018** Local source probabilistic tsunami inundation hazard assessment with machine learning support. p. 193 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Muramoto, T.; Ito, Y.; Inazu, D.; Hino, R.; Suzuki, S.; Yamashita, Y.; Wallace, L.M. 2018** Evaluation of seafloor crustal deformation using ocean bottom pressure with non-tidal variability corrections on local array measurements: application to the Hikurangi margin. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.
- Nicol, A.; Khajavi, N.; Kearse, J.; Van Dissen, R.J.; Stirling, M.W.; Gerstenberger, M.C. 2018** How important are multi-fault ruptures in New Zealand earthquakes? p. 197 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Nimau, J.; Garaebiti, E.; Korisa, P.; Ungaro, J.; Lin, S.-L. 2018** Modelling disaster risk in Vanuatu. In: *STAR 2018: The Pacific Islands Science, Technology and Resources Conference, 10-13 July 2018, Suva, Fiji*. STAR.
- Norris, M.; Howarth, J.D.; Turnbull, J.C.; Vandergoes, M.J. 2018** Radiocarbon pre-treatment of small terrestrial macrofossils. p. 202 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- O'Brien, G.; Kellett, R.L. 2018** Imaging the Kaikoura aftershock sequence on a 3-D marine seismic streamer. p. 203 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- O'Toole, L.; Williams, S.; Dadd, K.; Crundwell, M.P.; Seton, M.; Mortimer, N.; Etienne, S.; Collot, J. 2018** Newly discovered intraplate volcanoes on the Fairway Ridge, northern Zealandia. p. 464 In: *AGCC 2018 abstract volume: Australian Geoscience Council Convention: big issues and ideas in geoscience, 14-18 October 2018*. Australian Geoscience Council.
- Oestricher, N.; Cox, S.C.; Townend, J.; Denys, P. 2018** Groundwater induced surface deformation in the central Southern Alps, New Zealand. p. 60-62 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1*. [Wellington, N.Z.]: New Zealand Hydrological Society.

- Okada, T.; Sato, T.; Iio, Y.; Matsumoto, S.; Bannister, S.; Ristau, J.; Ohmi, S.; Horiuchi, S.; Miura, T.; Savage, M.; Pettinga, J.; Ghisetti, F.; Sibson, R. 2018** Stress and strength control on the 2016 Kaikoura earthquake inferred from seismic observations. p. 206 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Oliva, S.J.C.; Ebinger, C.; Rivalta, E.; Wauthier, C.; Williams, C.A. 2018** Quantifying state-of-stress and surface deformation in magmatic rift zones: Eastern Rift, Africa. abstract V31H-0222 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Oluwunmi, P.; Pecher, I.A.; Archer, R.; Reagan, M.; Moridis, G.; Crutchley, G.J.; Stewart, L.C.; Bowden, D.; Rowden, A. 2018** Possible reversal of fluid flow at the seafloor following gas production from methane hydrates: numerical simulation studies. p. 207 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Oluwunmi, P.A.; Pecher, I.A.; Archer, R.; Reagan, M.T.; Moridis, G.J.; Crutchley, G.J.; Stewart, L.C.; Bowden, D.; Rowden, A.A. 2018** Numerical simulation of methane gas production from a permeable-overburden gas hydrate reservoir on the Hikurangi margin east of New Zealand. abstract OS11B-1420 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Op Den Kelder, T.; Moore, C.R.; Knowling, M.J.; Toews, M.W.; White, J. 2018** Using predictive uncertainty analysis to optimise data acquisition for stream depletion predictions. p. 262-264 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Orpin, A.; Howarth, J.D.; Strachan, L.; Bostock, H.; Barnes, P.; Hopkins, J.; McKeown, M.; Banks, S.; Çatağay, M.; Patton, J.; Lamarche, G.; Wallace, L.M. 2018** Characterisation of the Holocene turbidite record preserved in sedimentary distributary catchments along the tectonically-active southern Hikurangi Margin. p. 208 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Palmer, M.; Scott, J.; Pearson, G.; Luo, Y.; Turnbull, R.E.; Reid, M. 2018** Using the geochemical signatures of scheelite as a tool for determining the provenance of its constituent metals and mineralising fluids. p. 210 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Panter, K.S.; Castillo, P.; Krans, S.; Reindel, J.; Martin, A.P.; Smellie, J.L. 2018** On the origin of intraplate volcanism in Antarctica. In: *Goldschmidt 2018 abstracts*. Cambridge, U.K.: White Iron Conferences Limited.
- Pareira, T.M.; Kennedy, J.V.; Potgieter, J. 2018** A comparison of traditional manufacturing vs additive manufacturing, the best method for the job. p. 35 In: Yarlagadda, P.K.D.V.; Hasan, J.; Jaggessar, A. (eds.) *GCMM 2018 abstract booklet & conference program*. Brisbane, Qld.: Queensland University of Technology.
- Park, I.; Jolly, A.D.; Kim, K.; Kennedy, B. 2018** Long-term evolution of low frequency earthquakes at Ngauruhoe Volcano, New Zealand. p. 212 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Pecher, I.A.; Barnes, P.; Heeschen, K.; Torres, M.; Cook, A.; Moore, G.; Dugan, B.; Mountjoy, J.; Crutchley, G.J.; Expedition 372 Scientific Party; Expedition 375 Scientific Party 2018** Gas hydrates beneath the Tuaheni Landslide Complex, New Zealand. First results from IODP Expedition 372. abstract EGU2018-4221-1 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Pecher, I.A.; Oluwunmi, P.; Djefal, A.; Bangs, N.; Crutchley, G.J.; Mountjoy, J.; Villinger, H.; Barnes, P.; Heeschen, K.; Dugan, B.; Reagan, M.; Moridis, G.; Archer, R.; Saffer, D.; Wallace, L.M.; LeVay, L.; Petronotis, K. 2018** Response of gas hydrate systems to tectonics, sedimentation, and fluid flow: Hikurangi Margin, New Zealand. p. 214 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Pecher, I.A.; Oluwunmi, P.A.; Djefal, A.; Bangs, N.L.; Crutchley, G.J.; Mountjoy, J.J.; Barnes, P.; Heeschen, K.U.; Dugan, B.; Reagan, M.T.; Moridis, G.J.; Archer, R.; Saffer, D.M.; Wallace, L.M.; LeVay, L.; Petronotis, K.E. 2018** Response of gas hydrate systems to subduction-zone processes on the northern Hikurangi margin, New Zealand. abstract T54C-08 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Phillips, A.; Baisden, W.T.; Immers, A.; Cooper, J. 2018** Dual-isotope nitrate measurements to support nitrogen management in New Zealand. p. [51] In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Picard, M.; Pochon, X.; Laroche, O.; Rees, A.; Howarth, J.D.; Schallenberg, M.; Moy, C.; Vandergoes, M.J.; Hawes, I.; Wood, S. 2018** Tracking historical cyanobacterial communities in five contrasting shallow New Zealand lakes. p. 110 In: *Ka mua, ka muri: looking back, moving forward: 50th NZFSS annual conference, Nelson, 10-14th*

December 2018: conference handbook. Christchurch, N.Z.: New Zealand Freshwater Sciences Society.

