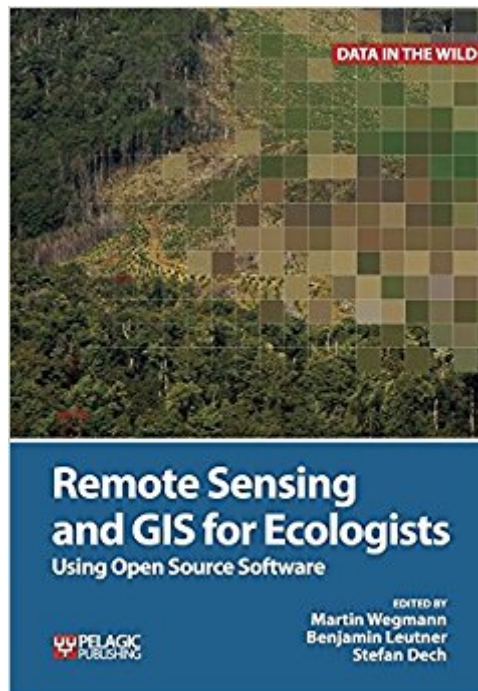




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# Remote Sensing And GIS For Ecologists: Using Open Source Software (Data In The Wild)



## Synopsis

This is a book about how ecologists can integrate remote sensing and GIS in their daily work. It will allow ecologists to get started with the application of remote sensing and to understand its potential and limitations. Using practical examples, the book covers all necessary steps from planning field campaigns to deriving ecologically relevant information through remote sensing and modelling of species distributions. All practical examples in this book rely on OpenSource software and freely available data sets. Quantum GIS (QGIS) is introduced for basic GIS data handling, and in-depth spatial analytics and statistics are conducted with the software package R. Readers will learn how to apply remote sensing within ecological research projects, how to approach spatial data sampling and how to interpret remote sensing derived products. The authors discuss a wide range of statistical analyses with regard to satellite data as well as specialised topics such as time-series analysis. Extended scripts on how to create professional looking maps and graphics are also provided. This book is a valuable resource for students and scientists in the fields of conservation and ecology interested in learning how to get started in applying remote sensing in ecological research and conservation planning. [more details on book.ecosens.org/](http://book.ecosens.org/)

## Book Information

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## Customer Reviews

Everything it was advertised to be, I just wish "Analysis and Mapping of Animal Movement in R" by Safi and Kranstauber was available. The last chapter was a little disappointing because it only

discusses one type of movement modeling ("Lagrangian methods" - radio-tracking, satellite tracking, GPS, geolocators, and rings/bands). I was looking forward to the other set ("Eulerian methods"), but it looks like I'll just have to find what I'm looking for elsewhere since the book they reference to find information on these methods hasn't been published yet.

The book offers an overview of the analysis of remote sensing optical imagery with application to conservation problems. It presents a connection between terrestrial ecology (ex. spatial species distribution, animal movement) and remote sensing data analysis. The concepts are explained for a basic to intermediate level, but slowly builds up to some more complex methods and problems. Therefore, it is a helpful guide for understanding the use of open source GIS and statistical analysis tools for remote sensing products, providing easy examples. The authors use Quantum GIS and R to run the analysis, which is something I find pretty useful since those are open source programs widely used within the scientific community. It is not only a guide in its own, but also refers to sources of information like books, internet communities or articles. I would definitely recommend this book.

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