

Short CV,

Maria Teresa Jorge Mendes Calado

Birth place and date:

Lisbon, Portugal. 25-12-1966

Nationality:

Portuguese.

Academic Degrees:

- 2005:PhD, University of Lisbon, Portugal
- 1995: MSc, University of Lisbon, Portugal
- 1993: Degree, University of Lisbon, Portugal

Previous and Current scientific and professional activities:

2012-present: Researcher in the framework of EUMETSAT “Satellite Application Facility on Land Surface Analysis – Second Continuous Development and Operations Phase (LSA SAF – CDOP-2)”, Faculty of Sciences, University of Lisbon

2010-2012: Researcher in the framework of ESA CCI (Climate Change Initiative), ECV fire disturbance project team in the development of the MERIS burnt area detection at a global level, University of Alcalá, Madrid, Spain

1999-2010 Researcher in the framework of EUMETSAT “Satellite Application Facility on Land Surface Analysis (LSA SAF)”, Faculty of Sciences, University of Lisbon

1999-2000 Lecturer of Probability and Statistics and of Environmental Bio-statistics, at the Institute of Education and Science in Lisbon (Portugal).

1999-2000 Lecturer of Physics of Atmosphere, at the Polytechnic School of Setúbal (Portugal).

1996-1997 Researcher in the framework of project “Mediterranean Desertification and Land Use” (MEDALUS III), Faculty of Sciences, University of Lisbon

1993-1994 Re-processing of Meteosat images and their storage in a database: Institute of Meteorology (Lisbon, Portugal).

1992 Course for Operational Meteorologist at the Institute of Meteorology of Lisbon (Portugal).

Areas of Scientific Activity:

Wildfires, remote sensing

Participation in Research Projects

Co-Investigator in EUMETSAT “Satellite Application Facility on Land Surface Analysis – Second Continuous Development and Operations Phase (LSA SAF – CDOP-2)”. Mar 2012–Feb 2017.

Co-Investigator in ESA CCI (Climate Change Initiative), ECV fire disturbance project. 2010-2013.

Co-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.

Co-Investigator 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.

Co-Investigator in EUMETSAT “Satellite Application Facility on Land Surface Analysis – Continuous Development and Operations Phase (LSA SAF - CDOP)”. Mar 2007–Feb 2012.

Co-Investigator in EUMETSAT “Satellite Application Facility on Land Surface Analysis – Initial Operations Phase (LSA SAF - IOP). Jan 2005–Feb 2007.

Co-Investigator in EUMETSAT “Satellite Application Facility on Land Surface Analysis – Development Phase (LSA SAF - DP)”. Jun 1999–Dec 2004.

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

Thesis

Calado, T.J. (2005). Identification of clouds and burnt surfaces in satellite imagery based on neuro-fuzzy systems. Ph.D. Thesis, Faculty of Sciences, University of Lisbon.

Calado, T.J. (1995). Climate variability of the winter extra tropical circulation simulated by a GCM. M.Sc. Thesis, Faculty of Sciences, University of Lisbon.

Calado, T.J. (1993). An automatic classification of clouds using Meteosat imagery. Graduation thesis, Faculty of Sciences, University of Lisbon.

Book chapters

Calado, T.J., DaCamara C.C., 2008. Dating fire events on end of season maps of burnt scars. In *geoENV VI - Geostatistics for Environmental Applications*, Ed. Soares A., Pereira M.J., Dimitrakopoulos R., Springer, 323-333.

Papers in international scientific periodicals with referees

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

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

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

Trigo, R.M., Pereira, J.M.C., Pereira, M.G., Mota, B., **Calado, M.T.**, DaCamara, C.C., Santo, F.E., 2006. The exceptional fire season of summer 2003 in Portugal. *International Journal of Climatology*, 26 (13), 1741-1757. doi: 10.1002/joc.1333.