

E / Black swans and grey swan events

Chair(s): Adam Switzer, Junichi Goto

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 E-D1-AM1-LS-001	NH-A007 Were the 2004 Indian Ocean and 2011 Japan Tsunamis Black Swan Events?	Kenji SATAKE ^{#+} <i>The University of Tokyo, Japan</i>
3	09:00 E-D1-AM1-LS-002	NH-A015 A High Resolution Hydrodynamic Model of Megathrust Tsunami Inundation in Hong Kong	Iain WILLIS ^{1#+} , Philip OLDHAM ² ¹ <i>JBA Risk Management Pte Ltd, Singapore,</i> ² <i>JBA Risk Management Limited, United Kingdom</i>
4	09:15 E-D1-AM1-LS-003	NH-A310 Holocene Tectonic Deformation, Along a Fault Previously Considered Inactive, Uncovered by a Fossil Coral Microatoll Study in Western Borneo, South China Sea	Jedrzej MAJEWSKI ^{1#+} , Adam SWITZER ¹ , Aron MELTZNER ¹ , Benjamin HORTON ¹ , Peter PARHAM ² , Sarah BRADLEY ³ , Jeremy PILE ⁴ , Hong-Wei CHIANG ⁵ , Xianfeng WANG ¹ , Tyiin CHIEW ⁶ , Jani TANZIL ¹ , Moritz MULLER ⁷ , Aazani MUJAHID ⁸ ¹ <i>Nanyang Technological University, Singapore,</i> ² <i>National University of Malaysia, Malaysia,</i> ³ <i>Delft University of Technology, Netherlands,</i> ⁴ <i>Bournemouth University, United Kingdom,</i> ⁵ <i>National Taiwan University, Taiwan,</i> ⁶ <i>University Malaysia Sarawak, Malaysia,</i> ⁷ <i>Swinburne University, Australia,</i> ⁸ <i>Universiti Malaysia Sarawak, Malaysia</i>
5	09:30 E-D1-AM1-LS-004	NH-A218 Towards the Assimilation of Deformation Data for Eruption Forecasting	Mary Grace BATO ^{1#+} , Virginie PINEL ¹ , Yajing YAN ² ¹ <i>Institute of Earth Sciences (ISTerre), France,</i> ² <i>University Savoie Mont Blanc, France</i>
6	09:45 E-D1-AM1-LS-005	NH-A129 Australasian Tektites Impact Crater Buried Under Lavas of the Bolaven Plateau, Southern Laos	Kerry SIEH ^{1#+} , Jason HERRIN ¹ , Weerachat WIWEGWIN ² , Vanpheng SIHAVONG ³ , Brian JICHA ⁴ , Brad SINGER ⁴ , Paramesh BANERJEE ¹ , Punya CHARUSIRI ⁵ , Dayana SCHONWALDER ¹ , Tawatchai CHUALAOWANICH ² , Khamphao SINGSOMBOUN ³ ¹ <i>Nanyang Technological University, Singapore,</i> ² <i>Department of Mineral Resources, Thailand,</i> ³ <i>Department of Geology and Mines, Lao People's Democratic Republic,</i> ⁴ <i>University of Wisconsin-Madison, United States,</i> ⁵ <i>Chulalongkorn University, Thailand</i>

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E / Black swans and grey swan events

Chair(s): Sastry Dhara, Iain Willis

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 E-D1-AM2-LS-006	NH-A009 Counterfactual Disaster Analysis for Tracking Black Swans	Gordon WOO ^{#+} <i>Risk Management Solutions, United Kingdom</i>
2	11:15 E-D1-AM2-LS-007	NH-A104 Probabilistic Tectonic Hazard Assessment Methodologies for High-Level Radioactive Waste Disposal in Japan	Junichi GOTO ^{1#+} , Neil CHAPMAN ² ¹ Nuclear Waste Management Organization of Japan (NUMO), Japan, ² Chapman & Co Consulting, Swaziland
3	11:30 E-D1-AM2-LS-008	NH-A259 Repeat Storm Surge Disasters of Typhoon Haiyan and its 1897 Predecessor in the Philippines	Janneli Lea SORIA ^{1#+} , Adam SWITZER ¹ , Cesar VILLANOY ² , Hermann M. FRITZ ³ , Princess Hope BILGERA ² , Olive CABRERA ⁴ , Fernando SIRINGAN ² , Yvaine STA MARIA ² , Rovie RAMOS ⁵ , Ian FERNANDEZ ² ¹ Nanyang Technological University, Singapore, ² University of the Philippines, Philippines, ³ Georgia Institute of Technology, United States, ⁴ University of the Philippines Diliman, Philippines, ⁵ Asian School of the Environment, Singapore
4	11:45 E-D1-AM2-LS-009	NH-A094 Application of Time-Lagged Cloud-Resolving Ensemble Quantitative Precipitation Forecasts in Taiwan for Typhoon Morakot (2009)	Chung-Chieh WANG ^{#+} , Shin-Hau CHEN <i>National Taiwan Normal University, Taiwan</i>
5	12:00 E-D1-AM2-LS-010	NH-A232 Why Quantify Hazard and Risk? General Points and a Few Philippine Applications	Chris NEWHALL ^{1#+} , Renato SOLIDUM ² ¹ Mirisbiris Garden and Nature Center, Philippines, ² Philippine Institute of Volcanology and Seismology, Philippines
6	12:03 E-D1-AM2-LS-011	NH-A145 A Re-Evaluation of PHIVOLCS' 5-Meter Buffer Zone Recommendation from the Trace of Active Faults as Safety Net for Ground Rupture Hazards	Teresito BACOLCOL ^{#+} <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
8	12:06 E-D1-AM2-LS-013	NH-A066 Inter-Seismic Behavior and Earthquake Recurrence Interval from Coral Microatoll Records on Ramree Island, Western Myanmar	Sze-Chieh LIU ^{1#+} , J. Bruce H. SHYU ¹ , Yu WANG ² , Chung-Che WANG ¹ , Hong-Wei CHIANG ¹ , Soe Thura TUN ³ ¹ National Taiwan University, Taiwan, ² Nanyang Technological University, Singapore, ³ Myanmar Earthquake Committee, Myanmar
9	12:09 E-D1-AM2-LS-014	NH-A159 Surface Rupture of the 10 February 2017 M6.7 Surigao Del Norte Earthquake in the Philippines: Implication for Fault Avoidance Zone	Kathleen PAPIONA ^{#+} , Maria Isabel ABIGANIA, Robelyn MANGAHAS, Jeffrey PEREZ, Daniel Jose BUHAY, Bryan MARFITO, Cathy POGAY, Deo Carlo LLAMAS, Teresito BACOLCOL, Renato SOLIDUM, Melcario PAGTALUNAN, Melissa TAMAYO, Dynie DOLOIRAS, Daphne AGONIA, Evelyn SERENADO <i>Philippine Institute of Volcanology and Seismology, Philippines</i>

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C / Hazard development under a changing climate

Chair(s): Likha Minimo, Samantha Cinco

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 C-D2-AM1-LS-001	NH-A050 Impact of Increased Occurrence of Tropical Cyclones in a Warming Arabian Sea	Prasanna Kumar S ^{1#} , Riyanka ROY CHOWDHURY ² <i>¹ National Institute of Oceanography, India, ² Indian Institute of Technology Kharagpur, India</i>
2	09:00 C-D2-AM1-LS-002	NH-A258 Changing Trend in the Sea Surface Temperature Gradient Over South China Sea and Its Relation to the Asian Precipitation	Bakshi Hardeep VAID [#] , X. San Liang LIANG <i>Nanjing University of Information Science and Technology (NUIST), China</i>
3	09:15 C-D2-AM1-LS-003	NH-A193 On the Need for Paleotempestology Research in the Western Pacific	Adam SWITZER ^{1#} , Gladys GAN ¹ , Linlin LI ¹ , Janneli Lea SORIA ¹ , Christos GOURAMANIS ² , Jonathan WOODRUFF ³ <i>¹ Nanyang Technological University, Singapore, ² National University of Singapore, Singapore, ³ University of Massachusetts Amherst, United States</i>
4	09:30 C-D2-AM1-LS-004	NH-A100 Climate Change Scenario-Based Storm Surge Hazard Mapping of Typhoon Haiyan-Affected Provinces	Lia Anne GONZALO ^{1#} , Lea DASALLAS ²⁺ , Kenneth SUAREZ ¹ , Ian Robert ABIERA ² , Michael Marie Angelo RAMOS ³ , Paul Irah ABELLA ¹ , Krichi May CABACABA ³ , Trizia MULDONG ² , Alfredo Mahar LAGMAY ¹ <i>¹ University of the Philippines Diliman, Philippines, ² University of the Philippines, Philippines, ³ Project NOAH (Nationwide Operational Assessment of Hazards), Philippines</i>
5	09:45 C-D2-AM1-LS-005	NH-A127 Climate Change Vulnerability Assessment Using Climate Change Adjusted Hydro-Meteorological Hazard Maps	Joy SANTIAGO ^{1#} , Alfredo Mahar LAGMAY ² , Judd TABLAZON ³ , Jerico MENDOZA ¹ , Liwayway GAWILAN ⁴ , Cybelle Angelie BAUTISTA ⁴ , Princess Hope BILGERA ⁵ , Katrina CORPUS ²⁺ <i>¹ University of the Philippines Resilience Institute and Nationwide Operational Assessment of Hazards Center, Philippines, ² University of the Philippines Diliman, Philippines, ³ Project NOAH (Nationwide Operational Assessment of Hazards), Philippines, ⁴ Miriam College, Philippines, ⁵ University of the Philippines, Philippines</i>
6	10:00 C-D2-AM1-LS-006	NH-A054 Flood Hazard in Tajikistan Under a Changing Climate	Yannis FOURNIADIS ^{1#} , Matthew FREE ¹ , Jason MANNING ¹ , Miguel PIEDRA ¹ , Anatoly ISCHUK ² , Violeta STRIZHAKOVA ³ <i>¹ Arup, United Kingdom, ² Institute of Geology, Earthquake Engineering and Seismology of the Academy of Sciences, Tajikistan, ³ Hydrometeorological Agency, Tajikistan</i>

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B / Transient and long-term effects of catastrophic perturbations

Chair(s): Niels Hovius, Martina De Cristofaro

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 B-D2-AM2-LS-001	NH-A039 Glacial Lake Outburst Floods and Fluvial Erosion in the Himalaya – Insights from the 2016 Bhote Koshi GLOF	Cook L. KRISTEN ^{1#+} , Christoff ANDERMANN ¹ , Florent GIMBERT ² , Niels HOVIUS ^{1,3} , Basanta ADHIKARI ⁴ <i>¹ GFZ German Research Centre for Geosciences, Germany, ² National Center for Scientific Research (CNRS), France, ³ University of Potsdam, Germany, ⁴ Tribhuvan University, Nepal</i>
2	11:15 B-D2-AM2-LS-002	NH-A205 Monitoring Perturbations of Earth Surface Processes After the 2015 Gorkha Earthquake in Nepal	Christoff ANDERMANN ^{1#+} , Kristen COOK ¹ , Jens TUROWSKI ¹ , Odin MARC ² , Robert BEHLING ¹ , Luc ILLIEN ³ , Basanta ADHIKARI ⁴ , Christoph SENS-SCHÖNFELDER ¹ , Sigrid RÖSSNER ¹ , Binod PARAJULI ⁵ , Niels HOVIUS ^{1,6} <i>¹ GFZ German Research Centre for Geosciences, Germany, ² University of Strasbourg, France, ³ ENS Paris, France, ⁴ Tribhuvan University, Nepal, ⁵ Department of Hydrology and Meteorology, Nepal, ⁶ University of Potsdam, Germany</i>
3	11:30 B-D2-AM2-LS-003	NH-A199 Effects of Seismic Hazards on Rock Mass Property and Water Retention Capacity of Existing Dams: A Case Study of Kaswati Dam, Kachchh, Gujarat, India	Niladri BHATTACHARJEE ^{#+} , Sarada Prasad MOHANTY <i>Indian Institute of Technology (Indian School of Mines), Dhanbad, India</i>
4	11:45 B-D2-AM2-LS-004	NH-A223 A Landslide Triggers Seismic Properties Changes in an Exploited Geothermal Reservoir, West Java, Indonesia	Philippe JOUSSET ^{1#+} , Trichandi RAHMANTARA ² , Rifqa WICAKSONO ³ , Cornelis WEEMSTRA ² , Kemal ERBAS ¹ , Rachmat SULE ⁴ <i>¹ GFZ German Research Centre for Geosciences, Germany, ² Delft University of Technology, Netherlands, ³ Star Energy Ltd, Indonesia, ⁴ Bandung Institute of Technology, Indonesia</i>
5	12:00 B-D2-AM2-LS-005	NH-A005 Spatial Autocorrelation Changes in Multitemporal SAR Images for Automatic Event Landslides Detection, the LANDSLIP Project	Alessandro MONDINI ^{1#+} , Fausto GUZZETTI ¹ , Helen REEVES ² , Bruce MALAMUD ³ <i>¹ National Research Council (CNR), Italy, ² British Geological Survey (BGS), United Kingdom, ³ King's College London, United Kingdom</i>

