

26 April, Monday

vPICO Presentation	<p>09:22 - 09:24 CEST / 15:22 - 15:24 SGT</p>	<p>EGU21-7065 Brown Carbon Sources in Singapore Identified by Factor Analysis of Atmospheric Pressure Chemical Ionization Mass Spectra</p> <p>Authors: LiuDongQing Yang^{1,2}, Xianfeng Wang^{1,2,3}, and Mikinori Kuwata^{3,4}</p> <p>(1) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (2) Asian School of the Environment, Nanyang Technological University, Singapore, (3) Campus for Research Excellence and Technological Enterprise (CREATE) Program, Singapore, (4) Department of Atmospheric and Oceanic Sciences, School of Physics, and BIC-ESAT, Peking University, China</p>	Liu Dong Qing Yang
	<p>11:08 - 11:10 CEST / 17:08 - 17:10 SGT</p>	<p>EGU21-13867 Tracking reservoir dynamics across a complete caldera cycle at Rabaul, Papua New Guinea</p> <p>Authors: Gareth N. Fabbro^{1,2}, Chris O. McKee³, Mikhail E. Sindang⁴, Jeffrey A. Oalman², and Caroline Bouvet De La Maisonneuve²</p> <p>(1) Caraga State University, College of Engineering and Geosciences, Butuan, Philippines, (2) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (3) Port Moresby Geophysical Observatory, Port Moresby, Papua New Guinea, (4) Rabaul Volcano Observatory, Rabaul, Papua New Guinea</p>	Gareth N. Fabbro
	<p>13:35 - 13:37 CEST / 19:35 - 19:37 SGT</p>	<p>EGU21-4224 Parameters controlling mid-Holocene highstand in Glacial Isostatic Adjustment modelling</p> <p>Authors: Tanghua Li¹, Stephen Chua¹, Nicole Khan², Patrick Wu³ and Benjamin Horton^{1,4}</p> <p>(1) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (2) Department of Earth Sciences and Swire Marine Institute, University of Hong Kong, Hong Kong, (3) Department of Geoscience, University of Calgary, Calgary, Alberta T2N 1N4, Canada, (4) Asian School of the Environment, Nanyang Technological University, Singapore</p>	Tanghua Li
	<p>13:53 - 13:55 CEST / 19:53 - 19:55 SGT</p>	<p>EGU21-10441 Effects of Glacial Isostatic Adjustment on Surface Topography, Flow Accumulation, Stream Power & Sediment Transport Indexes in the Canadian Prairies</p> <p>Authors: Patrick Wu¹, Tanghua Li², and Holger Steffen³</p> <p>(1) University of Calgary, Geoscience, Calgary, Canada, (2) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (3) Lantmäteriet, Geodetisk Infrastruktur, Lantmäterigatan 2c 80182 Gävle, Sweden</p>	Patrick Wu*

	14:07 - 14:09 CEST / 20:07 - 20:09 SGT	EGU21-4159 3D Transdimensional Seismic Tomography of the Inner Core Authors: <i>Henry Brett</i> ¹ , <i>Rhys Hawkins</i> ¹ , <i>Karen Lythgoe</i> ² , <i>Lauren Waszek</i> ^{3,4} , and <i>Arwen Deuss</i> ¹ (1) <i>Utrecht University, Geosciences, Netherlands</i> , (2) <i>Earth Observatory of Singapore</i> , (3) <i>Department of Physics, New Mexico State University</i> , (4) <i>Department of Physics, James Cook University</i>	Henry Brett*
Conveners	13:30 - 15:00 CEST / 19:30 - 21:00 SGT	G3.5 Glacial Isostatic Adjustment and Parameters Controlling Ice Sheet-Solid Earth Interaction Convener: Holger Steffen Co-convener: Valentina R. Barletta, Tanghua Li , Anya Reading, Bart Root	

