

CURRICULUM VITAE

RUI MANUEL da SILVA FERNANDES

SERPINS
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Name: Rui Manuel da Silva Fernandes.

Date of birth: 13, April, 1967.

Nationality: Portuguese.

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Academic degrees, fields of study, awarding institutions, dates

- Ph.D., Earth's Sciences, Delft University of Technology, December 2004.
- Equivalence to Master of Sciences, Applied Mathematics (Least Squares Method), University of Beira Interior, July 1996.
- Licentiate's degree, Surveying Engineering, Faculty of Science and Technology - University of Coimbra, December 1990.

Present positions, institutions, starting date

- Assistant Professor, University of Beira Interior, Covilhã, Portugal, December 2004
- Guest Assistant Professor, University of Coimbra, Portugal, February 2006.
- Associated Researcher, Center of Geophysics of University of Lisbon, Institute of Geophysics D. Luís, Lisbon, February 2005.
- Research Scientist, Delft Institute for Earth Observation and Satellite Systems, Delft, The Netherlands, December 2004.

Previous positions, institutions, dates

- Ph.D. Student, Delft University of Technology, March 1999 – December 2004.
- Assistant, University of Beira Interior, July 1996 – December 2004.
- Trainee Assistant, University of Beira Interior, February 1991 - July 1996.

Main scientific area of research

Sciences of the Earth and Space – Geodynamics, Positioning using space technologies, Reference Frames.

Other scientific areas of interest

Computer sciences. Programming with C, Delphi and Fortran.

Technologies of Information. Geographical Information Systems.

Languages:

Portuguese	Native
English	Excellent
French	Average
Spanish	Basic
German	Basic
Dutch	Basic

Professional and Scientific Affiliations:

Portuguese Engineering Order, Surveying College, n.º 34591.

European Geophysical Society.

American Geophysical Union.

Topics taught at University level (Courses):

- Physical Geodesy (Surveying Engineering).
- Geometric Geodesy (Surveying Engineering).
- Topography (Civil Engineering).
- Computer Aided Design (Civil Engineering).
- Data Bases (Master in GIS, Economics).
- Programming [Pascal and C] (several courses of Engineering).
- Algorithms (Production and Management Engineering).
- Languages for WEB (Multimedia Design).
- Project (Computer Sciences Engineering).

Practical experience in the area of expertise:

- Responsible for the implementation of the new fundamental geodetic network of East-Timor in 2005. This network consists of 8 geodetic pillars, adapted for space geodetic observations, distributed by the entire country.
- Consultant of UNMISSET – United Nations Mission of Support in East Timor between May and July of 2003. He managed locally the installation, observation, and processing of the GPS network created in the East Timor territory to delineate the terrestrial border between this country and Indonesia. Later, he provided the East Timor solutions and he estimated the final solutions for the coordinates of this network referred to the International Terrestrial Reference Frame (ITRF2000) (obtained by combining the East Timor and Indonesian solutions). He also computed solutions for the observations carried out by joint teams in the border.
- Responsible of the official Local Analysis Center (LAC) of the European Reference Network (EUREF) Permanent Network in the Department of Earth Observation and Space Systems (DEOS), Delft University of Technology, The Netherlands since February 2001. He implemented the necessary methodologies and he currently manages the processing (using the GIPSY software package) and submission of the weekly solutions for a permanent GPS sub-network, mainly located in the Iberian Peninsula.
- Responsible for the daily processing of about 140 GPS stations for geodynamic and reference frame studies. The processed sub-networks are located in Iberia, Africa (South Africa mainly) and Azores, and a global one for mapping purposes.
- Installation and management of several permanent GPS stations:
 - Faial, Azores, Portugal (October, 1999);
 - Terceira, Azores, Portugal (October, 2000);
 - Pico, Azores, Portugal (July, 2006);
 - Coimbra, Portugal (February, 2006);
 - Luanda, Angola (July, 2000);
 - Nampula, Mozambique (April, 2006);
 - São Tomé, São Tomé e Príncipe (October, 2006).
- Responsible for several GPS campaigns in the Azores Archipelago carried out in 1999, 2000, 2001, 2003, and 2006, where he managed the densification of an initial network (9 sites) by installing a total of 48 new sites (27 in 1999 and 21 in 2001, respectively) in the Central Group.