- Pickle, R.; Eccles, J.; Hreinsdottir, S.; Rowland, J.; Palmer, N.G. 2018** Active structures in the northern North Island interpreted from GNSS geodesy. p. 216 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Pizer, C.; Clark, K.J.; Howarth, J.D.; Garrett, E.; Woodroffe, S. 2018** Paleotsunami deposits within Lake Grassmere, southern Hikurangi Margin, New Zealand. p. 218 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Power, W.L.; Lukovic, B.; Heron, D.W.; Carter, L.; Thomas, K.-L.; Hudson-Doyle, E.; Boersen, K.; Wilson, T.; Tilley, L.; Leonard, G.S.; Johnston, D.M.; Kirkman, R.; Harte, D.S. 2018** Agent-based modelling of tsunami evacuations. p. 219 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Prebble, J.G.; Li, X.; Dunbar, G.; Vandergoes, M.J.; Richardson, S.; Holt, K.; Smith, E. 2018** A novel multi-century archive of tree mast using pollen from lake sediments. p. 220 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Prentice, M.; Rosenberg, M.D.; Pittari, A.; Lowe, D.; Kilgour, G.N. 2018** The 2.1 Ma Waiteariki Ignimbrite: product of a large explosive silicic eruption during the Coromandel-Taupo transition. p. 221 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Pretty, R.; Mckay, R.; Dunbar, G.; Naish, T.R. 2018** Ice dynamics and ocean productivity during the late Miocene offshore Wilkes Land, East Antarctica. p. 222 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Procter, J.; Kenney, C.; Black, T.; Harmsworth, G.; Saunders, W.S.A.; King, D.; Awatere, S.; Potangaroa, R. 2018** Methods to build resilience in indigenous communities: a case study from Maori, New Zealand. abstract EGU2018-13630 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018.* Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*

- Pure, L.R.; Leonard, G.S.; Wilson, C.J.N.; Charlier, B.L.A.; Gamble, J.A.; Calvert, A.T.; Cole, R.P. 2018** New perspectives from mapping and high-resolution $^{40}\text{Ar}/^{39}\text{Ar}$ dating of Tongariro volcano, New Zealand: implications for stratovolcano lifecycles, glaciovolcanism and tectonic-volcano interactions. abstract V31F-0175 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Raine, J.I. 2018** Stratigraphic review of the New Zealand Jurassic flora. p. 223 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Rajanayaka, C.; Zammit, C.; Knowling, M.J.; Moore, C.R.; Yang, J. 2018** Assessing the impact of model simplification on river flow reliability predictions: a synthetic example. p. 289-290 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Rakowski, P.; Knowling, M.J.; White, J. 2018** Stochastic response function for stream depletion assessment: practical implementation in Hawke's Bay. p. 291-292 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Rattenbury, M.S. 2018** Nationally significant and important geoscience collections and databases. p. 226 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Rattenbury, M.S.; Heron, D.W.; Smith Lyttle, B. 2018** New geological maps and geological data products. p. 227 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Reysenbach A.L.; Caratori Tontini, F.; de Ronde, C.E.J.; Humphris, S.E.; Tivey, M.; Diehl, A.; Flores, G.; Schenker, V.; Stewart, L.C.; Stucker, V.K.; Walker, S.L. 2018** Hydrothermal and microbiological investigations of the active Brothers volcano in the Kermadec Arc (Invited). abstract V34A-01 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Rhoades, D.A.; Christophersen, A. 2018** Large recent earthquakes lead to increased probability of large earthquakes in central New Zealand. p. 231 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Riefstahl, F.; Gohl, K.; Davy, B.W.; Mortimer, N.; Jolis, E. 2018** Crustal structure of the Chatham Rise and Chatham Terrace: a key of understanding the earliest separation of New Zealand from Gondwana. abstract EGU2018-12018 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Ries, W.F.; Archibald, G.C.; Jones, K.E.; Massey, C.I.; Howarth, J.D.; Tunnicliffe, J.; Stahl, T.; Glade, T. 2018** Accuracy and quality of remotely sensed data for landslide studies: some challenges in response to the 2016 Kaikoura Earthquake, New Zealand. abstract EGU2018-11348 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Ries, W.F.; Massey, C.I.; Glade, T.; Jones, K.E.; Archibald, G.C. 2018** What didn't move? Some challenges with remotely sensed data collected in response to the 2016 Kaikoura earthquake, New Zealand. p. 114-115 In: *The abstract book of MEGE 2018: the 5th International Symposium on Mega Earthquakes Induced Geo-disasters and Long Term Effects*. Chengdu, China: State Key Laboratory of Geohazard Prevention and Geoenvironment Protection.
- Robertson, E.; Davey, F.J. 2018** Basement morphology under the Tongariro National Park, southern Taupo Volcanic Zone. p. 233 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Rodger, C.; Mac Manus, D.H.; Divett, T.; Dalzell, M.; Thomson, N.R.; Clarke, E.; Petersen, T.; Clilverd, M.A. 2018** New Zealand long term geomagnetically induced current observations: peak current estimates for extreme geomagnetic storms. p. 85 In: *14th Quadrennial Solar-Terrestrial Physics Symposium, July 9-13, 2018, York University, Toronto, Canada*. Toronto, Ont.: Scientific Committee on Solar Terrestrial Physics.
- Rodger, C.J.; Clilverd, M.A.; Martin, I.; Dalzell, M.; Brundell, J.B.; Mac Manus, D.H.; Divett, T.; Thomson, N.R.; Petersen, T.; Obana, Y. 2018** Geomagnetically induced currents and harmonic distortion: observations from New Zealand. In: *Fifteenth European Space Weather Week, November 5-9, 2018, Leuven, Belgium*. Brussels: Solar-Terrestrial Centre of Excellence.
- Rodger, C.J.; Divett, T.; Began, C.; Richardson, G.; Mac Manus, D.H.; Boteler, D.; Ingham, M.; Dalzell, M.; Thomson, A.; Petersen, T.; Obana, Y.; Clilverd, M. 2018** Improvement and validation of geomagnetically induced current modelling: need for consideration to the transformer-level. p. 2459 In: *COSPAR 2018 42nd Assembly: Scientific Assembly abstracts: July 14-22, 2018, Pasadena, California, USA*. July 2018. Committee on Space Research.

