1. Record Nr. UNINA9910350333803321

Autore	Yi Shuang
Titolo	Application of Satellite Gravimetry to Mass Transports on a Global Scale and the Tibetan Plateau / / by Shuang Yi
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-7353-1
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XV, 143 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	550 526.1
Soggetti	Geophysics Hydrogeology Oceanography Climate change Geophysics/Geodesy Climate Change
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Data -- Mass inversion method of GRACE data -- Global sea level change -- Terrestrial water storage change in Asia -- Glacial and tectonic mass change in High Mountain Asia -- Conclusion.
Sommario/riassunto	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. .