

João de Teixeira da Encarnação

Publications

Refereed Journal publications

- 2020 **Teixeira da Encarnação, J.**, Save, H., Tapley, B., Rim, H.-J., "Accelerometer Parameterization and the Quality of Gravity Recovery and Climate Experiment Solutions". In: *Journal of Spacecraft and Rockets* 57.4, pp. 740–752. DOI: [10.2514/1.A34639](https://doi.org/10.2514/1.A34639).
- 2020 **Teixeira da Encarnação, J.**, Visser, P., Arnold, D., Bezdek, A., Doornbos, E., Ellmer, M., Guo, J., IJssel, J., Iorfida, E., Jäggi, A., Klokocník, J., Krauss, S., Mao, X., Mayer-Gürr, T., Meyer, U., Sebera, J., Shum, C. K., Zhang, C., Zhang, Y., Dahle, C., "Description of the multi-approach gravity field models from Swarm GPS data". In: *Earth System Science Data* 12.2, pp. 1385–1417. DOI: [10.5194/essd-12-1385-2020](https://doi.org/10.5194/essd-12-1385-2020).
- 2016 Bezděk, A., Sebera, J., **Teixeira da Encarnação, J.**, Klokocník, J., "Time-variable gravity fields derived from GPS tracking of Swarm". In: *Geophysical Journal International* 205.3, pp. 1665–1669. DOI: [10.1093/gji/ggw094](https://doi.org/10.1093/gji/ggw094).
- 2016 Siemes, C., **Teixeira da Encarnação, J.**, Doornbos, E., IJssel, J., Kraus, J., Perešty, R., Grunwaldt, L., Apelaub, G., Flury, J., Holmdahl Olsen, P. E., "Swarm accelerometer data processing from raw accelerations to thermospheric neutral densities". In: *Earth, Planets and Space* 68.1, p. 92. DOI: [10.1186/s40623-016-0474-5](https://doi.org/10.1186/s40623-016-0474-5).
- 2016 **Teixeira da Encarnação, J.**, Arnold, D., Bezděk, A., Dahle, C., Doornbos, E., IJssel, J., Jäggi, A., Mayer-Gürr, T., Sebera, J., Visser, P., Zehentner, N., "Gravity field models derived from Swarm GPS data". In: *Earth, Planets and Space* 68.1, p. 127. DOI: [10.1186/s40623-016-0499-9](https://doi.org/10.1186/s40623-016-0499-9).
- 2015 IJssel, J., **Encarnação, J.**, Doornbos, E., Visser, P., "Precise science orbits for the Swarm satellite constellation". In: *Advances in Space Research* 56.6, pp. 1042–1055. DOI: [10.1016/j.asr.2015.06.002](https://doi.org/10.1016/j.asr.2015.06.002).
- 2013 Hashemi Farahani, H., Ditmar, P., Klees, R., **Teixeira da Encarnação, J.**, Liu, X., Zhao, Q., Guo, J., "Validation of static gravity field models using GRACE K-band ranging and GOCE gradiometry data". In: *Geophysical Journal International* 194.2, pp. 751–771. DOI: [10.1093/gji/ggt149](https://doi.org/10.1093/gji/ggt149).
- 2013 Olsen, N., Friis-Christensen, E., Floberghagen, R., Alken, P., Beggan, C. D., Chulliat, A., Doornbos, E., **Encarnação, J. T.**, Hamilton, B., Hulot, G., IJssel, J., Kuvshinov, A., Lesur, V., Lühr, H., Macmillan, S., Maus, S., Noja, M., Olsen, P. E. H., Park, J., Plank, G., Püthe, C., Rauberg, J., Ritter, P., Rother, M., Sabaka, T. J., Schachtschneider, R., Sirol, O., Stolle, C., Thébaud, E., Thomson, A. W. P., Tøffner-Clausen, L., Velínský, J., Vigneron, P., Visser, P. N., "The Swarm Satellite Constellation Application and Research Facility (SCARF) and Swarm data products". In: *Earth, Planets and Space* 65.11, pp. 1189–1200. DOI: [10.5047/eps.2013.07.001](https://doi.org/10.5047/eps.2013.07.001).
- 2013 Visser, P., Doornbos, E., IJssel, J., **Teixeira da Encarnação, J.**, "Thermospheric density and wind retrieval from Swarm observations". In: *Earth, Planets and Space* 65.11, pp. 1319–1331. DOI: [10.5047/eps.2013.08.003](https://doi.org/10.5047/eps.2013.08.003).
- 2012 Ditmar, P., **Encarnação, J.**, Hashemi Farahani, H., "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. DOI: [10.1007/s00190-011-0531-6](https://doi.org/10.1007/s00190-011-0531-6).
- 2011 Gunter, B. C., **Encarnação, J.**, Ditmar, P., Klees, R., "Using Satellite Constellations for Improved Determination of Earth's Time-Variable Gravity". In: *Journal of Spacecraft and Rockets* 48.2, pp. 368–377. DOI: [10.2514/1.50926](https://doi.org/10.2514/1.50926).
- 2007 Resendes, D. P., Mota, S., Mendonça, J. T., Sanders, B., **Encarnação, J.**, Del Amo, J. G., "Laser Propulsion for Ground Launch". In: *Journal of Propulsion and Power* 23.1, pp. 73–80. DOI: [10.2514/1.24527](https://doi.org/10.2514/1.24527).

