

Katerina E. Petronotis

JOIDES Resolution Science Operator • International Ocean Discovery Program • Texas A&M University
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Professional Experience

Supervisor of Science Support, IODP/TAMU (Associate Research Scientist)	2018-
Expedition Project Manager/Staff Scientist, IODP/TAMU (Assistant Research Scientist)	2010-2018
Webmaster, ODP–IODP/TAMU	1998-2009
Prime Data Coordinator, ODP/TAMU	1996-1997
Graphics Specialist, ODP/Texas A&M University (TAMU)	1995-1996
Research Scientist, Department of Geology & Geophysics, University of New England, Armidale, NSW, Australia	1994-1995
Fulbright Scholar, University of Patras, Greece	Fall 1993
Research Scientist, Department of Earth & Planetary Sciences, University of New Mexico, Albuquerque, NM	1992-1994
Research Assistant, Department of Geological Sciences, Northwestern University, Evanston, IL	1986-1991
Teaching Assistant, Department of Geological Sciences, Northwestern University, Evanston, IL	1986-1991
Math Tutor, Triton Community College, River Grove, IL	1984-1986

Education

Ph.D., Geophysics, Northwestern University, Evanston, IL	1991
M.S., Geophysics, Northwestern University, Evanston, IL	1988
B.S., Applied Mathematics (with Honors), University of Illinois at Chicago, Chicago, IL	1986

Seagoing Expeditions and Field Projects

Expedition Project Manager: Walvis Ridge Hotspot (JR Exp 391, 2020)	2019-
Expedition Project Manager: Hikurangi Subduction Margin (JR Exp 375, 2018)	2015-
Expedition Project Manager: Sumatra Seismogenic Zone (JR Exp 362, 2016)	2015-
Expedition Project Manager: Izu-Bonin-Mariana Forearc (JR Exp 352, 2014)	2013-
Expedition Project Manager: Costa Rica Seismogenesis Project (JR Exp 344, 2012)	2011-
Expedition Project Manager: Costa Rica Seismogenesis Project (JR Exp 334, postcruise)	2012-
Expedition Project Manager: Southern Alaska Margin (JR Exp 341, precruise)	2011-2011
Expedition Project Manager: Juan de Fuca Hydrogeology (JR Exp 327)	2009-
Publications Specialist: <i>Chikyu</i> Exp 322	2009
Publications Specialist: <i>Chikyu</i> Exp 316	2008
Publications Specialist: <i>JOIDES Resolution</i> (JR) Exp 311	2005
Magnetic survey of unexploded ordnance in Queensland, Australia	1995
Ground-probing-radar survey for the Athens Metro, Athens, Greece	1993
Magnetic and seismic survey of Xerxes' Canal, Macedonia, Greece	1993
Sedimentology project field assistant, New Mexico and Utah	1991-1992
Collection of samples for various paleomagnetic projects in Australia, Greece,	1988-1995

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Colorado, New Mexico, and Texas

Public, University, & K-12 School Outreach

Texas A&M University College of Geosciences	2009-2019
Aggieland Saturday Open House (annually in February)	
GeoX science camp for high school students (annually in June)	
Texas Junior Science & Humanities Symposium Judge	Jan 2017
SEAD Gallery, Bryan, Texas, IODP Lecture	Oct 2015
Bush Presidential Museum Drilling Exhibit College/IODP contributor	Mar 2014-Feb 2015
Deep Earth Academy Ship2Shore Meeting and proposal review	March 2012
Brazos Valley Museum of Natural History IODP Exhibit Co-Curator	Feb-Apr 2012
Maritime Museum in Rockport, Texas, IODP Exhibit contributor	Apr-Sep 2011
IODP-USIO E&O JREPORT Team (Chair 2006-2009)	2004-2012
IODP School of Rock teacher workshop at Gulf Coast Repository	July 2008
IODP School of Rock teacher workshop at Gulf Coast Repository	July 2007
National Science Teachers Association annual conference	March 2007
National Marine Educators Association annual conference	July 2004

Additional Skills

Software: Microsoft Office (Word, Excel, Powerpoint), BBEdit, Kaleidagraph, Generic Mapping Tools (GMT), Adobe Suite (Acrobat, Illustrator, Photoshop, Fireworks, Dreamweaver), Canvas, and Fortran programming

