

1994/1995

1. Martinec, Z.: Computations of the gravimetric geoid in the Rocky Mountains and comparison with the geometric (GPS) geoid. Seminar at Geodetic Institute, Stuttgart University, November 11, 1994
2. Martinec, Z.: Stability investigations of downward continuation problem of gravity from the Earth's surface to the geoid. 21th General Assembly of the IUGG, Boulder, (U.S.A.), July 1-14, 1995.
3. Martinec, Z.: The BVP on geoid determination - a permanent source of surprise. Seminar at the Geodetic Institute, Karlsruhe University, December 15, 1995.

1996

4. Martinec, Z.: Gravity field and isostasy. The 5th International Winter Seminar on Geodynamics: Gravity in Time and Space', Sopron (Hungry), 19.2.- 24.2.1996.
5. Martinec, Z.: Do we need a precise geoid? Seminar at Ecole Normale Superieure de Lyon, Department of Sciences de la Terre, April 15, 1996.
6. Martinec, Z. and C.Matyska: On the solvability of the Stokes pseudo-boundary value problem for geoid determination. 21th General Assembly of the EGU, Hague (Netherlands), May 6-10, 1996 (poster).
7. Martinec, Z.: Dynamic Geodesy. Two-week course for M.Sc. students at the Toosi University in Tehran, June 1-15, 1996 (invited lecturer).
8. Martinec, Z.: Stokes's two-boundary-value problem. Seminar at the Department of Geomatics and Geodesy, University of New Brunswick, September 25, 1996.
9. Martinec, Z.: The inverse gravimetric problem for the density jump on the Moho. First Meeting of Special Study Group 4.170 on Integrated Inverse Gravity Modelling, Walferdange/Luxembourg, October 27 -30, 1996.
10. Martinec, Z.: Can a precise geoid be used for inverse gravity modelling? First Meeting of Special Study Group 4.170 on Integrated Inverse Gravity Modelling, Walferdange/ Luxembourg, October 27-30, 1996.

1997

11. Martinec, Z.: Geoid computations and isostasy: An example from the Rocky Mountains. Seminar at GeoForschungsZentrum in Potsdam, February 26, 1997.
12. Martinec, Z.: Inversion of low-degree geoid undulations in terms of mantle viscosity. Seminar at GeoForschungsZentrum in Potsdam, September 25, 1997.
13. Martinec, Z.: Spectral, initial-value approach for viscoelastic response of a spherical Earth with a 3-D viscosity. Seminar at GeoForschungsZentrum in Potsdam, September 26, 1997.
14. Martinec, Z.: Discrete downward continuation of gravity for precise geoid determination. Workshop on Inverse Problems of Geodesy and Geophysics, University of Kaiserslautern, December 4-5, 1997.

15. Martinec, Z.: The ellipsoidal Stokes boundary-value problem. Seminar at Geodetic Institute, Stuttgart University, December 11, 1997.

1998

16. Martinec, Z.: Spectral-finite-element approach to 3-D electromagnetic induction in a spherical Earth. Seminář oddělení konstruktivních metod matematické analýzy, 17.dubna, 1998.
17. Martinec, Z.: The role of magnetic vector potential in 2-D electromagnetic induction in a spherical Earth. European Geophysical Society, 23th General Assembly of the EGS, Nice, April 20-24, 1998.
18. Martinec, Z.: Forward modelling of electromagnetic induction in a 3-D earth. Seminar at GeoForschungsZentrum in Potsdam, August 24, 1998.
19. Martinec, Z.: Construction of Green's function to the Stokes problem on an ellipsoid of revolution. 2nd Joint Meeting of the IGC and IGeC, Trieste, September 7-12, 1998.
20. Martinec, Z.: Viscoelastic relaxation in two eccentrically nested spheres. 2nd SSG 1.176 Meeting, Potsdam, November 23-25, 1998.
21. Martinec, Z.: Forward modelling of electromagnetic induction in a 3-D earth. Seminar at the Department of Geophysics and Meteorology, Braunschweig University, November 26, 1998.

1999

22. Martinec, Z.: The inverse gravimetric problem in global scale. Seminar at the Department of Geodesy and Photogrammetry, Royal Institute of Technology in Stockholm, March 3, 1999.
23. Martinec, Z.: The viscoelastic relaxation of a 3-D sphere. Seminar at the Department of Geodesy and Photogrammetry, Royal Institute of Technology in Stockholm, March 25, 1999.
24. Martinec, Z.: Viscoelastic relaxation in a 3-D earth. Seminar at GeoForschungsZentrum in Potsdam, June 3, 1999.
25. Martinec, Z.: Spectral-finite-element approach to the 3-D viscoelastic relaxation in a spherical earth. The deep Earth, Theory Experiment and Observation. Acquafredda di Maratea, Italy, September 11-16, 1999 (poster).
26. Martinec, Z.: Forward modelling of postglacial viscoelastic response of an Earth model with a 3-D distribution of mantle viscosity. Seminar at Onsala Space Observatory, October 6, 1999.
27. Martinec, Z.: Stokes's two-boundary-value problem. In: Quo vadis geodesia ... ? Festschrift for Erik W. Grafarend to the occasion of his 60th birthday, Stuttgart, November 4-5, 1999.
28. *Martinec, Z.* and *Velínský, J.*: Spectral-finite-element approach to three dimensional electromagnetic induction in a spherical earth. 1999 Fall Meeting of the AGU, December 13-17, 1999, San Francisco (poster).

2000

29. Martinec, Z.: Forward modelling of postglacial viscoelastic relaxation of an earth model with a 3-D distribution of mantle viscosity, Seminar at Geodetic Institute, Stuttgart University, April 12, 2000.
30. Martinec, Z.: Spectral-finite-element approach to three-dimensional viscoelastic relaxation in a spherical earth. 25th General Assembly of the EGS, Nice, April 25-29, 2000.

31. *Martinec, Z.* and *Wolf, D.*: Material versus local incompressibility and its influence on glacial-isostatic adjustment. 25th General Assembly of the EGS, Nice, April 25-29, 2000 (poster).
32. *Wolf, D.* and *Martinec, Z.*: Compressible viscoelastic field theory. 25th General Assembly of the EGS, Nice, April 25-29, 2000.
33. *Martinec, Z.*: Continuum Mechanics. Two-week course for M.Sc. students at the Toosi University in Tehran, May 16-31, 2000 (invited lecturer).
34. *Martinec, Z.*: Spectral–finite-element approach to three-dimensional viscoelastic relaxation in a spherical earth. Seminar at the Ecole Normale Supérieure, Paris, November 28, 2000.

