

# Effect of intense dust episodes on atmospheric lapse rates in the Mediterranean basin

A. Gkikas<sup>1</sup>, C. Papadimas<sup>1</sup>, N. Mihalopoulos<sup>2</sup> and N. Hatzianastassiou<sup>1</sup>



<sup>1</sup>University of Ioannina, Department of Physics, Ioannina, Greece

<sup>2</sup>University of Crete, Department of Chemistry, Crete, Greece

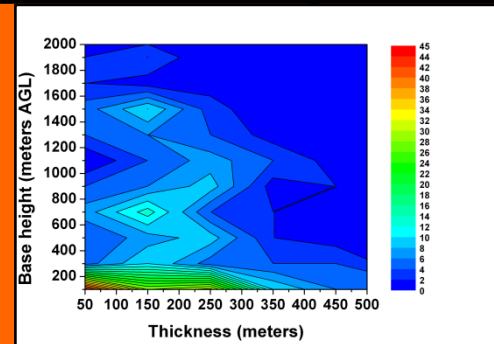
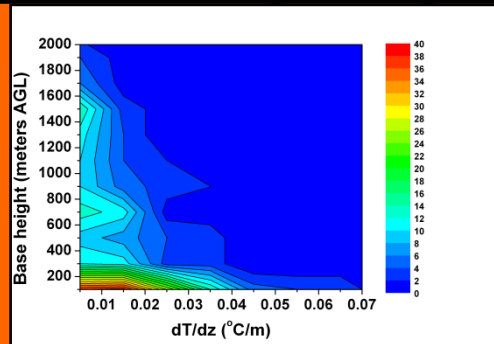


556 temperature inversions, during DD episodes, in 24 Mediterranean airports

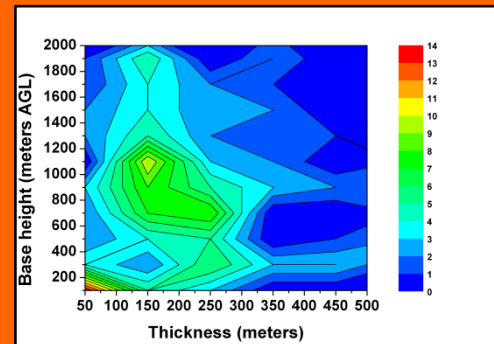
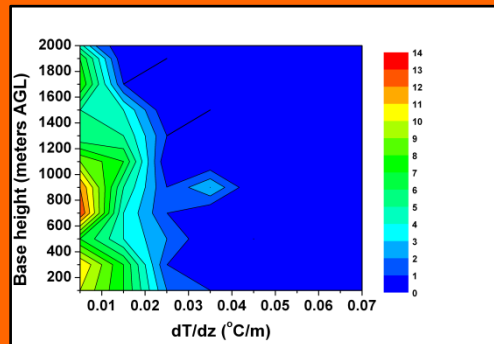
Inversion base height-Magnitude

Inversion base height-Thickness

00 UTC



12 UTC



# The seasonal variation of the main characteristics of temperature inversions at noon (12 UTC)

## Base height

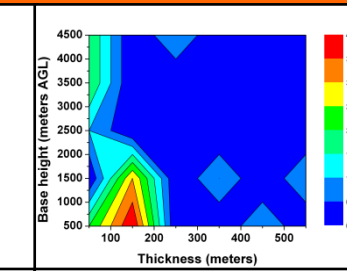
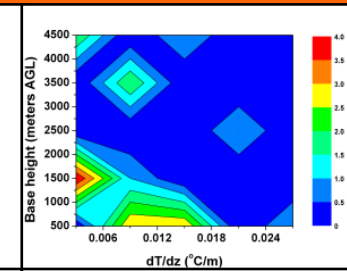
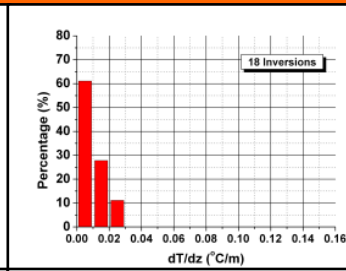
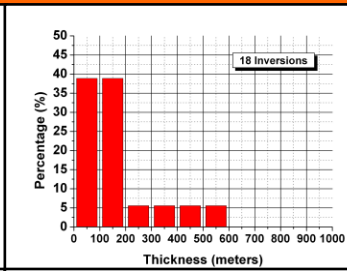
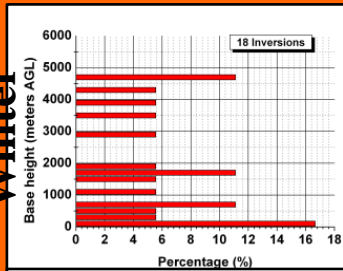
## Thickness

