

# João de Teixeira da Encarnação

## Curriculum Vitae

Center for Space Research  
3925 W Braker Lane  
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Apt 113  
Austin TX 78751, USA

## Personal Information

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**Full Name:** João Gregório de Teixeira da Encarnação  
**Birth:** 25<sup>th</sup> of February 1977 at Funchal, Portugal  
**Nationality:** Portuguese  
**Address:** 3925 W Braker Lane  
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**Web:** [University of Texas](#), [TU Delft](#), [LinkedIn](#), [ResearchGate](#), [Google Scholar](#), [ORCID](#), [Mendeley](#), [SCOPUS](#), [Publons](#), [GitHub](#)

## Education

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- 2015 **PhD in Space Geodesy**  
Geoscience and Remote Sensing ([GRS](#)), Delft University of Technology ([TU Delft](#))  
Dissertation: [Next-generation satellite gravimetry for measuring mass transport in the Earth system](#)  
Promotor: [Prof. Dr-Ing. habil. Roland Klees](#)  
Supervisor: [Dr. Ir. Pavel Ditmar](#)
- 2004 **Master of Sciences in Aerospace Engineering**  
Astrodynamics and Space missions ([AS](#)), [TU Delft](#)  
Final Thesis: *Numerical Simulation of Launch Vehicles*  
Supervisor: [Prof. Ir. B.A.C. Ambrosius](#)
- 2000 **Licenciatura ([Licenciate](#)) in Aerospace Engineering**  
Instituto Superior Técnico ([IST](#)), Technical University of Lisbon ([UTL](#))  
5<sup>th</sup> year concluded at [TU Delft](#), through the [ERASMUS program](#)  
Report: *Optimum Aerodynamic Shape for a High Altitude Long Endurance Aero-static Platform*  
Supervisor: Prof. Dr. Ir. Theo van Holten

## Academic and Work Experience

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Jun. 2018 –  
present

**Research Engineering/Scientist Associate** at Center for Space Research (CSR), University of Texas at Austin (UTexas), USA:

- Refinement of the last gravity field solutions from the Gravity Recovery And Climate Experiment (GRACE) mission;
- Assess signal continuity between GRACE and GRACE-FO;
- GRACE mission-complete reprocessing;
- Time-varying gravity fields estimated from Kinematic Orbits;
- In-house software development in Matlab and Ruby.
- MSc student supervision and mentoring.

Aug. 2016 –  
May 2018

**Postdoctoral Fellow** at Center for Space Research (CSR), University of Texas at Austin (UTexas), USA:

- Improvements in the calibration of the accelerometers on-board the GRACE satellites, in particular in what relates to temperature effects;
- Determination of the (non-linear) long-term trends in the GRACE gravity field solutions and their prediction during the GRACE/GRACE-FO gap;
- Time-varying gravity fields estimated from Kinematic Orbits;
- In-house software development in Matlab and Ruby.

Sep. 2011 –  
Jul. 2016

**Research Associate** at Astrodynamics and Space missions, TU Delft, the Netherlands:

- Calibration of the accelerometers on-board the Swarm satellites;
- Improvements in the modelling of non-conservative forces acting on satellites;
- Exploiting Digital Signal Processing (DSP) techniques to merge the measurement of non-gravitational accelerations from different sources: GPS-driven and accelerometer non-gravitational observations;
- Time-varying gravity fields estimated from Kinematic Orbits;
- Research project: Assessment of Satellite Constellations for Monitoring the Variations in Earth's Gravity Field;
- Research project: GOCE+ Theme3: Air density and wind retrieval using Gravity field and steady-state Ocean Circulation Explorer (GOCE) data;
- Research project: Development of the Swarm Level 2 Algorithms and Associated Level 2 Processing Facility;
- In-house software development in Fortran, Matlab and Ruby;
- Student supervision and mentoring.

