

**Program of the Tenth Symposium on Antarctic Geosciences  
held at the National Institute of Polar Research, Tokyo,  
October 31–November 1, 1989**

- I. Geology and Mineralogy in the Sør Rondane Mountains
  1. Antarctic geoscience transect QML-1. Katsutada KAMINUMA.
  2. Pelitic gneisses in the eastern Sør Rondane Mountains. Masao ASAMI, Hiroshi MAKIMOTO and Edward S. GREW.
  3. Mineralogy of ultramafic rocks from Mt. Balchen of the eastern Sør Rondane Mountains. Hiroshi MAKIMOTO, Masao ASAMI and Edward S. GREW.
  4. Crystallization of syenitic rocks and A-type granite from Lunckeryggen, Sør Rondane Mountains, East Antarctica. Tohru SAKIYAMA, Yuhei TAKAHASHI and Yasuhito OSANAI.
  5. Some comments of plutonism in the Sør Rondane Mountains. Yuhei TAKAHASHI, Tohru SAKIYAMA and Yoji ARAKAWA.
  6. Experimental study of the syenitic rocks from the Yamato and the Sør Rondane Mountains, East Antarctica. Takanobu OBA and Kazuyuki SHIRAISHI.
- II. Earth Sciences in the Syowa Station and the Surrounding Areas
  7. Attenuation of seismic waves and source properties of local earthquakes in Lützw-Holm Bay. Junpei AKAMATSU.
  8. Seismic observation with radio-linked network at Syowa Station (2). Nobuo ICHIKAWA, Junpei AKAMATSU and Katsutada KAMINUMA.
  9. On geomagnetic secular variation in East Antarctica. Kazuo SHIBUYA.
  10. Analysis of the Earth Tide after the correction of the Ocean Tide effect at Syowa and Asuka Stations, Antarctica. Fumio OGAWA, Yoichi FUKUDA, Junpei AKAMATSU and Kazuo SHIBUYA.
  11. Tides and tidal currents around Syowa Station. Minoru ODAMAKI and Katsuziro OKA.
  12. On the bedrock landform in the Yamato Mountains region. Yoshio YOSHIDA and Fumihiko NISHIO.
  13. Past lacustrine deposits and landforms in the Mt. Riiser-Larsen area, Amundsen Bay, East Antarctica. Masahisa HAYASHI.
- III. Earth Sciences in McMurdo Sound
  14. Seismic activity of Mt. Erebus in 1980–1988. Katsutada KAMINUMA and Raymond R. DIBBLE.
  15. Interstitial glass in mantle-derived xenoliths from the McMurdo volcanics, West Antarctica. Kiyooki NIIDA.
  16. A geochemical study of the CIROS boring project, McMurdo Sound, Ross Sea, Antarctica. Hideki WADA and Hakuyu OKADA.
- IV. Earth Sciences in the Ocean
  17. Geoidal undulation and gravity anomaly around Japanese Antarctic stations estimated from both altimeter data and gravity data. Yoichi FUKUDA, Jiro SEGAWA and Katsutada KAMINUMA.
  18. The three components of the geomagnetic field measured on shipboard during JARE-30. Yoshifumi NOGI, Nobuhiro ISEZAKI, Katsutada KAMINUMA and Minoru FUNAKI.
  19. Marine geology of the Bransfield Strait and its adjacent area. Seizo NAKAO, Yuji TSUMURAYA, Syoshiro SHIMIZU, Kazuo YAMAGUCHI, Hiroshi MORISHIMA, Keiji MIYAKE and Yuichi SAWANO.
- V. Geomorphology and Geophysics in the Sør Rondane Mountains
  20. Glacial landforms in the western Sør Rondane Mountains. Kiichi MORIWAKI and Kazuomi HIRAKAWA.
  21. Ice sheet fluctuations in the central Sør Rondane Mountains based on the newly observed facts. Kazuomi HIRAKAWA and Kiichi MORIWAKI.

22. "Tor" landform in the Sør Rondane Mountains—Its size and origin—. Kazuomi HIRAKAWA and Kiichi MORIWAKI.
  23. Ice cored mound in the Sør Rondane Mountains. Kazuomi HIRAKAWA and Kiichi MORIWAKI.
  24. Measurements on present day geomorphic processes in the Sør Rondane Mountains (third report). Norikazu MATSUOKA, Kiichi MORIWAKI, Kazuomi HIRAKAWA, Shuji IWATA, Masahisa HAYASHI and Masatake ANIYA.
  25. Installation of geomagnetic control station at the Seal Rock, East Antarctica. Kazuo SHIBUYA, Ryoki SAKAI and Masaru AYUKAWA.
  26. GPS measurement result using point positioning method in Antarctic Continent. Hiroshi ABE and Masao ISHIHARA.
- VI. Geochemistry in Antarctica
27. The synthetic study of Antarctic waters (I). Shinya KAKUTA and Kunihiko WATANUKI.
  28. The synthetic study of Antarctic waters (II) (—Poster—). Shinya KAKUTA and Kunihiko WATANUKI.
  29. Geochemical features of hydroxy acids in Antarctic soil, Dry Valleys, McMurdo Sound. Genki I. MATSUMOTO, Kunihiko WATANUKI and Tetsuya TORII.
  30. Chemical and isotopic characteristics of ice-wedge ice in permafrost, Maranbio Island, Antarctic Peninsula (I). Kikuo KATO and Masami FUKUDA.
- VII. Antarctica and Gondwana
31. Paleomagnetic study of west part of Sør Rondane Mountains—Granite from Pingvinane and syenite from Lunckeryggen—. Minoru FUNAKI and Katsuyasu TOKIEDA.
  32. Study of ODP Leg 119 cores drilled at Prydz Bay and Kerguelen Plateau. Hideo SAKAI, Barbara KEATING and ODP LEG 119 SHIPBOARD PARTY.
  33. Paleomagnetic study of the deep-sea core (ODP Leg 120) from the Kerguelen Plateau, the south-central Indian Ocean. Hiroo INOKUCHI and Franz HEIDER.
  34. Geological survey of eastern-southern Africa, in view of comparing geology with East Antarctica. Masaru YOSHIDA.
  35. Textures attributed to crystallization from a melt in Sri Lankan pelitic granulites. Yoshikuni HIROI.
  36. Paleomagnetic study of southern Sri Lanka. Minoru FUNAKI and Masaru YOSHIDA.
  37. Metamorphic rocks around Prydz Bay, East Antarctica. Yoichi MOTYOYOSHI, D. E. THOST and B. J. HENSEN.
  38. *P-T* grid for osunilite-bearing granulite facies rocks—the Napier Complex revisited. Makoto ARIMA, Kazuyuki SHIRAIISHI and Yoichi MOTYOYOSHI.