Curriculum Vitae

Jianli CHEN, Ph. D.
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The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong

EDUCATIONS

Ph. D., Geophysics, The University of Texas at Austin, 1998
M. S., Astronomy, Shanghai Astronomical Observatory, Chinese Academy of Sciences, 1989
B. S., Space Physics, The University of Science & Technology of China, 1986

EXPERIENCES

04/2022 – Present	Professor Department of Land Surveying and Geo-Informatics The Hong Kong Polytechnic University
10/2009 – 04/2022	Senior Research Scientist Center for Space Research, University of Texas at Austin
09/2005 – 09/2009	Research Scientist Center for Space Research, University of Texas at Austin
06/2004 – 08/2005	Research Associate (Code 1000) Center for Space Research, University of Texas at Austin
09/2002 – 05/2004	Research Associate (RE/SA V) Center for Space Research, University of Texas at Austin
01/1999 – 08/2002	Research Associate (RE/SA IV) Center for Space Research, University of Texas at Austin
Summer, 1997	Visiting Scientist NASA Goddard Space Flight Center
09/1995 – 12/1998	Graduate Research Assistant Center for Space Research, University of Texas at Austin
06/1994 – 08/1995	Graduate Research Assistant Department of Geological Sciences, University of Texas at Austin
09/1989 – 05/1994	Research Engineer Shanghai Astronomical Observatory, Chinese Academy of Sciences
09/1986 – 08/1989	Graduate Research Assistant Shanghai Astronomical Observatory, Chinese Academy of Sciences

MEMBERSHIPS: American Geophysical Union, Chinese Geophysical Association

AWARDS AND HONORS

(1) 2004, Recipient of the NASA New Investigator Program award (NASA's version of the NSF CAREER award).

(2) 2005, Recipient of the Presidential Early Career Awards for Scientists and Engineers (PECASE), the United States' highest honor for professionals at the outset of their independent research careers (the first PECASE awardee in related working fields).

(3) 2007, Member of the NASA GRACE science team that received the William T. Pecora Award.

(4) 2015, Fellow of the International Association of Geodesy

COMMUNITY SERVICES

(1) Chair of the IERS Global Geophysical Fluids Center's Special Bureau for Hydrology (SBH) since 2004.

(2) SBH website curator and developer, in charge of online data archiving and communications with users around the world since 1998. (http://www2.csr.utexas.edu/research/ggfc/).

(3) Associate Editor of *J. Geophys. Res.* Solid Earth (2020-)

(4) Editorial Board Member of *Geodesy and Geodynamics* (2015-)

(5) Chair of IAG Commission 3.3 (2015- , Co-Chair 2011-2015)

(6) Co-lead of the WCRP Grand Challenge WP6 "The global sea level budget" (2020-)

(7) GGOS Science Panel Member (2017-)

(8) GGOS EGV (Essential Geodetic Variables) Committee Member (2017-)

(9) AGU John Wahr (Early Career) Award committee member (2021-)

(10) AGU Ivan Mueller Award (Distinguished Service & Leadership) committee member (2021-)

(11) Lead of Ocean Mass Team of the 2018 WCRP Global Sea Level Budget Group

(12) Member of the International Professionals for the Advancement of Chinese Earth Sciences (IPACES)

(13) Committee Member of the 2005 Asian Pacific Space Geodynamics (APSG) meeting.

(14) Geodesy Program Chair of the 2006 AGU Western Pacific Geophysics Meeting.

(15) Lead organizer and lecturer of the 2006 Shanghai Summer School on Space Geodesy and Global Change

(16) Lead organizer and lecturer of the 2011, 2012, 2014, 2016 & 2018 Shanghai Summer School on Spaceborne Earth Observations and Global Change (SEOGC)

(17) Lead organizer and lecturer of the 2021 Spaceborne Earth Observations and Global Change Online Forum Series

(18) Lead organizer and lecturer of the 2017 SUSTC Summer Schools on Spaceborne Earth Observations and Global Change

(19) Co-organizer of the 2014 ISSI Workshop on Remote Sensing and Water Resource (Bern, Switzerland, November 6 – 10)

(20) Session conveners at various scientific conferences (e.g., AGU, AOGS, IUGG, IAG, IAMAS, …).

