

Symbol	Ecological interpretation	Default value
a	the rate that corals are overgrown by macroalgae [$year^{-1}$]	0.1
γ	the rate that macroalgae spread vegetatively over algal turfs [$year^{-1}$]	0.8
r	the rate that corals recruit to and overgrow algal turfs [$year^{-1}$]	1.0
h	the natural mortality rate of corals [$year^{-1}$]	0.44
g	the rate at which herbivores consume macroalgae in the coral-algal model [$year^{-1}$]	

Table 1. Parameters interpretation and default values(Mumby et al., 2007; Li et al., 2014)