Jan. 2007 –  
Dec. 2015

**PhD Candidate** at [GRS](#), [TU Delft](#), the Netherlands:

- Simulation of future gravimetric satellite missions and noise budget of low-low satellite-to-satellite tracking gravimetric data;
- Impact of orbit position modelling errors in the quality of satellite gravimetric data;
- Retrieval of the high-frequency time-variable gravity field of the Earth with numerous satellites;
- Research project: Assessment of a Next Generation Gravity Mission for Monitoring the Variations of Earth's Gravity Field;
- Research project: Monitoring and Modelling Individual Sources of Mass Distribution and Transport in the Earth System by Means of Satellites;
- In-house software development in Fortran and Matlab;
- Student supervision and mentoring.

Apr. 2005 –  
Nov. 2006

**Stress Engineer** at [Global Technics](#), Leiden, the Netherlands:

- Automated design (for weight and stress minimization) of fuselage panels for the Airbus A380 aircraft (in-house implementation of a tool in C++);
- Trainees supervision and mentoring.

Oct. 2004 –  
Jan. 2005

**Aerospace Engineer** at [Delta-Utec](#), Leiden, the Netherlands:

- Contractor Work: Implementation of a Sub-Orbital Optimization Module into the Simulation Tool COLVET (developed in-house at TU Delft).

Mar. 2004 –  
Apr. 2004

**Trainee** at the Prins Maurits Laboratorium, [TNO](#), the Netherlands

Supervisor: Ir. Berry Sanders, Rocket Technology Research Group:

- Implementation of the Launch Vehicle Simulation and Optimisation Tool COLVET;
- Numerical Simulations on Laser Propulsion (appendix of MSc thesis);
- Collaboration with international colleagues (PT and NL) on a European Space Agency ([ESA](#))-funded project to determine the feasibility of Laser Propulsion.

- Sep. 2001 –  
Dec. 2001
- Trainee** at European Space Research and Technology Centre ([ESTEC](#)), [ESA](#), Noordwijk, the Netherlands
- Supervisor: [Prof. Wubbo Ockels](#):
- Collaboration with fellow MSc colleagues on a space mission design project: *Lunar Exploration with Ariane 5*;
  - Simulation of rocket ascent trajectories (implemented a 2D orbit integrator in Matlab);
  - Optimization of rocket trajectories, thrust and attitude program, fuel consumption and payload;
  - Preliminary lunar mission design.

## Grants and Awards

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- Sep. 2017 –  
Dec. 2018
- Multi-approach gravity field models from Swarm GPS data*
- European Space Agency (Noordwijk, Netherlands)
  - 100k €
  - Contract: SD-ITT-1.1 (part of contract 4000109587/13/I-NB)
- 2017
- H2020 Marie Skłodowska-Curie Individual Fellowship [Seal of Excellent](#) to the proposal on [Direct Gravimetric data assimilation into Geophysical models](#)

## Teaching Experience

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- 2013 –  
2016
- Tutor for the Test, Analysis & Simulation project, [TU Delft](#)
- Undergraduate practical project on data analysis and scientific writing, [TU Delft](#)
- 2007 –  
2011
- Tutor for the Design Synthesis Exercise, [TU Delft](#)
- Undergraduate final project

## Research Supervision

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- 2019
- Co-supervisor**, visiting [TU Delft](#) student, [CSR](#)
- MSc thesis
- 2016
- Co-supervisor**, one external student from the Aeronautical Engineering at Inholland University of Applied Sciences, [TU Delft](#)
- Bachelor of Engineering final project
- 2007 –  
2011
- Co-supervisor**, Design Synthesis Exercise, [TU Delft](#)
- Undergraduate final projects (yearly), groups of 7 - 9 students