(21) Guest Editor of Special Issue on Remote Sensing and Water Resources in *Surveys in Geophysics* (2016).

(22) Guest Editor of Special Issue on Satellite Gravimetry and Global Mass Transport in *Geodesy and Geodynamics* (2021).

(23) Serving as reviewers for various scientific journals, including *Nature*, *Science*, *Nature Geoscience, Geophys. Res. Lett.*, *J. of Geophys. Res.*, *J. of Geodesy*, *Geophys. J. Inter.*, *Water Resour. Res.*, etc.

CURRENT AND PAST SUPPORTS (over US$5 million total federal funding as PI or institutional PI)

Current Supports:

(1) Applications of Satellite Gravimetry in Global Climate Change, PI, LSGI/FCE/PolyU Startup Fund Program, HK$1,625K, 05/2022-04/2025

(2) The Quasi 6-year Oscillation in Earth Rotation, Deformation and Gravity Field and Connections with Surface Mass Load and Core-Mantle Interactions, Original PI (Acting PI Kuang at GSFC), Total Budget: US$698K (with two sub-awards of 132K to GSFC and 57K to Bowling Green State University), 01/01/2022-12/31/2024.

(3) Multi-Scale Validations of GRACE/GRACE-FO Time-Variable Gravity Solution, PI, NASA GRACE Follow-On, Budget: US$740K, 04/01/2020-03/31/2024.

(4) Understanding Earth's decadal LOD and PM due to electromagnetic core-mantle interactions with geomagnetic data assimilation, Institutional PI (PI Kuang at GSFC), NASA ESI Program, UT Budget: $57K, 06/01/2020-05/31/2023.

Past Supports:

(1) Geophysical Interpretations of Earth Rotation and Low-Degree Gravitational Change and Implications on Core-Mantle Coupling, PI, NASA ESI Program, UT Budget: US$586K (total project budget 649K, with a sub-award of 63K to GSFC), 03/01/2017-02/28/2022.

(2) Improved Estimation of Mass Variations within the Earth Climate System from GRACE, PI, NASA GRACE Program, Budget: US$706K, 05/26/2012-05/25/2019.

(3) Long-Term Variability of Earth Rotation, Low-Degree Gravity, and Climate Change, PI, NASA ESI Program, Budget: US$643K, 07/23/2012-07/22/2018.

(4) Collaborative Research: Long-Term and Interannual Variability of Antarctic Ice Sheet Mass Balance From Satellite Gravimetry and Other Geodetic Measurements, PI, NSF OPP, Budget: US$493K, 03/01/2011-12/31/2015.

(5) Application of GRACE Water Storage Resources Management: Case Study High Plains Aquifer, US, Co-I (PI Bridget Scanlon at UT BEG), NASA GRACE Project, 09/01/2008-08/31/2012, US$464K for 3 years (plus 1 year no-cost extension).

(6) Atmospheric and Oceanic Angular Momentum Variability and Forecast, PI, National Geospatial-Intelligence Agency NURI Program, PI, 12/24/2008- 12/23/2011, Budget: US$300,000 (2 years + 1 year no-cost extension).

(7) Mass and Angular Momentum Budget of the Oceans: An Interdisciplinary Study with Ocean General Circulation Model, Satellite Altimetry, and GRACE Observation, PI, NASA NIP & PECASE Awards, 08/15/2004-08/14/2010, Budget: US$518,171 for 5 years (with 1-year no cost extension).

(8) IPY: Investigation of Antarctic Ice Sheet Mass Balance From Satellite Gravity Measurements, PI, NSF IPY Program, 09/01/2008-08/31/2010, US$430K for 3 years.

(9) Role of atmosphere-ocean interaction in Earth orientation prediction, Institutional PI (PI: J.Y. Guo at Ohio State University), National Geospatial-Intelligence Agency NURI Program, 01/01/2008-12/31/2010, Budget: US$450,000 for 3 years.

(10) GRACE Validation: Discrete Harmonics and Covariance Properties of Time-Variable Gravity Using Earth Rotation and Climate Models, PI, NASA GRACE Science Team, 03/15/2004-03/14/2008, Budget: US$298,100 for 3 years (with 1 year no-cost extension).

