
Prof. Dr. Tiberiu Rus
Technical University of Civil Engineering, Bucharest, Romania

General information

Tiberiu Rus
Bucharest, Romania
B-dul Lacul Tei 122-124, 020396 Bucharest, Romania
Sex - Male | Date of birth - 28/07/1967 | Nationality-Romanian

Fields of Research

Business or sector Teaching and research in geodesy

Honours and Memberships

Member of

- Member of IAG Commission 3 - „Earth Rotation and Geodynamics, Subcommission 3.2 „Crustal Deformation”, Permanent Working Group „Geodynamics of the Central Europe”;
- Member of FIG –Subcommission “Positioning Systems”(2007-2010);
- Member of EUPOS International Steering Committee;
- Secretary of Romanian National Committee for Geodesy and Geophysics;
- Director of Research Centre on Space Geodesy, Photogrammetry, Remote Sensing and GIS (GEOS)
- Member of Romanian Geodesists Union; president of Commission 3 –Positioning(2010-2018);
- Member of Romanian Society of Photogrammetry and Remote Sensing;
- Member of Scientific Committee of SGEM – International Multidisciplinary Scientific GeoConferences (2013-present);
- Member of Professor’s Council –Faculty of Geodesy;

-
- Member of the organizing committee of 6 national and international symposia;
 - Member of different evaluation committees for GNSS hardware and software at National Agency for Cadastre and Land Registration (2004-2010).

Education and Qualifications

25 May 2009 –29 May 2009	Training in operation of RTK-DGNSS software / Leica Spider software National Agency for Cadastre and Land Registration / SC Leica Geosystems (Swiss), SC Topgeocart SRL Bucharest
24 March 2009 –29 March 2009	Training in operation of GNSS Leica GRX1200 GGPRO equipments and Leica Spider software National Agency for Cadastre and Land Registration / SC Topgeocart SRL Bucharest
24 March 2008 –25 March 2008	Training in GNSS permanent station operation / PHARE RO 2006/018-147.02.02.02 contract National Agency for Cadastre and Land Registration / SC Topgeocart SRL Bucharest
23 February 2007 –24 February 2007	Training in GNSS data processing(Topcon software) National Agency for Cadastre and Land Registration / GEODIS Brno, Czech Republic
September 2000	GPS data processing in the CERGOP (Central Europe Regional Geodynamic Project) -CEGRN network observed in 1999 (Bernese 4.2 software) Federal Agency for Cartography and Geodesy - Frankfurt a.M., Germany(EC Contract No. CIPA-CT-94-0114)
Sept.1997 –Feb.1998	Certificateas specialist in GPS data processing using CODE (Center for Orbit Determination in Europe) and IGS (International GPS Service) standard software -Bernese

	Federal Agency for Cartography and Geodesy - Frankfurt a.M., Germany (EC Contract No. CIPA- CT-94-0114)
March 1997 –April 1997	Certificate as specialist in geoid modelling using gravimetric, digital terrain models and GPS data Department of Navigation and Positioning, Technical University Graz, Austria (Tempus grant)
October 1994 -July 2000	PhD Thesis called Studies and Researches in the Precise Geodetic Positioning using Satellite Systems (Modern methods for geoid determination) PhD degree at Faculty of Geodesy, Technical University of Civil Engineering Bucharest
May 1992 –September 1992	Diploma Thesis entitled “Introduction in GPS Surveying” in the framework of TEMPUS project, May - September 1992. Geodetic Institute, Technical University of Hannover, Germany (Tempus grant)
1987 –1992	Geodetic Engineer Faculty of Geodesy, Technical University of Civil Engineering Bucharest –Romania

Computers Programming

- Pascal, FORTRAN, HTML, Perl

Operating Systems Experience

- DOS, Microsoft WINDOWS, & WINDOWS NT, WINDOWS XP; WIN7
- SCO UNIX, HP Unix, Linux;