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B / Transient and long-term effects of catastrophic perturbations

Chair(s): Alessandro Mondini, Farrukh Chishtie

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 B-D3-AM1-LS-006	NH-A327 Applications of Economic Exposure Databases for Natural Hazard Risk Management: Natural Catastrophe Data Analytics Exchange (NatCatDAX) Perspective	Sastry DHARA ^{#+} <i>Nanyang Technological University, Singapore</i>
2	09:00 B-D3-AM1-LS-007	NH-A087 The Long-Run Impacts of Flood Experiences on Subjective Well-Being (Welfare) and the Factors that Influence Flood Recovery	Paul HUDSON ^{#+} <i>University of Potsdam, Germany</i>
3	09:15 B-D3-AM1-LS-008	NH-A120 Elevated Landslide Rates After Earthquakes: Coupling Geomorphological and Geophysical Data to Constrain Rock Damage and Healing	Odin MARC ^{1#} , Niels HOVIUS ^{2,3+} , Patrick MEUNIER ⁴ , Christoph SENS-SCHONFELDER ² , Manuel HOBIGER ⁵ , Ya-Ju HSU ⁶ , Mako OHZONO ⁷ , Kaoru SAWAZAKI ⁸ , Claire RAULT ⁴ <i>¹ University of Strasbourg, France, ² GFZ German Research Centre for Geosciences, Germany, ³ University of Potsdam, Germany, ⁴ ENS Paris, France, ⁵ ETH Zurich, Switzerland, ⁶ Academia Sinica, Taiwan, ⁷ Hokkaido University, Japan, ⁸ National Research Institute for Earth Science and Disaster Prevention, Japan</i>
6	09:30 B-D3-AM1-LS-009	NH-A153 Site-Specific Rainfall Intensity-Duration Thresholds for the Initiation of Deep-Seated Slope Movements	Carlo BONTIA ^{1,2#+} , Ricarido SATURAY JR. ^{1,2} , Leodegario II LORENZO ¹ , Nathan Azriel VERACRUZ ^{1,2} , Meryll Angelica VIERNES ^{1,2} , Renato SOLIDUM ¹ <i>¹ Philippine Institute of Volcanology and Seismology, Philippines, ² University of the Philippines Diliman, Philippines</i>
7	09:33 B-D3-AM1-LS-010	NH-A044 Long-Term Evolution of Landslide Deposits Along the Laonung River Catchment, Southern Taiwan	Chan-Mao CHEN ^{#+} , Hsiu-Kuo TSUI, J. Bruce H. SHYU <i>National Taiwan University, Taiwan</i>
8	09:36 B-D3-AM1-LS-011	NH-A075 Flowslide Early Warning System in Pyroclastic Deposits	Martina DE CRISTOFARO ¹⁺ , Lucio OLIVARES ¹ , Nadia NETTI ² , Emilia DAMIANO ¹ , Antonia BRUNZO ^{1#} , Roberto GRECO ¹ <i>¹ University of Campania "Luigi Vanvitelli", Italy, ² University of Naples "Federico II", Italy</i>
9	09:39 B-D3-AM1-LS-012	NH-A154 Landslide Characterization Through Real-Time Monitoring of Surface and Subsurface Deformations in Rainfall Events	Nathan Azriel VERACRUZ ^{1,2#+} , Marjorie GARCIA ¹ , Renato SOLIDUM ¹ <i>¹ Philippine Institute of Volcanology and Seismology, Philippines, ² University of the Philippines Diliman, Philippines</i>
10	09:42 B-D3-AM1-LS-013	NH-A045 Fluvial Sediment Transportation Processes in Flood Events Using High-Resolution Topographic Survey	Yu-Hsuan YIN ^{1#+} , J. Bruce H. SHYU ¹ , Kristen COOK ² <i>¹ National Taiwan University, Taiwan, ² GFZ German Research Centre for Geosciences, Germany</i>

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B / Transient and long-term effects of catastrophic perturbations

Chair(s): Chris Gouramanis, Qi Li

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 B-D3-AM2-LS-014	NH-A192 Transient Deformation Following the 2016 Kumamoto Earthquake: A 4D Study	James Daniel Paul MOORE ^{#+} <i>Nanyang Technological University, Singapore</i>
2	11:15 B-D3-AM2-LS-015	NH-A175 Prehistoric Earthquake Events Inferred from Variably Uplifted Coral Reef Terraces in Northwest Luzon Island, Philippines	Kathrine MAXWELL ^{1#+} , Noelynna RAMOS ¹ , Hiroyuki TSUTSUMI ² , Fucai DUAN ³ , Yu-Chen CHOU ³ , Chuan-Chou SHEN ³ <i>¹ University of the Philippines Diliman, Philippines, ² Doshisha University, Japan, ³ National Taiwan University, Taiwan</i>
3	11:30 B-D3-AM2-LS-016	NH-A155 Implications of Offshore Active Faults Mapping in the Philippines	Bryan MARFITO ^{1#+} , Deo Carlo LLAMAS ¹ , Emmanuelle MITIAM ¹ , Teresito BACOLCOL ¹ , Takashi NAKATA ² , Ericson BARISO ¹ , Winchelle SEVILLA ¹ <i>¹ Philippine Institute of Volcanology and Seismology, Philippines, ² Hiroshima University, Japan</i>
4	11:45 B-D3-AM2-LS-017	NH-A017 Predicting Groundwater Salinization and Aquifer Recovery Processes Under Future Tsunami Disaster Scenarios: A Numerical Modelling Study at the Niijima Island, Japan	Jiaqi LIU ^{#+} , Tomochika TOKUNAGA <i>The University of Tokyo, Japan</i>
7	12:00 B-D3-AM2-LS-018	NH-A142 Update on Tsunami Hazard Map Enhancement in the Philippines	Analyn AQUINO ^{#+} , Joan SALCEDO, Jayvie NADUA, Ishmael NARAG, Maria Leonila BAUTISTA, Bartolome BAUTISTA, Renato SOLIDUM, Jhonalyn BLACER <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
9	12:03 B-D3-AM2-LS-019	NH-A113 The 18th Century Eruption of Makaturing Volcano, Philippines: A Catalyst for Slavery, Raiding and Regional Conflict	Marcus PHUA ^{1#+} , Susanna JENKINS ¹ , James WARREN ² , Caroline BOUVET DE MAISONNEUVE ¹ <i>¹ Nanyang Technological University, Singapore, ² Murdoch University, Australia</i>
10	12:06 B-D3-AM2-LS-020	NH-A024 Effects of Different Methods to Calculate the Potential Evaporation for the Drought Index Estimations (SPEI) in the East Asia	Myoung-Jin UM ¹⁺ , Yeonjoo KIM ^{1#} , Daeryong PARK ² , Munmo KIM ³ <i>¹ Yonsei University, South Korea, ² Kunkuk University, South Korea, ³ Shingu College, South Korea</i>

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Tuesday, February 06, 2018 | 08:30 - 10:15 | Ballroom 3

A / Natural hazards in the megacity

Chair(s): David Higgitt, Chuanxu Chen

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 A-D1-AM1-BR3-040	NH-A328 Can You Hear Me? From Source To Stakeholders, How Can We Harvest Infrasound Signals And What Can They Offer Developing Megacities?	Benoit TAISNE ^{#+} , Anna PERTTU <i>Nanyang Technological University, Singapore</i>
2	09:00 A-D1-AM1-BR3-001	NH-A070 Hazards Resulting from a Future Large Eruption at Taal Volcano in Philippines	Jacques ZLOTNICKI ^{1#+} , Yoichi SASAI ² , Malcolm JOHNSTON ³ , George VARGEMEZIS ⁴ , Paul Karson ALANIS ⁵ , Egardo VILLACORTE ⁵ , Paolo RENIVA ⁵ , Juan M. CORDON ⁵ <i>¹ Clermont - Ferrand Earth Physics Observatory, National Center for Scientific Research, France, ² Tokai University, Japan, ³ United States Geological Survey, United States, ⁴ Tessoniki University, Greece, ⁵ Philippine Institute of Volcanology and Seismology, Philippines</i>
3	09:15 A-D1-AM1-BR3-002	NH-A135 Evaluating Tephra Fall Hazard and Risk for the Asia-Pacific Region	Susanna JENKINS ^{1#+} , Christina MAGILL ² , Russell BLONG ³ <i>¹ Nanyang Technological University, Singapore, ² Macquarie University, Australia, ³ Aon Benfield, Australia</i>
4	09:30 A-D1-AM1-BR3-003	NH-A226 Sensing Extreme Atmospheric Events using GNSS Observations	Rui FERNANDES ^{1#+} , Kristine Mae CARNICER ^{2,3} , Machiel BOS ¹ , André SÁ ¹ , Daniel MCNAMARA ⁴ <i>¹ University of Beira Interior (UBI) and Institute Geophysical Infante D. Luíz (IDL), Portugal, ² De La Salle University, Philippines, ³ Ateneo de Davao University, Philippines, ⁴ Manila Observatory, Philippines</i>
5	09:45 A-D1-AM1-BR3-004	NH-A246 Improving Typhoon Forecasts with Active Microwave Remotely Sensed Measurements of Surface Air Pressure	Bing LIN ^{1#+} , Qilong MIN ² , Steven HARRAH ¹ , Yongxiang HU ¹ , Roland LAWRENCE ³ <i>¹ NASA Langley Research Center, United States, ² State University of New York, United States, ³ National Institute of Aerospace, United States</i>
6	10:00 A-D1-AM1-BR3-005	NH-A014 "APEC Blue" Association with Emission Control and Meteorological Conditions Detected by Multi-Scale Statistics	Ping WANG ^{1#+} , Xingang DAI ² <i>¹ Chinese Academy of Meteorological Sciences, China, ² Chinese Academy of Sciences, China</i>

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A / Natural hazards in the megacity

