

The 121th Annual Meeting of the Geological Society of Japan--Oral Presentation

■ 13 Saturday, AM

| Loc | Room 2 (121) | Room 3 (131) | Room 4 (122) |
|--------|--|---|--|
| | T1. Orogenic processes in island arcs : subduction, accretion, collision and recycling | T9. Quaternary basin research | R16. Paleontology |
| | Chairs : Hafiz Ur REHMAN (1-5), Kazuaki OKAMOTO (6-10) | Chairs: Atsushi URABE (1-5), Gentaro KAWAKAMI (6-9) | Chairs: Masakazu NARA (1-3), Takao UBUKATA (4-7) |
| 9 : 00 | <p>9 : 00 T1-O-1 Transformation of an oceanic arc into the continental crust in the Izu Collision Zone Satoshi SAITO</p> <p>9 : 15 T1-O-2 Ancient oceanic crust in island arc lower crust: evidence from oxygen isotopes in zircons from the Tanzawa Tonalitic Pluton. Kazue SUZUKI · Yusuke SAWAKI · Kouki KITAJIMA · John W. VALLEY · Kenta HATTORI · Takafumi HIRATA · Shigenori MARUYAMA</p> <p>9 : 30 T1-O-3 Ductility contrast in pelitic schist : microtectonic evidence for seismic bright spots Tayyaba MATEEN · Hiroshi YAMAMOTO · Hafiz Ur REHMAN</p> <p>9 : 45 T1-O-4 Duplex of metamorphic unit including ultramafic rocks in the central region of Tokunoshima Island, southwest Japan Shuro UEDA · Hiroshi YAMAMOTO · Masaru TERABAYASHI</p> <p>10 : 00 T1-O-5 Slab dehydration recorded in subducted serpentine sea-mount (Oceanic Island Arc) Kazuaki OKAMOTO · Seiya FUKUMURA · Chiharu ISHIMORI</p> <p>10 : 15 Break</p> <p>10 : 30 T1-O-6 (Invited) Sr-Nd-Hf Isotopic Characterization of Granitoids in Accretionary Orogens of Asia and Implications for Crustal Development Bor-ming JAHN · Ying TONG · Tao WANG · Kazuaki OKAMOTO · Galina VALUI · Masako USUKI</p> <p>11 : 00 T1-O-7 (Invited) Accretionary Complex Geology and evolution of inner Earth Shigenori MARUYAMA</p> <p>11 : 30 T1-O-8 Evolution of the thermal and compositional structure of the wedge mantle during the incipient stage of the IBM arc formation Susumu UMINO · Kyoko KANAYAMA · Keitaro KITAMURA · Osamu ISHIZUKA</p> <p>11 : 45 T1-O-9 Evolution processes of hot subduction zone in the Oman Ophiolite Yuki KUSANO · Keitaro KITAMURA · Susumu UMINO · Yoshiko ADACHI · Sumio MIYASHITA · Kazuya NAGAISHI · Tsuyoshi ISHIKAWA</p> <p>12 : 00 T1-O-10 Plume-type and passive-spreading type ophiolites in Japan Akira ISHIWATARI</p> | <p>10 : 15 T9-O-1 Sedimentary system of the Ishikari Coastal Plain as a late Holocene deflected wave-influenced delta Gentaro KAWAKAMI · Kenji NISHINA · Tsumoru SAGAYAMA · Katsumi KIMURA · Wataru HIROSE · Yoshihiro KASE · Sunao OHTSU</p> <p>10 : 30 T9-O-2 Facies architecture and ground vibration property of the Pleistocene Kioroshi Formation beneath the northern part of the Shimosa Upland, central Japan Tsutomu NAKAZAWA · Kentaro SAKATA · Ikuo CHO · Susumu NONOGAKI · Tomonori NAYA · Misao HONGO · Hiroomi NAKAZATO</p> <p>10 : 45 T9-O-3 Stratigraphy of Shimosa Group at the coastal area of Tokyo Bay in the northwestern region of Chiba Prefecture, central Japan Tomonori NAYA · Kentaro SAKATA · Hiroomi NAKAZATO · Junko KOMATSUBARA · Tsutomu NAKAZAWA</p> <p>11 : 00 T9-O-4 Sedimentary facies and depositional environments of the Pleistocene to Holocene incised valley fills in Funabashi city, Chiba prefecture Junko KOMATSUBARA · Rei NAKASHIMA · Tomonori NAYA</p> <p>11 : 15 T9-O-5 Geological investigation of the Quaternary deposits underlying the plains in the coastal area of the