2001

35. *Martinec, Z.*: Solutions for 2D and 3D viscoelastic earth models. 7th Int. Winter Seminar on 'Viscoelastic Theories in Geodynamics', Sopron (Hungary), February 20–23, 2001 (invited lecture).
36. *Martinec, Z.*, *Čadek, O.*, *Fleitout, L.*: Can the 1D viscosity profiles inferred from postglacial rebound data be affected by lateral changes in the lithospheric thickness? 26th General Assembly of the EGS, Nice, March 26, 2001.
37. *Martinec, Z.*, *Grafarend, E. W.*: Green's function solution to gradiometric boundary-value problems. 26th General Assembly of the EGS, Nice, March 29, 2001.
38. *Martinec, Z.*, *Wolf, D.*, *Čadek, O.*: Effects of lateral variations in lithospheric thickness on post-glacial rebound modelling. IAG Int. Symp. on 'Recent Crustal Movements', Helsinki, August 27–31, 2001.
39. *Martinec, Z.*, *Wolf, D.*: Effects of lateral variations in lithospheric thickness on post-glacial rebound modelling. Geodetic Week 2001, Köln, September 18–21.
40. *Martinec, Z.*, *Grafarend, E. W.*: Geodetic boundary-value problems for precise geoid determination. Geodetic Week 2001, Köln, September 18–21 (invited lecture).
41. *Martinec, Z.*: Semi-analytical approach to GIA in a spherical earth with an axisymmetric craton. Mini-symposium on 'Mantle Viscosity: Inference From Glacial Isostasy and Non-Hydrostatic Geoid', Prague, October 24–26, 2001.
42. *Velínský, J.*, *Martinec, Z.*: Initial-value approach to the electromagnetic induction in a heterogeneous sphere. 2001 Fall Meeting of the AGU, December 10-15, 2001, San Francisco (poster).

2002

43. *Martinec, Z.*: Effects of lateral changes in lithospheric thickness on postglacial rebound modelling. Seminar at Geodetic Institute, Stuttgart University, January 17, 2002.
44. *Martinec, Z.*: Two-dimensional spatiotemporal electromagnetic induction along a satellite trajectory. 1st CHAMP Science Meeting, GFZ Potsdam, January 22-25, 2002.
45. *Martinec, Z.* and *Wolf, D.*, 2002. Significance of 2-D viscosity structure in global isostatic adjustment. Second SEAL Progress Meeting, GFZ Potsdam, February 20, 2002.
46. *Martinec, Z.*, *Wolf, D.*: Inverting the Fennoscandian land uplift in terms of a 2D viscosity structure with a cratonic lithospheric root. 27th General Assembly of the EGS, Nice, April 24, 2002.
47. *Wolf, D.*, *Fleming, K.*, *Martinec, Z.*: A reinterpretation of the Fennoscandian relaxation-time spectrum for a viscoelastic lithosphere. Gravity and Geoid 2002, Thessaloniki, Greece, August 30, 2002.

48. Hagedoorn, J., Martinec, Z., *Wolf, D.*: Implementing the sea-level equation in the spectral finite-element domain: the influence of different ocean models in glacial-isostatic adjustment. Gravity and Geoid 2002, Thessaloniki, Greece, August 30, 2002.
49. *Martinec, Z.*, *Wolf, D.*: Gravitational signatures of Pleistocene and recent glacial changes. Round-table discussion on DFG Priority Program "Mass Transports and Mass Anomalies", Bonn, September 23, 2002.
50. Velínský, J., *Everett, M.*, *Martinec, Z.*: EM induction in 2-D and 3-D heterogeneous sphere: time-domain and frequency-domain forward solvers. 4th Oersted International Science Team Conference, Copenhagen, Denmark, September, 26, 2002 (poster).
51. *Martinec, Z.*: Spherical geodetic boundary-value problems for external gravitational potential determination. 7th Geodetic Week, Frankfurt am Main, October 15–17, 2002.
52. *Martinec, Z.*, *Wolf, D.*: Gravitational-viscoelastic relaxation of a spherical earth with a cratonic lithosphere. 7th Geodetic Week, Frankfurt am Main, October 15–17, 2002.
53. *Martinec, Z.*: Spherical harmonic analysis of regularly distributed data on a sphere with a uniform and a non-uniform distribution of data uncertainties. Seminar at Geodetic Institute, Stuttgart University, November 21, 2002.
54. *Martinec, Z.*, *Wolf, D.*: Inverting the Fennoscandian relaxation-time spectrum in terms of a 2D viscosity structure with a cratonic lithosphere. 2002 Fall Meeting of the AGU, December 6-10, 2002, San Francisco (poster).
55. *Wolf, D.*, *Hagedorn, J.*, *Martinec, Z.*: A new time-domain method of implementing the sea-level equation in glacial-isostatic adjustment. 2002 Fall Meeting of the AGU, December 6-10, 2002, San Francisco (poster).

2003

56. *Martinec, Z.*: Linearized rotational theory for a 3-D viscoelastic earth model. SSG 4.189 Workshop, Lanzarote, Spain, February 20, 2003.
57. *Martinec, Z.*, *Wolf, D.*: Inverting the Fennoscandian relaxation-time spectrum in terms of an axisymmetric viscosity distribution. SSG 4.189 Workshop, Lanzarote, Spain, February 19, 2003.
58. *Hagedoorn, J.*, *Martinec, Z.*, *Wolf, D.*: A time-domain method of implementing the sea-level equation for a 3-D viscoelastic earth model. SSG 4.189 Workshop, Lanzarote, Spain, February 20, 2003.
59. *Hagedoorn, J.*, *Martinec, Z.*, *Wolf, D.*: A new time-domain method of implementing the sea-level equation in glacial-isostatic adjustment. 63. Jahrestagung der DGG, Jena, February 25, 2003 (poster).
60. *Martinec, Z.*, *Wolf, D.*: Inverting the Fennoscandian relaxation-time spectrum in terms of a 2-D viscosity distribution with a cratonic lithosphere. 63. Jahrestagung der DGG, Jena, February 25, 2003 (poster).
61. *Martinec, Z.*, *Wolf, D.*: Viscoelastic relaxation of a 3-D earth model: theory, implementation and examples. The 3rd SEAL progress meeting, GFZ Potsdam, March 4, 2003.
62. *Hagedoorn, J.*, *Martinec, Z.*, *Wolf, D.*: Solution of the sea-level equation: theory, implementation and examples. The 3rd SEAL progress meeting, GFZ Potsdam, March 4, 2003.

