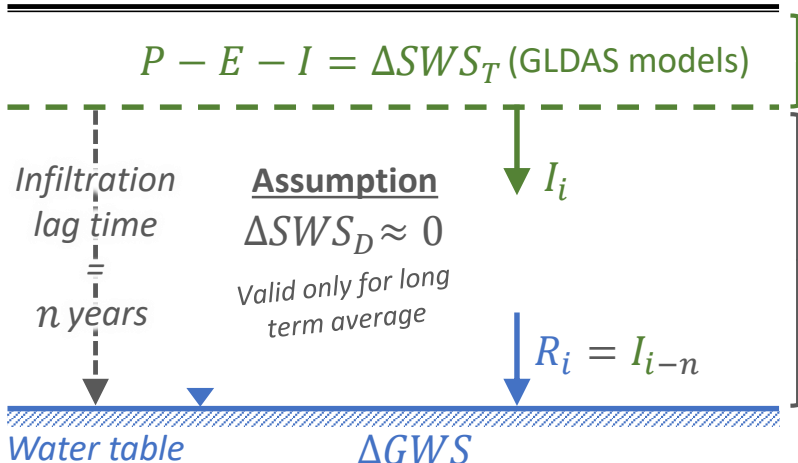


Total vadose zone



$$P - E - I = \Delta SWS_T \text{ (GLDAS models)}$$

Top soil
(≈ 2 m)

*Infiltration
lag time*
 n years

Assumption

$$\Delta SWS_D \approx 0$$

*Valid only for long
term average*

I_i

$$R_i = I_{i-n}$$

**Deep vadose
zone** (≈ 148 m
for Saq-Ram)

Water table

ΔGWS