

The GEBCO Cookbook: A Progress Report

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At the GEBCO 25th meeting of the Technical Sub-Committee on Ocean Mapping (TSCOM) in September, 2009, a "Cookbook Working Group" was formed to write a "cookbook" to nurture and guide nascent regional mapping projects.

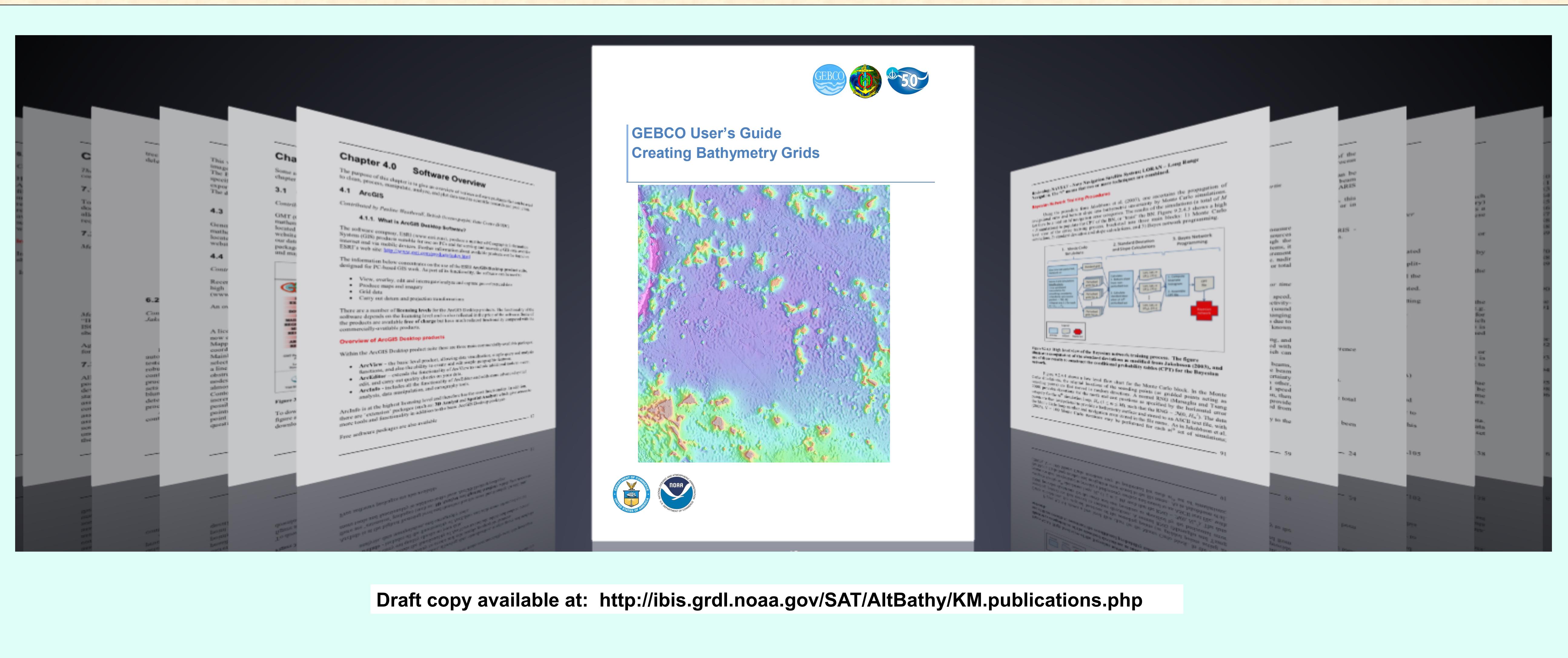
- The cookbook has become the "GEBCO User's Guide: Creating Bathymetry Grids"
- Step-by-step manual enables users to prepare and grid data for inclusion in GEBCO bathymetry products
- Contributors are scientific experts from international research organizations, universities, governments, and companies
- The guide is a "living document" as new contributions come in, the guide is updated electronically
- The guide will be made freely available on the GEBCO website.

Progress to date

- The User's Guide was created in Microsoft Word and converted into a PDF file that enables bookmark navigation
- As additional contributions are made, the Microsoft Word document is updated and a new PDF file with updated bookmarks is created
- A draft of the GEBCO User's Guide has been developed
- Researchers from a dozen institutions have submitted contributions which have been incorporated into the guide as chapters

Work to be done

- Obtain more contributions
- Complete chapters
- Transition from draft version to working document
- Make working document available on GEBCO website



Draft copy available at: <http://ibis.grd.noaa.gov/SAT/AltBathy/KM.publications.php>

