

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

■ 13 Sept. (Sat) Core time 13:30-14:50 (2nd Gymnasium)

T1. Orogenic processes in island arcs: subduction, accretion, collision and recycling

T1-P-1

Himalayan UHP eclogites: constraints for the India-Asia collision **Hafiz Ur REHMAN**

T1-P-2

Study on Setouchi volcanic rocks in the Yashima area **Daisuke NOGAMI** · Masaru TERABAYASHI · Shuichi HASEGAWA · Mamoru MURATA · Hideo SAKAI · Sun-Lin CHUNG · Kazuaki OKAMOTO

T1-P-3

Frontal wedge of recycled slope materials in sediment-starved trenches: a case of Cape Shiriya area (NE Japan) Sho KIMURA, **Hayato UEDA**, Yuji ORIHASHI

T6. Recent progress in three-dimensional geological modeling

T6-P-1

3D low-altitude aerial-photography: Yajirobee **Toshiyuki KITAZAWA** · Yohei SHIRAKI · Seongwon LEE · Yukiko SENGA

T7. Environmental evolution across the Paleozoic--Mesozoic transition

T7-P-1

Lithologic variations between two pelagic deep-sea sections of the Ashio and Mino belts **Shun MUTO** · Satoshi TAKAHASHI · Satoshi YAMAKITA · Noritoshi SUZUKI · Yoshiaki AITA

T8. New science in deep riser-drilling

T8-P-1

Characteristics of the topography and geology in the Jan Mayen Ridge, Norway **Kiichiro KAWAMURA** · Saori KOBAYASHI · Laberg JAN SVERRE

T8-P-2

Early deformation of marine sediments and their magnetic susceptibility **Yujin KITAMURA** · Toshiya KANAMATSU

T8-P-3

Title Physical properties of Nankai Accretionary prism sediments at Site C0002, IODP Expedition 348 **Manami KITAMURA** · Hiroko KITAJIMA · Pierre HENRY · Robert VALDEZ · Matthew JOSH · Scientists EXPEDITION 348

T9. Quaternary basin research

T9-P-1

Changes of fossil diatom assemblage and tectonic movements in Tainohama, Tokushima prefecture during the late

Holocene **Takashi CHIBA** · Shigehiro FUJINO · Emmy KOBORI

T9-P-2

Four Holocene wave-cut benches uplifted by subduction earthquakes and historical tsunami gravel beds around Koseda coast, northeastern Yakushima Island: A preliminary report. **Shojiro NAKAGAWA** · Hiroyuki SASAKI · Masamichi OMOTE · Futoshi NANAYAMA · Nobuo GESHI · Kazuaki WATANABE · Hideto NARUO · Fukashi MAENO · Tetsuo KOBAYASHI

R2. Petrology, mineralogy and economic geology

R2-P-1

The origin of kosmochlor from Kanayamadani Itoigawa region, Niigata prefecture **Satoru FUJII** · Takahiko OGAWARA

R3. Eruption, evolution and products of volcanic processes

R3-P-1

Long-term evolution of magma plumbing system of Numazawa volcano (2) **Yoshiko MASUBUCHI** · Yasuo ISHIZAKI · Akiko MATSUMOTO · Mizuho AMMA-MIYASAKA · Mitsuhiro NAKAGAWA

R3-P-2

K-Ar ages of a Quaternary volcanic rock in Tomari region, Toyama Prefecture, central Japan **Kuniaki NISHIKI** · Ryuta FURUKAWA · Teruki OIKAWA · Hideaki NAGAMORI

R3-P-3

Fracturing during ductile-brittle transition and formation of flow structure in rhyolite lava **Kuniyuki FURUKAWA** · Koji UNO

R3-P-4

Deposition process of pumiceous sediments along the Yateikurasawa river, Utsukushigahara Plateau, Nagano Prefecture, central Japan **Hiroki WATANABE** · Yasuyuki MIYAKE · Takeshi SAITO

R3-P-5

Emplace temperature determination for pyroclastic flow deposits estimated from oxidation state of pyroclastic materials **Tatsuo KANAMARU** · Kuniyuki FURUKAWA · Yuki SHIMIZU

R8. Marine geology

R8-P-1

Geological significance of the mesophotic reef zone: example from the Sekisei Barrier Reef **Marc HUMBLET** · Yasuo FURUSHIMA · Toshihiro MAKI · Yasufumi IRYU

R8-P-2

Geological structure around Tokunoshima Island, Kagoshima revealed by seismic profiles **Takahiko INOUE** · Tomoyuki

