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*Supplement of*

## **Factors influencing stream baseflow transit times in tropical montane watersheds**

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## Description of Transit Time Distributions

Model	Transit time Distribution $g(\tau)$	Parameters	Mean Transit time
Exponential <sup>a</sup>	$\tau_m^{-1} \exp(-\tau/\tau_m)$	$\tau_m$	$\tau_m$
Gamma <sup>b</sup>	$\frac{\tau^{\alpha-1}}{\beta^\alpha \Gamma(\alpha)} \exp(-\tau/\beta)$	$\alpha, \beta$	$\alpha\beta$
Dispersion <sup>a</sup>	$\left(\frac{4\pi D_p \tau}{\tau_m}\right)^{1/2} \tau^{-1} \exp\left[-\left(1 - \frac{\tau}{\tau_m}\right)^2 \left(\frac{\tau_m}{4D_p \tau}\right)\right]$	$\tau_m, D_p$	$\tau_m$

<sup>a</sup> Maloszewski and Zuber (1982)

<sup>b</sup> Kirchner et al. (2001)