



**Task 2.2. characterization of spatial heterogeneities (leader:
CESBIO)**

UNICA

**Dipartimento di Ingegneria Civile , Ambientale e Architettura
Università di Cagliari, Italy**

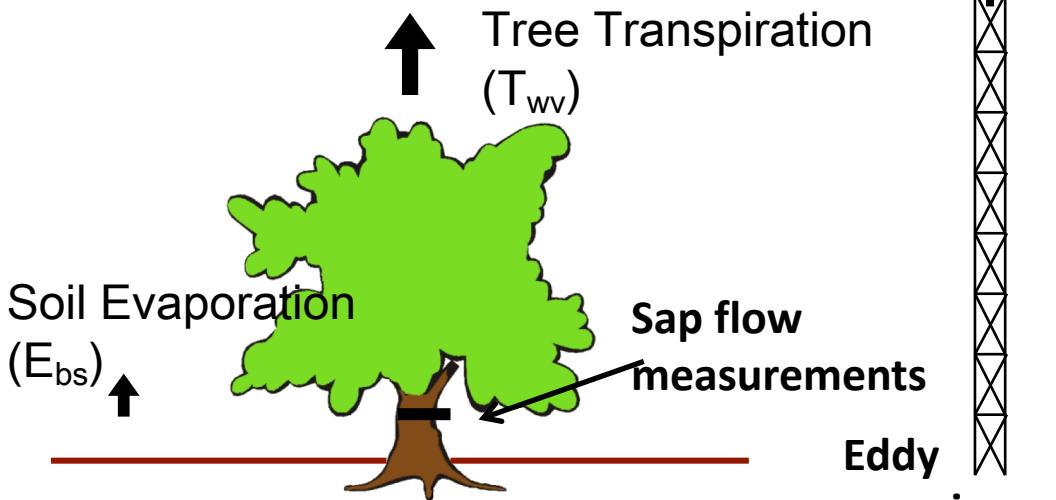
PI: Nicola Montaldo