(11) Terrestrial Water Storage Variations Using GRACE: Estimation, Uncertainty and Validation, Co-I (PI: Clark R. Wilson at UT DOGS), NASA GRACE Science Team, 03/15/2004-03/14/2008, UT Budget: US$243,126 for 3 years (with 1 year no-cost extension).

(12) 09/01/2004- 08/31/2007, NASA SENH, Earth's Time-Variable Gravity and Rotation Signals due to Surface Geophysical Fluids: Modeling and Geophysical Inferences, Institutional PI (PI: B.F. Chao at NASA GSFC), UT Budget: US$76,028.

(13) 03/15/2004-03/14/2007, NASA GRACE Project, Separation of Grace Data into Atmospheric and Oceanic Geoid Components, Co-I (PI: Francis Condi), No salary support required.

(14) 11/01/2004 -04/30/2005, EU Descartes - Nutation Award Program, Atmospheric Angular Momentum Variability from Advanced Climate Models, Institutional PI, Subaward from the Atmospheric and Environmental Research, Total UT budget, US$20,000.

(15) 01/01/2002 - 12/31/2004, NASA Global Water and Energy Cycle Research and Analysis Program, Water Mass Variability in the Earth System, Co-I (with PI: Don Chambers), Total Budget: US$300K.

GRADUATE AND POSTDOCTORAL ADVISORS

Postdoc advisors/co-advisors of Xiaogong Hu, Yonghong Zhou, Jin Li, Zizhan Zhang, Bo Zhong, Hongling Shi, Wei Chen, Fen Cao

Ph.D. advisors/co-advisors of Songyun Wang, Shengnan Ni

M.S. advisors/co-advisors of Jens Ramrath, Ziang Li

Visiting student advisors of Zhengbo Zou, Kejun Le, Songyun Wang, Shengnan Ni

Ph.D. committee of Ki-Weon Seo, Hongqiu Wu, Chris Linick

REFEREED PUBLICATIONS (Google Scholar h-index: 54, i10-index 130, Citations: 10759, over 120 refereed papers, with about half as lead author)

2022

Chen, J.L., Cazenave, A., Dahle, C., Llovel, W., Panet, I., Pfeffer, J., Moreira, L. (2022). Applications and Challenges of GRACE and GRACE Follow-On Satellite Gravimetry, *Surveys in Geophysics*, 43, 305–345, https://doi.org/10.1007/s10712-021-09685-x

Lai, J., Zhang. Y., Li, Y., Chen, J.L., Niu, N.G., Lin, P., Li, Q., Wang, L., He, X., Han, J., Luo, Z., Liu, Y., Sun, Y. (2022). Massive Crop Expansion Threatens Food and Water Sustainability in Arid Northwestern China, *Environmental Research Letters,* 17, 034003, Environ. Res. Lett. 17, 034003, https://doi.org/10.1088/1748-9326/ac46e8

Kim, J.-S., Seo, K.-W., Chen, J.L., Wilson, C.R. (2022). Assessment of GRACE/GRACE Follow-On Estimates of Global Mean Ocean Mass Change, *Scientific Reports*, 12:6617, https://doi.org/10.1038/s41598-022-10628-8

Zhou, Y.H., Chen, J.L., An, X., Hsu, C, Xu, X., Liao, X. (2022). Correlation between Mars' atmospheric dust cycle index and diurnal polar motion amplitude variation, *Icarus* (under review).

Kim, B.-H., Seo, K.-W., Lee, C.-K., Kim, J.-S., Chen, J.L., Wilson, C.R. (2022). Antarctic ice mass change (2003-2016) jointly estimated by satellite gravimetry and altimetry, *Remote Sensing of Environment* (under review).

Youm, K.-H., Eom, J.-Y., Seo, K.-W., Chen, J.L., Wilson, C.R. (2022). Estimation of vertical displacement in the Amazon Basin using high-resolution surface mass load fields from GRACE and a river routing model, *J. Geophys. Res.* Solid Earth*,* https://doi.org/10.1029/2020JB020037 (under review).

