

GREGOR BENJAMIN STEINBRÜGGE

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I received the M.S. degree in physics from Freie Universität Berlin, Germany in 2013 and completed my Ph.D. at the Institute for Geodesy and Geoinformation Science, TU Berlin, Germany in 2018. My thesis on tidal interactions across the Solar System was completed in collaboration with the Institute of Planetary Research at the German Aerospace Center (DLR). I am currently a Postdoctoral Fellow at the Department of Geophysics at Stanford University. I am co-chair of the Europa Clipper Geodesy focus group and an affiliate of the REASON (Radar for Europa Assessment and Sounding: Ocean to Near-surface) instrument. I am further affiliated with the BepiColombo Laser Altimeter (BELA) on the BepiColombo mission, and the Ganymede Laser Altimeter (GALA) on the Jupiter Icy Moons Explorer (JUICE). My current research is on tidal interactions of bodies in our Solar System, ice geophysics, as well as radar and laser geodesy.

EDUCATION

Technische Universität Berlin, Institute for Geodesy and Geoinformation science *2018*
Doctor of Philosophy (Ph.D.)
Summa cum laude (with honors)

Freie Universität Berlin *2013*
Diplom (equivalent to Master of Science)
Major in Physics
Minor in Aerospace Engineering

PROFESSIONAL EXPERIENCE

Stanford University, Department of Geophysics *November 2019 – present*
Postdoctoral Researcher

University of Texas at Austin, Institute for Geophysics *April 2018 – October 2019*
Postdoctoral Researcher

German Aerospace Center (DLR), Institute of Planetary Research *January 2014 – March 2018*
Department of Planetary Geodesy
Graduate Researcher

SHORT-TERM VISITS

Ecole Normale Supérieure, Lyon, France *March 2009 – February 2010*
NASA Jet Propulsion Laboratory, Pasadena, California *October 2015 – January 2016*

AWARDS

Lacmann Fellowship *2018*
Outstanding Student Poster and PICO (OSPP) Award, EGU, Planetary Sciences Division *2014*

ACTIVE PARTICIPATION IN SPACE MISSIONS AND WORKSHOPS

Co-chair of the Europa Clipper geodesy focus group	2020 – present
Europa Clipper interior thematic working group	2018 – present
Keck Institute for Space Studies, Tidal Heating - Lessons from Io and the Jovian System	2018
BepiColombo geodesy and geophysics working group	2017 – present
REASON science data system	2018 – present
REASON altimetry working group	2016 – present
BepiColombo science working team	2016 – present
JUICE science working team	2015 – present

REVIEWER

Icarus, Acta Astronautica, Journal of Applied Remote Sensing, IEEE Geoscience and Remote Sensing Letters, Geomorphology, Earth Planets and Space, IEEE Transactions on Geoscience and Remote Sensing

PANEL PARTICIPATION

NASA Solar System Workings

TEACHING EXPERIENCE

Guest Lecturer for <i>Selected Topics in Planetary Science</i> , Technische Universität Berlin <i>Interior Structure, Tides, Galilean Satellites, Ring Systems</i>	2017
Teaching Assistant and Laboratory Tutor, Freie Universität Berlin	2006 – 2010

ACADEMIC ADVISING AND MENTORING

Christopher Gerekos, Ph.D. student, University of Trento	2019
Martijn Smeets, B.Sc. student, Technical University Delft	2017
Teresa Steinke, M.Sc. student, Karlsruhe Institute of Technology	2015
Trung Nam, M.Sc. student, Technical University Berlin	2015
Tim Schulze, B.Sc. student, Humboldt University Berlin	2015

INVITED TALKS

AGU Fall Meeting, San Francisco	2020
Department of Geophysics, Stanford University	2020
Institute of Planetary Research, German Aerospace Center	2020
Department of Earth and Planetary Science, UC Santa Cruz	2019
AGU Fall Meeting, San Francisco	2018
Institute for Geophysics, University of Texas at Austin	2018