***Giulio Vignoli, Roberto Corona, Serena Sirigu, Alessandro
Seoni, Antonio Mascia, Andrea Saba***

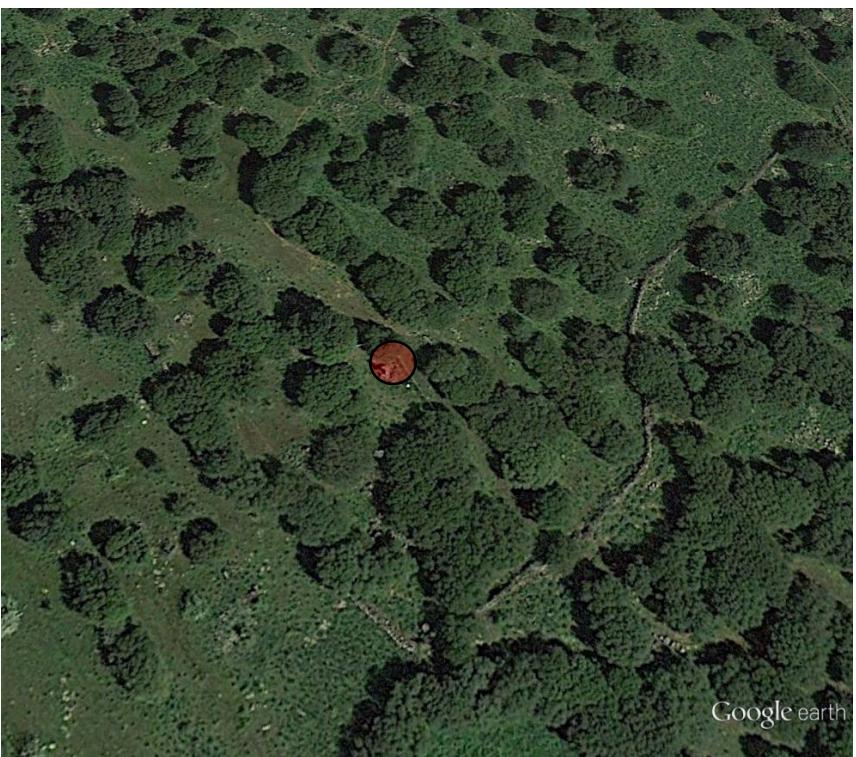




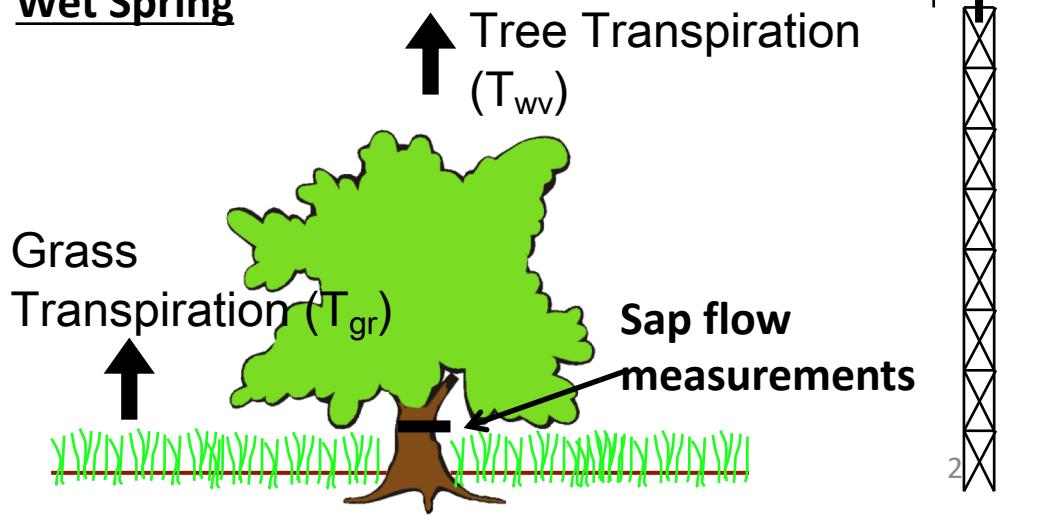
Dry Summer



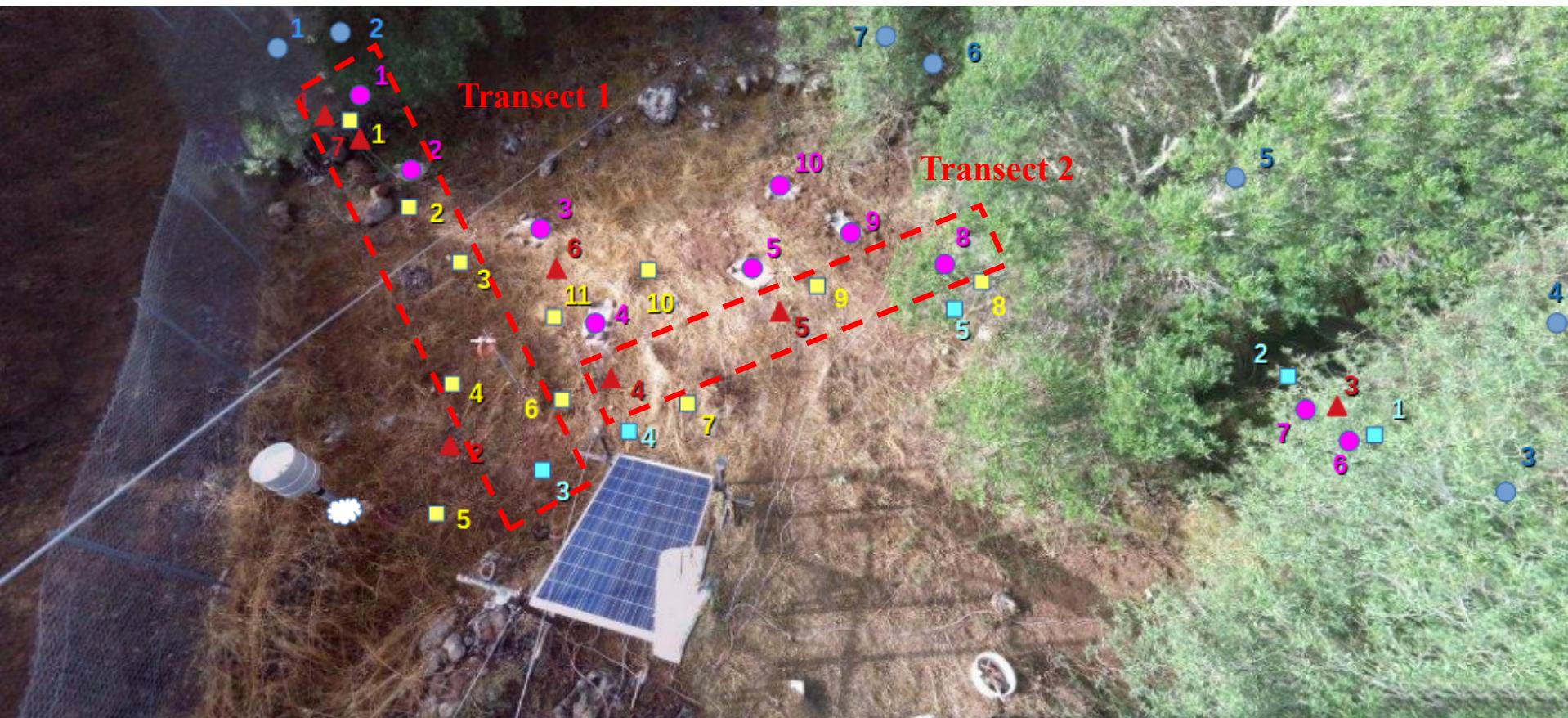
$$ET = E_{bs} f_{bs} + T_{wv} f_{wv} + T_{gr} f_{gr}$$



