

Maria Tombrou Tzella

National and Kapodistrian
University of Athens,
Department of Physics, Division
of Environmental Physics and
Meteorology
Build. Phys-V,
University Campus, Zografou
Athens, GR 157 84
GREECE

mtombrou@phys.uoa.gr

ph: +30 210 7276935

fax:+30 210 7295281

Home address:
Vas. Pyrrou 22,
N. Erythraia,
Athens, GR 146 71
GREECE

Research Interests

My research interests focus on: 1) boundary layer parameterization schemes, 2) mean and turbulence characteristics of wind flow over complex terrain 3) urban meteorology, 4) meteorological modeling for air pollution dispersion (gases and aerosols), from mesoscale (mainly) to global scale.

Education

- 1980-1983 Ph.D. Department of Environmental Sciences, Lancaster University England, in the field of Atmospheric Physics; Ph.D. Thesis: "*Vertical diffusion of ozone in the low troposphere*"
- 1974-1979 B. Sc. Department of Physics, University of Athens

Scholarships

- 1974-1975 National Grands
- 1979-1980 BODOSSAKI Foundation Academic
- 1980-1983 Ministry of Coordination in conjunction with NATO scholarship
- 17-27/3/97 NATO Advanced Study Institute on Buoyant Convection in Geophysical Flows, Pforzheim, Germany

Professional experience

- 1983-1984 **Post-Doctoral Researcher** at Nuclear Center "Demokritos", in EEC program concerning subjects of safety and diffusion of radioactive releases in the atmosphere
- 1984-1985 **Post-Doctoral Researcher** at the University of Athens, involved in the programs: a) Study of the horizontal and vertical distribution of ozone over Athens; b) Atmospheric pollution in Athens - study of conditions, parameters and mechanisms
- 1986-1990 **Permanent position** at Public Power Corporation, Department of Alternative Energy Forms. Responsible for a) Atmospheric pollution assessment b) Wind power potential estimation and wind turbine siting, especially in areas of complex terrain
- 1990-1998 **Lecturer**, Department of Physics, Division of Environmental Physics and Meteorology, University of Athens

- 1998-2009 *Assistant Professor*, Division of Environmental Physics and Meteorology, University of Athens
- 2009-present *Associate Professor*, Division of Environmental Physics and Meteorology, University of Athens
- 1/2/2010-31/7/2010 *Visitor*, at National Center of Atmospheric Science (NCAR), during my sabbatical

Lectures

Under/Grad Fluid Dynamics

Graduate Fluid Dynamics/ Atmospheric Boundary Layer Physics/ Numerical Methods/ Data Analysis Methods/ Atmospheric Physics and Chemistry

Ph.D. Students advised

Ph.D. Students: D. Founda (Ph.D. 1995, Assoc. Researcher, at the National Observatory of Athens); E. Akylas (Ph.D. 2005, Assist. Researcher, At the National Observatory of Athens); A. Dandou (Ph.D. 2007, PostDoc University of Athens); E. Bossioli (Ph.D. 2007, PostDoc University of Athens); E. Athanassopoulou (Ph.D. 2009, PostDoc University of Karlsruhe, Germany); A. Protonotariou (finish this year); K. V. Varostsos; G. Papaggelis.

Reviewer

- Atmospheric Environment
- Journal of Applied Meteorology and Climatology
- Boundary Layer Meteorology
- Quarterly Journal of the Royal Meteorological Society
- Meteorology and Atmospheric Physics
- Journal of the Air and Waste Management Association
- Journal of the International Solar Energy Society

Other Activities

- National representative COST 715 "Meteorology Applied to Urban Pollution Problems" (1998- 2004)
- National representative COST 728 "Enhancing Meso - Scale Meteorological Modelling Capabilities for Air Pollution Dispersion applications", (2004-2009)

Projects (national not included)