CONVENER

Convener EGU 2020, Session Planetary Dynamics: Shape, Gravity, Orbit, Tides, and Rotation from Observations and Models
Co-convener EGU 2019, Planetary Dynamics: Shape, Gravity, Orbit, Tides, and Rotation from Observations and Models

OUTREACH

Article - The Tides of Mercury on Sciencetrends.com	2019
Speaker, DLR Open Door Event (Long Night of the Sciences)	2015, 2016, 2017
Presenter for DLR at the ILA Berlin Airshow	2016, 2017

PEER-REVIEWED PUBLICATIONS

- IN REVIEW G. Steinbrügge, J.R.C. Voigt, N.S. Wolfenbarger, C.W. Hamilton, K.M. Soderlund, Brine Migration and Impact-Induced Cryovolcanism on Europa, *Geophysical Research Letters*
- G. Steinbrügge, M. Dumberry, A. Rivoldini, G. Schubert, H. Cao, D.M. Schroeder, K.M. Soderlund, Challenges on Mercury's interior structure posed by the new measurements of its obliquity and tides, *Geophysical Research Letters*
- G. Steinbrügge, M.S. Haynes, D.M. Schroeder, K.M. Scanlan, A. Stark, D.A. Young, C. Grima, S. Kempf, G. Ng, D. Buhl, J.R.C. Voigt, T. Roatch, D.D. Blankenship, Altimetry Measurements from Planetary Radar Sounders and Application to SHARAD on Mars, *IEEE Transactions on Geoscience and Remote Sensing*
- K.M. Scanlan, G. Steinbrügge, S.K. Kempf, C. Grima, D.A. Young, D.D. Blankenship, Delay Doppler SAR Focusing and Quantitative Quality Control of Future REASON Data, *IEEE Transactions on Geoscience and Remote Sensing*
- N. Thomas and 45 colleagues (incl. Steinbrügge), The BepiColombo Laser Altimeter, *Space Science Reviews*
- H. Xiao, A. Stark, G. Steinbrügge, H. Hussmann, J. Oberst, Processing of Laser Altimeter Time-of-Flight Measurements to Geodetic Coordinates, *Journal of Geodesy*
- G. Gerekos, C. Grima, G. Steinbrügge, Sanchari Thakur, K.M. Scanlan, D.A. Young, L. Bruzzone, D.D. Blankenship, Martian roughness analogues of European terrains for radar sounder investigations, *Icarus*
- R.N. Thor, R. Kallenbach, U.R. Christensen, P. Gläser, A. Stark, G. Steinbrügge, J. Oberst, Determination of the lunar body tide from global laser altimetry data, *Journal of Geodesy*
- J.R.C. Voigt, C. Hamilton, G. Steinbrügge, S. Scheidt, U. Münzer, A. Hoskuldsson, I. Jonsdottir, T. Thordarson, Geomorphological Characterization of the 20142015 Holuhraun Lava Flow-Field in Iceland *Journal of Volcanology and Geothermal Research*
- D. Castelletti, D.M. Schroeder, G. Steinbrügge, S. Turner, R. Jensen, G.W. Paterson, Polarimetric Bistatic Synthetic Aperture Radar Observations of the Moon using Mini-RF, *IEEE Transactions on Geoscience and Remote Sensing*
- 2020 G. Steinbrügge, J.R.C. Voigt, D.M. Schroeder, A. Stark, M.S. Haynes, K.M. Scanlan, C.W. Hamilton, D.A. Young, H. Hussmann, C. Grima, D.D. Blankenship, The surface roughness of Europa derived from Galileo stereo images, *Icarus* Vol. 343, doi: [10.1016/j.icarus.2020.113669](https://doi.org/10.1016/j.icarus.2020.113669)
- R.N. Thor, R. Kallenbach, U.R. Christensen, A. Stark, G. Steinbrügge, A. Di Ruscio, P. Cappuccio, L. Iess, H. Hussmann and J. Oberst, Prospects for measuring Mercury's tidal Love number h_2 with the BepiColombo Laser Altimeter, *Astronomy & Astrophysics*, Vol. 633, doi: [10.1051/0004-6361/201936517](https://doi.org/10.1051/0004-6361/201936517)