- Collaboration with the Instituto de Investigação Científico Tropical (Portugal) in a project in Mozambique, carrying out GPS measurements in the Beira region during three weeks in November 2000.
- Surveying of the old cathedral of Cidade Velha, island of Santiago, Cabo Verde, October 1999, in collaboration with the University of Beira Interior.
- Surveying of sensors in C-130 aircrafts for the Portuguese Air Force, October 1999, in collaboration with AOUP.
- Development of software to process integrated GPS/Inertial observations to survey road networks, in collaboration with AOUP.
- Member of the surveying team of the archeological site of Troja, Turkey, between 12th July and 31st August, 1993.
- Practical training (4 months – 8th March to 30 June 1990) in an Engineering Project Office, in Frankfurt-am-Main, Germany, in the area of terrestrial photogrammetry.

Current Scientific Projects:

- EUREF – Analysis Center of European Reference Frame Permanent Network (Coordinator of Local Analysis Center of DEOS, Delft, The Netherlands).
- GOMA – GNSS Observations in MAroc, scientific bilateral project between Portugal (University of Beira Interior, Covilhã) and Morocco (Institut Agronomique et Vétérinaire Hassan II) (Principal Investigator).
- TRANSFER – Tsunami Risk AND Strategies For the European Region (Principal Investigator: Stefano Tinti [Univ. de Bolonha]; Portuguese Principal Investigator: Jorge Miguel Miranda [FCUL]), FP6.
- SWITNAME - Tectonic Numerical and Analogue Modelling of SW Iberia (Principal Investigator: Luis Matias [FCUL]), FCT.
- KARMA - Kinematics And Rheological Modelling of the Nubian-Eurasian plate boundary in the Azores (Principal Investigator: João Catalão [FCUL]), FCT.

Previous Scientific Projects:

- ESPERG – Permanent GNSS station in S. Tomé e Príncipe (Principal Investigator), IPAD.

- SARAÇORES - Partição da Deformação no Eixo dos Açores a partir da Utilização da Interferometria SAR (Principal Investigator: José Miguel Miranda [FCUL]), FCT.
- SNAP – Sistema de Navegação Aérea de Precisão de Longo Alcance utilizando DGPS em Tempo Real (Principal Investigator: Luísa Bastos [FCUP]), FCT.
- RIMAR – Riscos Naturais Associados a Variações do Nível do Mar (Principal Investigator: Alveirinho Dias [Univ. Algarve]), FCT.
- STAMINA -Study of the Tectonic And Magmatic Interplay in the Azores (Principal Investigator: José Miguel Miranda [FCUL]), FCT.
- TANGO – TransAtlantic Network for Geodynamics and Oceanography, (Principal Investigator: Luísa Bastos [FCUP]), FCT.
- RGFTL – Rede Geodésica Fundamental de Timor–Leste (Principal Investigator: João Matos [IST]), IPAD.
- Extended-TANGO – Extension of TANGO project (Principal Investigator), DEOS (Holanda).

Publications

Theses:

Present-day kinematics at the Azores-Gibraltar plate boundary as derived from GPS observations, DUP, Delft, The Netherlands, ISBN 90-407-2557-8, December 2004.

Utilização de Métodos Sequenciais e Passo a Passo na Resolução de Problemas Geodésicos, UBI, Covilhã, September 1995 (*in portuguese*).

Sistema ELCOVISION10 - descrição e aplicações, pp. 106, FCTUC, Coimbra, Dezembro 1990 (*in portuguese*).

Articles in international reviewed scientific journals (first author):

Fernandes; R.M.S.; J.M. Miranda, B.M.L. Meijninger, M.S. Bos, R. Noomen, L. Bastos, B.A.C. Ambrosius, R.E.M. Riva, Surface Velocity Field of the Ibero-Maghrebian Segment of the Eurasia-Nubia Plate Boundary, *Geophysical Journal International*, accepted for publication, 2006.

Fernandes; R.M.S.; L. Bastos, J.M. Miranda, N. Lourenço, B.A.C. Ambrosius, R. Noomen, and W. Simons, Defining the Plate Boundaries in the Azores Region, *Journal of Volcanology and Geothermal Research*, 156, 1-9, doi:10.1016/j.jvolgeores.2006.03.0192006, 2006.

