
CURRICULUM VITAE



GEORGIOS S. VERGOS

Dipl. Rural and Surveying Engineering

MSc. Geomatics Engineering

Dr. Rural and Surveying Engineering

Professor RSE/AUTH

THESSALONIKI, GREECE

February 2026

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CURRICULUM VITAE

1. PERSONAL DATA

NAME: Georgios S. Vergos

PLACE AND DATE OF BIRTH: Göttingen, Low-Saxony, Germany, March 18, 1978

MARITAL STATUS: Married with Elena Tzanou, father of two children

WORK:

Department of Geodesy and Surveying
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2. ACADEMIC RECORD

- **1995:** Completion of studies in High school and Lyceum. During my enrollment in the Secondary and High school I was awarded each year with praise (graduation with Excellent). Registration after exams at the School of Rural and Surveying Engineering (RSE) of the Polytechnic School of the Aristotle University of Thessaloniki (AUTH).
- **September, 1995 – July 2000:** Undergraduate student at the RSE of the AUTH.
- **March 1999 – June 2000:** Diploma thesis at the Department of Geodesy and Surveying of the School of Rural and Surveying Engineering of the Aristotle University of Thessaloniki under the title *“The contribution of satellite altimetry to gravity field modeling – A case of study in the Eastern Mediterranean”*.
- **July 2000:** Graduate student of the School of Rural and Surveying Engineering of the Aristotle University of Thessaloniki. Graduation with “Very Good” (8.49).
- **July 2000:** Dip. Eng. of the School of Rural and Surveying Engineering of the Faculty of Engineering of the Aristotle University of Thessaloniki.
- **July 2000 – June 2002:** Graduate student at the Department of Geomatics Engineering, Faculty of Engineering of the University of Calgary, Calgary, Alberta, Canada. Enrollment in an MSc program under the title “Gravity and Reference Systems”.
- **March 2002:** Successful defense of Master of Science theses under the title *“Sea Surface Topography, Bathymetry and Marine Gravity Field Modeling”*. The examining committee of my theses was Drs. M.G. Sideris, N. El Sheimy, N. Sneeuw and P. Wu.
- **December 2002 – July 2006:** PhD candidate at the Department of Geodesy and Surveying of the Aristotle University of Thessaloniki, Greece under the supervision of Prof. Dr. I.N. Tziavos.

- **July 2006:** Dr. Rural and Surveying Engineer, Department of Geodesy and Surveying, Aristotle University of Thessaloniki. PhD Thesis under the title *“Study of the Earth’s Gravity Field and Sea Surface Topography in Greece by combining surface data and data from the new satellite missions of CHAMP and GRACE”*.
- **April 2008 – December 2012:** Lecturer at the Department of Geodesy and Surveying, AUTH.
- **January 2013 – March 2017:** Assistant Professor at the Department of Geodesy and Surveying, AUTH.
- **April 2017 – May 2021:** Associate Professor at the Department of Geodesy and Surveying, AUTH.
- **June 2021 – today:** Professor at the Department of Geodesy and Surveying, AUTH.

3. PROFESSIONAL EXPERIENCE

Professional Researched in Rural and Surveying Engineering since 06/10/2004 (**AM 17538**) with A’ Class Diplomas in the following Categories: (a) 16: Surveying Research and (b) 10: Research in Transport and Road Engineering.

Rich experience and related applications in:

- Marine and land geoid and gravity field determination in local and regional scales
- Use of remote sensing satellites to improve the geophysical corrections in satellite altimetry data
- Experience in field surveying
- Experience in computer aided drawing software (CAD)
- Use of the Global Positioning System (GPS) in surveying and road planning applications
- Combination of GPS with GIS for hydraulics, environmental and cadastral studies

4. TEACHING EXPERIENCE

School of Rural and Surveying Engineering - AUTH

Since 2005-2006 I have lectured and am actively lecturing at the Department of Geodesy and Surveying, School of Rural and Surveying Engineering, Aristotle University of Thessaloniki the following courses:

Current lecturing

- a) *Signals and Spectral Methods in Geoinformatics (3rd Semester).*
- b) *Introduction to the Gravity Field of the Earth (4th Semester).*
- c) *Gravimetry (7th Semester).*
- d) *Internship Program of the School of Rural and Surveying Engineering (7th Semester).*
- e) *Field Surveying Exercises (8th Semester).*
- f) *Physical Geodesy (8th Semester).*

Lectured in the past

Undergraduate program

- a) *Surveying Instruments and Measurement Techniques (1st Semester).*
- b) *Signals and Spectral Methods in Geoinformatics (3rd Semester).*
- c) *GPS (5th Semester)*
- d) *Land Surveying (2nd Semester).*
- e) *Introduction to the Gravity Field of the Earth (4th Semester).*
- f) *Field Application of Layout Plans and Surveying Practice (6th Semester).*
- g) *Gravimetry (7th Semester).*
- h) *Internship Program of the School of Rural and Surveying Engineering (7th Semester).*
- i) *Entrepreneurship and Innovation in RSE Science (7th Semester).*
- j) *Field Surveying Exercises (8th Semester).*
- j) *Physical Geodesy (8th Semester).*

Graduate courses

- a) *Foundation research seminar (1st Semester).*
- b) *Specialization research seminar in Advanced Geodetic Applications (2nd Semester).*
- c) *Gravity field and GPS Leveling GPS (2nd Semester).*

Department of Geo-informatics and Surveying – TEI of Serres

Research assistant at the Department of Geo-informatics and Surveying of the Technological Educational Institute (TEI) of Serres since September 2002. I have taught the following courses:

- a) *Applications of the Global Positioning System (GPS) (5th Semester) 09/2002-09/2005.*
- b) *Surveying III (4th Semester) 09/2003 – 09/2005.*
- c) *GPS Applications (6th Semester) 09/2004 – 09/2005.*

During my employment at the Department of Geo-informatics and Surveying I supervised ten (10) Diploma Theses.

Seminars

Lecturer of a one-week seminar at the Department of Agriculture on «*The Global Positioning System and its Applications*» (5/12/2005-9/12/2005).

5. SUPERVISIONS

PhD Thesis advisor

Natsiopoulou DA (2020) Study of sea level variations and geodetic determination of the dynamic ocean topography with satellite altimetry and gradiometry data. PhD Thesis, GravLab/DGS/RSE/AUTH. Examined successfully on 06.2020.

Pitenis E (2025) Analysis of GOCE gradiometric observations for regional gravity field improvement and geophysical applications. PhD Thesis, GravLab/DGS/RSE/AUTH. Examined successfully on 01.2025.

Member of the Advisory Committee

Anastasiadis KA (2024) 3D vector modeling and computation methods of the gravitational and magnetic signal of finite distributions, far from the observation point. PhD Thesis, GravLab/DGS/RSE/AUTH. Examined successfully on 05.2024.

Gavriilidou G (2025) Analytical and numerical methods for the determination of the gravitational signal of known distributions at different scales. PhD Thesis, GravLab/DGS/RSE/AUTH. Examined successfully on 04.2025.

Public Opposer/Examiner

Afrasteh Y (2023) Model-based hydrodynamic levelling: An impact study on the European Vertical Reference Frame. Graduate School, TU Delft.

Mphuthi MS (2021) Towards a geoid consistent vertical datum in South Africa. Faculty of Engineering and Built Environment, University of Cape Town.

Saari T (2022) Investigations of geoid models in Finland – Towards GNSS-related height system. Department of Built Environment, School of Engineering, Aalto University.

Vu DT (2020) Height system unification and estimation of the lithospheric structure beneath Vietnam through high-resolution gravity field and quasigeoid modeling. GET - Geosciences Environment Toulouse, Université Toulouse.

6. ADMINISTRATIVE WORK

- Head of GravLab DGS/AUTH (21/9/2022 – today).
- Member of the RSE/AUTH Strategic Planning Committee (01.09.2025 – today).
- Member of the RSE/AUTH Undergraduate Program Supervision and Assessment Committee (01.09.2025 – today).
- Head of DGS/AUTH (01.09.2018-31.08.2019 & 01.09.2021-31.08.2023).
- Coordinator of the RSE/AUTH Internal Evaluation Committee (01.12.2017-09.2024).
- Coordinator of the RSE/AUTH Undergraduate Program Certification Committee (01.12.2017-09.2024).
- Member of the RSE/AUTH Strategic Planning and Undergraduate Program Reform Committee (01.12.2017-01.09.2025).
- Representative of the School of Rural and Surveying Engineering in the Social Exhibits Committee of the Faculty of Engineering of AUTH (September 2008 - today)
- Member of the RSE/AUTH general assembly.
- Member of the DGS general assembly.
- Responsible for the Undergraduate Studies Handbook of RSE/AUTH.
- Webmaster of the RSE/AUTH webpage.
- Responsible for the convocation ceremonies of RSE/AUTH.
- Scientific responsible of the Internship Program of RSE/AUTH.
- Scientific responsible of the Entrepreneurship and Innovation Program of RSE/AUTH.

7. RESEARCH ACTIVITIES

- Gravity field modeling.
- Vertical Datum Unification
- Absolute and relative gravimetry
- Satellite altimetry.
- Spectral methods in geodesy.
- Physical oceanography.
- Ocean bathymetry estimation.
- Sea Surface Topography modeling.
- Wavelet methods in geoid and gravity field estimation and solution of boundary value problems.
- Spectral techniques in cartography.
- Satellite methods in geodesy and geophysics (GPS and radar altimetry).
- GPS/GIS combination.

Regular reviewer in:

- *Journal of Geodesy* (J Geod 2003(77): 487-488; J Geod 2004(78): 223-224)
- *Journal of Geodetic Science*
- *Journal of Geodynamics*
- *Arabian Journal for Science and Engineering*
- *Computer and Geosciences*
- the proceedings of the International Association of Geodesy and International Union of Geodesy and Geophysics Symposia.
- *Geotechnical Scientific Issues* (2003(14): 1-3)

8. PARTICIPATION IN RESEARCH PROJECTS AND RESEARCH EXPERIENCE

- (i) Research assistant and research associate at the Department of Geomatics Engineering of the University of Calgary under two GEOIDE Network of Centers of Excellence (NCE) projects.

ENV#13: The synergistic use of multi-sensor remote sensing for monitoring of the Earth's surface and atmospheric parameters. Duration: 07/2000 – 05/2002. The program objectives were: to determine the weather effects on radar signals; to evaluate the weather effects on sea surface temperature retrievals; to evaluate weather effects on sea ice SAR imagery; to develop methodology for retrieval of atmospheric parameters using weather radar and satellite observations; to validate geodetic products of satellite altimetry; to assimilate the improved remotely-sensed atmospheric and surface parameters into watershed hydrological models; and to develop a marketing plan for atmospheric and surface products. Funding: 994.000 €.

