

Contents of Journal of Geography, Vol. 114, 2005

Review Articles

Title	Author	Number	Page
Environmental Assessments of Ariake Bay during the Past 100 Years Based on Marine SedimentsHisayoshi YOKOSE, Noriyuki MOMOSHIMA, Kazumi MATSUOKA, Yoshitaka HASE and Eiichi HONZA		1	1 20
Development Trends and Research Subjects of Mining Cities in China.....Yungang LIU		4	507 524
Characteristics of Hyperpycnal Flow and its Deposits as an Innovative Factor for the Turbidity Paradigm.....Yu SAITOH, Toru TAMURA and Fujio MASUDA		5	687 704

Original Articles

Title	Author	Number	Page
Tectonic Landform and Holocene Faulting History of the Sekidosan Fault along the Southeastern Margin of the Ouchigata Plain, Central JapanNobuhiko SUGITO and Hiroyuki TSUTSUMI		1	21 40
Sediment Production by Echinometra mathaei in the Shallow Littoral Zone of Coral Reefs, the Ishigaki Island, Ryukyus, Japan.....Rintaro SUZUKI		1	41 57

Special Issue on " Frontiers of Geomagnetic and Paleomagnetic Research "

Introduction to the Special Issue on Frontiers of Geomagnetic and Paleomagnetic ResearchMasaru KONO and Toshitsugu YAMAZAKI		2	121 122
Development of Numerical Simulation of the Earth and Planetary Dynamos(Original Article)Futoshi TAKAHASHI		2	123 131
Fluid Motion in the Core Estimated from the Earth's Magnetic Field(Review Article)Masaki MATSUSHIMA		2	132 141
Geodynamo and Mantle Dynamics (Review Article).....Yozo HAMANO, Takatoshi YANAGISAWA and Yasuko YAMAGISHI		2	142 150
Geomagnetic Paleointensity Fluctuation Revealed from Marine Sediment Cores : A Perspective as the Part of Earth System(Review Article).....Toshitsugu YAMAZAKI		2	151 160
Progress in Paleointensity Determination Methods and a Possible Revision of Time-averaged Geomagnetic Field Intensity for the Last Five Million Years : Strong Dipole Moment of the Current Geodynamo?(Review Article).....Yuhji YAMAMOTO and Hideo TSUNAKAWA		2	161 173
Recurrent Geomagnetic Excursions : A Review for the Brunhes Normal Polarity Chron (Review Article).....Hirokuni ODA		2	174 193
Geomagnetic Field Variations at the Beginning of the Polarity Reversal(Original Article)Nobutatsu MOCHIZUKI and Hideo TSUNAKAWA		2	194 200
Morphology and Variation of Geomagnetic Field : Time-averaged Field and Paleosecular Variation(Review Article).....Tadahiro HATAKEYAMA and Hidetoshi SHIBUYA		2	201 211
The Earth's Magnetic Field during the Archean (Review Article).....Arata YOSHIHARA		2	212 222
Pseudotachylyte and Chondrule as a Reliable Recorder of Ancient Magnetic Field (Review Article).....Norihiko NAKAMURA and Minoru UEHARA		2	223 238
Marine Magnetic Anomalies Connected to Paleomagnetic Intensity Variation (Review Article).....Michiko YAMAMOTO and Nobukazu SEAMA		2	239 249
Micromagnetic Modeling and its Implications for Paleointensity Studies (Review Article)Koji FUKUMA		2	250 257