- Rogers, K.M. 2018** Geographical traceability using stable isotopes and multi-element fingerprints. p. [58] In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand.*
- Rogers, K.M.; Turnbull, R.E.; Martin, A.P.; Frontin-Rollet, G.; Rattenbury, M.S. 2018** Evaluating anthropogenic influences on New Zealand regional and urban soils using multi-isotopes and elements. p. 56 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand.*
- Rubin, K.H.; Chadwick, W.W.; Embley, R.W.; Merle, S.G.; Shank, T.M.; Cho, W.; Butterfield, D.A.; Timm, C.; Resing, J.A.; Baumberger, T.; Walker, S.L.; de Ronde, C.E.J.; Baker, E.T.; Lupton, J.E. 2018** Exploration of the Mata submarine volcano group reveals volcano-tectonic-hydrothermal links. abstract V14A-08 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Sahoo, T.R.; Browne, G.H.; Nicol, A. 2018** Cretaceous fault evolution in the Great South Basin: observations from fault growth analysis. p. 235 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Salichon, J. 2018** The GeoNet project: 7-th year of SeisComp3 geohazards monitoring in New Zealand and its future. abstract S27-233 In: D'Amico, S.; Galea, P.; Bozionelos, G.; Colica, E.; Farrugia, D.; Agius, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission.* Mistral Service: Messina.
- Salichon, J. 2018** The GeoNet project: 7-th year of seiscomp3 geohazards monitoring in New Zealand and its future. abstract S27-233 In: D'Amico, S.; Galea, P.; Bozionelos, G.; Colica, E.; Farrugia, D.; Agis, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission.* Messina: Mistral Service.
- Sato, T.; Okada, T.; Iio, Y.; Matsumoto, S.; Bannister, S.; Ristau, J.; Ohmi, S.; Miura, T.; Pettinga, J.; Ghisetti, F.; Sibson, R.H. 2018** Spatiotemporal stress change during the 2016 Mw 7.8 Kaikoura earthquake, New Zealand. abstract SCG57-P25 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan.* Tokyo: Japan Geoscience Union.
- Savage, M.; Evanzia, D.; Wilson, T.; Hirschberg, H.; Henrys, S.A.; Okaya, D.; Karalliyadda, S.; Hall, C.; Lamb, S.; Stern, T. 2018** Wellington region structure and anisotropy. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018.* Wellington: Victoria University of Wellington.
- Savage, M.K.; Zal, H.; Jacobs, K.; Mroczek, S.; Graham, K.; Yancey, J.; Wang, W.-W.; Fry, B.; Todd, E.; Shaddock, H.; Nakai, J.; Iwasaki, Y.; Sheehan, A.; Mochizuki, K.;**

- Schwartz, S.; Wallace, L.M. 2018** Seismic velocity and anisotropy in a slow slip region of the Hikurangi Margin, New Zealand from ocean bottom seismometers. abstract SCG53-26 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Savage, M.K.; Zal, H.J.; Jacobs, K.; Mroczek, S.; Yarce, J.; Todd, E.; Shaddox, H.R.; Nakai, J.S.; Graham, K.M.; Iwasaki, Y.; Sheehan, A.F.; Mochizuki, K.; Schwartz, S.Y.; Webb, S.C. 2018** Seismic anisotropy and Vp/Vs changes measured on ocean bottom seismometers suggest fluid pressure changes occur with slow slip off the Hikurangi margin, New Zealand. abstract T51I-0292 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Savran, W.H.; Maechling, P.J.; Werner, M.J.; Jordan, T.H.; Schorlemmer, D.; Rhoades, D.A.; Marzocchi, W.; Yu, J.; Vidale, J.E. 2018** The collaboratory for the study of earthquake predictability version 2.0 (CSEP2.0): new developments in earthquake forecasting and testing capabilities. abstract SSE-0624 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Scholl, D.W.; Bebout, G.E.; Stern, R.J.; Wallace, L.M.; Agard, P. 2018** Twenty years of subduction zone science: *Subduction Top to Bottom 2 (ST2B-2)*. abstract T21F-0267 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Schorlemmer, D.; Hirata, N.; Cotton, F.; Gerstenberger, M.C.; Marzocchi, W.; Werner, M.; Wiemer, S.; Jordan, T.; Beutin, T.; Jackson, D.; Mak, S.; Nanjo, K.; Ogata, Y.; Rhoades, D.A.; Strader, A.; Tsuruoka, H.; Weatherill, G.; Yu, J.; Zhuang, J. 2018** Increasing earthquake forecast testability: CSEP future developments. abstract EGU2018-14720 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Schorlemmer, D.; Hirata, N.; Cotton, F.; Gerstenberger, M.C.; Marzocchi, W.; Werner, M.; Wiemer, S.; Jordan, T.; Beutin, T.; Jackson, D.D.; Mak, S.; Nanjo, K.; Ogata, Y.; Rhoades, D.A.; Tsuruoka, H.; Zhuang, J. 2018** Increasing testability, expanding possibilities. Some CSEP future developments. abstract SSS06-01 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Schuermans, R.; Nicol, A.; Arnot, M.J. 2018** Structural evolution of Solander Basin and implications for regional deformation in southern Zealandia. p. 240 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Schwarze, C.; Kukowski, N.; Freudenthal, T.; Crutchley, G.J.; Klauke, I.; Henrys, S.A.; Kuhlmann, J.; Goepel, A.; Jeromson, M.; Schulz, A.; Heinemann, P.; Huhn, K. 2018**

