

The GIS Guide to Public Domain Data

By Joseph J. Kerski and Jill Clark



Geospatial technology has evolved to answer specific questions, and much, if not most, of the data exists somewhere in the public domain. In an age characterized by trillions to billions of billions of bytes instead of available data and Internet access to it, obtaining geospatial data shouldn't be a problem. However, as the authors of the *GIS Guide to Public Domain Data* discover, while it is easier to use geospatial data, it is often easier to misuse it.

Joseph J. Kerski and Jill Clark have written this book to help students, researchers, and GIS professionals locate and evaluate public domain data so they can use it more intelligently and responsibly.

The authors' goal was to make readers better understand the unique characteristics of spatial data, become more aware of the organizations and institutions that produce spatial data as well as the associated



history and issues, and develop greater proficiency in working with this data to solve real-world problems.

Just because data is accessible doesn't mean it is in the public domain. Free data that was initially released into the public domain can change status when copyrighted by a third party. Before examining various sources of public data, the authors clearly what is meant by public domain and the types of copyright licensing that determine how data can be used. The United States has a tradition of making the data collected by government agencies freely available, but that is not true everywhere. Consequently, while data may be in the public domain it is sometimes not especially easy to access.

Beyond copyright and accessibility issues, questions about the appropriateness of the data for addressing the problem at hand must also be assessed. The next five chapters discuss the strengths and limitations of data in terms of format and source. Understanding the characteristics of data formats allows their suitability and quality to be better assessed. Why an organization originally collected a dataset often determines characteristics such as accuracy, precision, and currency that are important when evaluating the suitability of a dataset for a specific use.

The authors note that free data is not really free, because labor costs are typically associated with processing the data before it can be used. Data preparation is a real cost. When this involves miscommunication, it can be more cost effective to derive data from a reader.

The seventh chapter explains how to use public domain data in a project, looks at how to choose the right data and software tools and shows any ethical concerns and measures the success of a project.

The final three chapters consider the impact of new phenomena, such as data used as data product and the rise of cloud computing, as well as the future of public domain data.

Many resources for additional information contained in articles, papers, and guidelines are highlighted throughout the text. Online resources provide a reality check for readers. They experience the benefits and frustration of working with public domain data to solve real-world problems. (This book assumes the reader has intermediate skills with ArcGIS for Desktop.)

This approach to understanding public domain data is both comprehensive and systematic. It presents a wealth of detailed information in one handy reference.

The book's authors both have backgrounds in GIS. Kerski, education manager for Esri, has been a geographer and cartographer at the National Oceanic and Atmospheric Administration, the US Census Bureau, and the US Geological Survey. He is past president of the National Council for Geographic Education. Clark, a freelance consultant and technical writer, has worked in many areas of GIS, including application development and implementation, software development, server problems, and technical writing. *Esri Press*, 2012, 304 pp., \$39.95, 978-1-58948-044-9

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**Abresch, John, Hanson, Ardis, Heron,
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Table of Contents The Gis Guide To Public Domain Data

1. Understanding the eBook The Gis Guide To Public Domain Data
 - The Rise of Digital Reading The Gis Guide To Public Domain Data
 - Advantages of eBooks Over Traditional Books
2. Identifying The Gis Guide To Public Domain Data
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Gis Guide To Public Domain Data
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Gis Guide To Public Domain Data
 - Personalized Recommendations
 - The Gis Guide To Public Domain Data User Reviews and Ratings
 - The Gis Guide To Public Domain Data and Bestseller Lists
5. Accessing The Gis Guide To Public Domain Data Free and Paid eBooks
 - The Gis Guide To Public Domain Data Public Domain eBooks
 - The Gis Guide To Public Domain Data eBook Subscription Services
 - The Gis Guide To Public Domain Data Budget-Friendly Options

6. Navigating The Gis Guide To Public Domain Data eBook Formats
 - ePub, PDF, MOBI, and More
 - The Gis Guide To Public Domain Data Compatibility with Devices
 - The Gis Guide To Public Domain Data Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Gis Guide To Public Domain Data
 - Highlighting and Note-Taking The Gis Guide To Public Domain Data
 - Interactive Elements The Gis Guide To Public Domain Data
8. Staying Engaged with The Gis Guide To Public Domain Data
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Gis Guide To Public Domain Data
9. Balancing eBooks and Physical Books The Gis Guide To Public Domain Data
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Gis Guide To Public Domain Data
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine The Gis Guide To Public Domain Data
 - Setting Reading Goals The Gis Guide To Public Domain Data
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of The Gis Guide To Public Domain Data
 - Fact-Checking eBook Content of The Gis Guide To Public Domain Data
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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