

ANTARCTIC RECORD No. 43

CONTENTS

Japanese sounding rocket programme at Syowa Station, Antarctica. <i>Masayoshi Murayama, Kou Kusunoki and Sadao Kawaguchi</i>	1
Some aspects of ablation of sastrugi and drifts in the area subjected to katabatic winds in Antarctica (in Japanese)..... <i>Yutaka Ageta</i>	8
A preliminary report on modern carbon datings at Syowa Station and its neighbourhood, East Antarctica..... <i>Kunio Omoto</i>	20
A collection of fishes from Syowa Station, Antarctica. <i>Tokiharu Abe and Takao Hoshiai</i>	25
Medical investigations on the wintering members of the 10th Japanese Antarctic Research Expedition. I. Circulatory condition of finger tip in Antarctica (in Japanese)..... <i>Masamoto Kikkawa</i>	31
Reports read at the Symposium on Rocket Observation Projects in the Japanese Antarctic Research Expeditions	
Preface (in Japanese)	<i>Masahiro Kodama</i>41
Dynamics on polar ionosphere (in Japanese).....	<i>Nobuo Matuura</i>42
Comments on plasma wave experiments by sounding rocket in the Antarctica (in Japanese) ...	<i>Hiroshi Matsumoto and Iwane Kimura</i>46
Effects of magnetospheric plasma on auroral substorm (in Japanese).	<i>Hiroshi Oya</i>53
Some comments on the auroral-electrojet formation (in Japanese).	<i>Takesi Iijima</i>60
Some topics for the study of the mechanism of magnetospheric substorm by means of rocket observation in the auroral zone.	<i>Takao Saito</i>65
Rocket observation of aurora (in Japanese)	<i>Eisuke Kaneda</i>80
Ionosphere produced by the impact of 1 keV-electrons (in Japanese).	<i>Hiroshi Kamiyama</i>83
Concluding remarks (in Japanese).....	<i>Kenichi Maeda</i>86