Chair(s): Jacques Zlotniki, Ping Wang

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 A-D1-AM2- BR3-006	NH-A300 Development of Tsunami Damage Fragility Curves for Coastal Infrastructure Based on the 2011 Great East Japan Tsunami	Constance Ting CHUA ^{1#} , Adam SWITZER ¹ , Anawat SUPPASRI ² , Linlin LI ¹ , David LALLEMANT ¹ , Susanna JENKINS ¹ , Nigel WINSPEAR ³ , Amanda Yee Lin CHEONG ¹ <i>¹ Nanyang Technological University, Singapore, ² Tohoku University, Japan, ³ SCOR Global P&C, Singapore</i>
2	11:00 A-D1-AM2- BR3-007	NH-A170 A Probabilistic Seismic Hazard Assessment of Metropolitan Manila	Henremagne PENARUBIA [#] , Rhommel GRUTAS, Janila DEOCAMPO, Myleen ENRIQUEZ, Jun BONITA, Melchor LASALA, Roberto TIGLAO, Teresito BACOLCOL, Jeffrey PEREZ, Kathleen PAPIONA, Mabelline CAHULOGAN, Ishmael NARAG, Winchelle SEVILLA, Maria Leonila BAUTISTA, Bartolome BAUTISTA, Renato SOLIDUM <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
3	11:15 A-D1-AM2- BR3-008	NH-A273 Linking Incoming Plate Variations to Seismicity Along the Manila Trench	Chuanxu CHEN [#] , Shiguo WU, Xintong XIE <i>Chinese Academy of Sciences, China</i>
4	11:30 A-D1-AM2- BR3-009	NH-A296 Seismotectonic Modelling in the Bay of Bengal Region	Sumanta PASARI [#] <i>BITS Pilani, India</i>
5	11:45 A-D1-AM2- BR3-010	NH-A289 An Active Dextral Fault System Near Yangon Revealed by the Mw 5.1 Teik-Kyi Earthquake in 2017	Yu WANG ^{1#} , Xin WANG ¹ , Shengji WEI ¹ , Phyo Maung MAUNG ¹ , Lin Thu AUNG ^{1,2} <i>¹ Nanyang Technological University, Singapore, ² Myanmar Geosciences Society, Myanmar</i>
6	12:00 A-D1-AM2- BR3-011	NH-A187 Repeat Magnetic Observations at Taal and Mayon Volcano	Paul Karson ALANIS ^{1#} , Yoichi SASAI ² , Juan M. CORDON, JR. ¹ , Akihiro TAKEUCHI ³ , Toshiyasu NAGAO ² , Florence RAMIREZ ⁴ , Allan LOZA ¹ , Jerome DE LIMA ¹ , Naomi PALLERA ¹ <i>¹ Philippine Institute of Volcanology and Seismology, Philippines, ² Tokai University, Japan, ³ The University of Tokyo, Japan, ⁴ University of San Carlos, Philippines</i>
7	12:03 A-D1-AM2- BR3-012	NH-A222 Imaging [Recent] Philippine Earthquakes from Space	Mary Grace BATO ^{1#} , Léa POUSSE-BELTRAN ¹ , François JOUANNE ¹ , Romain JOLIVET ² , James HOLLINGSWORTH ¹ , John Dale DIANALA ³ , Richard WALKER ³ , Virginie PINEL ¹ , Gay Jane PEREZ ⁴ , Kaye VERGEL ⁴ <i>¹ Institute of Earth Sciences (ISTerre), France, ² École Normale Supérieure, France, ³ University of Oxford, United Kingdom, ⁴ University of the Philippines Diliman, Philippines</i>
8	12:06 A-D1-AM2- BR3-013	NH-A144 Ground Surface Deformation from Recent Philippine Earthquakes Detected Using DInSAR	Rodrigo ECO [#] , Ma. Criselda BALDAGO, Jolly Joyce SULAPAS, Alfredo Mahar LAGMAY <i>University of the Philippines Diliman, Philippines</i>
9	12:09 A-D1-AM2- BR3-014	NH-A265 Active Faults in Negros Island, Central Philippines	Deo Carlo LLAMAS ^{1#} , Robelyn MANGAHAS ¹ , Kathleen PAPIONA ¹ , Hideaki GOTO ² , Takashi NAKATA ² , Renato SOLIDUM ¹ <i>¹ Philippine Institute of Volcanology and Seismology, Philippines, ² Hiroshima University, Japan</i>

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Wednesday, February 07, 2018 | 08:30 - 10:15 | Ballroom 3

A / Natural hazards in the megacity

Chair(s): Jeanne Huang, Petr Puncochar

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 A-D2-AM1- BR3-015	NH-A253 Challenges and Progresses of Flood Forecasting of Guangzhou City Under Rapid Urbanization	Yangbo CHEN ^{#+} <i>Sun Yat-sen University, China</i>
2	09:00 A-D2-AM1- BR3-016	NH-A272 Land Cover Change and Use of Soilgrid Data for Assessing Flash Flood in Marikina River Basin, The Philippines	Dhruba SHRESTHA ^{1#+} , Beverly BREBANTE ² , Victor JETTEN ¹ , Eugene HERRERA ³ , Ariel BLANCO ³ , Rhodora GONZALEZ ³ , Dinand ALKEMA ¹ ¹ <i>University of Twente, Netherlands</i> , ² <i>Mines and Geosciences Bureau, Philippines</i> , ³ <i>University of the Philippines, Philippines</i>
3	09:15 A-D2-AM1- BR3-017	NH-A303 A Critical Comparison of Flood Models for Assessing Flash Flood in Marikina River Basin, Philippines	Dinand ALKEMA ^{1#+} , Victor JETTEN ² , Dhruba SHRESTHA ² , Ruediger ANLAUF ³ , Eugene HERRERA ⁴ , Ariel BLANCO ⁴ , Rhodora GONZALEZ ⁴ ¹ <i>Faculty of Geo-Information Science and Earth Observation (ITC), Netherlands</i> , ² <i>University of Twente, Netherlands</i> , ³ <i>Osnabrueck University of Applied Sciences, Germany</i> , ⁴ <i>University of the Philippines, Philippines</i>
4	09:30 A-D2-AM1- BR3-018	NH-A305 A Flood Risk Framework for Ecosystem Services Valuation: A Case Study in the Mekong River Basin	Mariano BALBI ^{1#+} , David LALLEMANT ² , Jack BAKER ³ , Perrine HAMEL ³ ¹ <i>University of Buenos Aires, Argentina</i> , ² <i>Nanyang Technological University, Singapore</i> , ³ <i>Stanford University, United States</i>
7	09:33 A-D2-AM1- BR3-019	NH-A122 Street Floods in Metro Manila and Possible Solutions	Patricia Anne DELMENDO ^{1#+} , Alfredo Mahar LAGMAY ² , Jerico MENDOZA ³ , Fatima CIPRIANO ¹ , Micah Nieves LACSAMANA ¹ , Marc Anthony MOISES ¹ , Nicanor III PELLEJERA ¹ , Kenneth Niño PUNAY ¹ , Glenn SABIO ¹ , Laurize SANTOS ¹ , Jonathan SERRANO ¹ , Herbert James TANIZA ¹ , Neil Eneri TINGIN ¹ ¹ <i>The University of the Philippines Nationwide Operational Assessment of Hazards (UP- NOAH), Philippines</i> , ² <i>University of the Philippines Diliman, Philippines</i> , ³ <i>University of the Philippines Resilience Institute and Nationwide Operational Assessment of Hazards Center, Philippines</i>
9	09:36 A-D2-AM1- BR3-020	NH-A036 Comparing the Urbanization and Global Warming Impacts on Extreme Rainfall Characteristics in Southern China Pearl River Delta Megacity Based on Dynamical Downscaling	Kwun Yip FUNG ^{1#+} , Francis TAM ¹ , Ziqian WANG ² ¹ <i>The Chinese University of Hong Kong, Hong Kong SAR</i> , ² <i>Sun Yat-sen University, China</i>
10	09:39 A-D2-AM1- BR3-021	NH-A295 A Preliminary Study of Food-Water-Energy Nexus During Drought in Taoyuan, Taiwan	Kai-Yuan KE ^{#+} , Yih-Chi TAN, Ya Zhu YU <i>National Taiwan University, Taiwan</i>
11	09:42 A-D2-AM1- BR3-022	NH-A297 Storm Surge Modeling of the 2017 Typhoon Hato Based on a Field Survey in Macau	Linlin LI ^{1#+} , Jie YANG ² , Chuan-Yao LIN ³ , Constance Ting CHUA ¹ , Yu WANG ¹ , Kuifeng ZHAO ² , Yun-Ta WU ² , Philip L-F LIU ² , Adam SWITZER ¹ , Kai Meng MOK ⁴ ¹ <i>Nanyang Technological University, Singapore</i> , ² <i>National University of Singapore, Singapore</i> , ³ <i>Academia Sinica, Taiwan</i> , ⁴ <i>University of Macau, Macau</i>
12	09:45 A-D2-AM1- BR3-023	NH-A268 Tsunami Effects from Manila Trench on the Archipelago in the South China Sea: A Numerical Simulation	Xintong XIE ⁺ , Chuanxu CHEN, Shiguo WU [#] <i>Chinese Academy of Sciences, China</i>
13	09:48 A-D2-AM1- BR3-024	NH-A275 Study on the Distribution of 3 Second Gust and Damage of Typhoon Kompasu Using the Risk Assessment Prediction Model	Jong-Kil PARK ^{1#+} , Ji-Seon KIM ² , Eun-Byul KIM ¹ , Woo-Sik JUNG ^{1,3} , Jin-Sik PARK ⁴ ¹ <i>Inje University, South Korea</i> , ² <i>SPECORE Inc., South Korea</i> , ³ <i>The Korean Environmental Sciences Society, South Korea</i> , ⁴ <i>Kyungwon University, South Korea</i>

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A / Natural hazards in the megacity

Chair(s): Daniel Schertzer, Dhruva Shrestha

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 A-D2-AM2- BR3-025	NH-A169 Adapting Detailed Flood Modelling to the Asian Region for Re/Insurance Needs	Petr PUNCOCHAR ^{1#} , Brad WEIR ¹ , Himavant MULUGU ² ¹ Aon Benfield, Singapore, ² Aon Benfield - Impact Forecasting, Singapore
2	11:00 A-D2-AM2- BR3-026	NH-A280 Flood Hazard Impact Mapping Using Spatial Information in the Special Capital Region of Jakarta, Indonesia	Sheila Amalia BURHANUDIN ^{1#} , Putra HERIANTO ² ¹ Humanitarian OpenStreetMap Team Indonesia, Indonesia, ² Kasetsart University, Thailand
3	11:15 A-D2-AM2- BR3-027	NH-A107 Heavy Rain and Flash Flood in Great Taipei During Early Summer Monsoon Season	Ben JOU [#] National Taiwan University, Taiwan
4	11:30 A-D2-AM2- BR3-028	NH-A033 The Study of Changing Rainfall Patterns in Beijing and Tianjin, Two Megacities in Northern China	Jeanne Jinhui HUANG [#] , Tingting DUAN Nankai University, China
5	11:45 A-D2-AM2- BR3-029	NH-A320 Characteristics of Xinmo Village Landslide on 24 June 2017 in Sichuan	Yu LEI [#] , Peng CUI, Lijun SU Chinese Academy of Sciences, China
7	12:00 A-D2-AM2- BR3-030	NH-A115 Application of Physically Based Shallow Landslide Susceptibility Models in Typhoon-Prone Areas in the Philippines	Maricar RABONZA ^{1#} , Paul Kenneth LUZON ¹ , Francesca LLANES ² , Raquel FELIX ³ , Kristina Rochelle MONTALBO ⁴ , Iris Jill ORTIZ ⁴ , Carmille ESCAPE ⁴ , Romer Carlo GACUSAN ⁵ , Jan Albert Macario GALANG ² , Alfredo Mahar LAGMAY ² ¹ University of the Philippines, Nationwide Operational Assessment of Hazards, Philippines, ² University of the Philippines Diliman, Philippines, ³ Nanyang Technological University, Singapore, ⁴ University of the Philippines Nationwide Operational Assessment of Hazards (UP-NOAH), Philippines, ⁵ University of the Philippines, Philippines
8	12:03 A-D2-AM2- BR3-031	NH-A250 Integrated Methods for Landslide Assessment in Cisomang Bridge, Cipularang Highway, West Java, Indonesia	Lestari AGUSTININGTYAS [#] , Iskandar ISKANDAR, Imam Catur PRIAMBODO, Kibar M. SURYADANA Center for Volcanology and Geological Hazard Mitigation, Indonesia
10	12:06 A-D2-AM2- BR3-032	NH-A266 Comparison of Causative Factors for Landslide Susceptibility Mapping in Takengon, Central Aceh, Indonesia	Pamela ¹⁺ , Yukni ARIFANTI ^{1#} , Imam SADISUN ² , Rendy KARTIKO ² ¹ Center for Volcanology and Geological Hazard Mitigation, Indonesia, ² Bandung Institute of Technology, Indonesia
11	12:09 A-D2-AM2- BR3-033	NH-A055 Impact of Climate Change on Glaciers and Glacial Runoff in Tajikistan	Yannis FOURNIADIS ^{1#} , Matthew FREE ¹ , Jason MANNING ¹ , Owen BECKETT ¹ , Tobias BOLCH ² , Marc GIRONES LOPEZ ² ¹ Arup, United Kingdom, ² University of Zurich, Switzerland

