

Δημοσιεύσεις πριν το 2010

Δημοσιεύσεις σε περιοδικά και πρακτικά συνεδρίων με κριτές

2009

- Barzaghi R, Maggi A, Tselfes N, Tsoulis D, Tziavos IN, Vergos GS (2009) Combination of Gravimetry, Altimetry and GOCE Data for Geoid Determination in the Mediterranean: Evaluation and Simulation. In: Sideris MG (ed) Observing our Changing Earth, International Association of Geodesy Symposia Vol. 133, Springer Berlin Heidelberg New York, pp. 195-202.
- Barzaghi R, Tselfes N, Tziavos IN, Vergos GS (2009) Geoid and High Resolution Sea Surface Topography Modelling in the Mediterranean from Gravimetry, Altimetry and GOCE Data: Evaluation by Simulation. *Journal of Geodesy*, 83(8):751-772. doi: 10.1007/s00190-008-0292-z.
- Kotzev VM, Pashova LG, Tziavos IN, Vergos GS, Grebenitcharsky RS (2009) Multi-Satellite Marine Geoid for the Black Sea. *Compt rend Acad bulg Sci* 62(5): 621-630.
- Mertikas SP, Ioannides RT, Frantzis X, Tripolitsiotis A, Partsinevelos P, Tziavos IN, Vergos GS, Hausleitner W (2009) Recent developments for the estimation of the altimeter bias for the Jason-1&2 satellites using the dedicated calibration site at Gavdos. Proc vol 7473 (74730C), Bostater CR, Mertikas SP, Neyt X, Velez-Reyes M (eds.), *Remote Sensing of the Ocean, Sea Ice and Large Water Regions 2009*, doi: 10.1117/12.830403.
- P. Spyridaki, I.D. Papadopoulou, V.N. Grigoriadis, I.N. Tziavos and P. Savvaidis, 2009: "Methodology for identification of emergency assembly areas and road network in cities using geographic information systems tools", *Proceedings of the 9th International Multidisciplinary Scientific GeoConference SGEM 2009, Bulgaria, 14-19 June 2009, Volume II*, pp 135 – 142.
- H. Denker, J.-P. Barriot, R. Barzaghi, D. Fairhead, R. Forsberg, J. Ihde, A. Kenyeres, U. Marti, M. Sarrailh, I.N. Tziavos, 2009. The development of the European gravimetric geoid model EGG07. In: Sideris M.G. (ed.) *Observing our Changing Earth, International Association of Geodesy Symposia Vol. 133*, Springer Berlin Heidelberg New York, pp. 177-185.
- S.P. Mertikas, R.T. Ioannides, X. Frantzis, A. Tripolitsiotis, P. Partsinevelos, I.N. Tziavos, G.S. Vergos, W. Hausleitner, 2009: Recent developments for the estimation of the altimeter bias for the Jason-1&2 satellites using the dedicated calibration site at Gavdos. Proc. vol. 7473 (74730C), Bostater CR, Mertikas SP, Neyt X, Velez-Reyes M (eds.), *Remote Sensing of the Ocean, Sea Ice and Large Water Regions 2009*, DOI: 10.1117/12.830403

2008

- V.N. Grigoriadis, I.D. Papadopoulou, P. Spyridaki, I. Doukas, I.N. Tziavos, P. Savvaidis, 2008. Presentation of a Web-based GIS system for the management of natural disasters. Presented at the "Studying, Modeling and Sense Making of Planet Earth" 2008 International Conference, June 1-6, Mytilene, Greece.
- Sansò F, Venuti G, Tziavos IN, Vergos GS, Grigoriadis VN (2008) Geoid and Sea Surface Topography from satellite and ground data in the Mediterranean region - A review and new proposals. *Bulletin of Geodesy and Geomatics* 67(3): 155-201.
- G.S. Vergos, I.N. Tziavos, P. Papageorgiou, V.N. Grigoriadis 2008. Validation of the SRTM and SRTM PLUS DTMs in northern Greece for geoid and gravity field modeling. Presented at the Gravity, Geoid and Earth Observation 2008 (GGEO2008) of the IAG, June 23-27, Chania, Greece.

Vergos GS, Tziavos IN (2008a) Monitoring System Earth with the Recent and Forthcoming Gravity-Field Dedicated Satellite Missions. Presented at the "Studying, Modeling and Sense Making of Planet Earth" 2008 International Conference, June 1-6, Mytilene, Greece

Vergos GS, Tziavos IN (2008b) Sea Level Variability in the Aegean Sea as a Tool for Climate Change Monitoring. Presented at the "Studying, Modeling and Sense Making of Planet Earth" 2008 International Conference, June 1-6, Mytilene, Greece

2007

I.D. Doukas, P. Savvaidis, I.N. Tziavos, V.N. Grigoriadis, I. Papadopoulou, I. Vavassis, 2007: The use of a web-based GIS for the management of databases related to natural disasters. *Geodesy and Cartography*, 56(1), 37-52.

G. Fotopoulos and I.N. Tziavos, 2007: On theory and practice: Pythagoras, Euclid, Archimedes and their influence on navigation. *Geomatica*, 61(4), 470-475.