ACQ#10: Precise Geoid determination for geo-referencing and oceanography. Duration: 07/2000 – 05/2002. The program objectives were to: refine the gravimetric geoid prediction methods; investigate the required data coverage, accuracy and resolution for centimetre-level geoid determination; improve the modelling of tides and SST, especially in coastal regions, by additional oceanographic, hydrographic and atmospheric data; investigate appropriate geoid, gravity and SST determination methods using satellite altimetry and shipborne gravimetry data in the oceans; solve the altimetry-gravimetry problem in coastal regions and incorporate other available data sets in precise geoid determination. Funding: 624.000 €.

- (ii) Main investigator in the **AirGosat** project funded by the EU in the frame of the CAATER program. This project refereed to airborne gravity measurements in the area of Crete, Greece. Duration: 09/2000 – 09/2001.
- (iii) Main investigator in the **GAVDOS** project funded by the European Union Energy, Environment and Sustainable Development Program. Duration: 04/2002 – 12/2004. The project is entitled “**GAVDOS: Establishment of a European radar altimeter calibration and sea-level monitoring site for JASON, ENVISAT and Euro-GLOSS**” and its objectives are: the establishment of an absolute sea level monitoring and altimeter calibration facility on the isle of Gavdos, south of the island of Crete, Greece; to monitor deformations of the earth’s surface at the tide gauges in the area as a contribution to the European Sea-level Observing System (EOSS) project; the development of a detailed regional geoid and Sea Surface Topography (SST) model. These models are required for referencing the altimeter measurements over the calibration facility and for studying the regional sea current circulation. Funding: 2.400.000 €.
- (iv) Main investigator in the «**Satellite Altimetry Studies in the Black Sea and the Aegean**» project funded by the GSRT. The project was funded in the frame of the bilateral cooperation program between Greece and Bulgaria. Duration: 06/2003 – 06/2005. Funding: 11.740 €.
- (v) Main investigator in the “**Optimal Combination of Terrestrial and Altimetric Data with Data from the New Satellite Missions of CHAMP and GOCE for the Accurate Determination of the Gravity Field**” project funded by the GSRT. The project was funded in the frame of the bilateral cooperation program between EU and non-EU countries. Duration: 10/2003 – 10/2005. Funding: 60.000 €
- (vi) Main investigator in the “**Satellite Altimetry Studies in the Mediterranean Sea and the Aegean**” project. The project is conducted in the frame of the ESA call for the utilization of ERS1/2 and ENVISAT data. Duration: 10/2003 – 10/2005.
- (vii) Main investigator in the “**Forest and Environmental Impact of road cutting in natural ecosystems**” project under the ΕΠΕΑΕΚ II program «Nature-Archimedes»: Support to Research Teams in TEI», Meter 2.6, funded by the Greek Ministry of Education. Duration: 01/2004 – 01/2007. Funding: 55.000 €
- (viii) Main investigator in the «**Professional consulting for the development of wages in administrative studies of Meter 6.3 Action A**» project funded by the National Institute of Forest Research of Thessaloniki. The main focus of the project was the *geocoding of information for cartographic studies and the processing and visualization of geodata*. Duration: 01/12/2003 – 15/01/2004.
- (ix) Main investigator in the «**Modeling and interpretation of the gravity field in local and regional scale combining terrestrial and satellite data**» project under the ΕΠΕΑΕΚ II program «Pythagoras II – Support to Research Teams in the Universities». Duration: 01/1/2005 – 31/12/2006. Funding: 90.000 €.
- (x) Main investigator in the «**Validation, quality assessment and interpretation of current satellite-only Earth gravity models**» project funded by the GSRT. The project was funded in the frame of the bilateral cooperation program between Greece and Czech Republic. Duration: 11/2005 – 11/2007. Funding: 11.740 €
- (xi) Main investigator in the «**Gravity Field Modeling for the Mediterranean Sea by Combining Satellite and Marine Gravity Data**» project funded by the GSRT. The project was funded in the frame of the bilateral cooperation program between Greece and Italy. Duration: 11/2005 – 11/2007. Funding: 11.740 €
- (xii) Main investigator in the “**Comparison of GOCE data with gradiometric observations, gravity anomalies and satellite altimetry data at various altitudes for precise geoid and gravity field**”

- approximation in Europe”** project. The project is conducted in the frame of the ESA AO call for the utilization of GOCE data. Duration: 04/2007 – today.
- (xiii) Scientific responsible of the «**Student’s Internship School of Rural and Surveying Engineering**», project of the RSE/AUTH funded by the Operation Program “Education and Lifelong Learning 2007-2013”. Duration: 10/2010 – 10/2013. Budget: 158.182,86 €. Extension for the period 10/2013 – 09/2015. Budget: 83.584,73 €.
 - (xiv) Scientific responsible of the «**Entrepreneurship and Innovation in Rural and Surveying Engineering**» project of the RSE/AUTH funded by the Operation Program “Education and Lifelong Learning 2007-2013”. Duration: 09/2010 – 09/2013. Extension for the period 10/2013 – 09/2015.
 - (xv) Main investigator in the «**Development of an Information System for Natural Risk Management in the Mediterranean - SyNaRMa**» program funded by the European Regional Development Fund and Greek National Funds. The project is in the frame of the INTEREG III Community Initiative, Strand B, program ARCHIMED, Priority Axes 3 «Integrated and sustainable management of cultural and natural resources and of landscapes and risk management», Measure 3.3.5 «Management, prevention and reduction of natural risks: drought, desertification, fires, earthquakes etc.». Duration: 06/2006 – 12/2007. Funding: 1.752.300 €.
 - (xvi) Main investigator in the «**Development of a common intraregional monitoring system for the environmental protection and preservation of the Black Sea – ECO-Satellite**» project funded by the European Union in the frame of the European Neighborhood & Partnership Instrument – ENPI and national funds. Duration: 10/2011 – 10/2013. Budget: 650.000,00 €.
 - (xvii) Main investigator in the «**Evaluation of the Hellenic Vertical network in the frame of the European systems and control networks interconnection - Application in the areas of Attiki and Thessaloniki**» project funded by the Operation Program “Education and Lifelong Learning 2007-2013” in the frame of the Archimedes III action. Duration: 11/2011 – 04/2014. Budget: 83.000,00 €.
 - (xviii) Main investigator in the «**External calibration/validation of ESA’s GOCE mission and contribution to dynamic ocean topography and sea level change determination through stochastic combination with heterogeneous data – GOCE-SeaComb**» project, funded by the European Space Agency within the ESA/PRODEX office. Duration: 07/2012 – 07/2014. Budget: 123.013,00 €.
 - (xix) Main investigator in the « **Height System Unification, Dynamic Ocean Topography and gravity field determination with GOCE Global Geopotential Models employing stochastic methods and heterogeneous data sources – GOCE⁺⁺⁺** » project, funded by the European Space Agency within the ESA/PRODEX office. Duration: 02/2016 – 07/2017. Budget: 56.503,00 €.
 - (xx) Coordinator in the “**GOCE for height system unification and dynamic ocean topography determination in the Mediterranean Sea – GOCEMed**» project, funded by the National Scholarships Foundations and DAAD Duration: 01/2016 – 12/2017. Budget: 9.937,00 €.
 - (xxi) Technical Advisor in the “**Development of an observation system for the integrated management of coastal zone**” funded by the Region of Central Macedonia. Duration: 06/2019 – 12/2020. Budget: 1.500,00 €.
 - (xxii) Main investigator in the «**Geoid and Gravity Field Modelling by GOCE Satellite Gradients and Terrestrial Data – GeoGravGOCE**» project, funded by the HFRI(ELIDEK)/GSRT. Duration: 23/12/2019 – 22/12/2021. Budget: 186.895,50 €.
 - (xxiii) Main investigator in the «**Modernization of the Hellenic Gravity Network – ModernGravNet**» project, funded by the HFRI(ELIDEK)/GSRT. Duration: 23/12/2019 – 22/06/2022. Budget: 173.192,66 €.

- (xxiv) Main investigator in the **“EaRth Observation Tools for the promotion of DigITal Economy – Erodite»** project, funded in the frame of the H2020 Erasmus+ (Erasmus+) in the frame of the EAC/A02/2019 call EAC/A02/2019. Duration: 01/2021 – 01/2024. Budget: 900.666,67 €.
- (xxv) Coordinator in the **“Operation of the observatory for the integrated management of the coastal zone”**, funded by the Region of Central Macedonia. Duration: 09/2021 – 08/2023. Budget: 160.366,37 €.
- (xxvi) Coordinator in the **“Generation and strengthening of network differential positioning services through continuously operating reference stations for land and airborne applications – GeoNetGNSS»** project, funded by the European Union and National Funds through the RCM OP (KEPA/ANEM) in the frame of the action Innovation Investment Plans. Duration: 10/2021 – 02/2025. Budget: 396.656 €.
- (xxvii) Main investigator in the **“Partial Building of the Geodetic Reference Framework, Phase III” (CONSTRUCTION OF THE SECOND ORDER NETWORK OF KRGJSH)”** project funded by the State Authority for Geospatial Information (ASIG). Duration 06/2023-12/2023. Budget: 51.655 €.
- (xxviii) Coordinator in the **“Interoperational Geoinformatics System for the General Directorate of Development and Environment of the Region of the Central Macedonia”** project funded by the «Antonis Tritsis”, Ministry of Interior initiative. Duration 02/2024-11/2024. Budget: 8.000 €.
- (xxix) Coordinator in the **“Partial construction of the Albanian Geodetic Reference Framework, Phase IV”** project funded by the State Authority for Geospatial Information (ASIG). Duration 05/2024-12/2024. Budget: 34.300 €.
- (xxx) Coordinator in the **“GREEK NATIONAL SATELLITE SPACE PROJECT: AXIS 3 LAND MONITORING SERVICE”** project funded by the European Space Agency. Duration 09/2024-06/2026. Budget: 27.872 €.
- (xxxi) Coordinator in the **“NGGM and MAGIC Science and Applications Impact Study”** project funded by the European Space Agency. Duration 09/2024-06/2026. Budget: 55.000 €.

