

## Contents of Journal of Geography, Vol. 115, 2006

### Review Article

Title	Author	Number	Page
Mapping Non-asperities and Continuous, Active Monitoring of the Interior of the Earth's Crust.....	Kayoko TSURUGA, Junzo KASAHARA, Hitoshi MIKADA, Koshun YAMAOKA and Naoyuki FUJII	1	51 71

### Original Articles / Special Issues

Title	Author	Number	Page
Stratigraphy and Source Caldera of Pyroclastic Flow Deposits During the Latest Pliocene to Middle Pleistocene in the Southeastern Foot Area of the Hakkoda Caldera, Northeast Japan .....	Takashi KUDO, Takeyuki UEKI, Shinji TAKARADA, Hisashi SASAKI and Minoru SASAKI	1	1 25
Chronosequential Analysis of Eutrophication and Heavy Metal Pollution Recorded in Sediments of Lake Teganuma, Chiba Prefecture, Japan.....	Takaomi HAMADA, Tetsuo MOTOHASHI, Makiko WATANABE and Hiroshi ITO	1	26 40
Three-Dimensional Structures of the Latest Pleistocene to Holocene Sequence at Nobi Plain, Central Japan.....	Masaaki YAMAGUCHI, Toshihiko SUGAI, Takashi OGAMI, Osamu FUJIWARA and Hiroo OHMORI	1	41 50
<hr/>			
Reconstruction of the Biome Pattern since 20,000 yr BP Using Biomization Method ( I ) Kyushu Island .....	Katsuya GOTANDA and Hitoshi FUKUSAWA	2	125 135
Dissolution Characteristics of Limestone in Laboratory Experiments.....	Yasuhiko TAKAYA, Takashi HIROSE, Hisashi AOKI and Yukinori MATSUKURA	2	136 148
Asama Eruption of 2004: Field Investigations and Risk Communication through an Internet Forum.....	Yukio HAYAKAWA, Yoshinori MAEJIMA, Tadayuki MIYANAGA, Takayuki NAGAI, Shigeo Sato YUASA and Masayuki ARAI	2	149 171
2000 Miyakejima Eruption Changing Countermeasures for Volcanic Gases .....	Hajime ISHIHARA	2	172 192
Geographical Distribution of Time at Which Minimum Temperatures are Recorded during Early Winter Morning in Hokkaido and Tohoku Districts, Japan.....	Akira CHIBA	2	193 207
Geomorphic Features Indicating Strike-slip Movement along the East Matsumoto Basin Faults, Itoigawa-Shizuoka Tectonic Line Active Fault System, Central Japan.....	Hisao KONDO, Shinji TODA, Koji OKUMURA and Keita TAKADA	2	208 220

### **Special Issue on “ Coupled Mechanical and Fluid-pressure Responses and Fluid Flow Processes in Geosphere ”**

Foreword to Special Issue on “ Coupled Mechanical and Fluid-pressure Responses and Fluid Flow Processes in Geosphere ”.....	Herbert F. WANG ( Translated by Tomochika TOKUNAGA )	3	253 256
Coupled Mechanical and Fluid-pressure Responses and Fluid Flow Processes in Geosphere : Introduction.....	Tomochika TOKUNAGA	3	257 261
Understanding Deformation-fluid Flow Coupling Processes Based on the Theory of Poroelasticity and Its Implications for Earth Sciences ( Review Article ).....	Tomochika TOKUNAGA	3	262 278
Applicable Depth Ranges for Estimating Hydraulic Properties from Periodic Pore Pressure Fluctuations Caused by Surface Loadings( Original Article ).....	Takuya URAKOSHI, Shinichi HOSOYA and Tomochika TOKUNAGA	3	279 294