Probing and Correcting the Nonideal Behavior of Magnetic Grains during Thellier Paleointensity Experiment : A New Method of Paleointensity Determination (Original Article) Zhong ZHENG, Xixi ZHAO and Naoko UENO	2	258 272
Geomagnetic Polarity Time Scale : Its Present State and Future Improvements (Review Article) Masayuki HYODO	2	273 283
Environmental Magnetism : A Brief Review (Review Article) Masayuki TORII	2	284 295
Magnetic Petrology : Applications to Volcanology (Review Article) Takeshi SAITO	2	296 308
Kazuto KODAMA : Integrated Ocean Drilling Program and Paleomagnetism Ongoing (Reports)	2	309 315
<hr/>		
Special Issue on “ Studies in Earth and Environmental Sciences at the Beginning of the 21st Century ”		
Preface : The Serial Number 1000 Special Issue Shoichi OSHIMA and Junzo KASAHARA	3	321 322
Interior of the Solid Earth		
Earth Structure Revealed by Seismology Tatsuhiko HARA	3	323 337
Minerals and Rocks in the Earth's Interior Eiji OHTANI	3	338 349
Plate Tectonics and Magma Genesis		
Plate Motions in the World Tetsuzo SENO	3	350 366
Seismic Structure and Metamorphism of the Plate Boundary Zone Mitsuhiro TORIUMI and Junzo KASAHARA	3	367 384
Generation of Magmas in the Upper Mantle : Recent developments in Studies on Mantle Materials Kazuhito OZAWA	3	385 409
Global Environmental Change during Geological Age and Earth's Biosphere		
History of Life? : trends in research Yukio ISOZAKI	3	410 418
Highresolution Stratigraphy : “ Years, Months, Days, and Hours ” Detected from Strata Fujio MASUDA	3	419 433
Expanding Subsurface Biosphere Kenji KATO and Kazuyo NAGAOSA	3	434 444
Climate and Environment Signals Recorded in Polar Ice Sheets Yoshiyuki FUJII	3	445 459
Recent Global Environmental Change		
Climate Variations from the Viewpoint of Seasonal to Multidecadal Scale Shuji YAMAKAWA	3	460 484
Ocean General Circulation and Climate Change Kimio HANAWA	3	485 495
Urban Heat Island Phenomena and their Causing Factors : A Case Study of Tokyo Metropolis Takehiko MIKAMI	3	496 506
<hr/>		
Industrialized Vegetable Production, Salad Processing, and Agribusiness in Salinas Valley, California Isao SAITO and Noritaka YAGASAKI	4	525 548
Tephrochronological Study of the AD1663 Eruption of Usu Volcano, Western Hokkaido, Northern Japan Yugo NAKAMURA, Akiko MATSUMOTO and Mitsuhiro NAKAGAWA	4	549 560
Study on American Whaling by Sailing Vessels in the 19th Century: Consideration of Whaling Manufacture in New England Akira OSAKI	4	561 578
Rural Restructuring and its Sustainability in Bavaria Germany Norihiro OBARA	4	579 598
<hr/>		
Using Landsat TM/Band6 and Temperature Data of AMeDAS to Study the Changes Observed in the Expanding Heat Island of Tokyo Metropolis Ippei HARADA and Akihiko KONDOH	5	705 723
Surface-faulting History of the Daguchi Fault, North of Lake Biwa, Southwest Japan, inferred from Pit Excavations on a Mountain Slope Heitaro KANEDA, Tsutomu INOUE, Masaaki KANEHARA and Keiji TAKEMURA	5	724 738
A Method for Retrieving Sea Surface Temperature in Local Regions Using NOAA AVHRR : A Case Study in Japan Sea Yoichi KAGEYAMA and Makoto NISHIDA	5	739 750

Mode and Rate of Soil Creep by Soil Horizons: Device of a Monitoring Method and Its Application to Forest-covered Hillslopes in Humid Temperate Climate			
.....Takeshi MATSUBAYASHI and Toshikazu TAMURA	5	751	766
" The Politics of Place "on the Yokota Air Force Base in Fussa City.....Tomokazu ARAI	5	767	790
Geological Development of the West Sea Area of the Noto Peninsula District in the Neogene Tertiary to Quaternary, Central Japan.....Heideki KATAGAWA, Masaaki HAMADA, Susumu YOSHIDA, Hiroshi KADOSAWA, Akira MITSUHASHI, Yoshiteru KONO and Yoshihiro KINUGASA	5	791	810

Special Issue on " Recent Development in Rock Physics : Basic Studies and Applications to Earth Sciences and GeoEngineering "

