

CONTENTS

PART - 1.

	<u>Page</u>
1.1 Experimental set-up of Proton Precession Magnetometer at Ahmedabad.	1 - 16
1.2 Comparison of geomagnetic field as recorded by the Proton Precession Magnetometer at Ahmedabad with the field recorded at magnetic observatory at Alibag.	16 - 22
References.	23

PART - 2.

2.1 Brief review of the geomagnetic field in the neighbourhood of the magnetic equator.	24 - 34
2.2 Sudden changes in the geomagnetic field near the magnetic equator.	34 - 41
References.	42 - 44
2.3 Collection of publications in support of the results described in 2.2	

PART - 3.

3.1 Introduction.	45 - 54
3.2 Method of analyses of lunar daily and monthly oscillations.	54 - 80
3.3 (1) Lunar tide in H at Kodaikanal during periods of low and high sunspots.	81 - 101
(2) Lunar tide in D at Kodaikanal during periods of low and high sunspots	102 - 116
(3) Lunar tide in Z at Kodaikanal during periods of low and high sunspots.	117 - 130

	<u>Page</u>
(4) Summary,	131 - 134
3.4 Lunar tides in H at equatorial stations during IGY/IGC.	
a. (1) Trivandrum	135 - 153
(2) Addis Ababa	154 - 171
(3) Koror	172 - 188
(4) Jarvis	189 - 205
(5) Huancayo	206 - 214
b. Summary.	215 - 217
3.5 Conclusions.	218 - 220
References	221 - 222