

U-15

Utilization of diverse disaster information: integration and deployment toward disaster mitigation



2026. May 28 (Thu.)

Oral Session: 9:00-12:15 (Room special setting 2 in International Exhibition Hall)

Poster Session 17:30-19:00 (International Exhibition Hall)

JpGU環境災害対応委員会

Environment and Disaster Coping Committee
Japan Geoscience Union

防災学術連携体

Japan Academic Network of Disaster Reduction



一般社団法人

日本応用地質学会

Japan Society of Engineering Geology

Oral session (AM1 & AM2, 28 May Thursday)

- 9:00- 9:15 **Observations for Earthquake and Tsunami Disaster Mitigation over the Past Three Decades**
Shin Aoi (NIED)
- 9:15- 9:30 **Business Continuity Plan for Coastal Tourism Area in the Face of Tsunami Risk: The Case of Pangandaran**
Harkunti P. Rahayu (Institute Technology of Sumatera, Indonesia)
- 9:30- 9:45 **Linking volcano monitoring and volcanic disaster risk reduction**
Masato Iguchi (Sakurajima Volcanic Disaster Risk Reduction Research Center, Kagoshima city)
- 9:45-10:00 **Impact of Satellite Data Assimilation on Tropical Cyclone Analysis, Forecasting, and Disaster Mitigation**
Zhaoxia Pu (University of Utah, USA)
- 10:00-10:15 **Long-Term Measurement of Water-Level and Channel Vibrations for Debris-Flow Sign Detection**
Seigo Sakaki, Yuya Tonegawa, Teruyuki Kikuchi (Suwa University of Science), Kyosuke Sasaki (Amber Logix Inc.), Koichi Hayashi (Research Center for Landslide Disaster Risk Cognition and Reduction, DPRI, Kyoto University)
- 10:15-10:30 **Research and Development for Integration, Analysis, Sharing, and Utilization of Disaster Information – NIED’s Action Research based on Collaboration with Various Disaster Management Organizations**
Hitoshi Taguchi (NIED)
- 10:45-11:00 **Compound Disasters Induced by Seismic Activity and Heavy Rainfall — Evidence from Past Complex Hazard Events —**
Naoko Kitada (Geo-Research Institute)
- 11:00-11:15 **Survey and Practical Use of Natural Disaster Memorial Monuments in Japan**
Keiji Chida (HASSHU Co., Ltd.), Hiroyuki Shimomura (PASCO Co.)
- 11:15-11:30 **Passing Down Past Disaster to the Next Generation: Natural Disaster Memorial Monuments Around the World**
Tomohiro Nishimura (Kokusai Kogyo Co., Ltd.,) and Shouji Ueno (OYO Co.)
- 11:30-11:45 **Application of Topographic Information to Heavy Rainfall Evacuation Plans in Slope Settlements**
Atsuko Nonomura, Rise Nakamura (Kagawa University), Kenichi Nishiyama (Tokushima University), Azusa Tonotani, Yuto Furutani, Mamoru Yanagiuchi (Miyoshi City, Tokushima Prefecture)
- 11:45-12:15 **Panel Discussion**

Poster session (PM3, 28 May Thursday)