northern Suruga Bay, Japan Takeshi ISHIHARA · Kiyohide MIZUNO</p> <p>11 : 30 T9-O-6 Characteristics of geological and geotechnical soil properties in Kansai Area using borehole database. Naoko KITADA · Naoto INOUE · Keiji TAKEMURA · Mamoru MIURA · Akihiko OSHIMA</p> <p>11 : 45 T9-O-7 Trench and coring survey of the tsunami deposits in the coastal plane along the Wakasa Bay area, Fukui Prefecture, central Japan. Hirofumi YAMAMOTO · Atsushi URABE · Naohiro SASAKI · Yasuhiro TAKASHIMIZU · Kyoko S. KATAOKA</p> <p>12 : 00 T9-O-8 Study of the tsunami deposits in the coastal plane along the Fukui area, central Japan Atsushi URABE · Hirofumi YAMAMOTO · Naohiro SASAKI · Yasuhiro TAKASHIMIZU · Kyoko KATAOKA</p> <p>12 : 15 T9-O-9 Tsunami traces due to 7.3ka Kikai caldera eruption around Kosedo coast, northeastern Yakushima Island: A hypothesis regarding their generation and storage process. Futoshi NANAYAMA · Fukashi MAENO · Shojiro NAKAGAWA · Hiroyuki SASAKI · Masamichi OMOTE · Nobuo GESHI · Kazuaki WATANABE · Hideto NARUO · Tetsuo KOBAYASHI</p> | <p>9 : 30 R16-O-1 The influence of the collector's bias on sample-level diversity estimates Takao UBUKATA · Shuhei YAMASHITA</p> <p>9 : 45 R16-O-2 Palynomorph analysis of black shales deposited during the mid-Cretaceous Oceanic Anoxic Events (OAEs): Reconstruction of primary producers Ando TAKUTO · Ken SAWADA · Reishi TAKASHIMA · Hiroshi NISHI</p> <p>10 : 00 R16-O-3 Minute fusulinoideans having fan-shaped shells from Funafuseyama Limestone of Mino Terrane, Enbara, Yamagata City, Gifu Prefecture and their habitats. Yasuhiro OTA · Hiroyoshi SANO · Tetsuo SUGIYAMA</p> <p>10 : 15 R16-O-4 Mode of occurrence of <i>Epidiceras</i> (gastropod-shaped rudist) from Torinosu-type Limestone and Bau Limestone (the Upper Jurassic), and its implication for their evolutionary history Yoshihiro KAKIZAKI</p> <p>10 : 30 R16-O-5 Ichnology and palaeoecology of a <i>Hillichnus</i>-like trace fossil from Jurassic tidal deposits of the Sakamoto Formation, Kumamoto Prefecture, Southwest Japan Masakazu NARA · Ayuko HIRABAYASHI · Toshifumi KOMATSU</p> <p>10 : 45 R16-O-6 Response of reef corals to Late Quaternary climate changes in the Great Barrier Reef: The Ribbon Reef 5 and Boulder Reef deep drill cores revisited Marc HUMBLET · Jody M. WEBSTER</p> <p>11 : 00 R16-O-7 Discovery of Numann's elephant (<i>Paleoloxodon naumanni</i>) fossil from the 1230m altitude point from Sasagamine, Nigata Prefecture and its significance Yoichi KONDO</p> |
| | | | R17. The Jurassic + |
| | | | Chairs: Atsushi MATSUOKA (1-2), Yasuo KONDO (3-4) |
| | | | <p>11 : 30 R17-O-1 Tidal deposits and the fossil associations of the Yatsuji Formation of the Torinosu Group in Sakawa area, Kochi Yasuo KONDO · Yu UCHIIKE · Masakazu NARA</p> <p>11 : 45 R17-O-2 Obduction of Neyriz ophiolite in the Zagros mountains, south Iran Ken-ichiro HISADA · Yoshihito KAMATA · Shoji ARAI · Monireh POSHTKOOHI</p> <p>12 : 00 R17-O-3 Characteristics of the Earliest Jurassic radiolarian assemblages in Japan Naoto ISHIDA</p> <p>12 : 15 R17-O-4 Turing patterns on a spherical surface and skeletogenesis of siliceous test - A case study on Mesozoic radiolarian <i>Pantanelium</i> Atsushi MATSUOKA · Takashi YOSHINO</p> |

※ Alphabets in presentation codes indicate S: Symposium, OR: Outreach, T: Topic session, R: Regular session, O: Oral, and P: Poster.