## Collaborations

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- 2017 – present Collaboration with Dr. Guillaume Ramillien from Centre National de la Recherche Scientifique ([CNRS](#)) and Dr. Aleš Bezděk the Astronomical Institute ([ASU](#)) of the Czech Academy of Sciences ([AVCR](#)) to **drive surface mass variations directly from “reduced” gravimetric data** (i.e. observations “cleaned” of non-gravitational and trivial gravitational effects).
- 2015 – present International collaboration with Prof. Torsten Mayer-Gürr of the Institute of Geodesy ([IfG](#)) of the Graz University of Technology ([TUG](#)), Dr. Aleš Bezděk of the [ASU](#) of the Czech Academy of Sciences ([AVCR](#)), Prof. Adrian Jäggi of the Astronomical Institute of the University of Bern ([AIUB](#)), Prof. Pieter Visser of the [Aerospace Faculty](#) of the [TU Delft](#) and Prof. C.K. Shum of the School of Earth Science ([SES](#)) of the Ohio State University ([OSU](#)) for the **study of the time-variable gravity field of the Earth estimated from GPS data collected by the Swarm Satellite mission**. These activities have started before we were awarded the funding [ITT posted by the ESA-funded DISC consortium](#) and led to one journal publication in *Advances in Space Research* and yearly contribution to the [EGU](#) General Assembly.
- 2014 – present Collaboration with [TU Delft](#) on the [DopTrack project](#), consisting of a **satellite tracking radio station that exploits the Doppler effect**; co-initiated and promoted the project, secured departmental funding, selected and assembled the hardware, developed software, engaged students and mentored practical undergraduate projects.

## Research Projects

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- 2016 – 2019 gravity Recovery And Climate Experiment (GRACE) Two-year Mission Extension (NASA contract NNL14AA00C)
- 2017 – 2018 Multi-approach gravity field models from Swarm GPS data (DISC contract SD-ITT-1.1, part of [ESA](#) contract [4000109587/13/I-NB](#))
- 2013 – 2015 Assessment of Satellite Constellations for Monitoring the Variations in Earth’s Gravity Field ([ESA](#) contract [4000108663/13/NL/MV](#))
- 2013 GOCE+ Theme3: Air density and wind retrieval using GOCE data ([ESA](#) contract [400010284/11/NL/EL](#))
- 2011 – 2016 Development of the Swarm Level 2 Algorithms and Associated Level 2 Processing Facility ([ESA](#) Contract [4000102140/10/NL/JA](#))
- 2010 Assessment of a Next Generation Gravity Mission for Monitoring the Variations of Earth’s Gravity Field ([ESTEC](#) contract [22643/09/NL/AF](#))
- 2008 Monitoring and Modelling Individual Sources of Mass Distribution and Transport in the Earth System by Means of Satellites ([ESA](#) contract [20403](#))

## Peer-reviewing Experience

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Reviewer for scientific papers submitted to *Advances in Space Research*, *Annales Geophysicae*, *Journal of Geodesy*, *Communications in Nonlinear Science and Numerical Simulation*, *IEEE Geoscience and Remote Sensing Letters*, *International Association of Geodesy Symposia*, *Journal of*

## Personal Development

- Sep. 2017 Dealing with Difficult People, Jeff Stellmach, [UTexas](#)  
 Sep. 2017 Conflict Management Foundations, Kimberly Sullivan, [UTexas](#)  
 Jul. 2017 Leading without formal authority, Emil Kresl, [UTexas](#)  
 Jul. 2017 Meeting effectiveness, Emil Kresl, [UTexas](#)  
 Sep. 2015 Scientific Writing, Sören Johnson, [TU Delft](#)

## Languages

	Speaking	Reading	Writing
Portuguese		mother tongue	
English <sup>a</sup>	excellent	excellent	excellent
Spanish	good	good	fair
Italian	good	good	fair
Dutch	fair	fair	limited
French	fair	fair	limited

<sup>a</sup>holding the [Certificate of Proficiency in English](#)

## Invited Presentations

1. **Teixeira Encarnação, J.** (2017). "Satellite Gravimetry". In: *Summer Sch. Data Assim. its Appl. Oceanogr. Hydrol. Risk Saf. Reserv. Eng.* URL: <http://data-assimilation.com>.
2. **Teixeira Encarnação, J.**, Arnold, D., Bezdek, A., Dahle, C., Doornbos, E., Ijssel, J. V. D., Jäggi, A., Mayer-gürr, T., Sebera, J., Visser, P., Zehentner, N., (2015). "First monthly gravity field solutions derived from GPS orbits of Swarm". In: *AGU Fall Meet. Abstr.* San Francisco, CA, USA. URL: <https://agu.confex.com/agu/fm15/webprogram/Paper71877.html>.

