SHORT CV

Carlos C. DaCamara

BIRTH PLACE AND DATE

Lisboa, Portugal. 14-09-1957

NATIONALITY

Portuguese.

ACADEMIC DEGREES

23/07/1991: Ph.D. degree is recognized by the University of Lisbon, Portugal.

10/01/1991: Doctor of Philosophy (Ph.D) by the University of Missouri-Columbia, USA.

15/10/1981: License ("Licenciatura") in Physics (Geophysics) by the University of Lisbon, Portugal.

23/03/1979: B.Sc. ("Bacharelato") in Physics by the University of Lisbon, Portugal.

June 1975: "Diplôme d'Études Françaises", by the University of Toulouse - Le Mirail, France.

June 1973: "Certificat Pratique de Langue Française", by the University of Toulouse - Le Mirail, France.

PREVIOUS AND CURRENT SCIENTIFIC AND PROFESSIONAL ACTIVITIES

5 Mar 2003 – present: Associate Professor, Faculty of Sciences, University of Lisbon, Portugal.

2009 – 2013: member of the Faculty Assembly, the organ of deliberative nature and supervision of the Facuty of Sciences, University of Lisbon, Portugal.

14 May 2003 – 20 Apr 2004: Vice-president, Instituto de Meteorologia (Portuguese Meteorological Institute).

24 Jul 1991 – 4 Mar 2003: Assistant Professor, Faculty of Sciences, University of Lisbon, Portugal.

5 Dec 1986 – 23 Jul 1991: Assistant, Faculty of Sciences, University of Lisbon, Portugal.

1 Jan 1987 – 31 Jan 1991: Research Assistant, Global Circulation Project, Univ. of Missouri-Columbia, USA.

1 Aug 1982 – 4 Dec 1986 :Assistant "Estagiário", Faculty of Sciences, University of Lisbon, Portugal.

5 Nov 1981 – 31 Jul 1982: High-school Teacher, School of Linda-a-Velha, Lisbon, Portugal.

AREAS OF SCIENTIFIC ACTIVITY

Remote sensing of fire. Fire weather. Fire risk. Land surface temperature retrieval from space. Burnt area recovery. Synoptic climatology. Planetary waves. Droughts. Blocking. Extreme events. Climate variability and climate change.

PRESENT RESEARCH INTERESTS

Algorithms for active fire detection from space and for burned area mapping based on remote-sensing. Directional effects on retrieved Land Surface Temperature from space. Algorithms for estimation of Land Surface Temperature from space. Fire weather. Calibration of indices of meteorological risk of fire. Fire risk in future climate scenarios. Drought monitoring.

SUPERVISING EXPERIENCE

PhD Theses

17. Sofia Nunes Lorena Ermida, Fellowship FCT SFRH/BD/96466/2013, "Harmonization of Remote Sensing Land Surface Products: correction of clear sky bias and characterization of directional effects", FCUL, supervised by Isabel Trigo, Carlos da Camara and Catherine Prigent (ongoing).

16. Virgílio Alexandre da Silva Marques Bento, Fellowship FCT SFRH/BD/52559/2014, "Long-term monitoring of drought episodes and of vegetation stress over Africa and Southern Europe using information from Meteosat First and Second Generation satellites", FCUL, supervised by Carlos da Camara and Isabel Trigo (ongoing).

15. Dulce Filomena Lajas Maria, Fellowship FCT PRAXIS SFRH/BD/2769/2000, "Improving the retrieval of downwelling surface shortwave fluxes using data from geostationary satellites", FCUL, supervised by Carlos da Camara (thesis defense on 31/07/2012).

14. Malik Amraoui, Fellowship FCT SFRH/BD/36964/2007, "Detection and monitoring of active fires in Africa and Europe using MSG-SEVIRI Imagery", UTAD, supervised by Carlos da Camara and José Miguel Pereira (thesis defense on 11/02/2011).

13. Renata Libonati dos Santos, Fellowship FCT SFRH/BD/21650/2005, "Using middle-infrared reflectance for burned area detection", FCUL, supervised by Carlos da Camara and José Miguel Pereira (thesis defense on 28/01/2011).

12. Eurico Vasco Amorim, Fellowship PRODEP III Concurso nº 2/5.3/PRODEP Formação Avançada de Docentes no Ensino Superior Formando nº 5, "Processos de superfície em Portugal Continental: um estudo climatológico baseado em dados de satélite", UTAD, supervised by Carlos da Camara (thesis defense on 16/04/2010).

