# DVD

## Summary of Contributions
## *Manual of Geographic Information Systems*

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**Table 1** ASPRS Manual of GIS DVD Contributors.

| Contributors | Contact | E-Mail |
|---|---|---|
| 1. ERDAS, Inc. IMAGINE | Amy Zeller | Amy.Zeller@erdas.com |
| 2. Environmental Systems Research Institute, Inc. (ESRI ) | Fred Woods | fwoods@esri.com |
| 3. Interactive Visualization Systems (IVS 3D) | Erin Heffron | eheffron@ivs3d.com |
| 4. National Oceanic and Atmospheric Administration (NOAA) | Meredith Westington | Meredith.Westington@noaa.gov |
| 5. Science Applications International Corporation (SAIC ) | J. Chris McGlone | mcglonej@saic.com |
| 6. San Diego State University (SDSU) | Tong Zhang and Ming-Hsiang Tsou | zhangt@rohan.sdsu.edu |
| 7. University of California, Santa Barbara (UCSB) | Michael Goodchild | good@geog.ucsb.edu |
| 8. U.S. Geological Survey (USGS), Center of Excellence for Geospatial Information Science (CEGIS) | E. Lynn Usery and Michael P. Finn | usery@usgs.gov |
| 9. University of Plymouth, UK | Maged N. Kamel Boulos | mnkamelboulos@plymouth.ac.uk |
| 10. University of Georgia and Florida State University | C.P. Lo and Xiaojun Yang | xyang@fsu.edu |
| 11. U.S. Geological Survey and College of Environmental Science and Forestry, State University of New York | Raymond Watts and Giorgos Mountrakis | rwatts@usgs.gov gmountrakis@esf.edu |

**Table 2** Contributions from ERDAS, Inc.

| Topics | Content |
|---|---|
| 1.1 Data Sharing with ERDAS TITAN | Movies on loading and sharing data via the TITAN Client, and administering a TITAN GeoHub |
| 1.2 Introduction to ERDAS ADE | Real time enterprise data editing in the field |
| 1.3 ERDAS IMAGINE Objective | Movies on object-based, multi-scale classification and feature extraction capabilities |
| 1.4 ERDAS Image Web Server (IWS) | A high-speed, specialized server for large images and many users |
| 1.5 ERDAS Photogrammetry: LPS | Stereo feature extraction and FeatureAssist for ArcGIS |
| 1.6 ERDAS Stereo Analyst for ArcGIS | Real stereo feature extraction within ArcGIS |

**Table 3** Contributions from Interactive Visualization Systems (IVS 3D).

| Topics | Content |
|---|---|
| 3.1 iView3D | Cross-platform free interactive 3D viewer for files in the Fledermaus format |
| 3.2 Samples | Plymouth UK_ShallowSurvey2005.scene |

**Table 4** Contributions from NOAA.

| Topic | Content |
|---|---|
| 4.1 Exclusive Economic Zone (EEZ) | EEZ off of Alaska; American Samoa and Puerto Rico; U.S. Virgin Islands; Atlantic Coast; Gulf of Mexico; Hawaiian Islands; Howland and Baker Islands; Jarvis Island; Johnston Atoll; Northern Mariana Islands; Palmyra Atoll and Kingman Reef; Wake Island and Pacific Coast. |
| 4.2 Three Nautical Mile Line and Natural Resources Boundary | Three nautical mile line and natural resources boundary limits of Alaska; California; Florida and Alabama; Georgia; Hawaiian Islands; Howland, Baker, and Jarvis Islands; Johnston Atoll; Massachusetts and New Hampshire; Maine; Mississippi and Louisiana; New Jersey, Delaware, and Maryland; Northwestern Hawaiian Islands; Oregon and Washington; Puerto Rico and the U.S. Virgin Islands; Rhode Island and New York; Texas; Virginia; North Carolina and South Carolina; and Wake Island. |

**Table 5** Contributions from SAIC.

| Topics | Content |
|---|---|
| 3D Urban Model of Los Angeles | The DEM, relief-shaded version of DEM, buildings, tree locations, road centerlines, pan-sharpened DigitalGlobe Quickbird imagery and Flythrough of Los Angeles |

**Table 6** Contributions from San Diego State University (SDSU).

| Topics | Content |
|---|---|
| Internet GIS Applications | Java scripts and examples of internet GIS development and applications including development of open source GIS tools, geovisualization and GIS library at San Diego State University |

**Table 7** Contributions from the University of California, Santa Barbara (UCSB).

| Topics | Content |
|---|---|
| Lecture and Lab Notes | Michael Goodchild's GIScience and GISystems' class and lab exercises at the University of California, Santa Barbara |