GPS Software Packages Experience

- Bernese (4.0-4.2-5.0) -CODE (Center for Orbit Determination in Europe) and IGS (International GPS Service for Geodynamics) standard software;
- GPSurvey (2.20,2.35); TGO (1.0), TTC(2.50)-GPS Software (Trimble, USA);
- GrafNav/GrafNet (6.02-6.03) -GPS Software (Waypoint Inc., Canada).
- GPPS -GPS Post-Processing Software (Ashtech Inc., USA);
- GPSBase -GPS Permanent Station Software (Terrasat, Germany/ Trimble, USA);
- Leica GeoOffice, Leica Ski Pro (Leica, Swiss)
- Spider Software –GPS Permanent Station Software (Leica, Swiss);
- Spectrum Survey (Sokkia, Japan);
- Geonap -GPS Software (GeoSpace-Geo++, Germany);
- Topcon Tools, Topcon NET(RSN) (Topcon, USA)
- Trimble Business Centre (TBC) (Trimble, USA)

GPS Permanent Station Systems Design and Analysis

- Installation, maintenance and development of EUREF and IGS GPS permanent station "Bucu" located at the Technical University of Civil Engineering Bucharest since 1999 (first GPS permanent station in Romania); Design and implementation of Romanian National GNSS Permanent Network (2004-2010);

GNSS equipments experience:

- Trimble (USA), Ashtech (USA), Leica (Swiss), Novatel (Canada), Garmin (USA), Topcon (Japan)

Professional experience

February 2004 –October 2010

Head Geodesy Department

- Responsible for the modernization of National Geodetic Network, mainly by implementation of GNSS technology, European and ISO standards; National and international projects management;

National Agency for Cadastre and Land Registration (NACLAR) – Directorate of Geodesy and Cartography, Bucharest, Romania

October 2011 –present

Director of GEOS – Research Centre on Space Geodesy, Photogrammetry, Remote Sensing and GIS at Faculty of Geodesy – TUCE Bucharest

October 2015 -present

Associate professor, PhD

- Lectures, seminars, projects and practical work in the field of Space geodesy, Physical Geodesy, Navigation and GPS/INS, Geophysics and Geodynamics

October 2000 -2015

University Lecturer

- Lectures at Space Geodesy discipline;
- Lectures at Physical Geodesy discipline;
- Seminars and practical training in the field of Space Geodesy, Geodesy, Physical Geodesy.

February 1997 –September 2000

University Assistant

▪ Seminars and practical training in the field of
Geodesy, Gravimetry, Satellite Geodesy;

September 1992 –May 1995

Supplying Assistant

▪ Seminars and practical training in the field of Topography and Cadaster;

Faculty of Geodesy Department of Geodesy and Photogrammetry Technical University of Civil Engineering of
Bucharest, 124 Lacul Tei Boulevard, sector 2, Bucharest, Romania.

Research work

1993 -“Research Studies About GPS in Engineering Surveying”, 25th Scientific Session -
Romanian Military Academy, Bucharest;

1994 -“Introduction in GPS Surveying, TEMPUS Final Symposium, Techn. Univ. of Civil
Engineering, Bucharest;

1994-“Detection of Recent Vertical Crustal Movements in the Carpathian Arc by
GPS”, Perelmuter Workshop on Dynamic Deformation Models, Haifa, Israel;

1995 -“Data Basis and Mathematical Programming in GIS, JEC Conference, La Hague;

1995-“Comparative Study in Local Geoid Determination in Vrancea Region”, GPS Technology
Applications Symposium, Bucharest;

1995 -“GPS Observations in Crustal Movements Network from Nehoiu Seismic Region”, GPS
Technology Applications Symposium, Bucharest;

1995-“Theoretical and Practical Concepts Regarding GPS Permanent Station Establishment”,
GPS Technology Applications Symposium, Bucharest;

1996-“An Overview of GPS Activities in Romania”, WELL GIS’96 Conference, Budapest, Hungary;