Müller A, Bürki B, Limpach P, Kahle HG, Grigoriadis VN, Vergos GS, Tziavos IN (2006) Validation of marine geoid models in the North Aegean Sea using satellite altimetry, marine GPS data and astrogeodetic measurements. In: Forsberg R, Kiliçoğlu A (eds) 1st International Symposium of the International Gravity Field Service, Gravity Field of the Earth, General Command of Mapping, Special Issue 18, pp. 90-95.

Tocho C, Vergos GS, Sideris MG (2007) Evaluation of the SRTM 90m DTM over Argentina and its Implications to Gravity Field and Geoid Modelling. In: Forsberg R, Kiliçoğlu A (eds) 1st International Symposium of the International Gravity Field Service, Gravity Field of the Earth, General Command of Mapping, Special Issue 18, pp. 324-329.

Tocho C, Vergos GS, Sideris MG (2007b) Estudio preliminar de geoides marino en el océano atlántico Argentine. *Boletim de Ciências Geodésicas* 13(1): 3-21.

Vergos GS, Grigoriadis VN, Kalampoukas G, Tziavos IN (2007) Accuracy assessment of the SRTM 90m DTM over Greece and its implications to geoid modeling. In: Tregoning P, Rizos C (eds) *Dynamic Planet 2005 - Monitoring and Understanding a Dynamic Planet with Geodetic and Oceanographic Tools*, International Association of Geodesy Symposia, vol.130 Springer – Verlag Berlin Heidelberg, pp. 309-315.

Vergos GS, Grigoriadis V, Tziavos IN, Sideris MG (2007) Combination of multi-satellite altimetry data with CHAMP and GRACE EGMs for geoid and sea surface topography determination. In: Tregoning P, Rizos C (eds) *Dynamic Planet 2005 - Monitoring and Understanding a Dynamic Planet with Geodetic and Oceanographic Tools*, International Association of Geodesy Symposia, vol.130 Springer – Verlag Berlin Heidelberg, pp. 244-250.

Vergos GS, Tziavos IN (2007) Determination of the quasi-stationary sea surface topography from a common adjustment of a geodetic and an oceanographic model. In: Forsberg R, Kiliçoğlu A (eds) 1st International Symposium of the International Gravity Field Service, Gravity Field of the Earth, General Command of Mapping, Special Issue 18, pp. 235-241.

2006

Aretos V, Vergos GS, Vergos SG (2006) *Centaurea Messenicolasiana*. A local native species of the area around Lake N. Plastiras. Proceedings of the 12th Panhellenic Forestry Conference, Avtzis ND (ed), pp. 143-148.

- A. Müller, B. Bürki, P. Limpach, H.-G. Kahle, V.N. Grigoriadis, G.S. Vergos and I.N. Tziavos, 2006. Validation of marine geoid models in the North Aegean Sea using satellite altimetry, marine GPS data and astrogeodetic measurements. In: Forsberg R, Kiliçoğlu A (eds.) 1st International Symposium of the International Gravity Field Service, Gravity Field of the Earth, General Command of Mapping, Special Issue 18, pp. 90-95.
- Tocho C, Vergos GS, Sideris MG (2005) A new marine geoid model for Argentina combining altimetry, shipborne gravity data and CHAMP/GRACE-type EGMs. *Geodesy and Cartography* 54(4): 177-189.
- D. Tsoulis, V.N. Grigoriadis and I.N. Tziavos, 2006: Evaluation of the CRUST 2.0 global database for the Hellenic area in view of regional gravity field modelling. In: Forsberg R, Kiliçoğlu A (eds.) 1st International Symposium of the International Gravity Field Service, Gravity Field of the Earth, General Command of Mapping, Special Issue 18, pp. 348-353.
- Gy. Tóth, L. Földváry, I.N. Tziavos and J. Ádám, 2006: Upward/downward continuation of gravity gradients for precise geoid determination. *Acta Geod. Geoph. Hung.*, 41(1), 21-30.
- Tzanou EA, Vergos GS, Vergos SG (2005) Hydrology of the Northern Pindos Mountains (Greece): Emphasis on erosion problems caused by land management. Proceedings of the 12th Panhellenic Forestry Conference, Avtzi ND (ed), pp. 113-120.
- G.S. Vergos, I.N. Tziavos and M.G. Sideris, 2006: On the validation of CHAMP- and GRACE-type GGMs and the construction of a combined model. *Geodesy and Cartography*, 55(3), 115-131.
- Vergos GS, Tziavos IN, Sideris MG (2006) On the validation of CHAMP- and GRACE-type EGMs and the construction of a combined model. *Geodesy and Cartography* 55(3): 115-131.
- G.S. Vergos and I.N. Tziavos, 2006: Determination of the quasi-stationary sea surface topography from a common adjustment of a geodetic and an oceanographic model. In: Forsberg R, Kiliçoğlu A (eds.) 1st International Symposium of the International Gravity Field Service, Gravity Field of the Earth, General Command of Mapping, Special Issue 18, pp. 235-241.
- 2005
- Tocho C, Vergos GS, Sideris MG (2005) Optimal Marine Geoid Determination in the Atlantic Coastal Region Of Argentina. International Association of Geodesy Symposia, Vol. 128 F. Sansó (ed.), A Window on the Future of Geodesy, Springer – Verlag Berlin Heidelberg, pp. 380-385.
- Tziavos IN, Vergos GS, Kotzev V, Pashova L (2005) Mean sea level and sea surface topography studies in the Black Sea and the Aegean. International Association of Geodesy Symposia, Vol. 129, Jekeli C, Bastos L, Fernandes J (eds.), Gravity Geoid and Space Missions 2004, Springer – Verlag Berlin Heidelberg, pp. 254-259.
- P. Savvaidis, I.D. Doukas, I.N. Tziavos, A. Kiratzi, A. Savvaidis, A. Sotiriadis and S. Koutoupes, 2005: Use of web-based GIS for the assessment of damage due to natural or man-made disasters to the urban environment. Proceedings of the International Symposium “Modern technologies, Education and Professional Practice in Geodesy and Related Fields, pp. 495-504, FIG International Symposium, Sofia, 3 - 4 November, 2005.
- Vergos GS, Sideris MG (2005) Improvement in the Determination of the Marine Geoid by Estimating the Bathymetry from Altimetry and Depth Soundings. *Mar Geod* 28(1): 81-102 (doi: 10.1080/01490410590884593)
- Vergos GS, Tziavos IN, Andritsanos VD (2005) On the Determination of Marine Geoid Models by Least-Squares Collocation and Spectral Methods Using Heterogeneous Data. International Association of