SATO · Kohsaku ARAI

R8-P-3

Paleoceanographic studies using organic matter dating of marine core collected from Antarctic Ocean **Koudai YAMASHITA** · Masashi MURAYAMA · Masanobu YAMAMOTO · Naomi HARADA

R8-P-4

Characteristics, formation and geological background of Foldback Reflectors; Implications from 3D seismic in the eastern Nankai Trough **Hironori OTSUKA** · Juichiro ASHI · Sumito MORITA

R8-P-5

Crustal movements, sedimentations and erosions estimated from depth anomalies of methane hydrate BSRs in the Nankai Trough **Akihiro OHDE** · Hironori OTSUKA · Arata KIOKA · Juichiro ASHI

R8-P-6

Progressive change of clay fabric by compaction using anisotropy of magnetic susceptibility (AMS) **Natsumi OKUTSU** · Takato TAKEMURA

R8-P-7

Non-destructive observation using an X-ray CT scanner for core sample produced by GEOTEK Ltd. **Yuji ICHIJAMA** · Fumio INAGAKI

R8-P-8

COre Electronic Database of Ocean Floor (COEDO); introduction and its future plan **Yukihiko NAKANO** · Yuji ICHIJAMA · Takayuki TOMIYAMA · Hiroki HORIKAWA

R9. Origin, texture and composition of sediments

R9-P-1

Relationship between geophysical and geochemical properties of saprolite and soils derived from granitic protolith **Takahiro KOBAYASHI** · Tohru OHTA

R9-P-2

Laboratory experiment for attesting the "weathering hypothesis" as a possible cause of the mid-Cretaceous Oceanic Anoxic Events **Gaku SASAKI** · Tohru OHTA

R9-P-3

Local liquidization structures in massive turbidites visualized by grain fabric. **Kyohei TANAKA** · Yuichiro MIYATA

R9-P-4

Grain fabric analysis for digital camera images of sand layers **Yuichiro MIYATA** · Hidenori SHIMOKAJI · Kyohei TANAKA

R9-P-5

Protolith type discrimination of clastic quartz grains by utilizing cathodoluminescence characteristic **Ayumu NAKAYAMA** · Tohru OHTA

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R9-P-6

Factors controlling gamma ray intensity of recent fluvial sediments and relationship between the sediments and geology its source area **Tatsuya KATAOKA** · Makoto TAKEUCHI

R9-P-7

Provenance analysis of clastic sediments of the Chichibu and Shimanto Belts in Okinawa Prefecture using sandstone modal and whole-rock chemical compositions **Ken HIROSE** · Tohru OHTA

R9-P-8

Provenance analysis and paleoclimate reconstruction of the Khorat Group in northeastern Thailand using the whole-rock chemical composition. **Ken-aro OE** · Tohru OHTA

R9-P-9

Paleoenvironmental reconstruction of Cretaceous lacustrine succession in Xinjiang-Uygur Autonomous Region **Keita ARAI** · Tohru OHTA · Hiromichi HIRANO · Syun HARIGAYA · Takashi SAKAI · Takashi KOZAI · Gang LI

R9-P-10

Provenance of sandstone clasts from the Upper Miocene Nakatsukyo Formation, Aikawa Group, in the northwestern part of Kanagawa Prefecture, central Japan. **Kiyokazu KAWAJIRI**

R9-P-11

Fluvial weathering environment of the Middle Miocene sediments based on the paleosols in the Tokiguchi Porcelain Clay Formation in Gifu Prefecture, central Japan **Nozomi HATANO** · Kohki YOSHIDA

R13. Deformation and reactions of rocks and minerals

R13-P-1

Sintering of nanocrystalline labradorite **Satoko HONDA** · Masahiro ISHIKAWA

R13-P-2

Investigation of ultra-low strain rate effect on deformation properties of olivine **Takafumi YAMAMOTO** · Jun-ichi ANDO · Naotaka TOMIOKA · Motoo ITO · Tomoaki MORISHITA · Hiroaki OHFUJI

R13-P-3

Deformation microstructures of Kohistan pyroxene granulites **Tomoyuki ARAI** · Kyuichi KANAGAWA · Hiroshi YAMAMOTO

R13-P-4

Formation process of Fe zoning in olivine grain composed of serpentinized peridotite **Jun-ichi ANDO** · Takafumi YAMAMOTO · Hiroaki OHFUJI · Hirokazu MAEKAWA · Keiko MURATA

R13-P-5

Petrological characteristics of high-temperature type rodingite

of serpentinite origin containing the Hidaka jade **Toyoto AZUMA** · Takayuki KATOH · Kouki SAITO · Keiji WADA · Katsuhisa SASAKI

