

# Perris et al., (in prep) Climate change parameters for 2100

Climate Change Outcome Scenario	Significant Wave Height (m)	Storm Wave Height (m)	Source	Eustatic SLR (m)	Source	Vertical Accretion (m)	Source	Erosion (m)	Source	Total change in MSL (m)	Changes to reef structural complexity	Source
Present (No Change)	1.34	4.8	(Smith et al., 2022),	0	NA	0	NA	0	NA	0	0.9	Monismith et al., (2015)
RCP 2.6 (2100)	2.1	5.6	(IPCC, 2019)	0.43	Shukla et al. (2009)	0.16	Harris et al. (2018b)	0	NA	0.3	0.54	Interpolated
RCP 8.5 (2100)	2.14	5.6	(IPCC, 2019)	0.84	Shukla et al. (2009)	0.1	Interpolated	0.2	Harris et al. (2018b)	0.99	0.1	Sheppard et al. (2005)
Total Disaster (2100)	2.14	5.6	(IPCC, 2019)	1.84	Shukla et al. (2009)	0	Interpolated	0.5	Sheppard et al. (2005)	2.34	0.001	Smyth and Hay (2002)