- Safety and diffusion of radioactive releases in the atmosphere, 1983 – 1984, EU
- Study of the effect of special urban and architectural characteristics on the creation of pockets of high or especially low levels of atmospheric pollution proposals, 1984–1985, ΥΧΟΠ/ΠΕΡΠΙΑ και ΓΔ-12 της Ευρωπαϊκής Επιτροπής
- An experimental study of the horizontal and vertical distribution of ozone over Athens, 1984 – 1985, EU
- Integration of wind power in the Greek generation system, 1989, EU
- Air pollution study over Thessaloniki, 1991–1992, Scientific and Technological Cooperation between RTD Organizations in Greece and Germany
- Measurements of wind speed and turbulence to improve wind field and gust spectra prediction models in complex terrain, 1991 – 1993, JOULE I, EU

- Sodar development for anemological qualification of complex topography sites suited to installation of medium - large size WTGs, 1994 – 1995, JOULE II, EU
 - Modernization - Improvement of implementation and extension of the atmospheric pollution ground based monitoring, 1995 – 1996, LIFE, EU
 - Human Capital and Mobility (1995 – 1996), Scientific and Technological Cooperation between RTD Organizations in Greece and Italy, EU
 - European Topic Centre of Air Pollution, (1995-1998), 1995 -1998, EU
 - Implementing short-term prediction at utilities – PREDICT, 1996 – 1998, EU
 - Parameterization of convective and stable internal boundary layers into mass consistent models, 1998 – 1999, Scientific and Technological Cooperation between RTD Organizations in Greece and Italy, EU
 - Integrated computational assessment via remote observation system – ICAROS, 1998–1999, ENVIRONMENT AND CLIMATE, EU
 - Cotton biomass energy recovery – COTTON, 1998 – 2000, JOULE III, EU
 - Surface fluxes in climate system –SFINCS, 1998 – 2000, ENVIRONMENT AND CLIMATE, EU
 - Integrated Computational Assessment of urban air quality via Remote Observation Systems network (ICAROS-NET), 2001-2004, Information System Technology, EU
 - Three-dimensional modelling of the intercontinental transport of ozone and aerosols in the Eastern Mediterranean, Scientific and Technological Cooperation between RTD Organizations in Greece and USA, 2005-2007
 - Environmentally Compatible Air Transport System (ECATS), 2004-2009, EU
- *Lead Scientist for the part undertaken from the University of Athens*

Refereed Publications

- Lalas D., **Tombrou M.**, Petrakis M., Asimakopoulos D. N. and Helmis C. G., (1987), 'An experimental study of the horizontal and vertical distribution of ozone over Athens', Atmospheric Environment, **21**, pp. 2681 - 2693.
- Asimakopoulos D. N., Helmis C. G., Petrakis M. and **Tombrou M.**, (1993), 'Atmospheric boundary layer field measurements over coastal areas', Environmental Software, **8**, pp. 9 - 18.
- Founda D., **Tombrou M.**, Lalas D. P. and Asimakopoulos, (1997), 'Some measurements of turbulence characteristics over complex terrain', Boundary-Layer Meteorol., **83**, pp. 221 - 245.
- Helmis C. G., **Tombrou M.**, Asimakopoulos D. N., Soilemes A., Gusten H., Moussiopoulos N. and Hazaridou A., (1997), 'Thessaloniki '91 Field Measurement Campaign. Part I: The wind field and the Atmospheric Boundary Layer structure over the Greater Thessaloniki area', Atmospheric Environment, **31**, pp. 1101 - 1114.
- Helmis C. G., Papageorgas P. G., Asimakopoulos D. N., **Tombrou M.** and Petrakis M., (1997), 'Evaluation of minisodar performance operating in high wind conditions over complex terrain', Int. J. Remote Sensing, **18**, pp. 2289 - 2302.
- Leeuw F., Berge E., Gronskei K. and **Tombrou M.**, (1997), 'Review on requirements for models and model applications', Int. J. Environment and Pollution, **8**, pp. 391 - 400.
- **Tombrou M.** and Founda D., (1998), 'Wind profile diagnosis from surface routine meteorological data over a coastal area', Boundary-Layer Meteorol., **87**, 217-231.