- P01 **Challenge for natural disaster mitigation -now and past- (Invitation for U-15)**
Takashi AZUMA (GSJ/AIST)
- P02 **Assessment of Damage along Distributed Faults Using SAR Satellite Data**
Masashi Omata, Jun Sugimoto, Kento Adachi, Watanabe Kazuki (PASCO Co.)
- P03 **Multi-wavelength LC-InSAR detection of coseismic and off-fault surface deformation during the 2019 Ridgecrest earthquake sequence**
Kento Adachi, Masashi Omata, Jun Sugimoto (PASCO Co.)
- P04 **Analyze the Risk of Large Earthquakes by Yourself: A Data Dashboard for JMA Shindo Data**
Takuya Kawanishi (EX Analytics)
- P05 **Utilization of the Integrated Earthquake Simulator for Local Government Disaster Prevention: Accuracy Verification and Web Application Development**
Sho ITO, Shinpei Ito (Nikken Sekkei Research Institute), Takayuki Kawajiri (MIERUNE Inc.), Hideyuki O-tani (Japan Agency for Marine-Earth Science and Technology), Yoshihide Sekimoto (Center for Spatial Information Science, The Univ. of Tokyo)
- P06 **Advancing Offshore Earthquake and Tsunami Early Warning in Cascadia**
William S. D. Wilcock (School of Oceanography, Univ. of Washington), Zoe Krauss, J. Renate Hartog (Department of Earth and Space Sciences, Univ. of Washington), Mikael Mazur, Nicolas K. Fontaine, Roland Ryf, David T. Neilson (Nokia Bell Labs, New Providence), David A. Schmidt, Bradley P. Lipovsky, Marine A. Denolle, Harold J. Tobin, Paul Bodin, Mika Thompson, William J. Dienstfrey, Alexander Rose Hartog (Department of Earth and Space Sciences, Univ. of Washington), Dana A. Manalang (Applied Physics Laboratory, Univ. of Washington), Yoichiro Dobashi (School of Oceanography, Univ. of Washington), Michael J. Harrington (Applied Physics Laboratory, Univ. of Washington)
- P07 **Landslide Susceptibility Mapping Using Vision Transformer with Pre-Event Topographic DEM: A Case Study of Deep-Seated Landslides in the Kii Peninsula, Japan**
Teruyuki Kikuchi, Tetsuyasu Yamada (Suwa Univ. of Science)
- P08 **Aircraft observation of tropical cyclones in T-PARCII**
Kosuke Ito (DPRI, Kyoto Univ., Yokohama National Univ.), Kazuhisa Tsuboki (Nagoya Univ., Yokohama National Univ.)
- P09 **A preliminary study on an optimal placement of water level sensors for a flood depth estimation system**
Akihiro Nagao, Hideaki Kitauchi, Masato Nakamura (MRI Research Associates, Inc.)
- P10 **Factors influencing the occurrence of sediment disasters caused by the January 2024 Noto Peninsula earthquake and the September 2024 Oku-Noto heavy rainfall**
Hiromu Daimaru, Kaisei Morita, Natsume Okada (Faculty of Bioresources and Environment Ishikawa Prefectural Univ.)
- P11 **Needs and seeds in research toward mitigation of earthquake–rainfall cascading complex disasters: learning from the Noto Peninsula cases**
Yuki Matsushi (DPRI, Kyoto Univ.)
- P12 **Empowering Local Resilience through Verifiable LLM Governance: Bridging the “Text-to-Action” Gap for Multi-Sector Disaster Planning**
Jie-Ru Tsai, Po-Tsang Chen (Feng Chia Univ., Taiwan)
- P13 **Disaster Risk Assessment for Cultural Heritage Monuments Using Integrated Damage and Restoration Records**
Hideyuki Uesugi, Naoya Mitani (Cultural Heritage Disaster Risk Management Center, Nara National Research Institute for Cultural Properties)
- P14 **Utilization of observation information on natural disasters for disaster prevention and challenges**
Kazuo Tamura (Kanagawa Univ.)

Conveners: Takashi AZUMA(GSJ/AIST), Hiroyuki SHIMOMURA (PASCO Co.) , Naoko KITADA (Geo-Research Institute), Keiji CHIDA (Hasshu Co., Ltd.), Teruyuki KIKUCHI (Suwa Univ. of Science), Masashi OMATA (PASCO Co.), Kazuo TAMURA (Kanagawa Univ.), Yuki MATSUSHI (DPRI, Kyoto Univ.), Hiroshi UNE (Ochanomizu Univ.), Harkunti P. RAHAYU (Institute Technology of Sumatera), Kosuke ITO (DPRI, Kyoto Univ.)