Zhong, B., Li, Q., Li, X., Chen, J., Luo, Z. (2022) Basin-Scale Surface Mass Changes Inferred from GRACE-based Geopotential Differences: A Case Study in the Yangtze River Basin, China. *Journal of Geodynamics* (under review).

Wang, S.Y., Li, J., Chen, J.L., Hu, X.G. (2022). On the improvement of mass load inversion with GNSS horizontal deformation: a synthetic study in Central China, *Journal of Geophysical Research*: Solid Earth (under review).

Xu, M., Li, J., Wan, X., Wang, S.Y., Chen, J.L. (2022). Topographic effects on coseismic gravity changes of the 2010 Chile earthquake based on GRACE observations, *Journal of Geophysical Research*: Earth Surface (under review).

2021

Chen, J.L., Rodell, M. (2021). Applications of GRACE in Global Groundwater Study, In Global Groundwater: Source, Scarcity, Sustainability, Security and Solutions. Ed. Mukherjee, et al., Elsevier, 1st. Ed., ISBN. 9780128181720. https://doi.org/10.1016/B978-0-12-818172-0.00039-6

Chen, J.L., Ries, J.C., & Tapley, B.D. (2021). Low-degree gravitational changes from Earth rotation and GRACE and GRACE Follow-On, *J. Geod.* 95:38, https://doi.org/10.1007/s00190-021-01492-x

Chen, J., Tapley, B., Tamisiea, M. E., Save, H., Wilson, C., Bettadpur, S., & Seo, K.-W. (2021). Error assessment of GRACE and GRACE Follow-On mass change. *Journal of Geophysical Research*: Solid Earth, 126, e2021JB022124. https://doi.org/10.1029/2021JB022124

Seo, K.-W., Kim, J.-S., Youm, K.-H., Chen, J.L., Wilson, C.R. (2021). Secular Polar Motion observed by GRACE, *J Geod.* 95:40, https://doi.org/10.1007/s00190-021-01476-x

Jeon, T., Seo, K.-W., Kim, B.-H., Kim, J.-S., Chen, J.L., Wilson, C.R. (2021). Sea level fingerprints and regional sea level change, *Earth and Planetary Science Letters*, Volume 567, 116985, https://doi.org/10.1016/j.epsl.2021.116985.

Barnoud, A., Pfeffer, J., Guérou, A., Denneulin, M.-L., Siméon, M., Cazenave, A., Chen, J.L., Llovel, W., Thierry, V., Legeais, J.F., and Ablain, M. (2021). Contributions of altimetry and Argo to non-closure of the global mean sea level budget since 2016, *Geophysical Research Letters, 48, e2021GL092824. https://doi.org/10.1029/2021GL092824*

Wang, S.Y., Li, J., Chen, J.L., Hu, X.G. (2021). Uncertainty assessments of load deformation from different GPS time series products, GRACE estimates and model predictions: a case study over Europe, *Remote Sensing*, 13(14), 2765; https://doi.org/10.3390/rs13142765.

Ni, S., Luo, Z., Chen, J.L., Li, J. (2021). Impact of Large-Scale Ocean–Atmosphere Interactions on Interannual Water Storage Changes in the Tropics and Subtropics. *Remote Sens.*, 13, 3529. https://doi.org/ 10.3390/rs13173529

Moreira, L., Cazenave, A., Barnoud, A., Chen, J.L. (2021). Sea-level fingerprints due to ongoing land ice melting in altimetry-based sea-level data, *Remote Sensing*, 13, 4667. https://doi.org/10.3390/rs13224667.

Rekier, J., Chao, B.F., Chen, J.L., Dehant, V., Holme, R., Rosat, S., and Zhu, P. (2021). Earth's Rotation: Observations and Relation to Deep Interior, *Surveys in Geophysics*, https://doi.org/10.1007/s10712-021-09669-x

2020

Chen, J.L., Tapley, B.D., Wilson, C.R., Cazenave, A., Seo, K.W., Kim, J.S. (2020). Global ocean mass change from GRACE and GRACE Follow-On and altimeter and Argo measurements, *Geophys. Res. Lett.,* 47 (22), e2020GL090656. https://doi.org/10.1029/2020GL090656