Instrumentation: 2G cryogenic magnetometer, Agico spinner magnetometer, MicroMag alternating gradient magnetometer, Bartington susceptibility meter, multisensor tracks (density, P-wave velocity, magnetic susceptibility, natural gamma ray, color reflectance)

Fluent in English and Greek, some French

Affiliations & Service Committees

AGU Geomagnetism-Paleomagnetism-Electromagnetism Executive Committee Member and Section Webmaster	2008-2019
AGU Outstanding Student Presentation Award (OSPA) Judge	2017-2018
AGU Maurice Ewing Medal Committee	2009-2010
AGU Maurice Ewing Medal Committee	2006-2008
AGU Information Technology Committee	2000-2002
AGU Information Technology Committee	2002-2004
Fulbright Association Member	Since 1994
American Geophysical Union Member	Since 1987

Funded Grants

Co-PI, *Engaging and retaining students in the geosciences at two-year colleges (2YC) through undergraduate research*, Texas A&M University, 2016-2018. NSF 1600177, \$11,332.

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Co-PI, *Ocean Sciences for Rural Communities via Informal Science Education*, Texas A&M University, 2015-2018. NSF 1515856, \$40,672.

PI, Tectonic Evolution of the Hikurangi Plateau from Expedition 375 paleomagnetic analyses, Texas A&M University, 2018-2019. LDEO, \$4,455 (plus \$4,310 for travel; *pending*).

PI, Apparent Polar Wander Path of the Indian Plate in the Late Cretaceous and early Cenozoic from Expedition 362 paleomagnetic data, Texas A&M University, 2017-2018. LDEO, \$1,485 (plus \$3,475 for travel).

PI, Rock Magnetic Properties of Sediments from Expedition 352 IBM Forearc Sites U1439 and U1440, Texas A&M University, 2015. COL T344A13, \$5,820 (plus \$4,030 for travel).

PI, Magnetostratigraphy and paleolatitude studies of IODP Expedition 344 (CRISP) drill sites, Texas A&M University, 2013. COL T344A13, \$2,920 (plus \$3,000 for travel).

PI, High Resolution Apparent Polar Wander of the Pacific Plate During the Eocene, University of New Mexico, 1992. NSF 9205875, \$62,721.

Co-PI, Computer Upgrade for the Department of Earth and Planetary Sciences at the University of New Mexico, 1993. NSF 9303968, \$65,000.

Co-PI, Upgrading of Equipment in the Paleomagnetism and Rock Magnetism Laboratory, University of New Mexico, 1993. NSF 9305156, \$14,477.

Peer Reviewed Publications

McNeill, L., Dugan, B., **Petronotis, K.**, Milliken, K., Francis, J., and the Expedition 362 Scientists, 2020. Late Miocene wood recovered in Bengal-Nicobar submarine fan sediments by IODP Expedition 362. *Sci. Drill.*, 27:49–52. <https://doi.org/10.5194/sd-27-49-2020>

Barnes, P. M., Wallace, L. M., Saffer, D. M., Bell, R. E., Underwood, M. B., Fagereng, A., Meneghini, F., Savage, H. M., Rabinowitz, H. S., Morgan, J. K., Kitajima, H., Kutterolf, S., Hashimoto, Y., Engelmann de Oliveira, C. H., Noda, A., Crundwell, M. P., Shepherd, C. L., Woodhouse, A. D., Harris, R. N., Wang, M., Henrys, S., Barker, D. H.N., **Petronotis, K. E.**, Bourlange, S. M., Clennell, M. B., Cook, A. E., Dugan, B. E., Elger, J., Fulton, P. M., Gamboa, D., Greve, A., Han, S., Hüpers, A., Ikari, M. J., Ito, Y., Kim, G. Y., Koge, H., Lee, H., Li, X., Luo, M., Malie, P. R., Moore, G. F., Mountjoy, J. J., McNamara, D. D., Paganoni, M., Sreaton, E. J., Shankar, U., Shreedharan, S., Solomon, E. A., Wang, X., Wu, H., Pecher, I. A., LeVay, L. J., 2020. Slow slip source characterized by lithological and geometric heterogeneity. *Science Advances*, 6. doi:10.1126/sciadv.aay3314

