

João de Teixeira da Encarnação

Postdoctoral Fellow, Center for Space Research, University of Texas at Austin

Publications

- de Teixeira da Encarnação, João**, Daniel Arnold, Ales Bezdek, Christoph Dahle, Eelco Doornbos, Jose van den IJssel, Adrian Jäggi, Torsten Mayer-Gürr, Josef Sebera, Pieter Visser, et al. (2017). “Gravity field models derived from Swarm GPS data”. In: *EGU General Assembly Conference Abstracts*. Vol. 19, p. 9218.
- Bezděk, Aleš, Josef Sebera, **João de Teixeira da Encarnação**, and Jaroslav Klokočník (2016). “Time-variable gravity fields derived from GPS tracking of Swarm”. In: *Geophysical Journal International* 205.3, pp. 1665–1669.
- de Teixeira da Encarnação, João**, Daniel Arnold, Aleš Bezděk, Christoph Dahle, Eelco Doornbos, Jose van den IJssel, Adrian Jäggi, Torsten Mayer-Gürr, Josef Sebera, Pieter Visser, et al. (2016a). “Gravity field models derived from Swarm GPS data”. In: *Earth, Planets and Space* 68.1, p. 127.
- de Teixeira da Encarnação, João**, Daniel Arnold, Ales Bezdek, Christoph Dahle, Eelco Doornbos, Jose van den IJssel, Adrian Jäggi, Torsten Mayer-Gürr, Josef Sebera, Pieter Visser, et al. (2016b). “Gravity field models derived from Swarm GPS data”. In: *EGU General Assembly Conference Abstracts*. Vol. 18, p. 5967.
- Doornbos, Eelco, **João de Teixeira da Encarnação**, Jose van den IJss, Christian Siemes, Ludwig Grunwaldt, Radek Peresty, Jiri Kraus, Jakob Flury, Guy Apelbaum, and Poul Erik Holmdahl Olsen (2016). “Thermospheric neutral densities derived from Swarm accelerometer and GPS data”. In: *ESA Living Planet Symposium 2016*.
- Jäggi, Adrian, Ulrich Meyer, Yoomin Jean, Andrea Susnik, Rolf Dach, Matthias Weigelt, Tonie van Dam, Zhao Li, Qiang Chen, Frank Flechtner, et al. (2016). “European Gravity Service for Improved Emergency Management—Status and Project Highlights”. In: *International Association of Geodesy Symposia*. Springer, p. 1.
- Siemes, Christian, **João de Teixeira da Encarnação**, Eelco Doornbos, Jose IJssel, Jiří Kraus, Radek Perešty, Ludwig Grunwaldt, Guy Apelbaum, Jakob Flury, and Poul Erik Holmdahl Olsen (2016). “Swarm accelerometer data processing from raw accelerations to thermospheric neutral densities”. In: *Earth, Planets and Space* 68.1, p. 92.
- Siemes, Christian, Ludwig Grunwaldt, Radek Peresty, Jiri Kraus, Eelco Doornbos, **João de Teixeira da Encarnação**, Jose van den IJssel, Jakob Flury, Guy Apelbaum, and Poul Erik Holmdahl Olsen (2016). “Improvements of the Swarm Accelerometer Data Processing”. In: *ESA Living Planet Symposium 2016*.
- Astafyeva, E, I Zakharenkova, M Foerster, E Doornbos, **João de Teixeira da Encarnação**, and C Siemes (2015). “Ionospheric and Thermospheric Response to the 2015 St. Patrick’s Day Storm: a Global Multi-Instrumental Overview”. In: *AGU Fall Meeting Abstracts*.
- de Teixeira da Encarnação, João**, P Ditmar, and R Klees (2015). “Impact of Orbit Position Errors on Future Satellite Gravity Models”. In: *AGU Fall Meeting Abstracts*.
- de Teixeira da Encarnação, João**, A Jaeggi, C Dahle, D Arnold, A Bezdek, J Sebera, T Mayer-Gürr, N Zehentner, PN Visser, E Doornbos, et al. (2015). “First monthly gravity field solutions derived from GPS orbits of Swarm”. In: *AGU Fall Meeting Abstracts*.
- Doornbos, E, C Siemes, **João de Teixeira da Encarnação**, R Peresty, L Grunwaldt, J Kraus, PE Holmdahl Olsen, J van den IJssel, J Flury, and G Apelbaum (2015). “Processing of Swarm Accelerometer Data into Thermospheric Neutral Densities”. In: *AGU Fall Meeting Abstracts*.
- Van Den IJssel, Jose, **João de Teixeira da Encarnação**, Eelco Doornbos, and Pieter Visser (2015). “Precise science orbits for the Swarm satellite constellation”. In: *Advances in Space Research* 56.6, pp. 1042–1055.
- Bruinsma, S, E Doornbos, C Siemes, R Peresty, J Kraus, A Bezdek, J van den IJssel, **João de Teixeira da Encarnação**, and PN Visser (2014). “Results from the First Year of Swarm GPS Receiver and Accelerometer Data.” In: *AGU Fall Meeting Abstracts*. Vol. 1, p. 02.