- **Tombrou M.**, Bossioli E. and Lalas D., (1998), 'Application of a Monte Carlo dispersion model in complex terrain', Environmental Software, 13, 45-58.
- **Tombrou M.**, Founda D. and Boucouvala D., (1998), 'Nocturnal boundary layer height prediction from surface routine meteorological data', Meteorology and Atmospheric Physics, 68, pp. 177-186.
- Castino F. and **Tombrou M.**, (1998), 'Parameterization of convective and stable internal boundary layers into mass consistent models', J. of Wind Engineering and Industrial Aerodynamics, 74, pp. 239.
- Koussis A., Smith M., Akylas E. and **Tombrou M.**, (1998), 'Groundwater drainage flow in a soil layer resting on an inclined leaky bed', Water Resources Research, vol. 34, no. 11, pp. 2879-2887.
- Sarigiannis, N. I. Sifakis, N. Soulakellis, K. Schafer, **M. Tombrou**, (1998), 'A new approach to environmental data fusion for integrated assessment of particulate matter loading and its effect on health in the urban environment', International Journal of Remote Sensing, 19, pp. 3289-3300.
- **Tombrou M.**, E. Bossioli, D. Boucouvala and E. Vlahou, (2000), 'Intercomparison of different regulatory and Eulerian dispersion models: an application for the electric power plant in Rhodes Island', Int. J. Environment and Pollution, Vol. 14, Nos. 1-6, pp. 469-479.
- **Tombrou M.**, D. Founda, V. Tsadari and D. Lalas, (2000), 'Methodologies for atmospheric pollution assessment and the procedures for environmental permits in large combustion plants in Europe', Int. J. Environment and Pollution, Vol. 14, Nos. 1-6, pp. 208-216.
- Akylas E., **Tombrou M.**, Lalas D. and Zilitinkevich S. S., (2001), 'Surface Fluxes under Shear-Free Convection', Quarterly Journal of the Royal Meteorological Society, 127, pp. 1183-1197.
- Piringer, M., Grimmond, C.S.B., Joffre, S.M., Mestayer, P., Rotach., M., Baklanov, A., De Ridder, K., Ferreira, J., Guilloteau, E., Karppinen, A., Martilli, A., Masson, V., Middleton, D.R. and **Tombrou, M.**, 2002. 'Investigating the Surface Energy Balance in Urban Areas -Recent Advances and Future Needs'. International Journal on Water, Air and Soil Pollution: Focus 2 (5-6), pp. 1-16.
- Dantou A., Bossioli E., **Tombrou M.**, Sifakis N., Paronis D., Soulakellis N. and D. Sarigiannis, (2002), 'The importance of mixing height in characterising pollution levels from aerosol optical thickness derived by satellite', Int. J. on Water, Air and Soil Pollution: Focus 2: pp. 17-28.
- Bossioli E., **M. Tombrou** and C. Pilinis, (2002), 'Adapting the speciation of the VOCs emission inventory in the Greater Athens area', Int. J. on Water, Air and Soil Pollution: Focus 2, pp. 141-153.
- Sarigiannis D., N. Soulakellis, K. Schafer, M. **Tombrou**, N. I. Sifakis, D. Asimakopoulos, M. Lointier, E. Bossioli, A. Dantou, M. Saisana, (2002), 'ICAROS: An integrated computational environment for the assimilation of environmental data and models for urban and regional air quality', Int. J. on Water, Air and Soil Pollution: Focus 2(5), pp. 641-654.
- Akylas E., Y. Tsakos, **M. Tombrou** and D. Lalas, (2003), 'Measurements of surface fluxes over complex terrain under convective conditions', Quarterly Journal of the Royal Meteorological Society, Q. J. R. Meteorol. Soc., 129, pp. 1929-1943.
- Soulakellis, N., N. Sifakis, **M. Tombrou**, D. Sarigiannis and K. Schäfer, (2004), 'Estimation and mapping of aerosol optical thickness over the city of Brescia - Italy

using diachronic and multiangle SPOT 1, SPOT 2 and SPOT 4 imagery', GeoCarto Journal, vol. 19, no 4. pp. 57-65.