11. Yannick Lucien Bernard Le Page, Fellowship MRTN-CT-2004-512464, "Anthropogenic and climatic control upon vegetation fires: new insights from satellite observations to assess current and future impacts", ISA, supervised by José Miguel Pereira, Carlos da Camara and Sergey Venevsky (thesis defense on 27/01/2010).

10. Célia Marina Pedroso Gouveia, Fellowship FCT SFRH/BD/32829/2006, "The role of remote sensing in assessing the impact of climate variability on vegetation dynamics in Europe", FCUL, supervised by Ricardo Trigo and Carlos da Camara (thesis defense on 15/12/2008).

9. Margarida da Conceição Rasteiro Magano Lopes Rodrigues Liberato, Fellowship FCT SFRH/BD/32640/2006, "Analysis of the extratropical stratosphere-troposphere circulation coupling using a 3D normal mode approach", FCUL, supervised by José Castanheira and Carlos da Camara (thesis defense on 22/07/2008).

8. Joana Cristina Figueiredo Freire, Fellowship FCT SFRH/BD/13849/2003, "Sinal e ruído climáticos em modelos de circulação atmosférica", FCUL, supervised by Jason Gallas and Carlos da Camara (thesis defense on 01/07/2008).

7. Mônica Cristina Damião Mendes, Fellowship FCT POCTI/BD/8480/2002, "Bloqueios atmosféricos sobre o Hemisfério Sul: diagnóstico, impacto climático e mecanismos físicos associados", FCUL, supervised by Ricardo Trigo and Carlos da Camara (thesis defense on 17/07/2007).

6. Maria Teresa Jorge Mendes Calado, Fellowship FCT PRAXIS XXI/BD/16134/98, "Identification of clouds and burnt surfaces in satellite imagery based on neuro-fuzzy systems", FCUL, supervised by Carlos da Camara and José Miguel Pereira (thesis defense on 21/03/2005).

5. Leonardo de Faria Peres, Fellowship FCT PRAXIS XXI/BD/21566/99, "Land surface temperature and emissivity retrieval using MSG/SERIVI data", FCUL, supervised by Carlos da Camara (completed in 14/03/2005).

4. Mário Jorge Modesto Gonzalez Pereira, Fellowship União Europeia PRODEP 2000, "Climate variability and its impacts on wildfire activity", FCUL, supervised by Carlos da Camara and Solange Leite (thesis defense on 04/03/2005).

3. Mariana Stichini Vilela Hart de Campos Bernardino, "Climate change and drought regimes in Europe", FCUL, supervised by João Corte-Real and Carlos da Camara (thesis defense on 30/06/2004).

2. Edward Peter Dwyer, European Commission's TMR grant, "An analysis of global fire distributions from NOAA-AVHRR data", ISA, supervised by José Miguel Pereira and Carlos da Camara (thesis defense on 14/04/2000).

1. José Manuel Henriques Castanheira, "Climate Variability of Atmospheric Circulation at the Global Scale", supervised by Carlos da Camara and Alfredo Rocha (thesis defense on 03/04/2000).

PARTICIPATION IN RESEARCH AND DEVELOPMENT PROJECTS

17. Co-Investigator and responsible for development of products Fire Detection and Monitoring (LSA-501) Fire Risk Maps (LSA-504) and Burnt Areas (LSA-506) in EUMETSAT "Satellite Application Facility on Land Surface Analysis – Second Continuous Development and Operations Phase (LSA SAF – CDOP-2)". Mar 2012–Feb 2017. Total cost: 9,732,513.00 €.

16. Co-Investigator in Project "Supporting FIRE-suppression strategies combining fire spread modelling and satellite data in an operational context in Portugal (FIRE-MODSAT)", financed by FCT, Portugal (Contract EXPL/AGR-FOR/0488/2013). 01/03/2014-28/02/2015. Total cost: 49.942,00 €

15. Co-Investigator in Project "Long-term socio-ecological research and monitoring in a Mediterranean cultural landscape (LTER Montado)", financed by FCT, Portugal (Contract LTER/BIA-BEC/0048/2009). 28/08/2011-27/02/2015. Total cost: 139.931,40 €

14. Principal Investigator in Project "Fire-Land-Atmosphere Inter-Relationships: understanding the processes to predict wildfire regimes in Portugal (FLAIR)", financed by FCT, Portugal (Contract PTDC/AAC-AMB/104702/2008). 01/01/2010-30/06/2013. Total cost: 182.682,00 €