Wet Spring



INSTRUMENTS AT ORROLI SITE FROM 2018



● Stem Sap

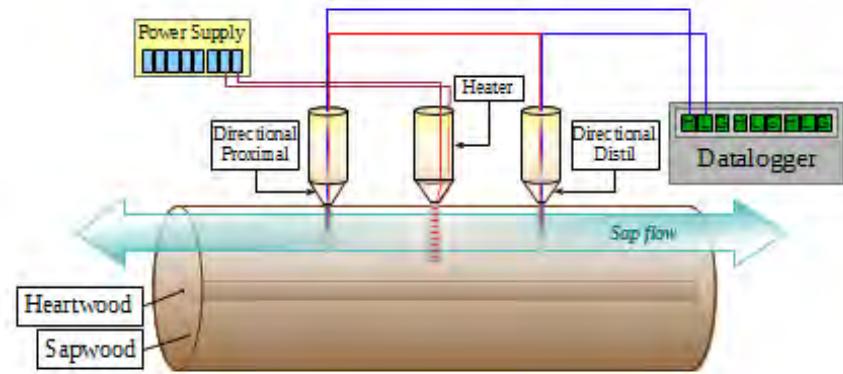
● Root Sap

■ CS615

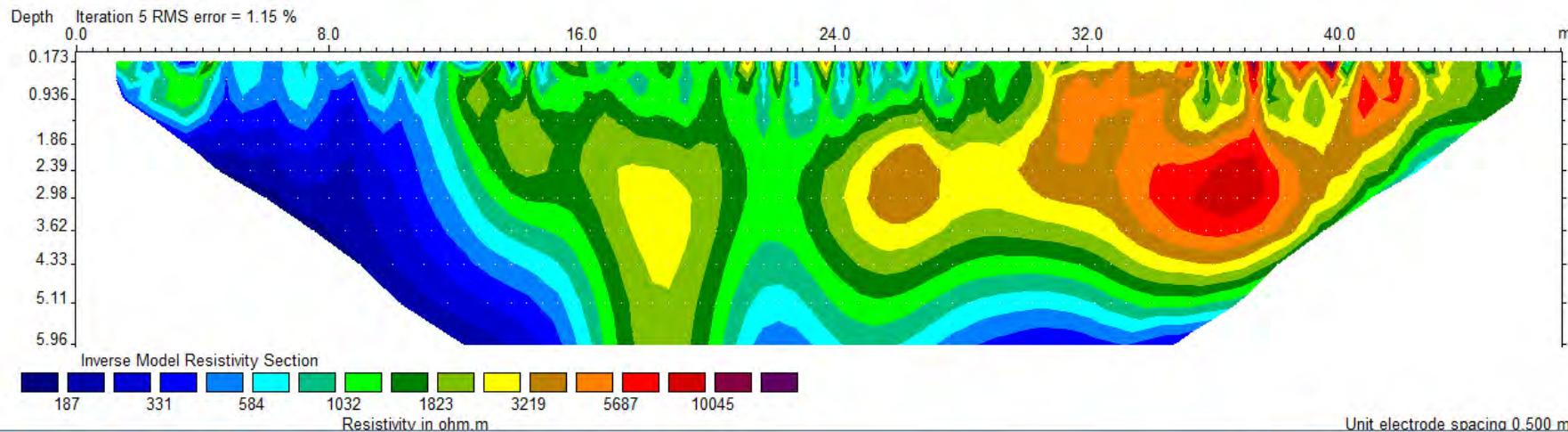
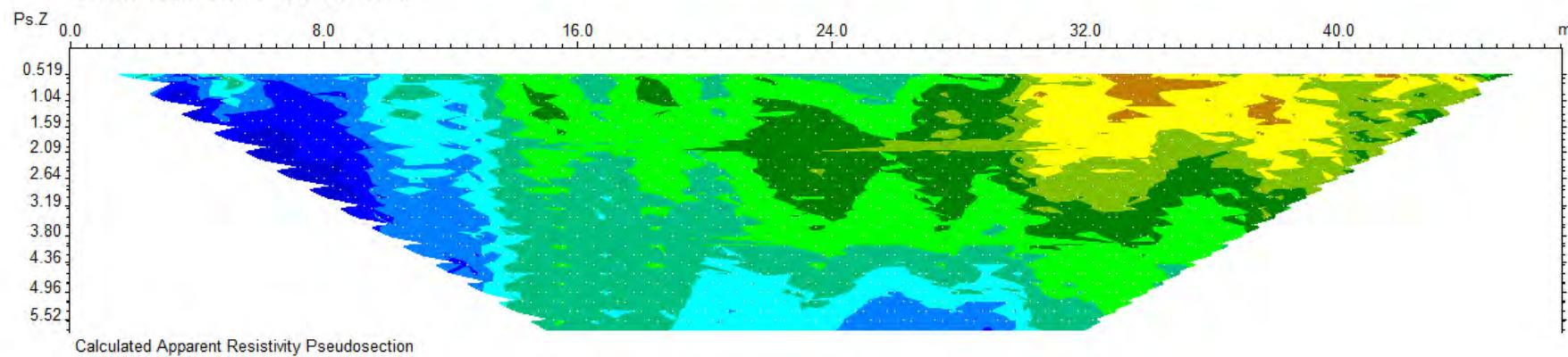
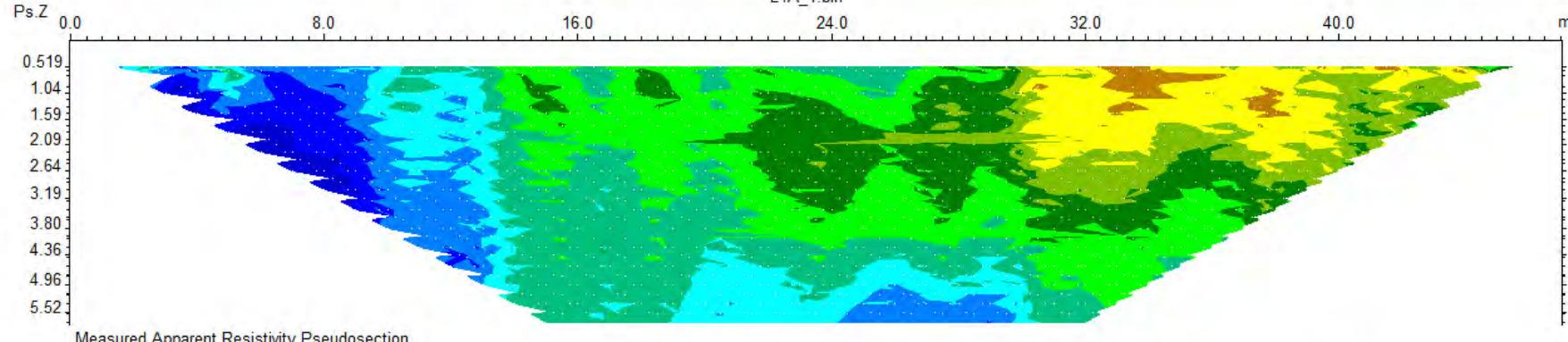
■ CS616

