

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

■ 15 Sept. (Mon) Core time 13:00-14:20 (2nd Gymnasium)

T2. Cultural geology

T2-P-1

Cultural geology of Kagoshima Prefecture **Wakana NAKAMURA** · Hisashi SUZUKI

T2-P-2

Geologic and petrologic character and use of monument stone 'Inai-ishi' quarried from Ishinomaki area, Miyagi Prefecture, northeast Japan **Naoki TAKAHASHI** · Takuya AKASHI

T3. Green Tuff renaissance

T3-P-1

Try to capture "Green Tuff alteration" in the reactive transport simulation **Naoto TAKENO**

T4. Detrital zircon chronology: its future and further applications

T4-P-1

Depositional age and tectonic setting, and geologic structure of the formations comprising of the Kuncha nappe **Wataru KOBAYASHI** · Harutaka SAKAI · Hideki IWANO · Tohru DANHARA · Takafumi HIRATA

R5. Regional geology and stratigraphy

R5-P-1

Significance of Permian to Triassic zircon from the boundary zone between the Nedamo Terrane and the North Kitakami Terrane **Takayuki UCHINO** · Shigeru OTOH

R5-P-2

The Permian and Jurassic strata around the border between Niigata and Fukushima prefectures **Atsushi NODA** · Motohiro Tsuboi · Toshiyuki KURIHARA · Takayuki UCHINO

R5-P-3

Geology of the Takahagi and Otsu district (Quadrangle Series, 1:50,000) **Yutaka TAKAHASHI** · Yukio YANAGISAWA · Hisao ANDO

R5-P-4

Depositional environment of Miocene sedimentary basin distributed around Hitachiomiya area, northern Ibaraki **Yumeki HOSHIKA**

R5-P-5

Chichibu Composite Terrane of the Urayama area, Chichibu city, Saitama Prefecture in the eastern Kanto Mountains, SW Japan (Part 3) **Kiyoshi KATO**

R5-P-6

Regional correlation of the basement complex of Sadogashima Island using zircon chronology **Yasutaka HAYASAKA** · Kosuke KIMURA · Aya KATSUBE

R5-P-7

Low-angle Faults discovered in Matsumoto basin, Nagano,

central Japan **Karin ANDO** · Haruna CHIBA · Yuka YAMAGISHI · Tsutomu OTSUKA

R5-P-8

Reconstruction of sedimentary environment based on sedimentary facies analysis of the Hokusetsu Subgroup, eastern Aichi prefecture. **Ayumi SUZUKI** · Makoto TAKEUCHI

R5-P-9

Preliminary result on the timing of remanent magnetization acquisition of the Nohi rhyolite in eastern Gifu Prefecture **Kazuki SAKO** · Hiroyuki HOSHI

R5-P-10

Early Permian radiolarians from siliceous deposits in the Tanto area, Hyogo Prefecture, Southwest Japan **Yoshiaki SUGAMORI**

R5-P-11

Permian radiolarian fossils from the Tatsuno Group (Maizuru Zone), Kasai City, Hyogo Prefecture, Southwest Japan **Shizuo TAKEMURA** · Atsushi TAKEMURA · Tamao YUMIOKA

R5-P-12

Geology of the Ieshima Islands, Hyogo Prefecture, southwest Japan **Daisuke SATO**

R5-P-13

Radiolarians from the Nyunokawa Formation in the Shimanto Belt, Kii Peninsula, Japan **Toshiya YAMAMOTO** · Takanori BESSHO · Junzo TANIGUCHI

R5-P-14

Detrital zircon geochronology of the Nariwa Group in the Akiyoshi Belt **Yoshikazu KOUCHI** · Hokuto OBARA · Shigeru OTOH · Koshi YAMAMOTO

R5-P-15

Manganese carbonate nodule including Permian radiolarians in the Nishi Group, Akiyoshi Belt **Takanori NAKAGAWA** · **Koji WAKITA**

R5-P-16

Geology and age constraint of the Nishino-omote Formation, Kumage Group, in the northern part of Tanegashima Island, Kagoshima Prefecture, SW Japan **Akihide KIKUKAWA** · Nobuhiro KOTAKE · Koji KAMEO

R5-P-17

Revised stratigraphic division and accretion-metamorphic process of pre-Neogene basement rocks in the northern Okinawa Jima Island **Satoshi NAKAE**

R5-P-18

Paleoceanographic evolution of Miocene to Pliocene mud sea in the Ryukyus based on calcareous nannofossil assemblages **Ryo IMAI** · Tokiyuki SATO · Yasufumi IRYU