1996-“Methods to Determine Ambiguities in the Case of EDM and GPS Observations”, Geodesy
and Cadastre Revue, Bucharest;

1997-“Data Evaluation of the CEGRN97 GPS Campaign at BKG Processing Centre”, 8th CEI
CERGOP Working Conference, Warsaw, Poland;

1997-“German and Romanian Activities in the Frame of the CERGOP (Central European
Geodynamic Project)” -Technical Report, Federal Agency for Cartography and Geodesy,
Frankfurt a.M., Germany;

1998 -“Plate Kinematics Studies in Romania Using GPS”, G16 Symposium -Geodetic and
Geodynamic Achievements of the CEI, EGS98, XXIII General Assembly, Nice, France

1999 -“GPS continuously operating reference stations network in Romania-present and
future Developments” -G16 Symposium, Trieste, Italy.

2001 -“Data Evaluation of the CEGRN-99 GPS Campaign at the BKG Processing Center”, EGS G9
Symposium, 25-30 March, Nice, France;

2001 -“ Kinematic GPS Applications for Aerotriangulation”, IAG 2001 Symposium, 2-7
September, Budapest, Hungary.

2003 -Rus T., Neuner J., GPS Activities at “Bucu” GPS Permanent Station, 4th EPN LAC
Workshop, 18-19 September, 2003, Graz, Austria;

2004-Rus T., Neuner J., Experiments to Estimate D-GNSS Accuracy, Reports on Geodesy, Warsaw
University of Technology, Institute of Geodesy and Geodetic Astronomy, Poland;

-
- 2005–“Romanian National GPS Permanent Stations Network”, GEOCAD’05, International Symposium, 5-6 May 2005, Alba-Iulia, Romania
- 2005 -“Statistic Analysis of geodetic observations” , UTCB Scientific Bulletin, no.1 / 2005
- 2005–“Study Concerning D-GNSS real time positioning”, UTCB Scientific Bulletin, no.1 / 2005
- 2006 –“National Report of the CERGOP2 Project”, EGU2006 Symposium, April 2006, Vienna, Austria
- 2006 –“Aspects of GNSS technologies applications for naval traffic monitor GEOCAD’05, International Symposium, 3-5 May 2006, Alba-Iulia, Romania
- 2006–“Eupos ISC, EUPOS IRC –National Report” , EUPOS International Steering Committee Meeting, 21-24 Nov.2006, Budapest, Hungary
- 2006-(Editor), Geodynamic Studies in Romania –Vrancea Zone, Monograph compiled in the frame of the Project CERGOP-2 Environment, Reports on Geodesy, Warsaw University of Technology, Institute of Geodesy and Geodetic Astronomy, No.6 (81), 2006
- 2006–“EUPOS National Report”, Eupos ISC and EUPOS IRC Conference, 21-24 Nov.2006,Budapest, Hungary
- 2007–“ Status of the Romanian GNSS Network”, 2nd Annual Transportation& Logistic Conference For CEE, 7th February 2007, Bucharest, Romania
- 2007–“EUPOS National Report”, Eupos ISC and EUPOS IRC Conference, 27-30 March, 2007,Riga, Latvia
- 2007 –““IAG National Report on Geodetic and Geophysical Activities 2003-2006”, XXIVth IUGG General Assembly, Perugia, 2-13 July 2007
- 2007–“EUPOS National Report”, Eupos ISC and EUPOS IRC Conference, 18-21 September, 2007,Vilnius, Lithuania
- 2007–“Geodetic Monitoring for Support of Geodynamic Investigations –IndegenProject”, International Symposium On Strong Vrancea Earthquakes And Risk Mitigation, T. Rus, J. Neuner, C.Moldoveanu, C. Marcu, V. Danciu , A.Ilieş, P. Dumitru, A. Călin, D. Vasilca,October 4-6, 2007, Bucharest
- 2008–“Actual contributions to geodynamic research in Romania”, T.Rus, C.Moldoveanu, V.Danciu, international symposium GeoCAD08, Alba Iulia, 09-10 may 2008
- 2008-“New insights on the structure and dynamics of the intermediate-depth seismic zone located in the bending area of east Carpathians: INDEGEN project”, Lucian Besutiu, Ligia Atanasiu, Horia Mitrofan, Luminita Zlagnean, Mircea Radulian, Mihaela Popa, Maria Rogoza, Gavril Sabau, Maria Negulescu, Albert Baltres, Tiberiu Rus, Valentin Danciu, Constantin Moldoveanu, Johan Neuner, 33rd International Geological Congress, 6-14 August 2008, Oslo, Norway
- 2009-„Results of geodetic investigations for geodynamics inRomania”, Monograph, IGAR, EditorL.Besutiu; Rus T., Neuner J., Moldoveanu C., Marcu C., Danciu V., Dumitru P., Călin A .
- 2009-“Algorithm for direct and inverse coordinate transformation between ETRS89 CRS and S-42 CRS”,Avramiuc N., Dragomir P., Rus T, International symposium, “Present developments in Cadastre”, Alba Iulia, Romania, 7-9 May 2009
- 2009-„Satellite and Terrestrial Geodetic Methods in Support of Geodynamic Investigations”, Rus T., Neuner J., Moldoveanu C., Marcu C., Danciu V., Dumitru P., Călin A., International Experts Meeting On Carpathian Geodynamic Network, 19 -21 November 2009, Bucharest, Romania
- 2009 -“ROMPOS for Cadastre Applications”, Rus T., Dragomir P., Avramiuc N., Dumitru P., Fădur M.,Sorta V., International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications 2009, Berlin, Germany, 30 November –2 December 2009