Yang, T., Zhao, X., **Petronotis, K.**, Dekkers, M. J., and Xu, H., 2019. Anisotropy of magnetic susceptibility (AMS) of sediments from Holes U1480E and U1480H, IODP Expedition 362: sedimentary or artificial origin and implications for paleomagnetic studies. *Geochem., Geoph., Geosyst.*, 20: 5192–5215. <https://doi.org/10.1029/2019GC008721>

Backman, J., Chen, W., Kachovich, S., Mitchison, F., **Petronotis, K.**, Yang, T., and Zhao, X., 2019. Data report: revised age models for IODP Sites U1480 and U1481, Expedition 362. In McNeill, L.C., Dugan, B., Petronotis, K.E., and the Expedition 362 Scientists, *Sumatra Subduction Zone*. Proceedings of the International Ocean Discovery Program, 362: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.362.202.2019>

Fagereng, Å., Savage, H.M., Morgan, J.K., Wang, M., Meneghini, F., Barnes, P.M., Bell, R., Kitajima, H., McNamara, D.D., Saffer, D.M., Wallace, L.M., **Petronotis, K.**, LeVay, L., and the IODP Expedition 372/375 Scientists, 2019. Mixed deformation styles observed on a shallow subduction thrust, Hikurangi margin, New Zealand. *Geology*, 47:872-876. <https://doi.org/10.1130/g46367.1>

Gray, M., Bell, R. E., Morgan, J. V., Henrys, S., Barker, D. H. N., and the IODP **Expedition 372 and 375 science parties**, 2019. Imaging the shallow subsurface structure of the north Hikurangi subduction zone, New Zealand, using 2-D full-waveform inversion. *J. Geophys. Res.: Solid Earth*, 124. <https://doi.org/10.1029/2019JB017793>

