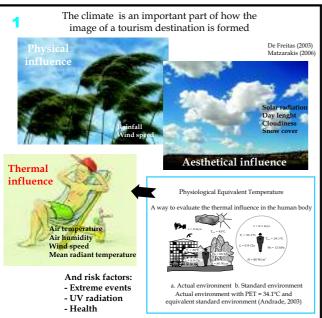
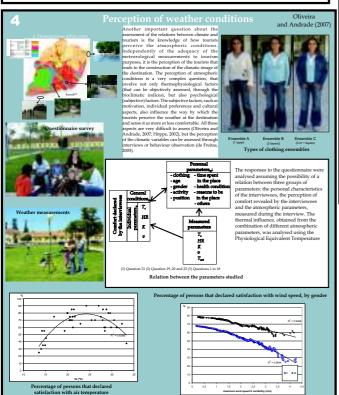


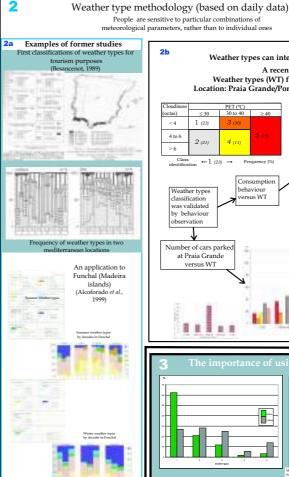
Methodologies to assess the effects of climate in Tourism: Weather types and individual perception

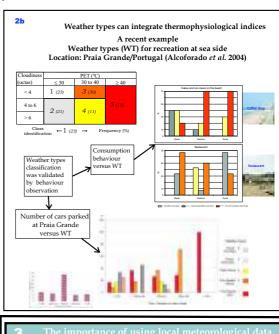
3rd INTERNATIONAL WORKSHOP ON CLIMATE, TOURISM AND RECREATION

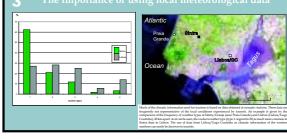
Alexandroupolis/Greece 19th to 22nd September 2007,











Conclusions

- Weather types (WT) express global atmospheric conditions
- WT are a way to integrate thermal, physical and aesthetical
- WT have been validated by behaviour or consumption data
- WT can integrate risk factors WT must be adapted to specific purposes and to local

- Impacts of climate change in tourism will depend on the change in the frequency of WT

 Based on climate scenarios it is possible to project future WT
- Personal factors (including psychological features) must be considered when assessing how people perceive the
- spheric conditions ividuals in outdoor conditions may feel confortable with temperatures much higher than the values accepted by the traditional models of thermal comfort, designed for indoors

The research group in local and urban climatology of the Geo-ecology area of the Centro de Estudos Geográficos (Centre of Geographical Studies) is constituted by Maria João Alcoforado, António Lopes, Henrique Andrade, Carla Mora and Sandra Oliveira. The group develops studies in climatology, in both theoretical and applied perspectives, mostly in urban areas, but also in tourism climatology, climate change in historical period and local climates in mountain areas.

Some publications from the members of the group:

Alcoforado, M.J.; Andrade, H. (2006), Nocturnal urban heat island in Lisbon (Portugal): main features and modelling attempts. Theoretical and Applied Climatology, 84, 1-3, p. 151 159.

Alcoforado, M. J.; Nunes, M. F.; Garcia, J. C.; Taborda, J. P. (2000) Temperature and Precipitation Reconstruction in southern Portugal during the Late Maunder Minimum (1675-1715). The Holocene, 10 (3): 333-340.

Alcoforado, M. J.; Andrade, H.; Paulo, M. J. (2004) Weather and recreation at the Atlantic shore near Lisbon, Portugal. A study on applied climatology. In A. Matzarakis, DeFreitas, C.R. e Scott, D. (ed), Advances in Tourism Climatology, Berichte des Meteorologishen Institutes der Universitaet Freiburg, 12: 38-48.

Oliveira, S.; Andrade, H. (2007) An initial assessment of the bioclimatic comfort in an outdoor public space in Lisbon, International Journal of Biometeorology, on line first

Lopes, A. 2003: Changes in Lisbon's urban climate as a consequence of urban growth. Wind, surface, UHI and energy budget. PhD Thesis, University of Lisbon (in Portuguese with abstract

Mora, C. (2006) Regional and local climates in Serra da Estrela (Portugal). PhD thesis, University of Lisbon

The group is currently involved in the URBKLIM project (POCI/GEO/61148/2004) with the participation of several entities besides the Centre of Geographical Studies, namely the National Engineering Laboratory (LNEC) and the Faculty of Architecture of the Technical University of Lisbon. The main aim of this project is to contribute to the improvement of the urban climate and the sustainability of the city of Lisbon, by developing research about the perception of the bioclimatic comfort and the climatic risks in the urban environment.