

Climate model:  
HadGEM3-GC3.05

47 parameters  
perturbed across  
model schemes

2800  
model variants  
(unique parameter  
combinations)

Filtered for plausibility  
using atmosphere-only  
experiments

39  
model variants

Filtered for diversity  
using experiments:  
Aerosol ERF  
ERF 4 x CO<sub>2</sub>  
4 °C prescribed SSTs

13 model variants:  
Explore aerosol ERF  
and tropical  
precipitation shifts

1900 to 2100 coupled  
ocean-atmosphere  
simulations

Filtered for plausibility  
using coupled  
ocean-atmosphere  
experiments

1900 to 2005 coupled  
ocean-atmosphere  
simulations

25 diverse and  
plausible model  
variants