※ If there is a difference in title(s) or author(s) between the program and abstract volume, then the latter should be referred. Presenting author is given in bold.

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| Loc | Room 5 (124) | Room 6 (125) | Room 7 (212, 213) |
|--------|---|--|---|
| | R18. Geoinformatics and its application | R9. Origin, texture and composition of sediments | R25. Mineral resources and global material cycles |
| | Chairs: Makoto SAITO (1-3) | Chairs: Atsushi NODA (1-3), Tohru OHTA (4-7) | Chairs: Yasuhiro KATO (1-3), Tatsuo NOZAKI (4-7), Koichiro FUJINAGA (8-11) |
| 9 : 00 | <p>9 : 00 R18-O-1 Release of the Geological Literature Search (GEOLIS) API and introduction of the data utilization. Kazuki NAITO · Yoshiaki SUGAWARA · Kazuaki WATANABE</p> <p>9 : 15 R18-O-2 Prototype tool for partial cutting of Geological Map Image distributed by Geological Web Map Service Susumu NONOGAKI · Tatsuya NEMOTO</p> <p>9 : 30 R18-O-3 Toward the practical application of integrated data analysis for marine mineral resources Kazuya KITADA · Takafumi KASAYA · Hideaki MACHIYAMA</p> <hr/> <p>T6. Recent progress in three-dimensional geological modeling Chairs: Osamu TAKANO (1-3), Shinji MASUMOTO (4-5), Tatsuya NEMOTO (6-8)</p> <p>10 : 00 T6-O-1 Proposal of studies utilizing a three-dimensional geological model Yumeki HOSHIKA · Mamoru TOYODA</p> <p>10 : 15 T6-O-2 Image tiles of Elevation Data and Visualization using WebGL Yoshiharu NISHIOKA · Juri NAGATSU</p> <p>10 : 30 T6-O-3 An investigation on evaluation and expression methods for reliability of three dimensional subsurface geological model Shinji MASUMOTO · Tatsuya NEMOTO · Susumu NONOGAKI</p> <p>10 : 45 T6-O-4 (Invited) 3D-models of alluvial sediments and their implications Yoshiro ISHIHARA · Kento NAKAO</p> <p>11 : 15 T6-O-5 Shallow-level subsurface 3D geological modeling based on analysis of borehole data: A case of the Tokyo lowland area Katsumi KIMURA · Yuki HANASHIMA · Shoichi NISHIYAMA · Yoshiro ISHIHARA</p> <p>11 : 30 T6-O-6 (Invited) Quantifying geological heterogeneity and uncertainty for petroleum exploration and development Shunji MORIYA</p> <p>12 : 00 T6-O-7 Input of sedimentological constraints into three-dimensional sediment body property modeling: recent progress and way forward Osamu TAKANO</p> <p>12 : 15 T6-O-8 Sedimentological reservoir characterization and geostatistical modeling for the mud content distribution at the Nagaoka CO₂ storage site, Japan Takuma ITO · Takahiro NAKAJIMA · Ziqiu XUE · Shun CHIYONOBU</p> | <p>10 : 45 R9-O-1 Distribution of radiocesium derived from the Fukushima nuclear accident in Sendai Bay Tsutomu YAMADA · Koji MINOURA · Shin-ichi HIRANO · Shin'ichi SATO · Hirokazu KATO · Shinji SUGIHARA</p> <p>11 : 00 R9-O-2 Soft-sediment deformation of the Himenoura Group (Upper Cretaceous) in Gosyoura and Ushibuka areas, Kumamoto. Yuta KIMURA · Asahi TAKESHITA · Hiroyoshi SANŌ</p> <p>11 : 15 R9-O-3 The phosphatic rocks from the Tomikusa group Toshiro MORIKIYO</p> <p>11 : 30 R9-O-4 Formation of sideritic rocks in the Ishikari coalfield -particularly on the source and precipitation of iron Yuki ASANO · Tomoya