9. EDITOR IN IAG PROCEEDINGS AND JOURNAL SPECIAL ISSUES

- (i) International Symposium on Gravity, Geoid and Height Systems 2016 (2019) International Association of Geodesy Symposia Vol. 148 “Proceedings Organized by IAG Commission 2 and the International Gravity Field Service, Thessaloniki, Greece, September 19-23, 2016”. ISSN: 0939-9585, doi: 10.1007/978-3-319-95318-2.
<https://www.springer.com/gp/book/9783319953175>
- (ii) Reference Systems in Physical Geodesy (2023) Journal of Geodesy. ISSN: 0949-7714 (Print) 1432-1394 (Online).
https://link.springer.com/journal/190/topicalCollection/AC_f0ca50906c8c57011bdba4184a23d013.
- (iii) Geodesy for Gravity and Height Systems (2020) Remote Sensing. ISSN 2072-4292.
https://www.mdpi.com/journal/remotesensing/special_issues/geodesy_gravity#info

10. CONFERENCE PARTICIPATION & ORGANIZATION

10.1 Conference Participation

- (i) The Hellenic Cadastre in Use – Experiences, Ascertainments and Suggestions. February 10th – 11th, 2000, Thessaloniki, Greece.
- (ii) IAG International Symposium on Gravity, Geoid and Geodynamics 2000 – IAG GGG2000 Conference. July 30th – August 4th 2000, Banff, Alberta, Canada.
- (iii) 3rd Annual Conference of the GEOIDe Network of Centers of Excellence (NCE), June 21– 22, 2001, Fredericton, New Brunswick, Canada.
- (iv) International Association of Geodesy (IAG) Scientific Assembly, September 2 – 7, 2001, Budapest, Hungary.
- (v) Joint Assemblies of the International Association for the Physical Sciences of the Oceans and International Association for Biological Oceanography IAPSO/IABO Oceanographic Meeting, Mar del Plata, Argentina, October 21-28, 2002.
- (vi) XXVII General Assembly of the European Geophysical Union (EGS), Nice, France, April 21 – 26, 2002.
- (vii) Annual Scientific Meeting of the Canadian Geophysical Union (CGU) – A Joint Assembly with the Canadian Society of Soil Science (CSSS), Banff, Alberta, Canada, May 18 –21, 2002.
- (viii) 3rd Meeting of the International Gravity and Geoid Commission (IGGC), Gravity and Geoid 2002 – GG2002, August 26-30, Thessaloniki, Greece.
- (ix) 2003 General Assembly of the International Union of Geodesy and Geophysics (IUGG2003), June 30 – July 11, Sapporo, Japan.
- (x) Joint CHAMP/GRACE Science Meeting, July 6-8 2004, Potsdam, Germany.
- (xi) IAG International Symposium on Gravity Geoid and Space Missions 2004 (GGSM2004), August 30th – September 3rd, Porto, Portugal.
- (xii) The Evolution of Instruments, Methods and Measuring Systems in Surveying Sciences in Greece, April 15-16 2005, Thessaloniki, Greece.
- (xiii) XXIV General Assembly of the International Union of Geodesy and Geophysics (IUGG2007), July 2-13, 2007, Perugia, Italy.
- (xiv) “Studying, Modeling and Sense Making of Planet Earth” 2008 International Conference, June 1-6, 2008, Mytilene, Greece.
- (xv) Gravity, Geoid and Earth Observation 2008 (GGEO2008) International Symposium of the International Association of Geodesy (IAG), June 23-27, Chania, Greece.
- (xvi) 2011 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 3 – 8, 2011.
- (xvii) 2012 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 22 – 27, 2012.
- (xviii) 32nd European Association of Remote Sensing Laboratories (EARSel) Symposium, Mykonos, Greece, May 21-25, 2012.
- (xix) 20 Years of Progress in Radar Altimetry, ESA/CNES Symposium, Venice, Italy, September 24-29, 2012.

- (xx) 2013 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 07 – 12, 2013.
- (xxi) 2014 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 27 – May 2, 2014.
- (xxii) Copernicus Sentinels serving society and the environment. May 12-13, Evgenidis Foundation, Athens, Greece.
- (xxiii) The 3rd International Gravity Field Service (IGFS) General Assembly, June 30-July 6, 2014, Shanghai, China.
- (xxiv) 5th International GOCE User Workshop, November 25-28, 2014, Paris, France.
- (xxv) XXVI General Assembly of the International Union of Geodesy and Geophysics (IUGG2015), June 22 – July 2, 2015, Prague, Czech Republic.
- (xxvi) 2016 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 17 – 22, 2016.
- (xxvii) 2016 ESA Living Planet Symposium, May 9-13, 2016, Prague, Czech Republic.
- (xxviii) 14th International conference of the Geological Society of Greece – EGE2016, May 25 – 27, Thessaloniki, Greece.
- (xxix) 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016 (GGHS2016), September 19-23, Thessaloniki, Greece.
- (xxx) 2017 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 23 – 28, 2017.
- (xxxi) Joint Scientific Assembly of the International Association of Geodesy (IAG) and International Association of Seismology and Physics of the Earth's Interior (IASPEI) 2017, July 30-August 4, Kobe, Japan.
- (xxxii) 2nd Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2018 (GGHS2018), September 17-21, Copenhagen, Denmark.
- (xxxiii) 2019 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 07 – 12, 2019.
- (xxxiv) Eighth International Conference on Remote Sensing and Geoinformation of the Environment, 16-18 March, 2020, Paphos, Cyprus.
- (xxxv) 2021 General Assembly of the European Geosciences Union (EGU) – vEGU (virtual), April 19 – 30, 2021.
- (xxxvi) 2021 International Association of Geodesy (IAG) Scientific Assembly, June 28 – July 2, Beijing, China (virtual).
- (xxxvii) 2022 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, May 23 – 27, 2022.
- (xxxviii) XXVII FIG Congress 2022, September 11-15, Warsaw, Poland.
- (xxxix) 3rd Joint Commission 2 and IGFS International Symposium, GGHS2022 “Gravity Geoid and Height Systems 2022”, 12-14 September 2022, Austin, Texas.
- (xl) 9th International Conference on Civil Protection & New Technologies – SafeThessaloniki 2022, Thessaloniki, Greece, September 29 – October 1, 2022.
- (xli) IAG Commission 1 “Reference Frames for Applications in Geosciences” – REFAG2022 Conference, October 17-20, Thessaloniki, Greece.

- (xlii) 2023 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 23 – 28, 2023.
- (xliii) Global Geodetic Observing System (GGOS) Days 2023, September 20-23, 2023.
- (xliv) 2024 General Assembly of the European Geosciences Union (EGU), Vienna, Austria, April 14 – 19, 2024.
- (xlv) Joint Commission 2, IGFS and GGOS Meeting International Symposium on Gravity, Geoid and Height Systems 2024 (GGHS2024), September 4-6, Thessaloniki, Greece.
- (xlvi) Global Geodetic Observing System (GGOS) Days 2024, October 10-11, Potsdam, Germany.
- (xlvii) IAG Workshop on Asia Pacific Gravity, Geoid, and Vertical Datums (IAG Asia Pacific GGVD 2024), November 6-8, Manilla, Philippines.
- (xlviii) ESA Living Planet Symposium 2025 – ESALP2025, June 23-27, Vienna, Austria.
- (xlix) IAG Scientific Assembly 2025 – IAG2025, September 1-5, Rimini, Italy.

10.2 Conference Organization

- (i) Member of the local organizing committee of the 3rd Meeting of the International Gravity and Geoid Commission (IGGC), Gravity and Geoid 2002 – GG2002, August 26-30, Thessaloniki, Greece.
- (ii) Member of the local organizing committee of the International Association of Geodesy 2010 School on Reference Frames, July 7-12, Mytilene, Greece.
- (iii) Member of the scientific committee of the 1st International Geomatics Applications Conference, September 8-11, Skiathos, Greece.
- (iv) President of the organizing committee of the 1st Joint Commission 2 and IGFS International Symposium, GGHS2016 “Gravity Geoid and Height Systems 2016”, 19-23 September 2016, Thessaloniki, Greece.
- (v) Member of the scientific committee of the 2nd Joint Commission 2 and IGFS International Symposium, GGHS2018 “Gravity Geoid and Height Systems 2018”, 17-21 September 2018, Copenhagen, Denmark.
- (vi) Member of the scientific committee of the 3rd Joint Commission 2 and IGFS International Symposium, GGHS2020 “Gravity Geoid and Height Systems 2020”, 15-18 September 2020, Austin, Texas.
- (vii) President of the organizing committee of the Joint Commission 2, IGFS and GGOS International Symposium, GGHS2024 “Gravity Geoid and Height Systems 2024”, 4-6 September 2024, Thessaloniki, Greece.
- (viii) Member of the scientific committee of the 2025 IAG Scientific Assembly IAG2025 “Geodesy for a challenging environment”, 1-5 September 2025, Rimini, Italy.
- (ix) Organizer and member of the scientific committee of the Joint IAG Sub-Commission 2.2, Sub-Commission 2.4, IGFS and GGOS Symposium on “Physical Height Systems and the International Height Reference Frame”, 7-9 April 2026, Riyadh, Kingdom of Saudi Arabia.

11. AWARDS-SCHOLARSHIPS-DISTINCTIONS

- Scholarship of the Greek National Scholarships Foundation for three consecutive years between 1997 to 2000.
- Awarded from the National Technical Chamber of Greece with the best student award for the 3rd year of my studies (1997-1998).
- During the Fall semester of the 1st year, 2000-2001, of my studies at the Department of Geomatics Engineering of the University of Calgary I was awarded with a Graduate Research Scholarship special award.
- During the Fall semester of the 1st year, 2000-2001, of my studies at the Department of Geomatics Engineering of the University of Calgary I was awarded with the REE – International Program award.
- During the Spring semester of the 1st year, 2000-2001, of my studies at the Department of Geomatics Engineering of the University of Calgary I was awarded with the Faculty of Graduate Studies Scholarship and a full Graduate Research Scholarship (GRS) award.
- Awarded with two awards by the International Association of Geodesy for participating to the following conferences: a) Scientific Assembly of the IAG, September 2-7, 2001, Budapest, Hungary and b) General Assembly of the International Union of Geodesy and Geophysics, June 30 - July 11, 2003, Sapporo, Japan.
- Scholarship of Excellence, Research Committee of the Aristotle University of Thessaloniki, during the second year of my PhD Studies (2004).
- Best student paper award in the Geoid, Gravity and Space Missions 2004 conference of the International Association of Geodesy (Porto, Portugal, 31 August – 4 September 2004).

12. MEMBERSHIPS - ASSOCIATIONS

- President of the IAG IGFS Central Bureau (2016 – today).
- Director of the IHRS/IHRF Coordination Center (07.2023– today).
- IGFS Representative to the GGOS Governing Board (07.2023– today).
- Member of the GGOS Executive Committee (07.2023– today).
- Chair of IAG Sub-Commission 2.2 “Methodology for Geoid and Physical Heights” (2019-2023, 2023-2027).
- IAG Fellow (2019 – today).
- Vice-chair of IAG Commission 2, ISG, IGFS, ICGEM JWG2.2.1 on “Integration and Validation of local geoid estimates” (2015 – today).
- Member of the IAG JWG2.1.2 on “Unified file formats and processing software for high-precision gravimetry” (2018 – today).
- Member of the IAG JWG2.2.2 on “The 1-cm geoid experiment” (2017 – today).
- Member of the IAG GGOS Committee on the Essential Geodetic Variables (2017-today).
- Member of the IAG Commission 1, Commission 2, IGFS, ICCT and GGOS Focus Area 1 “Unified Height System” JWG0.1 on “Strategy for the Realization of the IHRS” (2015 – today).
- Member of the International Association of Geodesy (IAG) Special Study Groups (SSGs) 3.167 on “Regional land and marine gravity field modeling” and 3.186 on “Altimetry data processing for gravity, geoid and sea surface topography determination” (2001 – 2003).

