

Contents

PREFACE	v
Satellite observations of ionospheric perturbations related to seismic activity M. Parrot	1
A statistical study on seismo-ionospheric precursors of the total electron content associated with 146 $M \geq 6.0$ earthquakes in Japan during 1998–2011 J. Y. Liu, C. H. Chen and H. F. Tsai	17
VLF/LF signals method for searching of electromagnetic earthquake precursors A. Rozhnoi, M. Solovieva and M. Hayakawa	31
ICSP detections of anomalous VLF radio wave signals prior to major earthquakes S. K. Chakrabarti, S. Sasmal and S. Ray	49
Seismo electromagnetic studies in Chofu M. Hayakawa and Y. Hobara	57
Low frequency electromagnetic precursors as a prospect for earthquake prediction A. Schekotov, E. Fedorov, O. A. Molchanov and M. Hayakawa	81
Anomalous VHF radiowave transmissions as an earthquake precursor observed in the Erimo area, Hokkaido, Japan T. Moriya, T. Mogi, H. Yamashita, I. Yamamoto and M. Sato	101
Ground-based and space-based electromagnetic monitoring for pre-earthquake signals T. Bleier, C. Dunson, S. Roth, J. Heraud, A. Lira, F. Freund, R. Dahlgren, R. Bambery, N. Bryant, J. Y. (Tiger) Liu and G. Papadopoulos	113
ULF geomagnetic changes associated with major earthquakes K. Hattori	129
Geochemical and VLF-LF radio precursors of strong earthquakes: A review P. F. Biagi and A. Ermini	153