## Journal publications

1. Bezděk, A., Sebera, J., **Teixeira da Encarnação, J.**, Klokočník, J., (2016). "Time-variable gravity fields derived from GPS tracking of Swarm". In: *Geophys. J. Int.* 205.3, pp. 1665–1669. DOI: [10.1093/gji/ggw094](https://doi.org/10.1093/gji/ggw094).
2. Siemes, C., **de Teixeira da Encarnação, J.**, Doornbos, E., Ijssel, J., Kraus, J., Perešty, R., Grunwaldt, L., Apelbaum, G., Flury, J., Holmdahl Olsen, P. E., (2016). "Swarm accelerometer data processing from raw accelerations to thermospheric neutral densities". In: *Earth, Planets Sp.* 68.1, p. 92. DOI: [10.1186/s40623-016-0474-5](https://doi.org/10.1186/s40623-016-0474-5).
3. **Teixeira da Encarnação, J.**, Arnold, D., Bezděk, A., Dahle, C., Doornbos, E., Van Den Ijssel, J., Jäggi, A., Mayer-Gürr, T., Sebera, J., Visser, P., Zehentner, N., (2016). "Gravity field models derived from Swarm GPS data". In: *Earth, Planets Sp.* 68.1, p. 127. DOI: [10.1186/s40623-016-0499-9](https://doi.org/10.1186/s40623-016-0499-9).

4. IJssel, J., **Encarnação, J.**, Doornbos, E., Visser, P., (2015). "Precise science orbits for the Swarm satellite constellation". In: *Adv. Sp. Res.* 56.6, pp. 1042–1055. DOI: [10.1016/j.asr.2015.06.002](https://doi.org/10.1016/j.asr.2015.06.002).
5. Hashemi Farahani, H., Ditmar, P., Klees, R., **Teixeira da Encarnação, J.**, Liu, X., Zhao, Q., Guo, J., (2013). "Validation of static gravity field models using GRACE K-band ranging and GOCE gradiometry data". In: *Geophys. J. Int.* 194.2, pp. 751–771. DOI: [10.1093/gji/ggt149](https://doi.org/10.1093/gji/ggt149).
6. Olsen, N. (2013). "The Swarm Satellite Constellation Application and Research Facility (SCARF) and Swarm data products". In: *Earth, Planets Sp.* 65.11, pp. 1189–1200. DOI: [10.5047/eps.2013.07.001](https://doi.org/10.5047/eps.2013.07.001).
7. Visser, P., Doornbos, E., IJssel, J., **Teixeira da Encarnação, J.**, (2013). "Thermospheric density and wind retrieval from Swarm observations". In: *Earth, Planets Sp.* 65.11, pp. 1319–1331. DOI: [10.5047/eps.2013.08.003](https://doi.org/10.5047/eps.2013.08.003).
8. Ditmar, P., **Encarnação, J.**, Hashemi Farahani, H., (2012). "Understanding data noise in gravity field recovery on the basis of inter-satellite ranging measurements acquired by the satellite gravimetry mission GRACE". In: *J. Geod.* 86.6, pp. 441–465. DOI: [10.1007/s00190-011-0531-6](https://doi.org/10.1007/s00190-011-0531-6).
9. Gunter, B. C., **Encarnacao, J.**, Ditmar, P., Klees, R., Encarnação, J., Ditmar, P., Klees, R., (2011). "Using Satellite Constellations for Improved Determination of Earth's Time-Variable Gravity". In: *J. Spacecr. Rockets* 48.2, pp. 368–377. DOI: [10.2514/1.50926](https://doi.org/10.2514/1.50926).
10. Resendes, D. P., Mota, S., Mendonça, J. T., Sanders, B., **Encarnação, J.**, Del Amo, J. G., (2007). "Laser Propulsion for Ground Launch". en. In: *J. Propuls. Power* 23.1, pp. 73–80. DOI: [10.2514/1.24527](https://doi.org/10.2514/1.24527).