## Magnitude

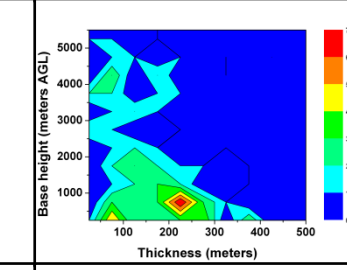
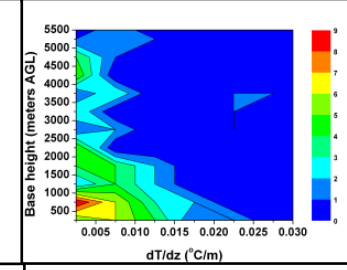
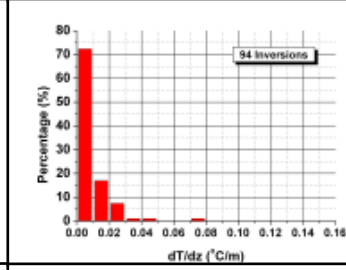
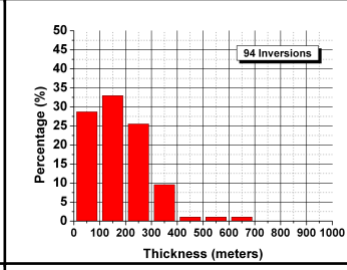
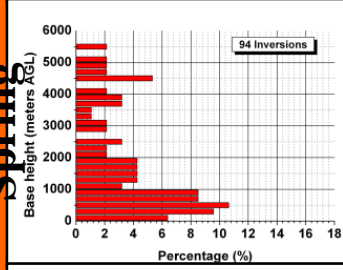
## Base-Magnitude

## Base -Thickness

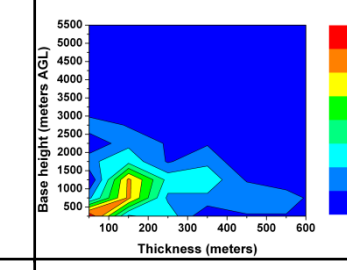
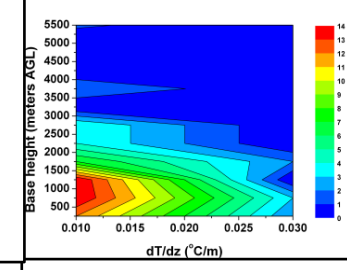
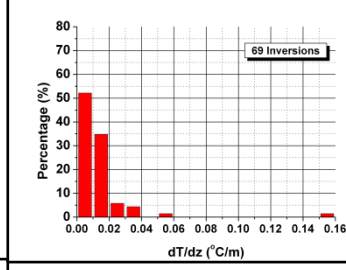
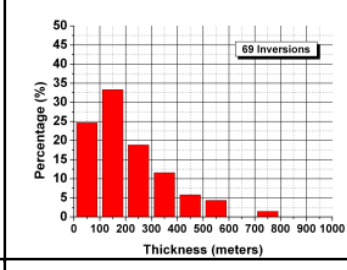
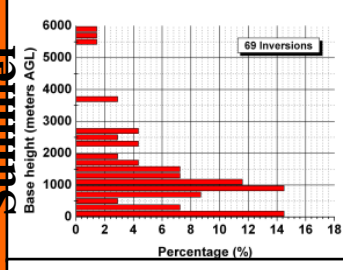
Winter



Spring



Summer



Autumn

