



## **Extreme soil erosion events in Israel coastal area: observations & measurements**

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In general rill and interrill erosion are considered as the main soil erosion processes over large cultivated areas in the Mediterranean region. However, the long term impact of these processes is hard to quantify and to model because soil loss is difficult to measure in general, and because farmers tend to eliminate any evidences by agriculture activities. Many researchers utilize research plots to overcome this problem however these plots will not necessarily experience extreme conditions and provide underestimated soil loss rates . On the other hand extreme soil erosion events provide us a unique opportunity to measure soil loss rates and quantities under real conditions in which soil erosion processes are intensified usually due to local heavy rain storm. We present a few examples of extreme soil erosion events at the central coastal area of Israel for which we asses soil losses using TLS and compare results with known soil erosion rates.