Parameter	Meaning	Unit	HILDA	Bern2D	Princeton
H_{mix}	Depth of mixed ocean surface layer	m	75	50	50.9
A_{O}	Ocean surface area	m^2	3.62×10^{14}	3.5375×10^{14}	3.55×10^{14}
k_{g}	Gas exchange coefficient	$\mathrm{yr}^{-1}\,A_{\mathrm{O}}^{-1}$	1/9.06	1/7.46	1/7.66
T^*	Global average ocean surface temperature	°C	18.17	18.30	17.70
				All models	
a_{O}	Ocean fraction of Earth surface	–			0.71
ε	Atmospheric mass of C per mixing ratio	$\mathrm{Gt\,C\,ppm}^{-1}$			2.123
ϱ	Density of ocean water*	$\mathrm{kg\,m}^{-3}$			1028 (1026.5)
c_p	Specific heat capacity of water	$\mathrm{J\,kg}^{-1}\,\mathrm{K}^{-1}$			4000
c_{S}	Mixed-layer heat capacity	$\mathrm{J\,K}^{-1}$			$c_p\,\varrho\,H_{\mathrm{mix}}\,A_{\mathrm{O}}$
$M_{\mu\mathrm{mol}}$	Mass of DIC per micromole	$\mathrm{gC\,\mu mol}^{-1}$			12.0107×10^{-6}
$\mathrm{RF}_{2\times}$	RF per doubling of atm. CO_2	$\mathrm{W\,m}^{-2}$			3.708
$\Delta T_{2\times}$	Equilibrium climate sensitivity for CO_2 doubling	°C			free