R5-P-19

Stratigraphy and geologic age of the Ryukyu Group on Tarama-jima, Ryukyu Islands, Japan **Moe OHZEKI** · Ryo

IMAI · **Hideko TAKAYANAGI** · Yasufumi IRYU

R5-P-20

Foraminiferal faunas and depositional environment of the Lower Permian Kiu Lom Formation distributed in the Lampang area, Northern Thailand **Akira MIYAHIGASHI** · Katsumi UENO · Thasinee CHAROENTITIRAT · Yoshihito KAMATA

R5-P-21

Stratigraphy and radiolarian age of pelagic sediments in the Wadi Hilti area of the Oman Ophiolite **Yumi AGUI** · Kousuke HARA · Toshiyuki KURIHARA

R5-P-22

Late Cretaceous radiolarians from the Zabyat Formation in the Wadi Jizzi area, Oman Ophiolite **Toshiyuki KURIHARA** · Kousuke HARA · Rina HAYASHI · Yumi AGUI

R7. Stratigraphic correlation and chronostratigraphic scales

R7-P-1

Upper Pliocene to lower Pleistocene nannofossil datums recognized in the Mera and Minamiasai Formations in the southernmost part of the Boso Peninsula, central Japan **Koji KAMEO** · Makoto OKADA

R7-P-2

Revised Neogene diatom biostratigraphy ODP Site 887, the Gulf of Alaska in Northeast Pacific **Akemi FUKUMURA** · Itsuki SUTO

R10. Origin of carbonate rocks and related global environments

R10-P-1

Internal structure of the nodules occurring in the Shimanto sedimentary rocks, Muroto Peninsula, Shikoku **Ryota YAMAMOTO** · Mutsuko INUI · Tadahiro SHIBATA

R10-P-2

Stable carbon and oxygen isotope compositions of dawsonite from the Izumi Group, in the northern Izumi Mountains **Kazuma SEIKE** · Yuri KIMURA

R10-P-3

Sponge-like features found in "Ediacaran thrombolite" in central Bahia, Brazil **Akihiro KANO**

R10-P-4

The origin of hot spring water and changes in sedimental facies along a flow path in Sipoholon hot spring, Sumatra Island **Chizuru TAKASHIMA** · Misa HIRANO · Tomoyo OKUMURA · Akihiro KANO

R10-P-5

A hot spring stromatolite formed by sulfur-oxidizing bacteria and Chloroflexus **Tomoyo OKUMURA** · Chizuru TAKASHIMA · Misa HIRANO · Akihiro KANO

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R10-P-6

Stalagmite oxygen isotope profile in central Mie Prefecture during the last 14,000 years **Taiki MORI** · Akihiro KANO · Tomomi SONE · Kenji KASHIWAGI

R11. Sedimentary facies and processes

R11-P-1

Automatic identification of varve/turbidite successions using image analysis **Hana SASAKI** · Yoshiro ISHIHARA

R11-P-2

An attempt to infer the location of deposition of fluvial gravels by using multiple regression analysis **Michiharu GOTO** · Michio UNEDA · Yuki IMAMURA · Yoshiko MASUBUCHI

R11-P-3

Deformation of dune shape using a numerical cellular model **Atsunari KATSUKI**

R11-P-4

The ordered arrangement of bedforms formed at river and sea floor **Takahiko SAKAMOTO**

R11-P-5

Sub-horizontal and wavy stratification of massive turbidites visualized by high-precision fabric mapping **Hidenori SHIMOKAJI** · Yuichiro MIYATA

R11-P-6

"Sedimentary facies analysis" of turbidite succession based on borehole-log data **Yoshiro ISHIHARA** · Hana SASAKI · Osamu TAKANO

R11-P-7

Relationship between sedimentary facies and sea level change at the Pleistocene sequence boundaries in the U1352B cores of IODP Expedition 317 in offshore New Zealand **Tokinori TAKEUCHI** · Eri ICHINOSE · Yuki KOBAYASHI · Koichi HOYANAGI

R11-P-8

The lowstand fan deposits of Basal Miyazaki Group (Middle Miocene) along the Aburatsu Bay Coast in Southern Miyazaki Prefecture. **Shigetoshi GOTOU**

R11-P-9

Sequence stratigraphy of the prograding shelf edge: an example of the Miocene Ogawa Formation in Nagano prefecture, Central Japan **Megumi SEKI** · Koichi HOYANAGI

R11-P-10

Miocene and Pliocene depositional systems in Komiji and Takafu synclines, northern part of Nagano Prefecture. **Masahiro TAKIKAWA** · Koichi HOYANAGI