- Geomorphological features of the supercritical accretionary ridge Rock Garden, Hikurangi convergent margin, New Zealand. abstract EGU2018-12432-2 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Schwarze, C.; Kukowski, N.; Freudenthal, T.; Goepel, A.; Totsche, K.-U.; Crutchley, G.J.; Henrys, S.A.; Kasten, S.; Kaul, N.; Kuhlmann, J.; Mountjoy, J.; Orpin, A.; Pape, T.; Torres, M.; Villinger, H.; Schulz, A.; Heinemann, P.; Huhn, K. 2018** Rock Garden. abstract EGU2018-10215 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Sealing, C.R.; Christenson, B.W.; Hurst, A.W. 2018** Interpreting SP anomalies in a changing hydrothermal system on White Island, New Zealand. abstract NS41A-0810 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Seton, M.; Williams, S.; Mortimer, N.; Meffre, S.; Micklethwaite, S.; Zahirovic, S. 2018** Magma production along the Lord Howe Seamount Chain, northern Zealandia. p. 117 In: *AGCC 2018 abstract volume: Australian Geoscience Council Convention: big issues and ideas in geoscience, 14-18 October 2018*. Australian Geoscience Council.
- Seward, A.M.; Kilgour, G.N.; Schipper, C.; Matsuura, R. 2018** Thermal properties of basalt scoria. p. 244 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Seyfullah, L.; Lee, D.; Kaulfuss, U.; Schmidt, A.; Mildenhall, D.C.; Kennedy, E.M.; Conran, J.; Bannister, J.; Lindqvist, J. 2018** Amber and the Araucarian forests of New Zealand. p. 124 In: McElwain, J. (chair) *10th European Palaeobotany & Palynology Conference: program and abstracts: EPPC2018, University College Dublin, Ireland, 12-17 August 2018*. University College Dublin: Dublin.
- Shibazaki, B.; Wallace, L.M.; Kaneko, Y.; Hamling, I.J.; Ito, Y.; Matsuzawa, T. 2018** Modeling slow-slip events and their triggering by the Kaikoura earthquake along the Hikurangi subduction plate interface. abstract SCG52-P25 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Shibazaki, B.; Wallace, L.M.; Kaneko, Y.; Ito, Y.; Hamling, I.J.; Matsuzawa, T. 2018** Modeling slow-slip events and their triggering by the Kaikoura earthquake along the Hikurangi subduction plate interface. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.

- Simi, T.; Williams, S.; Paulik, R.; Crowley, K.; Lin, S.-L.; Scheele, F. 2018** Risk and loss modelling in Samoa. In: *STAR 2018: The Pacific Islands Science, Technology and Resources Conference, 10-13 July 2018, Suva, Fiji*. STAR.
- Sirisena, K.; Daughney, C.J.; Moreau, M.; Sim, D.A.; Lee, C.K.; Ryan, K.; Chambers, G. 2018** Bacterial community composition of NZ groundwater, predicted metabolic profiles and relationships to hydrochemistry and hydrocharacteristics. p. 88 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Smillie, R.W.; Hill, M.P.; Martin, A.P.; Rattenbury, M.S.; Tulloch, A.J.; Turnbull, R.E. 2018** The continent of Zealandia: implications for the mineral exploration potential of New Zealand. p. 662 In: *AGCC 2018 abstract volume: Australian Geoscience Council Convention: big issues and ideas in geoscience, 14-18 October 2018*. Australian Geoscience Council.
- Smillie, R.W.; Mortimer, N.; Tulloch, A.J.; Turnbull, R.E.; Martin, A.P.; Hill, M.P.; Rattenbury, M.S. 2018** Zealandia the Continent: a major upgrade for the mineral potential of New Zealand. p. 297 In: Bull, V. (convener) *Australasian Institute of Mining and Metallurgy 51st New Zealand Branch Annual Conference, Tauranga, New Zealand, September 17-18*. Australasian Institute of Mining and Metallurgy, New Zealand Branch.
- Sperlich, P.; Mikaloff-Fletcher, S.E.; Brailsford, G.W.; Moss, R.; Turnbull, J.C.; Keller, E.D.; Montzka, S.; Liang, M.-C. 2018** Where is the missing CO₂? A novel multi-species approach to trace and fate of atmospheric CO₂. p. [64] In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Sperlich, P.; Mikaloff-Fletcher, S.E.; Brailsford, G.W.; Moss, R.C.; Turnbull, J.C.; Keller, E.D.; Montzka, S.A.; Liang, M.-C. 2018** Where is the missing CO₂? A regional multi-species approach to trace the fate of atmospheric CO₂ in Fiordland National Park, New Zealand. abstract A43N-3314 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Stagpoole, V.M.; Geddes, E. 2018** Ten years of New Zealand extended continental shelf. p. 8 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Stern, T.; Henrys, S.A.; Mochizuki, K.; Okaya, D.; Lamb, S.; Herath, P.; Sutherland, R.; Savage, M. 2018** Nature of the subducted plate beneath eastern North Island: lithospheric structure of the Hikurangi Plateau. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.

- Stewart, M.K.; Morgenstern, U.; Gusyev, M.A.; Thomas, J. 2018** Residence times of water and chemical flows in a karst spring. abstract AHW23-01 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Stewart, M.K.; Morgenstern, U.; Toews, M.W.; van der Raaij, R.W.; Gusyev, M.A. 2018** Uncertainties of tritium streamflow transit times: experiments with single and double lumped parameter models. abstract EGU2018-11167 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Stewart, M.K.; Morgenstern, U.; Tsujimura, M.; Gusyev, M.; Sakakibara, K.; Imaizumi, Y.; Rutter, H.; van der Raaij, R.W.; Etheridge, Z.; Scott, S. 2018** Subsurface flowpaths of Christchurch springs. p. 341-343 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Stewart, M.K.; Toews, M.W.; van der Raaij, R.W.; Morgenstern, U.; Gusyev, M.A. 2018** Uncertainties of tritium streamflow ages. p. 66 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Stratford, W.R.; Sutherland, R.; IODP Expedition 371 scientists 2018** Northern Zealandian Cenozoic sedimentation and deformation constraints from IODP Voyage 371. p. 253 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Strenger, R.; Clague, J.; Morgenstern, U. 2018** Effect of varying flowpath contributions on longitudinal baseflow stream chemistry patterns. p. 338-340 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Strong, D.T.; Cox, S.C.; Rattenbury, M.S. 2018** Beck International Jade Research Collection. p. 255 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Strong, D.T.; Terezow, M. 2018** Life on the Wellington Fault: managing geological collections and earthquake risk. e26230; [doi: 10.3897/biss.2.26230](https://doi.org/10.3897/biss.2.26230) In: *SPNHC+TWDG 2018 Conference: collections and data in an uncertain world*. Pensoft. Biodiversity Information Science Standards 2
- Strong, D.T.; Turnbull, R.E.; Markwitz, A. 2018** Hazardous materials in geological collections. p. 256 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018,*