Geodesy Symposia, Vol. 128 F. Sansó (ed.), A Window on the Future of Geodesy, Springer – Verlag Berlin Heidelberg, pp. 332-337.

Vergos GS, Tziavos IN, Andritsanos VD (2005) Gravity Data Base Generation and Geoid Model Estimation Using Heterogeneous Data. International Association of Geodesy Symposia, Vol. 129, Jekeli C, Bastos L, Fernandes J (eds.), Gravity Geoid and Space Missions 2004, Springer – Verlag Berlin Heidelberg, pp. 155-160.

Y. Xenidis, D. Angelides, I.N. Tziavos, C. Koutitas and P. Savvaidis, 2005: An integrated framework for sustainable coastal zones management in Greece. Invited paper in the conference "Energy, Environment, Ecosystems, Sustainable Development 2005", Athens, 12 - 14 July, 2005, *IASME Transactions*, Vol. 2, No. 5, pp. 813-822.

2004

G. Fotopoulos, I.N. Tziavos and M.G. Sideris, 2004: On the incorporation of sea surface topography in establishing vertical control. International Association of Geodesy Symposia, Vol. 129, Jekeli C, Bastos L, Fernandes J (eds.), Gravity Geoid and Space Missions 2004, Springer – Verlag Berlin Heidelberg, pp. 185 - 190.

H. Denker, J.-P. Barriot, R. Barzaghi, R. Forsberg, J. Ihde, A. Kenyeres, U. Marti and I.N. Tziavos, 2004: Status of the European Gravity and Geoid Project EGGP. International Association of Geodesy Symposia, Vol. 129, Jekeli C, Bastos L, Fernandes J (eds.), Gravity Geoid and Space Missions 2004, Springer – Verlag Berlin Heidelberg, pp. 125 - 130.

S.P. Mertikas, E.C. Pavlis, I.N. Tziavos, E. Koutroulis, K. Palamartchouk, Th. Papadopoulos and G.S. Vergos, 2004: Permanent facility for calibration/validation of satellite altimetry: GAVDOS. Invited paper, Proceedings of SPIE, The International Society for Optical Engineering, Remote Sensing of the Ocean and Sea Ice 2004, Vol. 5569, Bostater S.R. Jr., Santoreli R (eds), pp. 14-25.

G. Mintsis, S. Basbas, P. Papaioannou, C. Taxiltaris and I.N. Tziavos, 2004: Applications of GPS technology in the land transportation system. *European Journal of Operational Research*, 152, 399 - 409, 2004.

S. Koutoupes, G. Karantonis and A. Sotiriadis, A. Kiratzi, A. Valadaki, N. Theodoulidis, A. Savvaidis, I.N. Tziavos, P. Savvaidis and I. Doukas, 2004: Seisimpact-Thess: Design, development and application of an information system to assess the vulnerability to earthquake hazard of the built environment of the prefecture of Thessaloniki, (in Greek). *Bulletin of the Geological Society of Greece*. Vol. XXXVI (3), 1328-1336, 2004.

A. Kiratzi, A. Roumelioti, Ch. Benetatos, A. Savvaidis, A. Panou, I.N. Tziavos, P. Savvaidis, Th. Hatzigogos, S. Koutoupes and G. Karantonis, 2004: Seisimpact-Thess: A scenario earthquake affecting the built environment of the prefecture of Thessaloniki. *Bulletin of the Geological Society of Greece*. Vol. XXXVI (3), 1412-1421, 2004.

Mertikas S, Pavlis EC, Tziavos IN, Koutroulis E, Palamartchouk K, Papadopoulos T, Vergos GS (2004) Permanent facility for calibration/validation of satellite altimetry: GAVDOS. SPIE Proc vol 5569, Bostater CR, Santoleri Jr R (eds.), Remote Sensing of the Ocean and Sea Ice 2004, pp 14-25.