## Conference proceedings (peer-reviewed)

1. Gunter, B. C., **Encarnação, J.**, Ditmar, P., Klees, R., Van Barneveld, P. W. L., Visser, P., (2012). "Deriving global time-variable gravity from precise orbits of the Iridium NEXT constellation". In: *Adv. Astronaut. Sci.* Vol. 142, pp. 2087–2096. URL: <http://www.univelt.com/book=3354>.
2. Gunter, B. C., Ditmar, P., **Encarnação, J.**, (2010). "The determination of time variable gravity from a constellation of non-dedicated satellites". In: *Adv. Astronaut. Sci.* Pittsburgh, pp. 1999–2007. URL: <http://www.univelt.com/book=1349>.
3. Gunter, B. C., **Encarnação, J.**, Ditmar, P., Klees, R., (2009). "The use of satellite constellations and formations for future gravity field missions". In: *Adv. Astronaut. Sci.* Savannah, pp. 1357–1368. URL: <http://www.univelt.com/book=1451>.
4. **Encarnação, J.**, Ditmar, P., Liu, X., (2008). "Analysis of Satellite Formations in the Context of Gravity Field Retrieval". In: *3rd Int. Symp. Form. Flying, Mission. Technol.* Ed. by K Fletcher. Vol. ESA SP-654. 654 SP. Rijswijk: ESA Communication Production Office, pp. 1–9. URL: <https://tinyurl.com/3rdISFFMT>.



5. **Encarnação, J.**, Klees, R., Zapreeva, E., Ditmar, P., Kusche, J., (2008). "Influence of Hydrology-Related Temporal Aliasing on the Quality of Monthly Models Derived from GRACE Satellite Gravimetric Data". In: *Obs. our Chang. Earth* 133, pp. 323–328. DOI: [10.1007/978-3-540-85426-5\\_38](https://doi.org/10.1007/978-3-540-85426-5_38).
6. Resendes, D. P., Mota, S., Mendonça, J. T., Sanders, B., **Encarnação, J.**, Amo, J. G., Myrabo, L. N., (2006). "Laser Propulsion for ESA Missions: Ground to Orbit Launch Project Overview — Part 1". en. In: *AIP Conf. Proc.* Vol. 830. 1. AIP, pp. 576–587. DOI: [10.1063/1.2203299](https://doi.org/10.1063/1.2203299).
7. Resendes, D. P., Mota, S., Mendonça, J. T., Sanders, B., **Encarnação, J.**, Del Amo, J. G., (2005). "Laser Propulsion for Ground to Orbit Launch". In: *29th Int. Electr. Propuls. Conf.* IEPC-2005-310. URL: [http://erps.spacegrant.org/uploads/images/images/iepc\\_articledownload\\_1988-2007/2005index/310.pdf](http://erps.spacegrant.org/uploads/images/images/iepc_articledownload_1988-2007/2005index/310.pdf).