Peer Reviewed Conference Proceedings

- 2012 Gunter, B. C., **Encarnação, J.**, Ditmar, P., Klees, R., Van Barneveld, P. W. L., Visser, P., “Deriving global time-variable gravity from precise orbits of the Iridium NEXT constellation”. In: *Advances in the Astronautical Sciences*. Vol. 142, pp. 2087–2096.
- 2009 Gunter, B. C., Ditmar, P., **Encarnação, J.**, “The determination of time variable gravity from a constellation of non-dedicated satellites”. In: *Advances in the Astronautical Sciences*. Pittsburgh, pp. 1999–2007.
- 2009 Gunter, B. C., **Encarnação, J.**, Ditmar, P., Klees, R., “The use of satellite constellations and formations for future gravity field missions”. In: *Advances in the Astronautical Sciences*. Savannah, pp. 1357–1368.
- 2008 **Encarnação, J.**, Ditmar, P., Liu, X., “Analysis of Satellite Formations in the Context of Gravity Field Retrieval”. In: *3rd International Symposium on Formation Flying, Missions and Technologies (SP-654)*. Ed. by K Fletcher. ESA SP-654. Rijswijk, the Netherlands: 23-25 Apr.
- 2008 **Encarnação, J.**, Klees, R., Zapreeva, E., Ditmar, P., Kusche, J., “Influence of Hydrology-Related Temporal Aliasing on the Quality of Monthly Models Derived from GRACE Satellite Gravimetric Data”. In: *Observing our Changing Earth*. Vol. 133. Berlin, Heidelberg: Springer Berlin Heidelberg, pp. 323–328. DOI: [10.1007/978-3-540-85426-5_38](https://doi.org/10.1007/978-3-540-85426-5_38).
- 2006 Resendes, D. P., Mota, S., Mendonça, J. T., Sanders, B., **Encarnação, J.**, Amo, J. G., Myrabo, L. N., “Laser Propulsion for ESA Missions: Ground to Orbit Launch Project Overview — Part 1”. en. In: *AIP Conference Proceedings*. Vol. 830. 1. AIP, pp. 576–587. DOI: [10.1063/1.2203299](https://doi.org/10.1063/1.2203299).
- 2005 Resendes, D. P., Mota, S., Mendonça, J. T., Sanders, B., **Encarnação, J.**, Del Amo, J. G., “Laser Propulsion for Ground to Orbit Launch”. In: *29th International Electric Propulsion Conference*. IEPC-2005-310.
- 2001 **Teixeira Encarnação, J. T.**, Ockels, W. J., “Single Stage to Orbit Minimum Requirement Through Numerical Simulation”. In: *Proceedings of the 53rd International Astronautical Congress*. Houston, TX, USA: International Astronautical Federation.

Other Publications

- 2015 Sneeuw, N., Iran-Pour, S., Reubelt, T., Sneeuw, N., Daras, I., Murböck, M., Gruber, T., Pail, R., Weigelt, M., Dam, T., Visser, P., **Teixeira da Encarnação, J.**, IJssel, J., Tonetti, S., Cornara, S., Cesare, S., *Assessment of Satellite Constellations for Monitoring the Variations in Earth Gravity Field “SC4MGV”*. Tech. rep. European Space Agency.
- 2010 Anselmi, A., Cesare, S., Visser, P., Van Dam, T., Sneeuw, N., Gruber, T., Altes, B., Christophe, B., Cossu, F., Ditmar, P., Murböck, M., Parisch, M., Renard, M., Reubelt, T., Sechi, G., **Teixeira da Encarnação, J.**, *Assessment of a next Generation Gravity Mission for Monitoring the Variations of Earth’s Gravity Field*. Tech. rep. Thales Alenia Space report SD-RP-AI-0668: ESA Contract No. 22643/09/NL/AF.