63. Hagedoorn, J., Martinec, Z., *Wolf, D.*: A new time-domain method implementing the sea-level equation in glacial-isostatic adjustment. EGS-AGU-EUG Joint Assembly, Nice, April 7, 2003 (poster).
64. *Martinec, Z.*, Wolf, D.: Inverting the Fennoscandian relaxation-time spectrum in terms of a 2-D viscosity structure with a cratonic lithosphere. EGS-AGU-EUG Joint Assembly, Nice, April 7, 2003.
65. Martinec, Z.: The transient electromagnetic induction signals at satellite altitudes. GFÚ ČSAV, June 10, 2003.
66. Fleming, K., Martinec, Z., Hagedoorn, J., Wolf, D.: Contemporary changes in the geoid about Greenland: predictions relevant to gravity space missions. 2nd CHAMP Science Meeting, GFZ Potsdam, September 1-4, 2003 (poster).
67. Fleming, K., Martinec, Z., Hagedoorn, J., Wolf, D.: Contemporary changes in the geoid about Greenland: predictions relevant to gravity space missions. 8th European Workshop on Numerical Modeling of Mantle Convection and Lithospheric Dynamics, Hrubá Skála, September 13-18, 2003 (poster).
68. Hagedoorn, J., Martinec, Z., Wolf, D.: A time-domain method of implementing the sea-level equation in GIA for a rotating earth. 8th European Workshop on Numerical Modeling of Mantle Convection and Lithospheric Dynamics, Hrubá Skála, September 13-18, 2003 (poster).
69. *McCreadie, H.*, Martinec, Z.: Geomagnetic induction modelling based on CHAMP magnetic vector data. 2nd CHAMP Science Meeting, GFZ Potsdam, September 1-4, 2003.
70. *Sasgen I.*, Hagedoorn, J., Klemann, V., Martinec, Z., Wolf, D.: Temporal variations of the geoid due to present and past glacial changes in Antarctica. 2nd CHAMP Science Meeting, GFZ Potsdam, September 1-4, 2003.
71. Sasgen I., Hagedoorn, J., Klemann, V., Martinec, Z., Wolf, D.: Temporal variations of the geoid due to present and past glacial changes in Antarctica. 9th International Symposium on Antarctic Earth Sciences, AWI Potsdam, September 8-12, 2003 (poster).
72. Sasgen I., Hagedoorn, J., Klemann, V., Martinec, Z., Wolf, D.: Temporal variations of the geoid due to present and past glacial changes in Antarctica. 8. Geodätisches Woche/Intergeo, Hamburg, September 17, 2003 (poster).
73. *Martinec, Z.*, McCreadie, H.: Geomagnetic induction modelling based on CHAMP magnetic vector data. AGU 2003 Fall Meeting, December 8-12, 2003, San Francisco.
74. Fleming, K., *Martinec, Z.*, Hagedoorn, J., Wolf, D.: Geoid change about Greenland resulting from past and present-day changes in the Greenland Ice Sheet. AGU 2003 Fall Meeting, December 8-12, 2003, San Francisco (poster).

2004

75. Martinec, Z.: Viscoelastic relaxation of a 3-D earth model: theory, implementation and examples. Final SEAL Project meeting, GFZ Potsdam, January 27, 2004.
76. *Hagedoorn, J.*, Martinec, Z., Wolf, D., Klemann, V.: Glacial isostatic adjustment and recent sea-level change: the influence of Pleistocene ice sheet evolution on tide-gauge measurements. European Geosciences Union, 1st General Assembly, Nice, France, 25–30 April, 2004 (poster).

77. *Martinec, Z.*, Hagedoorn, J.: Linearized rotational response of a 3-D viscoelastic earth induced by glacial isostatic adjustment: inertia-tensor perturbations. European Geosciences Union, 1st General Assembly, Nice, France, 25–30 April, 2004 (poster).
78. *Velínský, J.*, Martinec, Z., Everett, M.E.: Electromagnetic induction: Lateral variations in mantle electrical conductivity beneath the Pacific region inferred from CHAMP magnetic vector data. European Geosciences Union, 1st General Assembly, Nice, France, 25–30 April, 2004.
79. Martinec, Z.: Geomagnetic induction modelling based on CHAMP magnetic vector data. Seminar at the Department of Geophysics, Charles University in Prague, May 3, 2004.
80. Martinec, Z.: Linearized rotational response of a 3-D viscoelastic Earth induced by glacial isostatic adjustment. Seminar at Geodetic Institute, Stuttgart University, June 17, 2004.
81. Fleming, K., Martinec, Z., Wolf, D., Sasgen, I.: Detectability of geoid displacements arising from changes in global ice volumes by the GRACE gravity-space mission. Joint CHAMP/GRACE Science Meeting, GFZ Potsdam, July 7, 2004 (poster).
82. Sasgen, I., Hagedoorn, J., Klemann, V., Martinec, Z., Wolf, D.: Temporal variations of the geoid and vertical crustal motion due to present and past glacial changes in Antarctica. XXVIII SCAR & COMNAP XVI Meeting, Bremen, July 27, 2004 (poster).
83. Martinec, Z., Fleming, K., Sasgen, I.: Geoid displacement due to changes in global ice volumes: detectability by the GRACE gravity-space mission. GGSM-2004 Meeting, Porto, Portugal, August 30-September 3, 2004 (poster).
84. Hagedoorn, J., Martinec, Z., *Wolf, D.*, Klemann, V.: Glacial isostatic adjustment and recent sea-level change: the influence of Pleistocene ice-sheet evolution on tide-gauge measurements. 9th Geodetic Week, Stuttgart, October 12–15, 2004 (poster).
85. *Wolf, D.*, Martinec, Z., Fleming, K., Sasgen, I.: Detectability of global ice-volume changes by the GRACE gravity-space mission. 9th Geodetic Week, Stuttgart, October 12–15, 2004 (poster).
86. *Velínský, J.*, Martinec, Z. and Everett, M.E.: Electromagnetic induction: Lateral variations in mantle electrical conductivity inferred from CHAMP and Oersted magnetic vector data. 17th EM Induction Workshop, Hyderabad, October 18-23, 2004.
87. Martinec, Z.: Linearized rotational response of a 3-D viscoelastic Earth induced by glacial isostatic adjustment. Seminar at the Department of Geology and Geophysics, Texas A&M University, November 8, 2004.
88. *Fleming, K.*, Martinec, Z.: Sea-level and geoid changes around Greenland. AGU 2004 Fall Meeting, December 13-17, 2004, San Francisco.

2005

89. Martinec, Z.: The significance of MacCullagh’s formulae in the theory of the Earth’s rotation. International colloquium on the occasion of the retirement of Prof. Erik W. Grafarend, Stuttgart University, February 18, 2005.
90. *Martinec, Z.*, Hagedoorn, J.: Linearised rotational response of a 3-D viscoelastic earth induced by glacial isostatic adjustment: inertia-tensor perturbations. Workshop of SSG 4.189, Lanzarote, Spain, March 1-4, 2005.
91. Martinec, Z.: Viscoelastic response of eccentrically-nested spheres to surface toroidal traction. Workshop of SSG 4.189, Lanzarote, Spain, March 1-4, 2005.