Numerical Geomechanics for the Prevention of Geo-disasters    Modeling the Interaction of Geomaterials with Pore Fluids    ( Original Article ).....	Takeshi KODAKA	3	295 308
Modeling Earthquake Generation Processes with Pore-fluid Pressure Changes Caused by Dilatancy ( Original Article ).....	Bunichiro SHIBAZAKI	3	309 325
Interpretation of Some Geologic Structures of Unconsolidated or Partially Consolidated Sediments ( Review Article ).....	Yujiro OGAWA, Katsunori TANAKA and Kiyofumi SUZUKI	3	326 352
Fluid Behavior during Evolution of Plate Boundary Fault from Trench to Seismogenic Depths ( Original Article ).....	Kohtaro UJIIE, Asuka YAMAGUCHI, Gaku KIMURA, Toshio HISAMITSU and Asahiko TAIRA	3	353 366
Current Research Status and Meaning of Fluid Pressure Monitoring at the Nankai Trough ( Review Article ).....	Hitoshi MIKADA, Masanori IENAGA, Tada-nori GOTO and Takafumi KASAYA	3	367 382
Evaluation of Formation Permeability from Borehole Stoneley Waves ( Original Article ) .....	Takeshi ENDO	3	383 399
A Feasibility Study for Characterizing Subsurface Faults and Hydrogeological Information with Marine Electromagnetic Prospecting ( Original Article ).....	Kimitaka YOSHIMURA, Shuichi OKUBO and Kazunobu YAMANE	3	400 415
Electromagnetic Investigation of High-salinity Groundwater Zones in Coastal Plains A Case Study of the Kujukuri Coastal Plain    ( Original Article ).....	Yuji MITSUHATA	3	416 424
<hr/>			
Language Maintenance of Francophones and Development of the Francophone Community in English-dominant Canadian Cities: A Case Study of the Halifax Region, Nova Scotia .....	Taro OISHI	4	431 447
Extraction of Thermal Features Using Satellite Sensed Images and Discussion of Brightness Temperature Characteristics.....	Wanglin YAN	4	448 465
<hr/>			
Temporal Development of a Late Holocene Strand Plain System in the Shirasuka Area along Western Shizuoka Prefecture on the Pacific Coast of Central Japan.....	Osamu FUJIWARA, Junko KOMATSUBARA, Keita TAKADA, Masanobu SHISHIKURA and Takanobu KAMATAKI	5	569 581
Geographical Origin as a Cohesive Factor of Residential Areas in Barcelona .....	Katsuyuki TAKENAKA	5	582 605
Estimation of Surface Temperatures by Landsat Satellites Based on the Spatially-distributed Atmospheric Correction.....	Hiroshi MATSUYAMA, Ayako KITAMURA and Takeki IZUMI	5	606 625
Geology and Molluscan Fossils from the Cretaceous Misakubo Formation, Northern Part of Shizuoka Prefecture, Japan.....	Kazuki YOSHIHARA and Toshifumi KOMATSU	5	626 637
<hr/>			
Paleoceanic Environment Deduced from Geochemistry of Turbidite-Sequence in Anno Formation, Awa Group, Boso Peninsula, Chiba Prefecture, Japan.....	Naotatsu SHIKAZONO, Shuhei IWAI, Yoshiro ISHIHARA, Takanori NAKANO and Chiaki IGARASHI	6	669 690
Active Tectonics of the Senya Hills and Evolution of the Senya Active Fault, Eastern Margin of the Yokote Basin Fault Zone, Northeast Japan.....	Kyoko KAGOHARA, Toshifumi IMAIZUMI, Takahiro MIYAUCHI, Hiroshi SATO, Takuma UCHIDA, Tomoo ECHIGO, Tatsuya ISHIYAMA, Nobuhisa MATSUTA, Shinsuke OKADA, Yasutaka IKEDA, Shigeru TODA, Shin KOSHIYA, Masaru NODA, Hajime KATO, Katsuya NODA, Atsushi MIWA, Hideki KUROSAWA, Hideki KOSAKA and Tsuyoshi NOHARA	6	691 714

Carbon Cycle during the Paleocene/Eocene Thermal Maximum: Reconstruction from a Marine Biogeochemical Carbon Cycle Model.....	Keiko MATSUOKA, Eiichi TAJIKA, Ryuji TADA and Takafumi MATSUI	6	715 726
---	---	---	---------

## Short Articles

Title	Author	Number	Page
Flood Risk Evaluation of the Mekong River Delta Utilizing JERS-1 SAR Images .....Shigeko HARUYAMA and Ken SHIDA		1	72 86
Areal Classification Based on the Number of Trekkers in the Ushiro-Tateyama Range, Northern Japanese Alps.....	Yoshinao MATSUMOTO, Takayuki OGATA and Hiroshi UCHIKAWA	2	221 235
Morphological Characteristics of Hummocks Originating from the 24 ka Sector Collapse Event of Asama Volcano, Central Japan.....	Hidetsugu YOSHIDA and Toshihiko SUGAI	5	638 646
Excavation Study across the Anchi Active Fault in the Eastern Marginal Area of the Echigo Plain, Central Japan Investigation into the Nature of a Short Subsidiary Fault close to the Master Active Fault .....	Mitsuhisa WATANABE and Masaru SAITO	6	727 736
Problem Soils of the Paddy Fields in the Eastern Coastal Plain of the Red River Delta, Vietnam .....Shigeko HARUYAMA, Thai Hung DINH and Van Tiem LE		6	737 749

## Notes

Title	Author	Number	Page
Distribution of Terrestrial $\gamma$ Ray Dose Rates in Japan.....	Susumu MINATO	1	87 95
Development of Geosciences in Japan, 1924 to 1945 Part 6 .....Editorial Committee of History of Geosciences in Japan Tokyo Geographical Society		1	96 109

## Reports

Title	Author	Number	Page
<b>Reports on the 9th Overseas Excursion to Kenya</b>			
From the Indian Ocean Coast to Lake Victoria across the Rift Valley: A Report on the 9th Overseas Excursion to Kenya.....	Kazuo NAKAMURA	6	756 758
From the Coast of the Indian Ocean to Lake Victoria across the African Great Rift Valley: A Report on the 9th Overseas Excursion to Kenya The Great Rift Valley Seen for the First Time.....	Aya KAMIMURA	6	759 761

