

**Program of the 16th Symposium on Antarctic Geosciences
held at the National Institute of polar Research, Tokyo,
October 15–16, 1996**

- I. Geomorphology I
 1. Stratigraphy of the late Quaternary raised beach deposit in the northern part of Langhovde, Lützow-Holm Bay. Hideaki MAEMOKU, Hideki MIURA, Shigeru SAIGUSA and Kiichi MORIWAKI.
 2. Stratigraphic relationship between glacial, fluvioglacial and marine deposits at the mouth of Yukidori and Yatude Valleys, southern part of Langhovde, Lützow-Holm Bay region. Hideki MIURA, Hideaki MAEMOKU, Shigeru SAIGUSA and Kiichi MORIWAKI.
 3. Holocene sea level change on the basis of geomorphological evidence and ^{14}C dates at the Kizahasi raised beach, Skarvsnes, Lützow-Holm Bay region. Hideki MIURA, Hideaki MAEMOKU, Shigeru SAIGUSA and Kiichi MORIWAKI.
 4. Stratigraphy of the late Quaternary raised beach deposit at the Kai-no-hama beach, East Ongul Island, Lützow-Holm Bay. Hideaki MAEMOKU, Hideki MIURA, Shigeru SAIGUSA and Kiichi MORIWAKI.

- II. Geomorphology II
 5. Late Quaternary relative sea-level change derived from raised beach observation in the northern part of Lützow-Holm Bay. Hideaki MAEMOKU, Hideki MIURA, Shigeru SAIGUSA and Kiichi MORIWAKI.
 6. Some problems on the late Quaternary glacial history and environmental variability around the Lützow-Holm Bay on the basis of ^{14}C dating ages and raised beach features. Hideki MIURA, Hideaki MAEMOKU, Shigeru SAIGUSA and Kiichi MORIWAKI.
 7. The Terra Noba Drift and related problems. Kazuomi HIRAKAWA and P. BERKMAN.
 8. Purpose of Quaternary geological and geomorphological investigations in the Mt. Riiser-Larsen area, Enderby Land, East Antarctica. Hideki MIURA, Masashi TAKADA, D. P. ZWARTZ and Kiichi MORIWAKI.

- III. Solid Earth Physics
 9. Leveling survey on East Ongul Island, Antarctica and its implication of the results. Katsutada KAMINUMA and Isao KIMURA.
 10. Results for the tidal analysis using the three years data obtained with a superconducting gravimeter at Syowa Station, Antarctica. Yuichi AOYAMA, Kazunari NAWA and Tadahiro SATO.
 11. Tidal factors at Syowa Station obtained from three-year observations by superconducting gravimeter. Yoshiaki TAMURA, Yuichi AOYAMA and Kazunari NAWA
 12. Performance test of seismic data loggers under polar environments. Toshiyuki TANAKA and Masaki KANAOKA.
 13. Detection of the velocity discontinuity in the mantle beneath Antarctica. Atsuki KUBO, Masaki KANAOKA, Yoshihiro HIRAMATSU, Takuro SHIBUTANI and Masataka ANDO.

- IV. Geology and Petrology I
 14. Petrogenesis of the meta-trondhjemites from Cape Hinode, East Antarctica. Yasuo IKEDA, Kazuyuki SHIRAIISHI and Yoichi MOTOYOSHI.
 15. Sm–Nd, Rb–Sr age for the Sandercock Nunataks granulites. Takuji HAMAMOTO, Kazuyuki SHIRAIISHI and Hiroo KAGAMI.
 16. CHIME monazite ages for granulite-facies metapelites, Sør Rondane Mountains. Masao ASAMI, Kazuhiro SUZUKI and Mamoru ADACHI.
 17. Geochronological constraints of the metamorphic history of the Sør Rondane Mountains. Kazuyuki SHIRAIISHI, Hiroo KAGAMI, M. FANNING and Yoichi MOTOYOSHI.

V. Geomorphology III

18. Slope evolution in the Sør Rondane Mountains. Shuji IWATA.
19. Hydrostatic investigation of subglacial ponding along the Shirase drainage basin. Takanobu SAWAGAKI
20. Rock glacier at a foot of Mt. Riiser-Larsen in Enderby Land, East Antarctica. Shigeru SAIGUSA, Hideki MIURA, Hideaki MAEMOKU and Kazuomi HIRAKAWA.

VI. Geology and Petrology II

21. The microtexture of K-feldspar in the syenites from the Yamato Mountains, East Antarctica. Takanobu OBA and Seiichirou UEHARA.
22. High temperature phase relations in the FeO–MgO–Al₂O₃–SiO₂ system: An application to high-temperature granulites from Lützow-Holm Complex. Satoshi SAKAI and Toshisuke KAWASAKI.
23. Phlogopite-calcite grain boundaries as fluid channels in Skallen marbles, East Antarctica: Evidence from microscale isotopic zonation. M. SATISH-KUMAR and Hideki WADA.