P. Savvaidis, I. Doukas, Th. Hatzigogos, I.N. Tziavos, A. Kiratzi, A. Roumelioti, A. Savvaidis, N. Theodoulidis, G. Drakatos, S. Koutoupes, G. Karantonis and A. Sotiriadis, 2004: Data base development and evaluation of earthquake damage reports under the Seis-Impact system. *Bulletin of the Geological Society of Greece*. Vol. XXXVI (3), 1509-1518, 2004.

I.N. Tziavos, G.S. Vergos, V. Kotzev and L. Pashova, 2004: Mean sea level and sea level variation studies in the Black Sea and the Aegean. International Association of Geodesy Symposia, Vol. 129, Jekeli C, Bastos L,

Fernandes J (eds.), Gravity Geoid and Space Missions 2004, Springer – Verlag Berlin Heidelberg, pp. 254 - 259.

I.N. Tziavos, V.D. Andritsanos, R. Forsberg and A. Olesen, 2004: Numerical investigation of downward continuation methods for airborne gravity data. International Association of Geodesy Symposia, Vol. 129, Jekeli C, Bastos L, Fernandes J (eds.), Gravity Geoid and Space Missions 2004, Springer – Verlag Berlin Heidelberg, pp. 119 - 124.

2003

J.L. Huang, M.G. Sideris, P. Vanicek, and I.N. Tziavos, 2003: Numerical investigation of downward continuation techniques for gravity anomalies. *Bollettino di Geodesia e Scienze Affini*, LXII, 1, 33 - 48, 2003.

C. Kotsakis and I.N. Tziavos, 2003: Parametric versus non-parametric methods for optimal weighted averaging of noisy data sets. International Association of Geodesy Symposia, F. Sansò (ed.), A window on the future of Geodesy, Sapporo, Japan, June 30-July 11, 2003, pp. 434-439, Springer, 2005.

Kotzev VM, Pashova LG, Grebenitcharsky RS, Tziavos IN, Vergos GS, Kiratzi A (2003) Satellite Altimetry Studies in the Black Sea and the Aegean. Proceedings of the 5th International Symposium "TECHNOMAT & INFOTEL", Scien Pub vol IV, Book 1, 277-285.

Gy. Tóth, J. Ádám, L. Földváry, I.N. Tziavos and H. Denker, 2003: Calibration/validation of GOCE data by terrestrial torsion balance observations. International Association of Geodesy Symposia, F. Sansò (ed.), A window on the future of Geodesy, Sapporo, Japan, June 30-July 11, 2003, pp. 214 -220, Springer, 2005.

Vergos GS, Grebenitcharsky RS and Sideris MG (2003) Sea Surface Topography and Geostrophic Flow Estimation from Multi-Satellite Altimetry and Shipborne Gravity Data Using Wavelet Decomposition. 3rd Meeting of the International Gravity and Geoid Commission (IGGC), Tziavos (ed.), Gravity and Geoid 2002 - GG2002, 314-319.

Vergos GS, Sideris MG (2003a) Estimation of High-Precision Marine Geoid Models Offshore Newfoundland, Eastern Canada. 3rd Meeting of the International Gravity and Geoid Commission (IGGC), Tziavos (ed.), Gravity and Geoid 2002 - GG2002, pp. 126-131.

Vergos GS, Sideris MG (2003b) Altimetry-Derived Marine Gravity Field Estimation Using Single- and Multi-Satellite Data. 3rd Meeting of the International Gravity and Geoid Commission (IGGC), Tziavos (ed.), Gravity and Geoid 2002 - GG2002, pp. 308-313.

2002

A.V. Olesen, I.N. Tziavos and R. Forsberg, 2002: New Airborne Gravity Data Around Crete - First Results from the CAATER Campaign, in: I.N. Tziavos (ed.) Gravity and Geoid 2002, 3rd meeting of the International Gravity and Geoid Commission, 326 - 331, Ziti editions, Thessaloniki, Greece, Aug. 26 - 30, 2002.

Grebenitcharsky RS, Vergos GS and Sideris MG (2002) Combination of gravity, altimetry and GPS/Levelling data for the numerical solution of altimetry-gravimetry boundary value problems. International Association of Geodesy Symposia, Vol. 125 J. Ádám and K.-P. Schwarz (eds.), Vistas for Geodesy in the New Millennium, Springer – Verlag Berlin Heidelberg, pp. 150-155.

D. Tsoulis and I.N. Tziavos, 2002: A comparison of some existing methods for the computation of terrain corrections in local gravity field modelling, in: I.N. Tziavos (ed.) Gravity and Geoid 2002, 3rd meeting of

the International Gravity and Geoid Commission, 156 - 160, Ziti editions, Thessaloniki, Greece, Aug. 26 - 30, 2002.

Vergos GS, Bayoud FA, Sideris MG and Tziavos IN (2002) High-Resolution Geoid Computation by Combining shipborne and Multi-Satellite altimetry Data in the Eastern Mediterranean Sea. IGeS Buletin Special Issue, Vol. 13, Proceedings of the EGS 2001 - G7 Session "Regional and Local Gravity Field Approximation", I.N. Tziavos and R. Barzaghi (eds.), pp. 85-99, March 25-30, Nice, France.