-
- 2009-“National Report of Romania”, Rus T., 15th Conference of the International EUPOS® Steering Committee and 7th Meeting on EUPOS® WG on System Quality, Integrity and Interference Monitoring (SQII), Tallinn, Estonia, 28-29 April 2009
- 2009 -“National Report of Romania”, Rus T., 16th Conference of the International EUPOS® Steering Committee, 8th Meeting on EUPOS® WG on System Quality, Integrity and Interference Monitoring (SQII), and 3rd EUPOS TCI Meeting, Berlin, Germany, 28 Nov.-3 Dec. 2009
- 2010-“EVRF2007 as Realization of the European Vertical Reference System (EVRS) in Romania”, Dragomir P., Rus T., Avramiuc N., Dumitru P., International Symposium GeoCAD08, Alba Iulia, 09-10 May 2010
- 2010-“Romanian Position Determination System –ROMPOS”, Busuioc M., Rus T., Dragomir P., Avramiuc N., Dumitru P., Fădur M., Sorta V, United Nations/Moldova/United States of America Workshop on the Applications of Global Navigation Satellite Systems, 17-21.05.2010, Chişinău, Rep. Moldova
- 2010-“National Report of Romania”, Rus T., 17th Conference of the International EUPOS® Steering Committee, 9th Meeting on EUPOS® WG on System Quality, Integrity and Interference Monitoring (SQII), 27-28.05.2010, Novi Sad, Serbia
- 2010 – “Draft of the Technical Normative Regarding the Realization of the National Spatial Geodetic Network and the Implementation of the ETRS89 in Romania”, Dragomir P., Rus T., Avramiuc N., National Conference – Modern Technologies for IIIrd Millenium, 8th Edition, Oradea, 2010
- 2011-“Current status and future of the GNSS network in Romania”, Danube Information Services Conference ‘11“, November 9th-10th 2011 Bucharest, Romania
- 2012-“Considerations on the State of Romanian National Geodetic Network”, T. Rus., C. Moldoveanu, V. Danciu, International Symposium GeoCAD08, Alba Iulia, May 2012
- 2012 -Aspects of geodetic practice in the area of Vrancea Geodynamic Micropolygon, T. V. Danciu, T. Rus., C. Moldoveanu, International Symposium GeoCAD08, Alba Iulia, May 2012
- 2012 –“Data processing possibilities for repeated measurements”, C. Moldoveanu, V. Danciu, T. Rus., International Symposium GeoCAD08, Alba Iulia, May 2012
- 2013-“Geodesy Contribution to the Danube WATER Project, T. Rus., C. Moldoveanu, V. Danciu, I. Kaltchev, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, 16-22 June 2013, Albena Co., Bulgaria (pp.205-213)
- 2013-Study concerning estimation of planimetric position and determination of the accuracy in case of extrapolation, 1st European Conference of Geodesy & Geomatics Engineering GENG '13, Antalya, Turkey, October 8-10, 2013, Recent Advances in Geodesy and Geomatics Engineering – Conference Proceedings, ISSN 2227-4359 / ISBN 978-960-474-335-3, Antalya, October 8-10, 2013
- 2014 -V. Danciu, C. Moldoveanu, T. Rus., “Fuzzy Functions for Digital Terrain Model” 14th SGEM GeoConference on Informatics, Geoinformatics And Remote Sensing, SGEM2014 Conference Proceedings, ISBN 978-619-7105-11-7 / ISSN 1314-2704, June 17-26, 2014, Vol. 2, 205-213 pp, DOI:10.5593/SGEM2014/B22
- 2014 -T. Rus., C. Moldoveanu, V. Danciu, I. Kaltchev, “Development of Coordinates conversion and Transformation Standards for the Danube Water Project” 14th SGEM GeoConference on Informatics, Geoinformatics And Remote Sensing, SGEM2014 Conference Proceedings, ISBN 978-619-7105-11-7 / ISSN 1314-2704, June 17-26, 2014, Vol. 2, 205-213 pp, DOI: 10.5593/SGEM2014/B22
- 2015-“Geodetic Observations in Support of Izvoarele –Galaţi Phenomena”, T. Rus., C. Moldoveanu, V. Danciu, International Symposium GEOPREVI 2015, Bucharest, 8-9 May 2015