## Conference Attendance

1. **Teixeira da Encarnação, J.**, Save, H., Tapley, B. D., Rim, H. J., (2018). "Analysis of GRACE's accelerometer scale-factor calibration". In: *AGU Fall Meet.* Washington, D.C.
2. **Encarnacao, J.**, Save, H., Siemes, C., Doornbos, E., Tapley, B., (2017). "Temperature corrected-calibration of GRACE's accelerometer". In: *AGU Fall Meet. Abstr.* 5.512, p. 78759. DOI: [10.13140/RG.2.2.20396.97929](https://doi.org/10.13140/RG.2.2.20396.97929). URL: <https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/288232>.
3. **Teixeira Encarnação, J.**, Arnold, D., Bezdek, A., Dahle, C., Doornbos, E., Ijssel, J. V. D., Jäggi, A., Mayer-gürr, T., Sebera, J., Shum, C., Visser, P., Zehentner, N., (2017). "Gravity field models derived from Swarm GPS data". In: *EGU Gen. Assem.* Vienna, Austria. URL: <https://tinyurl.com/gswarmEGU2017>.
4. **Teixeira Encarnação, J.**, Arnold, D., Bezdek, A., Dahle, C., Jäggi, A., Mayer-gürr, T., Sebera, J., Visser, P., Zehentner, N., (2016). "Gravity field models derived from Swarm GPS data". In: *EGU Gen. Assem.* Vienna, Austria. DOI: [10.13140/RG.2.1.3909.4642](https://doi.org/10.13140/RG.2.1.3909.4642).
5. **Encarnacao, J.**, Ditmar, P., Klees, R., (2015). *Impact of Orbit Position Errors on Future Satellite Gravity Models*. URL: <http://adsabs.harvard.edu/abs/2015AGUFM.G31B1114E>.
6. **Teixeira Encarnação, J.**, Ijssel, J., Doornbos, E., Visser, P. N., (2015). "Frequency domain combination of POD-driven and measured accelerations". In: *5th Swarm Data Qual. Work.* Paris, France.
7. **Teixeira Encarnação, J. G.**, Ijssel, J., Doornbos, E., Visser, P., (2014a). "POD-assisted calibration of Swarms Accelerometer Data". In: *4th Swarm Data Qual. Work.* December. Postdam, Germany.
8. **Teixeira Encarnação, J.**, Doornbos, E., Ijssel, J., Visser, P. N., (2014b). "Combination of Swarm's Uncalibrated Accelerometer Data with POD-Based Accelerometry". In: *3rd Swarm Sci. Meet.* Copenhagen, Denmark, p. 2.
9. **Teixeira Encarnação, J.**, Ijssel, J., Doornbos, E., Visser, P. N., (2014c). "Preliminary analysis of accelerometer data". In: *2nd Swarm Data Qual. Work.* Rome, Italy.



10. **Encarnação, J.**, Ditmar, P., Liu, X., (2008). "Analysis of Satellite Formations in the Context of Gravity Field Retrieval". In: *3rd Int. Symp. Form. Flying, Mission. Technol.* Ed. by K Fletcher. Vol. ESA SP-654. 654 SP. Rijswijk: ESA Communication Production Office, pp. 1–9. URL: <https://tinyurl.com/3rdISFFMT>.
11. **Teixeira Encarnação, J.**, Ditmar, P. G., Klees, R., (2008). "Spectral analysis of positioning modelling errors in gravimetric data". In: *IAG Symp. Gravity, Geoid, Earth Obs.* Chania, Greece.
12. **Teixeira Encarnação, J. G.**, Ditmar, P. G., Klees, R., (2007a). "Temporal aliasing in GRACE monthly solutions". In: *Intergeo*. Leipzig, Germany.
13. **Teixeira Encarnação, J.**, Ditmar, P. G., Klees, R., (2007b). "Influence of hydrology-related temporal aliasing on the quality of monthly models derived from GRACE satellite gravimetric data". In: *VMSG Symp.* Utrecht, The Netherlands.
14. **Encarnação, J.** (2002). "Single Stage To Orbit Minimum Requirements Through Numerical Simulation". In: *34th COSPAR Sci. Assem. Second World Sp. Congr.* Houston, TX, USA: IAF. URL: <http://adsabs.harvard.edu/abs/2002iaf...confE.984T>.

