

Introduction to poster:

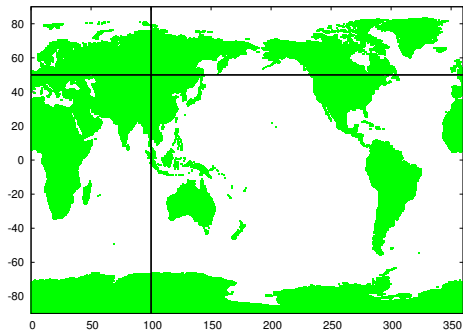
Assessment of Strategies for Spatial Atmospheric Parameter Interpolation

EUREF 2013 Symposium 29 - 31 May, 2013 Budapest, Hungary

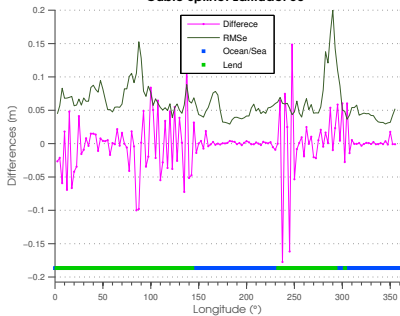
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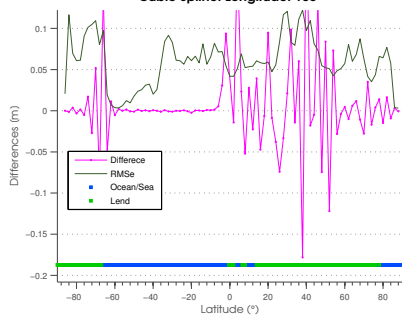
- In GNSS and meteorology there are many problem or situations requiring the use of interpolation techniques.
- In the poster, we test different interpolation techniques for zenith hydrostatic delays in a global grid available from VMF1 model.
- Three techniques were selected:
 - spatial bi-linear interpolation technique,
 - interpolation technique using cubic spline functions,
 - kriging spatial interpolation.



Cubic Spline: Latitude: 50 °



Cubic Spline: Longitude: 100 °



- The experiment showed that the accuracy of all tested methods was similar,
- We may assume that (according to process of computing and results of interpolation):
 - bi-linear method with the simplest algorithms could be very effective (speed of computing),
 - cubic spline interpolation is the most accurate,
 - kriging technique can be very helpful for many other situations (regular and irregular data can be combined)
- more in poster ...