92. Martinec, Z.: Viscoelastic response of eccentrically-nested spheres to surface toroidal traction. EGU General Assembly, Vienna, Austria, April 24-29, 2005 (poster).
93. *Sasgen, I., Martinec, Z., Wolf, D.:* Geoid-height change and vertical crustal motion due to present and past ice-mass variations in Antarctica. EGU General Assembly, Vienna, Austria, April 24-29, 2005 (poster).
94. Martinec, Z.: Global-scale electromagnetic induction from satellite observations. Department of Earth Sciences, Uppsala University, June 10, 2005.
95. *Velínský, J., Everett, M.E., Martinec, Z.:* Geomagnetic induction: Time-domain modeling and inversion of CHAMP data in terms of 1-D (and 2.5-D?) conductivity models. Seminar at Göttingen University, June 21, 2005.
96. *Martinec, Z., Fleming, K., Hagedoorn, J., Klemann, V., Sasgen, I., Tosi, N., Wolf, D.:* Progress Report of the Section 1.3 Modelling Group at GFZ. Internal Seminar, GFZ Potsdam, June 24, 2005.
97. *Velínský, J., Everett, M.E., Martinec, Z.:* Electrical conductivity in the Earth's mantle inferred from CHAMP satellite measurements. 10th IAGA scientific assembly, Toulouse, July 27, 2005.
98. Hagedoorn, J., Wolf, D., Martinec, Z.: Glacial-isostatic adjustment and present-day sea-level change: the impact of Pleistocene ice-sheet evolution on tide-gauge measurements. Joint Assembly of IAG, IAPSO and IABO-Dynamic Planet 2005, Cairns, Australia, August 23, 2005 (poster).
99. *Fleming, K., Martinec, Z.:* Low-degree geopotential changes due to past and present-day ice load changes: Comparisons with GRACE observations. 9th International Workshop on Numerical Modelling of Mantle Convection and Lithospheric Dynamics, Erice, Sicily, Italy, September 9-13, 2005 (poster).
100. *Tosi, N., Martinec, Z.:* Spectral-finite element approach to present-time mantle convection: Green's functions for two-dimensional viscosity structure. 9th International Workshop on Numerical Modelling of Mantle Convection and Lithospheric Dynamics, Erice, Sicily, Italy, September 9-13, 2005 (poster).
101. *Martinec, Z., Hagedoorn, J.:* A linearized theory of a 3-D deformable earth's rotational response to long-term surface and internal-mass redistributions. Geodetic Week, Düsseldorf, October 4-6, 2005.
102. *Sasgen, I., Martinec, Z., Fleming, K.:* Wiener optimal filtering of GRACE data. Geodetic Week, Düsseldorf, October 4-6, 2005.
103. *Sasgen, I., Martinec, Z., Fleming, K.:* Application of the Wiener optimal filter to GRACE gravity solutions. GRACE Science Team Meeting, Austin, Texas, October 13-14, 2005.
104. *Martinec, Z., Klemann, V., Wolf, D.:* Three-dimensional viscoelastic earth model for surface-mass transport. Colloquium on German Priority Research Program No. 1257, GFZ Potsdam, November 28-29, 2005.
105. *Martinec, Z., Fleming, K., Sasgen, I.:* Long-term ice-mass variations in areas of major glaciation from GRACE, satellite altimetry, GPS, tide gauges and ocean circulation models. Colloquium on German Priority Research Program No. 1257, GFZ Potsdam, November 28-29, 2005.

106. *Velínský, J.*, Martinec, Z.: Time-domain approach to geomagnetic induction based on the combined use of surface and satellite data. AGU 2005 Fall Meeting, December 5-9, 2005, San Francisco (poster).
107. *Sasgen, I.*, Martinec, Z., Wolf, D.: Seasonal mass variations in Antarctica from GRACE. Ph.D. Day, GFZ Potsdam, December 20, 2005.

2006

108. Martinec, Z.: The Earth's gravity field from geodetic and geophysical perspectives. Series of lectures on 'Gravity Field and Gravimetry', GFZ Potsdam, January 18, 2006.
109. Martinec, Z.: Modelling of global geophysical processes in Section 1.5. Modelling Meeting Section 1.5., GFZ Potsdam, March 28, 2006.
110. Martinec, Z., *Sasgen, I.*, Fleming, K.: Post-processing of GRACE gravity solutions. Modelling Meeting Section 1.5., GFZ Potsdam, March 28, 2006.
111. *Velínský, J.*, Martinec, Z.: Electrical conductivity in the Earth's mantle: combined inversion of surface and CHAMP observations. EGU General Assembly, Vienna, Austria, April 2-7, 2006.
112. *Klemann, V.*, Ivins, E.R., Martinec, Z., Wolf, D.: The influence of a subducting slab on the uplift rate induced by glacial changes of Patagonia. EGU General Assembly, Vienna, Austria, April 2-7, 2006.
113. Fleming, K., *Martinec, Z.*, Sasgen, I.: The mass balance of the Greenland Ice Sheet: comparing results from GRACE and predictions based on altimetry observations. EGU General Assembly, Vienna, Austria, April 2-7, 2006 (poster).
114. *Sasgen, I.*, Martinec, Z., Fleming, K.: Ice-mass changes in Antarctica from GRACE. EGU General Assembly, Vienna, Austria, April 2-7, 2006 (poster).
115. *Tosi, N.*, Martinec, Z.: Spherical-harmonic finite-element approach to present-day mantle convection: preliminary results for a three-dimensional viscosity model. EGU General Assembly, Vienna, Austria, April 2-7, 2006 (poster).
116. *Velínský, J.*, Martinec, Z.: Electrical conductivity in the Earth's mantle: combined inversion of surface and CHAMP observations. 1st SWARM International Science Meeting, Nantes, France, May 3-5, 2006 (poster).
117. *Martinec, Z.*, Hagedoorn, J.: Sea-level change due to the coupling between variations in the Earth's rotation and glacial-isostatic adjustment. WRCP Workshop on Understanding Sea-Level Rise and Variability, Paris, France, June 6-9, 2006 (poster).
118. *Fleming, K.*, Klemann, V., Martinec, Z. Lithospheric and asthenospheric stresses induced by changes in ice loading and accompanying effect on volcanism in Iceland. International Symposium on Earth and Planetary Ice-Volcano Interactions, Reykjavik, Iceland, June 19-23, 2006.
119. Martinec, Z. Understanding the temporal changes of the gravity field, surface deformation, sea level, rotation and magnetic field. Klausur, Dept.1, Sommerfeld, July 14, 2006.
120. Martinec, Z., Klemann, V., *Wolf, D.* Development and validation of a three-dimensional viscoelastic lithosphere and mantle model for reducing GRACE-gravity data (VILMA). Geotechnologies Status Seminar, 'Observation of System Earth from Space', Bonn, September 19, 2006.

121. *Klemann, V., Ivins, E., Martinec, Z., Wolf, D.* Einfluss einer subduzierenden Plate auf die durch glaziale Änderungen in Patagonien verursachte Hebungsbewegung. Geodynamik Workshop, Katlenburg-Lindau, September 28, 2006.
122. *Martinec, Z., Hagedoorn, J.* Refined prediction of GIA-induced variations in the Earth's rotation. Geodetic Week, Munich, October 10-12, 2006.
123. *Fleming, K., Martinec, Z., Sasgen, I.* Temporal changes in the geoid inferred from GRACE gravity-field solutions: Assessment and comparison between releases. Geodetic Week, Munich, October 10-12, 2006 (poster).
124. *Klemann, V., Ivins, E., Martinec, Z., Wolf, D.* The influence of a subducting slab on the prediction of present-day lithospheric and asthenospheric motions induced by glacial changes in Patagonia. Geodetic Week, Munich, October 10-12, 2006.
125. *Martinec, Z.* Global-scale dynamic modelling of the Earth from geophysical and geodetic perspectives. Department of Geophysics, Free University of Berlin, November 27, 2006.
126. *Fleming, K., Sasgen, I., Martinec, Z.* Statistical analyzes and comparisons of inferred temporal trends in the GRACE gravity field solutions. GRACE Science Team Meeting, San Francisco, December 8-9, 2006.
127. *Sasgen, I., Martinec, Z., Fleming, K.* Wiener optimal combination and evaluation of GRACE gravity fields over Antarctica. GRACE Science Team Meeting, San Francisco, December 8-9, 2006.
128. *Sasgen, I., Martinec, Z., Fleming, K.* Regional ice-mass changes and glacial-isostatic adjustment in Antarctica from GRACE. GRACE Science Team Meeting, San Francisco, December 8-9, 2006.
129. *Martinec, Z., Hagedoorn, J.* Refined prediction of GIA-induced variations in the Earth's rotation. AGU 2006 Fall Meeting, San Francisco, December 11-15, 2006.
130. *Klemann, V., Ivins, E., Martinec, Z., Wolf, D.* The influence of a subducting slab on the gravitational-viscoelastic earth response induced by glacial changes in Patagonia. AGU 2006 Fall Meeting, San Francisco, December 11-15, 2006.
131. *Sasgen, I., Martinec, Z., Fleming, K.* Ice-mass loss in West Antarctica from GRACE. AGU 2006 Fall Meeting, San Francisco, December 11-15, 2006, (poster).
132. *Fleming, K., Martinec, Z., Sasgen, I.* Geoid change over Australia: Analysis of the GRACE gravity-field solutions. AGU 2006 Fall Meeting, San Francisco, December 11-15, 2006, (poster).
133. *Velínský, J., Martinec, Z.* Electrical Conductivity in the Earth's Mantle: Combined Inversion of Surface, CHAMP and Ørsted Observations. AGU 2006 Fall Meeting, San Francisco, December 11-15, 2006,
134. *Tosi, N., Martinec, Z.* A spectral finite element Stokes solver for modeling of present-day mantle convection. PhD-Day, GeoForschungsZentrum Potsdam, December 19, 2006.