△ MPS2

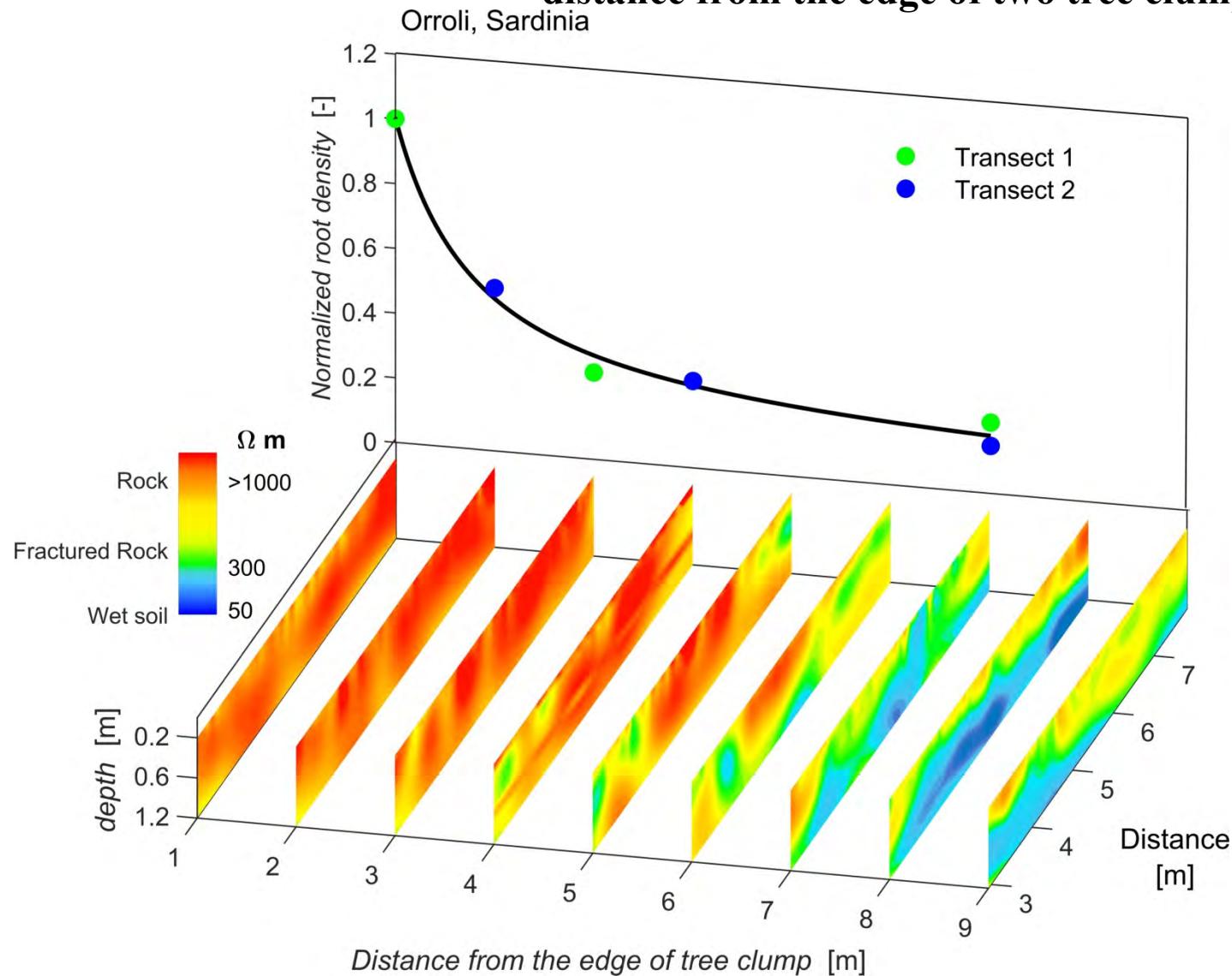
Root sapflow probes (Granier, 1985)



