



Developing automatic interpolation services: experiences from the INTAMAP FP6 project

E. J. Pebesma (1), K. Henneböhl (1), and J. O. Skøien (2)

(1) Institute for Geoinformatics, University of Munster, Germany (edzer.pebesma@uni-muenster.de, k.henneboehl@uni-muenster.de), (2) Utrecht University, Department of Physical Geography, Utrecht, Netherlands (j.skoien@geo.uu.nl)

Usually, interpolation provides estimates on a regular grid based on measurements taken on irregularly spaced points. In an OWS (OGC web services) architecture this implies that we take observations from a WFS or SOS and provide data through a WCS or WMS. The paper will address opportunities and shortcomings of the existing standards for the purpose of developing, and then operationally using, an automatic interpolation service. It will also present first results and give an overview of the functionality of the the automatic interpolation service which is one of the main deliverables of the INTAMAP FP6 project. Representing interpolation (or more general: modelling) error distributions through OWS have been addressed by developing UncertML. Experiences and use cases for interpolating gamma dose rates as well as air quality parameters will be presented.