

## **Progress report: 24-hour gridded population models**

Prof. David Martin, School of Geography, University of Southampton, Southampton, SO17 1BJ,UK

### **Abstract**

At the 2009 EFGS meeting in The Hague, a conceptual model and examples were presented for the development of time-specific population grid models. Based on an initial base of small area census data, a range of emerging data sources were identified which provide geospatial information on the location of population across different time-cycles (daily, weekly, seasonal, etc.), making it possible to consider construction of population grids which are time-specific to particular application needs. With funding from the UK Economic and Social Research Council, this project has now been advanced through the linkage of multiple georeferenced data sources, including places of residence, employment, education, health and transportation. Syntax has been developed for the description of the key spatio-temporal characteristics and new software written. This paper will provide an update both on practical implementation progress and broader lessons learned concerning time-specific grid models.