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Thursday, February 08, 2018 | 08:30 - 10:15 | Ballroom 3

F / Natural hazard communications, warning systems and monitoring programmes

Chair(s): Hong Wang, Eugene Herrera

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 F-D3-AM1-BR3-039	NH-A056 Building Resilience to Weather-Related Hazards Through Better Preparedness	Brian GOLDING ^{1#} , David JOHNSTON ² , Paolo RUTI ³ , Julia KELLER ³ <i>¹ Met Office, United Kingdom, ² Massey University, New Zealand, ³ World Meteorological Organisation, Switzerland</i>
2	09:00 F-D3-AM1-BR3-040	NH-A197 A Framework for the National/Regional Warning System for Rainfall-Induced Landslides: Examples of Implementation in Italy	Mauro ROSSI [#] , Ivan MARCHESINI, Maria Elena MARTINOTTI, Maria Teresa BRUNETTI, Silvia PERUCCACCI, Massimiliano ALVIOLI, Francesca ARDIZZONE, Cinzia BIANCHI, Vincio BALDUCCI, Francesco BUCCI, Mauro CARDINALI, Marco DONNINI, Federica FIORUCCI, Federico FUGNOLI, Massimo MELILLO, Alessandro MONDINI, Paola REICHENBACH, Michele SANTANGELO, Paola SALVATI, Fausto GUZZETTI <i>National Research Council (CNR), Italy</i>
5	09:15 F-D3-AM1-BR3-041	NH-A214 Tsunami-WebGIS - Displaying Tsunami Simulations for Indonesia to a Broader Audience	Antonia IMMERZ ^{1#} , Sven HARIG ¹ , Natalja RAKOWSKY ¹ , Andrey BABEYKO ² , Antonie HAAS ¹ , Gesche KRAUSE ¹ , Joerg MATTHES ¹ , Christian SCHAEFER-NETH ¹ , Angelo STEINBACH ¹ , Andreas WALTER ¹ <i>¹ Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Germany, ² GFZ German Research Centre for Geosciences, Germany</i>
6	09:30 F-D3-AM1-BR3-042	NH-A308 Earth Girl Volcano: A Game of Disaster Preparedness and Response	Isaac KERLOW [#] <i>Nanyang Technological University, Singapore</i>

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A / Natural hazards in the megacity

Chair(s): Yangbo Chen, Ben Jou

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 A-D3-AM2-BR3-034	NH-A208 SATREPS Project, ULAT, for Development of Extreme Weather Monitoring and Alert System in the Philippines	Yukihiro TAKAHASHI ^{1#} , Mitsuteru SATO ¹ , Hisayuki KUBOTA ¹ , Kozo YAMASHITA ² , Jun-Ichi HAMADA ³ , Jun MATSUMOTO ³ , Joel MARCIANO ⁴ , Gay Jane PEREZ ⁵ , Ellison CASTRO ¹ <i>¹ Hokkaido University, Japan, ² Ashikaga Institute of Technology, Japan, ³ Tokyo Metropolitan University, Japan, ⁴ Advanced Science and Technology Institute, Philippines, ⁵ University of the Philippines Diliman, Philippines</i>
2	11:00 A-D3-AM2-BR3-035	NH-A021 Haze Observation and Simulation in Super Urban Agglomeration in Middle-East China	Hong WANG [#] <i>Chinese Academy of Meteorological Sciences, China</i>
3	11:15 A-D3-AM2-BR3-036	NH-A103 Heavy Rainfall in Metro Manila, Philippines During the Summer Monsoon Associated with Tropical Cyclone	Hisayuki KUBOTA ^{1#} , Yukihiro TAKAHASHI ¹ , Mitsuteru SATO ¹ , Jun-Ichi HAMADA ²⁺ <i>¹ Hokkaido University, Japan, ² Tokyo Metropolitan University, Japan</i>
4	11:30 A-D3-AM2-BR3-037	NH-A225 Megacities, New Technologies and Multiscale Resilience: Lessons from the WMO TOMACS and EU Raingain Projects	Daniel SCHERTZER ^{1#} , Ioulia TCHIGUIRINSKAIA ¹ , Igor PAZ ¹ , Masayuki MAKI ² <i>¹ Ecole des Ponts ParisTech, France, ² Kagoshima University, Japan</i>
5	11:45 A-D3-AM2-BR3-038	NH-A316 Hydrodynamic Analysis of the Flood-Detention Function of Laguna Lake, Philippines for Flood Risk Management of Metro Manila	Eugene HERRERA ^{1#} , Ariel BLANCO ² , Rhodora GONZALEZ ² <i>¹ University of the Philippines Diliman, Philippines, ² University of the Philippines, Philippines</i>
6	12:00 A-D3-AM2-BR3-039	NH-A164 Coastal Tectonics and Extreme Wave Events Constrained from Emergent Sea Level Indicators, Washover Deposits, and Numerical Modeling: Examples from the Philippine Archipelago	Noelynna RAMOS ^{1#} , Kathrine MAXWELL ¹ , Hiroyuki TSUTSUMI ² , Chuan-Chou SHEN ³ , Sheinna May CLARO ¹ , Keanu Jershon SARMIENTO ¹ , Daisuke ISHIMURA ⁴ , Kenji SATAKE ⁵ <i>¹ University of the Philippines Diliman, Philippines, ² Doshisha University, Japan, ³ National Taiwan University, Taiwan, ⁴ Tokyo Metropolitan University, Japan, ⁵ The University of Tokyo, Japan</i>

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Tuesday, February 06, 2018 | 08:30 - 10:15 | Ballroom 2

F / Natural hazard communications, warning systems and monitoring programmes

Chair(s): Bruce Malamud, Yoshiyuki Kaneda

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 F-D1-AM1-BR2-001	NH-A324 An International Program on Silk Road Disaster Risk Reduction – A Belt and Road Initiative, 2016-2020	Peng CUI ^{#+} <i>Chinese Academy of Sciences, China</i>
3	09:00 F-D1-AM1-BR2-002	NH-A084 Natural Hazards Education in the University: Diverse Courses for Diverse Students	Kevin P. FURLONG ^{#+} <i>Pennsylvania State University, United States</i>
4	09:15 F-D1-AM1-BR2-003	NH-A025 Construction of Seismogenic Source Databases for Seismic Hazard Analysis: Experiences from Taiwan, with Issues and Challenges	J. Bruce H. SHYU ^{#+} , Yi-Rung CHUANG, Chia-Hsin TSAI <i>National Taiwan University, Taiwan</i>
5	09:30 F-D1-AM1-BR2-004	NH-A048 Lessons Learned from L'Aquila Trial for Scientists' Communication	Kazuki KOKETSU ^{1#+} , Andrea CERASE ² , Alessandro AMATO ³ , Satoko OKI ⁴ <i>¹ The University of Tokyo, Japan, ² Universita la Sapienza di Roma, Italy, ³ Istituto Nazionale di Geofisica e Vulcanologia, Italy, ⁴ Keio University, Japan</i>
6	09:45 F-D1-AM1-BR2-005	NH-A245 Communicating Yolanda's Story: Typhoons and Storm Surges	Isaac KERLOW ^{#+} , Janeli Lea SORIA <i>Nanyang Technological University, Singapore</i>
7	09:48 F-D1-AM1-BR2-006	NH-A299 Volcano Risk Communication Through Mutual Understanding and Local Wisdom: lesson Learned from Merapi and Kelud Communities, Indonesia	Supriyati ANDREASTUTI ^{#+} <i>Center for Volcanology and Geological Hazard Mitigation, Indonesia</i>
8	09:51 F-D1-AM1-BR2-007	NH-A121 Development of Historical Storm Surge Events Database for Better Understanding of Coastal Disaster Management in the Philippines	Joy SANTIAGO ^{1#+} , Alfredo Mahar LAGMAY ² , Jerico MENDOZA ¹ <i>¹ University of the Philippines Resilience Institute and Nationwide Operational Assessment of Hazards Center, Philippines, ² University of the Philippines Diliman, Philippines</i>
9	09:54 F-D1-AM1-BR2-008	NH-A124 Identification of Evacuation Routes in Passi City Using Geographic Information System (GIS)	Joy SANTIAGO ^{1#} , Jerico MENDOZA ¹⁺ , Alfredo Mahar LAGMAY ² <i>¹ University of the Philippines Resilience Institute and Nationwide Operational Assessment of Hazards Center, Philippines, ² University of the Philippines Diliman, Philippines</i>

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S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 F-D1-AM2- BR2-009	NH-A022 Challenges for Operational Forecasting and Early Warning of Rainfall Induced Landslides	Fausto GUZZETTI ^{#+} <i>National Research Council (CNR), Italy</i>
2	11:15 F-D1-AM2- BR2-010	NH-A181 Comparison of Modeling Approaches and Derived Warning Products in the Framework of the Indonesia Tsunami Early Warning System (InaTEWS)	Sven HARIG ^{1#+} , Andrey BABEYKO ² , Antonia IMMERZ ¹ , Natalja RAKOWSKY ¹ , Tri HANDAYANI ³ <i>¹ Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Germany, ² GFZ German Research Centre for Geosciences, Germany, ³ Agency for Meteorology, Climatology and Geophysics (BMKG), Indonesia</i>
3	11:30 F-D1-AM2- BR2-011	NH-A016 Advanced Observation and Simulation Researches Using Real Time Monitoring Data and Human Resource Cultivation	Yoshiyuki KANEDA ^{1,2#+} , Chikako ISOUCHI ¹ , Kazuhito FUJISAWA ¹ , Takuji SANGAWA ¹ , Narumi TAKAHASHI ³ , Takane HORI ² <i>¹ Kagawa University, Japan, ² Japan Agency for Marine-Earth Science and Technology, Japan, ³ National Research Institute for Earth Science and Disaster Prevention, Japan</i>
4	11:45 F-D1-AM2- BR2-012	NH-A010 A Cost-Benefit Perspective on Asian Volcano Warnings	Gordon WOO ^{#+} <i>Risk Management Solutions, United Kingdom</i>
5	12:00 F-D1-AM2- BR2-013	NH-A125 Ash in the Air! When? Where? and How to Travel Safely in South East Asia	Benoit TAISNE ^{1#+} , Anna PERTTU ¹ , Patrick WHELLEY ² , Wei Ming CHONG ³ <i>¹ Nanyang Technological University, Singapore, ² NASA Goddard Space Flight Center, United States, ³ National Environmental Agency, Singapore</i>
6	12:15 F-D1-AM2- BR2-014	NH-A042 Application of Time Series Models for Flood Forecasting: A Case Study in Dawulun River	Yong-Jun LIN ¹ , Hao-Yu LIAO ^{1#+} , Hsiang-Kuan CHANG ¹ , Huei-Tau OUYANG ² , Jihn Sung LAI ¹ , Ben JOU ¹ , Yih-Chi TAN ¹ <i>¹ National Taiwan University, Taiwan, ² National Ilan University, Taiwan</i>
7	12:18 F-D1-AM2- BR2-015	NH-A148 Participatory Design of Community-Based Early Warning System Framework for Deep-Seated Landslides in the Philippines	Brian Anthony GUMIRAN ^{#+} , Fatima MONCADA, Harianne GASMEN, Nathalie Ross BOYLES, Renato SOLIDUM <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
8	12:21 F-D1-AM2- BR2-016	NH-A283 The Importance of Community-Based Landslide and Flash Flood Mitigation in Indonesia	Imam SANTOSA ^{#+} <i>Center for Volcanology and Geological Hazard Mitigation, Indonesia</i>
9	12:24 F-D1-AM2- BR2-017	NH-A152 Wireless Sensor Network Complements Telemetered Landslide Early Warning System in Sites with Poor GSM Connectivity	Earl Anthony MENDOZA ^{#+} <i>Philippine Institute of Volcanology and Seismology, Philippines</i>

