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MARMAP System Partnership

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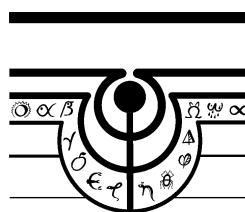
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MARMAP SYSTEM PARTNERSHIP

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Geospatial data form the foundation of an information-based society. Consider a 21st Century digital government scenario of the following nature: What messages do multicategorical thematic maps and cellular surfaces have about the large landscapes they represent? And at what scale and at what level of detail?...Does the spatial pattern of the map reveal any societal, ecological, environmental condition of the landscape? And therefore can it be an indicator of change?...How do you automate the assessment of the spatial structure and behavior of change to discover critical areas, hot spots, and their corridors?...Is the map accurate? How accurate is it? How do you assess the accuracy of the map? Of the change map over time for change detection? What are the implications of the kind and amount of change and accuracy on what matters, whether climate change, carbon emission, water resources, urban sprawl, biodiversity, indicator species, or early warning? And with what confidence, even with a single map/change-map?

A primary purpose of MARMAP System Partnership is to develop sound methodology and appropriate software for the quantitative analysis and interpretation of multi-categorical maps and cellular surfaces (inferential geospatial informatics) involving landscape pattern analysis, multiscale landcover landuse change detection, accuracy assessment, critical area detection and delineation, disease mapping and geographic surveillance, prioritization and ranking without having to integrate multiple indicators, and a few more. It will be nice to see you participate in one capacity or the other. The following websites give recent publications together with some relevant exciting events.

Please feel free also to share this material with your potentially interested friends and colleagues.

1. MARMAP and MARMAP Prospectus 1, 2, 3, 4, 5, 6, 7, 8, 9.

Website: <http://www.stat.psu.edu/~gpp/newpage11.htm>

2. Multiscale Advanced Raster Map Analysis System: Definition, Design, and Development. Invited Paper for Joint Statistical Meetings (New York City), Portuguese Statistical Congress, International Environmetrics Society, Brazilian Ecological Congress, and Italian Ecological Society. Website:

<http://www.stat.psu.edu/~gpp/PDFfiles/TR2002-0203.pdf>

3. Project MARMAP System Partnership Collaboration with EPA STAR Grant Atlantic Slope

Consortium for Development, Testing, and Application of Ecological and Socioeconomic Indicators for Integrated Assessment of Atlantic Slope in the mid-Atlantic states.

Website: http://es.epa.gov/ncer_abstracts/grants/00/envind/brooks.html

4. Project MARMAP System Partnership Collaboration with UNEP Division of Early Warning and Assessment on Human Environment Index based on Countrywide Land, Air, and Water Indicators.

Website: http://www.stat.psu.edu/~gpp/current_events.htm

5. Project MARMAP Show and Tell Seminar series: EPA ORD NCEA, EPA ORD NERL, EPA OEI, NASA HQ, NASA GSFC, NCHS, NYSDEH; UMD, GWU, UCB, MSU, UM, SUNY SPH.

Website (Powerpoint Presentations): <http://www.stat.psu.edu/~gpp/powerpoint.htm>

6. Ecosystem Health and Its Measurement at Landscape Scale: Towards the Next Generation of Quantitative Assessments. Invited Paper for Ecosystem Health, International Society for Ecosystem Health. Website: <http://www.stat.psu.edu/~gpp/PDFfiles/TR2002-0202.pdf>

7. Multiscale Advanced Raster Map Analysis System for Measurement of Ecosystem Health at Landscape Scale: A Novel Synergistic Consortium Initiative. Invited Paper for Managing for Healthy Ecosystems, International Society for Ecosystem Health.

Website: <http://www.stat.psu.edu/~gpp/PDFfiles/TR2002-0301.pdf>

8. Washington DC Conference on Linkages Between Biodiversity, Ecosystem Health, and Human Health, June 6-11, 2002. A Special Session on Ecosystem Health and Its Measurement at Landscape Scale. June 10, 10:00AM - 12:00Noon.

Website: http://www.stat.psu.edu/~gpp/current_events.htm

9. Joint Statistical Meetings on Statistics in Era of Technological Change, August 11-15, 2002, New York City. A Special Session on Multiscale Advanced Raster Map Analysis System for Digital Government in the 21st Century. August 13, 2:00PM - 3:45 PM.

Website: http://www.stat.psu.edu/~gpp/current_events.htm

10. Short Course and Research Workshop on Multiscale Advanced Raster Map Analysis System for the Map of Italian Nature, University of Parma, Parma, Italy, June 21-22, 2002. Website:

http://www.stat.psu.edu/~gpp/current_events.htm