

**Program of the 12th Symposium on Antarctic Geosciences
held at the National Institute of Polar Research, Tokyo,
October 13-14, 1992**

I. Geochemistry

1. Organic geochemical study of lake sediments and algal mats from the Lützow-Holm Bay region, Antarctica. Genki I. MATSUMOTO, Shuji OTANI, Haruta MURAYAMA, Kunihiko WATANUKI and Tetsuya TORII.
2. Origin of dissolved salts inferred from lithium abundance in lake and pond waters in the Antarctic McMurdo Dry Valleys. Nobuki TAKAMATSU, Naoyuki KATO, Genki I. MATSUMOTO and Tetsuya TORII.
3. Formation process of ice from an ice-wedge in Marambio Island, Antarctic Peninsula region (I). Kikuo KATO and Masami FUKUDA.
4. Relationships between Antarctic ice melt and meridional shift of Polar Front from 1979 to 89 AD. Shinya KAKUTA and Kunihiko WATANUKI.

II. Antarctica and Gondwana

5. Provenance of the Lützow-Holm Complex, East Antarctica—Ion microprobe U-Pb study of Zircons (II). Kazuyuki SHIRAISHI, Yoshikuni HIROI, D.J. ELLIS, C.M. FANNING, Yoichi MOTOYOSHI and Yutaka NAKAI.
6. Fold structures in the Lützow-Holm Complex, East Antarctica. Masahiro ISHIKAWA, Yoichi MOTOYOSHI and Toshisuke KAWASAKI.
7. Petrology and geochemistry of Early Precambrian carbonate rocks from Umpavalli area, Eastern Ghats, India and their comparison with Antarctica. M.V. RAO, A.T. RAO, K.S. RAO and Masaru YOSHIDA.
8. Geochronological study of Southern Indian granulites. C. UNNIKRIISHNAN, Masaru YOSHIDA, Hiroo KAGAMI and M. SANTOSH.
9. 500 Ma magmatism in Gondwanaland and its tectonic significance: Antarctica and the Himalaya. Kazunori ARITA, Yoshiyuki KOIDE and Kazuyuki SHIRAISHI.

III. Icequakes

10. Characteristics of ground motions caused by movements of temperate glaciers in eastern Tibet. Junpei AKAMATSU, Yuki MORINAGA, Takeshi YAMANOUCHI and Zhang WENJING.
11. Icequakes recorded at Syowa Station, Antarctica. Kenta OKANO and Katsutada KAMINUMA.

IV. Marine Geophysics

12. Preliminary report of the surface ship gravity measurements conducted during JARE-33. Yoichi FUKUDA, Jiro SEGAWA and Katsutada KAMINUMA.
13. Characteristics of GEOSAT altimetric geoid in the circum Antarctic ridges and its implication to the tectonics of the Antarctic plate. Takeshi MATSUMOTO and Katsutada KAMINUMA.
14. Geomagnetic anomaly field vector off western Australia. Yoshifumi NOGI, Yoshiaki EGUCHI, Nobukazu SEAMA and Nobuhiro ISEZAKI.

V. Solid Earth Geophysics

15. Syowa Station: Observatory for global geodesy in Antarctica. Kazuo SHIBUYA.
16. Absolute gravity measurement at Syowa Station. Satoshi FUJIWARA, Kazuo WATANABE and Yoichi FUKUDA.
17. On a project for the observations of the Earth tide and Earth's free oscillations with a superconducting gravimeter at Syowa Station. Tadahiro SATO, Kazuo SHIBUYA, Kenta OKANO, Katsutada KAMINUMA and Masatsugu OOE.

18. Instability of STS seismograph at Syowa Station. Masato YAMAMOTO.
19. Present status of seismic network in Antarctica. Katsutada KAMINUMA.
20. Rock magnetism of the gneissose rocks of the Skarvsnes area, East Antarctica. Mutsumi NAKAI, Peter WASILEWSKI and Minoru FUNAKI.
21. Relationship of coda Q^{-1} with the volcanic activity of Mount Erebus, Antarctica. Shinya ASAKAWA.
22. An ocean bottom seismographic refraction experiment in Bransfield Strait, West Antarctica, 1990/1991. Hideki SHIMAMURA, Hajime SHIOBARA, Tomoki WATANABE and A. GUTERCH.

VI. Geology and Mineralogy

23. Cordierite-bearing granulites from Rundvågshetta, East Antarctica. Toshisuke KAWASAKI, Masahiro ISHIKAWA and Yoichi MOTOYOSHI.
24. Geochemical characteristics of metamorphosed high K/Na dykes in eastern Queen Maud Land, Antarctica: Ultrapotassic igneous activity linked to Pan-African orogeny. Makoto ARIMA and Kazuyuki SHIRAISHI.
25. Experimental studies on syenitic rocks in the Yamato Mountains, East Antarctica. Takanobu OBA and Kazuyuki SHIRAISHI.
26. Wollastonite from the Eastern Sør Rondane Mountains, Antarctica. Masao ASAMI and Hiroshi MAKIMOTO.
27. Preliminary petrological studies of the granitic rocks in the Sør Rondane Mountains, East Antarctica. Yoshiaki TAINOSHO, Yuhei TAKAHASHI, Yasuhito OSANAI and Noriyoshi TSUCHIYA.
28. Sm-Nd and Rb-Sr ages of garnet-bearing granite from the Sør Rondane Mountains, East Antarctica. Hiroo KAGAMI and Kazuyuki SHIRAISHI.

VII. Geomorphology

29. Seismic stratigraphy of shelf margin strata in the Bellingshausen Sea, Antarctica. Hideo KAGAMI.
30. Fluctuation of ice sheet around the Sør Rondane Mountains based on ^{10}Be ages. Kiichi MORIWAKI and Kunihiro NISHIZUMI.
31. Uplift of the Sør Rondane Mountains. Shuji IWATA.
32. Measurements on present day geomorphic processes in the Sør Rondane Mountains (fourth report). Norikazu MATSUOKA and Kiichi MORIWAKI.
33. Periglacial features in James Ross Island. Masami FUKUDA, Toshio SONE, Kazuo SHIMOKAWA and Nobuyuki TAKAHASHI.