Vergos GS, Grebenitcharsky RS and Sideris MG (2002) Combination of Multi-Satellite Altimetry and Shipborne Gravity Data for Geoid Determination in a Coastal Region of Eastern Canada. IGeS Buletin Special Issue, Vol. 13, Proceedings of the EGS 2001 - G7 Session "Regional and Local Gravity Field Approximation", I.N. Tziavos and R. Barzaghi (eds.), pp. 100-115, March 25-30, Nice, France.

Vergos GS, Sideris MG (2002a) Improving the Estimation of Bottom Ocean Topography with Altimetry-Derived Gravity Data Using the Integrated Inverse Method. International Association of Geodesy Symposia, Vol. 125, J. Ádám and K.-P. Schwarz (eds.), Vistas for Geodesy in the New Millennium, Springer – Verlag Berlin Heidelberg, pp. 529-534.

Vergos GS, Sideris MG (2002b) Evaluation of Geoid Models and Validation of Geoid and GPS/Leveling Undulations in Canada. IGeS Bulletin, Vol. 12, pp. 3 - 17.

2001

Andritsanos VD, Vergos GS, Tziavos IN, Pavlis EC and Mertikas SP. (2001) A High Resolution Geoid for the Establishment of the Gavdos Multi-Satellite Calibration Site. International Association of Geodesy Symposia, Vol. 123 Sideris (ed.), Gravity Geoid and Geodynamics 2000, Springer - Verlag Berlin Heidelberg, pp. 347-354.

V.D. Andritsanos, M.G. Sideris and I.N. Tziavos, 2001: Quasi-stationary Sea Surface Topography estimation by the multiple input-output method". *Journal of Geodesy*, 75, 216 - 226.

G. Mintsis, S. Basbas, P. Papaioannou, C. Taxiltaris and I.N. Tziavos, 2001: Applications of GPS technology in the land transportation system. Proceedings, 13th National Conference, Hellenic operational Society "Transport and New Technology", pp. 53-64, Athens, 30 Nov. - 2 Dec., 2001.

Gy. Toth, Sz. Rosza, J. Adam and I.N. Tziavos, 2001: Gravity field modeling by torsion balance data – a case study in Hungary. International Association of Geodesy Symposia, J. Ádám and K.-P. Schwarz (eds.), Vistas for Geodesy in the New Millenium, pp. 193 - 198, Springer-Verlag, 2002.

2000

V.D. Andritsanos, M.G. Sideris and I.N. Tziavos, 2000: A survey of gravity field modeling applications of the Input-Output System Theory (IOST). *IGeS Bulletin No. 10*, 1 - 17, 2000.

I.N. Tziavos and W.E. Featherstone, 2000: First results of using digital density data in gravimetric geoid computation in Australia. International Association of Geodesy Symposia, M.G. Sideris (ed.), Gravity, Geoid and Geodynamics 2000, pp. 335 - 340, Springer-Verlag, 2001.

I.N. Tziavos, 2000: The geoid in the Mediterranean – Recent results and future plans. Invited paper, presented at the FIG Symposium *Mediterranean Surveyors in the New Millenium*, September 18 - 21, 2000, Malta.

1999

V.D. Andritsanos, K.E. Katsambalos, K.E. Kehaidou and I.N. Tziavos, 1999: Optimization of a local geoid using gravity, height, density and GPS data and FFT and GIS softwares. *Techn. Chron. Sci. J. TCG*, 19(1 - 2), 43 - 61.

- V.D. Andritsanos, V. Kagiadakis, V. Kostakis, E. Milona-Kotrogianni, C. Pikridas, D. Rossikopoulos, I.N. Tziavos and A. Fotiou, 1999: Local geoid determination combining GPS, Gravity and Height data - A case study in the area of Thessaloniki. *Techn. Chron. Sci. J. TCG*, 19(3), 61 - 74.
- V.D. Andritsanos and I.N. Tziavos, 1999: Estimation of gravity field parameters by a multiple input/output system. *Physics and Chemistry of the Earth (A)*, vol. 25(1), 39 - 46, 2000.
- J. Toth, Sz. Rozsa, V. Andritsanos, J. Ádám and I.N. Tziavos, 1999: Towards a cm-geoid for Hungary: recent efforts and results. *Physics and Chemistry of the Earth (A)*, vol. 25(1), 91 - 96, 2000.
- V.D. Andritsanos, D. Arabelos, S. Spatalas and I.N. Tziavos, 1999: Mean sea level studies in the Aegean Sea. *Physics and Chemistry of the Earth (A)*, vol. 25(1), 53 - 56, 2000.
- V.D. Andritsanos, A. Fotiou, E. Paschalaki, C. Pikridas, D. Rossikopoulos and I.N. Tziavos, 1999: Local geoid computation and evaluation. *Physics and Chemistry of the Earth (A)*, vol. 25(1), 63 - 69, 2000.
- E. Zidrou, M. Matziri, M. Papadopoulou, I.N. Tziavos, M. Tsakiri-Starti, and S. Hatzigaki, 1999: Multispectral bathymetry supported by sounding and GPS data. *Techn. Chron. Sci. J. TCG*, 20(2), 99 - 110.