Conference activity

Oral presentations

- 2021 **Encarnação, J.**, Siemes, C., “Requirements and user needs in the context of quantum gravimetric satellite missions”. In: *COM-ESA Workshop on User Requirements for Space (Quantum) Gravimetry*. Noordwijk, The Netherlands.
- 2021 **Teixeira da Encarnação, J.**, Arnold, D., Bezdek, A., Dahle, C., Guo, J., IJssel, J., Jaeggi, A., Klokocnik, J., Krauss, S., Mayer-Guerr, T., Meyer, U., Sebera, J., Shum, C., Visser, P., Yu Zhang, “Multi-approach gravity field models from Swarm GPS data”. In: *11th Swarm Data Quality Workshop*. Athens.
- 2021 — . “Seven years of monthly low-degree gravity field models from Swarm GPS data”. In: *EGU General Assembly*. Vienna, Austria.
- 2020 **Encarnação, J.**, Arnold, D., Bezdek, A., Dahle, C., Doornbos, E., Guo, J., IJssel, J., Jaeggi, A., Klokocnik, J., Krauss, S., Mao, X., Mayer-Guerr, T., Meyer, U., Sebera, J., Shum, C., Visser, P., Zhang, C., Zhang, Y., “Multi-approach gravity field models from Swarm GPS data”. In: *10th Swarm DQW*. Delft, Netherlands.

- 2019 **Encarnação, J. T.**, Visser, P., Arnold, D., Bezděk, A., Doornbos, E., Guo, J., IJssel, J., Iorfida, E., Jäggi, A., Klokočník, J., Krauss, S., Mao, X., Mayer-Gürr, T., Meyer, U., Sebera, J., Shum, C., Zhang, C., Zhang, Y., "Multi-approach gravity field models from Swarm GPS data". In: *9th Swarm Data Quality Workshop*. 2. Prague, Czech Republic, pp. 16–20. DOI: [10.13140/RG.2.2.34189.90084](https://doi.org/10.13140/RG.2.2.34189.90084).
- 2019 Visser, P., **Teixeira da Encarnação, J.**, 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., "Complete 5-years time series of combined monthly gravity field models derived from Swarm GPS data". In: *EGU General Assembly*. Vol. 21. EGU2019-13412. Vienna, Austria: 7-12 Apr., p. 13412. DOI: [10.13140/RG.2.2.11449.01123](https://doi.org/10.13140/RG.2.2.11449.01123).
- 2018 **Encarnação, 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., "Signal contents of combined monthly gravity field models derived from Swarm GPS data Multi-approach gravity field models from Swarm GPS data". In: *EGU General Assembly*. Vienna, Austria: 8-13 Apr. DOI: [10.13140/RG.2.2.24263.39845](https://doi.org/10.13140/RG.2.2.24263.39845).
- 2018 Jäggi, A., Meyer, U., Schreiter, L., Sterken, V., Dahle, C., Arnold, D., **Encarnação, 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., "Assessment of individual and combined gravity field solutions from Swarm GPS data and mitigation of systematic errors". In: *EGU General Assembly*. EGU2018-8944. Vienna, Austria: 8-13 Apr.
- 2018 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., "Multi-approach Gravity Field Models from Swarm GPS data". In: *42nd COSPAR Scientific Assembly*. July. Pasadena, CA, USA: 14-22 Jul., pp. 14–22.
- 2017 **Teixeira da Encarnação, J.**, Arnold, D., Bezdek, A., Dahle, C., Jäggi, A., Mayer-gürr, T., Sebera, J., Shum, C., Visser, P., Zehentner, N., "Swarm as an Observing Platform for Large Surface Mass Transport Processes". In: *4th Swarm Science Meeting*. Banff, Canada: 20-24 Mar.
- 2015 **Teixeira da 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., "First monthly gravity field solutions derived from GPS orbits of Swarm". In: *AGU Fall Meeting*. San Francisco, CA, USA: 14-18 Dec.
- 2015 **Teixeira da Encarnação, J.**, IJssel, J., Doornbos, E., Visser, P. N., "Frequency domain combination of POD-driven and measured accelerations". In: *5th Swarm Data Quality Workshop*. Paris, France: 7 - 10 Sep.
- 2014 **Teixeira da Encarnação, J.**, IJssel, J., Doornbos, E., Visser, P., "POD-assisted calibration of Swarms Accelerometer Data". In: *4th Swarm Data Quality Workshop*. Postdam, Germany: 2-5 Dec.
- 2014 **Teixeira da Encarnação, J.**, Doornbos, E., IJssel, J., Visser, P. N., "Combination of Swarm's Uncalibrated Accelerometer Data with POD-Based Accelerometry". In: *3rd Swarm Science Meeting*. Copenhagen, Denmark: 19-20 Jun.
- 2014 **Teixeira da Encarnação, J.**, IJssel, J., Doornbos, E., Visser, P. N., "Preliminary analysis of accelerometer data". In: *2nd Swarm Data Quality Workshop*. Rome, Italy: 26-27 Mar.
- 2008 **Encarnação, J.**, Ditmar, P., Liu, X., "Analysis of Satellite Formations in the Context of Gravity Field Retrieval". In: *3rd International Symposium on Formation Flying, Missions and Technologies (SP-654)*. Ed. by K Fletcher. ESA SP-654. Rijswijk, the Netherlands: 23-25 Apr.
- 2002 **Encarnação, J.**, "Single Stage To Orbit Minimum Requirements Through Numerical Simulation". In: *34th COSPAR Scientific Assembly, The Second World Space Congress*. Houston, TX, USA: 10-19 Oct.