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- Li, Y.-X., Zhao, X., Xie, S., Jovane, L., and **Petronotis, K.E.**, 2018. Paleomagnetism of IODP Site U1380: Implications for the Forearc Deformation in the Costa Rican Erosive Convergent Margin. *Scientific Reports*, 8:11430. doi: 10.1038/s41598-018-29243-7
- S. Kutterolf, J.C. Schindlbeck, A. Robertson, A. Avery, A. Baxter, **K.E. Petronotis**, and K.-L. Wang, 2018. Tephrostratigraphy and Provenance from IODP Expedition 352, Izu-Bonin arc: tracing tephra sources and volumes from the Oligocene to the recent. *Geochem., Geophys., Geosyst.*, 19. doi:10.1002/2017GC007100
- A. Robertson, S. Kutterolf, A. Avery, A. Baxter, **K.E. Petronotis**, G.D. Acton, Carvallo, C., and J.C. Schindlbeck, 2017. Role of Late Oligocene-Recent deep-sea hemipelagic and tuffaceous sediments overlying oceanic crust of the Izu-Bonin Forearc, NW Pacific (IODP Expedition 352) in the tectonic development of the NW Pacific region. *Int. Geology Rev.* doi: 10.1080/00206814.2017.1393634.
- McNeill, L.C., Dugan, B., Backman, J., Pickering, K.T., Pouderoux, H.F.A., Henstock, T.J., **Petronotis, K.E.**, Carter, A., Chemale, F., Milliken, K.L., Kutterolf, S., Mukoyoshi, H., Chen, W., Kachovich, S., Mitchison, F.L., Bourlange, S., Colson, T.A., Frederik, M.C.G., Guèrin, G., Hamahashi, M., House, B.M., Hüpers, A., Jeppson, T.N., Kenigsberg, A.R., Kuranaga, M., Nair, N., Owari, S., Shan, Y., Song, I., Torres, M.E., Vannucchi, P., Vrolijk, P.J., Yang, T., Zhao, X., and Thomas, E., 2017. Understanding Himalayan erosion and the significance of the Nicobar Fan. *Earth and Planetary Science Letters*, 475:134-142. <https://doi.org/10.1016/j.epsl.2017.07.019>.
- Hüpers, A., Torres, M.E., Owari, S., McNeill, L.C., Dugan, D., Henstock, T.J., Milliken, K.L., **Petronotis, K.E.**, Backman, J., Bourlange, S., Chemale, F., Jr., Chen, W., Colson, T.A., Frederik, M.C.G., Guèrin, G., Hamahashi, M., House, B.M., Jeppson, T.N., Kachovich, S., Kenigsberg, A.R., Kuranaga, M., Kutterolf, S., Mitchison, F.L., Mukoyoshi, H., Nair, N., Pickering, K.T., Pouderoux, H.F.A., Shan, Y., Song, I., Vannucchi, P., Vrolijk, P.J., Yang, T., and Zhao, X., 2017. Release of mineral-bound water prior to subduction tied to shallow seismogenic slip off Sumatra. *Science*, 356(6340):841–844. <https://doi.org/10.1126/science.aal3429>
- M.K. Reagan, J.A. Pearce, **K. Petronotis**, R.R. Almeev, A.J. Avery, C. Carvallo, T. Chapman, G.L. Christeson, E.C. Ferré, M. Godard, D.E. Heaton, M. Kirchenbaur, W. Kurz, S. Kutterolf, H. Li, Y. Li, K. Michibayashi, S. Morgan, W.R. Nelson, J. Prytulak, M. Python, A.H.F. Robertson, J.G. Ryan, W.W. Sager, T. Sakuyama, J.W. Shervais, K. Shimizu, and S.A. Whattam, 2017. Subduction initiation and ophiolite crust: new insights from IODP drilling. *Int. Geology Rev.*, 59:1439-1450. doi: 10.1080/00206814.2016.1276482.
- J.G. Ryan, J.W. Shervais, Y. Li, M.K. Reagan, H.Y. Li, D. Heaton, M. Godard, M. Kirchenbaur, S. Whattam, J.A. Pearce, T. Chapman, W. Nelson, J. Prytulak, K. Shimizu, **K. Petronotis**, the IODP Expedition 352 Scientific Team, 2017. Application of a handheld X-ray fluorescence spectrometer for real-time, high-density quantitative analysis of drilled igneous rocks and sediments during IODP Expedition 352. *Chem. Geology*, 45:55-66. doi: 10.1016/j.chemgeo.2017.01.007.
- Li, Y.-X., Zhao, X., Jovane, L., **Petronotis, K.E.**, Gong, Z., and Xie, S., 2015. Paleomagnetic constraints on the tectonic evolution of the Costa Rican subduction zone: new results from sedimentary successions of IODP drill sites from the Cocos Ridge. *Geochem., Geophys., Geosyst.*, 16. doi: 10.1002/2015GC006058.
- Petronotis, K.E.**, Acton, G.D., Jovane, L., Li, Y., and Zhao, X., 2015. Data report: magnetic properties of sediments and basalts from the Costa Rica subduction margin (Expeditions 334 and 344). In Harris, R.N., Sakaguchi, A., Petronotis, K., and the Expedition 344 Scientists, *Proc. IODP*, 344: College Station, TX (Integrated Ocean Drilling Program). doi:10.2204/iodp.proc.344.206.2015
- Petronotis, K.E.**, and R.G. Gordon, 1999. A Maastrichtian palaeomagnetic pole for the Pacific plate from a skewness analysis of marine magnetic anomaly 32. *Geophys. J. Int.*, 139:227-247. doi:10.1046/j.1365-246X.1999.00901.x
- Acton, G. D., **K.E. Petronotis**, D.C. Cape, S.L. Rotto Ilg, R.G. Gordon, and P.C. Bryan, 1996. A test of the geocentric axial dipole hypothesis from an analysis of the skewness of the Central marine magnetic anomaly, *Earth Planet. Sci. Lett.*, 144, 337-346. doi:10.1016/S0012-821X(96)00168-9
- Petronotis, K.E.**, R.G. Gordon, and G.D. Acton, 1994. A 57-Ma Pacific plate paleomagnetic pole determined from a skewness analysis of crossings of marine magnetic anomaly 25r, *Geophys. J. Int.*, 118, 529-554. doi:10.1111/j.1365-246X.1994.tb03983.x
- Acton, G.D. and **K.E. Petronotis**, 1994. Marine magnetic anomaly skewness data and oceanic plate motions, *Eos*,

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Geophysical News, 75, 49-52.