- 2019 G. Steinbrügge, T. Steinke, R. Thor, A. Stark, H. Hussmann, Measuring Ganymedes librations with laser altimetry, *Geosciences* Vol. 9, Iss. 7, doi: [10.3390/geosciences9070320](https://doi.org/10.3390/geosciences9070320)
- H. Hussmann and 39 colleagues (incl. G. Steinbrügge), The Ganymede laser altimeter (GALA): key objectives, instrument design, and performance, *CEAS Space Journal*, Vol 11, 381390, doi: [10.1007/s12567-019-00282-8](https://doi.org/10.1007/s12567-019-00282-8)
- H. Araki, K. Ishibashi, N. Namiki, H. Noda, M. Kobayashi, K. Enya, M. Ozaki, T. Mizuno, Y. Saito, K. Touhara, S. Oshigami, S. Kashima, J. Kimura, S. Kobayashi, G. Steinbrügge, A. Stark, C. Althaus, S. Del Tognò, K. Lingenauber, H. Hussmann, Performance Model Simulation of Ganymede Laser Altimeter (GALA) for the JUICE Mission, *Transactions of the Japan Society for Aeronautical and Space Sciences, Aerospace Technology Japan*. Vol. 17, 150-154, doi: [10.2322/tastj.17.150](https://doi.org/10.2322/tastj.17.150)
- J. Kimura, H. Hussmann, S. Kamata, K. Matsumoto, J. Oberst, G. Steinbrügge, A. Stark, K. Gwinner, S. Oshigami, N. Namiki, K. Lingenauber, K. Enya, K. Kuramoto, S. Sasaki, Science Objectives of the Ganymede Laser Altimeter (GALA) for the JUICE Mission, *Transactions of the Japan Society for Aeronautical and Space Sciences, Aerospace Technology Japan*. Vol. 17, 234-243, doi: [10.2322/tastj.17.234](https://doi.org/10.2322/tastj.17.234)
- K.M. Scanlan, C. Grima, G. Steinbrügge, S.D. Kempf, D. A.Young, D.D. Blankenship, Geometric determination of ionospheric total electron content from dual frequency, radar sounding measurements, *Planetary and Space Science* (2019), Vol. 178, 104696, doi: [10.1016/j.pss.2019.07.010](https://doi.org/10.1016/j.pss.2019.07.010)
- 2018 G. Steinbrügge, D.M. Schroeder, M.S. Haynes, H. Hussmann, C. Grima and D.D. Blankenship, Assessing the potential for measuring Europa's tidal Love number h_2 using radar sounder and topographic imager data, *Earth and Planetary Science Letters*. Vol. 482, 334-341, doi:[10.1016/j.epsl.2017.11.028](https://doi.org/10.1016/j.epsl.2017.11.028)
- A. Stark, J. Oberst, F. Preusker, S. Burmeister, G. Steinbrügge, H. Hussmann, The reference frames of Mercury after the MESSENGER mission, *Journal of Geodesy* (2018) 92:949961, doi [10.1007/s00190-018-1157-8](https://doi.org/10.1007/s00190-018-1157-8)
- G. Steinbrügge, A. Stark, H. Hussmann, J. Oberst, The performance of the Bepi-Colombo Laser Altimeter (BELA) prior launch and prospects for Mercury orbit operations, *Planetary and Space Science* 159 (2018) 84-92. doi: [10.1016/j.pss.2018.04.017](https://doi.org/10.1016/j.pss.2018.04.017)
- G. Steinbrügge, S. Padovan, H. Hussmann, T. Steinke, A. Stark, J. Oberst, Viscoelastic Tides of Mercury and the Determination of its Inner Core Size, *Journal of Geophysical Research: Planets*, 123, 27602772. doi: [10.1029/2018JE005569](https://doi.org/10.1029/2018JE005569)
- H. Hussmann, J. Oberst, A. Stark, G. Steinbrügge, The BepiColombo Laser Altimeter (BELA): An instrument for geodetic investigations of Mercury, Chapter in *Planetary Remote Sensing and Mapping*, Editors: Bo Wu, Kaichang Di, Jürgen Oberst, Irina Karachevtseva, ISBN: 9780429000515