- Member of the IAG SSG - SG2 on “Satellite Altimetry: Data Quality Improvement and Coastal Applications (2003 – today).
- Member of the American Geophysical Union (AGU), the European Geophysical Society (EGS) and the Canadian Geophysical Union (CGU).
- Member of the International Association of Geodesy (IAG) (2003-today).
- Member of the National Technical Chamber of Greece (TEE) (June 2002 – today).
- Member of the Panhellenic Association of Dipl. Rural and Surveying Engineers (June 2002 – today).
- Member of the Association of Dipl. Rural and Surveying Engineers of Northern Greece (June 2002 – today).

13. EVALUATION & REVIEWING ACTIVITIES

- Member of the Mission Advisory Group of the ESA NGGM mission (08.2023 – 01/2026)
- Evaluator, Latvian Council of Science (LCS), Call for Fundamental and Applied Research Projects (06.2025-07.2025)
- Evaluator, Latvian Council of Science (LCS), Open Selection of Measure 1.1.1.9 for "Postdoctoral research" (06.2025-07.2025)
- Evaluator, Public School of Higher Education and Vocational Training, Nicosia, Cyprus Agency of Quality Assurance and Accreditation in Higher Education (04.2023-07.2023)
- Evaluator, HFRI 2nd Call Basic Research Financing (component 4.5 “Promote Research and Innovation” of the National Recovery and Resilience Plan (“Greece 2.0”)) (04.2023-06.2023)
- Evaluator, Associate Professor Atef Faleh Othman Al-Mashagbah promotion to Full Professor Al al-Bayt University, Faculty of Earth Science, Jordan (02.2023-04.2023)
- Evaluator, Polish National Science Center SONATA BIS-11 Call for proposals (12.2021-08.2021)
- Evaluator, Italian Ministry for University and Research (MUR) 2020 PRIN Call for proposals (7/2021-8/2021)

14. FOREIGN LANGUAGES & COMPUTER SKILLS

Foreign languages

- **English** : Excellent. I possess the FCE (Lower) degree of the University of Cambridge as well as the PCE (Proficiency) degree of the University of Cambridge. I possess the ETS’s TOEFL degree with a **273** score in a Computer Adaptive Test (CAT) (examination date 15-12-1999).
- **German** : Medium. I possess the Certificat degree of the Goethe Institut.

Computer skills

- Programming in FORTRAN
- Programming in MATLAB©
- Excellent knowledge of Windows – Office software suite (WORD, EXCEL, POWERPOINT, ACCESS)
- CAD Software: AUTOCAD® (AutoCAD® 12, 14, 2000, 2004)

- GIS Software: ArcGIS® (8.1, 8.3)
- Very good knowledge of image processing tools (CorelDraw, Photoshop, Photopaint)
- Operating systems known: Windows (93, 95, 98, 2000, XP), MS-DOS, UNIX, LINUX
- Knowledge of the mapping software package Generic Mapping Tools (GMT).
- Knowledge of the GRAVSOFTE software for gravity field modeling.
- GPS processing software (Ski Pro 1.0, 1.1, 2.1, Leica Geo Office Combined)

15. PUBLICATIONS AND SCIENTIFIC RECOGNITION

15.1 Refereed Papers¹

2001

- [1α] Andritsanos VD, Vergos GS, Tziavos IN, Pavlis EC, Mertikas SP (2001) A high resolution geoid for the establishment of the GAVDOS multi-satellite calibration site. In: Sideris (ed) Gravity Geoid and Geodynamics 2000, International Association of Geodesy Symposia Vol. 123, Springer Berlin Heidelberg New York, pp. 347-354.

2002

- [2α] Grebenitcharsky RS, Vergos GS and Sideris MG (2002) Combination of gravity, altimetry and GPS/Leveling data for the numerical solution of altimetry-gravimetry boundary value problems. In: Ádám J, Schwarz K-P (eds) Vistas for Geodesy in the New Millennium, International Association of Geodesy Symposia Vol. 125, Springer Berlin Heidelberg New York, pp. 150-155.
- [3α] 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.
- [4α] 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.
- [5α] Vergos GS, Sideris MG (2002a) Improving the Estimation of Bottom Ocean Topography with Altimetry-Derived Gravity Data Using the Integrated Inverse Method. In: Ádám J, Schwarz K-P (eds) Vistas for Geodesy in the New Millennium, International Association of Geodesy Symposia Vol. 125, Springer Berlin Heidelberg New York, pp. 529-534.
- [6α] Vergos GS, Sideris MG (2002b) Evaluation of Geoid Models and Validation of Geoid and GPS/Leveling Undulations in Canada. IGeS Bulletin 12:3-17.

2003

¹ All referred papers are available in PDF format through <http://vergos.webpages.auth.gr/index.php/publications/pubs>

- [7α] 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 (στα Βουλγάρικα).
- [8α] 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. In: Tziavos IN (ed) Gravity and Geoid 2002 - GG2002, 3rd Meeting of the International Gravity and Geoid Commission (IGGC), pp. 314-319.
- [9α] Vergos GS, Sideris MG (2003a) Estimation of High-Precision Marine Geoid Models Offshore Newfoundland, Eastern Canada. In: Tziavos IN (ed) Gravity and Geoid 2002 - GG2002, 3rd Meeting of the International Gravity and Geoid Commission (IGGC), pp. 126-131.
- [10α] Vergos GS, Sideris MG (2003b) Altimetry-Derived Marine Gravity Field Estimation Using Single- and Multi-Satellite Data. In: Tziavos IN (ed) Gravity and Geoid 2002 - GG2002, 3rd Meeting of the International Gravity and Geoid Commission (IGGC), pp. 308-313.

2004

- [11α] Mertikas S, Pavlis EC, Tziavos IN, Koutroulis E, Palamartchouk K, Papadopoulos T, Vergos GS (2004) Permanent facility for calibration/validation of satellite altimetry: GAVDOS. In: Bostater CR, Santoleri Jr R (eds), Remote Sensing of the Ocean and Sea Ice 2004, SPIE Proc vol 5569, pp 14-25.

2005

- [12α] Tocho C, Vergos GS, Sideris MG (2005) Optimal Marine Geoid Determination in the Atlantic Coastal Region of Argentina. In: Sansó F (ed) International Association of Geodesy Symposia Vol. 128, A Window on the Future of Geodesy, Springer Berlin Heidelberg New York, pp. 380-385.
- [13α] Tziavos IN, Vergos GS, Kotzev V, Pashova L (2005) Mean sea level and sea surface topography studies in the Black Sea and the Aegean. In: Jekeli C, Bastos L, Fernandes J (eds), Gravity Geoid and Space Missions 2004, International Association of Geodesy Symposia, Vol. 129, Springer Berlin Heidelberg New York, pp. 254-259.
- [14α] 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).
- [15α] Vergos GS, Tziavos IN, Andritsanos VD (2005a) On the Determination of Marine Geoid Models by Least-Squares Collocation and Spectral Methods Using Heterogeneous Data. In: Sansó F (ed) International Association of Geodesy Symposia Vol. 128, A Window on the Future of Geodesy, Springer Berlin Heidelberg New York, pp. 332-337.
- [16α] Vergos GS, Tziavos IN, Andritsanos VD (2005b) Gravity Data Base Generation and Geoid Model Estimation Using Heterogeneous Data. In: Jekeli C, Bastos L, Fernandes J (eds), Gravity Geoid and Space Missions 2004, International Association of Geodesy Symposia, Vol. 129, Springer Berlin Heidelberg New York, pp. 155-160.

2006

- [17α] 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.
- [18α] Tocho C, Vergos GS, Sideris MG (2006) A new marine geoid model for Argentina combining altimetry, shipborne gravity data and CHAMP/GRACE-type EGMs. *Geodesy and Cartography* 54(4): 177-189.
- [19α] 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.
- [20α] Tzanou EA, Vergos GS, Vergos SG (2006) Hydrology of the Northern Pindos Mountains (Greece): Emphasis on erosion problems caused by land management. Proceedings of the 12th Panhellenic Forestry Conference, Avtzis ND (ed), pp. 113-120.

2007

- [21α] Müller A, Bürki B, Limpach P, Kahle HG, Grigoriadis VN, Vergos GS, Tziavos IN (2007) 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.
- [22α] Tocho C, Vergos GS, Sideris MG (2007a) 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.
- [23α] Tocho C, Vergos GS, Sideris MG (2007b) Estudio preliminar de geoides marino en el océano atlántico Argentino. *Boletim de Ciências Geodésicas* 13(1): 3-21.
- [24α] Vergos GS, Grigoriadis V, 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.
- [25α] 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.
- [26α] 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.

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- [27α] 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.
- [28α] Vergos GS, Tziavos IN (2008a) Monitoring System Earth with the Recent and Forthcoming Gravity-Field Dedicated Satellite Missions. Proceedings of the International conference

“Studying, Modeling and Sense Making of Planet Earth – Earth 2008”, June 1-6, Mytilene, Greece.

- [29α] Vergos GS, Tziavos IN (2008b) Sea Level Variability in the Aegean Sea as a Tool for Climate Change Monitoring. Proceedings of the International conference “Studying, Modeling and Sense Making of Planet Earth – Earth 2008”, June 1-6, Mytilene, Greece.

2009

- [30α] 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.
- [31α] 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.
- [32α] 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.
- [33α] 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.

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- [34α] Fotiou A, Grigoriadis VN, Pikridas C, Rossikopoulos D, Tziavos IN, Vergos GS (2010) Combination Schemes for Local Orthometric Height Determination from GPS Measurements and Gravity Data. In: Mertikas SP (ed) Gravity, Geoid and Earth Observation 2008, International Association of Geodesy Symposia Vol. 135, Springer Berlin Heidelberg New York, pp. 309-314.
- [35α] Mertikas S, Daskalakis A, Hausleitner W, Tziavos IN, Vergos GS, Zervakis V, Partsinevelos P, Frantzis X, Andrikopoulos D, Tripolitsiotis A (2010) Calibration of satellite radar altimeters at Gavdos Cal/Val facility using three different methodologies. Proceedings of the ESA Living Planet Symposium, June 28 – July 2, Bergen, Norway. ESA Special Publication SP-686.
- [36α] Mertikas SP, Daskalakis A, Tserolas V, Hausleitner W, Tziavos IN, Vergos GS, Zervakis V, Frantzis X, Tripolitsiotis A, Partsinevelos P, Andrikopoulos D (2010) Absolute calibration of Jason satellite radar altimeters at Gavdos Cal/Val facility using independent techniques. Proc vol 7825 (78250C), Bostater CR, Mertikas SP, Neyt X, Velez-Reyes M (eds.), Remote Sensing of the Ocean, Sea Ice and Large Water Regions 2010, doi: 10.1117/12.865991.
- [37α] Mertikas SP, Ioannides RT, Tziavos IN, Vergos GS, Hausleitner W, Frantzis X, Tripolitsiotis A, Partsinevelos P, Andrikopoulos D (2010) Statistical Models and Latest Results in the Determination of the Absolute Bias for the Radar Altimeters of Jason Satellites using the Gavdos facility. *Mar Geod* 33(S1): 114-149, doi: 10.1080/01490419.2010.488973.
- [38α] Tocho C, Vergos GS, Sideris MG (2010) Further Improvements in the Determination of the Marine Geoid in Argentina by Employing Recent GGMs and Sea Surface Topography Models. In: Mertikas SP (ed) Gravity, Geoid and Earth Observation 2008, International Association of Geodesy Symposia Vol. 135, Springer Berlin Heidelberg New York, pp. 369-376.

