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Do climate changes affect the fruiting timing of wild mushroom populations in Israel?

Dalia Lewinsohn Dalpitriot

University of Haifa International School, Israel

Despite the semi-arid climate of Israel the mushrooms mycobiota is quite varied and has been studied over the years. We found both early and late fruiting in many wild mushroom species in the 2015 mushroom season, that displayed unusual temperatures and rain. Distribution in some cases, several species fruited twice on that year. Similar findings were also reported by researchers from Norway, England, France, Germany and other countries. Is this phenomenon related to global warming changes? Our findings cannot answer this question. We conclude that due to the abnormal weather we could detect a fluctuation in the timing of mushroom appearance, which could be the result of global changes. In order to investigate the causes of these observations, we suggest examining and combining previous herbarium mushroom fruiting records and meteorological information.

dalpitriot@gmail.com