**Table 8** Contributions from U.S. Geological Survey (USGS), Center of Excellence for Geospatial Information Science (CEGIS).

| Topics | Content |
|---|---|
| 8.1 CEGIS Animations 1 | Simulating sea level rise and surges with geographic information datasets and animation methods |
| 8.2 CEGIS Research Examples | Approximating tasseled-cap values for the Advanced Land Imager (ALI), characterizing impact structures using high-resolution LiDAR derived DEMs, interpolating Missouri population pressure on urbanizing natural areas |

**Table 9** Contributions from ESRI, Inc.

| Topics | Content |
|---|---|
| 9.1 GIS and Web GIS | Volunteered geographic information, Open Geospatial Consortium (OGC) standards and consumer geospatial technologies provide opportunities for sharing maps and enterprise web services. |
| 9.2 ArcGIS Enterprise Image Management | An ESRI white paper: An overview of imaging capabilities with emphasis on those added as part of ArcGIS9.2 and 9.3. |
| 9.3 Interesting ESRI Links | A number of URLs related to ESRI software, service and products |

**Table 10** Contributions from University of Plymouth, UK
Note: Double click "Index.htm" to launch interface to WebGIS applications listed below.

| Topics | Content |
|---|---|
| 9.1 Example of interactive SVG maps | SVG is a World Wide Web Consortium non-proprietary, XML-based vector graphics format. This example includes: 1) interactive SVG maps of diagnoses of diseases; and 2) an Open Access article by Boulos et al.( 2005). For further information, see Chapter 49.<br><br>Boulos, M.N.K, C. Russell and M. Smith, 2005. Web GIS in practice II: Interactive SVG maps of diagnoses of sexually transmitted diseases by Primary Care Trust in London, 1997-2003, *International Journal of Health Geographics* 4(4): 12 p. |
| 9.2 Example of Google Earth and Microsoft Virtual Earth WebGIS | This example of WebGIS includes: 1) a simple interactive map using Google Maps Application Programming Interface (API), Google Earth Keyhole Markup Language (KML) and Microsoft (MSN) Virtual Earth Map Control; and 2) an Open Access article by Boulos (2005). For further information, see Chapter 49.<br><br>Boulos, M.N.K, 2005. Web GIS in practice III: creating a simple interactive map of England's Strategic Health Authorities using Google Maps API, Google Earth KML, and MSN Virtual Earth Map Control, *International Journal of Health Geographics* 4(22): 8 p. |
| 9.3 Example of web-based interactive maps and geographic interface | Examples of: 1) web-based interactive maps of English Primary Care Trust performance ratings; 2) geographic interface to healthcare information; and 3) an Open Access article by Boulos (2004). For further information, see Chapter 49.<br><br>Boulos, M.N.K, 2004. Web GIS in practice: an interactive geographic interface to English Primary Care Trust performance ratings for 2003 and 2004, *International Journal of Health Geographics* 3(16): 7 p. |
| 9.4 Open Source GIS tutorial | Contents include: 1) step-by-step illustrated tutorial of Open Source GIS; and 2) an Open Access article by Boulos and Honda (2006). For further information, see Chapter 49.<br><br>Boulos, M.N.K. and K. Honda, 2006. WebGIS in practice IV: publishing your health maps and connecting to remote WMS sources using the Open Source UMN MapServer and DM Solutions MapLab, *International Journal of Health Geographics* 5(6): 7 p. |

**Table 11** Contributions from University of Georgia and Florida State University

| Topics | Content |
|---|---|
| 10.1 Simulation of urban growth in Atlanta, Georgia (2000-2050), Scenario 1 | Scenarios of results from cellular automaton models and GIS to simulate urban growth in Atlanta, Georgia (2000 – 2050) and animated urban growth and land use change in Atlanta, Georgia for1974 to 1999. For further information, see Chapter 32. |
| 10.2 Simulation of urban growth in Atlanta, Georgia (2000-2050), Scenario 2 | |
| 10.3 Simulation of urban growth in Atlanta, Georgia (2000-2050), Scenario 3 | |
| 10.4 Animation of urban growth and land use change in Atlanta, Georgia: 1974-1999. | |

**Table 12** Contributions from U.S. Geological Survey College of Environmental Science and Forestry, State University of New York

| Topics | Content |
|---|---|
| 11.1 Animation of urban growth | Movie animation showing loss of roadless volume due to urban expansion along the Front Range near Denver, Colorado and more widespread loss in small fragments farther north of Denver: 1937-1997. For further information, see Chapter 34. |