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Earth Sciences : Geophysics / Geodesy

Yi, Shuang

Application of Satellite Gravimetry to Mass Transports on a Global Scale and the Tibetan Plateau

- Nominated as an outstanding PhD thesis by the Chinese Academy of Sciences
- Explores multiple perspectives on changes in global mass transports
- Provides a systematic discussion on mass change in Tibet
- Reveals the tremendous deterioration of the global environment

This thesis provides multidisciplinary perspectives on changes in global mass transports, especially in the global water cycle. It investigates the current time-varying states regarding global sea level, terrestrial water storage, mountain glacier mass and highland crustal deformation, drawing on fifteen years of satellite gravimetry observation to do so. The results reveal tremendous changes in various aspects of the global environment, which are due to both anthropogenic and natural factors. Further, the research presented here sheds new light on underlying connections and mechanisms in the global mass transport system.

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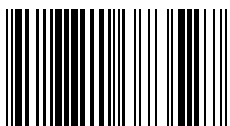
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