Record Nr. UNINA9910809174103321 Midlatitude ionospheric dynamics and disturbances / / Paul M. Kintner **Titolo** Jr. ... [et al.], editors Pubbl/distr/stampa Washington, DC,: American Geophysical Union, c2008 **ISBN** 1-118-66655-0 1-118-67238-0 1-118-67171-6 Edizione [1st ed.] Descrizione fisica 1 online resource (338 p.) Collana Geophysical monograph series, , 0065-8448; ; 181 Altri autori (Persone) KintnerPaul M Disciplina 551.51/45 Soggetti Ionosphere - Research Ionospheric storms Sudden ionospheric disturbances Space environment Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Title Page: Contents: Preface: Midlatitude Ionospheric Dynamics and Disturbances: Introduction; Section I: Characterization of Midlatitude Storms; Review and Overview; Ionospheric Storms at Mid-Latitude: A Short Review: The Mid-Latitude Trough-Revisited: Assimilation of Observations With Models to Better Understand Severe Ionospheric Weather at Mid-Latitudes: Low- and Middle-Latitude Ionospheric Dynamics Associated With Magnetic Storms: A Data-Model Comparative Study of Ionospheric Positive Storm Phase in the Midlatitude F Region; Recent Results High-Resolution Observations of Subauroral Polarization Stream-Related Field Structures During a Geomagnetic Storm Using Passive Radarlonization Dynamics During Storms of the Recent Solar Maximum; Mapping the Time-Varving Distribution of High-Altitude Plasma During Storms; Section II: Electric Field Coupling From the Heliosphere and Inner Magnetosphere; Review and Overview; Interplanetary Causes of Middle Latitude Ionospheric Disturbances; Ionospheric-

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Sommario/riassunto

Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 181. Filling the need for a 20-year lag in substantial consideration of the midlatitude ionosphere, this volume focuses on work that takes advantage of GPS and UV imaging from satellites over the past decade, two methods that have profoundly transformed our understanding of this stratum of the atmosphere. Its interdisciplinary content brings together researchers of the solar wind, magnetosphere, ionosphere, thermosphere, polar and equatorial ionospheres, and space weather. Modeling and