VII. Geology and Petrology III

24. Geology and petrology of the southwestern part of Mt. Riiser-Larsen, Enderby Land (I). Masashi ARITA, Yoshinobu KAWANO, Kazuki NAITO and Morihisa SUZUKI.
25. Geology and petrology of the southwestern part of Mt. Riiser-Larsen, Enderby Land (II). Morihisa SUZUKI, Masashi ARITA, Yoshinobu KAWANO and Kazuki NAITO.
26. Rb-Sr and Sm-Nd whole-Rock system of the metamorphic rocks from Mount Pardoe in the Napier Complex, East Antarctica. Yoshiaki TAINOSHO, Hiroo KAGAMI, Takuji HAMAMOTO and Yuhei TAKAHASHI.
27. Sm-Nd garnet-whole rock isochron age from Tonagh Island, Napier Complex. Masaaki OWADA, Yasuto OSANAI, Takuji HAMAMOTO and Hiroo KAGAMI.
28. P wave velocities in rocks from Enderby Land, East Antarctica. Masahiro ISHIKAWA.

VIII. Marine Geology and Geophysics

29. Beneath the Australian-Antarctic discordance. Kenta OKANO and Kunihiko SHIMAZAKI.
30. Preliminary report of newly identified seamount in the Southern Indian Ocean by JARE-37. Yoshifumi NOGI and Katsutada KAMINUMA.
31. Geological and geophysical survey results of Ross Sea, Antarctica. Manabu TANAHASHI, Takemi ISHIHARA, Makoto YUASA, Fumitoshi MURAKAMI and Akira NISHIMURA.
32. Applicability of the 10 Hz satellite altimetry data to the Antarctic margin. Kumiko TERADA and Yoichi FUKUDA.

IX. Geology and Petrology IV

33. Isotopic anomalies of noble gases in gneiss, Isua, Greenland. Kazuya FUKUNAGA, Takayuki YOSHINO, Keisuke NAGAO and Kazuo SAITO
34. Paleomagnetism of Rajmahal trap in northeastern India. Hideo SAKAI, Tomonori SATO, Minoru FUNAKI, Yutaka TAKIGAMI, Harutaka SAKAI and Kimio HIROOKA.
35. Analysis of striped layers by magnetic and fluorescent X-ray methods for the BIF specimen from Antarctica. Hideo SAKAI, Kotaro SHIRAI, Masao TAKANO, Masae HORII and Minoru FUNAKI.
36. Peculiar khondalite and a certain lower crustal process. Yoshikuni HIROI, Yoichi MOTOYOSHI, Kazuyuki SHIRAISHI and V. MATHAVAN.

X. Geology and Petrology V

37. Structure of Sri Lankan Precambrian and its bearing on the Pan-African tectonics of East Gondwana: A review. Masaru YOSHIDA, Yasutaka TANI and M. SANTOSH.
38. Evolution of a suite of Granulites from Eastern Ghats, India and its implication to Gondwana assembly. R. K. SHAW, Makoto ARIMA and Hiroo KAGAMI.
39. Exsolution features seen in pyroxene megacrysts from a massif anorthosite in northern Kerala, South India, and its implication on anorthosite petrogenesis. H. M. RAJESH, M. SANTOSH and Masaru YOSHIDA.

40. Pan-African tectonothermal events in East Gondwana land: Evidence from South Indian granulites using CHIME age dating. R. S. BINDU, Kazuhiro SUZUKI, Masaru YOSHIDA and M. SANTOSH.

Posters session

- P1. Telluric current measurements at Syowa Station. Yuichi AOYAMA, Yasuo KATOH, Toshiyuki TANAKA and Toshiyasu NAGAO.
- P2. A trial of the detection of non-linear free oscillation of the Earth. Toshiyuki TANAKA and Muneyoshi FURUMOTO.
- P3. Focal mechanism of earthquakes in the Indian Ocean during the last decade. Katsutada KAMINUMA, Atsuki KUBO and R. K. CHADHA.
- P4. Crust-Mantle transition zone and crustal heterogeneity in the Antarctic continent by broadband waveform inversion. Masaki KANAOKA, Atsuki KUBO and Takuro SHIBUTANI.
- P5. Faults in the sediment core sequence of the Ross Sea, Antarctica—Products possibly formed by ice sheet flows—. Akira NISHIMURA and Toru NAKASONE.
- P6. Paleomagnetism on rocks of Napier complex from Mt. Riiser-Larsen. Naoto ISHIKAWA and Minoru FUNAKI.
- P7. Magnetic properties of dirt-ice collected from the Yamato Mountains. Minoru FUNAKI and Naoto ISHIKAWA.
- P8. Preliminary study on timing of the retrograde metamorphism within deformational sequence of the Arena gneisses in central Sri Lanka. Yasutaka TANI.
- P9. Sm-Nd and Rb-Sr isochron ages of sapphirine granulites from Highland Complex, Sri Lanka. Yasuto OSANAI, Takuji HAMAMOTO and Hiroo KAGAMI.