27 April, Tuesday

	13:37 - 13:39 CEST / 19:37 - 19:39 SGT	EGU21-9320 Aftershock signature of the M7.5 Palu 2018 supershear rupture from a rapidly deployed nodal array Authors: Karen Lythgoe ¹ , Muzi Muzli ² , Win Oo ¹ , Hongyu Zeng ¹ , Rahmat Triyono ² , Phyo Maung Maung ¹ , Dwikorita Karnawati ² , and Shengji Wei ¹ (1) <i>Earth Observatory of Singapore, Nanyang Technological University, Singapore</i> , (2) <i>BMKG, Badan Meteorologi Klimatologi dan Geofisika, Jakarta, Indonesia</i>	Karen Lythgoe
vPICO Presentation	13:46 - 13:48 CEST / 19:46 - 19:48 SGT	EGU21-1935 Investigating the sedimentary DNA of palaeotsunami deposits in Thailand. Authors: Wenshu Yap ^{1,2} , Adam Switzer ^{1,2} , <i>Chris Gouramanis</i> ³ , <i>Ezequiel Marzinelli</i> ⁴ , Winona Wijaya ¹ , <i>Dale Dominey-Howes</i> ⁵ , <i>Maurizio Labbate</i> ⁶ , <i>Kruawun Jankaew</i> ^{7,8} , and <i>Federico Lauro</i> ^{1,9} (1) <i>Asian School of the Environment, Nanyang Technological University, Singapore</i> , (2) <i>Earth Observatory of Singapore, Nanyang Technological University, Singapore</i> , (3) <i>Research School of Earth Sciences, The Australian National University, ACT, Australia</i> , (4) <i>School of Life and Environmental Sciences, The University of Sydney, NSW, Australia</i> , (5) <i>Asia-Pacific Natural Hazards and Disaster Risk Research Group, School of Geosciences, The University of Sydney, NSW, Australia</i> , (6) <i>School of Life Sciences, University of Technology Sydney, NSW, Australia</i> , (7) <i>Department of Geology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand</i> , (8) <i>PTTEP, Bangkok, Thailand</i> , (9) <i>Singapore Centre for Environmental Life Sciences Engineering, Nanyang Technological University, Singapore</i>	Wenshu Yap

	<p>13:48 - 13:50 CEST / 19:48 - 19:50 SGT</p>	<p>EGU21-6822 Sediment analysis and modelling reveal short inundation distances and low onshore flow speed of the 2018 Palu-Donggala tsunami in Indonesia</p> <p>Authors: Adam D. Switzer^{1,2}, Jedrzej M. Majewski¹, Rachel YS. Guan², Benazir Benazir³, Ella Meilianda³, Peter Parham⁴, Robert Weiss⁵, Stacy Martin¹, Camille Jordan⁶, Jessica E. Pilarczyk⁶, and Benjamin P. Horton¹</p> <p>(1) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (2) Asian School of the Environment, Nanyang Technological University, Singapore (3) Tsunami and Disaster Mitigation Research Center, University Syiah Kuala, Indonesia (4) Centre of Tropical Geoengineering, Universiti Teknologi Malaysia, Malaysia (5) Department of Geosciences and Center for Coastal Studies, Virginia Tech, USA (6) Centre for Natural Hazards Research and Applied Research in Ichnology and Sedimentology, Department of Earth Sciences, Simon Fraser University, Canada</p>	<p>Adam D. Switzer</p>
	<p>13:50 - 13:52 CEST / 19:50 - 19:52 SGT</p>	<p>EGU21-10419 Assessing the rate of post-depositional change within the 2004 Indian Ocean tsunami deposit: implications for long-term records of paleotsunamis</p> <p>Authors: <i>Lillian Pearson</i>¹, <i>Jessica Pilarczyk</i>², <i>Andrea Hawkes</i>³, <i>Chris Gouramanis</i>⁴, Jędrzej Majewski⁵, <i>Nazli Ismail</i>⁶, <i>Tomi Afrizal</i>⁶, and Benjamin Horton⁵</p> <p>(1) Department of Marine Science, University of Southern Mississippi, Stennis Space Center, United States of America, (2) Centre for Natural Hazards Research, Simon Fraser University, Burnaby, Canada, (3) Department of Earth and Ocean Sciences, Center for Marine Science, University of North Carolina Wilmington, Wilmington, United States of America, (4) Research School of Earth Science, Australian National University, Canberra, Australia, (5) Earth Observatory of Singapore, Nanyang Technological University, Singapore, Republic of Singapore, (6) Department of Geophysics, Syiah Kuala University, Banda Aceh, Indonesia</p>	<p>Lillian Pearson*</p>
	<p>13:52 - 13:54 CEST / 19:52 - 19:54 SGT</p>	<p>EGU21-9341 Extending the paleo-tsunami record along the west coast of Sumatra, Indonesia</p> <p>Authors: Jędrzej Majewski¹, Patrick Daly¹, Adam Switzer^{1,2}, <i>Nazli Ismail</i>^{3,4}, <i>Tomi Afrizal</i>⁴ and Benjamin Horton^{1,2}</p> <p>(1) Earth Observatory of Singapore, Nanyang Technological University, Singapore, Singapore, (2) Asian School of Environment, Nanyang Technological University, Singapore, Singapore, (3) Department of Physics, Syiah Kuala University, Banda Aceh, Indonesia, (4) Tsunami & Disaster Mitigation Research Center, Syiah Kuala University, Banda Aceh, Indonesia</p>	<p>Jędrzej Majewski</p>
	<p>14:15 - 14:17 CEST / 20:15 - 20:17 SGT</p>	<p>EGU21-3642 Novel insights into the origin of dissolved organic carbon in the Sunda Shelf Sea using stable isotope ratios of hydrogen (d2H) and carbon (d13C).</p> <p>Authors: Nikita Kaushal¹, <i>Cristian Gudas</i>², Yongli Zhou¹, Adriana Lopes dos Santos¹, Avneet Kaur¹, and Patrick Martin¹</p>	<p>Nikita Kaushal</p>