13. Co-Investigator and deputy leader of working packages WP 1.2 – Fires and climate and WP 4.1 – Data in Large-scale integrating Project “Forest fires under climate, social and economic changes in Europe, the Mediterranean and other fire-affected areas of the world (FUME)’, financed by the European Commission, FP7ENVIRONMENT (EC Project Reference No. FP-7-243888) 01/01/2010-31/12/2013. Total cost: 8,228,226.00 €

12. Co-Investigator and responsible for development of products Fire Detection and Monitoring (FD&M) and Fire Risk Maps (FRM) in EUMETSAT “Satellite Application Facility on Land Surface Analysis – Continuous Development and Operations Phase (LSA SAF - CDOP)”. Mar 2007–Feb 2012. Total cost: 7,900,000.00 €.

11. Scientific Coordinator of EUMETSAT “Satellite Application Facility on Land Surface Analysis – Initial Operations Phase (LSA SAF - IOP)”, involving 7 institutes from 6 European countries. Jan 2005–Feb 2007. Total cost: 3,900,000.00 €.

10. Co-Investigator in Integrated Project “GMES products & services, integrating EO monitoring capacities to support the implementation of European directives and policies related to ‘land cover and vegetation’ (geoland)”, financed by the European Commission, FP6 (EC Proposal Reference No. FP-6-502871) 01/01/2004–31/03/2007. Total cost: 17,010,078.00 €

9. Scientific Coordinator of EUMETSAT “Satellite Application Facility on Land Surface Analysis – Development Phase (LSA SAF - DP)”, involving 13 institutes from 8 European countries. Jun 1999–Dec 2004. Total cost: 4,300,000.00 €.

8. Consultant in Project “Daily forecasts of river flow for Mondego”, financed by REN - Rede Eléctrica Nacional, S.A., Portugal. 2002-2003. Total cost: 130.000,00 €

7. Co-Investigator in Project “Portuguese small pelagic fishes and climate change program: comparative retrospective analysis (PO-SPACC)”, financed by FCT, Portugal (Contract PRAXIS/P/CTE/11281/1998). 1999-2002.

6. Co-Investigator in Project “Mediterranean Desertification and Land Use (MEDALUS III)”, financed by the European Union, DG XII, Environmental Programme (Contrato ENV4-CT95-0121). Jan 1996-Jun 1999.

5. Principal Investigator in Project “Padrões de Circulação Atmosférica Associados à Ocorrência de Fogos Florestais em Portugal”, financed by FCT, Portugal (Contract PBIC/AGR/2111/95). Jan 1996-Jan 1999.

4. Consultant in Project “Previsão dos Caudais Afluentes a Barragens”, financed by REN - Rede Eléctrica Nacional, S.A., Portugal. Dez 1995-Dez 1996

3. Principal Investigator in Project “Sistema de Previsão Meteorológica a Longo Prazo para Portugal Continental”, financed by JNICT, Portugal (Contract PBIC/C/CEN/1112/92). Jan 1993-Jun 1996

2. Co-Investigator in Project “Mediterranean Desertification and Land Use (MEDALUS II)”, financed by the European Union, DG XII, Environmental Programme (Contract EV5V-CT92-0164). Jan 1993-Set 1995.

1. Co-Investigator in Project “Padrões de Variabilidade Climática em Portugal Aplicados à Previsão a Longo Prazo”, financed by JNICT, Portugal (Contract PEAM/C/CVC/12/91). Jan 1992-Jan 1995.

PUBLICATIONS

ISI papers

42. DaCamara CC, Calado TJ, Ermida SL, Trigo IF, Amraoui M, Turkman KF (2014) Calibration of the Fire Weather Index over Mediterranean Europe based on fire activity retrieved from MSG satellite imagery. International Journal of Wildland Fire 23, 945-958. doi: 10.1071/WF13157

41. Peres LF, Libonati R, DaCamara CC (2014) Land-Surface Emissivity Retrieval in MSG-SEVIRI TIR Channels Using MODIS Data. IEEE Transactions on Geoscience and Remote Sensing 52, 5587-5600. doi: 10.1109/TGRS.2013.2290778

40. Ermida SL, Trigo IF, DaCamara CC , Gottsche FM, Olesen FS, Hulley G (2014) Validation of remotely sensed surface temperature over an oak woodland landscape - The problem of viewing and illumination geometries. Remote Sensing of Environment 148, 16-27. doi: 10.1016/j.rse.2014.03.016