Napier: abstract volume. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Stucker, V.K.; de Ronde, C.E.J.; Diehl, A. 2018** Evolution of hydrothermal fluids at Brothers submarine volcano, Kermadec arc, New Zealand. abstract V34A-04 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Suganuma, Y.; Kuhn, G.; Hillenbrand, C.-D.; Zondervan, A. 2018** Reconstruction of ice retreat history in Pine Island Bay, West Antarctica, based on sedimentary Be-10 records. abstract MIS06-16 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Tape, C.; Silwal, V.; Hawthorne, J.; Kaneko, Y.; Ampuero, J.-P.; Ji, C.; Ruppert, N.A.; Smith, K.; West M.E. 2018** Earthquake nucleation and fault slip complexity in the lower crust of central Alaska (Invited). abstract T43B-03 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Tarasova, O.; Vermeulen, A.; Ueno, M.; Dlugokencky, E.; Turnbull, J.C. 2018** The state of greenhouse gases in the atmosphere using global observations through 2016. abstract EGU2018-4733 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Thomas, E.; Medley, B.; van Wessem, M.; Isaksson, E.; Schlosser, E.; Vallelonga, P.; Lenaerts, J.; Bertler, N.A.N.; van den Broeke, M. 2018** Antarctic snow accumulation over the past 200 years. abstract EGU2018-1964 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Timm, C.; de Ronde, C.E.J.; Cousens, B.; Caratori Tontini, F. 2018** Colville Ridge: new clues about the history of northern Zealandia and petrogenesis in the Kermadec arc system. abstract EGU2018-9897 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Timm, C.; de Ronde, C.E.J.; Hannington, M.; Portnyagin, M.; Arculus, R. 2018** Goldtrace: tracking gold in arc lavas. p. 264 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Tinkler, R.; Holt, K.; Vandergoes, M.J.; Rees, A.; Neall, V.; Cronin, S.; Wilmshurst, J. 2018** Long Late Quaternary record of vegetation and temperature change from Eltham Swamp, Taranaki. p. 265 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Todd, E.; Stirling, M.W.; Fry, B.; Villamor, P. 2018** Characterising seismicity in a low-seismicity region around Dunedin, New Zealand. p. 266 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Toews, M.W.; Moore, C.R.; Westerhoff, R.S. 2018** Groundwater flow and transport model simplifications using equilibrium water table and particle pathline methods. p.358-360 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Trompeter, V.; van der Raaij, R.W. 2018** Creating a groundwater isoscape for New Zealand. p. 113 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Truax, O.; Riesselman, C.; Wilson, G.; Parker, R.; Yoo, K.-C.; Lee, J.I.; Levy, R.H.; McKay, R. 2018** Holocene climate evolution off Northern Victoria Land, East Antarctica. In: *POLAR 2018: where Poles come together: A SCAR & IASC Conference, Davos, Switzerland, 15-26 June 2018*. Davos: WSL Institute for Snow and Avalanche Research SLF.
- Tseng, K.H.; Ogawa, Y.; Kunitomo, T.; Fukai, M.; Bertrand, E.A.; Kinoshita, Y.; Minami, T. 2018** EM ACROSS experiment at Kusatsu-Shirane volcano. SEM16-08 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Tsujimura, M.; Sakakibara, K.; Imaizumi, Y.; Gusyev, M.A.; Morgenstern, U.; Stewart, M.K. 2018** Spatial and temporal variation of residence time of spring and groundwater in multiple watersheds, Japan and New Zealand. p. [72] In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Tsujimura, M.; Sakakibara, K.; Katsuyama, M.; Mizugaki, S.; Gusyev, M.A.; Yamamoto, C.; Sugiyama, A.; Ogawa, M.; Kato, K.; Yamada, T.; Yano, S.; Sasakura, N.; Morgenstern, U.; Stewart, M.K. 2018** Integrated study on spatiotemporal variation of residence time in spring and groundwater at headwater catchments. Abstract AHW23-02 In: *Japan Geoscience Union Meeting, May 20-24, 2018 Makuhari Messe, Chiba, Japan*. Tokyo: Japan Geoscience Union.
- Turco, F.; Gorman, A.; Crutchley, G.J. 2018** Geophysical characterisation of gas hydrate systems on New Zealand's southern Hikurangi subduction margin. p. 269 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Turney, C.; Fogwill, C.; Golledge, N.R.; McKay, N.; van Sebille, E.; Jones, R.; Etheridge, D.; Rubino, M.; Thornton, D.; Davies, S.; Thomas, Z.; Bird, M.; Munksgaard, N.; Kohono, M.; Kawamura, K.; Woodward, J.; Winter, K.; Rootes, C.; Millman, H.; Rivera, A.; Antarctic Last Interglacial team 2018** Sensitivity of Antarctica to ocean warming during the Last Interglacial. abstract EGU2018-17493 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- Turton, N.; McKay, R.; Dunbar, G.; Naish, T.R. 2018** Ice sheet and Southern Ocean response to orbital forcing during Early Pliocene warmth from IODP Site U1361A, Wilkes Land, East Antarctica. p. 271 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Upton, P. 2018** Coupling geodynamics and surface processes. In: *CTSP: Coupling of Tectonic and Surface Processes, April 25-27th 2018, Boulder, Colorado, USA*. Community Surface Dynamics Modeling System.
- Upton, P. 2018** Earthquake-induced landslides and landscape dynamics: the 2016 Kaikoura earthquake and response. In: *Geoprocesses, geohazards: CSDMS 2018, May 22-24th 2018 in Boulder Colorado, USA*. Community Surface Dynamics Modeling System.
- Upton, P.; Koons, P.; Richmond, N.; Roy, S. 2018** A single deformational framework for modelling tectonics and surface processes. p. 273 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Utting, P.; Neuberg, J.; Jolly, A.D. 2018** Linking changes in gravity and tidal admittance at White Island volcano, New Zealand, to volcanic activity. abstract EGU2018-17932 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*
- van der Raaij, R.W. 2018** Radiocarbon ages of groundwaters in South Canterbury. p. 114-115 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- van der Raaij, R.W.; Martindale, H.; Phipps, R. 2018** Application of hydrochemical and isotopic methods to assess water source and contaminant pathways in the Waiokura catchment, Taranaki, New Zealand. p. 73 In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- van der Raaij, R.W.; Martindale, H.; Phipps, R.; Morgenstern, U. 2018** Water source and contaminant pathways in the Waiokura catchment, Taranaki, New Zealand. p. 134 In: *Ka*

