(a) Median travel time (MdTT): time until 50 % of the virtual tracer (I_j) passed in the mass output flux (O_j)
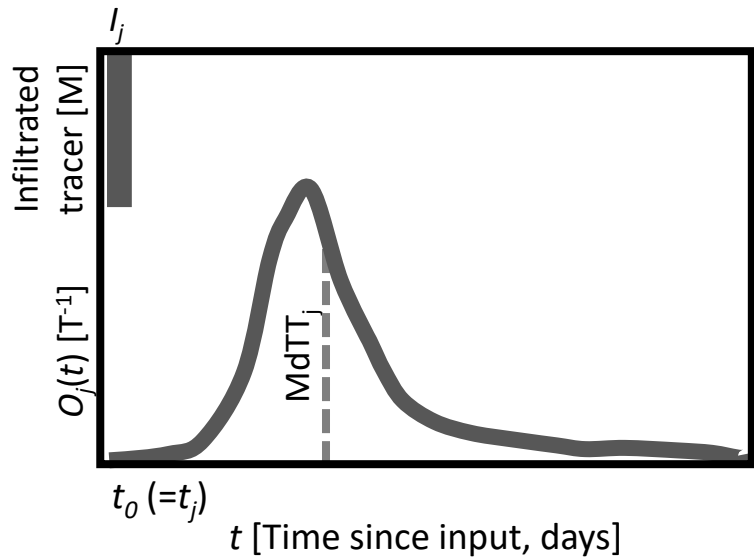
Infiltrated tracer [M]

I_j

$O_j(t)$ [T^{-1}]

MdTT$_j$

t_0 ($=t_j$)

t [Time since input, days]

(b) Median water age (A): age of the 0.5 percentile in the age distribution in outflow flux or storage ($\Sigma(V_j)$)

Infiltrated tracer [M]

I_j I_{j+1} I_{j+2} I_{j+3} I_{j+4}

$\Sigma(V_j)$ [T^{-1}]

A(t_i)

V_{j+4}

V_{j+2}

V_{j+3}

V_{j+1}

V_i

t_i [Day of simulation, date]