



# Spatial Data Analysis in Ecology and Agriculture Using R

By *Richard E. Plant*



**Spatial Data Analysis in Ecology and Agriculture Using R** By Richard E. Plant

Assuming no prior knowledge of R, **Spatial Data Analysis in Ecology and Agriculture Using R** provides practical instruction on the use of the R programming language to analyze spatial data arising from research in ecology and agriculture. Written in terms of four data sets easily accessible online, this book guides the reader through the analysis of each data set, including setting research objectives, designing the sampling plan, data quality control, exploratory and confirmatory data analysis, and drawing scientific conclusions.

Based on the author's spatial data analysis course at the University of California, Davis, the book is intended for classroom use or self-study by graduate students and researchers in ecology, geography, and agricultural science with an interest in the analysis of spatial data.

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### Editorial Review

#### Review

Professor Plant presents an excellent treatise on applied (computational) spatial problems using R, and I personally thank him for this painstaking enterprise. ... Despite the availability of several nice text-books on spatial statistics covering a wide variety of topics, there was a dearth of such books mainly catered toward ecologists and agricultural scientists interested in applied exploration of spatially referenced data. Professor Plant fills this void! ... Written in a lucid language, the author did a fabulous job in properly sequencing the concept development. ... I can certainly say with confidence that this book is expected to enjoy a long shelf life. If you want to get your hands dirty with some applied spatial data analysis, I highly recommend buying it.

?Dipankar Bandyopadhyay, *Journal of Agricultural, Biological, and Environmental Statistics*, October 2012

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