

Climate change in Cyprus

M. K. Theophilou (1), P. Michael (1), D. Serghides (2), K. Theophilou (3)

(1) *Department of Meteorology, Sector of Climatology and Applications in Meteorology,
1418 Nicosia, Cyprus, marios.theophilou@gmail.com*

(2) *Cyprus University of Technology, Department of Environmental Management,
3036 Limassol, Cyprus, d.k.serghides@cytanet.com.cy*

(3) *Former Director Department of Meteorology*

Abstract

During the recent years, Cyprus has experienced the results of climate change as it is the case globally. During the 20th century, the Cyprus climate and especially the two basic climatic parameters (temperature and rainfall) have shown significant variations. More specifically, rainfall has shown a negative trend with a mean rate of about 1 mm per year and temperature has shown a positive trend with a mean rate of 0,01°C per year.

Beside the variations in the climatic parameters, and mainly because of the climate changes, extreme weather events such as extreme maximum and minimum temperatures, drought events and heavy rainfall events have also been observed in Cyprus. In this paper, an effort is being made to investigate the changes in the climate and in the frequency of these extreme weather events for the area of Cyprus during the recent years.

Keywords: Climate change, extreme weather events