Wednesday, February 07, 2018 | 08:30 - 10:15 | Ballroom 2

F / Natural hazard communications, warning systems and monitoring programmes

Chair(s): Stefano Salvi, Ian Robert Abiera

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 F-D2-AM1-BR2-018	NH-A019 Strengthening Disaster Risk Reduction Across Asia – Perspectives from Space	David GREEN ^{#+} <i>National Aeronautics and Space Administration (NASA), United States</i>
3	09:00 F-D2-AM1-BR2-019	NH-A090 High Resolution, Physically-Based Global Flood Hazard Map	Lorenzo BEGNUDELLI ^{#+} , Yasir KAHEIL, Jeff MCCOLLUM <i>FM Global, United States</i>
4	09:15 F-D2-AM1-BR2-020	NH-A290 Mapping of Flood Frequency Using Landsat Data for Emergency Relief Planning and Prioritization in Myanmar	Kittiphong PHONGSAPAN ¹ , Farrukh CHISHTIE ¹⁺ , Thiri MAUNG ² , Peeranan TOWASHIRAPORN ^{1#} <i>¹ Asian Disaster Preparedness Center, Thailand, ² Relief and Resettlement Department, Myanmar</i>
5	09:30 F-D2-AM1-BR2-021	NH-A147 Projecting and Communicating Future Tropical Cyclone Risks to Inform Resilience Building in the Philippines	Joseph DARON ^{1#+} , Ian MACADAM ¹ , Florian GALLO ¹ , Erasmo BUONOMO ¹ , David CORBELLI ¹ , David HEIN ¹ , Richard JONES ¹ , Thelma CINCO ² , Marcelino VILLAFUERTE II ² , Emme ARES ² <i>¹ Met Office, United Kingdom, ² Philippine Atmospheric, Geophysical and Astronomical Services Administration, Philippines</i>
6	09:33 F-D2-AM1-BR2-022	NH-A183 Detection of Rainfall Potential Areas from Himawari-8 Images Using Supervised Machine Learning Techniques	Gay Jane PEREZ ^{#+} , Gerry BAGTASA, Redmund NACARIO <i>University of the Philippines Diliman, Philippines</i>
8	09:36 F-D2-AM1-BR2-023	NH-A230 Mapping of Rainfall-Induced Landslides and Flash Floods Areas in Arunachal Pradesh, India Using Satellite Data and Geographic Information System (GIS)	Swapna ACHARJEE ^{#+} <i>State Remote Sensing Application Centre, India</i>
9	09:39 F-D2-AM1-BR2-024	NH-A089 Intergrating Remote Sensing and Field Data for Landslide Hazard Susceptibility Investigation and Zonation in Purwoharjo Area, Kulon Progo, Indonesia	Trias GALENA [#] , Serafim Ekklesia SENDUK ⁺ , MGS.Dwiki NUGRAHA, Faisal SANGAJI <i>Institute of Science and Technology AKPRIND, Indonesia</i>
10	09:42 F-D2-AM1-BR2-025	NH-A099 Developing a Scenario-Based Assessment of Hazards Platform for the Philippines Using Open Source Software and Open Data	Bernard Alan RACOMA ^{1#+} , Dinnah Feye ANDAL ² , Dianne Charmaine BENCITO ² , Ken Adrian ARACAN ¹ , Irene PICACHE ¹ , Jobyn MARMOL ¹ , Alfredo Mahar LAGMAY ³ <i>¹ University of the Philippines Nationwide Operational Assessment of Hazards (UP-NOAH), Philippines, ² University of the Philippines, Philippines, ³ University of the Philippines Diliman, Philippines</i>
11	09:45 F-D2-AM1-BR2-026	NH-A143 Approaches to Enhancement of Liquefaction Hazard Maps of the Philippines	Daniel Jose BUHAY ^{#+} , Maria Isabel ABIGANIA, Mickho Jheyshel REYES, Robelyn MANGAHAS, Bryan MARFITO, Kathleen PAPIONA, Kimberley VITTO, Margarita DIZON, Deo Carlo LLAMAS, Renato SOLIDUM <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
12	09:48 F-D2-AM1-BR2-027	NH-A157 Geologic Impacts of the 10 February 2017 Magnitude 6.7 Surigao Del Norte Earthquake, Mindanao, Philippines	Maria Isabel ABIGANIA ^{#+} , Kathleen PAPIONA, Jeffrey PEREZ, Melcario PAGTALUNAN, Daniel Jose BUHAY, Deo Carlo LLAMAS, Robelyn MANGAHAS, Bryan MARFITO, Cathy POGAY, Daphne AGONIA, Evelyn SERENADO, Dynie DOLOIRAS, Melissa TAMAYO, Nemesio CANETE, Robinson JORGIO, Tom Carlo SIMBORIO, Jay Flenson GALLARDO, Renato SOLIDUM <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
13	09:51 F-D2-AM1-BR2-028	NH-A150 The PHIVOLCS Geoportal as Tool for Tracking National Efforts on Earthquake and Volcanic Hazards Mapping	Jayvie NADUA ^{#+} , Analyn AQUINO, Kervin MACARANAS, Abigail PIDLAOAN, Enrico SANTOS, Mabelline CAHULOGAN, Renato SOLIDUM <i>Philippine Institute of Volcanology and Seismology, Philippines</i>

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Wednesday, February 07, 2018 | 10:45 - 12:30 | Ballroom 2

F / Natural hazard communications, warning systems and monitoring programmes

Chair(s): Joseph Daron, Gay Jane Perez

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 F-D2-AM2- BR2-029	NH-A026 Ecosystems for Disaster Risk Reduction - What Does Science Tell Us?	Karen SUDMEIER-RIEUX ^{1,2#} ¹ UN Environment, Switzerland, ² University of Lausanne, Switzerland
2	11:15 F-D2-AM2- BR2-030	NH-A285 Development of a Composite Disaster Risk Management (DRM) Planning Template for Up Diliman	Ian Robert ABIERA [#] University of the Philippines, Philippines
3	11:30 F-D2-AM2- BR2-031	NH-A059 The GEO Geohazard Supersites Initiative: An Opportunity for Scientific Communities	Stefano SALVI [#] Istituto Nazionale di Geofisica e Vulcanologia, Italy
4	11:45 F-D2-AM2- BR2-032	NH-A293 Improving Agricultural Resilience to Drought in Ninh Thuan Province of Vietnam	Farrukh CHISHTIE ^{1#} , Susantha JAYASINGHE ² , Senaka BASNAYAKE ² , Kel MARKET ³ , Eric ANDERSON ³ , David SAAH ⁴ , Peeranan TOWASHIRAPORN ¹ ¹ Asian Disaster Preparedness Center, Thailand, ² Asian Disaster Preparedness Center, Thailand, ³ University of Alabama in Huntsville, United States, ⁴ University of San Francisco, United States
8	12:00 F-D2-AM2- BR2-033	NH-A196 Capacitating Philippine Communities on Hazard Impact Estimation	Maria Leonila BAUTISTA [#] , Bartolome BAUTISTA, Ishmael NARAG, Renato SOLIDUM Philippine Institute of Volcanology and Seismology, Philippines
9	12:03 F-D2-AM2- BR2-034	NH-A191 Enhancing Hydrological Hazards Assessment and Response Capabilities of Local Government Units in Selected Philippine Cities Through Systematic Risk Assessment and Geographic Information System Technical Capacity Building	Malvin Kenneth MANUELI ^{1#} , Jeffrey BOLIMA ² , Jose Miguel PARAS ³ , Imelda ABARQUEZ ⁴ , Adorable JACINTO ¹ , Demosthenes REDOBLE ⁴ , Michael RIVERA ² , Nino Lawrence VILLANUEVA ² , Bebet GOZUN ⁴ ¹ Ecosystems Technologies International, Inc., Philippines, ² Woodfields Consultants, Inc., Philippines, ³ Department of Energy, Philippines, ⁴ AECOM International Development, Philippines
10	12:06 F-D2-AM2- BR2-035	NH-A292 Improving Flood Forecasting and Early Warning in the Lower Mekong Using Satellite-Based Land Use and Precipitation Information	Farrukh CHISHTIE ^{1#} , Susantha JAYASINGHE ² , Chinaporn MEECHAIYA ² , Senaka BASNAYAKE ² , Nguyen QUYEN ¹ , Kel MARKET ³ , Eric ANDERSON ³ , David SAAH ⁴ , Peeranan TOWASHIRAPORN ¹ ¹ Asian Disaster Preparedness Center, Thailand, ² Asian Disaster Preparedness Center, Thailand, ³ University of Alabama in Huntsville, United States, ⁴ University of San Francisco, United States
13	12:09 F-D2-AM2- BR2-036	NH-A133 Vulnerability and Risk Assessments for Flood Hazard: Case Study of Dibrugarh Town, India	Jenita Mary NONGKYNRIH ^{1#} , Ngangbam Romeji SINGH ² , Victor SAIKHOM ¹ , Ranjit DAS ¹ , Kamini Kanta SARMA ¹ , Penumetcha Lakshmi Narasa RAJU ¹ ¹ North Eastern Space Applications Centre, India, ² National Institute of Technology Manipur, India
14	12:12 F-D2-AM2- BR2-037	NH-A081 GIS Strategies for Efficient Hazards Assessment, R&D and Decision-Making	Mabelline CAHULOGAN [#] , Jayvie NADUA ⁺ , Anlyn AQUINO, Abigail PIDLAOAN, Arturo DAAG, Ma. Antonia BORNAS, Renato SOLIDUM Philippine Institute of Volcanology and Seismology, Philippines
15	12:15 F-D2-AM2- BR2-038	NH-A311 Drought Hazard Mitigation in Granite-Dominated Area in Belitung Island, Indonesia	Putra HERIANTO ^{1#} , Warakorn MAIRAING ¹ , Sheila Amalia BURHANUDIN ² ¹ Kasetsart University, Thailand, ² Humanitarian OpenStreetMap Team Indonesia, Indonesia

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Thursday, February 08, 2018 | 08:30 - 10:15 | Ballroom 2

