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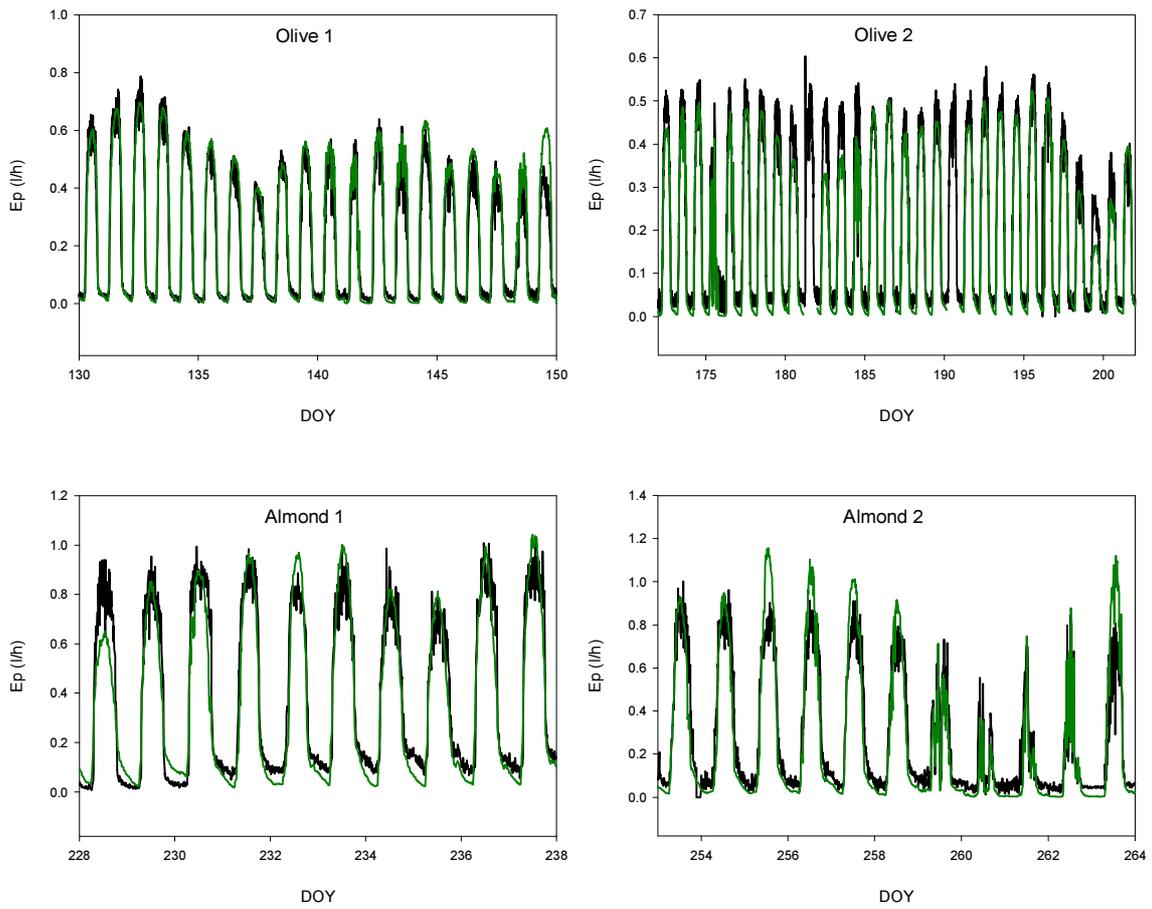