R11-P-11

Sedimentary environment and depositional process of historical two major floods at archaeological sites in Shiozaki on the Chikuma-gawa River, Nagano Prefecture, Central Japan **Yui ICHIKAWA** · Koichi HOYANAGI

R11-P-12

Shallow marine tsunamiite of the Miocene Tatsukushi Formation, Misaki Group, SW Japan, and its process of deposition. **Satoru IMAI** · Masakazu NARA

R11-P-13

Tsunami deposits in Okushiri Island, southwestern Hokkaido, Japan **Yoshihiro KASE** · Keiichi HAYASHI · Kenji NISHINA · Gentaro KAWAKAMI · Ken'ichi KOSHIMIZU · Yasuhiro TAKASHIMIZU · Tsumoru SAGAYAMA · Tatsuya WATANABE · Ryo TAKAHASHI · Wataru HIROSE · Sunao OHTSU · Satoshi ISHIMARU · Hiroshi FUKAMI · Jun TAJIKA

R11-P-14

Seismic and flood deposits obtained from the Suruga Bay, central Japan **Naohisa NISHIDA** · Ken IKEHARA

R11-P-15

Sedimentological formation factors for new islands which appeared in the coastal area of the isolated island, in East Java, Indonesia **Masahiko YAGI** · Haruhiko ARISAKA · Yoshihiro UEDA

R15. Tectonics

R15-P-1

Structural geology on metamorphic rocks and tonalites from the Kamiutabetu-gawa area in the southernmost part of the Hidaka Metamorphic Belt, Hokkaido, Japan **Hironobu SAKURAI** · Tsuyoshi TOYOSHIMA

R15-P-2

NE-vergent shortening of the Lower Pliocene Anno Formation in the Aikawa area, Boso Peninsula, Japan **Akihiro KOKADO** · Katsushi SATO · Atsushi YAMAJI

R15-P-3

Paleostress analyses using the orientation distribution of veins and calcite twins **Aiko TAKADA** · Takuto KANAI · Hideo TAKAGI

R15-P-4

Paleostress analysis using calcite twin in amygdalaes of the pseudotachylite of the Asuke Shear Zone **Takuto KANAI** · Hideo TAKAGI

R15-P-5

Fault rock analyses along the Byoubuyama fault and the cross-cutting relationship to the Akou fault, central Japan. **Takuma KATORI** · Kenta KOBAYASHI

R15-P-6

Study of geological structure and pre-Quaternary kinematic history of the Okamura Fault, the east part of Ehime Prefecture. **Yasu'uchi KUBOTA** · Toru TAKESHITA

R15-P-7

Tectonic provinces of the Northern Fossa Magna region depicted by means of the crustal movement and seismic activity **Yuki IMAI** · Akira TAKEUCHI

R15-P-8

Ground penetrating radar profiling across potentially active faults and a surface rupture after the 11 April 2011 earthquake, Futatsuya and Itozawa fault zones respectively, southern Fukushima, NE Japan **Haruo KIMURA** · Hiroyuki TSUTSUMI · Naotsugu HIGASHIMARU · Daisuke ISHIMURA

R15-P-9

Features of the subsurface geological structures formed by strike-slip faults in Yatsushiro Bay **Masatoshi YAGI** · Izumi SAKAMOTO · Ryousuke HIRAYAMA · Kenji NEMOTO · Mikio FUJIMAKI

R15-P-10

Active faults and subsurface structure in Yoron Island, Ryukyu Islands, Japan **Yujin KITAMURA**

R15-P-11

Numerical simulation of rock fracture using two-dimensional discrete element method (2D-DEM) **Yuri ARAKI** · Takamoto OKUDAIRA

R20. Engineering geology and non-tectonic structures

R20-P-1

The volume expansion and mobilization of Ti by the weathering **Eiji NAKATA** · Tadashi MIWA · Yuji TORIGOE · Takahiro NAKAMITSU · Masahiro CHIGIRA

R20-P-2

SEM observation and XRD analysis on the active fault surface **Shiro TANAKA** · Takao KAMACHI · Kotaro AIYAMA

R20-P-3

Geologic structure of ridge-top depression to the east of Kanmuriyama Pass, Gifu-Fukui Prefecture boundary **Naoya IWAMOTO** · Satoru KOJIMA · Ryota NIWA · Katsumi HATTORI · Heitaro KANEDA · Tomohiro YAMAZAKI · Keitaro KOMURA · Tomoyuki OHTANI

R20-P-4

Rock Mass classification using three types of hammers at the quarry sites of Gokayama Dam **Makoto OHKOUCHI** · Atsushi TOMINOMORI · Tomohiro NISHI

