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Appendicies

A. THRESHOLDS

Table A1: Water Quality Threshold values for each Measure in each Zone (Region/Water Body). Thresholds values are similar to annual Guideline values. Wet and Dry represent Wet and Dry season thresholds respectively. Direction of Failure indicates whether a values higher ('H') or lower ('L') than a Threshold would constitute an exceedence. Range From and Range To represent Thresholds for Measures that have a range of optimum values (such as dissolved oxygen or pH).

Measure	Units	Water Body	Region	Threshold			Direction of Faiure	Justification
				Annual	Dry	Wet		
chl	μgL^{-1}	Enclosed Coastal	Cape York	2.00	2.00	2.00	H	QLD WQ guidelines
chl	μgL^{-1}	Enclosed Coastal	Wet Tropics	1.10	1.10	1.10	H	There is no seasonal adjustment
chl	μgL^{-1}	Enclosed Coastal	Dry Tropics	1.00	1.00	1.00	H	
chl	μgL^{-1}	Enclosed Coastal	Mackay Whitsunday	1.30	1.30	1.30	H	
chl	μgL^{-1}	Enclosed Coastal	Fitzroy	2.00	2.00	2.00	H	
chl	μgL^{-1}	Enclosed Coastal	Burnett Mary	2.00	2.00	2.00	H	
chl	μgL^{-1}	Open Coastal	Cape York	0.45	0.63	0.32	H	GBRMPA WQ guidelines
chl	μgL^{-1}	Open Coastal	Wet Tropics	0.45	0.63	0.32	H	40% higher in summer, 30% lower in winter
chl	μgL^{-1}	Open Coastal	Dry Tropics	0.45	0.63	0.32	H	Here summer is taken as Wet Season
chl	μgL^{-1}	Open Coastal	Mackay Whitsunday	0.45	0.63	0.32	H	and winter is taken as Dry Season
chl	μgL^{-1}	Open Coastal	Fitzroy	0.45	0.63	0.32	H	
chl	μgL^{-1}	Open Coastal	Burnett Mary	0.45	0.63	0.32	H	
chl	μgL^{-1}	Midshelf	Cape York	0.45	0.63	0.32	H	GBRMPA WQ guidelines
chl	μgL^{-1}	Midshelf	Wet Tropics	0.45	0.63	0.32	H	40% higher in summer, 30% lower in winter
chl	μgL^{-1}	Midshelf	Dry Tropics	0.45	0.63	0.32	H	Here summer is taken as Wet Season
chl	μgL^{-1}	Midshelf	Mackay Whitsunday	0.45	0.63	0.32	H	and winter is taken as Dry Season
chl	μgL^{-1}	Midshelf	Fitzroy	0.45	0.63	0.32	H	
chl	μgL^{-1}	Midshelf	Burnett Mary	0.45	0.63	0.32	H	
chl	μgL^{-1}	Offshore	Cape York	0.40	0.56	0.28	H	GBRMPA WQ guidelines
chl	μgL^{-1}	Offshore	Wet Tropics	0.40	0.56	0.28	H	40% higher in summer, 30% lower in winter
chl	μgL^{-1}	Offshore	Dry Tropics	0.40	0.56	0.28	H	Here summer is taken as Wet Season
chl	μgL^{-1}	Offshore	Mackay Whitsunday	0.40	0.56	0.28	H	and winter is taken as Dry Season
chl	μgL^{-1}	Offshore	Fitzroy	0.40	0.56	0.28	H	
chl	μgL^{-1}	Offshore	Burnett Mary	0.40	0.56	0.28	H	
nap	mgL^{-1}	Enclosed Coastal	Cape York	10.00	10.00	10.00	H	QLD WQ guidelines
nap	mgL^{-1}	Enclosed Coastal	Wet Tropics	10.00	10.00	10.00	H	There is no seasonal adjustment and
nap	mgL^{-1}	Enclosed Coastal	Dry Tropics	10.00	10.00	10.00	H	values for CY and WT are not determined
nap	mgL^{-1}	Enclosed Coastal	Mackay Whitsunday	10.00	10.00	10.00	H	Suggest applying same ratio as for turbidity
nap	mgL^{-1}	Enclosed Coastal	Fitzroy	15.00	15.00	15.00	H	between CY/WT and others, i.e (15*10)/6=25
nap	mgL^{-1}	Enclosed Coastal	Burnett Mary	15.00	15.00	15.00	H	NAP is taken as = TSS in this context
nap	mgL^{-1}	Open Coastal	Cape York	2.00	2.40	1.60	H	GBRMPA WQ guidelines
nap	mgL^{-1}	Open Coastal	Wet Tropics	2.00	2.40	1.60	H	20% higher in summer, 20% lower in winter
nap	mgL^{-1}	Open Coastal	Dry Tropics	2.00	2.40	1.60	H	Here summer is taken as Wet Season
nap	mgL^{-1}	Open Coastal	Mackay Whitsunday	2.00	2.40	1.60	H	and winter is taken as Dry Season
nap	mgL^{-1}	Open Coastal	Fitzroy	2.00	2.40	1.60	H	
nap	mgL^{-1}	Open Coastal	Burnett Mary	2.00	2.40	1.60	H	NAP is taken as = TSS in this context
nap	mgL^{-1}	Midshelf	Cape York	2.00	2.40	1.60	H	GBRMPA WQ guidelines
nap	mgL^{-1}	Midshelf	Wet Tropics	2.00	2.40	1.60	H	20% higher in summer, 20% lower in winter
nap	mgL^{-1}	Midshelf	Dry Tropics	2.00	2.40	1.60	H	Here summer is taken as Wet Season
nap	mgL^{-1}	Midshelf	Mackay Whitsunday	2.00	2.40	1.60	H	and winter is taken as Dry Season
nap	mgL^{-1}	Midshelf	Fitzroy	2.00	2.40	1.60	H	
nap	mgL^{-1}	Midshelf	Burnett Mary	2.00	2.40	1.60	H	NAP is taken as = TSS in this context

