

EARTH OBSERVATION OF ECOSYSTEM SERVICES

"Monitoring and mapping ecosystem services is critical to their effective management. This book covers the latest remote sensing techniques for doing that. A must read for anyone concerned with ecosystem services."

—**Robert Costanza**, The Australian National University

"... a broad and valuable introduction to the use of remotely sensed data sets in assessing and monitoring key ecosystem services. ... relevant to students and researchers interested in using earth observations in advancing their methods of inquiry. The subject matter is impressive, ranging from the carbon cycle to urban heat island effects. As humankind brings increasingly greater pressure to bear on natural systems, an improved understanding of their function in the context of change is critical. ... an important contribution in explaining the utility of remotely sensed data in meeting this challenge."

—**Matthew C. Hansen**, University of Maryland

"... synthesizes the state of the art of how remote sensing can contribute to get the pulse of the planet, specifically on how our ecosystems are changing and what key benefits they provide to societies. ... New conceptual approaches and techniques are synthesized. Timely, systematic, reliable, and easily accessible information on the flow of services to society from ecosystems is urgently needed: this book contributes one great leap forward. A massive effort from all nations will be needed to achieve full implementation of the suggested approach."

—**Patricia Balvanera**, Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México

"...for biodiversity and ecosystem services in situ observation cannot function without remote sensing. However, there are many earth observation systems and not every approach fits every problem. To build the global community of practice on biodiversity and ecosystem services three things are important: sharing knowledge, harmonisation of approaches and improving the observation tools. ... offers a great overview of how earth observation systems are being used, can be used in the near future and what the caveats and pitfalls are at present. ... It is one of the objectives of GEO BON to provide this overview and develop capacity building programmes for the whole community. This book is a good step into that direction."

—**Rob H.G. Jongman**, Alterra, Wageningen UR, Steering Committee GEO BON

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