Poster presentations

- 2021 **Teixeira da Encarnacao, J.**, Arnold, D., Bezdek, A., Dahle, C., Guo, J., IJssel, J., Jaeggi, A., Klokocnik, J., Krauss, S., Mayer-Guerr, T., Meyer, U., Sebera, J., Shum, C., Visser, P., Yu Zhang, "Monthly low-degree gravity field models from Swarm GPS data for the last 7 years". In: *Scientific Assembly of the International Association of Geodesy*. Beijing: IAG 2021 – 167.

- 2019 **Teixeira da Encarnação, J.**, Visser, P., Arnold, D., Bezdek, A., Doornbos, E., Ellmer, M., Guo, J., Ijssel, J. V. D., Iorfida, E., Jäggi, A., Klokočník, J., Mao, X., Mayer-Gürr, T., Meyer, U., Sebera, J., Shum, C., Zehentner, N., Zhang, Y., Zhang, C., "Earth's Mass Transport Processes Observed by the Swarm Satellites during the GRACE / GRACE-FO Gap". In: *ESA Living Planet Symposium*. Milano, Italy. DOI: [10.13140/RG.2.2.34631.55207](https://doi.org/10.13140/RG.2.2.34631.55207).
- 2018 **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., "Observing Earth's mass transport processes with the Swarm satellites". In: *Gravity, Geoid and Height Systems 2018 (GGHS-2018) Symposium*. Copenhagen, Denmark: 17-21 Sep.
- 2018 **Teixeira da Encarnação, J.**, Save, H., Tapley, B., Rim, H. J., "GRACE's accelerometer scale-factor calibration". In: *GRACE/ GRACE-FO Science Team Meeting*. Potsdam, Germany: 9-11 Oct.
- 2018 **Teixeira da Encarnação, J.**, Save, H., Tapley, B. D., Rim, H. J., "Analysis of GRACE's accelerometer scale-factor calibration". In: *AGU Fall Meeting*. G13C-0528. Washington, D.C.: 10-14 Dec.
- 2018 Zehentner, N., Mayer-Gürr, T., Ellmer, M., **Teixeira da Encarnação, J.**, Visser, P., Doornbos, E., Ijssel, J. V., Mao, X., Iorfida, E., Arnold, D., Jäggi, A., Meyer, U., Bezdek, A., Sebera, J., Klokočník, J., Guo, J., Shum, C., "Investigations of GNSS-derived baselines for gravity field recovery". In: *EGU General Assembly*. EGU2018-11920. Vienna, Austria: 8-13 Apr. DOI: [10.13140/RG.2.2.18307.81440](https://doi.org/10.13140/RG.2.2.18307.81440).
- 2018 Zhang, Y., Shum, C. K., Bezděk, A., Shang, K., Zhang, C., Guo, J., **Teixeira da Encarnação, J.**, Visser, P., "Temporal Gravity Field Recovery Using The Swarm Mission Constellation High-Low GPS Tracking Data And Energy Balance Approach". In: *AGU Fall Meeting*. G13C-0550. Washington D.C.: 10-14 Dec.
- 2017 **Encarnação, J.**, Save, H., Siemes, C., Doornbos, E., Tapley, B., "Temperature corrected-calibration of GRACE's accelerometer". In: *AGU Fall Meeting*. G31B-0904. New Orleans, USA: American Geophysical Union. DOI: [10.13140/RG.2.2.20396.97929](https://doi.org/10.13140/RG.2.2.20396.97929).