mua, ka muri: looking back, moving forward: 50th NZFSS annual conference, Nelson, 10-14th December 2018: conference handbook. Christchurch, N.Z.: New Zealand Freshwater Sciences Society.

- Van Dissen, R.J.; Stahl, T.; King, A.B.; Pettinga, J.; Fenton, C.; Little, T.; Litchfield, N.J.; Stirling, M.W.; Langridge, R.M.; Nicol, A.; Kearsse, J.; Barrell, D.J.A.; Villamor, P. 2018** Impacts of surface fault rupture on residential structures during the 2016 Mw 7.8 Kaikoura earthquake, New Zealand. p. 276 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Van Houtte, C.; Ktenidou, O.J. 2018** Earthquake directivity and its adverse effect on attenuation values derived from seismic spectra. abstract S30-707 In: D'Amico, S.; Galea, P.; Bozionelos, G.; Colica, E.; Farrugia, D.; Agis, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission.* Messina: Mistral Service.
- Vandergoes, M.J.; Wood, S.; Lakes380 team 2018** Learning from the past to identify lake resilience and enhance restoration. p. 134 In: *Ka mua, ka muri: looking back, moving forward: 50th NZFSS annual conference, Nelson, 10-14th December 2018: conference handbook.* Christchurch, N.Z.: New Zealand Freshwater Sciences Society.
- Venugopal, A.; Bertler, N.A.N.; Lee, J.; Menviel, L.; Cortese, G.; Pyne, R.L. 2018** Insights into phasing and evolution of the ocean bipolar see-saw from the Rice ice core. p. 272 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Villamor, P.; Barrell, D.J.A.; Gorman, A.; Davy, B.W.; Fry, B.; Hreinsdottir, S.; Hamling, I.J.; Stirling, M.W.; Cox, S.C.; Litchfield, N.J.; Holt, A.; Todd, E.; Denys, P.; Pearson, C.; Sangster, C.; Garcia-Mayordomo, J.; Goded, T.; Abbott, E.R.; Ohneiser, C.; Lepine, P.; Caratori Tontini, F. 2018** Are there hidden active faults under Dunedin City? p. 279 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Villamor, P.; Benites, R.A.; Berryman, K.R. 2018** Temporal associations between fault rupture and volcanic eruptions at the Okataina Volcanic Centre, northern Taupo Rift, New Zealand (Invited). abstract V23C-01 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Voloschina, M.; Lube, G.; Procter, J.; Moebis, A.; Timm, C. 2018** From detailed tephrostratigraphy to eruption dynamics: insights into eruptive behaviour of Mt Ruapehu during the last 2,000 years. p. 280 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience

Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Walker, S.L.; de Ronde, C.E.J.; Baker, E.T. 2018 Two decades of monitoring hydrothermal plumes at the Brothers submarine arc volcano, Kermadec Arc, New Zealand. abstract V33A-03 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Wallace, L.M.; Barnes, P.; Saffer, D.; Henrys, S.A.; Barker, D.H.N.; Bassett, D.; Caratori Tontini, F.; Kaneko, Y.; Ito, Y.; Mochizuki, K.; Webb, S.; Clark, K.J.; Cochran, U.A.; Litchfield, N.J.; Williams, C.A.; Fry, B.; Todd, E.; Bell, R.; Petronotis, K.; Pecher, I.A.; Le Vay, L.; IODP Expedition 371 Science Party; IODP Expedition 375 Science Party 2018 The dynamics of shallow plate interface slip at the offshore Hikurangi subduction margin, New Zealand. 1 p. In: *10th ACES (APEC Cooperation for Earthquake Science) International Workshop: towards comprehensive understanding of earthquake physics: Awaji Island, September 25-28, 2018*. [Brisbane?]: ACES.

Wallace, L.M.; Barnes, P.; Saffer, D.M.; Henrys, S.A.; Barker, D.H.N.; Bassett, D.; Caratori Tontini, F.; Kaneko, Y.; Ito, Y.; Mochizuki, K.; Webb, S.C.; Clark, K.J.; Cochran, U.A.; Litchfield, N.J.; Williams, C.A.; Ellis, S.M.; Fry, B.; Todd, E.K.; Bell, R.E.; Petronotis, K.E.; Pecher, I.A.; LeVay, L. 2018 The dynamics of shallow plate interface slip at the offshore Hikurangi subduction margin, New Zealand (Invited). abstract T52C-03 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Wallace, L.M.; Solomon, E.A.; Fulton, P.M.; Saffer, D.M.; Petronotis, K.E.; Jannasch, H.W.; Davis, E.E.; Rhinehart, B.; Van Hyfte, J.; Grigar, K.; Barnes, P.; Bell, R.E.; Pecher, I.A.; LeVay, L. 2018 IODP borehole observatories to monitor slow slip at the offshore Hikurangi subduction zone. abstract T51I-0293 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Wallace, L.M.; Solomon, E.A.; Fulton, P.M.; Saffer, D.M.; Petronotis, K.E.; Jannasch, H.W.; Davis, E.E.; Rhinehart, B.; Van Hyfte, J.; Grigar, K.; Barnes, P.; Bell, R.E.; Pecher, I.A.; LeVay, L. 2018 IODP borehole observatories to monitor slow slip at the offshore Hikurangi subduction zone. p. 282 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Walsh, B.; Procter, J.; Jolly, A.D. 2018 Investigations into seismic source locations of mass flow events during the 18 March 2007 Mount Ruapehu, New Zealand lake breakout event. abstract EGU2018-9215 In: *European Geosciences Union General Assembly 2018, Vienna, Austria, 8-13 April 2018*. Goettingen, Germany: Copernicus Gesellschaft. *Geophysical research abstracts 20*