- Akylas V. and M. **Tombrou**, (2005), 'Interpolation between Businger-Dyer Formulae and Free Convection forms: A revised approach', Boundary-Layer Meteorol., 115 (3) pp. 381-398.
- Athanasopoulou E., Bossioli E. and **Tombrou M.** (2005), 'Modelling of aerosol in the Greater Athens Area, Greece', Int. J. Environment and Pollution, Vol. 24, Nos. 1/2/3/4, pp. 230-246.
- Dandou A., M. **Tombrou**, E. Akylas, N. Soulakellis and E. Bossioli E. (2005), 'Development and evaluation of an urban parameterization scheme in the Penn State/NCAR Mesoscale Model (MM5)', Journal of Geophysical Research-Atmospheres, 110, D10102, doi: 10.1029/2004JD005192
- Protonotariou, A., Bossioli, E., Athanasopoulou, E., Dandou, A., **Tombrou, M.**, Flocas, H.A., Helmis, C.G., and Assimakopoulos, V.D. (2005) 'Evaluation of CALPUFF modelling system performance: an application over the Greater Athens Area, Greece', Int. J. Environment and Pollution, Vol. 24, Nos. 1/2/3/4, pp. 22-35.
- Zilitinkevich, S. S., Hunt, J. C. R., Grachev, A. A., Esau, I. N., Lalas, D. P., Akylas, E., **Tombrou, M.**, Fairall, C. W., Fernando, H. J. S., Baklanov, A. and S. M. Joffre, 2005: 'The effect of large eddies on the convective heat/mass transfer over complex terrain: advanced theory and its validation against experimental and LES data'. Croatian Meteorological Journal, 40, 20-26.
- Zilitinkevich S. S., J. C. R. Hunt, A. A. Grachev, I. N. Esau, D. P. Lalas, E. Akylas, **M. Tombrou**, C. W. Fairall, H. J. S. Fernando, A. Baklanov and S. M. Joffre, 2006: 'The influence of large eddies on the surface layer turbulence'. Q.J.R. Meteorol. Soc., 132, pp. 1423-1456.
- Bossioli E., **Tombrou M.**, Dandou A., and Soulakellis N. (2007), 'Simulation of the effects of critical factors on ozone formation and accumulation in the Greater Athens Area'. Journal of Geophysical Research- Atmospheres, 112, D02309, doi:10.1029/2006/ JD007185.
- **Tombrou M.**, A Dandou, C. Helmis, E. Akylas, G. Aggelopoulos, H. Flocas, V. Assimakopoulos and N. Soulakellis, (2007), 'Model evaluation of the atmospheric boundary layer and Mixed-layer evolution', Boundary-Layer Meteorology, 124, 61-79, doi: 10.1007/s10546-006-9146-5
- Piringer M., S. Joffre, A. Baklanov, A. Christen, M. Deserti, K. D. Ridder, S. Emeis, P. Mestayer, **M. Tombrou**, D. Middleton, K. Baumann-Stanzer, A. Dandou, A. Karppinen and J. Burzynski, (2007), 'The surface energy balance and the mixing height in urban areas – Findings and recommendations of COST-Action 715', Boundary- Layer Meteorology, doi: 124, 3-24, 10.1007/s10546-007-9170-0
- Synnefa A., Dandou A., Santamouris M., **Tombrou M.** and Soulakellis N. (2008), 'On the use of cool materials as a heat island mitigation strategy', J. of Applied Meteorology and Climatology, 47, pp. 2846–2856
- Athanasopoulou E., **M. Tombrou**, S. N. Pandis, and A. G. Russell (2008), 'The role of sea-salt emissions and heterogeneous chemistry in the air quality of polluted coastal areas', Atmos. Chem. Phys. Discuss., 8, 3807–3841.
Athanasopoulou E., **M. Tombrou**, S. N. Pandis, and A. G. Russell (2008), 'The role of sea-salt emissions and heterogeneous chemistry in the air quality of polluted coastal areas', Atmos. Chem. Phys., 8, 5755-5769