- 2017 **Teixeira da 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., "Gravity field models derived from Swarm GPS data". In: *EGU General Assembly*. EGU2017-9218. Vienna, Austria: 23-28 Apr.
- 2016 Doornbos, E., **Teixeira da Encarnação, J.**, Ijss, J., Siemes, C., Grunwaldt, L., Peresty, R., Kraus, J., Flury, J., Apelbaum, G., Olsen, P. E. H., "Thermospheric neutral densities derived from Swarm accelerometer and GPS data". In: *ESA Living Planet Symposium*. Prague, Czech Republic: 9-13 May.
- 2016 Jäggi, A., Meyer, U., Jean, Y., Susnik, A., Dach, R., Weigelt, M., Dam, T., Li, Z., Chen, Q., Flechtner, F., Gruber, C., Poropat, L., Güntner, A., Gouweleeuw, B., Mayer-Gürr, T., Kvas, A., Klinger, B., Martinis, S., Zwenzner, H., Bruinsma, S., Lemoine, J.-M., Biancale, R., Flury, J., Bandikova, T., Bourgogne, S., Steffen, H., **Teixeira da Encarnação, J.**, Horwath, M., "European Gravity Service for Improved Emergency Management - Status and Project Highlights". In: *International Symposium on Gravity, Geoid and Height Systems*. Thessaloniki, Greece: 19-23 Sep.
- 2016 Siemes, C., Grunwaldt, L., Peresty, R., Kraus, J., Doornbos, E., **Teixeira da Encarnação, J.**, Ijssel, J., Flury, J., Apelbaum, G., Olsen, P. E. H., "Improvements of the Swarm Accelerometer Data Processing". In: *ESA Living Planet Symposium*. Prague, Czech Republic: 9-13 May.
- 2016 Sneew, N., Iran Pour, S., Reubelt, T., Daras, I., Murböck, M., Pail, R., Gruber, T., Visser, P., **Teixeira da Encarnação, J.**, Ijssel, J., Others, "ESA SC4MGV Study - Assessment of Satellite Constellations for Monitoring the Variations in Earth Gravity Field". In: *ESA Living Planet Symposium*. Prague, Czech Republic: 9-13 May.
- 2016 **Teixeira da Encarnação, J.**, Arnold, D., Bezdek, A., Dahle, C., Jäggi, A., Mayer-gürr, T., Sebera, J., Visser, P., Zehentner, N., "Gravity field models derived from Swarm GPS data". In: *EGU General Assembly*. EGU2016-59. Vienna, Austria: 17-22 Apr. DOI: [10.13140/RG.2.1.3909.4642](https://doi.org/10.13140/RG.2.1.3909.4642).
- 2015 Astafyeva, E., Zakharenkova, I., Foerster, M., Doornbos, E., **Teixeira da Encarnação, J.**, Siemes, C., "Ionospheric and Thermospheric Response to the 2015 St. Patrick's Day Storm - a Global Multi-Instrumental Overview". In: *AGU Fall Meeting*. San Francisco, CA, USA: 12-16 Dec.
- 2015 Doornbos, E., Siemes, C., **Teixeira da Encarnação, J.**, Peresty, R., Grunwaldt, L., Kraus, J., Holmdahl Olsen, P. E., Ijssel, J., Flury, J., Apelbaum, G., "Processing of Swarm Accelerometer Data into Thermospheric Neutral Densities". In: *AGU Fall Meeting*. Abstract SA31D-2371. San Francisco, CA, USA: 14-18 Dec.