R20-P-5

Experiment for electrical resistivity measurement with the two-electrode method in AC circuit **Kentaro HATAKEDA** · Weiren LIN · Takehiro HIROSE · Wataru TANIKAWA · Yohei HAMADA · Osamu TADAI

R20-P-6

Assessment the appropriateness of estimated tsunami scale evaluated on height of event deposit along the Okhotsk Sea coast of northeast Hokkaido **Kenji NISHINA** · Gentaro KAWAKAMI · Wataru HIROSE · Tatsuya WATANABE · Yoshihiro KASE · Satoshi ISHIMARU · Sunao OHTSU ·

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Takahiro SUZUKI · Makoto TAMURA · ken'ichi KOSHIMIZU · Ryo TAKAHASHI · Jun TAJIKA

R20-P-7

Applying Spatial Analysis in Landslide Area based on 1:50,000 Digital Geological Map **Daisaku KAWABATA**

R22. Quaternary geology

R22-P-1

Natural radionuclides and activity concentrations in the calcareous and ferruginous deposits of hot springs in Akita and Aomori Prefecture **Osamu NISHIKAWA** · Isao TAKASHIMA

R22-P-2

Lake-level change history of Lake Biwa, Japan during the last 50ka **Yoshio INOUCHI** · Kazuyoshi · YAMADA Yasu h umi · SATOGUCHI · Hiroki HAGA · Ryouma HAYASHI

R22-P-3

Reexamination of changes in indian monsoon and paleoenvironment based on the composition analysis of microfossils in Paleo-Kathmandu Lake **Ryoko SETOGUCHI** · Misa SUGIMOTO · Rie FUJII · Harutaka SAKAI

R22-P-4

A temporal change of transboundary air pollution based on analysis of spheroidal carbonaceous particles in lake sediments sampled in Japan, China, Korea **Masaki HASHIMOTO** · Shintaro MURAI · Tomomi YOSHINO · Ryosuke SATO · Akiko KITASE · Hiroshi MORIWAKI · Hideo YAMAZAKI · Kazuo KAMURA.

R22-P-5

On temporal changes of environmental pollution based on analysis of spheroidal carbonaceous particles and heavy metals with bottom sediments in Tokyo Bay **Shogo KOYA** · Moeko HIGASHI · Kazuo KAMURA · Hideo YAMAZAKI

R22-P-6

Magnitude and duration of the Yayoi regression: Examination from the Alluvium in the Tonegawa Lowland, Kanto Plain, central Japan **Susumu TANABE** · Kazuaki HORI · Rei NAKASHIMA

R22-P-7

An implication of difference in a tephra horizon within the marine clay member **Takeshi MAKINOCHI**

R22-P-8

Absorption of heavy metal ions on volcanic ash soils distributed in the eastern foot of the Yatsugatake mountain chain **Tatsuyuki ARAI** · Tomomi OTA · Masanori KURIHARA · Kazuo KAMURA

R22-P-9

Thermal history analysis using UV-TL of active fault gouge **Kazumasa MIURA** · Yoshihiro GANZAWA · Noriko HASEBE

R22-P-10

Late Pleistocene and Holocene Faulting of the Central Part of the Atera Fault Zone in the Futawatari area, Eastern part of Gifu Prefecture, Central Japan **Daisuke HIROUCHI** · Ken-ichi YASUE · Ryosuke DOKE · Yoshiki SATO · Nobuhiko SUGITO · Nobuhisa MATSUTA

R22-P-11

Study on Identification of Event based on Consecutive Radiocarbon Dating of Black Soil along Active Fault **Ken-ichi YASUE** · Daisuke HIROUCHI · Akihiro MATSUBARA · Yoko KOKUBU

R23. History of the Earth

R23-P-1

LA-ICP-MS dating of detrital zircons from the Kumasi Group, Birimian Greenstone belt, Southwest Ghana **Satoshi YOSHIMARU** · Shoichi KIYOKAWA · Takashi ITO · Yukiyasu TSUTSUMI · Frank K NYAME · George M TETE

R23-P-2

In-situ iron isotope analysis of pyrite and organic carbon/nitrogen isotope ratios in the Middle Proterozoic sediments from McArthur Basin, Northern Australia **Kazumi YOSHIYA** · Yusuke SAWAKI · Manambu NISHIWA · Tsuyoshi KOMIYA · Takeshi HIRATA · Shigenori MARUYAMA

R23-P-3

Nd isotope geochemistry of Archaean Banded Iron Formations in the Chitradurga Schist Belt, Dharwar Craton Southern India **Kentaro KOINUMA** · M. SATISH-KUMAR · Kaoru MISHIMA · Yuichiro UENO · Tomokazu HOKADA

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