- Wang, G.; Naeher, S.; Li, J. 2018** Maleimides: novel biological markers in the petroleum and source rocks. In: *Goldschmidt 2018 abstracts*. Cambridge, U.K.: White Iron Conferences Limited.
- Wang, W.; Savage, M.; Fry, B.; Hung, S.-H.; Luo, Y.; Lin, P.-Y.; Yang, H.-Y.; Kuo, B.-Y. 2018** Studies of seismic velocity structure in subduction zone from continuous ocean bottom seismometer (OBS) data. p. 294 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Wang, Y.; Maeda, K.; Heidarzadeh, M.; Su, H.; Sheehan, A.F.; Gusman, A.R. 2018** Tsunami data assimilation of OBS data around New Zealand. abstract NH43E-1093 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Warren-Smith, E.; Chon, E.; Fry, B.; Sheehan, A.; Wallace, L.M.; Mochizuki, K.; Haijima, D.; Schwartz, S. 2018** Improved focal mechanisms and stress patterns of seismicity pertaining to shallow slow slip in the northern Hikurangi. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018*. Wellington: Victoria University of Wellington.
- Warren-Smith, E.; Chon, E.R.; Fry, B.; Sheehan, A.F.; Wallace, L.M.; Mochizuki, K.; Schwartz, S.Y. 2018** Improved focal mechanism and spatial stress patterns pertaining to shallow slow slip in the northern Hikurangi Margin, New Zealand. p. 892-893 In: *2018 Seismology of the Americas Meeting: Latin American and Caribbean Seismological Commission, Seismological Society of America, 14-17 May 2018, Miami, Florida*. Albany, Calif.: Seismological Society of America. *Seismological research letters* 89(2B)
- Warren-Smith, E.; Fry, B.; Chon, E.; Henrys, S.A.; Sheehan, A.F.; Mochizuki, K.; Schwartz, S.Y. 2018** Episodic stress tensor and fluid pressure cycling in subducting oceanic crust during northern Hikurangi slow slip events (Invited). abstract T53C-03 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Warren-Smith, E.; Fry, B.; Kaneko, Y.; Chamberlain, C.J. 2018** Roles of static and dynamic stresses in triggering foreshocks, aftershocks and reinvigoration of the complex $M_w 7.1$ Te Araroa earthquake sequence, New Zealand. abstract S41C-0549 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.
- Warren-Smith, E.; Fry, B.; Wallace, L.M.; Chon, E.; Henrys, S.A.; Sheehan, A.; Mochizuki, K.; Schwartz, S.; Webb, S.; Lebedev, S. 2018** Episodic stress tensor and fluid pressure cycling in subducting oceanic crust during northern Hikurangi slow-slip events. p. 287 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier*:

abstract volume. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Watson, S.; Mountjoy, J.; Barnes, P.; Crutchley, G.J.; Higgs, B.; Neil, H.; Mitchell, J.; Pallentin, A.; Orpin, A.; Lamarche, G.; Kane, T.; Woelz, S.; Bowden, D.; Rowden, A.; Pecher, I.A. 2018 Compilation and spatial distribution of seabed fluid/gas expulsion along the Hikurangi Margin. p. 291 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

Weaver, K.C.; Arnold, R.; Townend, J.; Cox, S.C. 2018 A probabilistic model of aquifer susceptibility to earthquake-induced groundwater-level changes. p. 377 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.

Wei, M.; Kaneko, Y.; Shi, P.; Liu, Y. 2018 Numerical modeling of dynamically triggered shallow slow slip events in New Zealand by the 2016 M w 7.8 Kaikoura earthquake. abstract T511-0299 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Westacott, S.; Hollis, C.J.; Pascher, K.M.; Hull, P.M. 2018 Positive shift in radiolarian test size across the PETM at Mead Stream, New Zealand. abstract PP53F-1256 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018*. [Washington, D.C.]: American Geophysical Union.

Westerhoff, R.S. 2018 Exploring the benefits of cloud computing service on satellite data processing. In: *Second What on Earth Colloquium, 6-7 March 2018, Te Papa, Wellington, New Zealand*.

Westerhoff, R.S.; Tschritter, C.; Zammit, C. 2018 Inclusion of subsurface hydraulic properties in the New Zealand water model-hydrology project. p. 361-362 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.

White, P.A. 2018 Human behaviours and water management. p. 125 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1.* [Wellington, N.Z.]: New Zealand Hydrological Society.

White, P.A.; Bidois, L.-A.; Mohe, G.; Tschritter, C. 2018 Kaitiaki flows: iwi-led science to identify spring-fed stream management regimes, Awahou Stream, Rotorua. p. 123-124 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1.* [Wellington, N.Z.]: New Zealand Hydrological Society.