C / Hazard development under a changing climate

Chair(s): Yannis Fourniadis, Lea Dasallas

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 C-D3-AM1-BR2-007	NH-A130 Improving Tropical Cyclone Rainfall Forecasts in Philippines Area Through the Application of a High Resolution Numerical Weather Prediction Model TWRF	Tien-Chiang YEH ^{1#} , Esperanza O. CAYANAN ² , Der Song CHEN ¹ , Ling-Fenf HSIAO ³ ¹ Central Weather Bureau, Taiwan, ² Philippine Atmospheric, Geophysical and Astronomical Services Administration, Philippines, ³ Taiwan Typhoon Flood Research Institute, Taiwan
2	09:00 C-D3-AM1-BR2-008	NH-A151 Providing Future Climate Projections for the Philippines Using Multiple Models and Methods	Joseph DARON ^{1#} , Ian MACADAM ¹ , Claire SCANNELL ¹ , Richard JONES ¹ , Hideki KANAMARU ² , Thelma CINCO ³ , Jack KATZFEY ⁴ , Marcelino VILLAFUERTE II ³ , Faye Abigail CRUZ ⁵ , Rafaela Jane DELFINO ⁶ , Rodel LASCO ⁶ , Gemma NARISMA ⁵ , Emme ARES ³ , Analiza SOLIS ³ , Rosalina DE GUZMAN ³ , John MANALO ³ , Joseph BASCONCILLO ³ , Fredolin T. TANGANG ^{7,8} ¹ Met Office, United Kingdom, ² Food and Agriculture Organization of the United Nations, Italy, ³ Philippine Atmospheric, Geophysical and Astronomical Services Administration, Philippines, ⁴ Commonwealth Scientific and Industrial Research Organisation, Australia, ⁵ Manila Observatory, Philippines, ⁶ Oscar M Lopez Center, Philippines, ⁷ National University of Malaysia, Malaysia, ⁸ Ramkhamhaeng University, Thailand
3	09:15 C-D3-AM1-BR2-009	NH-A141 Development of Multi-Scenario High-Resolution Climate Change-Adjusted Flood Hazard Maps for Selected Municipalities in the Philippines	Patricia Anne DELMENDO ^{1#} , Alfredo Mahar LAGMAY ² , Jerico MENDOZA ³ , John Paul ABAD ¹ , Joshua ABAYGAR ¹ , Max Henry AFICIAL ¹ , Russel James ANDRADE ¹ , Camille BALLESTEROS ¹ , Girlie DAVID ¹ , Keith Paolo LANDICHO ¹ , Herbert James TANIZA ¹⁺ ¹ The University of the Philippines Nationwide Operational Assessment of Hazards (UP-NOAH), Philippines, ² University of the Philippines Diliman, Philippines, ³ University of the Philippines Resilience Institute and Nationwide Operational Assessment of Hazards Center, Philippines
4	09:30 C-D3-AM1-BR2-010	NH-A251 A New Gridded High-Resolution Observational Data Set for Southeast Asia	Else VAN DEN BESELAAR ¹ , Gerard VAN DER SCHRIER ^{1#} , Richard CORNES ¹ , Aris SUWONDO ² , Iqbal ² , Albert KLEIN TANK ¹ , Vasily KOKOREV ³⁺ ¹ Royal Netherlands Meteorological Institute (KNMI), Netherlands, ² Badan Meteorologi Klimatologi dan Geofisika (BMKG), Indonesia, ³ University of Twente, Netherlands
6	09:45 C-D3-AM1-BR2-011	NH-A165 The Transformation of the Typhoon in the Polar Front Cyclone and the Catastrophic Flooding in Primorsky Krai	Natalia SOKOLIKHINA ^{#+} , Elena SOKOLIKHINA, Eugene PETROV, Eugene SEMENOV <i>Moscow State University, Russian Federation</i>
8	09:48 C-D3-AM1-BR2-012	NH-A034 Extreme Wind Speeds Over Asian Arctic Under Changing Climate	Galina SURKOVA ^{#+} <i>Lomonosov Moscow State University, Russian Federation</i>
9	09:51 C-D3-AM1-BR2-013	NH-A212 3-D Cloud Monitoring by the Microsatellites in SATREPS Project, ULAT	Yukihiro TAKAHASHI ^{1#} , Ellison CASTRO ¹ , Tetsuro ISHIDA ¹ , Mitsuteru SATO ¹ , Yuji SAKAMOTO ² , Gay Jane PEREZ ³ , Joel MARCIANO ⁴ , Hisayuki KUBOTA ¹ ¹ Hokkaido University, Japan, ² Tohoku University, Japan, ³ University of the Philippines Diliman, Philippines, ⁴ Advanced Science and Technology Institute, Philippines
11	09:54 C-D3-AM1-BR2-014	NH-A194 Combined Influences of PDO, ENSO, and QBO on Tropical Cyclone Activity in the Western North Pacific	John Ariel ROJAS ¹⁺ , Gerry BAGTASA ² , Ronald MACATANGAY ^{3#} , Mylene CAYETANO ² , Esperanza O. CAYANAN ¹ , Leoncio AMADORE ² ¹ Philippine Atmospheric, Geophysical and Astronomical Services Administration, Philippines, ² University of the Philippines Diliman, Philippines, ³ National Astronomical Research Institute of Thailand, Thailand
13	09:57 C-D3-AM1-BR2-015	NH-A321 Assessing Past and Future Impacts of Tropical Cyclones on Rice Production in Vietnam	Jiaqi YUEN ^{1#} , Janice Ser Huay LEE ¹ , Adam SWITZER ² , Paul TENG ³ ¹ Earth Observatory of Singapore, Singapore, ² Nanyang Technological University, Singapore, ³ National Institute of Education, Singapore

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Thursday, February 08, 2018 | 10:45 - 12:30 | Ballroom 2

C / Hazard development under a changing climate

Chair(s): Janneli Lea Soria, Jiaqi Yuen

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 C-D3-AM2-BR2-016	NH-A013 A Severe Southwest China Drought Associated with Asia Monsoon Anomaly and Global Warming	Xingang DAI ^{1#} , Ping WANG ² <i>¹ Chinese Academy of Sciences, China, ² Chinese Academy of Meteorological Sciences, China</i>
2	11:00 C-D3-AM2-BR2-017	NH-A020 Multilevel Drought Hazard Assessment Under Climate Change Scenarios in Semi-Arid Regions - A Case Study of the Karkheh River Basin in Iran	Hong YANG [#] , Bahareh KAMALI <i>Swiss Federal Institute of Aquatic Science and Technology, Switzerland</i>
3	11:15 C-D3-AM2-BR2-018	NH-A257 The CALIPSO Lidar - A Powerful Remote Sensing Tool to Provide Vertical Structures of Aerosols and Optically Thin Clouds	Zhaoyan LIU ^{1#} , Mark VAUGHAN ¹ , Jayanta KAR ² , Jason TACKETT ² , Shan ZENG ² , Kam-Pui LEE ² , Brian GETZEWICH ² , Brian MCGILL ² , Ali OMAR ¹ , Yongxiang HU ¹ , Patricia LUCKER ² , Charles TREPTE ¹ , David WINKER ¹ , Bing LIN ¹ <i>¹ NASA Langley Research Center, United States, ² Science Systems and Applications, Inc. (SSAI), United States</i>
4	11:30 C-D3-AM2-BR2-019	NH-A098 Investigating the Past, Present, and Future of Flood Hazards in a Quarried Watershed Using 2D Flood Modelling	Richard YBAÑEZ [#] , Carlo ARCILLA <i>University of the Philippines Diliman, Philippines</i>
5	11:45 C-D3-AM2-BR2-020	NH-A118 Quantitative Probabilistic Risk Assessment Using Climate Change Adjusted Hazard Maps for the Municipality of Zarraga, Iloilo	Joy SANTIAGO ^{1#} , Alfredo Mahar LAGMAY ² , Jerico MENDOZA ¹ , Jose Victor PUNO ² , Jolly SULAPAS ² , Julius OBRIQUE ² , Samantha CINCO ²⁺ <i>¹ University of the Philippines Resilience Institute and Nationwide Operational Assessment of Hazards Center, Philippines, ² University of the Philippines Diliman, Philippines</i>
6	12:00 C-D3-AM2-BR2-021	NH-A093 The Kara Sea Surges Modeling for Period 1979-2015	Victor ARKHIPKIN [#] , Anastasia KORABLINA, Stanislav MYSLENKOV <i>Lomonosov Moscow State University, Russian Federation</i>
9	12:03 C-D3-AM2-BR2-022	NH-A136 Drought and Flood for the Past 1000 Years in Guanzhong Plain, China	Zhixin HAO [#] , Xiu GENG, Jingyun ZHENG <i>Chinese Academy of Sciences, China</i>
10	12:06 C-D3-AM2-BR2-023	NH-A110 Teleconnection of South-Flood and North-Drought Over Eastern China with El Niño Derived from Past 500-Yr Reconstruction and Simulation	Jingyun ZHENG [#] , Zhixin HAO, Di SUN, Maowei WU <i>Chinese Academy of Sciences, China</i>
13	12:09 C-D3-AM2-BR2-024	NH-A083 Bayesian Precipitation Regime Shift Detection in South-East Asia	Vasily KOKOREV ^{1#} , Peter SIEGMUND ² , Janneke ETTEMA ¹ <i>¹ University of Twente, Netherlands, ² Royal Netherlands Meteorological Institute, Netherlands</i>
14	12:12 C-D3-AM2-BR2-025	NH-A062 A Diagnostic Method for Aircraft Turbulence Based on High-Resolution Numerical Weather Prediction Products	Xiaokang SHI ^{1#} , Jianwen LIU ^{2,3} , Yaodong LI ¹ <i>¹ Institute of Aviation Meteorology, China, ² Beijing Aviation Meteorological Institute, China, ³, China</i>

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Tuesday, February 06, 2018 | 08:30 - 10:15 | Ballroom 1

G / Single Hazard Case Studies

Chair(s): James Moore, Dawei Wang

S/N	Presentation ID	Abstract ID / Title	Authors
2	08:30 G-D1-AM1- BR1-002	NH-A079 Examination the Seismic Swarms in the Northern Manila Trench Based on Seismic Array Observations	Bor-Shouh HUANG ⁺ <i>Academia Sinica, Taiwan</i>
3	08:45 G-D1-AM1- BR1-003	NH-A294 Slip Rate and Paleoseismology of the Central Red River Fault, Southwestern China	Xuhua SHI ^{1#} , Kerry SIEH ¹ , Ray WELDON ² ¹ <i>Nanyang Technological University, Singapore</i> , ² <i>University of Oregon, United States</i>
4	09:00 G-D1-AM1- BR1-004	NH-A227 Coseismic Displacements and Source Modeling of 10 February 2017 M6.7 Philippine Fault (Surigao Segment) Earthquake	Teresito BACOLCOL ^{1#} , Genesis SAPLA ¹ , Alfie PELICANO ¹ , Bryan MARFITO ¹ , Marion PARAS ¹ , Zachary RAGADIO ¹ , Oriel Vinci ABSIN ¹ , Alberto BALOTO ¹ , Wayne LIU ² , Kuo-En CHING ² ¹ <i>Philippine Institute of Volcanology and Seismology, Philippines</i> , ² <i>National Cheng Kung University, Taiwan</i>
5	09:15 G-D1-AM1- BR1-005	NH-A160 Coulomb Stress Transfer and Tectonic Loading in Central Philippines: Relationship of the Recent Earthquakes from 2012 to 2017	Robelyn MANGAHAS ⁺ , Bryan MARFITO, Winchelle SEVILLA, Deo Carlo LLAMAS, Teresito BACOLCOL, Jeffrey PEREZ, Jun BONITA, Genesis SAPLA, Alfie PELICANO, Marion PARAS, Zachary RAGADIO, Oriel Vinci ABSIN <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
6	09:30 G-D1-AM1- BR1-006	NH-A286 Sensitivity of Ground Shaking in West Java, Indonesia, Driven by Multifault Rupture Event	Amalfi OMANG ⁺ <i>Center for Volcanology and Geological Hazard Mitigation, Indonesia</i>
7	09:33 G-D1-AM1- BR1-007	NH-A074 Projecting Potential Areas of Increased Seismic Risk Along the Leyte Segment of the Philippine Fault After the 06 July 2017 Ms 6.5 Kananga Earthquake Using Coulomb Stress Transfer Analysis	John Agustin ESCUDERO ⁺ , Mario AURELIO <i>University of the Philippines Diliman, Philippines</i>
11	09:36 G-D1-AM1- BR1-009	NH-A101 Characterization of Shallow Geometry of the Inabanga Fault by Seismic Reflection Investigation	Romer Carlo GACUSAN ^{1#} , Alfredo Mahar LAGMAY ² ¹ <i>University of the Philippines, Philippines</i> , ² <i>University of the Philippines Diliman, Philippines</i>
12	09:39 G-D1-AM1- BR1-010	NH-A247 Strain Rates Estimation from Seismic and Geodetic Data at Nusa Tenggara and Banda Regions, Indonesia	Rahayu ROBIANA ^{1#} , Irwan MEILANO ² , Andri Dian NUGRAHA ² , Sri HIDAYATI ¹ ¹ <i>Geological Agency of Indonesia, Indonesia</i> , ² <i>Bandung Institute of Technology, Indonesia</i>
13	09:42 G-D1-AM1- BR1-011	NH-A269 Morphotectonic Analysis of the North Bohol Fault in Bohol, Philippines Using High-Resolution Topographic Models and Field Analysis	Raquel FELIX ^{1#} , Alfredo Mahar LAGMAY ² , Gianluca NORINI ³ ¹ <i>Nanyang Technological University, Singapore</i> , ² <i>University of the Philippines Diliman, Philippines</i> , ³ <i>National Research Council (CNR), Italy</i>
14	09:45 G-D1-AM1- BR1-012	NH-A188 Towards Probabilistic Forecasting of Natural Hazards: Expandable System for Detecting Ionospheric Disturbances Caused by Natural Hazards	Viktor FEDUN ^{1#} , Alexander ROZHNOI ² , Sergiy SHELYAG ³ , Maria SOLOVIEVA ² , Abhishek SRIVASTAVA ⁴ , Sergey RUZHEINIKOV ¹ , Anatoly RYBIN ⁵ ¹ <i>The University of Sheffield, United Kingdom</i> , ² <i>Russian Academy of Sciences, Russian Federation</i> , ³ <i>University of Northumbria, United Kingdom</i> , ⁴ <i>Aryabhata Research Institute of Observational Sciences, India</i> , ⁵ <i>Research Station of the Russian Academy of Sciences in Bishkek, Russian Federation</i>
15	09:48 G-D1-AM1- BR1-013	NH-A288 Lithostratigraphy of Fluvial Sediments Above the Main Frontal Thrust: Preliminary Results from Observations of Drill Cores Recovered from Bardibas, Nepal	Mari HAMAHASHI ^{1#} , Judith HUBBARD ¹ , Rafael ALMEIDA ¹ , Lee LIBERTY ² , Soma Nath SAPKOTA ³ , Lewis OWEN ⁴ , Edgardo LATRUBESSE ¹ ¹ <i>Nanyang Technological University, Singapore</i> , ² <i>Boise State University, United States</i> , ³ <i>Department of Mines and Geology, Nepal</i> , ⁴ <i>University of Cincinnati, United States</i>