- [39α] Tziavos IN, Vergos GS, Grigoriadis VN (2010) Investigation of topographic reductions and aliasing effects to gravity and the geoid over Greece based on various digital terrain models. *Surveys in Geophysics* 31(1)23-67. doi: 10.1007/s10712-009-9085-z.

2011

- [40α] Vergos GS (2011) The recent gravity-field dedicated satellite missions and applications to geosciences. *CHOROGrafies, "Spatial Approaches"*, 2(1)1-11. ISSN: 1792-3913.
- [41α] Mertikas SP, Daskalakis A, Tziavos IN, Vergos GS, Frantzis X, Tripolitsiotis A, Partsinevelos P, Andrikopoulos D, Zervakis V (2011) Ascending and Descending Passes for the Determination of the Altimeter Bias of Jason Satellites using the Gavdos facility. *Mar Geod* 34(S3-S4): 1-16, doi: 10.1080/01490419.2011.584837.

2012

- [42α] Savvaidis P, Tziavos IN, Grigoriadis VN, Vergos GS, Papadopoulou ID, Stergioudis A (2012) A WebGIS-based monitoring and decision support tool for the environmental protection and preservation of the Black Sea: The ECO-Satellite project. In: Proc. "Modern technologies, education and professional practice in geodesy and related fields", 20th International Symposium, 08 - 09 November, Sofia, 2012.
- [43α] Tocho C, Vergos GS, Sideris MG (2012) Investigation of topographic reductions for marine geoid determination in the presence of an ultra-high resolution reference geopotential model. In: Kenyon S, Pacino C, Marti U (eds) *Geodesy for Planet Earth*, International Association of Geodesy Symposia Vol. 136, Springer Berlin Heidelberg New York, pp. 419-426.
- [44α] Tziavos IN, Vergos GS, Grigoriadis VN, Andritsanos VD (2012) Adjustment of collocated GPS, geoid and orthometric height observations in Greece. Geoid or orthometric height improvement? In: Kenyon S, Pacino C, Marti U (eds) *Geodesy for Planet Earth*, International Association of Geodesy Symposia Vol. 136, Springer Berlin Heidelberg New York, pp. 481-488.
- [45α] Vergos GS, Tziavos IN, Sideris MG (2012) On the determination of sea level changes by combining altimetric, tide gauge, satellite gravity and atmospheric observations. In: Kenyon S, Pacino C, Marti U (eds) *Geodesy for Planet Earth*, International Association of Geodesy Symposia Vol. 136, Springer Berlin Heidelberg New York, pp. 123-130.

2013

- [46α] Alexandridis TK, Alexandrov BG, Monachou S, Kalogeropoulos C, Strati S, Vorobyova L, Bogatova Y, Grigoriadis VN, Vergos GS, Topaloglou C (2013) Monitoring water quality parameters in the marine area of Danube Delta using satellite remote sensing. Proc. SPIE 8795, First International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2013), 87950P, doi:10.1117/12.2027210.
- [47α] Anastasiou D, Gaifillia D, Katsdourou A, Kolyvaki E, Papanikolaou X, Gianniou M, Vergos GS, Pagounis V (2013) First validation of the Hellenic vertical datum as a prerequisite for the efficient disaster and resources management: the "Elevation" project. In: Dalyot S (ed), FIG Commission 3 "Spatial Information" conference proceedings, Athens, Greece.
- [48α] Mertikas SP, Daskalakis A, Tziavos IN, Andersen OB, Vergos GS, Tripolitsiotis A, Zervakis V, Frantzis X, Partsinevelos P (2013a) Altimetry, Bathymetry and Geoid variations at the Gavdos permanent Cal/Val Facility. *Adv Space Res* 51(8): 1418-1437, doi: 10.1016/j.asr.2012.10.021.

- [49α] Mertikas SP, Daskalakis A, Tziavos IN, Andersen OA, Vergos GS, Zervakis V (2013b) Local marine geoid variations and Jason-2 bias determination using the Gavdos permanent Cal/Val facility. European Space Agency “20 Years of progress in radar altimetry”, ESA Publications SP-710.
- [50α] Tzanou EA, Vergos GS (2013) The impact of recent high-resolution global digital elevation models to the determination of basin hydrological properties. In: Perakis K and Moysiadis A (eds) *Advances in Geosciences*, 32nd European Association of Remote Sensing Laboratories (EARSeL) Symposia, pp. 270-283.
- [51α] Tzanou EA, Vergos GS, Vergos SG (2013) Assessing forest fire risk and fire propagation in the area of Valia Calda, National Park of North Pindos, Greece. In: Perakis K and Moysiadis A (eds) *Advances in Geosciences*, 32nd European Association of Remote Sensing Laboratories (EARSeL) Symposia, pp. 231-243.
- [52α] Tziavos IN, Vergos GS, Mertikas SP, Daskalakis A, Grigoriadis VN, Tripolitsiotis A (2013) The contribution of local gravimetric geoid models to the calibration of satellite altimetry data and an outlook of the latest GOCE GGM performance in GAVDOS. *Adv Space Res* 51(8): 1502-1522 doi: 10.1016/j.asr.2012.06.013.
- [53α] Vergos GS, Natsiopoulou DA (2013) Ocean remote sensing altimetric satellites in support of sea level anomalies and mean sea surface modeling. In: Perakis K and Moysiadis A (eds) *Advances in Geosciences*, 32nd European Association of Remote Sensing Laboratories (EARSeL) Symposia, pp. 398-423.
- [54α] Vergos GS, Natsiopoulou DA, Tziavos IN (2013) Sea level anomaly and dynamic ocean topography analytical covariance functions in the Mediterranean Sea from ENVISAT data. European Space Agency “20 Years of progress in radar altimetry”, ESA Publications SP-710.

2014

- [55α] Grigoriadis VN, Kotsakis C, Tziavos IN, Vergos GS (2014) Estimation of the geopotential value W_0 for the local vertical datum of continental Greece using EGM08 and GPS/leveling data. In: Mart U (ed) *Gravity, Geoid and Height Systems (GGHS2012)*, International Association of Geodesy Symposia Vol. 141, Springer International Publishing Switzerland, pp. 249-255. doi: 10.1007/978-3-319-10837-7_32.
- [56α] Tocho C, Vergos GS, Pacino MC (2014) Evaluation of the latest GOCE/GRACE derived Global Geopotential Models over Argentina with collocated GPS/Leveling observations. In: Mart U (ed) *Gravity, Geoid and Height Systems (GGHS2012)*, International Association of Geodesy Symposia Vol. 141, Springer International Publishing Switzerland, pp. 75-83. doi: 10.1007/978-3-319-10837-7_10.
- [57α] Vergos GS, Grigoriadis VN, Tziavos IN, Kotsakis C (2014) Evaluation of GOCE/GRACE Global Geopotential Models over Greece with collocated GPS/Levelling observations and local gravity data. In: Mart U (ed) *Gravity, Geoid and Height Systems (GGHS2012)*, International Association of Geodesy Symposia Vol. 141, Springer International Publishing Switzerland, pp. 85-92. doi: 10.1007/978-3-319-10837-7_11.

2015

- [58α] Andritsanos V, Arabatzi O, Gianniou M, Pagounis V, Tziavos I, Vergos G, Zacharis E (2015) Comparison of Various GPS Processing Solutions toward an Efficient Validation of the Hellenic Vertical Network: The ELEVATION Project. *J Surv Eng* 10.1061/(ASCE)SU.1943-5428.0000164, 04015007.

- [59α] Andritsanos VA, Grigoriadis VN, Vergos GS, Pagounis V, Tziavos IN (2015) GOCE/GRACE GGM evaluation over Attica and Thessaloniki, Greece and local geoid modelling in support of height unification. *South-Eastern European Journal of Earth Observation and Geomatics*, 4(1): 105-122.
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15.2 Conference Presentations

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2001

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- [13b] Vergos GS, Sideris MG (2002b) Marine Geoid Estimation Using Satellite and Shipborne Data. Presented at the Annual Scientific Meeting of the Canadian Geophysical Union, May 18-21, Banff, Canada.
- [14b] Vergos GS, Sideris MG (2002c) Gravity Field and Quasi-stationary Sea Surface Topography Estimation Using Heterogeneous Data. Presented at the Annual Scientific Meeting of the Canadian Geophysical Union, May 18-21, Banff, Canada.
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- [27b] Tocho C, Vergos GS, Sideris MG (2006a) Efectos de aliasing en la determinación de geoides. Presented at Simposio Internacional: Gravedad y Geoides en Sud América, September 25-29, Buenos Aires, Argentina.
- [28b] Tocho C, Vergos GS, Sideris MG (2006b) Validation and evaluation of the SRTM DTM over Argentina and its implications for geodesy. Presented at the XXIII Scientific Meeting of the Argentinean Association of Geophysics and Geodesy (AAGG2006), August 14-18, Bahía Blanca, Argentina.
- [29b] Tziavos IN, Sideris MG, Vergos GS, Grigoriadis VN, Andritsanos VD (2006) An overview of spectral methods for the optimal processing of satellite altimetry and other data. Presented at the “15 Years of Progress in Satellite Altimetry” Symposium, March 13-18, Venice, Italy.

- [30b] Tziavos IN, Tsoulis D, Andritsanos VD, Grigoriadis VN, Tzanou EA, Vergos GS (2006) Establishment of a GPS network in Northern Greece for geodetic and geodynamic applications. Presented at the 1st International Symposium of the International Gravity Field Service “Gravity Field of the Earth”, August 28 – September 1 2006, Istanbul.
- [31b] Tziavos IN, Vergos GS (2006) Validation of CHAMP and GRACE derived EGMs and some notes on the combined adjustment of heterogeneous height systems. Presented at the 2006 EGU General Assembly, Session G8 “Earth's gravity field: instruments and applications - in memoriam of Peter Schwintzer”, April 2nd-7th, Vienna, Austria.

