Record Nr. UNINA9910454436503321 **Titolo** Global and regional vegetation fire monitoring from space [[electronic resource] ]: planning a coordinated international effort / / edited by Frank J. Ahern, Johann G. Goldammer, and Christopher O. Justice The Hague, The Netherlands, : SPB Academic Pub. Pubbl/distr/stampa Monroe, N.Y., : Distributors for the USA and Canada, Library Research Associates, c2001 90-6299-797-X **ISBN** Descrizione fisica 1 online resource (314 p.) Altri autori (Persone) AhernFrank J GoldammerJ. G <1949-> (Johann Georg) JusticeC. O (Christopher O.) Disciplina 634.9/618 Soggetti Forest fires - Prevention and control - Remote sensing Fire management - Remote sensing Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and indexes. Nota di bibliografia Nota di contenuto Table of Contents; Preface; A review of the status of satellite fire monitoring and the requirements for global environmental change research: Satellite earth observation information requirements of the wildland fire management community; Towards the development of an informed global policy on vegetation fires: what role for remote sensing?; Operational use of remote sensing for fire management: regional case studies; Current state of synthesis initiatives in global vegetation fire monitoring Forest fire monitoring and mapping for GOFC: current products and information networks based on NOAA-AVHRR, ERS-ATSR, and SPOT-VGT systems Detection of fires at night using DMSP-OLS data; An overview of diurnal active fire monitoring using a suite of international geostationary satellites; Upcoming sensors for space-borne fire observation; A review of AVHRR-based active fire detection algorithms:

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Introduction Increasing conflagrations of forests and other lands throughout the world during the 1980's and 1990's have made fires in forest and other vegetation emerge as an important global concern. Both the number and severity of wildfires (accidental fires) and the application of fire for land-use change, seem to have increased dramatically compared to previous decades of the twentieth century. The adverse consequences of extensive wildfires cross national boundaries and have global impacts. Fire regimes are changing with climate variability and population dynamics. Satellite remote sensin