2015 -T. Rus., C. Moldoveanu, V. Danciu, *GEODETIC ACHIEVEMENTS FOR THE DANUBE WATER PROJECT*, 15th International Multidisciplinary Scientific Geoconference SGEM 2015, VOL.II, p.261-269, 18-24 June 2015, Albena Co., Bulgaria

2015 -V. Danciu, T. Rus., C. Moldoveanu, *STUDY ON ACHIEVING A QUASIGEOID*, 15th International Multidisciplinary Scientific Geoconference SGEM 2015, VOL.II, p.463-470, 18-24 June 2015, Albena Co., Bulgaria

2016 -M. Plopeanu, C. Moldoveanu, T. Rus, V. Danciu, A.S. Ilie, *PRACTICAL USE OF THE ELECTRONIC COMPENSATOR (INTEGRATED IN THE ELECTRONIC TOTAL STATION) IN GEODETIC METROLOGY APPLICATIONS*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, www.sgem.org, SGEM2016 Conference Proceedings, ISBN 978-619-7105-59-9 / ISSN 1314-2704, June 28 -July 6, 2016, Book2 Vol. 2, 495-502 pp, DOI: 10.5593/SGEM2016/B22/S09.064

2016 -T. Rus, C. Moldoveanu, V. Danciu, A. Iliescu, *GEODETIC ACTIVITIES FOR GEODYNAMIC INVESTIGATIONS IN VRANCEA AREA*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, www.sgem.org, SGEM2016 Conference Proceedings, ISBN 978-619-7105-59-9 / ISSN 1314-2704, June 28 -July 6, 2016, Book2 Vol. 2, 321-328 pp, DOI: 10.5593/SGEM2016/B22/S09.041