File Display sections Change display settings Edit data Print Exit

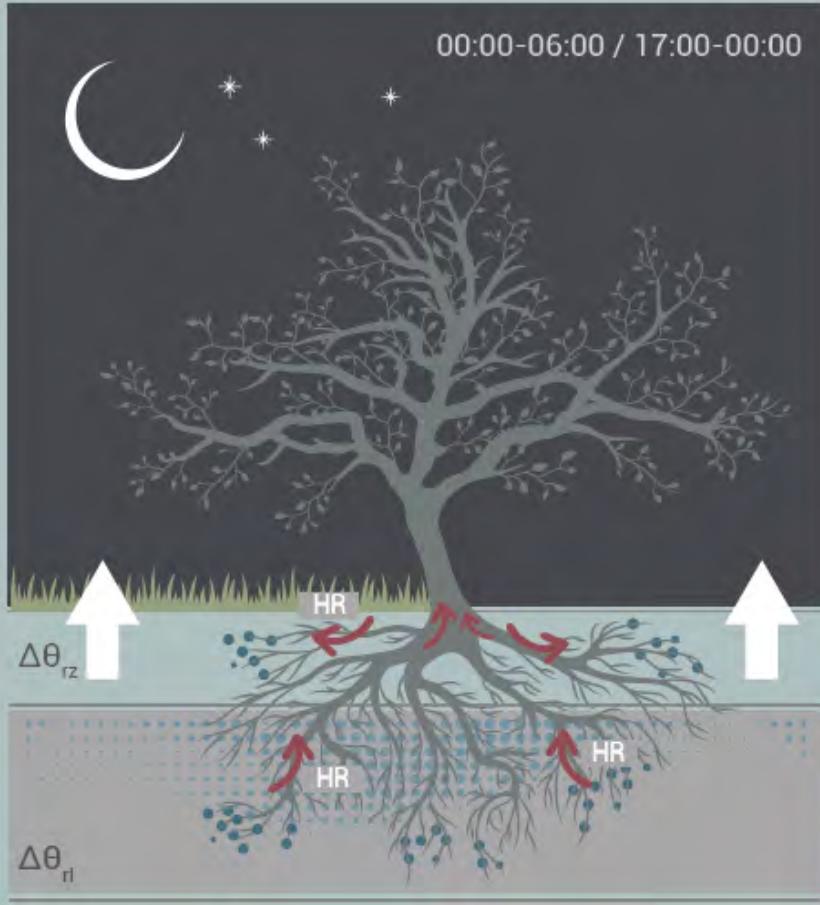


Normalized density of transport roots along 7 m distance from the edge of two tree clumps