Chen, J.L., Tapley, B.D., Rodell, M., Seo, K.- W., Wilson, C.R., Scanlon, B.R., Pokhrel, Y. (2020). Basin-scale river discharge estimation from GRACE gravity measurements, climate model outputs and in situ observations: a case study in the Amazon basin, *Water Resour. Res.*, 56, e2020WR028032. https://doi.org/10.1029/2020WR028032

Chen, J.L. (2020). Tracking Earth's Water in Motion from Satellite Gravity Observations. In: Gupta H. (eds*) Encyclopedia of Solid Earth Geophysics. Encyclopedia of Earth Sciences Series.* Springer, Cham. https://doi.org/10.1007/978-3-030-10475-7_280-1.

Cazenave, A., Chen, J.L., Ramillien, G. (2020). Gravity Field, Temporal Variations from Space Techniques. In: Gupta H. (eds*) Encyclopedia of Solid Earth Geophysics. Encyclopedia of Earth Sciences Series.* Springer, Cham. https://doi.org/10.1007/978-3-030-10475-7_96-1.

Kim, J.-S., Seo, K.-W., Eom, J.-Y., Chen, J.L., Wilson, C.R. (2020). Antarctic ice mass variations from 1979 to 2017 driven by anomalous precipitation accumulation, *Scientific Reports*, 10:20366, https://doi.org/10.1038/s41598-020-77403-5.

Ratef, A., Scanlon, B.R., Pool, D.R., Sun, A., Zhang, Z., Chen, J.L., et al. (2020). Comparison of Groundwater Storage Changes from GRACE Satellites with Monitoring and Modeling of Major U.S. Aquifers, *Water Resour. Res.*, 56 (12), e2020WR027556. http://dx.doi.org/10.1029/2020WR027556

Xu, Y., Li, J., Wang, J., Chen, J.L., Liu, Y., Ni, S., Zhang, Z., Ke, C. (2020). Assessing water storage changes of Lake Poyang from multi-mission satellite data and hydrological models, Journal of Hydrology, Volume 590, 125229, https://doi.org/10.1016/j.jhydrol.2020.125229.

Seo, K.-W., Oh, S., Eom, J.-Y., Chen, J.L., Wilson, C.R. (2020). Constrained linear deconvolution of GRACE anomalies to correct spatial leakage, *Remote Sens.*, 12(11), 1798; https://doi.org/10.3390/rs12111798

Zhong, B., Li, X., Chen, J.L., Li, Q., Liu, T. (2020). Comparison of Surface Mass Variation Inversion from GPS and GRACE/GRACE-FO: A Case Study in Southwest China, *Remote Sens.,* 12(11), 1835; https://doi.org/10.3390/rs12111835.

Zhong, B., Li, Q., Chen, J.L., Luo, Z., Zhou, H. (2020). Improved Estimation of Regional Surface Mass Variations from GRACE Intersatellite Geopotential Differences Using a Priori Constraints. *Remote Sens*., 12(16):2553. https://doi.org/10.3390/rs12162553

Tang, L., Li, J., Chen, J.L., Wang, S.Y., Wang, R., Hu, X. (2020). Seismic Impact of Large Earthquakes on Estimating Global Mean Ocean Mass Change from GRACE, *Remote Sens.* 12(6), 935; https://doi.org/10.3390/rs12060935

2019

Chen, J.L., Tapley, B., Seo, K.- W., Wilson, C., & Ries, J. (2019). Improved Quantification of Global Mean Ocean Mass Change Using GRACE Satellite Gravimetry Measurements. *Geophys. Res. Lett.*, 46, 13984-13991, https://doi.org/10.1029/2019GL085519

Chen, J.L., Wilson, C.R., Kuang, W., & Chao, B.F. (2019). Interannual oscillations in Earth rotation. *J. Geophys. Res.* Solid Earth, 124. https://doi.org/10.1029/2019JB018541

Kim, J.- S., Seo, K.- W., Jeon, T., Chen, J.L., & Wilson, C.R. (2019). Missing hydrological contribution to sea level rise. *Geophys. Res. Lett.*, 46. https://doi.org/10.1029/2019GL085470.

