

Peatland Decomposition Database

**Litterbag experiments
(with WTD reported)**

**Litterbag experiments
(without WTD info)**

Remaining masses

Remaining masses

PFT/ species

Water table depths

Depth of incubation

Estimated

Minimum water
content at surface

Peat porosity

Modified Granberg Model

Degree of saturation

HPM decomposition module

Average decomposition rate

(μ_k)

$k_0 \sim \text{gamma}(\mu_k)$

Litterbag decomposition model

Initial leaching loss

(l_0)

is prior for

k_0

$$\mu_m(t) = \frac{m_0 - l_0}{(1 + (1 + \alpha)k_0 t)^{\frac{1}{\alpha-1}}}$$