Cookbook Working Group	Contributing Institutions	Overview: Table of Contents	Additional content is welcomed!																																																																																
<p>Nastia Abramova Chris Amante James Braud Juan Brown Barry Eakins Paul Elmore Robin Falconer Chris Fox Bruce Goleby John Hall Rob Hare Benjamin Hell Colin Jacobs Martin Jakobsson Izabel Jeck Megan Jones Marie-Francoise Lalancette Matt Love Karen Marks Mark Masry</p> <p>NOTE: You are welcome to join! Please contact Karen.Marks@noaa.gov</p>	<p>Dave Monahan Eric Moussat Norbert Ott Tony Pharaoh William Rankin Hans Werner Schenke Walter Smith Shin Tani Lisa Taylor Paola Travaglini Jesse Varner John VonRosenberg Pauline Weatherall Rochelle Wigley Jin Ji Ye</p> <p>Contributors:</p> <p>NOAA Laboratory for Satellite Altimetry http://ibis.grd.noaa.gov</p> <p>Center for Coastal & Ocean Mapping Joint Hydrographic Center University of New Hampshire http://ccom.unh.edu</p> <p>Cooperative Institute for Research in Environmental Sciences (CIRES) University of Colorado at Boulder NOAA National Geophysical Data Center http://www.ngdc.noaa.gov</p> <p>Naval Research Laboratory http://www.nrl.navy.mil</p> <p>Geological Survey of Israel http://www.gsi.gov.il</p> <p>Canadian Hydrographic Service http://www.charts.gc.ca</p> <p>British Oceanographic Data Centre (BODC) http://www.bodc.ac.uk</p> <p>Department of Geology and Geochemistry Stockholm University http://www.su.se</p> <p>Directorate of Hydrography and Navigation (DHN) Center of Hydrography and Navigation (CHN) Brazilian Navy http://www.mar.mil.br/dhn/</p> <p>CARIS Geospatial Software Solutions http://www.caris.com</p> <p>International Hydrographic Bureau http://www.lio-oh.net</p> <p>Geological Institute of Russian Academy of Sciences Laboratory of Geomorphology and Ocean Floor Tectonics http://atlantic.ginras.ru/index.html</p>	<p>Table of Contents</p> <table border="0"> <tr><td>Table of Contents</td><td>3</td></tr> <tr><td>List of Figures</td><td>6</td></tr> <tr><td>List of Tables</td><td>7</td></tr> <tr><td>Chapter 1.0 Purpose</td><td>8</td></tr> <tr><td>Chapter 2.0 Introduction</td><td>9</td></tr> <tr><td>Chapter 3.0 Gathering Software</td><td>10</td></tr> <tr><td> 3.1 Generic Mapping Tools</td><td>10</td></tr> <tr><td>Chapter 4.0 Software Overview</td><td>12</td></tr> <tr><td> 4.1 What is ArcGIS Desktop Software?</td><td>12</td></tr> <tr><td> 4.1.1 Overview of ArcGIS Desktop products</td><td>12</td></tr> <tr><td> 4.1.2 Is the software free, what licenses are available and how can you access the software?</td><td>12</td></tr> <tr><td> 4.1.3 What type of computer platform does it run on?</td><td>13</td></tr> <tr><td> 4.1.4 What are the system requirements for running ArcGIS Desktop applications?</td><td>13</td></tr> <tr><td> 4.1.5 Where do I download ArcGIS Desktop applications?</td><td>13</td></tr> <tr><td> 4.1.6 What formats and structures does ESRI ArcGIS Desktop store data?</td><td>14</td></tr> <tr><td> 4.1.7 How do you work with your data in ArcGIS Desktop packages – do you have to reformat it?</td><td>16</td></tr> <tr><td> 4.1.8 Can I create a 3D surface from your source data sets?</td><td>17</td></tr> <tr><td> 4.1.9 Working with 3D surfaces</td><td>18</td></tr> <tr><td> 4.1.10 Viewing and editing your data in ArcMap</td><td>19</td></tr> <tr><td> 4.1.11 How can I get help with using the software?</td><td>23</td></tr> <tr><td> 4.2 CARIS HIPS (Hydrographic Information Processing System)</td><td>23</td></tr> <tr><td> 4.2.1 Introduction</td><td>23</td></tr> <tr><td> 4.2.2 Acknowledgments</td><td>24</td></tr> <tr><td> 4.2.3 HIPS Workflow</td><td>24</td></tr> <tr><td> 4.2.4 Project Data Tree and General Information</td><td>25</td></tr> <tr><td> 4.2.5 HIPS Workflow-Detailed</td><td>27</td></tr> <tr><td> 4.3 Generic Mapping Tools (GMT)</td><td>27</td></tr> <tr><td> 4.3.1 12v GMT</td><td>28</td></tr> <tr><td> 4.3.2 AbleSoft Corporation's P2 (raster to vector)</td><td>28</td></tr> <tr><td> 4.3.3 Global Mapper Software LLC - Global Mapper 12</td><td>28</td></tr> <tr><td> 4.3.4 Golden Software Inc. 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Contributed

In progress

Input needed