39. Pereira MG, Calado TJ, DaCamara CC, Calheiros T (2013) Effects of regional climate change on rural fires in Portugal. Climate Research 57, 187-200. doi: 10.3354/cr01176

38. Amraoui M, Liberato MLR., Calado TJ, DaCamara CC, Pinto-Coelho L, Trigo RM, Gouveia CM (2013) Fire activity over Mediterranean Europe based on information from Meteosat-8. Forest Ecology and Management 294, 62-75. doi: 0.1016/j.foreco.2012.08.032

37. Libonati R, DaCamara CC, Pereira JMC, Peres LF (2012). Retrieving middle-infrared reflectance using physical and empirical approaches: implications for burned area monitoring. IEEE Transactions on Geoscience and Remote Sensing 50, 281-294. doi: 10.1109/TGRS.2011.2160186

36. Gouveia C, Bastos A, DaCamara CC, Trigo RM (2012) Drought impacts on vegetations in the pre and post-fire events over Iberian Peninsula. Natural Hazards and Earth System Sciences 12, 3123-3137. doi:10.5194/nhess-12-3123-2012

35. Trigo IF, DaCamara CC , Viterbo P, Roujean J -L , Olesen F , Barroso C , Camacho-de Coca F , Freitas S C , García-Haro J , Geiger B , Gellens-Meulenberghs F , Meliá J , Pessanha L , Siljamo N (2011). The Satellite Application Facility for Land Surface Analysis, International Journal of Remote Sensing 32, 2725-2744. doi: 10.1080/01431161003743199

34. Libonati R, DaCamara CC, Pereira JMC, Peres LF (2011) On a new coordinate system for improved discrimination of vegetation and burned areas using MIR/NIR information. Remote Sensing of Environment, 115, 1464-1477. doi:10.1016/j.rse.2011.02.006

33. Liberato MLR, Paoletti E, DaCamara CC (2011) Climate changes and forests. Forest Ecology and Management 262, VII-IX. doi:10.1016/j.foreco.2011.09.014

32. Gouveia C, Liberato MLR, DaCamara CC, Trigo RM (2011) Modelling past and future wine production in the Portuguese Douro Valley. Climate Research 48, 349-362. doi:10.3354/cr01006

31. Bastos A, Gouveia CM, DaCamara CC, Trigo RM (2011) Modelling post-fire vegetation recovery in Portugal. Biogeosciences. 8, 3359-3607. doi:10.5194/bg-8-3593-2011

30. Peres LF, DaCamara CC, Trigo IF, Freitas SC (2010) Synergistic use of the two-temperature and split-window methods for land-surface temperature retrieval. International Journal of Remote Sensing 31, 4387-4409. doi:10.1080/01431160903260973

29. Libonati, R, DaCamara CC, Pereira JMC, Peres LF (2010) Retrieving middle-infrared reflectance for burned area mapping in tropical environments using MODIS. Remote Sensing of Environment 114, 831-843. doi: 10.1016/j.rse.2009.11.018

28. Amraoui M, DaCamara CC, Pereira JMC (2010) Detection and monitoring of African vegetation fires using MSG-SEVIRI imagery. Remote Sensing of the Environment 114, 1038-1052. doi:10.1016/j.rse.2009.12.019

27. Gouveia C, DaCamara CC, Trigo RM (2010) Post-fire vegetation recovery in Portugal based on spot/vegetation data. Natural Hazards and Earth System Sciences 10, 673-684. doi:10.5194/nhess-10-673-2010

26. Damião MCM, Cavalcanti IFA, Trigo RM, DaCamara CC, Aragão MRS (2009) Episódios de bloqueios no hemisfério Sul: comparação entre reanálises do NCEP/NCAR e modelo HadCM3. Revista Brasileira de Meteorologia, 24, 262-275. doi: 10.1590/S0102-77862009000300002

25. Gouveia C, Trigo RM, DaCamara CC (2009) Drought and vegetation stress monitoring in Portugal using satellite data. Natural Hazards and Earth System Sciences 9, 185–195. doi:10.5194/nhess-9-185-2009

24. Castanheira JM, Liberato MLR, de la Torre L, Graf H-F, DaCamara CC (2009) Baroclinic Rossby wave forcing and barotropic Rossby wave response to stratospheric vortex variability. Journal of the Atmospheric Sciences 66, 902-914. doi: 10.1175/2008JAS2862.1