- 2015 **Encarnação, J.**, Ditmar, P., Klees, R., "Impact of Orbit Position Errors on Future Satellite Gravity Models". In: *AGU Fall Meeting*. 14-18 Dec.
- 2014 Bruinsma, S, Doornbos, E, Siemes, C, Perestý, R, Kraus, J, Bezdek, A, IJssel, J, **Teixeira da Encarnação, J**, Visser, P. N., "Results from the First Year of Swarm GPS Receiver and Accelerometer Data". In: *AGU Fall Meeting*. San Francisco, CA, USA: 15-19 Dec.
- 2014 Iran Pour, S, Weigelt, M, Murböck, M, Tonetti, S, Visser, P, Daras, I, **Encarnação, J**, Cesare, S, Siemes, C, IJssel, J, Others, "Search strategies for optimal double pair scenarios for future gravity satellite missions - experience from the ESA SC4MGV project". In: *5th International GOCE User Workshop*. Paris, France: 25-28 Nov.
- 2013 Doornbos, E, Bruinsma, S, Fritsche, B, Visser, P, Van Den IJssel, J, **Teixeira da Encarnação, J.**, Kern, M, "Air density and wind retrieval using GOCE data". In: *ESA Living Planet Symposium*. Edinburgh, United Kingdom: 9-13 Sep.
- 2013 Olsen, N., Alken, P., Beggan, C., Chulliat, A., Doornbos, E., **Encarnação, J.**, Floberghagen, R., Friis-Christensen, E. A., Hamilton, B., Hulot, G., IJssel, J. V. D., Kuvshinov, A. V., Lesur, V., Luhr, H., Macmillan, S., Maus, S., Olsen, P. E. H., Park, J., Plank, G., Püthe, C., Ritter, P., Rother, M., Sabaka, T. J., Stolle, C., Thebault, E., Thomson, A. W. P., Tøffner-Clausen, L., Velimsky, J., Visser, P. N., "SCARF - the swarm satellite constellation application and research facility". In: *ESA Living Planet Symposium*. Edinburgh, United Kingdom: 9-13 Sep.
- 2012 Doornbos, E, Bruinsma, S, Koppenwallner, G, Fritsche, B, IJssel, J, Visser, P, **Teixeira da Encarnação, J**, Kern, M, "Thermospheric density and wind from GOCE thruster activation and accelerometer data". In: *EGU General Assembly*. Vienna, Austria: 22-27 Apr.
- 2012 Gunter, B. C., **Teixeira da Encarnação, J**, Ditmar, P, Klees, R, "Potential contributions to space geodesy from the IridiumNEXT constellation". In: *AGU Fall Meeting*. San Francisco, CA, USA: 3-7 Dec.
- 2011 Gunter, B, **Teixeira da Encarnação, J**, Ditmar, P, Klees, R, "An investigation into new advances in geodesy utilizing future satellite constellations". In: *AGU Fall Meeting*. SA24A-03. San Francisco, CA, USA: 5-9 Dec.
- 2010 Ditmar, P., Hashemi Farahani, H., **Teixeira da Encarnação, J.**, "Mitigation of along-track artifacts in unconstrained mass transport models based on GRACE satellite data". In: *EGU General Assembly*. Vienna, Austria: 2-7 May.
- 2010 Gunter, B, **Teixeira da Encarnação, J**, Ditmar, P, Klees, R, "Using existing satellite constellations to complement current and future dedicated gravity field missions". In: *AGU Fall Meeting*. G41A-0788. San Francisco, CA, USA: 13-17 Dec.
- 2010 Hashemi Farahani, H, Ditmar, P, **Teixeira da Encarnação, J**, Liu, X, "Contribution of an accurate determination of GRACE satellite orbits to precise mass transport modeling". In: *EGU General Assembly*. Vienna, Austria: 2-7 May.
- 2008 **Teixeira da Encarnação, J.**, Ditmar, P. G., Klees, R., "Spectral analysis of positioning modelling errors in gravimetric data". In: *IAG Symposium on Gravity, Geoid, and Earth Observation*. Chania, Greece: 23-27 Jun.
- 2007 **Teixeira da Encarnação, J.**, Ditmar, P. G., Klees, R., "Temporal aliasing in GRACE monthly solutions". In: *Intergeo*. Leipzig, Germany: 25-27 Sep.
- 2007 **Teixeira da Encarnação, J.**, Ditmar, P. G., Klees, R., "Influence of hydrology-related temporal aliasing on the quality of monthly models derived from GRACE satellite gravimetric data". In: *VMSG Symposium*. Utrecht, The Netherlands: 7-8 Nov.