

## CONTENTS

|       |  |     |
|-------|--|-----|
| I.    | Outline of research cruises  | 1   |
|       | ..... <i>E. Inoue, E. Honza and T. Ishihara</i>  |     |
| II.   | Morphological setting of the Ogasawara Arc   | 30  |
|       | ..... <i>E. Honza, I. Isoyama, K. Onodera and K. Ishibashi</i>   |     |
| III.  | 3.5 kHz subbottom profiling survey in cruises GH79-2,<br>3 and 4 .....   | 36  |
|       | <i>M. Tanahashi, M. Tamaki and Y. Okuda</i>  |     |
| IV.   | Gravity survey   | 45  |
|       | ..... <i>T. Ishihara, F. Murakami, T. Miyazaki and K. Nishimura</i>  |     |
| V.    | Geomagnetic survey   | 79  |
|       | ..... <i>T. Miyazaki, F. Murakami, K. Nishimura and T. Ishihara</i>  |     |
| VI.   | Seismic reflection profiling in the Ogasawara (Bonin) Arc<br>and the northern Mariana Arc                          | 83  |
|       | ..... <i>K. Tamaki, M. Tanahashi, Y. Okuda and E. Honza</i>  |     |
| VII.  | Sonobuoy refraction survey   | 92  |
|       | ..... <i>M. Tanahashi, K. Tamaki and Y. Okuda</i>  |     |
| VIII. | Sediments, rocks and ferromanganese oxide  | 95  |
|       | ..... <i>M. Yuasa, A. Nishimura and H. Makimoto</i>  |     |
| IX.   | Cored material .....   | 110 |
|       | <i>A. Nishimura and E. Honza</i>   |     |
| X.    | Geological survey on Minami-Iwojima, Yomejima and Nakodojima<br>Islands of the Ogasawara Islands Group, NW Pacific | 116 |
|       | ..... <i>M. Yuasa, K. Tomaki, A. Nishimura and E. Honza</i>  |     |
| XI.   | Rock core sampling from the banks north of Hachijo Island<br>using the submerged rock drill "MD500H"               | 123 |
|       | ..... <i>E. Inoue and M. Yuasa</i>   |     |
| XII.  | Heat flow measurements in the Bonin Arc area .....   | 130 |
|       | <i>Y. Matsubara</i>  |     |
| XIII. | Age assignments for sediment samples cored and dredged   | 137 |
|       | ..... <i>I. Koizumi</i>  |     |
| XIV.  | Preliminary geophysical survey north of Hachijo Island   | 139 |
|       | ..... <i>K. Nishimura, T. Ishihara and K. Tamaki</i>   |     |
| XV.   | Remanent magnetization measurement of piston core P150   | 144 |
|       | ..... <i>M. Joshima</i>  |     |
| XVI.  | Chemical composition of marine argillaceous sediments around<br>the Izu-Ogasawara Islands .....                    | 146 |
|       | <i>R. Sugisaki and T. Kinoshita</i>  |     |
| XVII. | The geological settings of the Ogasawara and the<br>northern Mariana Arcs -concluding remarks- .....               | 158 |
|       | <i>E. Honza</i>  |     |