Fernandes, R.M.S., L. Bastos, B.A.C. Ambrosius, R. Noomen, S. Matheussen, and P. Baptista, Recent geodetic results in the Azores Triple Junction region, *Pure and Applied Geophysics*, 161(3), 683–699, doi:10.1007/s00024-003-2469-y, 2004.

Fernandes, R. M. S., B. A. C. Ambrosius, R. Noomen, L. Bastos, , L. Combrink, J. M. Miranda, and W. Spakman, Angular velocities of Nubia and Somalia from continuous GPS data: implications on present-day relative kinematics, *Earth and Planet. Sci. Lett.*, 222, 197–208., doi:10.1016/j.epsl.2004.02.008, 2004.

Fernandes, R.M.S., B.A.C. Ambrosius, R. Noomen, L. Bastos, M.J.R. Wortel, W. Spakman, and R. Govers, The relative motion between Africa and Eurasia as derived from ITRF2000 and GPS data, *Geophys. Res. Lett.*, 30(16), 1828, doi:10.1029/2003GL017089, 2003.

Fernandes, R.M.S., J.M. Miranda, J. Catalão, J.F. Luis, L. Bastos, and B.A.C. Ambrosius, Coseismic Displacements of the MW=6.1, July 9, 1998, Faial Earthquake (Azores, North Atlantic), *Geophys. Res. Lett.*, 29(16), doi:10.1029/2001GL014415, 2002.

Fernandes; R.M.S.; L. Bastos, J.M. Miranda, N. Lourenço, B.A.C. Ambrosius, R. Noomen, and W. Simons, Defining the Plate Boundaries in the Azores Region, *Journal of Volcanology and Geothermal Research*, accepted for publication, 2003.

Bos, M.S., R.M.S. Fernandes, S.D.P. Williams, and L. Bastos, Fast error analysis of continuous GPS observations, *J. of Geodesy*, submitted for publication, 2006.

Combrink, A.Z.A., R.M.S. Fernandes, M.S. Bos, W.L. Combrinck, and C.L. Merry, Using GPS-derived PWV time-series to monitor South African meteorological trends, *Annales Geophysicae*, submitted for publication, 2006.

Navarro, A., J. Catalão, J.M. Miranda, and R.M.S. Fernandes, Estimation of the Terceira Island (Azores) main strain rates from GPS data, *Earths, Planets and Space*, 55, 637-642, 2003.

Articles in proceedings of international scientific conferences (first author):

Fernandes, R.M.S., L. Combrinck, A.Z.A. Combrink, H. Khalil, C.M. Kamamia, A. Al Aydrus, J.M. Miranda, and L. Bastos, Present-day Tectonics of the Eastern Margin of Africa, Abstract Book of 21st Colloquium of African Geology, pp 46-47, Maputo, Moçambique, 04-06 July 2006.

Fernandes, R.M.S.; M.S. Bos, and L. Bastos, Mapping of active deformation regions in Europe using the EPN network, *Geophysical Research Abstracts*, 8, 05313, 2006.

Fernandes, R.M.S.; N. Lourenço, J.M. Miranda, L. Bastos, B.A.C. Ambrosius, R. Noomen, and W. Spakman, Present-day Azores Triple Junction configuration based on geodetic measurements and elastic dislocation models, *Geophysical Research Abstracts*, 7, 07299, 2005.

Fernandes, R.M.S., B.A.C. Ambrosius, R. Noomen, L. Bastos, and M. Becker, Mapping of GPS Networks Into ITRF: Regional Versus Global Approach, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract G21B-04, December 2004.

Fernandes, R.M.S, L. Combrinck, B.A.C. Ambrosius, R. Noomen, W. Spakman and J.M. Miranda, Geodynamics of Africa from continuous GPS data: application to geodynamics, *Proceedings of IUGG 2003*, Sapporo, Japan, G05/04A/C25-005, A.247, 4 July 2003.

Fernandes, R.M.S, L. Combrinck, B.A.C. Ambrosius, R. Noomen, L. Bastos, W. Spakman and J. Sucure, Geodynamics of Africa from continuous GPS data: analyses and implications, *Geophysical Research Abstracts*, 5, 07725, EGS-AGU-EUG Joint Assembly, Nice, April 2003.

Fernandes, R.M.S., L. Bastos, B.A.C. Ambrosius, R. Noomen, W. Simons, J.M. Miranda and W. Spakman, Defining the plate boundaries in the Azores region, *Electronic publication of the proceedings of 11th General Assembly of the Wegener Project*, Athens, Greece, June, 2002.

