

Simulation	Simulation results	Anthropogenic emission	Biogenic emission
BASE	$f_{\text{anth-bio}}$	✓	✓
ANTH	f_{anth}	✓	x
BIO	f_{bio}	x	✓
NEITHER	f_0	x	x

Contribution

$f_{\text{anth-bio}} - f_{\text{bio}}$	Actual contribution of anthropogenic emissions
$f_{\text{anth-bio}} - f_{\text{anth}}$	Actual contribution of biogenic emissions
$f'_0 = f_0$	The contribution of background transport
$f'_{\text{anth}} = f_{\text{anth}} - f_0$	Pure contribution of anthropogenic emissions
$f'_{\text{bio}} = f_{\text{bio}} - f_0$	Pure contribution of biogenic emissions
$f'_{\text{anth-bio}} = f_{\text{anth-bio}} - (f_{\text{anth}} + f_{\text{bio}}) + f_0$	Synergistic contribution of anthropogenic and biogenic emissions