



徐長儀 博士後研究

**Xu Changyi** Postdoctoral fellow (2017/11/06-2019/07-01)

**TEL:** +886-2-2783-9910

**FAX:** +883-2-2783-9871

**E-mail:** [xuchangyi86@gmail.com](mailto:xuchangyi86@gmail.com); xuchangyi@earth.sinica.edu.tw

➤ **Research interests:** Earth rotation variation, low-degree gravitational field and crustal deformation

### ➤ Education

2006/09–2010/07 B. E. degree, Faculty of Geoexploration Science and Technology, Jilin University, China.

2010/09–2012/09 M. S. degree, College of Earth Science, University of Chinese Academy Sciences, China.

2012/09–2015/07 Ph.D degree, College of Earth Science, University of Chinese Academy Sciences, China.

### ➤ Experience

2013/02–2013/08 Visiting doctoral student, Institute of Earth Sciences, Academia Sinica, Taiwan.

2015/07–Now Assistant Researcher, Institute of Earthquake Science, China Earthquake Administration, China.

2016/11–2017/05 Postdoctoral fellow, Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan.

2017/11-2019/07 Postdoctoral fellow, Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan

### ➤ Publications

#### ● Journals

[1] **Xu, C.**, Yu, X., and Wei, D.P. (2019). Implicit expansion rate of the Earth in global plate motions. *Geodesy and Geodynamics*, 10(3), 228-234. doi: 10.1016/j.geog.2019.03.005. (SCI)

[2] Gao, C.C., Lu Y, Shi H.L., Zhang, Z.Z., **Xu, C.** and Tan, B. (2019). Detection and analysis of ice sheet mass changes over 27 Antarctic drainage systems from GRACE RLO6 data. *Chinese Journal of Geophysics-Chinese Edition*, 62(3): 864-882. doi: 10.6038/cjg2019M0586. (SCI)

[3] **Xu, C.** and B. Fong Chao (2017). Coseismic changes of gravitational potential energy induced by global earthquakes based on spherical-Earth elastic dislocation theory *J. Geophys. Res. Solid Earth*, 122, 4053-4063, doi:10.1002/2017JB014204. (SCI)

[4] **Xu, C.**, X. Su, T. Liu and W. Sun (2017). Geodetic observations of the co- and post-seismic deformation of the 2013 Okhotsk Sea deep-focus earthquake. *Geophys. J. Int.*, 209, 1924 -1933, doi: 10.1093/gji/ggx/123. (SCI)

[5] Chang, L., A. Qian, S. Yi, **C. Xu** and W. Sun (2017). Sea level change in China adjacent seas studied using satellite altimeter, satellite gravity, and thermohaline data. *Journal of University of Chinese Academy of Sciences*, 34(3), 371-379.

[6] **Xu, C.**, D. Wei and W. Sun (2016), Contribution of coseismic deformations on the current expansion of the Earth. *J. Geodynamics*, 99, 10-15, doi:10.1016/j.jog.2016.05.001. (SCI)

[7] Zhang, G., W. Shen, **C. Xu** and Y. Zhu (2016). Co-seismic gravity and displacement signatures induced by the 2013 Okhotsk Mw8.3 earthquake, *Sensors*, 16, 1410; doi:10.3390/s16091410. (SCI)

[8] **Xu, C.** and B. F. Chao (2015). Seismological versus geodetic reference frames for seismic dislocation: consistency under momentum conservations. *Geophys. J. Int.*, 200, 998-1002, doi:10.1093/gji/ggu/439. (SCI)

- [9] Zhang, G., G. Fu, X. Zhou and **C. Xu** (2015). Retrieve postseismic gravity changes induced by Sumatra earthquake (Mw 9.3) based on the viscoelastic dislocation theory. *Chinese J. Geophysics*, 58(5), 165-1665. (SCI in Chinese)
- [10] **Xu, C.**, W. Sun, and B. Fong Chao (2014), Formulation of co-seismic changes in Earth rotation and low-degree gravity field based on the spherical-Earth dislocation theory. *J. Geophys. Res. Solid Earth*, 119, 9031-9041, doi:10.1002/2014JB011328. (SCI)
- [11] **Xu, C.** and W. Sun (2014), Earthquake-origin expansion of the Earth inferred from a spherical-Earth elastic dislocation theory. *Geophys. J. Int.*, 199, 1655-1661, doi: 10.1093/gji/ggu364. (SCI)
- [12] **Xu, C.**, W. Sun, and X. Zhou (2013). Effects of huge earthquakes on Earth rotation and the length of day. *Terr. Atmos. Ocean. Sci.*, 24(4), 649-656, doi:10.3319/TAO.2013.01.16.02(Tibxs). (SCI)
- [13] Changyi Xu and Sun Wenke (2012). Co-seismic Earth's rotation change caused by the 2012 Sumatra earthquake. *Geodesy and Geodynamics*, 3(4), 28-31, doi:10.3724/SP.J.1246.2012.00028. doi:10.6038/cjg20150501.

### ● Conferences

- [1] **Changyi Xu**, Wenke Sun, Benjamin F. Chao and Guangyu Fu (2016). Coseismic changes of the Earth's rotation and comparison to the geodetic observations. The International Symposium on Geodesy and Geodynamics (ISGG2016). July, Tianjin, China.
- [2] **Changyi Xu**, Wenke Sun, Guangyu Fu and Jie Dong (2015). Coseismic density redistribution of the Earth interior based on the spherical dislocation theory and comparison to GRACE data. Assembly 2015 of the European Geosciences Union (EGU2015). April, 2015. Vienna.
- [3] **Changyi Xu** and Wenke Sun (2014). Earthquakes expanding the Earth based on a spherical-Earth dislocation theory. 5th International Workshop on Multi-observations and Interpretations of Tibet, Xinjiang and Siberia ( 5<sup>th</sup> TibXS), the second prize of excellent papers. July, Guiyang.
- [4] **Changyi Xu**, B. Fong Chao, Wenke Sun (2013). Cumulative coseismic displacement and comparison with GPS observations in Taiwan. 2013 AGU Fall Meeting (AGU2013). Dec. 2013, San Francisco.
- [5] **Changyi Xu**, Wenke Sun (2012). Coseismic Earth rotation changes based on the spherical dislocation theory. 28<sup>th</sup> annual conference of the Chinese Geophysical Society, the Outstanding Paper Award (28<sup>th</sup> CGS). Beijing.