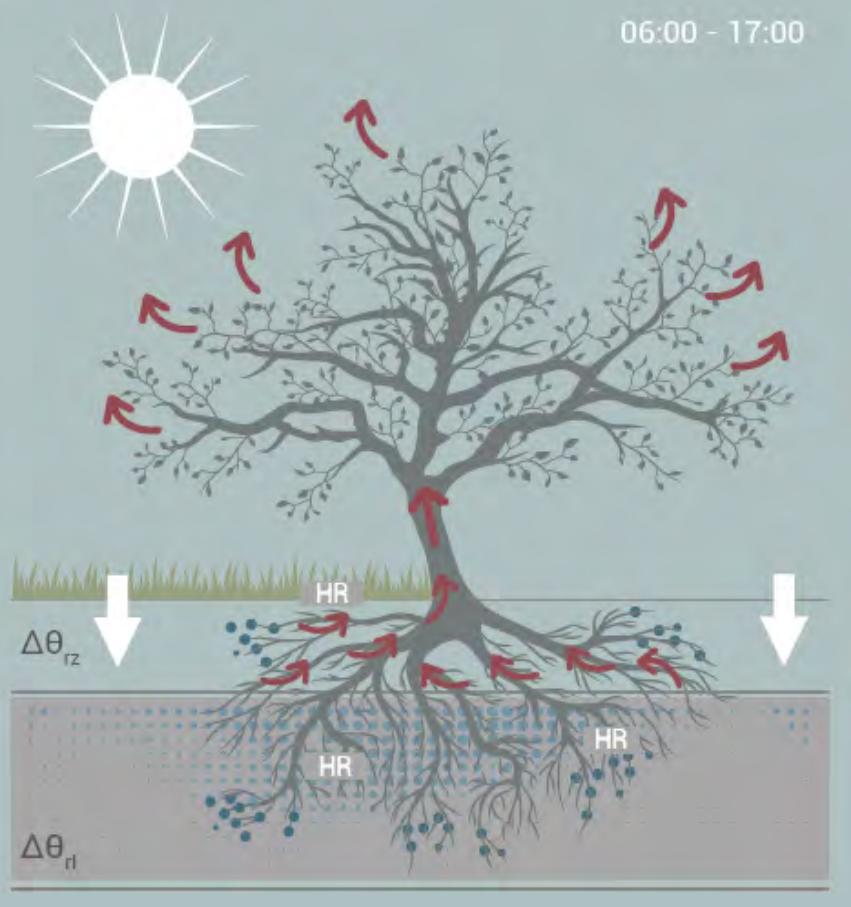


**inverse model electrical resistivity (in Ohm m)
tomography (ERT) images**

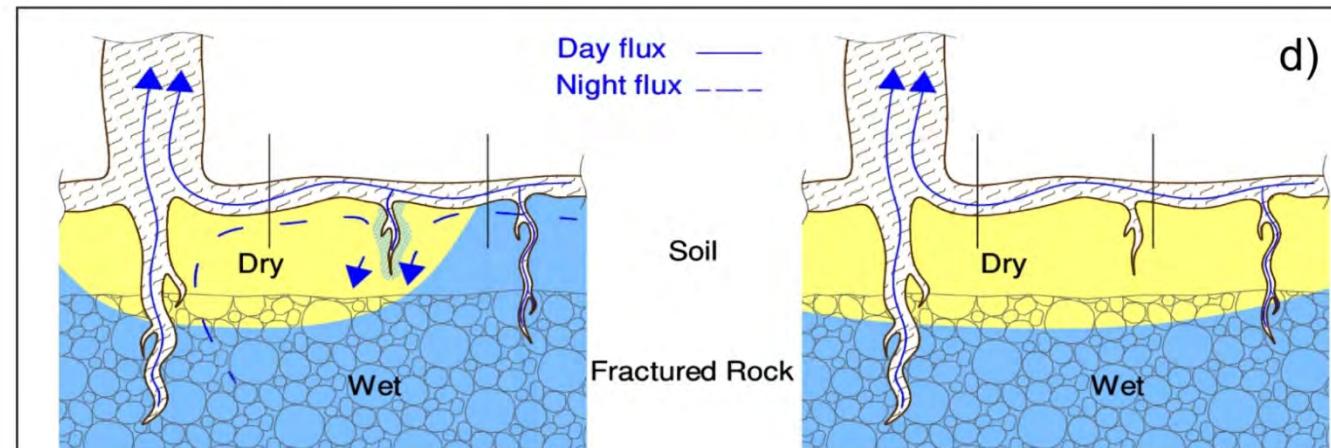
