Parameter	Description	Default	Min	Max	Units
micro_mg_accre_enhan_fact	Accretion enhancing factor	1	0.1	10	-
micro_mg_autocon_fact	Autoconversion factor	0.01	5e-3	0.2	-
micro_mg_autocon_lwp_exp*	KK2000 LWP exponent	2.47	1.8	3.6	-
micro_mg_autocon_nd_exp*	KK2000 autoconversion factor	-1.1	-2.5	0	-
micro_mg_berg_eff_factor	Bergeron efficiency factor	1	0.1	1	-
micro_mg_dcs	Autoconversion size threshold ice-snow	5e-4	5e-5	1e-3	m
micro_mg_effi_factor	Scale effective radius for optics calculation	1	0.1	2	-
micro_mg_homog_size	Homogeneous freezing ice particle size	2.5e-5	1e-05	2e-4	m
micro_mg_iaccr_factor	Scaling ice/snow accretion	1	0.2	1	-
micro_mg_max_nicons	Max ice number concentration	1e8	1e5	1e10	#/kg
micro_mg_vtrmi_factor	Ice fall speed scaling	1	0.2	5	m/s
seasalt_emis_scale	Seasalt emission scaling factor	1	0.5	2.5	-
microp_aero_npccn_scale	Scale activated liquid number	1	0.33	3	-
microp_aero_wsub_min	Min subgrid velocity for liquid activation	0.2	0	0.5	m/s
microp_aero_wsubi_min	Min subgrid velocity for ice activation	1e-3	0	0.2	m/s
microp_aero_wsub_scale	Subgrid velocity for liquid activation scaling	1	0.1	5	-
microp_aero_wsubi_scale	Subgrid velocity for ice activation scaling	1	0.1	5	-
dust_emis_fact	Dust emissions scaling factor	0.7	0.1	1.2	-
sol_facti_cloud_borne	In-cloud scavenging of cloud-borne modal aerosols	1	0.5	1	-

Table 1: A description of the parameters perturbed, with their ranges.
*These parameters have had their ranges extended from the original CAM6 PPE