- 2017 H. Hussmann, D. Shoji, G. Steinbrügge, A. Stark and F. Sohl, Constraints on dissipation in the deep interiors of Ganymede and, Europa from tidal phase-lags, *Celestial Mechanics and Dynamical Astronomy*. Vol. 126, pp. 131-144, doi: [10.1007/s10569-016-9721-0](https://doi.org/10.1007/s10569-016-9721-0)
- 2015 G. Steinbrügge, A. Stark, H. Hussmann, F. Sohl and J. Oberst, Measuring tidal deformations by laser altimetry, A performance model for the Ganymede Laser Altimeter, *Planetary and Space Science*. Vol. 117, pp. 184-191, doi: [10.1016/j.pss.2015.06.013](https://doi.org/10.1016/j.pss.2015.06.013)

CONFERENCE PRESENTATIONS

- 2020 R. Thor, R. Kallenbach, U. Christensen, P. Glser, A. Stark, G. Steinbrügge, J. Oberst, Simultaneous retrieval of the lunar solid body tide and topography from laser altimetry, EGU General Assembly 2020
- S.T. Peters, D.M. Schroeder, A. Romero-Wolf, G. Steinbrügge, Passive Radar Investigations of Io Using Jupiter's Radio Emissions, 51st Lunar and Planetary Science Conference (LPSC)
- K.M. Scanlan, D.A. Young, G. Steinbrügge, C. Grima, S.D. Kempf, D.D. Blankenship, Quantitative Approaches to Assess the Quality in Synthetic Aperture Radar Focusing of Orbital Radar Sounding Measurements, 51st Lunar and Planetary Science Conference (LPSC)
- G Steinbrügge, A Rivoldini, M Dumbery, G Schubert, DM Schroeder, KM Soderlund, The (Still) Problematic Case of Mercury's Interior Structure, 51st Lunar and Planetary Science Conference (LPSC)
- C. Grima, C. Gerekos, K.M. Scanlan, G. Steinbrügge, D.A. Young, S.D. Kempf, D.D. Blankenship, Mars as an Analog to Anticipate Radar Surface Reflectivity at Europa, 51st Lunar and Planetary Science Conference (LPSC)
- R.N. Thor, R. Kallenbach, U.R. Christensen, A. Stark, G. Steinbrügge, A. Di Ruscio, P. Cappuccio, L. Iess, H. Hussmann, J. Oberst, Prospects for the Measurement of Mercury's Solid Body Tides with the BepiColombo Laser Altimeter, 51st Lunar and Planetary Science Conference (LPSC)
- J.R.C. Voigt, G. Steinbrügge, N.S. Wolfenbarger, C.W. Hamilton, K.M. Soderlund, D.A. Young, S. Vance, D.M. Schroeder, D.D. Blankenship, Melt Mobilization on Europa and its Application to Manannan Crater, 51st Lunar and Planetary Science Conference (LPSC)
- A.S. McEwen, K. de Kleer, R.S. Park, C.J. Bierson, A.G. Davies, D. DellaGuistina, A.I. Ermakov, J. Fuller, C. Hamilton, C. Harris, H. Hay, J. Keane, L. Kestay, K. Khurana, K. Kirby, V. Lainey, I. Matsuyama, K.E. Mandt, C. McCarthy, F. Nimmo, M. Panning, A. Pommier, J. Rathbun, G. Steinbrügge, D. Stevenson, V.C. Tsai, E. Turtle, Tidal Heating: Lessons from Io and the Jovian System; Relevance to Exoplanets, 51st Lunar and Planetary Science Conference (LPSC)