2017 -T. Rus, V. Danciu, C. Moldoveanu, A. Iliescu, C. Cristea, *RECENT GEODETIC ACTIVITIES IN VRANCEA AREA FOR GEODYNAMIC INVESTIGATIONS-VRAGEO PROJECT*, 17th International Multidisciplinary Scientific Geoconference SGEM 2017, Conference Proceedings, Vol.17, p.539-548, 25 June -5 July 2017, Albena Co., Bulgaria, ISBN 978-619-7408-02-7 / ISSN 1314-2704, 10.5593/sgem2017/22/S09.059

2017 -T. Rus, A.S. Ilie, C. Moldoveanu, V. Danciu, M. Plopeanu, *PROCEDURES FOR CHECKING THE GNSS EQUIPMENT*, 17th International Multidisciplinary Scientific Geoconference SGEM 2017, Conference Proceedings, Vol.17, p.469-476, 25 June -5 July 2017, Albena Co., Bulgaria, ISBN 978

2017-2018

Project manager: *Services for the determination of transformation parameters between geodetic reference systems used on the Danube joint sector between Romania and Bulgaria and the provision of calculation algorithm and transformation parameters (contract no.220/2017)*

Beneficiary: River Administration of the Lower Danube

2014-2017

Project responsible(TUCEB): *VRAGEO - Integrated Seismic Hazard Information Platform For Vrancea Region Surveillance Through Advanced Geospatial And In-Situ Methodologies, Partnerships Program - Applied Research Projects -Competition 2013, Priority area 3-Environment, Research direction 3.4.6. Natural and technological hazards; researches on risk assessment and impact studies.(contract no.86/2/2014)*

Beneficiary: UEFISCDI (Ministry of Research)

2012 -2015

Project manager: *Supervising the project "Creating a support system on the Danube*

2012 -2013	<p><i>basin in order to ensure minimum navigation depths " (project POST / 2012/3/2/011).</i></p> <p>Beneficiary: AFDJ RA Galati (Romanian Danube River Administration)</p> <p>Geodesy expert: <i>"Integrated WATER Resources Management of the Danube River", CodeMIS-ETC 161</i></p> <p>Beneficiary: Ministry of Environment and Climate Change</p>
2009 -2010	<p>Technical project manager: <i>"GNSS data sharing with neighboring countries (Bulgaria , Hungary, Serbia, Ukraine)"</i></p> <p>Beneficiary: NACLR Bucharest– National Agency for Cadastre and Land Registration</p>
2009 -2010	<p>Responsible Working Group: <i>"Implementation of ETRS89 (European Terrestrial Reference System 1989) in Romania"</i></p> <p>Beneficiary: NACLR Bucharest (M.I.R.A.)</p>
2007 -2010	<p>Technical project manager: <i>"Achievement ROMPOS (The Romanian Position Determination System) integrated in the EUPOS (European Position Determination System)"</i></p> <p>Beneficiary: NACLR Bucharest (M.I.R.A.)</p>
2004-2010	<p>Coordinator/ Executor: <i>"Romanian National Spatial Geodetic Network modernization" - Head of Geodesy Department</i></p> <p>Beneficiary: NACLR Bucharest (M.I.R.A.)</p>
2004-2008	<p>Coordinator/ Executor: <i>"Achieving of GNSS National Network of Romania"</i></p> <p>Technical project manager: <i>"PHAREtwinning project –ANCPI (Romania) / Kadaster (Olanda)</i></p>
2006 -2008	<p>Beneficiary: NACLR Bucharest (M.I.R.A.)</p> <p>Project manager: <i>"Integrated research on earthquake genesis at intracontinentale intermediate depth Vrancea zone (INDEGEN)"</i></p> <p>Beneficiary: Institute of Geodynamics of the Romanian Academy</p>
2005-2007	<p>Participant: <i>"Intelligent Topo-hydrographic system for improved river navigation on the Romanian Danube sector (SITRAD)"</i></p> <p>Beneficiary: GeoEcoMar Bucharest, INTERGIS SRL Bucharest</p>
2004 -2005	<p>Coordinator/ Executor: <i>"Romanian GPS National geodetic network integration into the EUREF network"</i></p> <p>Beneficiary: NACLR Bucharest (M.I.R.A.)</p>
2004 -2006	<p>Participant: <i>"Airborne data recording and processing of spatial topographic(SADT-01)"</i></p>