		(1) Asian School of the Environment, Nanyang Technological University, Singapore, (2) Department of Ecology and Environmental Sciences, Umea University, Umea, Sweden	
	15:42 - 15:44 CEST / 21:42 - 21:44 SGT	EGU21-13902 Evidence of 8.2-ka event in Southeast Asia inferred from marginal marine sediments off Kallang River Basin, Singapore Authors: Yama Dixit, Stephen Chua, Yu Ting Yan, and Adam Switzer <i>Earth Observatory of Singapore, Singapore</i>	Yama Dixit

28 April, Wednesday

vPICO Presentation	09:28 - 09:30 CEST / 15:28 - 15:30 SGT	EGU21-7140 Quaternary caldera-forming eruptions from north to south Sumatra (Indonesia) Authors: Francesca Forni^{1,2}, Jeffrey A. Oalman^{1,2}, Giuditta Fellin³, Steffen Eisele^{1,2}, Marcus Phua^{1,2}, Marcel Guillong³, Hamdi Rifai⁴, and Caroline Bouvet de Maisonneuve^{1,2} <i>(1) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (2) Nanyang University Singapore, Asian School of the Environment, Singapore, Singapore, (3) Institute of Geochemistry and Petrology, Department of Earth Sciences, ETH Zurich, Zurich, Switzerland, (4) Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Padang, Indonesia</i>	Francesca Forni
	09:31 - 09:33 CEST / 15:31 - 15:33 SGT	EGU21-6916 Using apatite records of volatile budget and magma ascent rates to investigate eruption dynamics Authors: Olivier Bernard^{1,2}, Weiran Li¹, Fidel Costa^{1,2}, and Caroline Bouvet de Maisonneuve^{1,2} <i>(1) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (2) Asian School of the Environment, Nanyang Technological University, Singapore</i>	Olivier Bernard
	09:35 - 09:37 CEST / 15:35 - 15:37 SGT	EGU21-5361 Deriving centimeter-level coseismic deformations and source parameters of small-to-moderate earthquakes from time-series Sentinel-1 SAR images Authors: Heng Luo¹, Teng Wang², Shengji Wei^{3,4}, and Mingsheng Liao¹ <i>(1) Wuhan University, China, (2) School of Earth and Space Sciences, Peking University, China, (3) Asian School of the Environment, Nanyang Technological University, Singapore, (4) Earth Observatory of Singapore, Nanyang Technological University, Singapore</i>	Heng Luo*
		EGU21-6746 Decrease in Volcano Jet Noise Peak Frequency from Crater Expansion Authors: Kathleen McKee¹, Eevanjelene Snee², Sean Maher³, Cassandra Smith⁴, Kevin Reath⁵, Diana Roman¹, Robin S. Matoza³, Simon Carn⁶, Larry Mastin⁷, Kyle Anderson⁸, David Damby⁸, Anna Perttu⁹, Jelle Assink¹⁰, Rodrigo de Negri	