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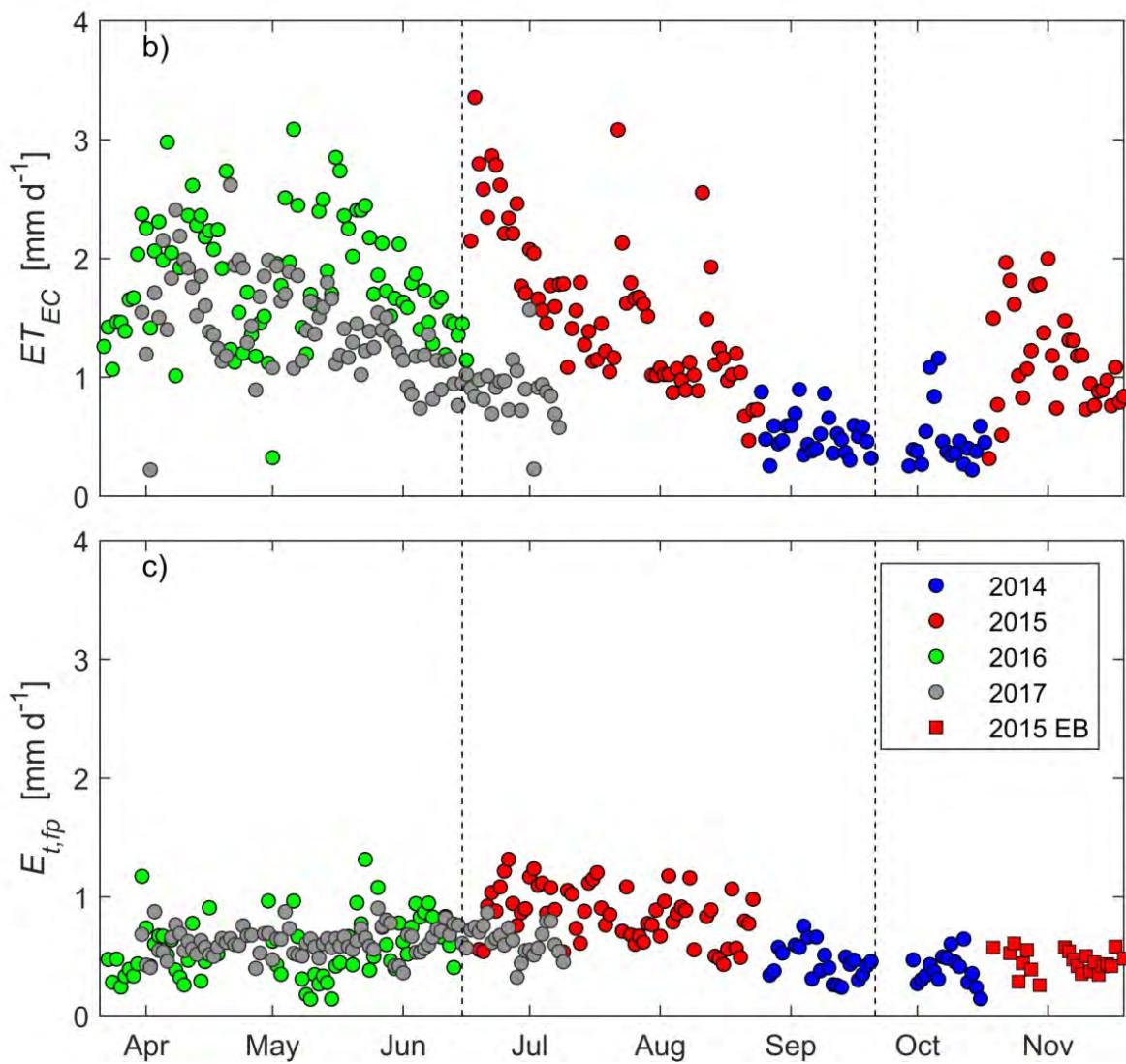
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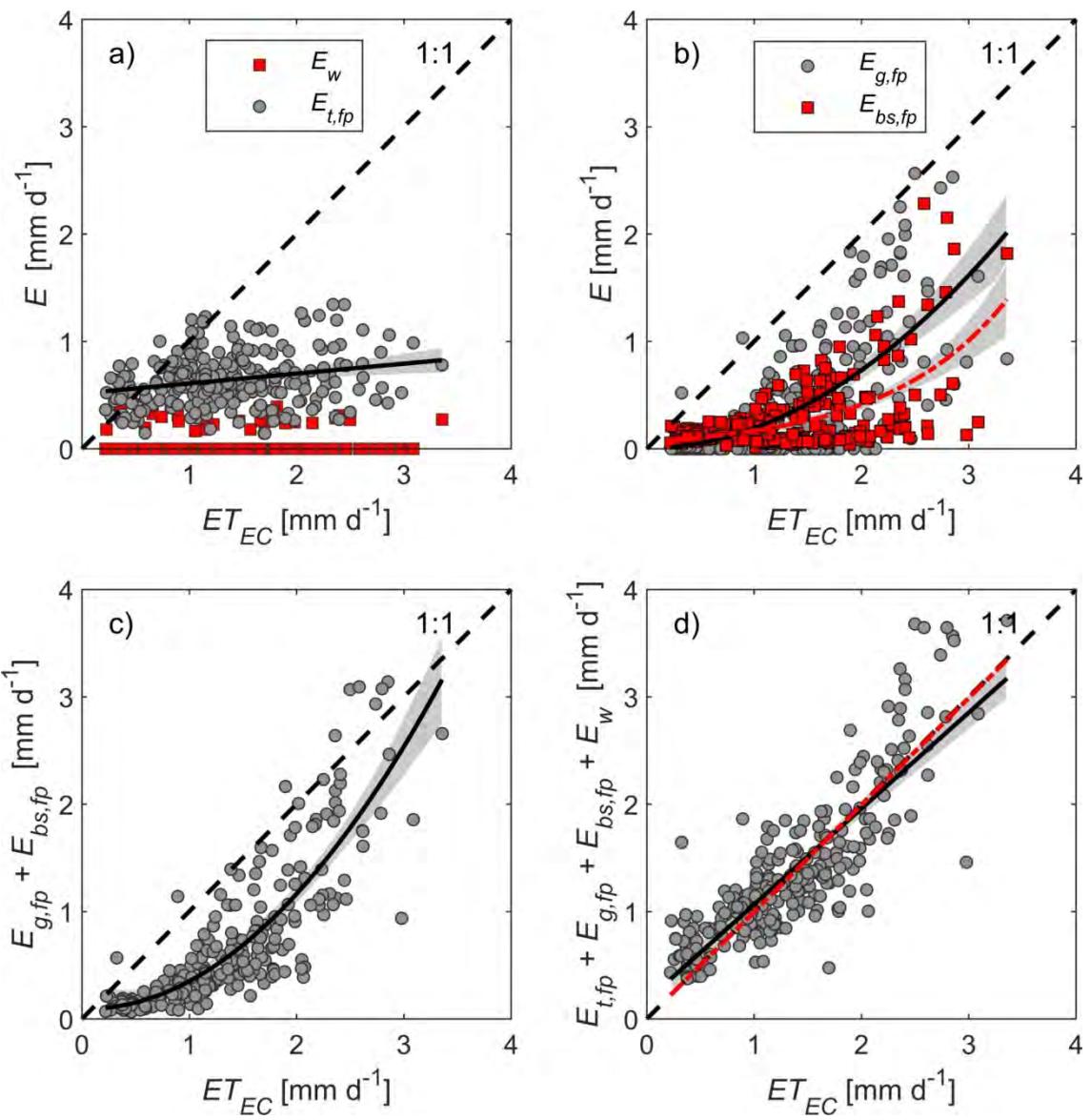
Hydraulic redistribution



