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Solutions of inverse problem of gravimetry on the sphere using "native" wavelet transform

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Abstract

© SGEM2014 All Rights Reserved. In this study we present a method for interpretation of gravimetric data obtained on spherical surface based on wavelet transform with the so-called "native" wavelet basis. We show that this approach has several distinct advantages over commonly used methods, including a simple way of obtaining formal solutions of the inverse problem and easy identification of the causative sources.

Keywords

Gravimetry, Inverse problem, Wavelet transform