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Measure	Units	Water Body	Region	Threshold			Direction of Faiure	Justification
				Annual	Dry	Wet		
nap	mgL^{-1}	Offshore	Cape York	0.70	0.84	0.56	H	GBRMPA WQ guidelines
nap	mgL^{-1}	Offshore	Wet Tropics	0.70	0.84	0.56	H	20% higher in summer, 20% lower in winter
nap	mgL^{-1}	Offshore	Dry Tropics	0.70	0.84	0.56	H	Here summer is taken as Wet Season
nap	mgL^{-1}	Offshore	Mackay Whitsunday	0.70	0.84	0.56	H	and winter is taken as Dry Season
nap	mgL^{-1}	Offshore	Fitzroy	0.70	0.84	0.56	H	
nap	mgL^{-1}	Offshore	Burnett Mary	0.70	0.84	0.56	H	NAP is taken as = TSS in this context
ntu	NTU	Enclosed Coastal	Cape York	4.00	4.00	4.00	H	QLD WQ guidelines
ntu	NTU	Enclosed Coastal	Wet Tropics	4.00	4.00	4.00	H	There is no seasonal adjustment
ntu	NTU	Enclosed Coastal	Dry Tropics	4.00	4.00	4.00	H	
ntu	NTU	Enclosed Coastal	Mackay Whitsunday	4.00	4.00	4.00	H	Unclear as to why the CY/WT guidelines
ntu	NTU	Enclosed Coastal	Fitzroy	6.00	6.00	6.00	H	are higher than Southern regions
ntu	NTU	Enclosed Coastal	Burnett Mary	6.00	6.00	6.00	H	
ntu	NTU	Open Coastal	Cape York	1.50	1.80	1.20	H	No guideline available but turbidity needed if logger
ntu	NTU	Open Coastal	Wet Tropics	1.50	1.80	1.20	H	data is to be integrated.
ntu	NTU	Open Coastal	Dry Tropics	1.50	1.80	1.20	H	MMP used a correlation between TSS and NTU
ntu	NTU	Open Coastal	Mackay Whitsunday	1.50	1.80	1.20	H	(based on whole of GBR data) which is also used here
ntu	NTU	Open Coastal	Fitzroy	1.50	1.80	1.20	H	
ntu	NTU	Open Coastal	Burnett Mary	1.50	1.80	1.20	H	Applied 20% higher in summer, 20% lower in winter
ntu	NTU	Midshelf	Cape York	1.50	1.80	1.20	H	No guideline available but turbidity needed if logger
ntu	NTU	Midshelf	Wet Tropics	1.50	1.80	1.20	H	data is to be integrated.
ntu	NTU	Midshelf	Dry Tropics	1.50	1.80	1.20	H	MMP used a correlation between TSS and NTU
ntu	NTU	Midshelf	Mackay Whitsunday	1.50	1.80	1.20	H	(based on whole of GBR data) which is also used here
ntu	NTU	Midshelf	Fitzroy	1.50	1.80	1.20	H	
ntu	NTU	Midshelf	Burnett Mary	1.50	1.80	1.20	H	Applied 20% higher in summer, 20% lower in winter
ntu	NTU	Offshore	Cape York	1.00	1.20	0.80	H	No guideline available but turbidity needed if logger
ntu	NTU	Offshore	Wet Tropics	1.00	1.20	0.80	H	data is to be integrated.
ntu	NTU	Offshore	Dry Tropics	1.00	1.20	0.80	H	MMP used a correlation between TSS and NTU
ntu	NTU	Offshore	Mackay Whitsunday	1.00	1.20	0.80	H	(based on whole of GBR data) which is also used here
ntu	NTU	Offshore	Fitzroy	1.00	1.20	0.80	H	
ntu	NTU	Offshore	Burnett Mary	1.00	1.20	0.80	H	Applied 20% higher in summer, 20% lower in winter
sd	m	Enclosed Coastal	Cape York	1.00	1.00	1.00	L	QLD WQ guidelines
sd	m	Enclosed Coastal	Wet Tropics	1.00	1.00	1.00	L	There is no seasonal adjustment
sd	m	Enclosed Coastal	Dry Tropics	1.50	1.50	1.50	L	
sd	m	Enclosed Coastal	Mackay Whitsunday	1.00	1.00	1.00	L	Unclear as to why the CY/WT guidelines
sd	m	Enclosed Coastal	Fitzroy	1.50	1.50	1.50	L	are lower than Southern regions
sd	m	Enclosed Coastal	Burnett Mary	1.50	1.50	1.50	L	
sd	m	Open Coastal	Cape York	10.00	10.00	10.00	L	GBRMPA WQ guidelines
sd	m	Open Coastal	Wet Tropics	10.00	10.00	10.00	L	There is no seasonal adjustment
sd	m	Open Coastal	Dry Tropics	10.00	10.00	10.00	L	
sd	m	Open Coastal	Mackay Whitsunday	10.00	10.00	10.00	L	
sd	m	Open Coastal	Fitzroy	10.00	10.00	10.00	L	
sd	m	Open Coastal	Burnett Mary	10.00	10.00	10.00	L	
sd	m	Midshelf	Cape York	10.00	10.00	10.00	L	GBRMPA WQ guidelines
sd	m	Midshelf	Wet Tropics	10.00	10.00	10.00	L	There is no seasonal adjustment