Eddy covariance
evapotranspiration

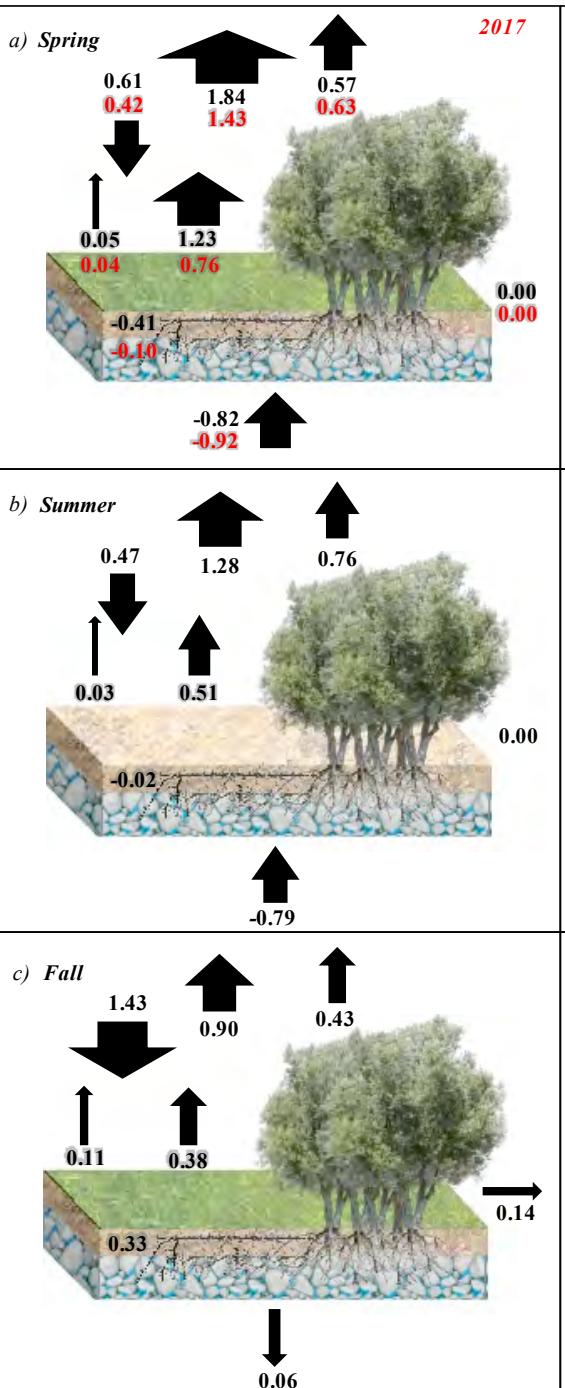


Evapotranspiration components



2014-2016

Orroli, Sardinia



Evapotranspiration and soil water balance components