2007

- [32b] Novák P, Tsoulis D, Kadlec M, Vergos GS (2007) Numerical evaluation of terrain induced gravitational potentials and their derivatives by combination of analytical formulae and discrete integration. Presented at the EGU 2007 General Assembly, Vienna, Austria, April 15-20.
- [33b] Tocho C, Vergos GS, Sideris MG (2007) Estimation of a New High-Accuracy Marine Geoid Model Offshore Argentina Using CHAMP- and GRACE-derived Geopotential Models. Presented at the XXIV General Assembly of the IUGG (IUGG2007), July 2-13, Perugia, Italy.
- [34b] Tsoulis D, Novák P, Vergos GS, Kadlec M (2007) Evaluation of the terrain-generated gravitational potential and its directional derivatives by combination of analytical formulae and numerical integration. Presented at the XXIV General Assembly of the IUGG (IUGG2007), July 2-13, Perugia, Italy.
- [35b] Tziavos IN, Vergos GS, Grigoriadis VN, Tsoulis D, Andritsanos VD, Tzanou EA (2007) Analysis of Repeated GPS Measurements over a geodetic network and a common adjustment of heterogeneous height data. Presented at the XXIV General Assembly of the IUGG (IUGG2007), July 2-13, Perugia, Italy.
- [36b] Vergos GS, Tziavos IN (2007a) Height Datum Unification in Greece employing tide gauge, marine geoid and sea surface topography data. Presented at the XXIV General Assembly of the IUGG (IUGG2007), July 2-13, Perugia, Italy.
- [37b] Vergos GS, Tziavos IN (2007b) Estimating the Time-Variable Component of the Sea Surface Topography with Geodetic Data. Presented at the XXIV General Assembly of the IUGG (IUGG2007), July 2-13, Perugia, Italy.

2008

- [38b] Tziavos IN, Vergos GS, Grigoriadis VN (2008) Marine gravity field modeling using spectral methods. Presented at the 2008 EGU General Assembly, Session G1 “Marine Gravity Field Modeling”, April 13th-18th, Vienna, Austria.
- [39b] Vergos GS, Tziavos IN, Papageorgiou P, Grigoriadis VN (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 (GCEO2008) of the IAG, June 23-27, Chania, Greece.

2009

- [40b] Tocho C, Vergos GS, Sideris MG (2009) Investigation of topographic reductions for marine geoid determination in the presence of an ultra-high resolution reference geopotential

model. Presented at the 2009 Scientific Assembly of the IAG, *Geodesy for Planet Earth*, August 31 – September 4, Buenos Aires, Argentina.

- [41b] Tziavos IN, Vergos GS, Grigoriadis VN, Andritsanos VD (2009) Adjustment of collocated GPS, geoid and orthometric height observations in Greece. Geoid or orthometric height improvement? Presented at the 2009 Scientific Assembly of the IAG, *Geodesy for Planet Earth*, August 31 – September 4, Buenos Aires, Argentina.
- [42b] Vergos GS, Tziavos IN (2009) Investigation of height combination schemes for sea surface topography determination in the presence of satellite gravimetry data. Presented at the 2009 EGU General Assembly, Session G11 “High resolution geoid modelling with satellite, marine, terrestrial, and airborne gravity data”, April 19th-24th, Vienna, Austria.
- [43b] Vergos GS, Tziavos IN, Sideris MG (2009) On the determination of sea level changes by combining altimetric, tide gauge, satellite gravity and atmospheric observations. Presented at the 2009 Scientific Assembly of the IAG, *Geodesy for Planet Earth*, August 31 – September 4, Buenos Aires, Argentina.

2010

- [44b] Mertikas SP, Daskalakis A, Tserolas V, Hausleitner W, Tziavos IN, Zervakis V, Frantzis X, Tripolitsiotis A, Vergos GS, Partsinevelos P, Andrikopoulos D (2010) Absolute calibration of Jason satellite radar altimeters at Gavdos Cal/Val facility using independent techniques. Presented at the SPIE's International Symposium, Remote Sensing Europe (ERS10) - "Remote Sensing of the Ocean, Sea Ice, and Large Water Regions 2010", September 20-23, Toulouse, France.
- [45b] Mertikas S, Ioannides R, Hausleitner W, Tziavos IN, Zervakis V, Frantzis X, Tripolitsiotis A, Vergos GS, Partsinevelos P, Andrikopoulos D (2010) Calibration of satellite radar altimeters at Gavdos Cal/Val facility using three different methodologies. Presented at ESA Living Planet Symposium, June 28 – July 2, Bergen, Norway.
- [46b] Tocho C, Vergos GS, Sideris MG (2010a) Investigation of topographic reductions and aliasing effects on gravity and the geoid over continental Argentina. Presented at the 2010 AGU Meeting of the Americas, August 8 – 13, Foz do Iguassu, Brazil.
- [47b] Tocho C, Vergos GS, Sideris MG (2010b) An analysis of gravimetric reductions and their corresponding aliasing effects towards geoid determination in continental Argentina. Presented at the XXV Scientific Meeting of the Argentinean Association of Geophysics and Geodesy (AAGG2010), November 3-5, Córdoba, Argentina.
- [48b] Vergos GS (2010) Modern methods of monitoring the Earth's gravity field and applications to geodesy, surveying and oceanography. Invited speech to the conference «Satellite Geodesy: Modern systems and applications». Surveying Department, Technical Educational Institute of Athens, May 26th 2010.
- [49b] Vergos GS, Tziavos IN (2010) On the combined adjustment of tide gauge, marine geoid and sea surface topography towards the unification of the Greek vertical datum. Presented at the 2010 EGU General Assembly, Session G14 “Recent Development in Geodetic Theory”, May 2nd-4th, Vienna, Austria.

2011

- [50b] Mertikas SP, Andersen OA, Daskalakis A, Tziavos IN, Vergos GS, Zervakis V (2011a) Local Reference Surface Models for Calibrating Jason-2 at Gavdos. Presented at the 5th Coastal Altimetry Workshop, October 16-18, San Diego, California.
- [51b] Mertikas SP, Daskalakis A, Andersen OA, Tziavos IN, Vergos GS, Zervakis V (2011b) Recent Results for Jason-2 altimeter bias using the Gavdos Cal/Val Facility. Presented at the Ocean Surface Topography Science Team Meeting, October 19-21, San Diego, California.
- [52b] Vergos GS, Tziavos IN (2011) An investigation of the common adjustment between GPS, geoid and orthometric heights in a network of BMs in northern Greece with the recent GOCE-based GGMs and local geoid models. Presented at the 2011 EGU General Assembly, Session G14 “Recent Development in Geodetic Theory”, April 3rd-8th, Vienna, Austria.
- [53b] Tziavos IN, Vergos GS, V.N. Grigoriadis, D.A, Natsiopoulos (2011) Mean sea surface and geoid models in the Aegean Sea. Presented at the XXV General Assembly of the IUGG, Session U08 “Global and Regional Sea Level Change”, June 28th – July 7th, Melbourne, Australia.

2012

- [54b] Anastasiou D, Gaifillia D, Katsdourou A, Kolyvaki E, Papanikolaou X, Gianniou M, Vergos GS, Pagounis V (2012) First validation of the Hellenic vertical datum as a prerequisite for the efficient disaster and resources management: the “Elevation” project. Presented at the FIG Commission 3 “Spatial Information” conference, December 10th-14th, 2012, Athens, Greece.
- [55b] Contadakis M.E., Arabelos D.A., Vergos GS (2012) TEC variations over North-western Balkan Peninsula before and during the seismic activity of 24th May 2009. Presented at the 2012 EGU General Assembly, Session NH4.5 “Electro-magnetic phenomena and connections with seismo-tectonic activity”, April 22nd-27th, Vienna, Austria.
- [56b] Grigoriadis VN, Kotsakis C, Tziavos IN, Vergos GS (2012) Estimation of the geopotential value W_0 for the local vertical datum of continental Greece using EGM08 and GPS/leveling data. Presented at the IAG Commission 2 “Gravity, Geoid and Height Systems GGHS2012” conference, October 9th-12th, Venice, Italy.
- [57b] Mertikas SP, Daskalakis A, Andersen OA, Tziavos IN, Vergos GS, Zervakis V (2012a) Steep Bathymetry Changes in the Coastal Region South of Gavdos and their Relation to the Altimeter Bias of Jason-2. Presented at the European Space Agency “20 Years of progress in radar altimetry” Conference, September 24th-29th, Venice, Italy.
- [58b] Mertikas SP, Daskalakis A, Tziavos IN, Vergos GS, Andersen OA, Zervakis V (2012b) Altimetry and Bathymetry trends around the coastal zone of Gavdos permanent Cal/Val Facility. Presented at the 6th Coastal Altimetry Workshop, September 20th-21st, Riva del Garda, Italy.
- [59b] Mertikas SP, Daskalakis A, Zhou X, Tziavos IN, Andersen OA, Chen Y.Q., Vergos GS, Zervakis V (2012c) Latest results for the determination of absolute bias for Jason-2 and HY-2 satellites using the Gavdos & Crete Cal/Val permanent facilities. Presented at the European Space Agency “20 Years of progress in radar altimetry - Ocean Surface Topography Mission 2012” Conference, September 24th-29th, Venice, Italy.
- [60b] Tocho C, Vergos GS, Pacino MC (2012) Evaluation of the latest GOCE/GRACE derived Global Geopotential Models over Argentina and contribution to W_0 determination. Presented at the IAG Commission 2 “Gravity, Geoid and Height Systems GGHS2012” conference, October 9th-12th, Venice, Italy.
- [61b] Tzanou EA, Vergos GS (2012a) Determination of the hydrological properties of a small-scale catchment area in Northern Greece from ASTER and SRTM DEMs and accuracy assessment with a local DTM. Presented at the 2012 EGU General Assembly, Session HS2.4 “Hydrology

and remote sensing for monitoring, modelling and improve the management of urban and rural water systems”, April 22nd-27th, Vienna, Austria.