2007

135. *Martinec, Z.* Statistical analysis of GRACE data. Seminar at the Department of Geophysics, Charles University in Prague, January 8, 2007.
136. *Martinec, Z.* The Earth's gravity field from geodetic and geophysical perspectives. TU Delft University, Delft, March 30, 2007.

137. *Martinec, Z.*, Hagedoorn, J. Refined prediction of GIA-induced variations in the Earth's rotation. EGU General Assembly, Vienna, Austria, April 16-20, 2007 (poster).
138. *Fleming, K.*, Sasgen, I., Martinec, Z. Comparison of filtering/de-stripping methods for GRACE gravity-field solutions. EGU General Assembly, Vienna, Austria, April 16-20, 2007 (poster).
139. *Souček, O.*, Martinec, Z. Iterative algorithm for improvement of the shallow ice approximation solution of a 3-D ice flow. EGU General Assembly, Vienna, Austria, April 16-20, 2007 (poster).
140. *Sasgen, I.*, Martinec, Z., Fleming, K. Present-day regional mass changes in Antarctica from GRACE. EGU General Assembly, Vienna, Austria, April 16-20, 2007.
141. *Balasis, G.*, Velímský, J., Martinec, Z., Egbert, G. D., Daglis, I. A., Eftaxias, K. Global electromagnetic induction: combined inversion of satellite and observatory magnetic data using non-zonal source models. EGU General Assembly, Vienna, Austria, April 16-20, 2007 (poster).
142. Martinec, Z. Rotational deformation and mantle viscosity. Seminar at the Department of Geophysics, Charles University in Prague, April 23, 2007.
143. *Martinec, Z.*, Hagedoorn, J. Rotational deformation and lower-mantle viscosity. Department 1 workshop, GFZ Potsdam, May 7-8, 2007.
144. Fleming, K., Sasgen, I., Martinec, Z. Comparison of filtering/de-stripping methods for GRACE gravity-field solutions. Department 1 workshop, GFZ Potsdam, May 7-8, 2007, (poster).
145. Klemann, V., Martinec, Z., Wolf, D. Contribution from glacial-isostatic adjustment to geological and geodetic observations using a 3-D viscoelastic earth model. Department 1 workshop, GFZ Potsdam, May 7-8, 2007, (poster).
146. Martinec, Z., Wolf, D.: Inverting the Fennoscandian relaxation-time spectrum in terms of a 2D viscosity structure with a cratonic lithosphere. Department 1 workshop, GFZ Potsdam, May 7-8, 2007, (poster).
147. Tosi, N., Martinec, Z. Semi-analytical solution of the Stokes problem in two eccentrically nested spheres. Department 1 workshop, GFZ Potsdam, May 7-8, 2007, (poster).
148. *Tanaka, Y.*, Klemann, V., Martinec, Z. Effect of subducting plate on postseismic deformation in a viscoelastic self-gravitating spherical earth. IUGG XXIV 2007, General Assembly, Perugia, Italy, July 10, 2007 (poster).
149. *Velímský, J.*, Martinec, Z. Electrical conductivity in the Earth's mantle: Combined inversion of surface, CHAMP and Ørsted observations. IUGG XXIV 2007, General Assembly, Perugia, Italy, July 10, 2007.
150. *Martinec, Z.*, Hagedoorn, J. Refined prediction of GIA-induced variations in the Earth's rotation. 10th Inter. Workshop on Modeling of Mantle Convection and Lithospheric Dynamics, Carry-le-Rouet, France, September 2-7, 2007 (poster).
151. *Tosi, N.*, Martinec, Z., Čadek, O. Low degree geoid signature of short-wavelength models of subduction. 10th Inter. Workshop on Modeling of Mantle Convection and Lithospheric Dynamics, Carry-le-Rouet, France, September 2-7, 2007 (poster).
152. *Klemann, V.*, Martinec, Z. Contribution of glacial-isostatic adjustment to tectonic-plate motion. 10th Inter. Workshop on Modeling of Mantle Convection and Lithospheric Dynamics, Carry-le-Rouet, France, September 2-7, 2007 (poster).

153. *Klemann, V., Martinec, Z.* Influence of ongoing glacial-isostatic adjustment to present-day plate motion. Geodetic Week, Leipzig, September 25-27, 2007.
154. *Klemann, V., Martinec, Z.* Influence of ongoing glacial-isostatic adjustment to geological and geodetic observables using a 3-D viscoelastic earth model. Geodetic Week, Leipzig, September 25-27, 2007 (poster).
155. *Sasgen, I., Martinec, Z., Fleming, K.* Regional ice-mass changes and glacial-isostatic adjustment in Antarctica from GRACE. Joint GSTM/SPP1257 Symposium, GFZ Potsdam, October 15-17, 2007.
156. *Tanaka, Y., Klemann, V., Fleming, K., Martinec, Z.* An estimate of post-seismic gravity change caused by the 1960 Chile earthquake and comparison with GRACE gravity fields. Joint GSTM/SPP1257 Symposium, GFZ Potsdam, October 15-17, 2007.
157. *Klemann, V., Martinec, Z.* Contribution of glacial-isostatic adjustment to geological and geodetic observables using a 3-D viscoelastic earth model. Joint GSTM/SPP1257 Symposium, GFZ Potsdam, October 15-17, 2007 (poster).
158. *Tanaka, Y., Klemann, V., Fleming, K., Martinec, Z.* Spectral finite-element approach to post-seismic deformation in a viscoelastic self-gravitating spherical earth. Scientific Seminar, GFZ Potsdam, October 24, 2007.
159. *Martinec, Z.* Analysis and interpretation of GRACE gravity-field models. National Observatory of Athens, November 28, 2007.
160. *Velínský, J., Martinec, Z., Souček, O.* Global EM induction in the Earth: Inverse time-domain modelling based on the adjoint approach. ESA SWARM Mantle Conductivity WM1, ETH Zürich, December 19, 2007.