Kang, Z., B.D. Tapley, J.L. Chen, J. Ries, S. Bettadpur (2019), Geocenter motion time series derived from GRACE GPS and LAGEOS observations, *J Geod.*, 93: 1931-1942. https://doi.org/10.1007/s00190-019-01292-4.

Kuang, W., B.F. Chao, J.L. Chen, Reassessment of electromagnetic core-mantle coupling and its implications to decadal polar motion, *Geodesy and Geodynamics*, https://doi.org/10.1016/j.geog.2019.06.003, 2019.

Li, J., J.L. Chen, S. Ni, L. Tang, X.G. Hu, Long-term and inter-annual mass changes of Patagonia Ice Field from GRACE, *Geodesy and Geodynamics*, 10, 100-109, https://doi.org/10.1016/j.geog.2018.06.001, 2019.

2018

Chen, J.L., Satellite Gravimetry and Mass Transport in the Earth System, *Geodesy and Geodynamics*, https://doi.org/10.1016/j.geog.2018.07.001, 2018.

Chen, J.L., B.D. Tapley, H. Save, M. Tamisiea, S. Bettadpur, J. Ries, Quantification of ocean mass change using GRACE gravity, satellite altimeter and Argo floats observations, *J. Geophys. Res.* Solid Earth, 123,10,212–10,225. https://doi.org/10.1029/2018JB016095, 2018.

Cazenave, A., and et al. (WCRP Global Sea Level Budget Group), Global sea-level budget 1993–present, Earth Syst. Sci. Data, 10, 1551-1590, 2018, https://doi.org/10.5194/essd-10-1551-2018.

Wang, S.Y., J.L. Chen, C.R. Wilson, J. Li, X.G. Hu, Vertical motion at TEHN (Iran) from Caspian Sea and other environmental loads, *J. Geodynamics*, Vol. 122, 17–24, https://doi.org/10.1016/j.jog.2018.10.003, 2018.

Jeon, T., K.-W. Seo, K. Youm, J.L. Chen, C.R. Wilson, Global sea level change signatures observed by GRACE satellite gravimetry, *Scientific Reports*, 8:13519, DOI:10.1038/s41598-018-31972-8, 2018.

Wang, S.Y., J.L. Chen, C.R. Wilson, J. Li, X.G. Hu, Reconciling GRACE and GPS estimates of long-term load deformation in southern Greenland, *G. J. Internat.*, Vol. 212, Issue 2, 1302–1313, https://doi.org/10.1093/gji/ggx473, 2018.

Li, Z., J.L. Chen, J. Li, X.G. Hu, Temporal and spatial variations of global steric sea level change from Argo measurements, 2005-2015, *Geodesy and Geodynamics*, 38(09), 923-929, DOI: 10.14075/j.jgg.2018.09.009, 2018.

Chen, J.L., C.R. Wilson, J.S. Famiglietti, B.R. Scanlon (2018), Groundwater Storage Monitoring from Space. In S. Liang (Ed.), *Comprehensive Remote Sensing*, vol. 4, pp. 295–314. Oxford: Elsevier.

2017

Chen, J.L., T. Pekker, C.R. Wilson, B.D. Tapley, A.G. Kostianoy, J.-F. Cretaux, E.S. Safarov (2017), Long-Term Caspian Sea Level Change, *Geophys. Res. Lett.*, 44 (13), 6993–7001, DOI: 10.1002/2017GL073958.

Chen, J.L., C.R. Wilson, B.D. Tapley, H. Save, J.-F. Cretaux (2017), Long-Term and Seasonal Caspian Sea Level Change from Satellite Gravity and Altimeter Measurements, *J. Geophys. Res.* Solid Earth, 122, DOI: 10.1002/2016JB013595.

Ni, S.N., J.L. Chen, C.R. Wilson, J. Li, X.G. Hu, R. Fu, Global terrestrial water storage changes and connections to ENSO events, *Surveys in Geophysics*, 1–22, DOI 10.1007/s10712-017-9421-7, 2017.

Van Dam, T., J.L. Chen, and T. Meyrath, Geodetic observations as a monitor of Climate change, in Global change and Future Earth: The geodetic and geophysics perspective, Cambridge University Press, pp 72-88, DOI: https://doi.org/10.1017/9781316761489.009, 2017.

