Earth Observation of Ecosystem Services (Hardback)

By -

Taylor Francis Inc, United States, 2013. Hardback. Book Condition: New. 236 x 160 mm. Language: English . Brand New Book. A balanced review of differing approaches based on remote sensing tools and methods to assess and monitor biodiversity, carbon and water cycles, and the energy balance of terrestrial ecosystem. Earth Observation of Ecosystem Services highlights the advantages Earth observation technologies offer for quantifying and monitoring multiple ecosystem functions and services. It provides a multidisciplinary reference that expressly covers the use of remote sensing for quantifying and monitoring multiple ecosystem services. Rather than exhaustively cover all possible ecosystem services, this book takes a global look at the most relevant remote sensing approaches to estimate key ecosystem services from satellite data. Structured in four main sections, it covers carbon cycle, biodiversity, water cycle, and energy balance. Each section contains a review of conceptual and empirical methods, techniques, and case studies linking remotely sensed data to the biophysical variables and ecosystem functions associated with key ecosystem services. The book identifies relevant issues and challenges of assessment, presents cutting-edge sensing techniques, uses globally implemented tools to quantify ecosystem functions, and presents examples of successful monitoring programs. Covering recent developments undertaken on the global and...

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