Forward : Some Remarks on the Studies of Rock Physics.....Yoshiaki IDA	6	831	832
Recent Development in Rock Physics Basic Studies and Applications to Earth Sciences and GeoEngineering : Objectives and Overview Osamu SANO and Osamu NISHIZAWA	6	833	836
Electrical Properties of Rocks : A review(Review Article)Tohru WATANABE	6	837	861
Estimation of Water Volume Fraction in the Crust from Electrical Conductivity Structure (Original Article).....Makoto UYESHIMA	6	862	870
Permeability and Electrical Conductivity of Partially Molten Material(Review Article) Shin-ichiro TAKASHIMA and Kei KURITA	6	871	884
Transport Properties of Rock with Applications to Reservoir Engineering(Review Article)Tsuneo ISHIDO	6	885	900
A Review of the Mechanical Properties of Solid-liquid Composites(Review Article)Yasuko TAKEI	6	901	920
Seismic Wave Velocities in Rocks I : Modeling of Heterogeneous Media and their Elastic Wave Velocities(Review Article).....Osamu NISHIZAWA	6	921	948
Seismic Wave Velocities in Rocks II : Velocity Anisotropy in Metamorphic Rocks Caused by Preferred Orientations of Minerals and Cracks(Review Article) Osamu NISHIZAWA and Kyuich KANAGAWA	6	949	962
Methods for Measurements of Velocities of Elastic-waves in Rocks under High-temperature and High-pressure Conditions(Review Article).....Keigo KITAMURA and Koji MASUDA	6	963	974
Interpretation of a Seismic Reflection Profile Across a Metamorphic Belt based on Acoustic Impedance Measurements of Exhumed Metamorphic Rocks : an Example of the Hidaka Metamorphic Belt(Review Article)Kyuichi KANAGAWA, Tanio ITO and Osamu NISHIZAWA	6	975	987
Application of Rock Physics Study to Seismic Monitoring of Injected CO ₂ in Geological Sequestration(Review Article) Ziqiu XUE	6	988	1002
Measurement Methods of Contemporary Stress Field and Rock Mechanics(Review Article) Osam SANO	6	1003	1021
Rock Anelasticity Studies at High Pressure and Temperature(Review Article).....Hiroki SATO	6	1022	1031
Imaging of Rock Pores by X-ray Computed Tomography(Review Article)Yoshito NAKASHIMA	6	1032	1043
Modeling of Volcano-hydrothermal System of White Island Volcano, New Zealand(Report)Yuji NISHI, Nobuo MATSUSHIMA and Tsuneo ISHIDO	6	1044	1047

Short Article

Title	Author	Number	Page
Geomorphological Development Caused by Landslides in the Northern Area of Mt. Shiroumadake, the Hida Mountains, Japan.....Go SATO and Yoshihiko KARIYA		1	58 67
Depositional Environmental Changes over the Past 30,000 Years at Hosoiike Moor, Okayama Prefecture, Western Japan.....Toshiro NARUSE, Nobuyuki SUZUKI, Nobuo INOUE, Shin TOYODA, Takaharu MINOWA, Hiroshi YASUBA and Shin'ichi YATAGAI		5	811 819

On the Pakistan Earthquake on October 8, 2005.....	Tetsuzo SENO	5	820 823
--	--------------	---	---------

Notes

Title	Author	Number	Page
Biotope Map of the Southern Pantanal in Brazil: The Case of Fazenda Bai'a Bonita	Hiroaki MARUYAMA and Takaaki NIHEI	1	68 77

Prompt Report

Title	Author	Number	Page
Field Survey of the 2004 Off-Sumatra Earthquake Tsunami around the Banda Aceh, Northern Sumatra, Indonesia.....	Takanobu KAMATAKI and Yuichi NISHIMURA	1	78 82

Reports and Subsidiary Research in 2004

Fisson Track and K-Ar Ages of Two Middle Early Pleistocene Pyroclastic Flow Deposits in the Omine Zone, Northern Fossa Magna Region, Central Japan.....	Takeyuki UEKI	4	623 625
Drastic Changes of the Paleoenvironments Identified in the Holocene Sediments Cored from Lake Harutori-ko, Kushiro City on the Relation with the Great Earthquake Tsunamis along the Kuril Subduction Zone.....	Yuji SOEDA and Futoshi NANAYAMA	4	626 630
Tephrochronological Study on Plio-Pleistocene History in Central Japan : Chronological Studies for the Hida Mountains Uplift with the Use of Correlation of Widespread Tephra Layers.....	Itoko TAMURA	4	631 637
High-resolution Analysis of Late Paleozoic Early Mesozoic Variability of Paleoceanographic System Recorded in Bedded Chert Sequence in the Inner Zone of Southwest Japan	Ryuji TADA, Satoko WATANABE, Yuichiro KASHIYAMA, Eiichi TAJIKA, Takuya KATO, Shinji YAMAMOTO, Yuko ISOZAKI and Hironobu SAKUMA	4	638 642
Physiographic Environments of Periglacial Rubble Slopes Composed of Large Blocks in the Tianshan Mountains, Western China.....	Hiroshi MATSUYAMA, Shinjiro KURODA, Miyuki KANIE, Shuji IWATA and Kader KEZER	4	643 649
Paleoecology of Acesta (Bivalvia) in the Japanese Cenozoic	Yasuo KONDO and Naoki KIKUCHI	4	650 654
19 th Himalaya-Karakoram-Tibet Workshop : HKT19	Kazunori ARITA	4	655 658
A Report of the 1st International Workshop on ' Active Monitoring in the Solid Earth Geophysics '.....	Kayoko TSURUGA, Katsuro OGAWA, Hiromichi NAGAO, Yoko HASADA, Naoyuki FUJII, Junzo KASAHARA and Mineo KUMAZAWA	4	659 664