- [62b] Tzanou EA, Vergos GS (2012b) The impact of recent high-resolution global digital elevation models to the determination of basin hydrological properties. An application to Northern Greece. Presented at the 32nd European Association of Remote Sensing Laboratories (EARSel) Symposium “Advances in Geosciences”, May 21-24, Myconos, Greece.
- [63b] Tzanou EA, Vergos GS, Vergos SG (2012) Assessing forest fire risk and fire propagation in the area of Valia Calda, National Park of North Pindos, Greece. Presented at the 32nd European Association of Remote Sensing Laboratories (EARSel) Symposium “Advances in Geosciences”, May 21-24, Myconos, Greece.
- [64b] Vergos GS (2012a) Student Internship program at the RSE/AUTH. Experiences and potential for the future. Invited talk at the TEI Athens “Role of the Internship Program in the RSE profession: Experiences and Prospects” conference, December 11th-12th, Athens, Greece.
- [65b] Vergos GS (2012b) Student Internship program at the RSE/AUTH and student mobility. Presented at the “50 Years of RSE/AUTH” Day, KE.D.E.A. Building, AUTH, Devenber 14, 2012, Thessaloniki.
- [66b] Vergos GS, Arabelos D.A., Contadakis M.E. (2012) Evidence for Tidal triggering on the earthquakes of the Hellenic Arc, Greece. Presented at the 2012 EGU General Assembly, Session SM5.4/NH4.6 «Time-dependent earthquake occurrence and seismic hazard: physics and statistics”, April 22nd-27th, Vienna, Austria.
- [67b] Vergos GS, Natsiopoulos DA (2012) Ocean remote sensing altimetric satellites in support of sea level anomalies and mean sea surface modeling. Presented at the 32nd European Association of Remote Sensing Laboratories (EARSel) Symposium “Advances in Geosciences”, May 21-24, Myconos, Greece.
- [68b] Vergos GS, Natsiopoulos DA, Tziavos IN (2012) Sea level anomaly and dynamic ocean topography analytical covariance functions in the Mediterranean Sea from ENVISAT data. Presented at the European Space Agency “20 Years of progress in radar altimetry” Conference, September 24th-29th, Venice, Italy.
- [69b] Vergos GS, Grigoriadis VN, Tziavos IN, Kotsakis C (2012) Evaluation of GOCE/GRACE Global Geopotential Models over Greece with collocated GPS/Levelling observations and local gravity data. Presented at the IAG Commission 2 “Gravity, Geoid and Height Systems GGHS2012” conference, October 9th-12th, Venice, Italy.
- [70b] Vergos GS, Tziavos IN (2012a) Assessment of the recent GOCE/GRACE earth geopotential models over a network of collocated GPS/Levelling benchmarks in Greece. Presented at the 2012 EGU General Assembly, Session G4.2 “Satellite Gravimetry: GRACE, GOCE and Future Gravity Missions”, April 22nd-27th, Vienna, Austria.
- [71b] Vergos GS, Tziavos IN (2012b) A first outlook of GOCE contribution to the determination of the dynamic ocean topography and ocean circulation in the Mediterranean Sea. Presented at the 2012 EGU General Assembly, Session G4.2 “Satellite Gravimetry: GRACE, GOCE and Future Gravity Missions”, April 22nd-27th, Vienna, Austria.

2013

- [72b] Alexandridis TK, Alexandrov BG, Monachou S, Kalogeropoulos C, Strati S, Vorobyova L, Bogatova Y, Grigoriadis VN, Vergos GS, Topaloglou C (2013) Monitoring water quality parameters in the marine area of Danube Delta using satellite remote sensing. Presented

at the First International Conference on Remote Sensing and Geoinformation 2013, April 8-10, Paphos, Cyprus.

- [73b] Contadakis M.E., Arabelos D.A., Vergos GS (2013) Testing the recent Santorini seismic activity for possible tidal triggering effect. Presented at the 2013 EGU General Assembly, Session SM3.2 "Earthquake precursors, bioanomalies prior to earthquakes and prediction", April 7th-12th, Vienna, Austria.
- [74b] Katsadourou A, Vergos GS, Tziavos IN (2013) Mean dynamic ocean topography determination from recent GOCE/GRACE geopotential models and satellite altimetry data. Presented at the 2013 EGU General Assembly, Session G4.2 "Satellite Gravimetry: GRACE, GOCE and Future Gravity Missions", April 7th-12th, Vienna, Austria.
- [75b] Kolyvaki E, Vergos GS, Tziavos IN (2013) GRACE induced mass changes over continental and marine areas and correlations with rain-gauge data and oscillation indexes. Presented at the 2013 EGU General Assembly, Session G3.2 "Determination of Mass Transport and Distribution in the Earth System", April 7th-12th, Vienna, Austria.
- [76b] Mertikas SP, Daskalakis A, Peng H, Tziavos IN, Zhou X, Vergos GS, Zervakis V, Andersen OB (2013a) Latest Results for the absolute calibration of Jason and HY-2 satellites using the Gavdos/Crete permanent calibration facility. Presented at the 2013 Ocean Surface Topography Science Team (OSTST) Meeting, October 8-11, Boulder CO, USA.
- [77b] Mertikas SP, Daskalakis A, Tziavos IN, Andersen OB, Vergos GS, Zervakis V (2013b) Bathymetry changes sensed with altimetry at the Gavdos permanent Cal/Val facility. Presented at the First International Conference on Remote Sensing and Geoinformation 2013, April 8-10, Paphos, Cyprus.
- [78b] Mertikas SP, Daskalakis A, Tziavos IN, Andersen OB, Vergos GS, Zervakis V (2013c) Steep bathymetry changes close to the coast as sensed with altimetry at the Gavdos permanent Cal/Val facility. Presented at the ESA Living Planet Symposium 2013, September 9-13, Edinburgh, United Kingdom.
- [79b] Mertikas SP, Zervakis V, Tserolas P, Tziavos IN, Andersen OA, Daskalakis A, Vergos GS (2013d) Analysis of Sea Level Trends with Altimetry around the coastal zone of Gavdos permanent Cal/Val Facility. Presented at the ESA 7th Coastal Altimetry Workshop, October 7-8, Boulder CO, USA.
- [80b] Natsiopoulou A, Vergos GS, Tziavos IN (2013) On the determination of EVISAT SLA analytical covariance functions and correlation with climate indexes. Presented at the 2013 EGU General Assembly, Session G1.1 "Recent developments in geodetic theory", April 7th-12th, Vienna, Austria.
- [81b] Tocho C, Vergos GS, Pacino MC (2013) Preliminary estimation of the geopotential value WO for value WO the Local Vertical Datum of Argentina using EGM2008 and GPS/Levelling data. Presented at the 2013 IAG Scientific Assembly, Session 2.6 "Unification of Height Systems", September 1st-6th, Potsdam, Germany.
- [82b] Tziavos IN, Vergos GS, Grigoriadis VN, Tzanou EA, Natsiopoulou DA (2013) *External calibration/validation of ESA's GOCE mission and contribution to DOT and SLA determination using a stochastic approach* - The GOCESeaComb Project. Presented at the 2013 EGU General Assembly, Session G4.2 "Satellite Gravimetry: GRACE, GOCE and Future Gravity Missions", April 7th-12th, Vienna, Austria.
- [83b] Tziavos IN, Vergos GS, Grigoriadis VN, Tzanou EA, Natsiopoulou DA (2013b) Validation of GOCE/GRACE satellite only and combined global geopotential models over Greece, in the frame of the GOCESeaComb Project. Presented at the 2013 IAG Scientific Assembly, Session 2.2 "Global Gravity Field Models", September 1st-6th, Potsdam, Germany.

- [84b] Tziavos IN, Vergos GS, and the ECO-Satellite Team (2013) Development of a WebGIS-based monitoring and environmental protection and preservation system for the Black Sea: The ECO-Satellite project. Presented at the 2013 EGU General Assembly, Session OS2.2 “Advances in understanding of the multi-disciplinary dynamics of the Southern European Seas (Mediterranean and Black Sea)”, April 7th-12th, Vienna, Austria.

2014

- [85b] Andritsanos VD, Vergos GS, Grigoriadis VN, Pagounis V, Tziavos IN (2014) Spectral characteristics of the Hellenic vertical network - Validation over Central and Northern Greece using GOCE/GRACE global geopotential models. Presented at the 2014 EGU General Assembly, Session G4.2 “Satellite Gravimetry: GRACE, GOCE and Future Gravity Missions”, April 27th - May 2nd, Vienna, Austria.
- [86b] Barzaghi R, Albertella A, Cazzaniga NE, Bonvalot S, Bruinsma A, Lequentrec-Lalancette MF, Tziavos IN, Vergos GS, Grigoriadis VN (2014) Estimating Geoid and Sea Surface Topography in the Mediterranean Sea. Presented at the 3rd International Gravity Field Service (IGFS) General Assembly (IGFS 2014), June 30-July 6, 2014, Shanghai, China.
- [87b] Contadakis ME, Arabelos DA, Vergos GS, Spatalas S (2014a) TEC variations over Mediterranean before and during the strong earthquake (M=6.2) of 12th October 2013 in Crete, Greece. Presented at the 2014 EGU General Assembly, Session NH4.3 “Electro-magnetic phenomena and connections with seismo-tectonic activity”, April 27th - May 2nd, Vienna, Austria.
- [88b] Contadakis ME, Arabelos DA, Vergos GS, Spatalas S (2014b) Variation of the Earth tide-seismicity compliance parameter during the recent seismic activity of Fthiotida, Greece. Presented at the 2014 EGU General Assembly, Session SM3.2/NH4.4 “Earthquakes Short-term Prediction and Dynamic Assessment of Seismic Hazard”, April 27th - May 2nd, Vienna, Austria.
- [89b] Grebenitcharsky RS, Vergos GS, Piretzidis D, Tziavos IN (2014) GOCE gradient downward continuation for local/regional gravity field recovery. Presented at the 5th GOCE User Workshop, November 24-29, Unesco, Paris, France.
- [90b] Mertikas SP, Daskalakis A, Tziavos IN, Vergos GS, Peng H, Zhou X, Qiao F, Zervakis V (2014a) Latest absolute calibration results for Jason-2 and HY-2 satellites using the Gavdos/Crete permanent calibration facilities. Presented at the 2014 Ocean Surface Topography Science Team (OSTST) Meeting, October 28-31, Lake Constance, Germany.
- [91b] Mertikas SP, Daskalakis A, Tziavos IN, Vergos GS, Zervakis V (2014b) Absolute calibration of the SARAL/ALTIKA satellite altimeter using the permanent facility on Gavdos, Greece. Presented at the SARAL/AltiKa workshop, October 27, Lake Constance, Germany.
- [92b] Mertikas S, Daskalakis A, Tziavos IN, Vergos GS (2014c) Absolute Calibration of SARAL/AltiKa in Gavdos. Presented in the 2014 SARAL International Science and Applications Meeting, 22 - 24 April 2014, Ahmedabad, India.
- [93b] Mertikas S, Daskalakis A, Tziavos IN, Vergos GS, Zervakis V (2014d) Deep Bathymetry Changes sensed by satellite altimeters around the coastal zone of Gavdos/Crete permanent Satellite Calibration Facility. Presented in the SPIE Remote Sensing 2014 Conference, 22 - 25 September 2014, Amsterdam, The Netherlands.
- [94b] Natsiopoulou VD, Vergos GS, Tziavos IN (2014) Modeling the barotropic response of the Mediterranean sea level to atmospheric pressure forcing. Presented at the 2014 EGU General Assembly, Session OS2.2 “Advances in understanding of the multi-disciplinary

dynamics of the Southern European Seas (Mediterranean and Black Sea)", April 27th - May 2nd, Vienna, Austria.