Kuang, W., B.F. Chao, J.L. Chen, Decadal polar motion of the Earth excited by the convective outer core from geodynamo simulations, *J. Geophys. Res.* Solid Earth, 122, DOI: 10.1002/ 2017JB014555, 2017.

Ni, S.N., J.L. Chen, C.R. Wilson, X.G. Hu, Long-term water storage changes of Lake Volta from GRACE and satellite altimeter and connections with regional climate change, *Remote Sensing*, 9(8): 842, https://doi.org/10.3390/rs9080842, 2017.

Youm, K., Seo, K.-W., Jeon, T., Na, S.-H., Chen, J., and Wilson, C. R., 2017. Ice and groundwater effects on long term polar motion (1979–2010). Journal of Geodynamics, 106:66–73, https://doi.org/10.1016/j.jog.2017.01.008.

Li, J., J.L. Chen, Z. Li, S.Y. Wang, X.G. Hu, Ellipsoidal correction in GRACE surface mass change estimation, *J. Geophys. Res.* Solid Earth, 122,9437–9460. https://doi.org/10.1002/2017JB014033, 2017.

2016

Scanlon, B.R., Z. Zhang, H. Save, D.N. Wiese, F.W. Landerer, D. Long, L. Longuevergne, J.L. Chen, Global Evaluation of New GRACE Mascons Products for Hydrologic Applications, *Water Resour. Res.*, 52, doi:10.1002/2016WR019494, 2016.

Wang, S.Y., J.L. Chen, J. Li, S.N. Ni, Geophysical interpretation of GPS loading deformation over West Europe using GRACE measurements, *Annals of Geophysics*, 59, 5, S0538; doi:10.4401/ag-7058, 2016.

Li, J., J.L. Chen, C.R. Wilson, Topographic effects on co-seismic gravity changes for the 2011 Tohoku-Oki earthquake and comparison with GRACE, *J. Geophys. Res.*, 121, 5509–5537, doi:10.1029/2015JB012407, 2016.

Yi, S., W.K. Sun, W. Feng, J.L. Chen, Anthropogenic and climate-driven water depletion in Asia, *Geophys. Res. Lett.*, 43, 9061–9069, doi:10.1002/2016GL069985, 2016.

Cazenave, A., N. Champollion, J. Benveniste, and J.L. Chen, Foreword: International Space Science Institute (ISSI) Workshop on Remote Sensing and Water Resources, *Surveys in Geophysics*, 37: 191–194, DOI 10.1007/s10712-016-9356-4, 2016 (http://link.springer.com/article/10.1007/s10712-016-9356-4).

Chen, J.L., C.R. Wilson, J.C. Ries, Broad-band assessment of degree-2 gravitational changes from GRACE and other estimates, 2002-2015, *J. Geophys. Res. Solid Earth, 121*, 2112-2128, doi:10.1029/ 2015JB012708, 2016.

Chen, J.L., J.S. Famiglietti, B. Scanlon, M. Rodell, Groundwater storage changes: present status from GRACE observations, *Surveys in Geophysics*, 37: 397–417, DOI: 10.1007/s10712-015-9332-4, 2016

Chen, J.L., C.R. Wilson, B.D. Tapley, B. Scanlon, A. Güntner, Long-term groundwater storage change in Victoria, Australia from satellite gravity and in situ observations, *Global and Planetary Change*, 139: 56–65, DOI:10.1016/j.gloplacha.2016.01.002, 2016.

2015

Scanlon, B. R., Z. Zhang, R. C. Reedy, D. R. Pool, H. Save, D. Long, J.L. Chen, D. M. Wolock, B. D. Conway, and D. Winester, Hydrologic implications of GRACE satellite data in the Colorado River Basin, *Water Resour. Res.*, 51, doi:10.1002/2015WR018090, 2015.

Seo, K.W., J.L. Chen, C.R. Wilson, C.K. Lee, Decadal variations of Earth's oblateness and polar ice mass balance from 1979 to 2010, *Geophys. J. Int.*, 203, 475–481, doi: 10.1093/gji/ggv312, 2015.

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