

Summary of the *Geocarto International* Special Issue on “NASA Earth Science Satellite Data for Applications to Public Health” to be Published in Early 2014

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At the 2011 Applied Science Public Health review held in Santa Fe, NM, it was announced that Dr. Dale Quattrochi from the NASA Marshall Space Flight Center, John Haynes, Program Manager for the Applied Sciences Public Health program at NASA Headquarters, and Sue Estes, Deputy Program Manager for the NASA Applied Sciences Public Health Program located at the Universities Space Research Association (USRA) at the National Space Science and Technology Center (NSSTC) in Huntsville, AL, would edit a special issue of the journal *Geocarto International* on “NASA Earth Science Satellite Data for Applications to Public Health”. This issue would be focused on compiling research papers that use NASA Earth Science satellite data for applications to public health. NASA’s Public Health Program concentrates on advancing the realization of societal and economic benefits from NASA Earth Science in the areas of infectious disease, emergency preparedness and response, and environmental health (e.g., air quality). This application area as a focus of the NASA Applied Sciences program, has engaged public health institutions and officials with research scientists in exploring new applications of Earth Science satellite data as an integral part of public health decision- and policy-making at the local, state and federal levels. Of interest to this special issue are papers submitted on are topics such as epidemiologic surveillance in the areas of infectious disease, environmental health, and emergency response and preparedness, national and international activities to improve skills, share data and applications, and broaden the range of users who apply Earth Science satellite data in public health decisions, or related focus areas.. This special issue has now been completed and will be published n early 2014. This talk will present an overview of the papers that will be published in this special *Geocarto International* issue. The authors and titles of the 7 papers in this issue are:

- Climate Change and Human Health: NASA and Center for Disease Control (CDC) Collaborate to Develop New Tools. (Invited) George Luber (CDC)
- Use of Earth Observations in Public Health (Invited). Qihao Weng (Indiana State U.), Bing Xu, (U. of Utah), Xuefei Hu (Beijing Normal U.), and Hua Liu (Old Dominion U.)
- Improving Decision-Making Activities for Meningitis and Malari. Pietro Ceccato (Earth Science Institute, Columbia U.)
- Meteorological parameters as predictors for seasonal influenza. Rabina P. Soebiyanto (USRA/GSFC) and Richard Kiang (NASA/GSFC).
- Statistical Data Fusion of Multi-sensor AOD over the Continental United States. Sweta Jinnagara Puttaswamy (Emory U.), Hai. M. Nguyen (Jet Propulsion Laboratory), Amy Braverman (JPL), and Yang Liu (Emory U.).
- Spatiotemporal Variations in Heat-Related Health Risk in Three Midwestern U.S. Cities Between 1990 and 2010. John Webber, Daniel P. Johnson, and Vijay Lulla (Indiana University/Purdue University at Indianapolis).
- Environmental Public Health Applications Using Remote Sensed Data. Mohammad Al-Hamdan (USRA/NSSTC), William Crosson (USRA/NSSTC), Sigrid Economou (CDC), Maury. Estes (USRA/NSSTC), Sue. Estes (USRA/NSSTC), Sarah Hemmings (USRA/NSSTC), Shia Kent U. of Alabama at Birmingham), Mark Puckett (UAB), Dale Quattrochi (NASA/MSFC), Doug Rickman (NASA/MSFC), Gina Wade (Von Braun Center for Science and Industry/Huntsville, AL) and Leslie McClure (UAB).