Changes in stem water content result in underestimated sap flux density with thermal dissipation probes (TDP)

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Problem
TDP often underestimates sap flux density.

Findings
Water content of the stem decreases during the day.
$\Delta T_{\text{max}}$ increases with decreasing water content.

Conclusion
Daily decrease in water content in the stem results in underestimation of sap flux density with TDP.