

Parameter	Response of the model	RMSE < 15 %	RMSE < 10 %
C^* ($\mu\text{g m}^{-3}$)	sensitive	2-10	3-10
m_{wall} (mg m^{-3})	not sensitive	1.6-25	1.6-6.4
$1/k_{\text{wall/g}}$ (min)	sensitive	10-30	10-20
k_{OH} ($\text{cm}^3 \text{molecules}^{-1} \text{s}^{-1}$)	not sensitive	$5 \times 10^{-12} - 1 \times 10^{-10}$	$5 \times 10^{-12} - 1 \times 10^{-10}$