Fernandes, R.M.S., L. Bastos, B. Ambrosius, J. Osório, and P. Baptista, The TANGO99 GPS campaign: Description and results, in *Proceedings of 2nd Assembly Portuguese-Spanish of Geodesy and Geophysics*, Lagos, Portugal, pp. 35–36, 2000.

Fernandes, R., B. Ambrosius, L. Bastos, R. Noomen, J. Osório and P. Baptista, Behavior of the Eurasian, North American and African plates in the Azores region, *Extended Abstracts Book of the 10th General Assembly of the WEGENER project*, San Fernando, Spain, 2000.

Fernandes, R., B. Ambrosius, L. Bastos, R. Noomen and J. Dávila, Analysis of a permanent GPS Iberian Network (GIN), *Extended Abstracts Book of the 10th General Assembly of the WEGENER project*, San Fernando, Spain, 2000.

Fernandes R., P. Baptista e L. Bastos, Análise da dinâmica crustal recente no Arquipélago dos Açores pelo uso de observações GPS, *Proceedings da I Assembleia Luso-Espanhola de Geodesia e Geofísica*, Almeria, Spain, 1998.

Gutscher M.A., S. Dominguez, R.M.S. Fernandes, and J.M. Miranda, Seafloor deformation in the Gulf of Cadiz and GPS data indicate active WSW motion of the Gibraltar arc, *Geophysical Research Abstracts*, 8, 04487, 2006.

A.Z.A. Combrink, R.M.S. Fernandes, M.S. Bos, W.L. Combrinck, C.L. Merry, Monitoring of PWV over South Africa using GPS, *Geophysical Research Abstracts*, 8, 05592, 2006.

Matias, L.; Ribeiro, A.; Zitellini, N.; Miranda, J.M.; Baptista, M.A.; Teves-Costa, P.; Terrinha, P.; Cabral, J.; and Fernandes, R.M.S. (2005) The Tagus Valey seismic hazard and the 1755 earthquake: a critical review. 250th Anniversary of the 1755 Lisbon earthquake.

Miranda, J.M., R.M.S Fernandes, and L.M. Matias, Geodetic constraints to the evaluation of the Tagus Valley seismic risk, *Geophysical Research Abstracts*, 7, 10248, 2005.

Navarro, A., J. Catalão, R.M.S. Fernandes, J.M. Miranda and L. Bastos, The Terceira Island (Azores) Crustal Deformations from GPS Data, *Geophysical Research Abstracts*, 5, 10082, EGS-AGU-EUG Joint Assembly, Nice, April 2003.

Articles in national journals:

Bastos, L., P. Tomé, S. Cunha, J. Gonçalves e R. Fernandes, Mapeamento de Redes Viárias: Utilização de um sistema GPS/INS na actualização de um SIG, *Ingenium*, 2ª Série, nº 44, pág. 75-79, Jan 2000.

Articles in proceedings of national scientific conferences:

Fernandes R.M.S., L. Bastos, B.A.C. Ambrosius, R. Noomen, L. Combrinck, J.M. Miranda, W. Spakman, J. Sucure, Análise da cinemática actual do continente africano a partir de uma rede GPS de estações permanentes, in *Cartografia e Geodesia 2005 - Actas da IV Conferência Nacional de Cartografia e Geodesia*, J. Casaca and J. Matos (Eds.), 972-757-370-3, pp. 607-616, 2005.

Fernandes R.M.S., D. Fahrurrazi, J. Matos, and Y. Sri Handoyo, The common border datum reference frame (CBDRF) between Indonesia and Timor-Leste: Implementation and processing, in *Cartografia e Geodesia 2005 - Actas da IV Conferência Nacional de Cartografia e Geodesia*, J. Casaca and J. Matos (Eds.), 972-757-370-3, pp. , 2005.

Fernandes R. M. S., L. Bastos, J. M. Miranda, B. A. C. Ambrosius, N. Lourenço, R. Noomen and P. Baptista, *Análise dos movimentos tectónicos no Arquipélago dos Açores usando observações GPS*, in *Cartografia e Geodesia*, Actas da III Conferência Nacional de Cartografia e Geodesia, Aveiro, December, ed. L. Bastos and J. Matos, Lidel, ISBN 972-757-330-4, pp. 86-96, 2004.