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Tuesday, February 06, 2018 | 10:45 - 12:30 | Ballroom 1

G / Single Hazard Case Studies

Chair(s): Jung Mo Lee, Katrine Maxwell

S/N	Presentation ID	Abstract ID / Title	Authors
2	10:45 G-D1-AM2- BR1-014	NH-A207 Imaging the Fossil Ridge Subduction Beneath Luzon Island from Passive-Source OBS Data	Ting YANG ^{1#} , Mohan PAN ² ¹ Southern University of Science and Technology, China, ² Tongji University, China
3	11:00 G-D1-AM2- BR1-015	NH-A248 Submarine Landslide Evidence for Late Miocene Strike-Slip Reversal of the Red River Fault	Dawei WANG ^{1#} , Shiguo WU ¹ , Chunfeng LI ² , Weiwei WANG ³ ¹ Chinese Academy of Sciences, China, ² Zhejiang University, China, ³ China University of Petroleum, China
4	11:15 G-D1-AM2- BR1-016	NH-A274 Submarine Landslide on the Western Slope of the Okinawa Trough	Qi LI [#] China University of Geosciences, China
5	11:30 G-D1-AM2- BR1-017	NH-A168 Sedimentological Comparison of Recent Storm and Tsunami Deposits from the South-Eastern Coastline of India	Christos GOURAMANIS ^{1#} , Adam SWITZER ² , Srinivasalu SESHACHALAM ³ , Anandasabari KARTHIKEYAN ⁴ , Dat PHAM ⁵ , Stephen CARSON ⁶ , Jessica PILARCZYK ⁷ , Hussain SHAIK ⁸ , Brian JONES ⁹ , Wenshu YAP ² ¹ National University of Singapore, Singapore, ² Nanyang Technological University, Singapore, ³ Anna University Chennai, India, ⁴ Jawaharlal Nehru Centre for Advance Scientific Research, India, ⁵ Viet Nam Institute of Meteorology, Hydrology and Climate Change, Viet Nam, ⁶ WSP, United Kingdom, ⁷ University of Southern Mississippi, United States, ⁸ University of Madras, India, ⁹ University of Wollongong, Australia
6	11:45 G-D1-AM2- BR1-018	NH-A132 How to Increase the Strength of Your Roof Against Volcanic Projectiles: Insights from Ballistic Cannon Experiments	George WILLIAMS ^{1#} , Colin FREWEN ² , Sterling MORGAN ² , Ben KENNEDY ² , Thomas WILSON ² , Allan SCOTT ² , David LALLEMANT ¹ , Susanna JENKINS ¹ ¹ Nanyang Technological University, Singapore, ² University of Canterbury, New Zealand
7	11:48 G-D1-AM2- BR1-019	NH-A182 Establishing SO ₂ Flux Baseline at Kanlaon Volcano Using Ultraviolet Correlation Spectrometer (FLYSPEC-V3)	Maria Concepcion BARAIRO [#] , Raul Ryan REBADULLA, Eric Lino ARCONADO, Mari-Andylene QUINTIA, Mariton BORNAS, Renato SOLIDUM Philippine Institute of Volcanology and Seismology, Philippines
8	11:51 G-D1-AM2- BR1-020	NH-A242 Lahar Flow Simulation Using Laharz_py Program: Application for the Mt. Halla Volcano, Jeju, Korea	Sung-Hyo YUN ^{1,2#} , Cheolwoo CHANG ¹ , Waon-Ho YI ³ ¹ Pusan National University, South Korea, ² Korean Society of Volcanic Hazard Mitigation, South Korea, ³ Kwangwoon University, South Korea
9	11:54 G-D1-AM2- BR1-021	NH-A186 Deposits from the 2004 Indian Ocean Tsunami in Three Coastal Ponds in Khao Lak, Thailand	Evelien BOES ^{1#} , Stijn ALBERS ¹ , Kruawun JANKAEW ² , Vanessa M.A. HEYVAERT ³ , Ed GARRETT ⁴ , Marc DE BATIST ¹ ¹ Ghent University, Belgium, ² Chulalongkorn University, Thailand, ³ Geological Survey of Belgium, Belgium, ⁴ Durham University, United Kingdom
10	11:57 G-D1-AM2- BR1-022	NH-A287 Application of Drone-Based-Photogrammetry for Tsunami Modeling (Case Study: Purworejo Regency, Jawa Tengah)	Haunan AFIF ^{1#} , Pandu ADI MINARNO ¹ , Rikki WEBER ² , Akhmad SOLIKHIN ¹ ¹ Geological Agency of Indonesia, Indonesia, ² Geoscience Australia, Australia
11	12:00 G-D1-AM2- BR1-023	NH-A037 A 17th-Century Tsunami Disaster Related to the Subduction of the Pacific Plate: Sedimentary Evidence from the Pacific Coast, Hokkaido, Northern Japan	Ryo NAKANISHI [#] , Satoshi OKAMURA Hokkaido Education University, Japan
13	12:03 G-D1-AM2- BR1-024	NH-A006 Upper Ocean Dynamics and Biogeochemical Changes in the Bay of Bengal Associated with the Tropical Cyclone Madi	Riyanka ROY CHOWDHURY ^{1#} , Prasanna Kumar S ^{2#} , Arun CHAKRABORTY ¹ ¹ Indian Institute of Technology Kharagpur, India, ² National Institute of Oceanography, India

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Wednesday, February 07, 2018 | 08:30 - 10:15 | Ballroom 1

D / Multi-hazard interactions (cascades)

Chair(s): Peng Cui, Jennifer Weil-Accardo

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 D-D2-AM1- BR1-001	NH-A018 Roads, Landslides and the Potential Environmental Consequences of China's "New Silk Road" in Nepal	Brian G. MCADOO ^{#+} , Michelle QUAK <i>Yale-NUS College, Singapore</i>
2	09:00 D-D2-AM1- BR1-002	NH-A111 The December 2015 Debris Flows Triggered by Typhoon Melor in Baco, Oriental Mindoro, Philippines	Francesca LLANES ^{1#+} , Kelvin RODOLFO ² , Carmille ESCAPE ³ , Raquel FELIX ⁴ , Iris Jill ORTIZ ³ <i>¹ University of the Philippines Diliman, Philippines, ² University of Illinois at Chicago, United States, ³ University of the Philippines Nationwide Operational Assessment of Hazards (UP-NOAH), Philippines, ⁴ Nanyang Technological University, Singapore</i>
3	09:15 D-D2-AM1- BR1-003	NH-A200 Cascades of Sediment-Related Hazards Following Seismic Events. Evidence from South-West China	David HIGGITT ^{#+} <i>Beijing Jiaotong University, China</i>
4	09:30 D-D2-AM1- BR1-004	NH-A028 Landslide Hazards Associated with the Urban Development in Muttrah District, Muscat Province, Oman: A Case Study	Talal AL HOSNI ^{#+} <i>Sultan Qaboos University, Oman</i>
5	09:45 D-D2-AM1- BR1-005	NH-A128 A Simple, Analytical Prediction for Earthquake Induced Landsliding at Landscape Scale	Odin MARC ¹⁺ , Niels HOVIUS ^{2,3+} , Patrick MEUNIER ⁴ <i>¹ University of Strasbourg, France, ² GFZ German Research Centre for Geosciences, Germany, ³ University of Potsdam, Germany, ⁴ ENS Paris, France</i>
7	09:48 D-D2-AM1- BR1-006	NH-A053 The Study of Affecting Factors for Dual Hazards of Landslide and Flood (Special Reference to Athwelthota Landslide and Flood Hazard in Sri Lanka)	Sumanajith KUMARA ^{#+} <i>University of Sri Jayewardenepura, Sri Lanka</i>
8	09:51 D-D2-AM1- BR1-007	NH-A137 Assessment of Earthquake-Induced Landslides from the 7.2m October 15, 2013 Bohol Earthquake in the Philippines	Arturo DAAG ^{#+} <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
9	09:54 D-D2-AM1- BR1-008	NH-A146 Earthquake-Induced Landslide Hazard Modelling in Negros Island, Western Visayas, Philippines	Kimberley VITTO ^{#+} , Margarita DIZON, Arturo DAAG, Renato SOLIDUM <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
10	09:57 D-D2-AM1- BR1-009	NH-A149 Distribution Pattern of the Earthquake Induced Landslides Triggered by the 06 July 2017 Magnitude 6.5 Leyte Earthquake	Margarita DIZON ^{#+} , Kimberley VITTO, Arturo DAAG, Robelyn MANGAHAS, Lee Ann Joy BAYAN, Mabelline CAHULOGAN, Jeffrey PEREZ, Bryan MARFITO, Deo Carlo LLAMAS, Cathy POGAY <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
11	10:00 D-D2-AM1- BR1-010	NH-A203 Evaluation of the Cascading Effect of Fire on Slope Instability in Central Italy	Mauro ROSSI ^{#+} , Dino TORRI, Alessandro MONDINI, Paola REICHENBACH, Ivan MARCHESINI, Federica FIORUCCI, Marco BALDO, Daniele GIORDAN, Paolo ALLASIA, Giovanni BACARO <i>National Research Council (CNR), Italy</i>
13	10:03 D-D2-AM1- BR1-011	NH-A229 Risk Assessment of Landslide and Debris-Flow Using Numerical Analysis in Korea	Sukhwan JANG ^{1#+} , Kyoung Doo OH ² , Man Kyu SONG ¹ , Jeong Ho CHOO ¹ <i>¹ Daejin University, South Korea, ² Korea Military Academy, South Korea</i>

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Wednesday, February 07, 2018 | 10:45 - 12:30 | Ballroom 1

D / Multi-hazard interactions (cascades)