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161. *Klemann, V., Martinec, Z., Thomas, M., Wolf, D., Kaban, M.* Our ideas and visions for DynaQlim. First DynaQlim Meeting, Copenhagen, Denmark, February 5, 2008.
162. *Velínský, J., Martinec, Z., Souček, O.* Global EM induction in the Earth: Inverse time-domain modelling based on the adjoint approach. ESA SWARM Mantle Conductivity Midterm Meeting, ESTEC, Noordwijk, Netherlands, April 3-4, 2008.
163. *Balasis, G., Velínský, J., Martinec, Z., Egbert, G.D., Daglis, I.A., Eftaxias, K.* Advances in external source model assumptions for satellite induction studies. EGU General Assembly, Vienna, Austria, April 13-18, 2008 (poster).
164. *Klemann, V., Martinec, Z.* Ongoing glacial-isostatic adjustment and present-day motion of tectonic plates. EGU General Assembly, Vienna, Austria, April 13-18, 2008.
165. *Sasgen, I., Martinec, Z., Bamber, J., Fleming, K.* Combined InSAR and GRACE estimate of West Antarctic mass changes. EGU General Assembly, Vienna, Austria, April 13-18, 2008.
166. *Souček, O., Martinec, Z.* SIA-I algorithm - testing the performance on real data. EGU General Assembly, Vienna, Austria, April 13-18, 2008 (poster).
167. *Velínský, J., Martinec, Z., Souček, O.* Global EM induction in the Earth: Inverse time-domain modelling based on the adjoint approach. EGU General Assembly, Vienna, Austria, April 13-18, 2008 (solicited).
168. *Martinec, Z.* The electromagnetic induction modelling for CHAMP satellite magnetic data. Internal Seminar, GFZ Potsdam, May 15, 2008.

169. Martinec, Z., Sasgen, I., Fleming, K. Present-day West Antarctic ice-mass change estimate by the constrained inversion of GRACE and InSAR data. IAG Int. Symposium on Gravity, Geoid and Earth Observation (GGEO), Chania, Crete, Greece, June 26, 2008 (poster).
170. *Martinec, Z., Velínský, J.* The adjoint method of electromagnetic induction for CHAMP magnetic data. 2nd progress meeting of 'Mapping 3-D mantle conductivity from Swarm constellation data', National Space Institute, Technical University of Denmark, Copenhagen, Denmark, August 28, 2008.
171. Klemann, V., *Rau, D., Martinec, Z., Ivins, E.R., Wolf, D.* Glacial isostasy and plate motion. 13. Geodatische Woche/Intergeo, Bremen, October 1, 2008.
172. *Martinec, Z., Klemann, V., Sasgen, I.* Global EM induction in the Earth and glacial-isostatic adjustment: Inverse time-domain modeling based on the adjoint method. 13. Geodatische Woche/Intergeo, Bremen, October 1, 2008.
173. *Klemann, V., Rau, D., Martinec, Z., Ivins, E.R., Wolf, D.* Glacial isostasy and plate motion. Geodynamik Workshop, Arbeitskreis Geodasie/Geophysik, Neustadt/Weinstrae, October 2, 2008.
174. Klemann, V., Martinec, Z., Wolf, D. Development and validation of a 3D viscoelastic lithosphere and mantle model for reducing GRACE gravity data (VILMA). SPP1257-Kolloquium, Munchen, October 6-8, 2008 (poster).
175. Klemann, V., Martinec, Z., Wolf, D. Application of a 3D viscoelastic lithosphere and mantle model for reducing GRACE gravity data (VILMA 2nd phase). SPP1257-Kolloquium, Munchen, October 6-8, 2008 (poster).
176. *Martinec, Z., Velínský, J.* The adjoint method of electromagnetic induction for CHAMP magnetic data. AGU 2008 Fall Meeting, San Francisco, December 15-19, 2008.
177. Sasgen, I., *Martinec, Z., Bamber, J.* Present-day West Antarctic ice-mass change estimate by the constrained inversion of GRACE and InSAR data. AGU 2008 Fall Meeting, San Francisco, December 15-19, 2008, (poster).
178. *Tosi, N., Čadek, O., Martinec, Z., Yuen, D.* Can the longwavelength geoid be used to map postperovskite in the D'' layer? AGU 2008 Fall Meeting, San Francisco, December 15-19, 2008, (poster).
179. *Tanaka, Y., Klemann, V., Fleming, K., Martinec, Z.* Post-seismic gravity variation caused by a great earthquake in subduction zone -spectral finite-element approach to consider 3-D viscosity structure. AGU 2008 Fall Meeting, San Francisco, December 15-19, 2008, (poster).
180. Klemann, V., Rau, D., *Martinec, Z., Ivins, E.R., Wolf, D.* The Influence of laterally varying mantle viscosity on glacially induced surface motion and mass redistribution. AGU 2008 Fall Meeting, San Francisco, December 15-19, 2008, (poster).
181. Velínský, J., *Martinec, Z.* Inverse 3-D time-domain modelling of global EM induction in the Earth: A sensitivity study. AGU 2008 Fall Meeting, San Francisco, December 15-19, 2008, (poster).

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182. Klemann, V., Rau, D., Martinec, Z., Wolf, D. Influence of the structural dichotomy of Antarctic lithosphere on regional glacial-isostatic adjustment. IAG ICCTSG7 Workshop, Lanzarote, February 22-27, 2009 (poster).

183. Martinec, Z. The Earth's gravity field in short- and long-term perspectives. DIAS Dublin, March 2, 2009.
184. *Klemann, V., Martinec, Z., Ivins, E.R., Wolf, D.* Lateral viscosity variations in the mantle and their implications for GIA induced motions EGU General Assembly, Vienna, Austria, April 19-24, 2009.
185. *Klemann, V., Drau, D., Martinec, Z., Wolf, D.* Influence of the structural dichotomy of Antarctic lithosphere on regional glacial-isostatic adjustment. EGU General Assembly, Vienna, Austria, April 19-24, 2009 (poster).
186. *Klemann, Martinec, Z.* Influence of glacial isostatic adjustment on the center-of-figure motion. EGU General Assembly, Vienna, Austria, April 19-24, 2009 (poster).
187. *Souček, O., Martinec, Z.* Numerical ice-sheet model based on the SIA-I algorithm. EGU General Assembly, Vienna, Austria, April 19-24, 2009 (poster).
188. *Sasgen, I., Martinec, Z.* Regional ice-mass redistribution in Antarctica from GRACE. EGU General Assembly, Vienna, Austria, April 19-24, 2009.
189. Martinec, Z. Statements of research interests. DIAS Dublin, May 18, 2009.
190. *Martinec, Z., Hagedoorn, J.* Refined prediction of GIA-induced variations in the Earths rotation. Understanding Glacial Isostatic Adjustment, a joint DynaQlim/GGOS workshop, Espoo, Finland, June 23-26, 2009
191. *Martinec, Z., Velínský, J.* The adjoint sensitivity method of global electromagnetic induction for CHAMP magnetic data. The 11th IAGA Scientific Assembly, Sopron, August 26, 2009.
192. *Klemann, V., Martinec, Z.* Contribution of glacial-isostatic adjustment to the geocenter motion. 14. Geodatische Woche/Intergeo, Karlsruhe, September 23, 2009 (poster).
193. *Klemann, V., Martinec, Z., Wolf, D.* The influence of lateral viscosity variations in the mantle on GIA induced surface motions. 14. Geodatische Woche/Intergeo, Karlsruhe, September 23, 2009 (poster).