Bryan, P.C., T. Shoberg, R.G. Gordon, **K.E. Petronotis**, and D.D. Bergersen, 1993. A paleomagnetic pole and estimated age for Lo-En Guyot, Republic of the Marshall Islands, In Pringle, M.S., et al. (Eds.), *The Mesozoic Pacific: Geology, Tectonics and Volcanism*, Am. Geophys. Union Monogr. Ser., 77, 387-400.

Petronotis, K.E., R.G. Gordon, and G.D. Acton, 1992. Determining palaeomagnetic poles and anomalous skewness from marine magnetic anomaly skewness data from a single plate, *Geophys. J. Int.*, 109, 209-224.

doi:10.1111/j.1365-246X.1992.tb00091.x

Petronotis, K.E. and D.M. Jurdy, 1990. Pacific plate reconstructions and uncertainties, *Tectonophysics*, 182, 383-391. doi:10.1016/0040-1951(90)90174-7

Petronotis, K.E. and R.G. Gordon, 1989. Age dependence of skewness of magnetic anomalies above seafloor formed at the Pacific-Kula spreading center, *Geophys. Res. Lett.*, 16, 315-318. doi:10.1029/GL016i004p00315

Non-Peer Reviewed & IODP Publications

Scott, L., Gamage, K., Davis, L., and **Petronotis, K.**, 2020. Integrating Research Experience into Introductory Geoscience Courses. *In the Trenches*, 10. https://nagt.org/nagt/publications/trenches/v10-n2/integrating_research_experience.html

Wallace, L.M., Saffer, D.M., Barnes, P.M., Pecher, I.A., **Petronotis, K.E.**, LeVay, L.J., and the Expedition 372/375 Scientists, 2019. Hikurangi Subduction Margin Coring, Logging, and Observatories. Proceedings of the International Ocean Discovery Program, 372B/375: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.372B375.2019>

Saffer, D.M., Wallace, L.M., **Petronotis, K.**, and the Expedition 375 Scientists, 2018. *Expedition 375 Preliminary Report: Hikurangi Subduction Margin Coring and Observatories*. International Ocean Discovery Program. <https://doi.org/10.14379/iodp.pr.375.2018>

McNeill, L.C., Dugan, B., **Petronotis, K.E.**, and the Expedition 362 Scientists, 2017. *Sumatra Subduction Zone*. Proceedings of the International Ocean Discovery Program, 362: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.362.2017>

Dugan, B., McNeill, L., **Petronotis, K.**, and the Expedition 362 Scientists, 2017. *Expedition 362 Preliminary Report: Sumatra Subduction Zone*. International Ocean Discovery Program. <https://doi.org/10.14379/iodp.pr.362.2017>

Saffer, D., Wallace, L., and **Petronotis, K.**, 2017. *Expedition 375 Scientific Prospectus: Hikurangi Subduction Margin Coring and Observatories*. International Ocean Discovery Program. <http://dx.doi.org/10.14379/iodp.sp.375.2017>

McNeill, L., Dugan, B., and **Petronotis, K.**, 2016. *Expedition 362 Scientific Prospectus: the Sumatra subduction zone*. International Ocean Discovery Program. <http://dx.doi.org/10.14379/iodp.sp.362.2016>

Reagan, M.K., Pearce, J.A., **Petronotis, K.**, and the Expedition 352 Scientists, 2015. *Izu-Bonin-Mariana Fore Arc*. Proceedings of the International Ocean Discovery Program, 352: College Station, TX (International Ocean Discovery Program). <http://dx.doi.org/10.14379/iodp.proc.352.2015>

Expedition 352 Scientists, 2015. *Expedition 352 Preliminary Report: Izu-Bonin-Mariana Fore Arc*. International Ocean Discovery Program. <http://dx.doi.org/10.14379/iodp.pr.352.2015>

Pearce, J.A., Reagan, M.K., Stern, R.J., and **Petronotis, K.**, 2013. Izu-Bonin-Mariana fore arc: testing subduction initiation and ophiolite models by drilling the outer Izu-Bonin-Mariana fore arc. *IODP Sci. Prosp.*, 352. doi:10.14379/iodp.sp.352.2013