1998

- D. Arabelos and I.N. Tziavos, 1998: Gravity field improvement in the Mediterranean Sea by estimating the bottom topography using collocation. *Journal of Geodesy*, 72, 136 - 143.
- I.N. Tziavos, M.G. Sideris and R. Forsberg, 1998: Combined satellite altimetry and shipborne gravimetry data processing. *Marine Geodesy*, 21, 299 - 317.
- I.N. Tziavos, R. Forsberg and M.G. Sideris, 1998: Marine gravity field modeling using shipborne gravity and geodetic mission altimetry data. *Geomatics Research Australasia*, 69, 1 - 18.
- I.N. Tziavos and V.D. Andritsanos, 1998: Recent geoid computations for the Hellenic area. *Physics and Chemistry of the Earth (A)*, vol. 24(1), 91 - 96, 1999.
- I.N. Tziavos, R. Forsberg and M.G. Sideris, 1998: Marine gravity field recovery by combining satellite altimetry and shipborne gravimetry. *Bollettino di Geofisica Teorica ed Applicata*, 40(3 - 4), 219 - 226, 1999.
- H. Denker and I.N. Tziavos, 1998: Investigation of the Molodensky series terms for terrain reduced gravity field data. *Bollettino di Geofisica Teorica ed Applicata*, 40(3-4), 195 - 203, 1999.
- J. Toth, J. Adam, Sz. Rozsa, I.N. Tziavos and V. Andritsanos, 1998: Gravimetric geoid computations in Hungary and the surrounding area. *Bollettino di Geofisica Teorica ed Applicata*, 40(3 - 4), 403 - 409, 1999.
- D. Arabelos, S. Spatalas, I.N. Tziavos, M.J. Sevilla, G. Rodriguez, C. De Toro, J. Catalao and J. Calvao, 1998: A new high resolution geoid for the Iberian Atlantic continental shelf area. *Bollettino di Geofisica Teorica ed Applicata*, 40(3 - 4), 411 - 419, 1999.
- I.N. Tziavos and V.D. Andritsanos, 1997: Improvements in the computation of gravimetric deflections of the vertical by FFT. Presented at the XXII General Assembly, Vienna, 21 - 25 April, 1997, In *Proceedings Journal (I.N. Tziavos and M. Vermeer eds.)*, *Physics and Chemistry of the Earth*, vol. 23(1), 71 - 75, 1998.
- I.N. Tziavos, R. Forsberg, M.G. Sideris, and V.D. Andritsanos, 1997: A comparison of satellite altimetry methods for the recovery of gravity field quantities. International Association of Geodesy Symposia, R. Forsberg, M. Feissel, R. Dietrich (eds.), pp. 150 - 155, Springer, 1998.
- I.N. Tziavos and V.D. Andritsanos, 1998: Recent advances in terrain correction computations. Presented at the 2nd Continental Workshop on the Geoid in Europe, Budapest Hungary, March 10-14, 1998, *Proceedings (M. Vermeer and J. Adam eds.)*, pp. 169 - 176.

I.N. Tziavos, J. Adam, J. Toth, V. Andritsanos and Sz. Rozsa, 1998: Recent geoid computations in Hungary and the surrounding area. *Presented at the 2nd Continental Workshop on the Geoid in Europe, Budapest Hungary, March 10 - 14, 1998, Proceedings (M. Vermeer and J. Adam eds.), pp. 25 7- 262.*

1996

D. Arabelos, S. Spatalas, I.N. Tziavos, M. Sevilla, J. Catalao, 1996: Geoid and tidal studies in the Mediterranean sea. Presented at the *XXI General Assembly, The Hague, The Netherlands, 6-10 May, 1996*, in *Proceedings (I.N. Tziavos and M. Vermeer eds.)*, pp. 175 - 180, Finnish Geodetic Institute, Masala 1996.

D. Arabelos and I.N. Tziavos, 1996: Combination of ERS-1 and TOPEX altimetry for precise geoid and gravity recovery in the Mediterranean Sea. *Geophysical Journal International*, 125, 285-302.

I.N. Tziavos, 1996: Comparisons of spectral techniques for geoid computations over large regions. *Journal of Geodesy*, 70, 357 - 373.

I.N. Tziavos, 1996: Evaluation of the new GSFC/DMA geopotential models in the Hellenic area and the Mediterranean Sea. *IGeS Bulletin No 6*, 151 - 163.

I.N. Tziavos, M.G. Sideris and J. Li, 1996: Optimal spectral combination of satellite altimetry and marine gravity data. Presented at the *XXI General Assembly, The Hague, The Netherlands, 6-10 May, 1996*, in *Proceedings (I.N. Tziavos and M. Vermeer eds.)*, pp. 41 - 56, Finnish Geodetic Institute, Masala 1996.

I.N. Tziavos, M.G. Sideris and H. Sünkel, 1996: The effect of surface density variations on terrain modeling - A case study in Austria. Presented at the *XXI General Assembly, The Hague, The Netherlands, 6-10 May, 1996*, In *Proceedings (I.N. Tziavos and M. Vermeer eds.)*, pp. 99 - 110, Finnish Geodetic Institute, Masala 1996.

I.N. Tziavos, J. Li and M.G. Sideris, 1996: Marine gravity field modeling using non-isotropic a priori information. International Association of Geodesy Symposia. J. Segawa, H. Fujimoto and S. Okubo (eds.), *Gravity, Geoid and Marine Geodesy (GraGeoMar96)*, *Gravity, Geoid and Marine Geodesy*, pp. 400 - 407, 117, Springer, 1997.