23. Le Page Y, Pereira JMC, Trigo RM, DaCamara CC, Oom D, Mota B (2008). Global fire activity patterns (1996-2006) and climatic influence: an analysis using the World Fire Atlas. Atmospheric Chemistry and Physics 8, 1911-1924. doi:10.5194/acp-8-1911-2008

22. Trigo IF, Peres LF, DaCamara CC, Freitas SC (2008) Thermal land surface emissivity retrieved from SEVIRI/Meteosat. IEEE Transactions on Geoscience and Remote Sensing 46, 307-315. doi: 10.1109/TGRS.2007.905197

21. Peres LF, Sobrino JA, Libonati R, Jimenez-Munoz JC, DaCamara CC, Romaguera M (2008) Validation of a temperature emissivity separation hybrid method from airborne hyperspectral scanner data and ground measurements in the SEN2FLEX field campaign. International Journal of Remote Sensing, 29, 7251-7268. doi: 10.1080/01431160802036532

20. Libonati R, Trigo I, DaCamara CC (2008) Correction of 2 m-temperature forecasts using Kalman Filtering technique. Atmospheric Research, 87, 183-197. doi:10.1016/j.atmosres.2007.08.006

19. Gouveia C, Trigo R, DaCamara CC, Libonati R, Pereira JMC (2008) The North Atlantic Oscillation and European vegetation dynamics. International Journal of Climatology 28, 1835-1847. doi: 10.1002/joc.1682

18. Damião MCM, Trigo RM, Cavalcanti IFA, DaCamara CC (2008) Blocking episodes in the Southern Hemisphere: Impact on the climate of adjacent continental areas. Pure and Applied Geophysics 165, 1941–1962. doi: 10.1007/s00024-008-0409-4

17. Liberato MLR, Castanheira JM, de la Torre L, DaCamara CC, Gimeno L (2007) Wave energy associated with the variability of the stratospheric polar vortex. Special Collection: Jets and Annular Structures in Geophysical Fluids, Journal of the Atmospheric Sciences 64, 2683–2694. doi: 10.1175/JAS3978.1

16. Trigo RM, Pereira JMC, Pereira MG, Mota B, Calado MT, DaCamara CC, Santo FE (2006) Atmospheric conditions associated with the exceptional fire season of 2003 in Portugal. International Journal of Climatology 26, 1741-1757. doi:10.1002/joc.1333.

15. Peres LF, DaCamara CC (2006) Improving two-temperature method retrievals based on a nonlinear optimization approach. IEEE Geoscience and Remote Sensing Letters 3, 232-236. doi: 10.1109/LGRS.2005.862274

14. Peres LF, DaCamara CC (2005) Emissivity maps to retrieve land-surface temperature from MSG/SEVIRI. IEEE Transactions on Geoscience and Remote Sensing 43, 1834-1844. doi: 10.1109\TGRS.2005.851172

13. Pereira MG, Trigo RM, DaCamara CC, Pereira JMC, Leite SM (2005) Synoptic patterns associated with large summer forest fires in Portugal. Agricultural and Forest Meteorology 129, 11-25. doi:10.1016/j.agrformet.2004.12.007

12. Barroso C, Trigo IF, Olesen F, DaCamara CC, Queluz MP (2005) Intercalibration of NOAA and Meteosat window channel brightness temperatures. International Journal of Remote Sensing 26, 3717-3733. doi:10.1080/01431160500159834.

11. Damião MCM, Trigo RM, Cavalcanti IFA, DaCamara CC (2005) Bloqueios atmosféricos de 1960 a 2000 sobre o oceano pacífico sul: impactos climáticos e mecanismos físicos associados. Revista Brasileira de Meteorologia 20, 175-190.

10. Trigo RM, Trigo IF, DaCamara CC, Osborn TJ (2004) Climate impact of the European winter blocking episodes from the NCEP/NCAR Reanalyses. Climate Dynamics 23, 17-28, doi: 10.1007/s00382-004-0410-4

9. Peres LF, DaCamara CC (2004) Inverse problems theory and application: analysis of the Two-Temperature Method for land-surface temperature and emissivity estimation. IEEE Geoscience and Remote Sensing Letters 1, 206-210. doi: 10.1109\LGRS.2004.830613

8. Peres LF, DaCamara CC (2004) Land surface temperature and emissivity estimation based on the two-temperature method: sensitivity analysis using simulated MSG/SEVIRI data. Remote Sensing of Environment. 91, 377-389. doi:10.1016/j.rse.2004.03.011