	<p>09:37 - 09:39 CEST / 15:37 - 15:39 SGT</p>	<p><i>Leiva^{3,11}, Artem Degterev¹², Alexander Rybin¹², Marina Chibisova¹², Ima Itikarai¹³, Kila Mulina¹³, and Steve Saunders¹³</i></p> <p><i>(1) Earth and Planets Laboratory, Carnegie Institution for Science, Washington, DC, USA, (2) School of Earth and Ocean Sciences, Cardiff University, Cardiff, Wales, UK, (3) Department of Earth Science and Earth Research Institute, University of California, Santa Barbara, Santa Barbara, CA, USA, (4) Alaska Volcano Observatory, Anchorage, AK, USA, (5) Department of Earth and Atmospheric Sciences, Cornell University, Ithaca, NY, USA, (6) Department of Geological and Mining Engineering and Sciences, Michigan Technological University, Houghton, MI, USA, (7) U.S. Geological Survey Cascades Volcano Observatory, Vancouver, WA, USA, (8) U.S. Geological Survey, California Volcano Observatory, Moffett Field, CA, USA, (9) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (10) R&D Seismology and Acoustics Department, Royal Netherlands Meteorological Institute (KNMI), De Bilt, Netherlands, (11) NDC-CTBT of the Chilean Nuclear Energy Commission, Chile, (12) akhalin Volcanic Eruptions Response Team (SVERT), Institute of Marine Geology and Geophysics, Yuzhno-Sakhalinsk, Russia, (13) Rabaul Volcano Observatory, Department of Mining and Petroleum, Geological Survey of Papua New Guinea, Rabaul, Papua New Guinea</i></p>	<p>Kathleen McKee*</p>
	<p>11:12 - 11:14 CEST / 17:12 - 17:14 SGT</p>	<p>EGU21-6960 Core-CT: A MATLAB application for the quantitative analysis of sediment and coral cores from X-ray computed tomography (CT)</p> <p>Authors: Yu Ting Yan^{1,2}, Stephen Chua², Thomas DeCarlo³, Philipp Kempf⁴, Kyle Morgan¹, and Adam Switzer^{1,2}</p> <p><i>(1) Asian School of Environment, Nanyang Technological University, Singapore, (2) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (3) College of Natural and Computational Sciences, Hawai'i Pacific University, United States, (4) Institute of Geological Sciences, Freie Universität Berlin, Germany</i></p>	<p>Yu Ting Yan</p>
	<p>14:20 - 14:22 CEST / 20:20 - 20:22 SGT</p>	<p>EGU21-6864 Coral skeletal luminescence records changes in terrigenous dissolved organic matter (tDOM) parameters in tropical coastal waters</p> <p>Authors: Patrick Martin¹, Nikita Kaushal¹, Jani Tanzil^{2,3}, Nivedita Sanwlani¹, Liudongqing Yang^{1,4}, Yongli Zhou¹, Nagur Cherukuru⁵, Syamil Sahar⁶, Moritz Müller⁷, Aazani Mujahid⁶, Jen Nie Lee⁸, and Nathalie Goodkin^{1,4,9}</p> <p><i>(1) Asian School of the Environment, Nanyang Technological University, Singapore, (2) St. John's Island National Marine Laboratory, National University of Singapore, Singapore, (3) Tropical Marine Science Institute, National University of Singapore, Singapore, (4) Earth Observatory of Singapore, Nanyang Technological University, Singapore, (5) CSIRO Oceans and Atmosphere, Canberra, ACT, Australia, (6) Faculty of Resource Science & Technology, University of Malaysia Sarawak, Malaysia, (7) Faculty of Engineering, Computing, and Science, Swinburne University of Technology Sarawak Campus, Malaysia, (8) Faculty of Science and Marine Environment, Universiti Malaysia Terengganu, Terengganu, Malaysia, (9) Department of Earth and Planetary Sciences, American Museum of Natural History, New York, U.S.A</i></p>	<p>Nikita Kaushal</p>

Conveners	09:00 - 10:30 CEST / 15:00 - 16:30 SGT	NH2.1 A multidisciplinary perspective on past to present volcanism and volcanic hazards (merged session) Convener: Christian Huebscher Co-conveners: Francesca Forni , Paul Albert, Tim Druitt, Steffen Eisele , Britta Jensen, Paraskevi Nomikou, Jonas Preine	
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30 April, Friday