2019

Gregor Steinbrügge, Mark Haynes, Kirk Michael Scanlan, Duncan A Young, Cyril Grima, Scott D Kempf, Dustin M Schroeder, Donald D Blankenship, SHARAD Altimetry on Mars: Towards an improved, global digital terrain model, AGU Fall Meeting

D. Breuer, F.W. Wagner, F. Sohl, H. Hussmann, L. Iess, E. Mazarico, S.E. Smrekar, A. Stark, G. Steinbrügge, The interior structure and thermal state of Venus: what we can learn from future missions, AGU Fall Meeting

H. Xiao Haifeng, A. Stark, S. Annibali, G. Steinbrügge, K. Gwinner, J. Oberst, Registration of MOLA profiles to HRSC DTMs: Prospects for mapping of seasonal ice cover variations at the Martian poles, EPSC-DPS Joint Meeting

C. Gerekos, C. Grima, G. Steinbrügge, K. Scanlan, D. Young, L. Bruzzone, D. Blankenship, Comparing the multifractal properties of European and Martian surfaces, EPSC-DPS Joint Meeting

R.N. Thor, R. Kallenbach, U.R. Christensen, A. Stark, G. Steinbrügge, A. di Ruscio, P. Cappuccio, L. Iess, H. Hussmann, J. Oberst, Expected insights on Mercurys interior from the BepiColombo Laser Altimeter, EPSC-DPS Joint Meeting

K. M. Scanlan, D. A. Young, C. Grima, G. Steinbrügge, S. D. Kempf and D. D. Blankenship, Englacial Radar Attenuation Rates in the Promethei Lingula Area of the Martian South, Polar Layered Deposits, 49th Lunar and Planetary Science Conference (LPSC), Woodlands, TX, March 18-22, Abstract 1994.

C. Grima, G. Steinbrügge, K.M. Scanlan, D.A. Young, N.E. Putzig, M.R. Perry, B.A. Campbell, S.D. Kempf, D.D. Blankenship, Deciphering the Martian Surface and Near-Surface with Radar Statistics, 50th Lunar and Planetary Science Conference (LPSC), Woodlands, TX, March 18–22, Abstract 1925.

R.S. Park, K. de Kleer, A. McEwen, C.J. Bierson, A.G. Davies, D. DellaGiustina, A.I. Ermakov, J. Fuller, C. Hamilton, C. Harris, H. Hay, R.A. Jacobson, J. Keane, L. Kestay, K. Khurana, K. Kirby, V. Lainey, I. Matsuyama, C. McCarthy, F. Nimmo, M. Panning, A. Pommier, J. Rathbun, G. Steinbrügge, D. Stevenson, V.C. Tsai, and E. Turtle, Tidal Heating: Lessons from Io and the Jovian System (Report from the KISS Workshop), 50th Lunar and Planetary Science Conference (LPSC), Woodlands, TX, March 18-22, Abstract 1925.

A. Stark, H. Hussmann, G. Steinbrügge, Jürgen Oberst, Thomas Roatsch, Resonant Rotation States of the Jovian and Saturnian Satellites, 50th Lunar and Planetary Science Conference (LPSC), Woodlands, TX, March 18–22, Abstract 2490.

G. Steinbrügge, K.M. Scanlan, D.A. Young, C. Grima, S.D. Kempf and D.D. Blankenship, SHARAD Radar Altimetry and Geodesy, 50th Lunar and Planetary Science Conference (LPSC), Woodlands, TX, March 18–22, Abstract 1993.

2018

Gregor Steinbrügge, PRIME A concept for passive radar investigation of Jupiters moon Io (and other terrestrial bodies) - *invited*, AGU Fall meeting 2018, Dec. 10.– 14., 2018, Washington, D.C.

2018

Gregor Steinbrügge, Joana R. C. Voigt, Alexander Stark, Bernd Giese, Dustin M Schroeder, Mark Haynes, Duncan A Young, Cyril Grima, Hauke Hussmann, and Donald D Blankenship, Reassessing the surface roughness of Europa using Galileo stereo images, AGU Fall meeting 2018, Dec. 10.- 14., 2018, Washington, D.C.