1995

G.-C. Tsuei, D. Arabelos, I.N. Tziavos, 1995: Recent geoid computations in Taiwan. *Geomatics Research Australasia*, 65, 43 - 58, 1996.

1994

G.-C. Tsuei, D. Arabelos, R. Forsberg, M.G. Sideris and I.N. Tziavos, 1994: Geoid computations in Taiwan. International Association of Geodesy Symposia, H. Sünkel and I. Marson (eds.), *"Gravity and Geoid"*, pp. 446-458, Springer, 1995.

D. Arabelos and I.N. Tziavos, 1994: Gravity and geoid in the Mediterranean from a common adjustment of ERS-1 and TOPEX altimeter data. International Association of Geodesy Symposia, H. Sünkel and I. Marson (eds.), *"Gravity and Geoid"*, pp. 376-385, Springer, 1995.

D. Arabelos and I.N. Tziavos, 1994: The contribution of bathymetry to gravity field modeling. Presented at the *INSMAP 94, Hannover, Sept. 19-23, 1994*, in *Proc. of the Int. Symp. on Marine Positioning -INSMAP 1994 - (Kumar, Maul, Seeber eds.)*, pp. 114 - 123, 1994.

D. Arabelos and I.N. Tziavos, 1994: Comparisons of the global ETOPO5U model with local DTMs. Presented at the *INSMAP 94, Hannover, Sept. 19 - 23, 1994*, in *Proc. of the Int. Symp. on Marine Positioning -INSMAP 1994 - (Kumar, Maul, Seeber eds.)*, pp. 132 - 141, 1994.

- D. Arabelos and I.N. Tziavos, 1994: Marine geoid solutions by spectral and stochastic techniques-Examples for the Mediterranean Sea. Presented at the *INSMAP 94*, Hannover, Sept. 19 - 23, 1994, in Proc. of the *Int. Symp. on Marine Positioning - INSMAP 1994 - (Kumar, Maul, Seeber eds.)*, pp. 177 - 189, 1994.
- D. Arabelos and I.N. Tziavos, 1994: Recent results of the GEOMED project. Presented at *INSMAP 94*, Hannover, Sept. 19-23, 1994, in Proc. of the *Int. Symp. on Marine Positioning -INSMAP 1994 - (Kumar, Maul, Seeber eds.)*, pp. 467 - 479, 1994.

1993

- I.N. Tziavos, D. Arabelos and S.D. Spatalas, 1993: Geoid modeling and comparisons with GPS and satellite altimetry in the Hellenic area. Presented at the *EGS XVIII General Assembly, Session G3 "The European Geoid Determination"*, Wiesbaden, 1993, in *Proceedings (R. Forsberg and H. Denker eds.)*, pp. 26 - 33, 1993.
- I.N. Tziavos, 1993: Gravity field modeling using the fast Hartley transform, 1993: Presented at the *EGS XVIII General Assembly, Session G3 "The European Geoid Determination"*, Wiesbaden, 1993, in *Proceedings (R. Forsberg and H. Denker eds.)*, pp. 46 - 53, 1993.

1992

- D. Arabelos and I.N. Tziavos, 1992: Gravity field approximation using airborne gravity gradiometer data. *Journal of Geophysical Research*, 79, B5, 7097 - 7108.
- I.N. Tziavos, M.G. Sideris and K.P. Schwarz, 1992: A study of the contribution of various gravimetric data types on the estimation of gravity field parameters in the mountains. *Journal of Geophysical Research*, 97, B6, 8843 - 8852.
- A. Dermanis, A. Filaretou, E. Livieratos and I.N. Tziavos, 1992: Strain representation of the potential anomalies in the Eastern Mediterranean. *Manuscripta Geodaetica*, 17(3), 164 - 173.
- I.N. Tziavos, 1992: Alternative numerical techniques for the efficient computation of terrain corrections and geoid undulations. Presented in the *First Continental Workshop for the Geoid in Europe "Towards a precise Pan-European geoid for the nineties"*, Prague, May 11-14, 1992, in *Proceedings. (P. Holota and M. Vermeer eds.)*, pp. 312 - 326, 1992.

1991

- I.N. Tziavos, K.P. Schwarz, R. V. C. Wong and J. Panenka, 1991: Controlling common mode stabilization errors in airborne gravity gradiometry. International Association of Geodesy Symposia, O.L. Colombo (ed.), *"From Mars to Greenland: Charting Gravity with Space and Airborne Instruments"*, pp. 301 – 310, 1992.

1990

- D. Arabelos and I.N. Tziavos, 1990: Sea surface heights in the Mediterranean Sea from GEOSAT altimeter data. *Journal of Geophysical Research (Oceans)*, 95 (C10, part 2), 17947 - 17956.
- D. Arabelos and I.N. Tziavos, 1990: Estimation of the gravity field and sea surface heights from heterogeneous data in the Central Mediterranean. International Association of Geodesy Symposia, R.H. Rapp and F. Sansò (eds.), *"Determination of the geoid – Presence and Future"*, pp. 95 - 107, Springer-Verlag, 1991.