## Conference Contributions

1. Visser, P., **Encarnação, J. d. T.**, Doornbos, E., IJssel, J., Mao, X., Iorfida, E., Arnold, D., Jäggi, A., Meyer, U., Bezděk, A., Sebera, J., Klokočník, J., Ellmer, M., Mayer-Gürr, T., Krauss, S., Guo, J., Zhang, C., Shum, C., Zhang, Y., (2019). "Complete 5-years time series of combined monthly gravity field models derived from Swarm GPS data". In: *EGU Gen. Assem.* EGU2019-13412. Vienna, Austria. DOI: [10.13140/RG.2.2.11449.01123](https://doi.org/10.13140/RG.2.2.11449.01123).
2. **de Teixeira da Encarnação, J.**, Save, H., Tapley, B., Rim, H. J., (2018a). "GRACE's accelerometer scale-factor calibration". In: *GRACE/ GRACE-FO Sci. Team Meet.* Potsdam, Germany: Copernicus Office. URL: [http://presentations.copernicus.org/GSTM-2018-66\\_presentation.pdf](http://presentations.copernicus.org/GSTM-2018-66_presentation.pdf).
3. **de Teixeira da Encarnação, J.**, Arnold, D., Bezdek, A., Doornbos, E., Ellmer, M., Guo, J., IJssel, J., Iorfida, E., Jäggi, A., Klokočník, J., Mao, X., Mayer-Gürr, T., Meyer, U., Sebera, J., Shum, C. K., Visser, P., Zehentner, N., Zhang, Y., Zhang, C., (2018b). "Observing Earth's mass transport processes with the Swarm satellites". In: *Gravity, Geoid Height Syst. 2 Symp.* Copenhagen, Denmark.
4. **Encarnacao, J.**, Visser, P., Doornbos, E., IJssel, J., Mao, X., Iorfida, E., Arnold, D., Jäggi, A., Meyer, U., Bezdek, A., Sebera, J., Klokocnik, J., Ellmer, M., Mayer-Gürr, T., Zehentner, N., Guo, J., Luk, P., Shum, C. K., Zhang, Y. Y., (2018). "Signal contents of combined monthly gravity field models derived from Swarm GPS data Multi-approach gravity field models from Swarm GPS data". In: *EGU Gen. Assem.* April, EGU2018-10. DOI: [10.13140/RG.2.2.24263.39845](https://doi.org/10.13140/RG.2.2.24263.39845). URL: [https://www.researchgate.net/publication/324545998\\_Signal\\_contents\\_of\\_combined\\_monthly\\_gravity\\_field\\_models\\_derived\\_from\\_Swarm\\_GPS\\_data](https://www.researchgate.net/publication/324545998_Signal_contents_of_combined_monthly_gravity_field_models_derived_from_Swarm_GPS_data).

5. Jäggi, A, Meyer, U., Schreiter, L., Sterken, V., Dahle, C., Arnold, D., **Encarnacao, J.**, Visser, P., IJssel, J., Mao, X., Iorfida, E., Bezdek, A., Sebera, J., Mayer-Gürr, T., Zehentner, N., Shum, C. K., Lück, C., Rietbroek, R., Kusche, J., (2018). "Assessment of individual and combined gravity field solutions from Swarm GPS data and mitigation of systematic errors". In: *EGU Gen. Assem.* Vienna, Austria, EGU2018–89.
6. Visser, P., **Encarnação, J. T.**, Doornbos, E., IJssel, J., Mao, X., Iorfida, E., Arnold, D., Jäggi, A., Meyer, U., Bezděk, A., Sebera, J., Klokočník, J., Ellmer, M., Mayer-Gürr, T., Zehentner, N., Guo, J., Zhang, Y., Shum, C. K., (2018). "Multi-approach Gravity Field Models from Swarm GPS data". In: *42nd COSPAR Sci. Assem.* Pasadena, CA, USA, No. 20613.
7. Zehentner, N., Mayer-Gürr, T., Ellmer, M., **Encarnacao, J. T.**, Visser, P., Doornbos, E., IJssel, J. V., Mao, X., Iorfida, E., Arnold, D., Jäggi, A., Meyer, U., Bezdek, A., Sebera, J., Klokocnik, J., Guo, J., Shum, C., (2018). "Investigations of GNSS-derived baselines for gravity field recovery". In: *EGU Gen. Assem.* Vienna, Austria, EGU2018–11920. DOI: [10.13140/RG.2.2.18307.81440](https://doi.org/10.13140/RG.2.2.18307.81440). URL: [ftp://ftp.tugraz.at/outgoing/ITSG/poster/zehentner\\_etal\\_EGU2018.pdf](http://ftp.tugraz.at/outgoing/ITSG/poster/zehentner_etal_EGU2018.pdf).
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## Miscellaneous Contributions

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