Harris, R.N., Sakaguchi, A., **Petronotis, K.**, and the Expedition 344 Scientists, 2013. *Proc. IODP*, 344: College Station, TX (Integrated Ocean Drilling Program). doi:10.2204/iodp.proc.344.2013

Expedition 344 Scientists, 2013. Costa Rica Seismogenesis Project, Program A Stage 2 (CRISP-A2): sampling and quantifying lithologic inputs and fluid inputs and outputs of the seismogenic zone. *IODP Prel. Rept.*, 344. doi:10.2204/iodp.pr.344.2013

Harris, R., Sakaguchi, A., and **Petronotis, K.**, 2012. Costa Rica Seismogenesis Project, Program A Stage 2 (CRISP-A2): sampling and quantifying lithologic inputs and fluid inputs and outputs of the seismogenic zone. *IODP Sci. Prosp.*,

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344. doi:10.2204/iodp.sp.344.2012

Fisher, A.T., Tsuji, T., **Petronotis, K.**, Wheat, C.G., Becker, K., Clark, J.F., Cowen, J., Edwards, K., Jannasch, H., and the IODP Expedition 327 and Atlantis Expedition AT18-07 Shipboard Parties, 2012. IODP Expedition 327 and Atlantis Expedition AT 18-07: observatories and experiments on the eastern flank of the Juan de Fuca Ridge. *Sci. Drill.*, 13:4–11. doi:10.2204/iodp.sd.13.01.2011

Fisher, A.T., Tsuji, T., **Petronotis, K.**, and the Expedition 327 Scientists, 2011. *Proc. IODP, 327*: Tokyo (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.327.2011

Expedition 327 Scientists, 2010. Juan de Fuca Ridge-flank hydrogeology: the hydrogeologic architecture of basaltic oceanic crust: compartmentalization, anisotropy, microbiology, and crustal-scale properties on the eastern flank of Juan de Fuca Ridge, eastern Pacific Ocean. *IODP Prel. Rept.*, 327. doi:10.2204/iodp.pr.327.2010

Jaeger, J., Gulick, S., Mix, A., and **Petronotis, K.**, 2011. Southern Alaska margin: interactions of tectonics, climate, and sedimentation. *IODP Sci. Prosp.*, 341. doi:10.2204/iodp.sp.341.2011

Davis, E., and **Petronotis, K.E.**, 2010. Cascadia subduction zone ACORK observatory. *IODP Sci. Prosp.*, 328. doi:10.2204/iodp.sp.328.2010

Petronotis, K., 2005. Careers in scientific ocean drilling. In Smith, M.J., and Peart, L. (Eds.), *The Earth Scientist*, 29(3):10–12.

Recent Conference Abstracts

Heeschen, K., S. Schlömer, M. Torres, A. Cook, E. Screato, A. Georgiopolou, I. Pecher, S. Mayanna, P. Barnes, L. LeVay, E. Salomon, D. Saffer, L. Wallace, and K., Petronotis, 2020. Distribution and fractionation of light hydrocarbons related to gas hydrate occurrence and biogenic production at Hikurangi Margin (IODP Site U1517), New Zealand. EGU General Assembly, May 2020, Virtual Meeting.

Petronotis, K., Edwards, P., Foster, P., Hastedt, M., Hesse, J., Houpt, D., LeVay, L., Novak, B., McWilliams, A., Percuoco, V., Peters, L., and Williams, T., 2019. Making Scientific Ocean Drilling Data Discoverable. AGU Fall Meeting, San Francisco, CA, 9-13 December 2019.

Kars, M., Greve, A., Zerbst, L., and IODP Expedition 375 Scientists, 2019. Occurrence of greigite in gas hydrate-bearing frontal thrust sediments of the Hikurangi margin, New Zealand at Site U1518, IODP Expedition 375. AGU Fall Meeting, San Francisco, CA, 9-13 December 2019.