- Dandou A., **M. Tombrou** and N. Soulakellis, (2008), 'The influence of the city of Athens in the evolution of the sea-breeze front', Boundary-Layer Meteorology, 131, 35-51, doi: 10.1007/s10546-008-9306-x.
- Bossioli E., **M. Tombrou**, A. Dandou, E. Athanasopoulou and K. B. Varotsos (2008), The Role of Planetary Boundary-Layer Parameterizations in the Air Quality of an Urban Area with Complex Topography, Boundary-Layer Meteorol., 131, 53-72, DOI : 10.1007/s10546-009-9349-7.
- Dandou A., **M. Tombrou**, K. Schäfer, S. Emeis, A. Protonotariou, E. Bossioli, N. Soulakellis and P. Suppan, 2009, 'A comparison between modeled and measured mixing layer height over Munich', Boundary-Layer Meteorology, 131, 425-440, 0.1007/s10546-009-9373-7.
- **Tombrou M.**, Bossioli E., Protonotariou A., Flocas H., Giannakopoulos C., Dandou A. (2009) 'Coupling Geos-Chem With A Regional Air Pollution Model For Greece', Atmospheric Environment, 43, 4793-4804.
- Athanasopoulou, E., **M. Tombrou**, A.G. Russell, A. Karanasiou, K. Eleftheriadis, and A. Dandou (2010), 'Implementation of road and soil dust emission parameterizations in the aerosol model CAMx: Applications over the greater Athens urban area affected by natural sources, J. Geophys. Res., doi:10.1029/2009JD013207, in press.
- Protonotariou, A. P., **Tombrou, M.**, Giannakopoulos, C., Kostopoulou, E. and Le Sager, P. (2010), Study of CO surface pollution in Europe based on observations and nested-grid applications of GEOS-CHEM global chemical transport model. Tellus B, 62: 209–227. doi: 10.1111/j.1600-0889.2010.00462.x
- Grimmond C. S. B., Blackett M., Best M. J., Baik J.-J., Belcher S. E., Beringer J., Bohnenstengel S. I., Calmet I., Chen F., Coutts A., Dandou A., Fortuniak K., Gouvea M. L., Hamdi R., Hendry M., Kanda M., Kawai T., Kawamoto Y., Kondo H., Krayenhoff E. F., Lee S.-H., Loridan T., Martilli A., Masson V., Miao S., Oleson K., Ooka R., Pigeon G., Porson A., Ryu Y.-H., Salamanca F., Steeneveld G. J., **Tombrou M.**, Voogt J. A., Young D., Zhang N., 2010: 'Initial results from Phase 2 of the International Urban Energy Balance Models Comparison Project', J. of Applied Meteorology and Climatology, accepted

International Conferences

- Tombrou M., Petrakis M. and Lalas D. P., (1986), 'Horizontal and vertical distribution of ozone in Athens', ESF Workshop on Tropospheric Ozone Chemistry, 11-17 May, Dubrovnik, Yugoslavia.
- Kollas J. and Tombrou M., (1987), 'Modelling nuclear reactor accidents: sensitivity of the consequences to the meteorological record', Proc. IASTED International Symposium, Modelling identification and control, February 17 - 20, Switzerland, pp. 438 - 441.
- Lalas D., Tombrou M. and Petrakis M., (1988), 'Comparison of the performance of some numerical wind energy siting codes in rough terrain', Proc. European Wind Energy Conference and Exhibition, 6-10 June, Herning, Denmark, pp. 110-114.
- Kanellopoulos D. and Tombrou M., (1989), 'Wind data predictions using a mass-consistent algorithm by extrapolating experimental values from one ground station', Proc. EWEC' 89, Glasgow, Scotland.
- Tombrou M. and Lalas D., (1990), 'A telescoping procedure for local wind energy potential assessment', Proc. EWEC' 90, Madrid, Spain, pp. 632-638.

