

CONTENTS

Foreword	Takesi NAGATA	i
Yamato-74 Meteorites Collection, Antarctica from November to December 1974.	Keizo YANAI	1
Collection of Yamato Meteorites, East Antarctica in November and December 1975, and January 1976.	Yukio MATSUMOTO	38
First Meteorites Found in Victoria Land, Antarctica, December 1976 and January 1977—Report of the U. S.-Japan Joint Program Titled “Antarctic Search for Meteorites” 1976–1977.	Keizo YANAI	51
A Possible Mechanism of Concentration of Meteorites within the Meteorite Ice Field in Antarctica	Takesi NAGATA	70
Some Information on Topographic Features and the Characteristics of the Ice Sheet around the Yamato Mountains.	Yoshio YOSHIDA and Shinji MAE	93
Study on the Extraterrestrial Materials in Antarctica (VIII). On the Distribution of the Yamato Meteorites.	Makoto SHIMA, Hideo YABUKI and Kazuo YOSHIKAWA	101
A Classification for the Yamato-74 Chondrites Based on the Chemical Composition of their Olivines and Pyroxenes.	Keizo YANAI, Masamichi MIYAMOTO and Hiroshi TAKEDA	110
Mineralogical and Petrographical Studies of the Yamato Meteorites, Yamato-7301(j), -7305(k), -7308(l) and -7303(m) from Antarctica.	Kenzo YAGI, J. F. LOVERING, Makoto SHIMA and Akihiko OKADA	121
Petrological Studies of Yamato-74 Meteorites (1).	Hideo YABUKI, Kenzo YAGI and Kosuke ONUMA	142
Petrological Studies of Yamato-74 Meteorites (2).	Makoto KIMURA, Kenzo YAGI and Yoshio OBA	156
A Preliminary Mineralogical Examination of the Yamato-74 Achondrites.	Hiroshi TAKEDA, Masamichi MIYAMOTO, Keizo YANAI and Hiroshi HARAMURA	170
Yamato Achondrite Polymict Breccias.	Masamichi MIYAMOTO, Hiroshi TAKEDA and Keizo YANAI	185
Rare Gas Studies of Yamato-7301(j), -7304(m) and -7305(k).	Nobuo TAKAOKA and Keisuke NAGAO	198
Cosmic Ray Induced ^{53}Mn in Yamato-7301(j), -7305(k) and -7304(m) Meteorites.	Kunihiro NISHIZUMI, Mineo IMAMURA and Masatake HONDA	209
Oxygen Isotopes in Several Yamato Meteorites.	Naoki ONUMA, Robert N. CLAYTON, Toshiko K. MAYEDA and Keizo YANAI	220
K-Ar Age of Yamato Meteorite, Yamato-74190-01(L).	Akeji KAMAGUCHI and Jun OKANO	225
REE, Ba, Sr and Rb in the Yamato Meteorites, with Special Reference to Yamato-691(a), -692(b) and -693(c).	Akimasa MASUDA and Tsuyoshi TANAKA	229
Supplementary Notes on the Magnetic Classification of Stony Meteorites.	Takesi NAGATA	233

Magnetic Properties of an Iron Meteorite (Yamato-75031) and a Pallasite (Yamato-74044).	Takesi NAGATA	240
Metallographic Properties of Yamato Iron Meteorite, Yamato-75031, and Stony-Iron Meteorite, Yamato-74044.	R. M. FISHER, C. E. SPANGLER, Jr. and T. NAGATA	248
A Note on New Antarctic Iron Meteorites.	R. M. FISHER, J. I. GOLDSTEIN and T. NAGATA	260
Yamato-74662 Meteorite: A Carbonaceous Chondrite Type II.	Keizo YANAI and Hiroshi HARAMURA	264