KUSAKABE · Toshiro MORIKIYO</p> <p>11 : 45 R9-O-5 Toward development for colour stratigraphy on Tertiary Mudrocks using spectroscopy Taquimi TUZINO · Yukio YANAGISAWA · Takashi KUDO</p> <p>12 : 00 R9-O-6 Provenance of the Ichikano Tectonic Unit of the Muro Accretionary Sequence in the Kii Peninsula deduced from the sandstone composition Takanori BESSHO</p> <p>12 : 15 R9-O-7 Continental weathering recorded in the Upper Triassic in Tethys Himalaya, central Nepal Kohki YOSHIDA · Chie MIYAZAWA · Yuka SHIGA · Nozomi HATANŌ</p> | <p>9 : 30 R25-O-1 (Invited) Environmental change and biogeochemical cycles: Snowball Earth event and manganese ore deposits Eiichi TAJIKA</p> <p>10 : 00 R25-O-2 Occurrence and iron isotope values of banded iron formation in the Early Archean: Implication for their origin Tsuyoshi KOMIYA</p> <p>10 : 15 R25-O-3 Radiolarian faunal turnover and paleoproductivity change across the Late Triassic impact event Tetsuji ONOUE · Honami SATO · Minoru IKEHARA · Yutaro TAKAYA · Tatsuo NOZAKI · Koichiro FUJINAGA · Yasuhiro KATO</p> <p>10 : 30 R25-O-4 Future development for rare-earth elements and yttrium-rich mud deposits within the Minamitorishima EEZ Yasuhiro KATO · Katsuhiko SUZUKI · Kentaro NAKAMURA · Koichiro FUJINAGA · Yutaro TAKAYA · Shiki MACHIDA · Kazutaka YASUKAWA · Junichiro OHTA · Tatsuo NOZAKI · Koichi IJIMA · Hikaru IWAMORI</p> <p>10 : 45 R25-O-5 Multiple acoustic surveys to assess distribution of rare-earth elements and yttrium-rich muds and ferromanganese nodules throughout Exclusive Economic Zone around the Minamitorishima Shiki MACHIDA · Kentaro NAKAMURA · Koichiro FUJINAGA · Shiki IJIMA · Katsuhiko SUZUKI · Kyoko OKINO · Chie HONSHO · Mitsuhiro OIKAWA · Yasuhiro KATO</p> <p>11 : 00 R25-O-6 Mineralogical features of REY-rich mud in Japanese EEZ around Minamitorishima Junichiro OHATA · Yutaro TAKAYA · Koichiro FUJINAGA · Kentaro NAKAMURA · Kazutaka YASUKAWA · Shiki MACHIDA · Koichi IJIMA · Katsuhiko SUZUKI · Hikaru IWAMORI · Yasuhiro KATO</p> <p>11 : 15 R25-O-7 Geochemical features of rare-earth elements and yttrium-rich mud in the Minamitorishima EEZ Koichiro FUJINAGA · Yasuhiro KATO · Kentaro NAKAMURA · Katsuhiko SUZUKI · Yutaro TAKAYA · Shiki MACHIDA · Kazutaka YASUKAWA · Junichiro OHTA · Shuuhei ARAKI · Hanjie LIU · Ryo USAMI · Ryota MAKI · Satoru HARAGUCHI · Koichi IJIMA · Hideaki MACHIYAMA · Tatsuo NOZAKI · Yoshiro NISHIO · Yoichi USUI · Toshitsugu YAMAZAKI · KR13-02 cruise members · MR13-E02 Leg2 cruise members · KR13-02 crue members</p> <p>11 : 30 R25-O-8 Dating of deposition of rare earth rich sediments around the Minamitorishima Island through the Os isotope stratigraphy Katsuhiko SUZUKI · Tatsuo NOZAKI · Koichi IJIMA · Yutaro TAKAYA · Koichiro FUJINAGA · Yasuhiro KATO</p> <p>11 : 45 R25-O-9 Os isotope dating on a ferromanganese nodule occurring in the eastern Minamitorishima Exclusive Economic Zone Tatsuo NOZAKI · Kosuke GOTO · Yutaro TAKAYA · Katsuhiko SUZUKI · Hajime SHIMODA · Jun-Ichi KIMURA · Qing CHANG · Shiki MACHIDA · Teruaki ISHII · Kenji SHIMIZU · Naoto HIRANO</p> <p>12 : 00 R25-O-10 A Study on the Recovery of Rare-Earth Elements from REY-rich Mud by Chemical Leaching Method. Yutaro TAKAYA · Takashi HIRAIDE · Koichiro FUJINAGA · Kentaro NAKAMURA · Yasuhiro KATO</p> <p>12 : 15 R25-O-11 Geochemical components of deep-sea sediments in the Pacific Ocean decoupled by independent component analysis: Implications for genesis of rare-earth elements and yttrium-rich mud Kazutaka YASUKAWA · Kentaro NAKAMURA · Koichiro FUJINAGA · Junichiro OHTA · Yutaro TAKAYA · Shiki MACHIDA · Hikaru IWAMORI · Yasuhiro KATO</p> |