- White, P.A.; Kroon, G.; Gordon, D.; Tschirter, C.; Collins, D.; Fernandes, R. 2018** Groundwater allocation regime for all catchments in the Bay of Plenty region 2005-2018. p. 381-383 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2.* [Wellington, N.Z.]: New Zealand Hydrological Society.
- Williams, C.A.; Wallace, L.M.; Bartlow, N.M. 2018** Static and time-dependent inversions of slow slip along the Hikurangi subduction margin using numerical Green's functions. 1 p. In: Savage, M.K.; Mochizuki, K.; Wallace, L.M.; Johannsen, C.; Brook, E. *New Zealand-Japan joint workshop on slow slip, 26th-27th February 2018.* Wellington: Victoria University of Wellington.
- Williams, C.A.; Wallace, L.M.; Bartlow, N.M.; Yohler, R. 2018** Static and time-dependent inversions of slow slip along the Hikurangi subduction margin, New Zealand, using numerical Green's functions. abstract T53C-02 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Williams, C.A.; Wallace, L.M.; Bartlow, N.M.; Yohler, R. 2018** Static and time-dependent inversions of slow slip along the Hikurangi subduction margin, New Zealand, using numerical Green's functions. p. 297 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Williams, C.A.; Wallace, L.M.; Bartlow, N.M.; Yohler, R. 2018** Static and time-dependent inversions of slow slip along the Hikurangi subduction margin, New Zealand, using numerical Green's functions. 1 p. In: *10th ACES (APEC Cooperation for Earthquake Science) International Workshop: towards comprehensive understanding of earthquake physics: Awaji Island, September 25-28, 2018.* [Brisbane?]: ACES.
- Williams, J.H.; Wilson, T.M.; Hughes, M.; Horspool, N.A.; Lane, E.; Wotherspoon, L. 2018** Tsunami vulnerability of critical infrastructure: development and application of functions for infrastructure impact assessment. abstract NH31A-02 In: *AGU Fall Meeting, Washington, D.C., 10-14 December 2018.* [Washington, D.C.]: American Geophysical Union.
- Woelz, S.; Micallef, A.; Mountjoy, J.; Mueller, C. 2018** Inversion of seismic data to map offshore groundwater aquifers, South Canterbury Bight. p. 299 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Womack, T.; Crampton, J.S.; Hannah, M. 2018** Resolving the Cenozoic fossil record of New Zealand: unravelling macroevolution. p. 300 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume.* Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*

- Woods, K.; Wallace, L.M.; Hamling, I.J.; Savage, M.; Williams, C.A. 2018** A time-dependent inversion of geodetic data for southern Hikurangi subduction zone slip from 2013 to 2016. p. 301 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Wysoczanski, R.; Leonard, G.S.; Gill, J.; Wright, I.; Calvert, A.; McIntosh, W.; Gamble, J.; Timm, C.; Handler, M.; Zohrab, A. 2018** Ar/Ar age constraints on the timing of Havre Trough opening and magmatism. p. 302 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Xie, N.; Toy, V.G.; McNamara, D.D.; Massiot, C.; Levay, L.; Petronotis, K.; Saffer, D.; Wallace, L.M.; IODP Expedition 372 & 375 science parties 2018** The effects of structural networks on fluid transport within the Hikurangi subduction system. p. 303 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Yang, J.; Zammit, C.; Griffiths, J.; Rajanayaka, C.; White, P.A. 2018** Progress on national surface-groundwater modelling: model development, parameterisation and regionalisation. p. 393-394 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Yang, J.; Zammit, C.; Hemmings, B.; Toews, M.W.; Moore, C.R. 2018** Assessing the impact of groundwater take scenarios on lowflow using TopNet-GW. p. 131-133 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 1*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Yates, A.; Savage, M.; Jolly, A.D.; Caudron, C.; Hamling, I.J. 2018** Volcano, co-seismic, and seasonal changes detected at White Island (Whakaari) volcano using seismic ambient noise. p. 305 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Yin, Y.; Wiemer, S.; Tormann, T.; Nandan, S.; Fry, B. 2018** Is Canterbury sequence triggered by distant subduction zone earthquakes? Abstract ESC2018-S22-1012 In: D'Amico, S.; Galea, P.; Bozionelos, G.; Colica, E.; Farrugia, D.; Agius, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission*. Mistral Service: Messina.
- Yin, Y.; Wiemer, S.; Tormann, T.; Nandan, S.; Fry, B. 2018** Is Canterbury sequence triggered by distant subduction zone earthquakes? abstract S22-1012 In: D'Amico, S.; Galea, P.;

- Bozionelos, G.; Colica, E.; Farrugia, D.; Agis, M.R. (eds) *Book of abstracts of the 36th General Assembly of the European Seismological Commission*. Messina: Mistral Service.
- Yuan, Y.; Liu, Z.; Rogers, K.M. 2018** Authentication of organically farmed food using stable isotopic and multi-element features with chemometrics - keeping food safe. p. [83] In: *14th Australasian Environmental Isotope Conference, 26-28 March 2018, Museum of New Zealand, Te Papa Tongarewa, Wellington, New Zealand*.
- Zal, H.J.; Jacobs, K.; Savage, M.K.; Mroczek, S.; Graham, K.M.; Yarce, J.; Todd, E.; Shaddox, H.; Nakai, J.S.; Iwasaki, Y.; Sheehan, A.F.; Mochizuki, K. 2018** Temporal variations in seismic anisotropy during the 2014 Gisborne SSE, New Zealand. p. 893 In: *2018 Seismology of the Americas Meeting: Latin American and Caribbean Seismological Commission, Seismological Society of America, 14-17 May 2018, Miami, Florida*. Albany, Calif.: Seismological Society of America. *Seismological research letters* 89(2B)
- Zal, M.; Savage, M.; Jacobs, K.; Mroczek, S.; Yarce, J.; Todd, E.; Shaddox, H.; Nakai, J.; Graham, K.; Iwasaki, Y.; Sheehan, A.; Mochizuki, K.; Schwartz, S.; Wallace, L.M.; Webb, S. 2018** Fluid pressure changes suggested by seismic anisotropy and Vp/Vs changes measured on ocean bottom seismometers during the September 2014 slow slip event offshore Gisborne. p. 307 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*
- Zammit, C.; Westerhoff, R.S.; Lilburne, L.; Griffiths, J. 2018** Update on the New Zealand water model-hydrology project. p. 398-400 In: *NZ Hydrological Society & Meteorological Society of NZ Joint Conference handbook: "the hydrological cycle in changing times": 4-7 December 2018 ... Christchurch. Vol. 2*. [Wellington, N.Z.]: New Zealand Hydrological Society.
- Zammit, C.; Westerhoff, R.S.; Lilburne, L.; Griffiths, J.; Larned, S. 2018** Update of the New Zealand water model-hydrology project. p. 141 In: *Ka mua, ka muri: looking back, moving forward: 50th NZFSS annual conference, Nelson, 10-14th December 2018: conference handbook*. Christchurch, N.Z.: New Zealand Freshwater Sciences Society.
- Zhu, H.; Wang, X.; Mueller, C. 2018** Quantifying the Matakaoa submarine slump and evaluating its tsunami potential. p. 313 In: Sagar, M.W.; Prebble, J.G. (eds.) *Geosciences 2018, 27-30 November 2018, Napier: abstract volume*. Wellington, N.Z.: Geoscience Society of New Zealand. *Geoscience Society of New Zealand miscellaneous publication 151A*