Christine McCarthy, McEwen Alfred, Katherine de Kleer, Ryan S. Park, Carver Jay Bierson, Daniella DellaGiustina, Krishan K. Khurana, Ashley Gerard Davies, Anton Ermakov, Jim Fuller, Christopher Hamilton, Camilla D. K. Harris, Hamish Hay, Kenneth Hibbard, Robert A. Jacobson, James Tuttle Keane, Valery Lainey, Isamu Matsuyama, Francis Nimmo, Mark P. Panning, Julie Rathbun, Gregor Steinbrügge, Victor C. Tsai, David J Stevenson, Elizabeth P Turtle, and Anne Pommier, How do planetary bodies respond to periodic tidal forcing and how does that, influence heat flow and orbital evolution? Report from the KISS Workshop entitled Tidal Heating-Lessons from Io and the Jovian System, AGU Fall meeting 2018, Dec. 10.-14., 2018, Washington, D.C.

Duncan A. Young, Cyril Grima, Gregor Steinbrügge, Kirk Michael Scanlan, Scott D. Kempf, Donald D. Blankenship and REASON team, REASON For Europa: Data products and algorithms, AGU Fall meeting 2018, Dec. 10-14, 2018, Washington, D.C.

Joana R. C. Voigt, Christopher Hamilton, Stephen P. Scheidt, Gregor Steinbrügge, Ulrich Mnzer, Armann Hoskuldsson, Ingibjrg Jnsdottir, Thor Thordarson and Patrick Whelley, Facies Characterization of the 20142015 Holuhraun Lava Flow Field from Remote Sensing, Data and Field Observations, AGU Fall meeting 2018, Dec. 10-14, 2018, Washington, D.C.

G. Steinbrügge, Sebastiano Padovan, Hauke Hussmann, Teresa Steinke, Alexander Stark, and Jrgen Oberst, Viscoelastic Tides of Mercury and Implications for its Inner Core Size, EPSC, Berlin, Germany, September 16-21, 2018.

Alexander Stark, Jrgen Oberst, Hauke Hussmann, and Gregor Steinbrügge, Mercury's rotational state from self-registration of Mercury Laser Altimeter profiles, EPSC, Berlin, Germany, September 16-21, 2018.

Hauke Hussmann, Kay Lingenauber, Reinald Kallenbach, Jrgen Oberst, Keigo Enya, Masanori Kobayashi, Noriyuki Namiki, Jun Kimura, Nicolas Thomas, Luisa Lara, Gregor Steinbrügge, Alexander Stark, Christian Httig, Fabian Ldicke, Horst-Georg Ltzke, Thomas Behnke, Christian Althaus, Simone del Togno, Belinda Wendler, and Harald Michaelis

The Ganymede Laser Altimeter (GALA) for ESAs Jupiter Icy Moons Explorer (JUICE) Mission, EPSC, Berlin, Germany, September 16-21, 2018.

2018

G. Steinbrügge, Lida Fanara, David Haack, Maximilian Hamm, Alexandra Heffels, Maxime Maurice, Athanasia Nikolaou, Yaquelin Miriam Rosas Ortiz, Indhu Varatharajan, Dustin Schroeder, Konstantinos Zikidis, Hauke Hussmann, and Tilmann Spohn, PRIME A concept for passive radar investigation of Jupiter's moon Io, EPSC, Berlin, Germany, September 16-21, 2018.

G. Steinbrügge, S. Padovan, H. Hussmann, T. Steinke, A. Stark, J. Oberst, Viscoelastic Tides of Mercury and Implications for its Inner Core Size, 49th Lunar and Planetary Science Conference (LPSC), Woodlands, TX, March 19-23, 2018, Abstract 1978.

J. R. C. Voigt, C. W. Hamilton, L. Fanara, and G. Steinbrügge, A revised Geologic History for the Major Flow Units in Eastern Elysium Planitia, Mars, 49th Lunar and Planetary Science Conference (LPSC), Woodlands, TX, March 19-23, 2018, Abstract 1493.

