

ANTARCTIC RECORD Vol. 31 Contents

No. 1 (March 1987)

Scientific Paper

- Aeromagnetic surveys over the Yamato Mountains and the Yamato Meteorite Ice Field, East Antarctica
.....*Kazuo Shibuya, Akiko Tanaka and Mitsuru Manabe*..... 1

Reports

- Activities of the wintering party of the 26th Japanese Antarctic Research Expedition in 1985–1986 (in Japanese).....*Hiroshi Fukunishi*..... 11
- The marine biological study carried out during the 25th Japanese Antarctic Research Expedition (1984/85) with special reference to the BIO-MASS-oriented study (in Japanese)
.....*Kouichi Kawaguchi, Osamu Matsuda and Shingo Ishikawa*..... 38
- Report of the research trips at the coastal ice-free area by the 26th Japanese Antarctic Research Expedition in 1985 (in Japanese)
.....*Haruta Murayama*..... 55
- Report of visual observations on penguins, seals and other seabirds near Syowa Station, Antarctica, by the JARE-26 in 1985 (in Japanese)
.....*Haruta Murayama*..... 67
- Computer compilatory process of the data acquired by the computer system at Syowa Station (in Japanese)
...*Haruo Sakurai, Yutaka Tonegawa, Ryoichi Fujii and Natsuo Sato*..... 77

No. 2 (July 1987)

Scientific Papers

- Vertical distribution and standing stocks of chlorophyll *a* in the coastal waters of the Antarctic Ocean
.....*Masao Ohno, Yasushi Fukuda and Mitsuo Fukuchi*..... 93
- Vertical distribution of bacterial cell size and biomass in Lake Vanda, an Antarctic lake (in Japanese)
...*Toshifumi Konda, Susumu Takii, Manabu Fukui, Yasushi Kusuoka, Genki I. Matsumoto, Shyu Nakaya and Tetsuya Torii*..... 109

Scientific Note

- The surface distributions of nutrients and chlorophyll *a* in the area between 90°W and 20°E of the Antarctic Ocean and adjacent seas
...*Fukashi Fukui, Nobuyuki Kadoya, Shiro Okabe and Yuzo Komaki*..... 118

Reports

- Meteorological observations at Syowa Station in 1982 by the 23rd Japanese Antarctic Research Expedition (in Japanese)
.....*Tamotsu Yoshihira, Yasuo Shudo, Ryouichi Kajihara
and Masahiko Sasaki*..... 131
- Activities of Japanese earth science research in the McMurdo Sound region in the 1986–1987 season (in Japanese).....*Katsutada Kaminuma*..... 155

No. 3 (November 1987)

Scientific Papers

- Glaciological and chemical characteristics of snow in the inland plateau, East Queen Maud Land, Antarctica
...*Kokichi Kamiyama, Yutaka Ageta, Fumio Okuhira, Yoshiyuki Fujii
and Okitsugu Watanabe*..... 163
- Total organic carbon in pond waters from the Labyrinth of southern Victoria Land in the Antarctic
.....*Genki I. Matsumoto, Kunihiko Watanuki and Tetsuya Torii*..... 171

Scientific Note

- Local earthquakes around Syowa Station, Antarctica (in Japanese)
.....*Katsutada Kaminuma and Junpei Akamatsu*..... 177

Reports

- Activities of the summer party of the 27th Japanese Antarctic Research Expedition in 1985–1986 (in Japanese).....*Yoshio Yoshida*..... 186
- Report on the geological, geomorphological and geodetic field party in the Sør Rondane Mountains, 1987 (JARE-28) (in Japanese)
.....*Kazuomi Hirakawa, Norikazu Matsuoka, Yuhei Takahashi,
Toru Sakiyama, Yasuhito Osanai and Kosei Tanaka*..... 206
- Activities of Japanese geochemistry party in the Dry Valleys region during the 1984–1985 field season (in Japanese)
.....*Kazuhiisa Komura, Shyu Nakaya, Takao Morimoto and
Tetsuya Torii*..... 230