



Estimating errors and error-correlations in geodetic research - my own example

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In geodesy estimates of errors and error-correlations is as important as finding the numerical value of the quantity to be estimated. This is also important when evaluating the quality of a scientific result presented in a publication.

Examples of typical errors in the authors own publications shows that 2 % of the publications contain gross errors. Examples of errors - which never were detected by reviewers or editors - will be presented.

Recent work on error and error-correlation estimates of potential coefficients estimated from expected GOCE data show patterns where only coefficients of the same order have error-correlations which effectively are non-zero. The question is raised whether this is due to the isotropy of a-priori signal and error-covariances associated with the high inclination of the GOCE orbit.

Key-words: geodesy, error-covariances, publication errors.