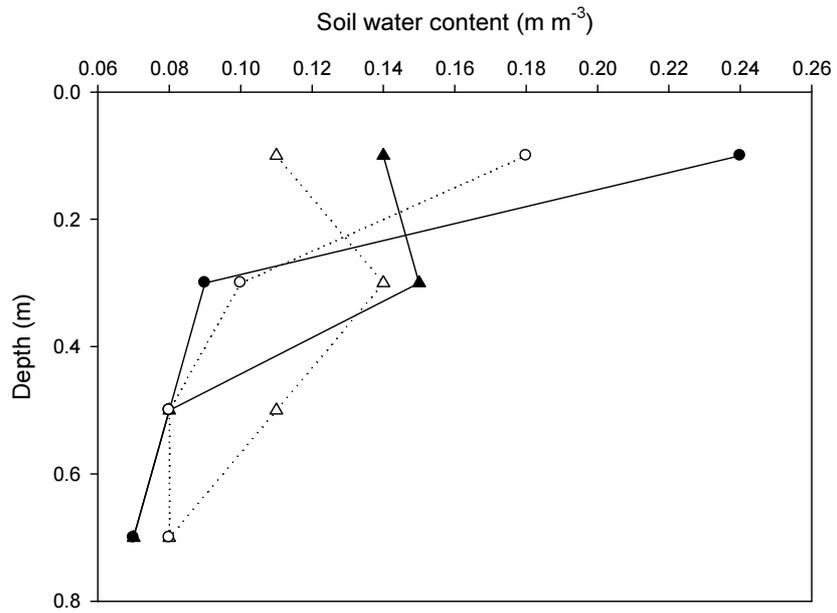




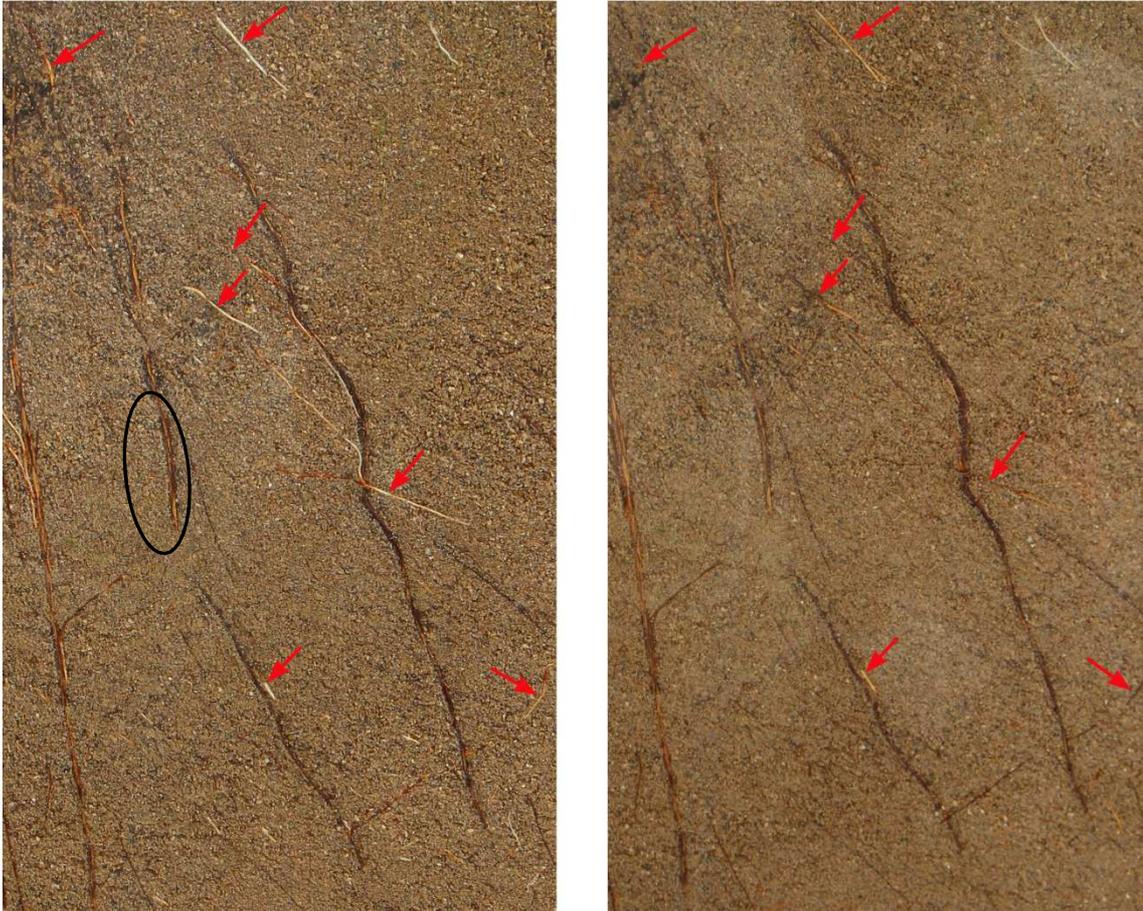




**Fig A2.** Measured (black) and modelled (green)  $E_p$  for the four trees used in the experiment



**Fig A3.** Modelled (circles) and measured (triangles) soil water content at 1 hour (straight lines) and 8 hours (dotted lines) after irrigation.



**Fig A4.** Almond roots impacting the transparent sheet of the lysimeter before (left image) and after (right image) a drying cycle. Roots with a noticeable change in color after the dried phase have been highlighted with the red arrows. The black circle indicate a group of clumped roots.