Worked examples demonstrating the implementation of the proposed AEV determination framework to a typical experimental S:ψ SWCC dataset (for a silty soil with liquid and plastic limits of LL = 20.5% and PL = 14.5%) reported in Uchaipichat and Khalili [21] are provided in **Figure S1**. Note that the accuracy of the deduced AEV is dependent on the fitting performance of the SWCC fitting function $F(\psi)$ — that is, fitting equations with higher R^2 and lower RMSE values are expected to produce more reliable AEVs.

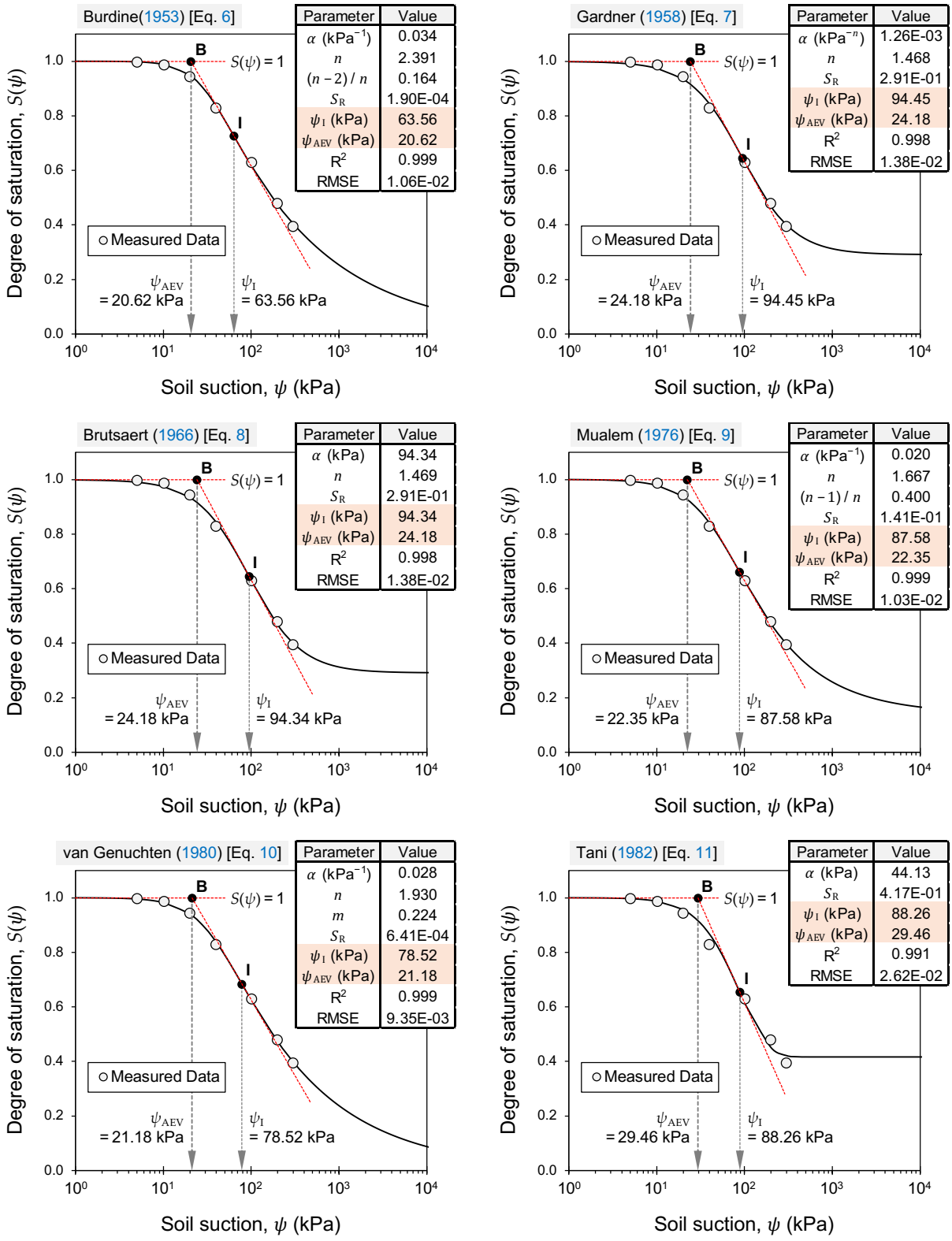

Figure S1. *Continued.*

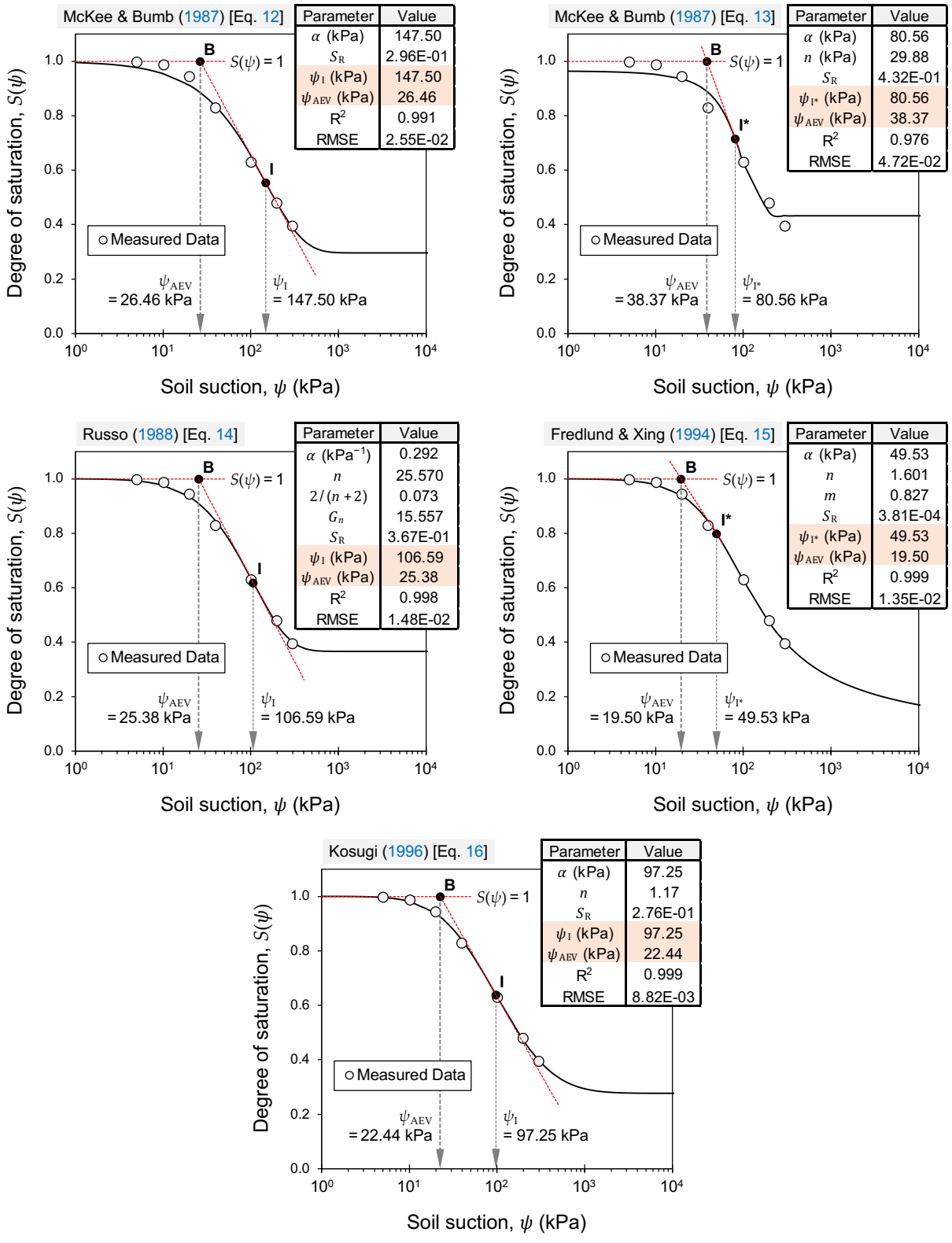

Figure S1. Worked examples demonstrating the implementation of the proposed AEV determination framework (for the eleven SWCC models investigated) to a typical experimental S:ψ dataset.