- I.N. Tziavos and D. Arabelos, 1990: Estimation of disturbing potential components and comparison with GPS and astrogeodetic data. International Association of Geodesy Symposia, R.H. Rapp and F. Sansò (eds.), "*Determination of the geoid – Presence and Future*", pp. 141 - 151, 1991.
- E. Livieratos and I.N. Tziavos, 1990: Correlation of the strain representation of the potential anomalies with the geoid. International Association of Geodesy Symposia, R.H. Rapp and F. Sansò (eds.), "*Determination of the geoid – Presence and Future*", pp. 374 - 381, 1991.
- D. Arabelos and I.N. Tziavos, 1990: Analysis of GEOSAT altimeter data. International Association of Geodesy Symposia, R.H. Rapp and F. Sansò (eds.), "*Determination of the geoid – Presence and Future*", pp. 476 - 483, 1991.

1989

- I.N. Tziavos, 1989: Baseline solution using GPS carrier phase difference observations. *Eratosthenes*, 26, 327 - 341.
- D. Arabelos, I.N. Tziavos and R. Forsberg, 1989: Sea surface height determination in the Mediterranean Sea by local adjustment of GEOSAT altimeter data. International Association of Geodesy Symposia, H. Sünkel and T. Baker (eds), "*Sea surface heights and the geoid*", pp. 95 - 107, Springer-Verlag, 1990.

1988

- I.N. Tziavos, M.G. Sideris, R. Forsberg and K.P. Schwarz, 1988: The effect of the terrain on airborne gravity and gradiometry. *Journal of Geophysical Research*, 93 (B8), 9173 - 9186.
- A. Fotiou, E. Livieratos and I.N. Tziavos, 1988: The GRS80 combined geoid for the Hellenic area and upper crust density anomalies corresponding to its high frequency representations. *Manuscripta Geodaetica*, 13, 267 - 274.
- M.G. Sideris and I.N. Tziavos, 1988: On the FFT-evaluation of gravity-field convolution integrals with mean and point data. *Bulletin Géodésique*, 62, 521 - 540.
- I.N. Tziavos, 1988: The Hellenic geoid to the GRS80 reference system. In Greek, *Eratosthenes*, vol. 22, pp. 157 - 180.

1987

- D. Arabelos and I.N. Tziavos, 1987: A comparison of two methods to compute degree variances of the gravity field. *Manuscripta Geodaetica*, 12, 223 - 237.
- I.N. Tziavos, 1987: Determination of geoidal heights and deflections of the vertical for the Hellenic area using heterogeneous data. *Bulletin Géodésique*, 61, 177 - 197.
- I.N. Tziavos, M.G. Sideris and K.P. Schwarz, 1987: Effect of terrain representation, grid spacing and flight altitude on topographic corrections for airborne gradiometry. Paper presented at the *15th Gravity Gradiometer Conference*, Colorado Springs, Feb. 11 - 13, 1987, and published in the *Proceedings of the Conference*.
- I.N. Tziavos, 1987: Comparison of the gravity spectrum as derived from a 360x360 geopotential model and regional gravity data. Paper presented at the *XIX General Assembly of IUGG/IAG*, Vancouver, Canada, Aug. 9-22, 1987. *Proceedings*, vol. I, pp. 177 - 193.

1986

- A. Fotiou, E. Livieratos and I.N. Tziavos, 1986: Comparisons of the various representations of the geoid for the Hellenic area. *Bolletino di Geodesia e Scienze Affini*, XLV, 3, 273 - 291.
- I.N. Tziavos, 1986: Fehler-Kovarianzfunktionen und Modelle für Schwereanomalien und Kugelfunktionsentwicklungen. *ZfV*, 9, 417 - 429.

1985

- I.N. Tziavos and A.G. Tsioumis, 1985: Planning of observations and reductions for the determination of astronomic geographic latitude and longitude. In Greek, *Quaterniones Geodesiae*, 6, 231 - 262.
- E. Livieratos, T. Marketou, S. Proussalis, I.N. Tziavos, A. Tsioumis and A. Fotiou, 1985: Application of a magnetometric survey in the archaeological area of Ialissos in Rodos island. In Greek, *Quaterniones Geodesiae*, 6, 189 - 216.

1983

- D. Arabelos and I.N. Tziavos, 1983: Determination of deflections of the vertical using a combination of spherical harmonics and gravimetric data for the area of Greece. *Bulletin Géodésique*, 57, 240 - 256.
- L.N. Mavridis, P. Savaidis, A.C. Tsioumis and I.N. Tziavos, 1983: Astronomical determination of the deviation of the vertical in various areas of Greece. I: Measurements in central Macedonia during the year 1980. *Proceedings of the Academy of Athens*, vol. 58, pp. 401 - 414.
- L.N. Mavridis, A.C. Tsioumis and I.N. Tziavos, 1983: Astronomical determination of the deviation of the vertical in various areas of Greece. II: Measurements in western Macedonia and Peloponnese during the year 1981. *Proceedings of the Academy of Athens*, vol. 58, pp. 415 - 425.

1981

- D. Arabelos, L.N. Mavridis and I.N. Tziavos, 1981: Gravimetric geoid determination for the area of Greece. *Sun and Planetary System. Proceedings of the 6th European Regional Meeting in Astronomy*. Dubrovnik Oct. 19 - 23. W. Fricke and G. Teleki (eds.). D. Reidel, pp. 203 - 204.