

An Automatic Tracking System for Natural Hazard Events with Satellite Remote Sensing

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Abstract. The atmosphere satellite data for atmosphere parameters are the most important source of information for monitoring of areas without or with very rare environment research facilities. With growing dynamic of Climate change, the detailed observation, research and risk management is with a vital importance for nations in regions as the South-East Europe. Due to insufficient ground based research infrastructure and qualified personal, the satellites are main source of reliable data of atmosphere process. The presented paper describes the basic available functionalities of a system for automatic atmosphere events location and transport prediction based on available open data from NASA satellites.

Keywords: satellites; computational physics; natural events; spatial-temporal data.