Reports on the 200th Earth Science Club Lectures and Summary of the Earth Science Club Lecture

Title	Author	Number	Page
200th Earth Science Lecture Anniversary Session and Reception	Earth Science Club	1	86 112
Earth's Climate in the Present View from the Past.....	Fujio MASUDA	1	87 90
Global Climatic Variations for the Last 1000 Years and Their Prospects in Future	Takehiko MIKAMI	1	91 96
Tectonics on the Uplift of the Himalayan Range.....	Harutaka SAKAI	1	113 117
Fascination of History of Earth Sciences.....	Michiko YAJIMA	4	609 613
Increase of Renewable Energy Usage and Turning to a Sustainable Civilization	Hiroaki NIITSUMA	4	614 618
When and How Dinosaurs Evolved into Birds?	Makoto MANABE	4	619 622

Pictorials

Title	Author	Number
Biotope Map of the Southern Pantanal in Brazil.....	Hiroaki MARUYAMA and Takaaki NIHEI	1
ASTER Land Cover Classification Map of Banda Aceh after the Sumatra Tsunami Strike	Masatane KATO, Yuko FUKUI and Atsuo YOSHINO and ERSDAC	1
Tsunami Field Survey of the 2004 Off-Sumatra Earthquake in Banda Aceh, Northern Sumatra, Indonesia.....	Takkanobu KAMATAKI and Yuichi NISHIMURA	1
Results of the Numerical Simulation of the Mantle Convection: Temporal Variations of the Convection Pattern and the Surface and CMB Heat Flow during One Cycle of the Inter- mittent Convection.....	Yozo HAMANO, Takatoshi YANAGISAWA and Yasuko YAMAGISHI	2
Micromagnetic Structures of Magnetite Grains	Koji FUKUMA	2
Magnetic Lines of Force outside the Earth's Core	Masaki MATSUSHIMA	2
Where is the Boundary between the Dinosaurs and Birds?	Motomaro SHIRAO and Makoto MANABE	4
Digital Elevation Models of the Landslides Triggered by the 2005 Earthquake in Pakistan Using ASTER Image.....	Daisaku KAWABATA and Ryosuke NAKAMURA	5
Imaging of Rock Pores by X-ray Computed Tomography.....	Yoshito NAKASHIMA	6
Pressure Transient Test.....	Tsuneo ISHIDO	6
Modeling of Volcano-hydrothermal System of White Island Volcano, New Zealand	Yuji NISHI, Nobuo MATSUSHIMA and Tsuneo ISHIDO	6
2-D Water Volume Fraction Cross Sections for HSi (5a: upper) and HSc (5b: lower)	Makoto UYESHIMA	6
Wave Fields in Random Heterogeneous Media.....	Osamu NISHIZAWA	6

Front Cover

Title	Author	Number
Inundated Flood Plain of the Capivari River in the Rainy Season, the Brazilian Pantanal	Hiroaki MARUYAMA	1
Distribution of Magnetic Lines of Force within the Outer Core and Axial Vorticity resulted from a Three-dimensional MHD Simulation of the Geodynamo	Futoshi TAKAHASHI	2
Geysers of Yellowstone National Park(Wyoming, USA).....	Motomaro SHIRAO	3
Tyrannosaurus rex Osborn, 1905.....	Motomaro SHIRAO and Makoto MANABE	4
Stereoscopic Image Pair of the Landslides Triggered by the 2005 Earthquake in Pakistan	Minoru URAI	5
Ancient continental lower crust exposed in the Ivrea Zone, northwestern Italy	Kyuichi KANAGAWA	6