- Cartalis C., Varotsos C. and Tombrou M., (1991), 'Variations of historic and recent surface ozone measurements in Athens Greece", 1st General Conference of the Balcan Physical Union, 26 - 28 September, Thessaloniki, Greece.
- Varotsos C., Cartalis C. and Tombrou M., (1991), "A potential diagnostic tool for climate variations", NASA 5th Climate Variations Conference, 14 - 18 October, Greenbelt, Maryland.
- Varotsos C., Cartalis C. and Tombrou M., (1991), "Using radiosonde data for the period 1978- 87 to investigate the trop-stratosphere exchange over Athens, Greece", General Assembly of the European Geophysical Society Conference, Wiesbaden, 22-26 April.
- Asimakopoulos D. N., Helmis C. G., Petrakis M. and Tombrou M., (1992), "Field measurement campaign performed along the Greater Athens Coastal Area", 7th EUMAC International Workshop, 28 September - 2 October, Porto Carras, GR. Proc. KFA Thessalokiki '91 Field Measurement Campaign, edited by N. Moussiopoulos and G. Kaiser
- Tombrou M., Helmis C. G., Petrakis M. and Asimakopoulos D. N., (1992), "The wind field and the atmospheric boundary layer structure over the Greater Thessaloniki Area: Part I - The wind field", 7th EUMAC International Workshop, 28 September - 2 October, Porto Carras, GR. Proc. KFA Thessalokiki '91 Field Measurement Campaign, edited by N. Moussiopoulos and G. Kaiser, vol. 18, pp. 11-24.
- Helmis C. G., Asimakopoulos D. N., Tombrou M. and Soilemes A., (1992), "The wind field and the atmospheric boundary layer structure over the Greater Thessaloniki Area: Part II - The atmospheric boundary layer structure", 7th EUMAC International Workshop, 28 September - 2 October, Porto Carras, GR. Proc. KFA Thessalokiki '91 Field Measurement Campaign, edited by N. Moussiopoulos and G. Kaiser, vol. 18, pp. 26-42.
- Asimakopoulos D. N., Petrakis M., Helmis C. G., Tombrou M., Varotsos C. and Soilemes A., (1992), "A combined meteorological and air pollution experiment over Thessaloniki", Proc. KFA Seminar on Monitoring and Modelling in the Mesoscale Thessaloniki September 27, 1991, edited by N. Moussiopoulos and G. Kaiser, vol. 9, pp. 65-77.
- Varotsos C., Helmis C. G., Petrakis M., Tombrou M. and Asimakopoulos D. N., (1993), "On the vertical ozone structure over Thessaloniki area during sea breeze days", 7th EUMAC International Workshop, 28 September - 2 October, Porto Carras, GR. Proc. KFA Thessalokiki '91 Field Measurement Campaign, edited by N. Moussiopoulos and G. Kaiser, vol. 18, pp. 135-148.
- Founda D. H., Tombrou M., Asimakopoulos D. N. and Lalas D. P., (1993), "The effects of the terrain complexity on the structure of turbulence", ISES Solar World Congress, August 23 - 27, Budapest, Hungary.
- Tombrou M., Lalas D. P., Tryfonopoulos D. and Panourgias J., (1993), "Tests of prediction effectiveness of wind energy computer models in complex terrain", Proc. European Union Wind Energy Conference and Exhibition, 8-12 March, Travemunde, Germany, pp. 599-602..
- Tombrou M., Bosioli E. and Lalas D., (1994), "Application of a mass consistent model over complex terrain with separation regions", Proc. EWEC' 94, 10-14 October, Thessaloniki, Greece, pp. 432-441.
- Founda D. and Tombrou M., (1994), "The internal boundary layer influence on the mean flow over complex terrain", Proc. EWEC' 94, 10 - 14 October, Thessaloniki, Greece, pp. 280-284.