## Reports of Subsidiary Research in 2005

Title	Author	Number	Page
Depositional Environments and Fossil Bivalves in the Lowermost Parts of the Triassic Systems in North Vietnam and South China.....	Toshifumi KOMATSU, Huyen DANG TRAN and Jin-Hua CHEN	4	470 483
Geomorphological Chronology of Pleistocene Terraces and Pediments used for the Loess-paleosol Sequence in Korea.....	Toshiro NARUSE, Yukiya TANAKA, Sang-II HWANG and Soon-Ock YOON	4	484 491
Characteristics of Icelandic Outwash Fan: For Establishment on Definition of an Alluvial Fan .....	Kyoji SAITO	4	492 499

Changes Land Use in the Tokyo Lowland during the Period from 1868 to 2005, with Special Reference to the Distribution of Factories·····Takeshi ENDOH	4	500 507
REE Mineralization by the Weathering of High REE Granitic Rocks in the Ashizuri-misaki Area and the Sanyo Belt of SW Japan, and in Jianxi Province, South China ·····Hiroyasu MURAKAMI and Shunso ISHIHARA	4	508 515
Palaeo-climate Reconstruction from Permafrost Ice in Block Slope·····Yuki SAWADA	4	516 523
Changes in the Mountain Permafrost Environment and their Effects on Geomorphic Change in the Japanese Alps, Central Japan, since the Last Glacial Maximum·····Masafumi AOYAMA	4	524 530
Glacial Lake Expansion and Present Situation in Hinku and Hongu Regions, Eastern Nepal and Bhutan Himalaya·····Jiro KOMORI	4	531 535
Annual Meeting: IGU Commission on Monitoring Cities of Tomorrow·····Yuji MURAYAMA	4	536 539

### **A Report of the Spring Meeting, 2006**

Title	Author	Number	Page
Biological Implication of Sclerotium Grain Formation in Soil·····Makiko WATANABE		6	750 755

### **Summary of the Earth Science Club Lecture**

Title	Author	Number	Page
Tectonic Development of the Japanese Islands Controlled by Philippine Sea Plate Motion ·····Masaki TAKAHASHI		1	116 123
Paradigm Shift in Petroleum Exploration and "Peak Oil"·····Masazumi INOUE		2	236 242
Recent Earthquake Damage·····Motohiko HAKUNO		4	466 469
Scientific Survey for Delineating the Outer Limits of the Extended Continental Shelf ·····Yukihiro KATO		5	647 651
Paleoenvironmental Changes in the Japan Sea and off Kashima over the Last 150 kyr Based on Oxygen and Carbon Isotopes of Foraminiferal Tests·····Tadamichi OBA		5	652 660

### **Memory**

Title	Author	Number	Page
Late Professor Isao IMAI·····Hiroshi ISHIYAMA		4	544 545
Late Dr. Masatsugu SAITO·····Nobukazu KANBE		6	766

### **Pictorials**

Title	Author	Number
Three-dimensional Structure of Latest Pleistocene to Holocene Sequence at the Nobi Plain, Central Japan·····Masaaki YAMAGUCHI, Toshihiko SUGAI, Takashi OGAMI, Osamu FUJIWARA and Hiroo OHMORI		1
Active Lava Flow Flew from Pu'uO'o Vent in Kilauea in Island of Hawaii, U.S.A. ·····Junzo KASAHARA		1
Asama Eruption of 2004·····Yukio HAYAKAWA		2
Migmatite and Rapakivi Granite in the South Finland·····Junzo KASAHARA		4
Scars of the Glacial Lake Outburst Flood in Sabai Tsho, Hinku Valley, Nepal Himalaya ·····Jiro KOMORI		4
Recent Geomorphic Changes in the Shirouma Daisekkei Valley·····Yoshihiko KARIYA		5
Granite Outcrop of Sanqingshan, Jiangxi Province, China ·····Hiroyasu MURAKAMI and Shunso ISHIHARA		6

## Front Cover

Title	Author	Number
Snap Shot of the Lava Flew from Pu'u O'o Vent in Kilauea Reaching to the South-eastern Shore of Island of Hawaii, U.S.A. ....	Junzo KASAHARA	1
Aerial view of Asama Volcano from the NE.....	Yukio HAYAKAWA	2
End of Europe: Azores Islands.....	Motomaro SHIRAO	3
Early Proterozoic Granite during the Svecofennian Orogenesis( 1.9 1.8 Ga ago )in the South Finland.....	Junzo KASAHARA and Annakaisa KORJA	4
High Cliff in the Upper Shirouma Daisekkei Valley, Northern Hida Range ..	Yoshihiko KARIYA	5
Crater Lake of Tienchi and Changbaishan Volcano.....	Shunso ISHIHARA	6