



## Remote Sensing Advances for Earth System Science

By Fernández-Prieto, Diego / Sabia, Roberto

Condition: New. Publisher/Verlag: Springer, Berlin | The ESA Changing Earth Science Network: Projects 2011-2013 | This book presents cutting-edge remote sensing research, outlining the advanced use of European Space Agency (ESA) satellite data in the context of climate change. The ESA, through its Support to Science Element (STSE) Programme, funds a network of young post-doc scientists pursuing 2-year cutting-edge research projects in the field of remote sensing. This "Changing Earth Science Network" focuses on the exploitation of Earth Observation (EO) data to address major issues concerning the broader context of climate change in five scientific research domains: the oceans, atmosphere, cryosphere, land and solid earth. | 1 CHIMTEA: Chemical Impact of Thunderstorms on Earth's Atmosphere.- 2 TIBAGS: Tropospheric Iodine monoxide and its coupling to Biospheric and Atmospheric variables - a Global Satellite study.- 3 Green SAR - Greenland and Antarctic grounding lines from SAR data.- 4 Sea surface roughness manifestations around ocean fronts.- 5 The impact of near-surface salinity structure on SMOS retrievals.- 6 SMASPARES--SMOS Data Assimilation for Parameter Estimation in Radiative Transfer Models.- 7 PROGRESSlon - Investigating the Prototyping of Operational Estimation of Energy Fluxes and Soil Moisture Content Using a Variant of the "Triangle" Inversion Methodology.- 8 Crustal...



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