

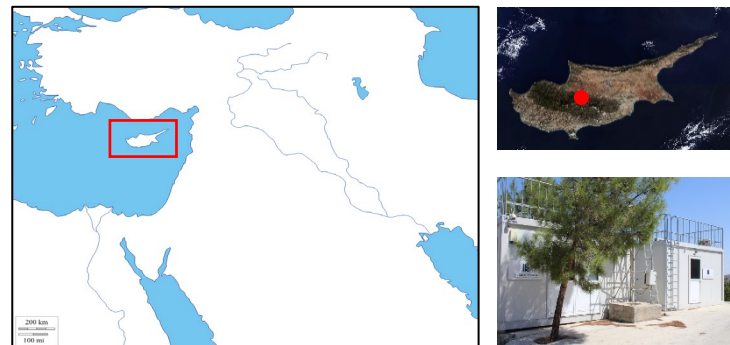
# The effect of spatial and altitudinal distribution of air parcels in the Eastern Mediterranean basin on PM<sub>10</sub> and PM<sub>1</sub> composition

Konstantinos Dimitriou; Michael Pikridas; Jean Sciare; Nikolaos Mihalopoulos



## The sampling site

## 3D – Concentration Weighted Trajectory model



- ✓ A 3D version of Concentration Weighted Trajectory (CWT) model was coupled with PM<sub>10</sub> and PM<sub>1</sub> composition data from Agia Marina Xyliatou station in Cyprus
- ✓ The spatial and vertical orientation of incoming air masses in cold and warm periods was analyzed
- ✓ Distinct altitudinal layers of atmospheric transport were investigated
- ✓ The atmospheric pathways of aerosol intrusions in the Eastern Mediterranean basin were revealed