Fernandes, R.M.S., W. Simons, B. Ambrosius, and L. Bastos, Análise de diferentes metodologias no processamento de campanhas GPS, in *Actas da II Conferência Nacional de Cartografia e Geodesia*, pp. 92–99, IPCC, Luso, Portugal, in *Portuguese*, 2000.

Bos, M.S., L. Bastos, and R.M.S. Fernandes, Atmospheric Loading at Portuguese GPS Stations, in *Cartografia e Geodesia 2005 - Actas da IV Conferência Nacional de Cartografia e Geodesia*, J. Casaca and J. Matos (Eds.), 972-757-370-3, pp. 487-494, 2005.

Baptista, P., R. Fernandes, L. Bastos, C. Bernardes e J. Dias, Aplicação de técnicas GPS na monitorização de processos de erosão costeira, in *Actas da II Conferência Nacional de Cartografia e Geodesia*, pp. , IPCC, Luso, Portugal, in *Portuguese*, 2000.

Presentations in scientific conferences (first author)

(since 1999)

Fernandes, R.M.S., A.Z.A. Combrink, J.M. Miranda, L. Combrink, R.E.M. Riva, Sensing the 22 February 2006 Mozambique Earthquake using high-rate GPS observations, XIII Assembly of Wegener, Nice, 4-7 September 2006.

Fernandes, R.M.S., S. Mahmoud, and L. Combrinck, AFREF site selection: interaction with other scientific and technical applications, AFREF Workshop, Cape Town, South Africa, 11 July 2006.

Fernandes, R.M.S., L. Combrinck, A.Z.A. Combrink, H. Khalil, C.M. Kamamia, A. Al Aydrus, J.M. Miranda, and L. Bastos, Present-day Tectonics of the Eastern Margin of Africa, 21st Colloquium of African Geology, Maputo, Moçambique, 04 July 2006.

Fernandes, R.M.S.; M.S. Bos, and L. Bastos, Mapping of active deformation regions in Europe using the EPN network, General Assembly 2006, European Geosciences Union, Vienna, 02-07 April 2006.

Fernandes, R.M.S., J.L. Matos, P. Xavier, L. Gézero, RGF^{TL}, the new fundamental geodetic network of Timor-Leste, V Assembleia Luso Espanhola de Geodesia e Geofísica, Seville, Spain, 31 January 2006.

Fernandes, R.M.S., J.M. Miranda, L. Bastos, Analysis of the surface velocity field derived from continuous GPS data in the Ibero-Maghrebian region, V Assembleia Luso Espanhola de Geodesia e Geofísica, Seville, Spain, 30 January 2006.

Fernandes, R.M.S., A. Combrink, L. Combrinck, L. Bastos, and J.M. Miranda, GPS constraints on the Nubia-Somalia plate boundary, International Conference on the East African Rift System – EAR05, Mbeya, Tanzania, 16 August 2005.

Fernandes, R.M.S.; N. Lourenço, J.M. Miranda, L. Bastos, B.A.C. Ambrosius, R. Noomen, and W. Spakman, Present-day Azores Triple Junction configuration based on geodetic measurements and elastic dislocation models, General Assembly 2005, European Geosciences Union, Vienna, 28 April 2005.

Fernandes, R.M.S., B.A.C. Ambrosius, R. Noomen, L. Bastos, and M. Becker, Mapping of GPS Networks Into ITRF: Regional Versus Global Approach, AGU Fall Meeting, San Francisco, U.S.A., 13 December 2004.

Fernandes, R.M.S., B.M.L. Meijninger, R. Noomen, B.A.C. Ambrosius, and L. Bastos, Present-Day Kinematics of the Alboran Domain: a contribution from space-geodesy, VMSG Symposium, Delft, The Netherlands, November 10, 2004.

R.M.S. Fernandes, B.A.C. Ambrosius, R. Noomen, L. Bastos, L. Combrink, J.M. Miranda, W. Spakman, and J. Sucure, Present-day kinematics of the Africa continent from permanent GPS data, 12th General Assembly of the WEGENER project, Tangier, Morocco, 23 September 2004.

Fernandes, R.M.S., N. Lourenço, L. Bastos, J.M. Miranda, B.A.C. Ambrosius, Ron Noomen, and Wim Spakman, Assessment of a dislocation model for the Azores plate boundary, 12th General Assembly of the WEGENER project, Tangier, Morocco, 21 September 2004.