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194. Martinec, Z. Statistical filtering of GRACE gravity data. COST ES0701 WG3: Noise characteristics of station coordinate time series/velocities, Nottingham University, March 18-19, 2010.
195. *Sasgen, I., Hagedoorn, J., Klemann, V., Martinec, Z.* Antarctic and Greenlandic ice-sheet contributions to present-day sea-level change from GRACE. ICE2SEA: First Open Forum, Krakow, Poland, March 18, 2010.
196. *Sasgen, I., Dobsław, H., Martinec, Z., Thomas, M.* Antarctic snow accumulation variability related to ENSO from GRACE. EGU General Assembly, Vienna, Austria, May 2-7, 2010.
197. Martinec, Z., Bamber, J., *Sasgen, I., van den Broeke, M.* Regional ice-mass variability in Greenland from GRACE, InSAR and surface-mass balance modelling. EGU General Assembly, Vienna, Austria, May 2-7, 2010.
198. *Rogozhina, I., Calov, R., Martinec, Z., Hagedoorn, J., Thomas, M.* Memory of the Greenland Ice Sheet. EGU General Assembly, Vienna, Austria, May 2-7, 2010.
199. *Sasgen, I., Klemann, V., Martinec, Z.* Glacial-isostatic adjustment in North America inferred from GRACE. EGU General Assembly, Vienna, Austria, May 2-7, 2010 (poster).

200. Klemann, V., Martinec, Z. Implementation of non-linear rheology in spectral finite-element code. EGU General Assembly, Vienna, Austria, May 2-7, 2010 (poster).
201. Tanaka, Y., Klemann, V., Martinec, Z. Spectral finite-element approach to three-dimensional viscoelastic relaxation in a spherical earth - extension for material compressibility. EGU General Assembly, Vienna, Austria, May 2-7, 2010 (poster).
202. Souček, O., Martinec, Z. The role of longitudinal stresses in the ISMIP-HEINO experiment. EGU General Assembly, Vienna, Austria, May 2-7, 2010 (poster).
203. Spada, G., COST Action ES0701 WG4 Team. A new benchmark study for post-glacial rebound codes. EGU General Assembly, Vienna, Austria, May 2-7, 2010 (poster).
204. Martinec, Z. The Earth's gravity field from geodetic and geophysical perspectives. Dublin Institute of Technology, Department of Spatial Information Sciences, Dublin, Ireland, September 28, 2010.
205. *Sasgen, I.*, Dobsław, H., Martinec, Z., Thomas, M. Antarctic accumulation variability from GRACE and its connection to the El Niño Southern Oscillation. GRACE Science Team Meeting, Potsdam, Germany, November 11-12, 2010.

2011

206. Souček, O., *Martinec, Z.* An attempt to simulate Heinrich's events. Meeting before REKLIM workshop, AWI Bremerhaven, March 28, 2011.
207. Rogozhina, I., Souček, O., Martinec, Z., *Hagedoorn, J.*, Fleming, K., Thomas, M. Different present-day geothermal heat flux scenarios for the case of the Greenland Ice Sheet. EGU General Assembly, Vienna, Austria, April 3-8, 2011 (poster).
208. *Sasgen, I.*, Martinec, Z., Wouters, B., van den Broeke, M., Bamber, J., Sandberg-Sørensen, L. Greenland ice-mass balance from satellite gravimetry: re-assessing the influence of glacial-isostatic adjustment. EGU General Assembly, Vienna, Austria, April 3-8, 2011 (poster).
209. *Klemann, V.*, Hagedoorn, J., Martinec, Z. Refinement of palaeotopography in modelling of glacial isostatic adjustment. EGU General Assembly, Vienna, Austria, April 3-8, 2011 (poster).
210. *Dostal, J.*, Martinec, Z., Thomas, M. Simulation of the ocean induced poloidal magnetic field variations by considering the conductivity contrast between ocean and continent. EGU General Assembly, Vienna, Austria, April 3-8, 2011.
211. *Horwath, M.*, Sasgen, I., Legrésy, B., Rémy, F., Blarel, F., Lemoine, J.-M., Dobsław, H., Martinec, Z., Thomas, M. Antarctic ice mass balance from satellite geodesy: understanding the signal beyond linear trends. EGU General Assembly, Vienna, Austria, April 3-8, 2011
212. *Souček, O.*, Martinec, Z., Velínský, J. Quasi-static electromagnetic induction in spherical Earth: Vector potential formulation. EGU General Assembly, Vienna, Austria, April 3-8, 2011 (poster).
213. Martinec, Z. The adjoint sensitivity method of global electromagnetic induction for CHAMP magnetic data. Annual Meeting of the German Mathematical Society, Cologne, Germany, September 18-23, 2011.

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214. Martinec, Z. Recent satellite missions on the Earth's gravity and magnetic fields. Institute of Geophysics & Tectonics, School of Earth & Environment, The University of Leeds, Leeds, February 14, 2012.

215. Spada, G., Barletta, V., Klemann, V., van der Wal, W., James, T.S., Simon, K., Riva, R.E.M., Martinec, Z., Gasperini, P., Lund, B., Wolf, D., Vermeersen, L.L.A., King, M.A. Benchmarking and testing the Sea Level Equation. The COST ES0701 experience. SLALOM 2012, Athens, March 19-22, 2012.
216. Sasgen I., Van Den Broeke, M., Bamber, J.L., Rignot, E., Sandberg Srensen, L., Wouters, B., Martinec, Z., Velicogna, I., Simonsen, S.B. Recent changes of the Greenland ice sheet: insights from GRACE, ICESat and InSAR/regional climate modeling. SLALOM 2012, Athens, March 19-22, 2012.
217. Konrad, H., Sasgen, I., Martinec, Z., Ivins, E. Re-assessing Antarctic glacial isostatic-adjustment with GPS and GRACE observations. SLALOM 2012, Athens, March 19-22, 2012.
218. Spada G., *Barletta, V.R.*, Klemann, V., van der Wal, W., James, T.S., Simon, K., Riva, R.E.M., Martinec, Z., Gasperini, P., Lund, B., Wolf, D., Vermeersen, L.L.A., King, M.A. Benchmarking and testing the Sea Level Equation. EGU General Assembly, Vienna, Austria, April 22-27, 2012.
219. *Klemann, V.*, Martinec, Z. Solid-Earth processes and secular geocenter motion. EGU General Assembly, Vienna, Austria, April 22-27, 2012.
220. Sasgen, I., Bamber, J.L., van den Broeke, M., Sandberg Srensen, L., Wouters, B., Martinec, Z., Horwath, M., Konrad, H., Rignot, E., Velicogna, I. On regional ice sheet mass balance from GRACE, the mass budget method, and ICESat. EGU General Assembly, Vienna, Austria, April 22-27, 2012.
221. *Rogozhina, I.*, Hagedoorn, J.M., Martinec, Z., Fleming, K., Souček, O., Greve, R., Thomas, M. The effects of the uncertainties in geothermal heat flux distribution on the present-day Greenland Ice Sheet. EGU General Assembly, Vienna, Austria, April 22-27, 2012.
222. Rogozhina, I., Hagedoorn, J.M., Martinec, Z., Fleming, K., Thomas, K. Applicability and limitations of large-scale ice-sheet modeling for constraining subglacial geothermal heat flux. EGU General Assembly, Vienna, Austria, April 22-27, 2012 (poster).
223. Konrad, H., Sasgen, I., Klemann, V., Ivins, E.R., Martinec, Z. Re-assessing the influence of glacial-isostatic adjustment on Antarctic ice-mass balance estimated from GRACE. EGU General Assembly, Vienna, Austria, April 22-27, 2012 (poster).
224. Novák, P., Baur, O., Martinec, Z., Sneeuw, N., Tsoulis, D., Vermeersen, B., van der Wal, W., Roth, M., Šebera, J., Valko, M., Hoeck, E. Towards a better understanding of the Earth's interior and geophysical exploration research "GOCE-GDC". EGU General Assembly, Vienna, Austria, April 22-27, 2012 (poster).
225. *Sasgen, I.*, Konrad, H., Ivins, E.R., van den Broeke, M.R., Bamber, J.L., Martinec, Z., Klemann, V. Regionally improved estimate of glacial-isostatic adjustment and its impact on Antarctic ice-mass trends from GRACE (project AGIA). Joint GSTM/SPP1257 Symposium, GFZ Potsdam, September 17-19, 2012.
226. *Klemann, V.*, Tesauro, M., Martinec, Z. Featuring lithosphere rheology in studies of glacial isostatic adjustment. Joint GSTM/SPP1257 Symposium, GFZ Potsdam, September 17-19, 2012, (poster).
227. Martinec, Z. Forward and adjoint methods of glacial isostatic adjustment with non-vanishing surface horizontal traction. Joint GSTM/SPP1257 Symposium, GFZ Potsdam, September 17-19, 2012 (poster).