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| Loc | Room 8 (211) |
|--------|---|
| | R13. Deformation and reactions of rocks and minerals |
| | Chairs: Tomoyuki MIZUKAMI (1-3), Takehiro HIROSE (4-7), Makoto OTSUBO (8-12) |
| 9 : 00 | <p>9 : 00 R13-O-1 (Invited) Rock microstructure developed by grain boundary processes Takehiko HIRAGA</p> <p>9 : 30 R13-O-2 Temperature dependent CPO of dynamically recrystallized plagioclase Kyuichi KANAGAWA · Akiyuki KATO · Tomoyuki ARAI · Takashi YOSHINO · Hiroshi YAMAMOTO</p> <p>9 : 45 R13-O-3 High-temperature fracturing and subsequent grain-size-sensitive creep in lower crustal gabbros: Evidence for coseismic loading and subsequent creep at decay stress in the lower crust? Takamoto OKUDAIRA · Petr JERABEK · Holger STUNITZ</p> <p>10 : 00 R13-O-4 Two types of antigorite serpentinite controlling heterogeneous slow-slip behaviours of slab-mantle interface Tomoyuki MIZUKAMI · Hironori YOKOYAMA · Yoshihiro HIRAMATSU · Shoji ARAI · Hirokazu KAWAHARA · Takayoshi NAGAYA · Simon WALLIS</p> <p>10 : 15 R13-O-5 Large-scale convection of the hydrated forearc mantle suggested by the seismic anisotropy modeling~A case of Ryukyu arc~ Takayoshi NAGAYA · Andrew M. WALKER · James M. WOOKEY · Michael J. KENDALL · Simon R. WALLIS</p> <p>10 : 45 R13-O-6 Fracturing induced by hydration and dehydration reactions: effects of solid volume change Atsushi OKAMOTO · Hiroyuki SHIMIZU</p> <p>11 : 00 R13-O-7 Mechanism of rock fracturing triggered by geofluid Saya ISHIYAMA · Jun-ichi ANDO · Das KAUSHIK · Yasuhiro OTA · Shun'ichi NAKAI</p> <p>11 : 15 R13-O-8 Roughness of fault surfaces over a length-scale range from nano- to millimeters Minori KISHIDA · Kazuo MIZOGUCHI · Miki TAKAHASHI · Takehiro HIROSE</p> <p>11 : 30 R13-O-9 Analysis of the fault gouge of the Idozawa Fault, which developed in the south-east region of Fukushima Prefecture in North-East Japan: the surface area of particles comminuted by fault movement during the 4.11 earthquake Toru SAKAI · Shigeru TAKIZAWA</p> <p>11 : 45 R13-O-10 Comminuted gouge particles generated by large-scale biaxial rock friction experiments: Relation between applied work and surface area of comminuted particles, and molten materials Shigeru TAKIZAWA · Eiichi FUKUYAMA · Futoshi YAMASHITA · Shiqing XU · Kazuo MIZOGUCHI · Hironori KAWAKATA · Kotoyo TUCHIDA</p> <p>12 : 00 R13-O-11 Microstructure of the fault surface material formed in chert during intermediate-velocity friction experiments Akito TSUTSUMI · Akira MIYAKE</p> <p>12 : 15 R13-O-12 Long-term strength evolution of fault zones due to weak-phase enrichment and textural development Kiyokazu OOHASHI</p> |

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