R.M.S. Fernandes, B.M.L. Meijninger, L. Bastos, B. A. C. Ambrosius, R. Noomen, and Elisa Bufor, GPS constraints on the kinematics of the Iberian Peninsula and North Morocco, 12th General Assembly of the WEGENER project, Tangier, Morocco, 21 September 2004.

Fernandes, R.M.S., L. Bastos, J.M. Miranda, B.A.C. Ambrosius, R. Noomen, L. Combrinck e J. Sucure, Nubia and Somalia: the break-up of the African plate as derived from continuous GPS data, 4ª Assembleia Luso-Espanhola de Geodesia e Geofísica, Figueira da Foz, Portugal, 4 February 2004.

Fernandes, R.M.S., B.A.C. Ambrosius, L. Bastos, J.M. Miranda, R. Noomen, W. Simons, W. Spakman and N. Lourenço, Plate boundaries in the Azores region from GPS observations, VMSG Symposium, Delft, The Netherlands, October 30, 2003 (winning poster).

Fernandes, R.M.S. and B.A.C. Ambrosius, Analysis of the vertical differences between the DEOS and the EPN, Fourth EUREF Local Analysis Centres Workshop, Graz, Austria, September 18-19, 2003.

Fernandes, R.M.S., L. Combrinck, B.A.C. Ambrosius, R. Noomen, W. Spakman and J.M. Miranda, Geodynamics of Africa from continuous GPS data: application to geodynamics, IUGG 2003, Sapporo, Japan, 4 July 2003.

Fernandes R. M. S., L. Bastos, B. A. C. Ambrosius, J. M. Miranda, N. Lourenço, R. Noomen and P. Baptista, Análise dos movimentos tectónicos no Arquipélago dos Açores usando observações GPS, in portuguese, III Conferência Nacional de Cartografia e Geodesia, Aveiro, Portugal, 4 December 2002

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Fernandes, R.M.S., L. Bastos, B.A.C. Ambrosius and R. Noomen, The permanent GPS network in the Iberian Peninsula, XXV EGS General Assembly, Nice, France, 25 April 2002.

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Fernandes, R.M.S., B. Ambrosius, L. Bastos, R. Noomen, W. Spakman and S. Matheussen, Kinematics of the Azores Triple Junction in the frame of Global Plate Tectonics, 3º VMSG Symposium, Utrecht, The Netherlands, 23 November 2001.

Fernandes, R.M.S., The Azores Triple Junction: A Battle of Giants, Progress seminar report, Utrecht, The Netherlands, 26 October 2001.

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Fernandes, R. and B. Ambrosius, Analysis by DEOS of the SW part of the EUREF network, European Permanent Network - 3rd Local Analysis Centres Workshop, Warsaw, Poland, 03 June 2001.

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Fernandes, R., B. Ambrosius, R. Noomen, S. Matheussen and L. Bastos, A new geodetic global tectonic plate model, DEOS97H-NNR, XXV EGS General Assembly, Nice, France, 05 April 2001.

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Fernandes, R., B. Ambrosius, L. Bastos, R. Noomen and J. Dávila, Analysis of a permanent GPS Iberian Network (GIN), 10th General Assembly of the WEGENER project, San Fernando, Spain, 19 September 2000.

Fernandes, R., B. Ambrosius, L. Bastos, R. Noomen, J. Osório and G. Hein, Crustal Motions of the Azores-Gibraltar Region from Eight Years of GPS Observations, XXIV EGS General Assembly, Nice, France, 25 April 2000.

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Fernandes, R., L. Bastos, B. Ambrosius, J. Osório and P. Baptista, The TANGO99 GPS Campaign: Description and Results, 2^a Assembleia Luso-Espanhola de Geodesia e Geofísica, Lagos, Portugal, 11 February 2000.

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Fernandes, R., W. Simons, B. Ambrosius and L. Bastos, Análise de diferentes metodologias no processamento de observações GPS, 2^a Conferência Nacional de Geodesia e Cartografia, Luso, Portugal, 23 September 1999.

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Khazaradze, G., R.M.S. Fernandes, M.S. Bos, E. Suriñach, E. Bosch, and C. Parareda, Investigation of Common Modes in the Iberian GPS network, XIII Assembly of Wegener, Nice, 4-7 September 2006.

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