228. Martinec, Z. Mass-density Greens functions for gradiometric data. GOCE Solid Earth workshop, University of Twente, Enschede, October 16-17, 2012.
229. Fullea J. et al. 3D Geophysical-petrological modelling of the lithosphere: how can GOCE data help us assessing the geothermal potential of Ireland. GOCE Solid Earth workshop, University of Twente, Enschede, October 16-17, 2012.
230. Hagedoorn, J., Martinec, Z. Adjoint sensitivity method for the downward continuation of the Earth's geomagnetic field through an electrically conducting mantle. AGU 2012 Fall Meeting, San Francisco, December 3-7, 2012, (poster).

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231. Martinec, Z. A refined model of sedimentary rock cover over the Congo basin from the interpretation of GOCE gradiometric data. EGU General Assembly, Vienna, Austria, April 7-12, 2013.
232. Martinec, Z., Sasgen, I. Weak formulation of the sensitivity equations for glacial isostatic adjustment. EGU General Assembly, Vienna, Austria, April 7-12, 2013 (poster).
233. Hagedoorn, J.M., Martinec, Z. Downward continuation of the Earth's geomagnetic field through an electrically conducting mantle: first application of the adjoint sensitivity method. EGU General Assembly, Vienna, Austria, April 7-12, 2013 (poster).
234. *Klemann, V.*, Tamisiea, M.E., Martinec, Z. The coastal effect in sea-level change. EGU General Assembly, Vienna, Austria, April 7-12, 2013.
235. Barletta, V.R. and the Benchmark Team: Fingerprinting sea-level variations in response to continental ice loss: a benchmark exercise. EGU General Assembly, Vienna, Austria, April 7-12, 2013 (poster).
236. Klemann, V., Martinec, Z. Lateral variations in lithosphere structure – Impact on GIA response. IAG symposium on 'Reconciling Observations and Models of Elastic and Viscoelastic Deformation due to Ice Mass Change', 30 May – 2 June 2013, Ilulissat, Greenland.
237. Konrad, H., Sasgen, I., Thoma, M., Klemann, V., Grosfeld, K., Martinec, Z. Ice sheet and ice shelf simulations with a fully coupled ice sheet – solid Earth model. IAG symposium on 'Reconciling Observations and Models of Elastic and Viscoelastic Deformation due to Ice Mass Change', 30 May – 2 June 2013, Ilulissat, Greenland.
238. Martinec Z., Vermeersen, B., van der Wal, W., Novak, P., Sebera, J., Baur, O., Tsoulis, D., Sneeuw, N., Haagmans, R. Interpreting the GOCE Gravitational Gradients over the Congo Basin. ESA Living Planet Symposium, Edinburgh, UK, 9-13 September 2013.
239. Novak, P., Sebera, J., Valko, M., Sprlak, M., Baur, O., Tsoulis, D., Martinec, Z., Sneeuw, N., van der Wal, W., Vermeersen, B., Haagmans, R. Towards a Better Understanding of the Earth's Interior and Geophysical Exploration Research. ESA Living Planet Symposium, Edinburgh, UK, 9-13 September 2013.
240. Sebera, J., Novak, P., Valko, M., Sprlak, M., Baur, O., Tsoulis, D., Martinec, Z., Sneeuw, N., Vermeersen, B., van der Wal, W., Bouman, J., Fuchs, M., Haagmans, R. High-Resolution Grids of Gravitational Gradients from GOCE. ESA Living Planet Symposium, Edinburgh, UK, 9-13 September 2013 (poster).

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- 241. Martinec, Z. The forward and adjoint sensitivity methods of glacial isostatic adjustment: Existence, uniqueness and time-differencing scheme. EGU General Assembly, Vienna, Austria, 27 April - 02 May 2014 (poster).
- 242. Šachl, L., Einšpigel, D., Martinec, Z. A benchmark study for two barotropic ocean model codes. EGU General Assembly, Vienna, Austria, 27 April - 02 May 2014 (poster).
- 243. *Konrad, H.*, Sasgen, I., Klemann, V., Thoma, M., Grosfeld, K., Martinec, Z. Sea-level and solid-Earth deformation feedbacks in ice sheet modelling. EGU General Assembly, Vienna, Austria, 27 April - 02 May 2014.
- 244. *Hagedoorn, J.*, Martinec, Z. Downward continuation of the Earth's geomagnetic field and separation of internal and external contribution from vector magnetic data: consistent application of the adjoint sensitivity method. EGU General Assembly, Vienna, Austria, 27 April - 02 May 2014.

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- 245. Martinec, Z., Hagedoorn, J. The rotational feedback on linear-momentum balance in glacial isostatic adjustment. EGU General Assembly, Vienna, Austria, 12 - 17 April, 2015i (poster).
- 246. Dostal, J., Martinec, Z., Thomas, M. Simulation of the global ocean-induced magnetic field for a spherically symmetric model of electrical conductivity. EGU General Assembly, Vienna, Austria, 12 - 17 April, 2015.
- 247. Šachl, L., Martinec, Z. Development of ocean model LSOMG. EGU General Assembly, Vienna, Austria, 12 - 17 April, 2015.
- 248. Einšpigel, D., Velímský, J., Martinec, Z., Šachl, L. Modelling of ocean induced magnetic signals in Swarm satellite data. AGU Fall Meeting, San Francisco, USA, 12 - 16 December, 2015.