- Helmis C., Papageorgas P., Asimakopoulos D., Tombrou M. and Petrakis M., (1995), "The use of mini-sodar for wind energy applications, over complex terrain" Proc. BWEA 17, Warwick, England, 19-21 July, pp 211-216.
- Tombrou M., Founda D. and Florodimitri M., (1995), "Nocturnal Boundary Layer prediction from surface routine meteorological data", 3rd Int. Conf. on Air Pollution, Air Pollution 95, Thessaloniki, Greece, pp. 293-299.
- Karali E. and Tombrou M., (1995), "Spatial distribution of SO₂ in the Athens basin", 3rd Int. Conf. on Air Pollution, Air Pollution 95, Thessaloniki, Greece, pp. 185-192.
- Boucouvala D., Tombrou M., Helmis C. G. and Asimakopoulos D. N., (1995), "Simulation of nocturnal drainage flows and dispersion of pollutants in a complex valley", 3rd Int. Conf. on Air Pollution, Air Pollution 95, Thessaloniki, Greece, pp. 223-230.
- Tombrou M., Bossioli E. and Lalas D., (1995), "Application of a Monte Carlo dispersion model in complex terrain", 3rd Int. Conf. on Air Pollution, Air Pollution 95, Thessaloniki, Greece, pp. 249-257.
- Founda D. and Tombrou M., (1996), "The IBL concept over complex topography for stable and neutral conditions", Proc. European Union Wind Energy Conference and Exhibition, 20 - 24 May, Goteborg, Sweden, pp. 663-666.
- Tombrou M., Helmis C. G., Papageorgas P., Asimakopoulos D. N. , Founda D. and Lalas D., (1996), "Atmospheric stability dependence of the wind flow over complex terrain", Proc. European Union Wind Energy Conference and Exhibition, 20-24 May, Goteborg, Sweden, pp. 522-525.
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- Castino F. and Tombrou M., (1997), "Parameterization of convective and stable internal boundary layers into mass consistent models", European and African Conference of Wind Engineering, 22 - 26 June, Genoa, Italy.
- Watson S. J., Tombrou M., Pesmajoglou S. and Lalas D., (1997), "Investigation of the economic benefits to utilities from wind speed forecasting at wind park sites in Crete", Proc. EWEC' 97, 6 - 9 October, Dublin, Ireland.
- Akylas E., Tombrou M., Panourgias J. and Lalas D., (1997), "The use of common meteorological predictions in estimating short term wind energy production in complex terrain", Proc. EWEC' 97, 6 - 9 October, Dublin, Ireland.
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- Piringer M., Baklanov A., De Ridder K., Ferreira J., Joffre S., Karppinen A., Mestayer P., Middleton D., Tombrou M and Vogt R., (2001), "The Surface Energy Budget and the Mixing Height in Urban Areas: Status report of Working Group 2 of COST-Action 715, 3rd Int. Conf. on Urban Air Quality Quality – Measurement, Modelling & Management, 19-23 March 2001.
- Dantou A., Bossioli E., Tombrou M., Sifakis N., Paronis D., Soulakellis N. and D. Sarigiannis, (2001), "The importance of mixing height in characterising pollution levels from aerosol optical thickness derived by satellite", 3rd Int. Conf. on Urban Air Quality Quality – Measurement, Modelling & Management, 19-23 March 2001.
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- Sarigiannis, N. Soulakellis, K. Schafer, M. Tombrou, N. I. sifakis, D. Asimakopoulos, M. Lointier, E. Bossioli, A. Dantou, M. Saisana, (2001), "ICAROS: An integrated computational environment for the sssimilation of environmental data and models for urban and regional air quality", 3rd Int. Conf. on Urban Air Quality – Measurement, Modelling & Management, 19-23 March 2001.
- Dandou A., Akylas E. and Tombrou M. (2003), "Urban parameterization into MM5 model", Geophysical Research Abstracts, Vol. 5, 10882, *EGS-AGU-EUG Joint Assembly, Session AS23: Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April*
- Bossioli E., M.Tombrou, A.Dandou (2003), 'Gas phase and aerosol model simulations in the Greater Athens Area', *EGS-AGU-EUG Joint Assembly, Session AS23: Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.*
- Akylas E., Tombrou M. and Lalas D. (2003), 'Wind speed and temperature profiles under unstable conditions. A generalized interpolation between Kansas type formulae and free convection forms', Geophysical Research Abstracts, Vol. 5, 12974, *EGS-AGU-EUG Joint Assembly, Session AS23: Atmospheric Environment and Urban Meteorology, Nice, France, 6-11 April 2003.*
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