- Doornbos, E, S Bruinsma, B Fritsche, P Visser, J Van Den IJssel, **João de Teixeira da Encarnação**, and M Kern (2013). “Air density and wind retrieval using GOCE data”. In: *ESA Special Publication*. Vol. 722, p. 7.
- Friis-Christensen, Eigil and Rune Floberghagen (2013). “Preface”. In: *Earth, Planets and Space* 65.11, pp. 1185–1187.
- Hashemi Farahani, H, P Ditmar, R Klees, **João de Teixeira da Encarnação**, X Liu, Q Zhao, and J Guo (2013). “Validation of static gravity field models using GRACE K-band ranging and GOCE gradiometry data”. In: *Geophysical Journal International* 194.2, pp. 751–771.
- Olsen, Nils, Eigil Friis-Christensen, Rune Floberghagen, Patrick Alken, Ciaran D Beggan, Arnaud Chulliat, Eelco Doornbos, **João de Teixeira da Encarnação**, Brian Hamilton, Gauthier Hulot, et al. (2013). “The Swarm satellite constellation application and research facility (SCARF) and Swarm data products”. In: *Earth, Planets and Space* 65.11, pp. 1189–1200.
- Visser, Pieter, Eelco Doornbos, Jose van den IJssel, and **João de Teixeira da Encarnação** (2013). “Thermospheric density and wind retrieval from Swarm observations”. In: *Earth, Planets and Space* 65.11, pp. 1319–1331.
- Ditmar, Pavel, **João de Teixeira da Encarnação**, and Hassan Hashemi Farahani (2012). “Understanding data noise in gravity field recovery on the basis of inter-satellite ranging measurements acquired by the satellite gravimetry mission GRACE”. In: *Journal of Geodesy* 86.6, pp. 441–465.
- Doornbos, E, S Bruinsma, G Koppenwallner, B Fritsche, J van den IJssel, P Visser, **João de Teixeira da Encarnação**, and M Kern (2012). “Thermospheric density and wind from GOCE thruster activation and accelerometer data”. In: *EGU General Assembly Conference Abstracts*. Vol. 14, p. 5634.
- Gunter, BC, **João de Teixeira da Encarnação**, P Ditmar, and R Klees (2012). “Potential contributions to space geodesy from the IridiumNEXT constellation”. In: *AGU Fall Meeting Abstracts*. Vol. 1, p. 01.
- Gunter, B.C., **João de Teixeira da Encarnação**, P. Ditmar, R. Klees, P.W.L. van Barneveld, and P. Visser (2012). “Deriving Global Time-Variable Gravity from Precise Orbits of the Iridium NEXT Constellation”. In: *AAS/AIAA Astrodynamics Specialist Conference, Alaska, USA*. American Astronautical Society.
- Anselmi, A., S. Cesare, P.N.A.M. Visser, T. van Dam, N. Sneeuw, T. Gruber, B. Altés, F. Cossu, P. Ditmar, M. Murböck, et al. (2011). *Assessment of a Next Generation Gravity Mission for Monitoring the Variations of Earth’s Gravity*.
- Gunter, B, **João de Teixeira da Encarnação**, P Ditmar, and R Klees (2011). “An investigation into new advances in geodesy utilizing future satellite constellations”. In: *AGU Fall Meeting Abstracts*. Vol. 1, p. 03.
- Gunter, Brian C, **João de Teixeira da Encarnação**, Pavel Ditmar, and Roland Klees (2011). “Using satellite constellations for improved determination of Earth’s time-variable gravity”. In: *Journal of Spacecraft and Rockets* 48.2, pp. 368–377.
- Olsen, N, P Alken, C Beggan, A Chulliat, E Doornbos, R Floberghagen, EA Friis-Christensen, B Hamilton, G Hulot, J van den IJssel, et al. (2011). “SCARF-The Swarm Satellite Constellation Application and Research Facility”. In: *AGU Fall Meeting Abstracts*. Vol. 1, p. 0980.
- Ditmar, Pavel, Hassan Hashemi Farahani, and **João de Teixeira da Encarnação** (2010). “Mitigation of along-track artifacts in unconstrained mass transport models based on GRACE satellite data”. In: *EGU General Assembly Conference Abstracts*. Vol. 12, p. 10393.
- Gunter, B, **João de Teixeira da Encarnação**, P Ditmar, and R Klees (2010). “Using existing satellite constellations to complement current and future dedicated gravity field missions”. In: *AGU Fall Meeting Abstracts*.
- Hashemi Farahani, H, P Ditmar, **João de Teixeira da Encarnação**, and X Liu (2010). “Contribution of an accurate determination of GRACE satellite orbits to precise mass transport modeling”. In: *EGU General Assembly Conference Abstracts*. Vol. 12, p. 10867.
- Gunter, Brian C., **João de Teixeira da Encarnação**, and Pavel Ditmar. (2009). “The Use of Satellite Constellations and Formations for Future Satellite Gravity Missions”. In: *Advances in the Astronautical Sciences*. www.univelt.com/book=1451, pp. 1357–1368.

