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NATURAL HAZARDS: MONITORING AND ASSESSMENT USING REMOTE SENSING TECHNIQUE

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Proceedings of the A3.2 Meeting of COSPAR Scientific Commission A, held during the Thirtieth COSPAR Scientific Assembly, Hamburg, Germany, 11-21 July 1994

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Description

This volume includes twenty-one papers which address the issue of natural hazards. Numerous remote sensing techniques are discussed and their application for monitoring and assessing the damage caused by various types of hazard are considered. The meeting provided a firm base from which to devise ways and means to develop newer technology, and to improve upon existing technologies to monitor natural hazards and thereby enhance the forewarning time which will, in turn, decrease the degree of global chaos.

Audience

For geophysicists, environmentalists, meteorologists and atmospheric physicists.

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Preface. Aerospace technology and natural disaster reduction (H. Th. Verstaappen). Remote sensing of volcanoes and their role in the global climate change (G.P. Gregori). Use of satellites to detect seismo-electromagnetic effects (M. Parrot). Application of remote sensing data in earthquake monitoring (D. Massonnet). Morpho-electronic photointerpretation support for seismic hazard (A. Cavallini, M. Marchetti). Problems of mountain hazard mapping using spaceborne remote sensing techniques (M.F. Buchroithner). SAR Integrated techniques for geohazard assessment (V. Singhroy). Small satellite constellations for disaster detection and monitoring (H. Iglseder *et al.*). Satellite remote sensing data on industrial hazards (J.R. Givri). Application of vegetation index and brightness temperature for drought detection (F.N. Kogan). Monitoring of oil spills using airborne and spaceborne sensors (K.P. Singh). Delineation of large fire damage areas in boreal forests using NOAA AVHRR measurements (G. Gutman *et al.*). Mapping of forest fire damages using imaging spectroscopy (C. Olbert *et al.*). Features of frost-affected areas from digital METEOSAT IR Images (N.R. Dalezios, E.E. Lavrediadou). Anomalous global plasma structures as seismoliospheric precursors (V.N. Oraevsky *et al.*). High energy particle flux variations as earthquake predictors (A.M. Galper *et al.*). FTIR-Spectroscopy from space: The MIRIAM mission (R. Furrer *et al.*). Ionospheric structures of anthropogeneous origin by radio-tomographic diagnostic (V.N. Oraevsky *et al.*). Many-functional dosimeter for monitoring and measuring of radiation in space and ecology research (S.V. Elizarov *et al.*). The subauroral events generated by rocket launching (V.N. Oraevsky *et al.*). Signature of atomic station at lower ionosphere as plasma anomalies of E_s layer (Yu.Ya. Ruzhin *et al.*). Author index. 7 illus., 105 line drawings, 200 lit. refs.

Bibliographic & ordering Information

Paperback, ISBN: 0-08-042619-0, 162 pages, publication date: 1995

Imprint: PERGAMON

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Last update: 30 Mar 2006

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