P.M. Barnes, D.M. Saffer, L.M. Wallace, I.A. Pecher, K. Petronotis, L. LeVay, and the Expedition 372 and 375 Science Parties, 2018. Drilling and coring the northern Hikurangi Subduction Margin to unlock the secrets of slow slip: International Ocean Discovery Program Expeditions 372 and 375. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

R. Bell, M. Gray, J. Morgan, S. Henrys, D. Barker, N. Bangs, P. Barnes, L. Wallace, D. Saffer, K. Petronotis and the IODP Expedition 375 and Expedition 372 shipboard scientists, 2018. Validating a full-waveform inversion velocity model at the north Hikurangi subduction margin using IODP drilling data. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

B. Dugan, I.A. Pecher, M.A. Nole, J., Mountjoy, P.M. Barnes, L.J. LeVay, Expedition 372 Shipboard Scientists, and Expedition 375 Shipboard Scientists, 2018. Formation Pore Pressure through the Tuaheni Landslide Complex and the Gas Hydrate Stability Zone at IODP Expedition 372 Site U1517. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

Fagereng, A., Savage, H., Morgan, J., Wang, M., Meneghini, F., Barnes, P., Bell, R., Kitajima, H., McNamara, D., Saffer, D., Wallace, L.M., Petronotis, K., and the Exp. 375 and 372 Science Parties, 2018. Brittle-ductile deformation and fault slip behavior of a shallow subduction thrust, Hikurangi margin, New Zealand. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

D. Gamboa, P Barnes, R.E. Bell, G.F. Moore, J.J. Mountjoy, M. Paganoni, M.B. Clennell, A. Cook, D.D. McNamara, M. Underwood, H. Rabinowitz, A. Noda, F. Meneghini, S. Kutterolf, Y. Hashimoto, C. Engelmann de Oliveira, I.A.

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Pecher, L.M. Wallace, D.M. Saffer, L. LeVay, K.E. Petronotis, IODP Expedition 372 Scientists, and IODP Expedition 375 Scientists, 2018. Revisiting the giant Ruatoria Debris Flow on the Hikurangi Margin, New Zealand: results from IODP Expeditions 372 and 375, Site U1520. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

A. Greve, T. Kanamatsu, A. Fagereng, J. Morgan, H. Savage, M. Kars, L. Wallace, D. Saffer, K. Petronotis and the IODP Expedition 372 and 375 Scientists, 2018. Magnetic fabrics of deformed soft sediments at the deformation front of the Hikurangi subduction margin. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

Heeschen, K., M. Torres, I. Pecher, S. Schlömer, S. Owari, P. Rose, K. Machado, J. M. Schicks, G. Hu, J. Mountjoy, P. Barnes, L. LeVay and Expedition 372 and 375 Science Parties, 2018. Occurrence and fractionation of light hydrocarbons in the gas-hydrate bearing sediments of IODP Site U1517, Hikurangi Margin, New Zealand. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

T.N. Jeppson, H. Kitajima, M. Ikari, H. Lee, Y. Ito, R. Harris, S. Shreedharan, P. Malie, M. Luo, A. Hupers, E. Solomon, D. Saffer, L. Wallace, P. Barnes, I. Pecher, K. Petronotis, L. LeVay, and Exp. 372/375 Science Party, 2018. Lithology and cement controls on the evolution of compressional wave velocity and porosity in input materials at northern Hikurangi and other subduction zones. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

H. Koge, D.D. McNamara, D.A. Da Costa Gamboa, H.-Y. Wu, G.Y. Kim, U. Shankar, S. Cardona Meneses, P.M. Barnes, A. Noda, J. Morgan, J. Ashi, A. Yamaguchi, Y. Yamada, Y. Hamada, Expedition 372 Scientists, Expedition 375 Scientists, 2018. Constraining the deformation history of the frontal wedge of Hikurangi Subduction Margin with analog modeling and bedding trends from borehole logging of IODP Expedition 372. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

H. Leah, A. Fagereng, F. Meneghini, J. Morgan, H. Savage, M. Wang, D. Saffer, L. Wallace, K. Petronotis and the IODP Expedition 375 and 372 Science Parties, 2018. Subduction-Related Strain in a Calcareous-Pelagic Shear Zone: Insights on Deformation at the Hikurangi Margin Plate Interface from the Input Sequence at Site U1520 and the Llanddwyn Island Shear Zone, Anglesey, U.K. AGU Fall Meeting, Washington, D.C., 10-14 December 2018.

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