

Beyond Mapping Compilation Series

Compilation of Beyond Mapping columns appearing in GeoWorld (formally GIS World) magazine 1989 to 2013

The Beyond Mapping Compilation Series extends GIS technology from mapping and geo-query to spatial statistics and analysis that investigates the spatial patterns and relationships. It presents a structured view of the important concepts, considerations and procedures involved in map analysis. The nearly two hundred monthly columns written over a twenty four year period forms an evolutionary perspective on the revolutionary elements of GIS technology that make it different from traditional map structure, content, processing and use. The discussions encourage the reader to extend the traditional role of maps from telling us “Where is What” to “Why and so what.” Within this context, maps become data and map analysis becomes the means to derive information about spatial patterns and relationships within and among map layers.

[Click here](#) for a printer-friendly version of this topic (.pdf).

Intended Audience

Beyond Mapping Compilation Series ...is an electronic collection of Joseph K. Berry's popular *Beyond Mapping* columns published in *GeoWorld* magazine from 1989 through 2013. It is intended to be used as a self-instructional text or used in support of formal academic courses for study of grid-based map analysis.

Content and Organization

This compilation series is organized into three online books—

[Beyond Mapping III](#): *A Compilation of Beyond Mapping Columns from 1996 to 2013 into 28 Topics, Introduction and Epilog*

[Beyond Mapping II](#): *A Compilation of Beyond Mapping Columns from 1993 to 1996 into 10 Topics, Introduction and Epilog*

[Beyond Mapping I](#): *A Compilation of Beyond Mapping Columns from 1989 to 1993 into 10 Topics, Introduction and Epilog*

Three hardcopy books with supplemental materials support the online compilation—

[Map Analysis](#) *Understanding Spatial Patterns and Relationships ...covers the period 1996 to 2007* (Berry, 2007; GeoTec Media Publishers)

[Spatial Reasoning](#) *for Effective GIS ...covers the period 1993 to 1996* (Berry, 1995; John Wiley Publishers)

[Beyond Mapping](#) *Concepts, Algorithms, and Issues in GIS ...covers the period 1989 to 1993* (Berry, 1993; John Wiley Publishers)

The *Map Analysis* book's companion CD-ROM contains further readings, color graphics and software for hands-on experience with the material presented. In addition, an Instructor's CD-ROM is available that contains a comprehensive set of instructional materials for use with the book supporting a variety of seminars, workshops and courses including syllabus, PowerPoint lectures, exercises, databases, and study/exam questions and answers.

Companion "Hands-On" Exercises

MapCalc software provides hands-on exercises supporting the topics in the Map Analysis book and the other books in the compilation series. Educational versions are available in student and instructor forms...

MapCalc Learner ...is a Student Tutorial Version with Exercises/databases, application demos and text; 100x100 configuration; single seat license for educational use only

MapCalc Academic ...is an Instructor Classroom Version with all of the above material plus lecture PowerPoint's, additional exercises and exam questions/answers; unlimited analysis frame configuration; multiple seat license for single computer lab; educational use only

Nearly all of the graphics in the columns were created using MapCalc (formally tMAP) and its optional software, using a standard personal computer and screen capture. MapCalc software, User's Manual, supplemental readings, exercises, tutorial databases and instructor materials are royalty free and can be downloaded from http://www.innovativegis.com/basis/MA_Workshop/MapCalc_download.htm.

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