- [95b] Peidou A and Vergos GS (2014a) GOCE GGM analysis through wavelet decomposition and reconstruction and validation with GPS/Leveling data. Presented at the 2014 EGU General Assembly, Session G4.2 "Satellite Gravimetry: GRACE, GOCE and Future Gravity Missions", April 27th - May 2nd, Vienna, Austria.
- [96b] Peidou A and Vergos GS (2014b) Wavelet multi-resolution analysis of recent GOCE/GRACE GGMs. Presented at the 3rd International Gravity Field Service (IGFS) General Assembly (IGFS 2014), June 30-July 6, 2014, Shanghai, China.
- [97b] Tocho CN and Vergos GS (2014a) Evaluation of GOCE/GRACE GGMs over Argentina with GPS/Leveling and gravity anomaly data. Presented at the 3rd International Gravity Field Service (IGFS) General Assembly (IGFS 2014), June 30-July 6, 2014, Shanghai, China.
- [98b] Tocho C, Vergos GS (2014b) Estimation of the geopotential value W_0 for the local vertical datum of Argentina using EGM08 and GPS/levelling data. Presented at the XXVII Scientific Meeting of the Argentinean Association of Geophysics and Geodesy (AAGG2014), November 10-14, San Juan, Argentina.
- [99b] Vergos GS, Andritsanos VD, Grigoriadis VN, Pagounis V, Tziavos IN (2014) Evaluation of GOCE/GRACE GGMs over Attika and Thessaloniki, Greece, and W_0 determination for height system unification. Presented at the 3rd International Gravity Field Service (IGFS) General Assembly (IGFS 2014), June 30-July 6, 2014, Shanghai, China.
- [100b] Vergos GS, Grigoriadis VN, Tziavos IN, Natsiopoulou DA, Tzanou EA (2014) GOCE/GRACE GGM evaluation over Greece with GPS/Leveling and gravity data. Presented at the 5th GOCE User Workshop, November 24-29, Unesco, Paris, France.
- [101b] Vergos GS, Natsiopoulou DA, Tziavos IN, Grigoriadis VN, Tzanou EA (2014) DOT and SLA stationary and time-varying analytical covariance functions for LSC-based heterogeneous data combination. Presented at the 2014 EGU General Assembly, Session G1.1 "Recent developments in geodetic theory", April 27th - May 2nd, Vienna, Austria.

2015

- [102b] Barzaghi R, Albertella A, Carrion D, Bruinsma A, Bonvalot S, Lequentrec-Lalancette MF, Bonnefond P, Vergos GS, Tziavos IN, Grigoriadis VN, Knudsen P, Andersen O, Simav M, Hasan Y, Basic T, Gil AJ (2015) The GEOMED 2 project: a high resolution geoid of the Mediterranean Sea. Presented at the 2015 IUGG General Assembly, Session G02 "Static Gravity Field Models and Observations", June 22 – July 2, Prague, Czech Republic.
- [103b] Contadakis ME, Arabelos DA, Vergos GS, Spatalas S (2015a) Variation of the Earth tide-seismicity compliance parameter the last 50 years for the west site of the Aegean Volcanic Arc, Greece. Presented at the 2015 IUGG General Assembly, Session S07a "S07a Seismic Hazard and Risk: Frontiers in Seismic Hazard Assessment", June 22 – July 2, Prague, Czech Republic.
- [104b] Contadakis ME, Arabelos DA, Vergos GS, Spatalas S, Skeberis Ch (2015b) Variation of the Earth tide-seismicity compliance parameter the last 50 years for the seismic area of Evoikos, Greece. Presented at the 2015 EGU General Assembly, Session SM3.1/NH4.3 "Earthquakes Short-term Prediction and time-Dependent Assessment of Seismic Hazard (t-DASH)", April 12th – 17th, Vienna, Austria.
- [105b] Grebenitcharsky RS, Vergos GS, Piretzidis D, Tziavos IN (2015) Combination of GOCE SGG data and surface gravity anomalies for local/regional geoid determination. Presented at the

2015 IUGG General Assembly, Session G02 “Static Gravity Field Models and Observations”, June 22 – July 2, Prague, Czech Republic.

- [106b] Mertikas S, Tziavos IN, Galanakis D, Frantzis X, Vergos GS, Tripolitsiotis A, Andersen O (2015) Jason-1, Jason-2, SARAL/AltiKa and HY-2 altimeter calibrations over a decade at the Gavdos/Crete Cal/Val sites. Presented at the 2015 Ocean Surface Topography Science Team Meeting, Session "Regional and Global CAL/VAL for Assembling a Climate Data Record", October, 19-23 2015, Reston, VA, USA.
- [107b] Natsiopoulou VD, Vergos GS, Tziavos IN (2014) Modeling the response of the Mediterranean sea level to global and regional climatic phenomena. Presented at the 2015 IUGG General Assembly, Session G08 “Sea-Level Observation and Modelling”, June 22 – July 2, Prague, Czech Republic.
- [108b] Peidou AC and Vergos GS (2015) Spectral improvements of recent GOCE GGMs through spatial selective filtering using wavelet-based multi-resolution approximation. Presented at the 2015 IUGG General Assembly, Session G02 “Static Gravity Field Models and Observations”, June 22 – July 2, Prague, Czech Republic.
- [109b] Tocho C, Vergos GS, Piñon D (2015) Wo determination for Argentinean height system unification. Presented at the 2015 IUGG General Assembly, Session G06 “Unified Height System”, June 22 – July 2, Prague, Czech Republic.
- [110b] Tziavos IN, Vergos GS, Andritsanos VD, Grigoriadis VN, Pagounis V (2015) GOCE/GRACE GGM evaluation over Attika and Thessaloniki, Greece and local geoid modeling in support of height unification. Presented at the 2015 IUGG General Assembly, Session G02 “Static Gravity Field Models and Observations”, June 22 – July 2, Prague, Czech Republic.

2016

- [111b] Altiparmaki OA, Natsiopoulou DA Vergos GS (2016) SLA determination in coastal areas using Least-Squares Collocation and Cryosat data. Presented at the GGHS2016 Joint Section 2 and IGFS Symposium “Gravity, Geoid and Height System 2016”, September 19-23, Thessaloniki, Greece.
- [112b] Andritsanos VD, Grigoriadis VN, Vergos GS, Gruber T, Fecher T (2016) GOCE variance and covariance contribution to height system unification. Presented at the GGHS2016 Joint Section 2 and IGFS Symposium “Gravity, Geoid and Height System 2016”, September 19-23, Thessaloniki, Greece.
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15.4 Thesis

- [1d] Vergos GS (2000) The contribution of satellite altimetry to gravity field modeling – A case of study in the Eastern Mediterranean Sea. Diploma thesis, Department of Geodesy and Surveying, School of Rural and Surveying Engineering, Faculty of Engineering, Aristotle University of Thessaloniki, June 2000.
- [2d] Vergos GS (2002) Sea Surface Topography, Bathymetry and Marine Gravity Field Modeling. MSc Theses Dissertation, Submitted to the Faculty of Graduate Studies in Partial Fulfillment for the Degree of Master of Science, Department of Geomatics Engineering, University of Calgary, UCGE Report 20157, February 2002.
- [3d] Vergos GS (2006) Study of the Earth's Gravity Field and Sea Surface Topography in Greece by combining surface data and data from the new satellite missions of CHAMP and GRACE. PhD Dissertation, Department of Geodesy and Surveying, School of Rural and Surveying Engineering, Faculty of Engineering, Aristotle University of Thessaloniki, January 2006.

15.5 Project Reports²

2002

- [1e] Vergos GS, Sideris MG (2002) Sea Surface Topography and Marine Gravity Field Modeling. Final Report to the GEOIDe NCE ENV#13 (The synergistic use of multi-sensor remote sensing for monitoring of the Earth's surface and atmospheric parameters) Project Leader, February 2002.
- [2e] Vergos GS, Tziavos IN (2002) Marine Geoid Modeling and Topographic, Bathymetric and Gravimetric Database Generation. Mid-Term report in the frame of the EU-Sponsored GAVDOS Project.
- [3e] Vergos GS, Tziavos IN and the AUTH Team (2002a) Marine Geoid and Gravity Field Modeling and Topographic, Bathymetric and Gravimetric Database Generation. 1st Semi-annual Coordination Meeting of the GAVDOS Team.
- [4e] Vergos GS, Tziavos IN and the AUTH Team (2002b) Accurate Marine Geoid Determination and Gravity Database Generation. 1st Annual Coordination Meeting of the GAVDOS Team.

2003

- [5e] Vergos GS, Tziavos IN and the AUTH Team (2003a) High-accuracy and high-resolution marine and land gravity database generation and data validation. 2nd Year Semi-Annual Coordination Meeting of the GAVDOS Team.
- [6e] Vergos GS, Tziavos IN and the AUTH Team (2003b) High-accuracy and high-resolution marine and land gravity database generation and data validation. 2nd Annual Coordination Meeting of the GAVDOS Team.

2004

- [7e] Vergos GS, Tziavos IN and the AUTH Team (2004a) Sea Surface Topography and sea circulation determination in Gavdos. 3rd Year Semi-Annual Coordination Meeting of the GAVDOS Team.
- [8e] Vergos GS, Tziavos IN and the AUTH Team (2004β) Geoid modeling, Sea Surface Topography and current velocity determination in Gavdos. 3rd Annual Coordination Meeting of the GAVDOS Team.

2006

- [9e] Tziavos IN, Vergos GS, Nikou N, Patrikis V (2006) Measurement of a trigonometric network and surveying of a forest road with GPS. EPEAEK II, "ENVIRONMENT - ARCHIMIDES: Support to Scientific Teams in TEI", Giaxoudi Publications.

2008

- [10e] Tziavos IN, Vergos GS (2008) Modeling and interpretation of the Earth's gravity field in local and regional scale through terrestrial and satellite data combination. Final Project report submitted to the Ministry of Education under the program ΕΠΕΑΕΚ II «Pythagoras II – Support to Research Teams in the Universities».





² All published project reports are available through the GAVDOS web page (<http://www.gavdos.tuc.gr>).

15.6 Course Notes

- [1f] [Vergos GS, Katsougiannopoulos S \(2003\) Application of the Global Positioning System \(GPS\). Lecture Notes. Department of Geo-informatics and Surveying, TEI Serron.](#)
- [2f] [Vergos GS, Katsougiannopoulos S \(2003\) Application of the Global Positioning System \(GPS\). Lab Notes. Department of Geo-informatics and Surveying, TEI Serron.](#)

15.7 Citation to scientific work

1454 citations to the scientific work from other scientists (*does not include co-authored papers*) with a cumulative h-index 21 και i10-index 42 (10.2025).

 [F-2209-2011](#),  [0000-0003-2475-2568](#),  [Georgios S Vergos](#),  [GSVergos Scholar](#)

	All	Since 2020
Citations	1454	726
h-index	21	12
i10-index	42	18