R13-P-6

Estimation of the deformation environment of the small scale shear zones in Teshima Island, Seto Island Sea, SW Japan **Moei YANO** · Hideo TAKAGI · Yusuke ARAI

R13-P-7

Characteristic alteration minerals in hanging wall and footwall of Median Tectonic Line (MTL) in the eastern Kii Peninsula, SW Japan **Koichiro FUJIMOTO** · Nobuaki TANAKA · Norio SHIGEMATSU · Takanori MURAKAMI · Tamon ABE

R13-P-8

Evolution of fault zone architecture during the exhumation of the Median Tectonic Line in SW Japan **Norio SHIGEMATSU** · Masao KAMETAKA · Noriyuki INADA · Masahiro MIYAWAKI

R13-P-9

Temperature-dependent frictional strength of dolerite at an intermediate slip rate in a nitrogen atmosphere and its relation to the wear material cover on the slip surface **Nobuaki TANAKA** · Jun-ichi WADA · Kyuichi KANAGAWA

R13-P-10

Measurements of the bulk density and permittivity around craters formed by an impact experiment **Ken ISHIYAMA** · Atsushi KUMAMOTO · Yasuhiko TAKAGI · Norihiro NAKAMURA

R13-P-11

Relationship between porosity and the thermal conductivity of input materials in subduction zone **Osamu TADAI** · Weiren LIN · Takehiro HIROSE · Wataru TANIKAWA · Yohei HAMADA · Osamu MATSUBAYASHI · Kentaro HATAKEDA

R13-P-12

Mechanism of overpressure development in the Kazusa Group **Haruna MARUMO** · Yukie TAMURA · Syunsuke MITSUHASHI · Shinichi UEHARA · Sachiyo KANEKO

R13-P-13

Folded platy joints in basaltic flow in Tsunoshima Island, Shimonoseki City, Yamaguchi Pref., SW Japan. **Kei SATO** · Akira ISHIWATARI

R14. Subduction zones and on-land accretionary complexes

R14-P-1

Structural characteristics below landward slope of the Japan Trench off Miyagi observed on Pre-stack Depth Migrated seismic sections **Yasuyuki NAKAMURA** · Shuichi KODAIRA · Yuka KAIHO · Tetsuo NO · Gou FUJIE · Takeshi SATO · Yojiro YAMAMOTO · Seiichi MIURA · Narumi TAKAHASHI

R14-P-2

Physical properties of sediments and pore pressure from sediments off Costa Rica: IODP Expedition 344 **Ayaka SAIKI** · Yoshitaka HASHIMOTO

R14-P-3

Frictional properties of amorphous silica-bearing fault: insights from experiments on analogue material **Yuka NAMIKI** · Akito TSUTSUMI

R14-P-4

Core-log integration study of an exhumed subduction zone megasplay fault **Mari HAMAHASHI** · Ryoji KAWASAKI · Yohei HAMADA · Wataru TANIKAWA · Saneatsu SAITO · Yoshitaka HASHIMOTO · Gaku KIMURA

R14-P-5

Paleostress analysis of a subduction zone megasplay fault - An example from the Nobeoka Thrust, Japan **Ryoji KAWASAKI** · Mari HAMAHASHI · Yoshitaka HASHIMOTO · Makoto OTSUBO · Asuka YAMAGUSHI · Yujin KITAMURA · Jun KAMEDA · Yohei HAMADA · Rina FUKUCHI · Gaku KIMURA

R14-P-6

Detrital zircon U-Pb ages and accretionary age based on temporal transition in provenance: a case study of the Cretaceous Shimanto accretionary complex, eastern Shikoku **Hidetoshi HARA**

R14-P-7

Geological and chronological research around Ohnogahara limestone of Northern Chichibu Belt, western Shikoku, Southwest Japan **Tomohiro TSUJI** · Masayuki SAKAKIBARA

R14-P-8

Frictional heating recorded in vitrinite reﬂectance within coal material concentrated layer: The Cretaceous Shimanto Belt **Kiyohiko MORITA** · Yoshitaka HASHIMOTO · Takehiro HIROSE · Manami KITAMURA

R16. Paleontology

R16-P-1

Sea surface environment of the early-middle Pleistocene in the northwest Pacific based by planktonic foraminiferal assemblages **Koji SUZUKI** · Hiroki HAYASHI · Koji KAMEO · Noriyuki MURAOKA

R16-P-2

Morphologic changes of calcareous nannofossil genus *Discoaster* from the late Eocene to early Miocene and their significance **Haruna NISHIKIORI** · Koji KAMEO