2004 -2006	Beneficiary: Romanian Space Agency, IAROM SA Bucharest, AEROSTAR SA Bacau Technical director: <i>“Studies on the development of a national system of assessment and differential corrections data transmission using GPS technology (STCD)”</i>
2004 -2007	Beneficiary: Romanian Space Agency, IAROM SA Bucharest, AEROSTAR SA Bacau Representative: <i>“EUPOS project -Satellite positioning technology implementation in Romania by creating a network of satellite receiver stations “</i>
2004 -2007	Beneficiary: NACLR Bucharest (M.I.R.A.) National representative: <i>“CERGOP project - Geodynamic studies in Central Europe” (13 countries participating) -coordinating activities in Romania</i>
2003	Beneficiary: NACLR Bucharest (M.I.R.A.) Representative: <i>“Pilot project implementation / EUREF-IP transmission of differential GPS corrections in Romania.”</i>
2002	Beneficiary: TUCEB and Federal Agency for Geodesy and Cartography (Germany) Project manager: <i>“Studies and systems for Romania’s participation in GNSS-Galileo program (ESA –European Commission)”</i>
2002	Beneficiary: Romanian Space Agency, IAROM SA Bucharest, AEROSTAR SA Bacau, Intergis Grup SRL Bucharest.
2002	Participant: <i>“Checking GPS data processing for World Bank in the Constanta county”</i>
2001	Beneficiary: Geonet SRL Targoviste. Executor: <i>“Processing GPS data recorded for aero triangulation projects”</i>
2000	Beneficiary: A.C.A.D.A. SRL Bucharest. Participant: <i>“Processing satellite data from observations campaigns CEGRN”99 within CERGOP project at BKG Frankfurt”</i>
1999-present	Beneficiary: TUCEB and Federal Agency for Geodesy and Cartography (Germany). GNSS perm. station administrator: <i>“Establishment of the first Romanian GPS permanent station integrated in EUREF and IGS networks”</i>
1998	Beneficiary: TUCEB and Federal Agency for Geodesy and Cartography (Germany). Participant: <i>“Processing GPS cinematic observation for digital photogrammetry – photogrammetric camera embarked on a</i>

1997/1998	plane (photogrammetric fly over the Bucharest city for digital maps” Beneficiary: Finsiel S.R.L. Bucharest Participant: “Processing GPS static observation from CEGRN”97 campaigns observation (Central European Geodynamic Regional Network)” Beneficiary: Federal Agency of Geodesy and Cartography (Germany).
1997	Participant: “GPS terrestrial observation in the CEGRN network” Beneficiary: Romanian Ministry for Research and Federal Agency for Geodesy and Cartography (Germany).
1996	Participant: “GPS observation tests for connecting airport to the EUREF” Beneficiary: Romanian Civil Aeronautical Administration
1995/1996	Participant: “Earth’s rotation parameters determination based on GPS observations” Beneficiary: Romanian Astronomic Observation Academy
1994	Participant: “ The establishment of reference system Black Sea 1975 in Danube Delta” Beneficiary: AQUA – Project S.A.
1993	Participant: “Crustal movements in Vrancea area; The integration of GPS, Gravimetric and Leveling data” Beneficiary: Romanian Academy - Institute of Geodynamics
1992	Participant: “The implementation of GPS technology within the Faculty of Geodesy” Beneficiary: TUCEB, T.U. Hannover – Germany; The Cadaster Agency of Denmark