vPICO Presentation	09:12 - 09:14 CEST / 15:12 - 15:14 SGT	EGU21-1453 Highly Heterogeneous Pore Fluid Pressure Enabled Rupture of Orthogonal Faults During the 2019 Ridgecrest Mw7.0 Earthquake Authors: Qibin Shi and Shengji Wei <i>Nanyang Technological University, Earth Observatory of Singapore, Asian School of the Environment, Singapore</i>	Qibin Shi
	09:23 - 09:25 CEST / 15:23 - 15:25 SGT	EGU21-9334 The Effects of the Quasi-Biannual Oscillation on Tephra Distribution from a Plinian Eruption Authors: Steffen Eisele ¹ , Yang Qingyuan ¹ , Caroline Bouvet de Maissoneuve ^{1,2} , and Susanna F. Jenkins ^{1,2} <i>(1) Asian School of the Environment, NTU Singapore, Singapore, (2) Earth Observatory of Singapore, NTU Singapore, Singapore</i>	Steffen Eisele
	09:27 - 09:29 CEST / 15:27 - 15:29 SGT	EGU21-10575 The numerical reconstruction of three past eruptions at Gede volcano (Indonesia) Authors: Eleanor Tennant ¹ , Susanna Jenkins ¹ , Annie Winson ² , Christina Widiwijayanti ¹ , Hendra Gunawan ³ , Nia Haerani ³ , Nugraha Kartadinata ³ , Wilfridus Banggur ³ , and Hetty Triastuti ³ <i>(1) Earth Observatory Singapore, Singapore, (2) British Geological Survey, UK, (3) Center for Volcanology and Geological Hazard Mitigation, West Java, Indonesia</i>	Eleanor Tennant
	13:52 - 13:54 CEST / 19:52 - 19:54 SGT	EGU21-10615 Past, Present and Future Sea Levels in Singapore Authors: Timothy Shaw ¹ , Stephen Chua ¹ , Jedrzej Majewski ¹ , Li Tanghua ¹ , Dhrubajyoti Samanta ¹ , Robert Kopp ^{2,3} , and Benjamin Horton ¹ <i>(1) Earth Observatory of Singapore, Nanyang Technological University, Singapore, Singapore, (2) Department of Earth & Planetary Sciences, Rutgers University, New Brunswick, USA, (3) Institute of Earth, Ocean and Atmospheric Sciences, Rutgers University, New Brunswick, USA</i>	Timothy Shaw
	14:01 - 14:03 CEST / 20:01 - 20:03 SGT	EGU21-13812 A new Holocene record from a far-field site in the Indian Ocean to constrain Holocene sea level. Authors: Geoff Richards , Jedrzej Majewski , Christabel Tan , Fangyi Tan , Tanghua Li , Timothy Shaw , and Benjamin Horton .	Geoff Richards

	<i>Earth Observatory of Singapore, Nanyang Technological University, Singapore, Singapore</i>	
14:03 - 14:05 CEST / 20:03 - 20:05 SGT	<p>EGU21-14572 Spatial variability of Holocene relative sea level on the China coast</p> <p>Authors: <i>Nicole Khan¹, Howard Kwok Yin Yu¹, Circle Yuanyuan Hong¹, Erica Ashe², Tanghua Li³, Fengling Yu⁴, Huixian Chen³, Benjamin Horton³, William Richard Peltier⁵, and Yongqiang Zong¹</i></p> <p>(1) <i>Department of Earth Science and Swire Institute of Marine Science, University of Hong Kong, Hong Kong, (2) Department of Earth & Planetary Sciences and Rutgers Energy Institute, Piscataway, and Institute of Earth, Ocean & Atmospheric Sciences, Rutgers University, (3) Earth Observatory of Singapore and the Asian School of Earth Sciences, Nanyang Technological University, Singapore, (4) Xiamen University, (5) Department of Physics, University of Toronto</i></p>	Nicole Khan*
16:04 - 16:06 CEST/ 22:04 - 22:06 SGT	<p>EGU21-14952 Explaining the continuing inflation of Montserrat</p> <p>Authors: <i>Jurgen Neuberg¹ and Benoit Taisne²</i></p> <p>(1) <i>University of Leeds, Institute of Geophysics & Tectonics, School of Earth & Environment, Leeds, United Kingdom, (2) Earth Observatory of Singapore, Nanyang Technological University, Singapore</i></p>	Jurgen Neuberg*
16:14 - 16:16 CEST / 22:14 - 22:16 SGT	<p>EGU21-8618 Role of Regional Ocean Dynamics in Dynamic Sea Level Projections by the end of the 21st Century over Southeast Asia</p> <p>Authors: <i>Dhrubajyoti Samanta¹, Svetlana Jevrejeva², Hindumathi K. Palanisamy², Kristopher B. Karnauskas³, Nathalie F. Goodkin^{1,4}, and Benjamin P. Horton¹</i></p> <p>(1) <i>Nanyang Technological University, Singapore, (2) Centre for Climate Research Singapore, Singapore, (3) University of Colorado Boulder, USA, (4) American Museum of Natural History, USA</i></p>	Dhrubajyoti Samanta

* Denotes presentations co-authored by EOS and/or ASE researchers.