R16-P-3

Ichnofabrics and ichnocoenoses of Miocene forearc shallow marine deposits of SW Japan. **Kenta AIKO** · Masakazu NARA

R16-P-4

A shell-concentrated sandstone bed containing vesicomiyid

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shells from the Lower Pleistocene Nojima Formation, Kazusa Group, Pacific side of central Japan **Masayuki UTSUNOMIYA** · Chihiro NAGAHAMA · Robert JENKINS · Atsushi NOZAKI · Ryuichi MAJIMA

R16-P-5

A fossil molluscan assemblage suggesting strong influence of Kuroshio : *Glycymeris-Scapharca-Amusiopecten* Assemblage in the Ananai Formation in Ono, Yasuda-cho, Kochi **Yuta YAMAOKA** · Yasuo KONDO

R16-P-6

Water quality estimated basal on the fossils of Planorbidae (Gastropoda) and Characeae (Charophyceae) from the Kitadani Formation of the Tetori Group in Katsuyama City, Fukui Prefecture **Michiharu GOTO** · Akina ISHIGAMI

R16-P-7

The Late Miocene Rodent Fauna from the Nakali Formation, Northern Kenya **Yoshiki TANABE** · Mayu ONODERA · Hideo NAKAYA

R17. The Jurassic +

R17-P-1

Redivision of the Kamiasso unit and the Nabi unit in the Mino terrane of the Mino-Hichiso area, Gifu Prefecture, central Japan **Yusuke KITAGAWA** · Yuichiro ARAI · Atsushi MATSUOKA

R17-P-2

Detrital zircon age spectra of Cretaceous beds in Japan: A preliminary study **Takuya HARADA** · Yoshikazu KOUCHI · Mitsuhiro NAGATA · Takuji IKEDA · Masanori SHIMOJO · Yuta KAWAGOE · Miwa YOKOGAWA · Shigeru OHTO · Yuji ORIHASHI · koshi YAMAMOTO

R18. Geoinformatics and its application

R18-P-1

A Dodecahedral Paper Work as Globe designed by the Generic Mapping Tools and its application to the Outreach Activity of Earth Science **Shunji TOJO**

R18-P-2

Fault topographies in Southwest Japan observed by near-infrared satellite 3D images **Kisei KINOSHITA** · **Masaya SAKAMOTO**

R18-P-3

Distribution of geological information database **Tatsuya NEMOTO** · Shinji MASUMOTO · Susumu NONOGAKI · Venkatesh RAGHAVAN

R18-P-4

New functions of the reference database to the strata in Japan **Toshimitsu IWAYA** · Makoto SAITO · Yoshiharu NISHIOKA · Kazuki NAITO · Shinji TAKARADA

R18-P-5

Development and Publishing of the Seamless Geological Map

of Japan for Offline Use **Yoshiharu NISHIOKA** · Kaoru KITAO

R24. Nuclear energy and geological sciences

R24-P-1

Subsurface geological maps of the Japanese islands Tsuneari ISHIMARU · **Kazuo KOBORI** · Koji UMEDA · Noboru NAKATSUKA

R24-P-2

Shear sense inversion of small crush zones observed in the Kojyaku granite **Koji SHIMADA** · Tsuneari ISHIMARU · Shigeru SUEOKA · Ken-ichi YASUE · Masakazu NIWA · Koji UMEDA

R24-P-3

Assessment of fault activity using fault rocks: The case of the Itoigawa-Shizuoka Tectonic Line Active Fault System **Tatsuro FUKUCHI** · Mami TANAKA · Takuto KITTA · Noboru IMAI

R24-P-4

Geological predictions and their uncertainties for long-term isolation of radioactive waste **Koji UMEDA** · Ken-Ichi YASUE · Tsuneari ISHIMARU

----- 16:00-17:00 -----

OR. JGS Outreach Session

(13:30-14:30, ~~17:00-18:00~~ @Robby in front of Room 1: 111)

OR-P-1

Evolution of the Kumagawa River flowing in southern part, Kumamoto Prefecture and its controlling factors. **Kosei TERADA** · Shoma FUKUDA · Hitoshi TANAKA

OR-P-2

Excavation and exhibition of the early Pleistocene Katanoyama fossils **Kimihito UCHIMURA** · Kazuhiko KANO · Hiroyuki OTSUKA

OR-P-3

Examples and their Characteristics of Trans-Scientific Instance around Geology **Hiroyuki ARATO** · Teruyo ARATO

OR-P-4

The origin of the stone walls in the Htsujisaru and Tatsumi tower traces of the Yamagata Castle **Yukiko OHTOMO** · Haruka OKUYAMA · Jin SAITO

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