Chair(s): Talal Al Hosni, Noelyнна Ramos

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 D-D2-AM2-BR1-012	NH-A312 Quantitative Damage Assessment Based on Hazards Interactions	Silvia DE ANGELI [#] , Giorgio BONI ⁺ , Roberto RUDARI, Eva TRASFORINI, Lauro ROSSI <i>CIMA Research Foundation, Italy</i>
2	11:15 D-D2-AM2-BR1-013	NH-A326 Multi-Hazard Interactions Involving Landslides in India	Divya PULLARKATT ¹ , Bruce MALAMUD ^{2#+} , M. S. MADHUSOODANAN ¹ , Dhanya M ¹ <i>¹ Amrita Vishwa Vidyapeetham, India, ² King's College London, United Kingdom</i>
3	11:30 D-D2-AM2-BR1-014	NH-A213 Monitoring the Activities of Deep- Seated Landslides in Mountainous Area Using LiDAR Derived DEM and MT-InSAR	Keng-Ping CHENG ¹ , Rou-Fei CHEN ^{2#+} , Hsiao Yuan YIN ¹ , Chi-Rong CHUNG ¹ , Ching-Weei LIN ³ <i>¹ Soil and Water Conservation Bureau, Taiwan, ² Chinese Culture University, Taiwan, ³ National Cheng Kung University, Taiwan</i>
4	11:45 D-D2-AM2-BR1-015	NH-A004 Tsunami Early Detection System	Y. Tony SONG ^{#+} <i>NASA Jet Propulsion Laboratory (JPL), United States</i>
5	12:00 D-D2-AM2-BR1-016	NH-A060 Tectonics and Climate Induced Relative Sea-Level Changes Over the Past Centuries in Ryukyu Arc Recorded by Coral Microatolls	Jennifer WEIL-ACCARDO ^{1#+} , Kenji SATAKE ¹ , Nathalie FEUILLET ² , Tomoko GOTO ¹ , Hajime KAYANNE ¹ , Jean-Marie SAUREL ² , Noelyнна RAMOS ³ , Tomoya HARADA ¹ , Kazuhisa GOTO ⁴ , Kohki SOWA ⁵ , Mamoru NAKAMURA ⁶ <i>¹ The University of Tokyo, Japan, ² Institut de Physique du Globe de Paris, France, ³ University of the Philippines Diliman, Philippines, ⁴ Tohoku University, Japan, ⁵ Japan Agency for Marine-Earth Science and Technology, Japan, ⁶ University of the Ryukyus, Japan</i>

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Thursday, February 08, 2018 | 08:30 - 10:15 | Ballroom 1

D / Multi-hazard interactions (cascades)

Chair(s): Hai Thanh Tran, Rhodora Gonzalez

S/N	Presentation ID	Abstract ID / Title	Authors
1	08:30 D-D3-AM1-BR1-018	NH-A252 Natural Disaster Monitoring Using ALOS-2 for Sentinel Asia	Shinichi SOBUE ¹ , Takao FUKUDA ¹ , Tomoki MIYASHITA ¹ , Haruchika KAMIMURA ^{1#} , Osamu OCHIAI ¹ , Akiko NODA ¹ , Kei OYOSHI ¹ , Ko HAMAMOTO ¹ , Shiro KAWAKITA ¹ , Yuji TAKADA ¹ , Tadayoshi YAHATA ¹ , Takeo TADONO ¹ , Masato OHKI ¹ , Shiro OCHI ² , Lal SAMARAKOON ² , Takanori MIYOSHI ¹ <i>¹ Japan Aerospace Exploration Agency, Japan, ² Asian Institute of Technology, Thailand</i>
2	09:00 D-D3-AM1-BR1-019	NH-A117 Mapping of Natural Hazard Cascades in the Philippines from 2010 to 2017	Likha MINIMO ^{1,2#} , Ma. Criselda BALDAGO ³ , Mary Yshabelle FLORES ⁴ , Tim DAVIES ² , Sarah BEAVEN ² , Karen Ann JAGO-ON ¹ <i>¹ University of the Philippines, Philippines, ² University of Canterbury, New Zealand, ³ University of the Philippines Diliman, Philippines, ⁴ Philippine Science Highschool Western Visayas, Philippines</i>
3	09:15 D-D3-AM1-BR1-020	NH-A224 Importance of Rapid Post-Disaster Reconnaissance Surveys	Hermann M. FRITZ [#] <i>Georgia Institute of Technology, United States</i>
4	09:30 D-D3-AM1-BR1-021	NH-A029 Tsunamigenic Potential of the Main Tsunamigenic Regions in the Pacific: Application for Tsunami Hazard Assessment	Viacheslav GUSIAKOV [#] <i>Russian Academy of Sciences, Russian Federation</i>
5	09:45 D-D3-AM1-BR1-022	NH-A040 Monitoring Diffuse CO2 Degassing of Taal Volcano and its Relation to Recent Events	Ma. Criselda BALDAGO ^{1#} , Alfredo Mahar LAGMAY ¹ , Carlo ARCILLA ¹ , Padron ELEAZAR ^{2,3} , German PADILLA ² , Fátima RODRÍGUEZ ³ , Ruben GARCIA ² , Mar ALONSO ² <i>¹ University of the Philippines Diliman, Philippines, ² Institute of Technology and Renewable Energy (ITER), Spain, ³ Volcanological Institute of the Canary Islands (INVOLCAN), Spain</i>
6	09:48 D-D3-AM1-BR1-023	NH-A049 Identifying Spatiotemporal Hotspots of Individual and Multiple Natural Hazards in Thailand Using Spatial Statistics	Surassawadee PHOOMPANICH [#] , Stuart BARR, Rachel GAULTON <i>Newcastle University, United Kingdom</i>
7	09:51 D-D3-AM1-BR1-024	NH-A161 Geologic Impacts of the 2017 M6.5 Leyte Earthquake in Comparison to the 2007 Ready Hazard Maps	Mabelline CAHULOGAN [#] , Margarita DIZON, Deo Carlo LLAMAS, Robelyn MANGAHAS ⁺ , Kimberley VITTO, Bryan MARFITO, Cathy POGAY, Jeffrey PEREZ, Joan SALCEDO, Dave Andrei RIVERA, Lara Jennina GIANAN, Clint Drexel ONGUE, Joana UMBANA, Johnlery DEXIMO, Nemesio CANETE, Ruben LAMELA, Dynie DOLOIRAS, Shauntel ORTEGO, Jun BONITA, Myra DOLINA, Arnold MELOSANTOS, Paul Chrisstian CATOERA, Melcario PAGTALUNAN, Herminio Jr. GUZMAN, Shally Marck DAGUIAO, Renato SOLIDUM <i>Philippine Institute of Volcanology and Seismology, Philippines</i>
9	09:54 D-D3-AM1-BR1-025	NH-A178 Mitigation Map for Multi-Hazards Prevention in Mount Merapi, Indonesia	Astri Indra MUSTIKA ⁺ , Muhammad Ghassan JAZMI SHALIHIN, Dani MARDIATI [#] , Agung SETIANTO <i>Universitas Gadjah Mada, Indonesia</i>

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Thursday, February 08, 2018 | 10:45 - 12:30 | Ballroom 1

G / Single Hazard Case Studies

Chair(s): Bruce Shyu, Francesca Llanes

S/N	Presentation ID	Abstract ID / Title	Authors
1	10:45 G-D3-AM2- BR1-025	NH-A211 Quantifying Morphological Change in Tropical Rivers: Implications for Flood Risk Management	Richard WILLIAMS ^{1#} , Trevor HOEY ¹ , Brian BARRETT ¹ , Hazel LONG ¹ , Pamela TOLENTINO ² , Enrico PARINGIT ² ¹ University of Glasgow, United Kingdom, ² University of the Philippines, Philippines
2	11:00 G-D3-AM2- BR1-026	NH-A184 The Case Study of 2013 Typhoon Haiyan by Using CWB Operational COMCOT-SURGE Model	Tso-Ren WU ^{1#} , Yu-Lin TSAI ¹ , Chuen-Teyr TERNG ² , Chi-Hao CHU ² , Tien-Chiang YEH ² ¹ National Central University, Taiwan, ² Central Weather Bureau, Taiwan
3	11:15 G-D3-AM2- BR1-027	NH-A325 Dynamic-Process Analysis and Hazard Prediction of Debris Flow in Eastern Qinghai-Tibet Plateau Area	Qiang ZOU [#] Chinese Academy of Sciences, China
5	11:30 G-D3-AM2- BR1-028	NH-A241 Prediction of Lahar Flow Inundation Areas Using Laharz_py Program: Application for the Mt. Baekdu Volcano, Korea	Sung-Hyo YUN ^{1,2#} , Cheolwoo CHANG ¹ , Yong Boo BAN ³ ¹ Pusan National University, South Korea, ² Korean Society of Volcanic Hazard Mitigation, South Korea, ³ Institute for Environment Studies, South Korea
6	11:45 G-D3-AM2- BR1-029	NH-A267 Geophysical Insights Into Recent Storm Histories Using Ground Penetrating Radar at Bay-Bay Spit, Bicol, Central Philippines	Adam SWITZER ^{1#} , Jeremy PILE ² , Janneli Lea SORIA ¹ , Fernando SIRINGAN ³ , Dominik BRILL ⁴ , Arturo DAAG ⁵ ¹ Nanyang Technological University, Singapore, ² Bournemouth University, United Kingdom, ³ University of the Philippines, Philippines, ⁴ University of Cologne, Germany, ⁵ Philippine Institute of Volcanology and Seismology, Philippines
7	11:48 G-D3-AM2- BR1-030	NH-A156 Severe Bank Erosion Caused by an Intense Storm Event in Tokachi River Basin, Eastern Hokkaido, Japan	Mio KASAI [#] , Daisuke AOKI Hokkaido University, Japan
9	11:51 G-D3-AM2- BR1-031	NH-A102 Characterizing the 2015 Bakun Landslide Using Structure-From-Motion Technique	Kristina Rochelle MONTALBO ^{1#} , Carmille ESCAPE ¹ , Jolly SULAPAS ² , Jan Albert Macario GALANG ² , Rodrigo ECO ² , Alfredo Mahar LAGMAY ² ¹ University of the Philippines Nationwide Operational Assessment of Hazards (UP-NOAH), Philippines, ² University of the Philippines Diliman, Philippines
10	11:54 G-D3-AM2- BR1-032	NH-A114 Differentiation of Debris Flow Deposits Through Image Classification of Landsat 8 Images in Nueva Ecija After Typhoon Koppu	Carmille ESCAPE ^{1#} , Francesca LLANES ² , Iris Jill ORTIZ ¹ , Rodrigo ECO ² , Mahar LAGMAY ² ¹ University of the Philippines Nationwide Operational Assessment of Hazards (UP-NOAH), Philippines, ² University of the Philippines Diliman, Philippines
11	11:57 G-D3-AM2- BR1-033	NH-A204 Two Dimensional Kinematic Analysis for Subsurface Deep Seated Landslide Inclinerometers	Leodegario II LORENZO ^{1#} , Ricarido SATURAY JR. ^{1,2} , Renato SOLIDUM ¹ ¹ Philippine Institute of Volcanology and Seismology, Philippines, ² University of the Philippines Diliman, Philippines
12	12:00 G-D3-AM2- BR1-034	NH-A322 Effects of Particle Size of Geophysical Flows Impacting a Rigid Barrier	Yifei CUI [#] , Clarence CHOI ¹ , Dingzhu LIU ^{2#} , Charles W. W. NG ¹ , Luis H. D. LIU ¹ ¹ Hong Kong University of Science and Technology, Hong Kong SAR, ² Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China, China
13	12:03 G-D3-AM2- BR1-035	NH-A068 A Mass Failure in the Northern Flank of the Kueishantao Island Off Northeastern Taiwan: Debris Avalanches and Related Structures in the Offshore Downslope	Pichun HUNAG ^{1#} , Shu-Kun HSU ¹ , Benoit DEFFONTAINES ² , Song-Chuen CHEN ³ , Ching-Hui TSAI ¹ ¹ National Central University, Taiwan, ² Université Paris-Est Marne-la-Vallée (UPEM), France, ³ Ministry of Economic Affairs, Taiwan

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