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Some mass migration underground found in China

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Relation between the change of a local gravity field and the mass migration underground is discussed by means of using a point-source disturbed body as a substitute of the latter. Some significant local gravity field changes in China, at Beijing and Yunnan for example, have been found, from which three parameters of the disturbed bodies, location, depth and mass have been derived successfully from the observations of a gravimetric network there. In order to determine the depth of a body, a new approach is suggested in which the gravity change difference is used instead of the gravity change itself. The mass of a disturbed body has also been estimated properly afterwards. The results provide us a picture of the underground with which the relationship between earthquakes and gravity changes on ground may be interpreted in a better way, as well as a new approach in predicting earthquake is being suggested in the paper.

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