G. Steinbrügge, S. Padovan, H. Hussmann, T. Steinke, A. Stark, J. Oberst, Viscoelastic Tides of Mercury and Implications for its Inner Core Size, EGU 2018 General Assembly, Vienna

G. Steinbrügge, L. Fanara, D. Haak, M. Hamm, A. Heffels, M. Maurice, A. Nikolaou, Y. Rosas-Ortiz, A. Heffels, I. Varatharajan, D. Schroeder, K. Zikidis, H. Hussmann, T. Spohn, PRIME - A concept for passive radar investigation of Jupiter's moon Io, EGU 2018 General Assembly, Vienna

2017 G. Steinbrügge, A. Stark., H. Hussmann, K. Wickhusen and J. Oberst, Prospects for the future investigations of Mercury by the BepiColombo Laser Altimeter (BELA), EGU 2017 General Assembly, Abstract 9246, Vienna

H. Hussmann, D. Shoji, G. Steinbrügge, A. Stark and F. Sohl, Dissipation in the deep interiors of Ganymede and Europa, EGU 2017 General Assembly, Abstract 9527, Vienna

R. Thor, R. Kallenbach, U. Christensen, J. Oberst, A. Stark and G. Steinbrügge, Improved algorithms for the retrieval of the h_2 Love number of Mercury from laser altimetry data, EGU 2017 General Assembly, Abstract 7789, Vienna

A. Stark, H. Hussmann, G. Steinbrügge, P. Gläser, K. Gwinner, J. Oberst, M. Casasco and G. Cremonese, In-flight alignment calibration between a laser altimeter and an imaging system - Application to the BepiColombo mission, EGU 2017 General Assembly, Abstract 8364, Vienna

G. Steinbrügge, D.M. Schroeder, M.S. Haynes, H. Hussmann, C. Grima, and D.D. Blankenship, Assessing the potential for measuring Europa's tidal Love number h_2 , using radar sounder and topographic imager data, EGU 2017 General Assembly Abstract 9205, Vienna

2016 C. Althaus, H. Hussmann, K. Lingenauber, K. Kallenbach, H. Michaelis, J. Oberst, S. Del Torno, Simone, G. Steinbrügge, K. Enya and M. Kobayashi, The Ganymede Laser Altimeter – Instrument design overview with radiation hard transmitter, 3rd International Workshop on Instrumentation for Planetary Missions, Oct. 24.–27., 2016, Pasadena, USA.

2015 G. Steinbrügge, H. Hussmann, A. Stark and F. Sohl, Measuring Ganymede's Tidal Deformation by Laser Altimeter, 12th Annual Meeting Asia Oceania Geosciences Society (AOGS), 2. Aug. – 7. Aug., Singapore.

G. Steinbrügge, H. Hussmann, F. Sohl and J. Oberst, The impact of ice I rheology on interior models of Ganymede: The elastic vs. the visco-elastic case, EGU General Assembly, 12.–17. Apr, Vienna.

2015

G. Steinbrügge, H. Hussmann, A. Stark, F. Sohl and J. Oberst, Measuring Ganymede's Tidal Deformation by Laser Altimetry: A performance Analysis for the GALA Experiment, AGU Fall meeting 2015, 14.– 18. Dec. 2015, San Francisco.

T. Steinke, A. Stark, G. Steinbrügge, H. Hussmann and J. Oberst, Estimation of Ganymede's Topography, Rotation and Tidal Deformation - a Study of Synthetic Ganymede Laser Altimeter Observations, European Planetary Science Congress 27. Sep – 02. Oct., Nantes.

J. Voigt, E. Hauber, D. Reiss, H. Hiesinger, A. Johnsson, S. van Gasselt, M. Balme, J.W. Head, J.P. de Vera, G. Steinbrügge, R. Jaumann, Topographic control of sorted circle morphology on Svalbard, EGU General Assembly, 12. April - 17. April 2015, Vienna, Austria.