7. Castanheira JM, Graf H-F, DaCamara CC, Rocha A (2002) Using a physical reference frame to study global circulation variability. Journal of the Atmospheric Sciences 59, 1490-1501. doi: 10.1175/1520-0469(2002)059<1490:UAPRFT>2.0.CO;2

6. Trigo RM, DaCamara CC (2000) Circulation weather types and their Influence on the precipitation regime in Portugal. International Journal of Climatology 20, 1559-1581. doi: 10.1002/1097-0088(20001115)20:13<1559::AID-JOC555>3.0.CO;2-5

5. Dwyer E, Pereira JMC, Grégoire J-M, DaCamara CC (2000) Characterization of the spatio-temporal patterns of global fire activity using satellite imagery for the period April 1992 to March 1993. Journal of Biogeography 27, 57-69. doi: 10.1046/j.1365-2699.2000.00339.x

4. Castanheira JM, DaCamara CC, Rocha A (1999) Numerical solutions of the vertical structure equation and associated energetic. Tellus 51A, 337-348. doi: 10.1034/j.1600-0870.1999.t01-1-00001.x

3. Kung EC, Susskind J, DaCamara CC (1993) Prominent Northern Hemisphere winter blocking episodes and associated anomaly fields of sea surface temperatures. Terrestrial, Atmospheric and Oceanic Sciences 4, 273-291

2. DaCamara CC, Kung EC, Baker WE, Lee B-C, Corte-Real JAM (1992) Long-term analysis of planetary wave activities and blocking circulation in the Northern Hemisphere winter. Contributions to Atmospheric Physics / Beiträge zur physik der atmosphere 64, 285-298.

1. Kung EC, DaCamara CC, Baker WE, Susskind J, Park C-K (1990) Simulations of winter blocking episodes using observed sea surface temperatures. Quarterly Journal of the Royal Meteorological Society 116, 1053-1070. doi:10.1256/smsqj.49502

Book chapters

6. Calado TJ, DaCamara CC (2008) Dating fire events on end of season maps of burnt scars. In "geoENV VI - Geostatistics for Environmental Applications". (Eds Soares A, Pereira MJ, Dimitrakopoulos R). pp. 323-333. (Springer, ISBN 978-1-4020-6647-0).

5. Mendes M, Trigo RM, DaCamara CC (2006) Bloqueios atmosféricos sobre o Hemisfério Sul. In "Avances en climatología y ciencias de la atmósfera – Vol II: Variabilidad Climática Natural: descripción, mecanismos y efectos sobre la circulación a escala planetária (ACCA2)". (Eds Gimeno-Presa L, García-Herrera R, Añel Cabanelas JA). pp. 137-144. (AICA Ediciones, Ourense, España, ISBN: 84-7491-772-7)

4. Liberato MLR, Castanheira JM, DaCamara CC, Silvestre JMP (2006) Sinais de reflexão das ondas planetárias na alta estratosfera. In "Avances en climatología y ciencias de la atmósfera – Vol II: Variabilidad Climática Natural: descripción, mecanismos y efectos sobre la circulación a escala planetária (ACCA2)". (Eds Gimeno-Presa L, García-Herrera R, Añel Cabanelas JA). pp. 77-93. (AICA Ediciones, Ourense, España, ISBN: 84-7491-772-7)

3. Peres LF, Sobrino JA, Libonati R, Jiménez-Muñoz JC, Romaguera M, DaCamara CC (2006) Validation of a temperature emissivity separation hybrid method from airborne hyperspectral scanner data and ground measurements in the SEN2FLEX field campaigns. In "Second Recent Advances in Quantitative Remote Sensing". pp. 881-886. (ed. València: Publications de la Universitat de València)

2. Libonati R, Peres LF, Gouveia C, Trigo R, DaCamara CC (2006) Using 21 years of AVHRR data to assess the impact of the North Atlantic oscillation on European vegetation dynamics. In "Second Recent Advances in Quantitative Remote Sensing". pp. 331-336. (ed. València: Publications de la Universitat de València)

1. DaCamara CC, Trigo RM, Mendes M (2005) Tipos de circulación atmosférica y su influencia en el regimen de precipitaciones en Portugal. In "Avances en climatología y ciencias de la atmósfera – Vol I: La Oscillación Del Atántico Norte y sus efectos sobre la Península Ibérica y Canárias (ACCA1)". (Eds Gimeno L, García-Herrera R, Trigo RM, Torre L). pp. 106-133. (AICA Ediciones, ISBN: 84-95780-15-1).