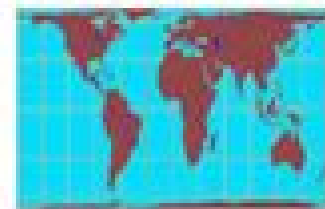


Projection Results

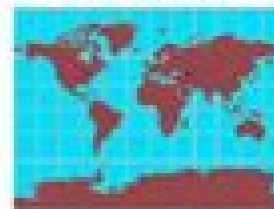
- Any type of map projection will result in some distortion of the area being mapped.
- Each of the projections have strengths and weaknesses.



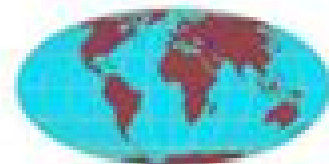
Mercator Projection



Gall-Peters Projection



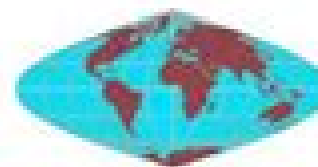
Miller Cylindrical Projection



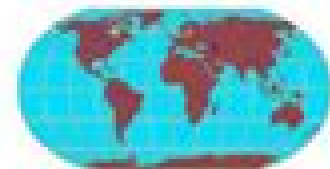
Mollweide Projection



Goode's Homaloidal Equal-area Projection



Sinusoidal Equal-Area Projection



Robinson Projection

Understanding Map Projections

Miljenko Lapaine, E. Lynn Usery



Understanding Map Projections:

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ArcGIS 9, 2004 Includes brief discussion of the primary projected coordinate systems which can be used with ArcGIS

Working with Map Projections Fritz Kessler, Sarah Battersby, 2019-05-03 A map projection fundamentally impacts the mapmaking process Working with Map Projections A Guide to Their Selection explains why for any given map there isn't a single best map projection Selecting a projection is a matter of understanding the compromises and consequences of showing a 3 D space in two dimensions The book presents a clear understanding of the processes necessary to make logical decisions on selecting an appropriate map projection for a given data set The authors discuss the logic needed in the selection process describe why certain decisions should be made and explain the consequences of any inappropriate decision made during the selection process This book also explains how the map projection will impact the map's ability to fulfill its purpose uses real world data sets as the basis for the selection of an appropriate map projection and provides illustrations of an appropriately and inappropriately selected map projection for a given data set The authors take a novel approach to discussing map projections by avoiding an extensive inventory of mathematical formulae and using only the mathematics of map projections that matter for many mapping tasks They also present information that is directly applicable to the process of selecting map projections and not tied to a specific software package Written by two leading experts this book is an invaluable resource for anyone studying or working with geospatial data from students to experienced professionals and will help readers successfully weigh the pros and cons of choosing one projection over another to suit a map's intended purpose

Choosing a Map Projection Miljenko Lapaine, E. Lynn Usery, 2017-04-04 This book offers a much needed critical approach to the intelligent use of the wide variety of map projections that are rapidly and inexpensively available today It also discusses the distortions that are immanent in any map projection A well chosen map projection is one in which extreme distortions are smaller than those in any other projection used to map the same area and in which the map properties match its purpose Written by leading experts in the field including W Tobler F C Kessler S E Battersby M P Finn K C Clarke V S Tikunov H Hargitai B Jenny and N Fran ula This book is designed for use by laymen The book editors are M Lapaine and E L Usery Chair and Vice Chair respectively of the ICA Commission on Map Projections for the period 2011-2015

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includes improved coverage of migration and industry and new animations to support each chapter *ArcGIS 9*
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geographic information systems GIS for handling and manipulating data mean that we no longer must rely on paper maps
from a single source but can acquire combine and customize spatial data as needed To ensure quality results however one
must fully understand the diverse coordinate frameworks upon which the data are based *Datums and Map Projections*
provides clear accessible explanations of the terminology relationships transformations and computations involved in
combining data from different sources The first half of the book focuses on datums exploring different coordinate systems
and datums including two and three dimensional representations of Earth coordinates and vertical datums After an overview
of the global positioning system GPS the author introduces the fundamentals of map projections and examines the different
types He then presents models and procedures for transforming directly between data sets The final chapter presents case
studies of projects that illustrate the types of problems often encountered in practice Newcomers to the field will welcome
this treatment that instead of detailed mathematics uses lucid explanations and numerous examples to unravel the
complexities of the subject For more experienced readers the book is a valuable reference that answers specific questions
and imparts a better understanding of transformation operations and principles Features *Map Use & Analysis* John
Campbell, 1998 This book is designed to serve as an introduction to the fascinating world of maps It explains how to use maps
to obtain information about a wide variety of topics Throughout the book maps are viewed in a broad framework Thus the
discussion includes mental maps aerial photographs remotely sensed images computer assisted cartography and
geographical information systems in addition to traditional printed maps The writing style is neither formalistic nor casual
with an emphasis on clarity of explanation The discussions assume that the reader has no specific prior knowledge of the
topic so that even novice map users can understand and use the information and techniques presented **A Little Book on**
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