- Gunter, Brian C, Pavel Ditmar, and **João de Teixeira da Encarnação** (2009). “THE DETERMINATION OF TIME-VARIABLE GRAVITY FROM A CONSTELLATION OF NON-DEDICATED SATELLITES”. In: *Advances in the Astronautical Sciences* 135.3, pp. 1999–2007.
- de Teixeira da Encarnação, João**, P. Ditmar, and X. Liu (2008). “Analysis of Satellite Formations in the Context of Gravity Field Retrieval”. In: *The 3rd International Symposium on Formation Flying, Missions and Technologies*. European Space Agency.
- de Teixeira da Encarnação, João**, R Klees, E Zapreeva, P Ditmar, and J Kusche (2008). “Influence of hydrology-related temporal aliasing on the quality of monthly models derived from GRACE satellite gravimetric data”. In: *Observing our Changing Earth*, pp. 323–328.
- Resendes, David P, Sérgio Mota, José T Mendonça, Berry Sanders, **João de Teixeira da Encarnação**, and Jose Gonzalez Del Amo (2007). “Laser propulsion for ground launch”. In: *Journal of Propulsion and Power* 23.1, pp. 73–80.
- Resendes, David P, Sérgio Mota, Jose T Mendonca, Berry Sanders, **João de Teixeira da Encarnação**, Jose Gonzalez del Amo, Leik Myrabo, Kimiya Komurasaki, Takashi Yabe, Shigeaki Uchida, et al. (2006). “Laser Propulsion for ESA Missions: Ground to Orbit Launch Project Overview—Part 1”. In: *AIP Conference Proceedings*. Vol. 830. 1. AIP, pp. 576–587.
- Resendes, David P, Sérgio Mota, José T Mendonça, Berry Sanders, **João de Teixeira da Encarnação**, and Jose Gonzalez del Amo (2005). “Laser Propulsion for Ground to Orbit Launch”. In: *29th International Electric Propulsion Conference*.
- de Teixeira da Encarnação, João** and W.J. Ockels (2002). “Single Stage To Orbit Minimum Requirements Through Numerical Simulation”. In: *53rd International Astronautical Congress*.

Retrived from [Google Scholar](#).