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Measure	Units	Water Body	Region	Threshold			Direction of Faiure	Justification
				Annual	Dry	Wet		
sd	m	Midshelf	Dry Tropics	10.00	10.00	10.00	L	
sd	m	Midshelf	Mackay Whitsunday	10.00	10.00	10.00	L	
sd	m	Midshelf	Fitzroy	10.00	10.00	10.00	L	
sd	m	Midshelf	Burnett Mary	10.00	10.00	10.00	L	
sd	m	Offshore	Cape York	17.00	17.00	17.00	L	GBRMPA WQ guidelines
sd	m	Offshore	Wet Tropics	17.00	17.00	17.00	L	There is no seasonal adjustment
sd	m	Offshore	Dry Tropics	17.00	17.00	17.00	L	
sd	m	Offshore	Mackay Whitsunday	17.00	17.00	17.00	L	
sd	m	Offshore	Fitzroy	17.00	17.00	17.00	L	
sd	m	Offshore	Burnett Mary	17.00	17.00	17.00	L	
NOx	μgL^{-1}	Enclosed Coastal	Cape York	10.00	10.00	10.00	H	Old MMP guidelines
NOx	μgL^{-1}	Enclosed Coastal	Wet Tropics	10.00	10.00	10.00	H	There is no seasonal adjustment
NOx	μgL^{-1}	Enclosed Coastal	Dry Tropics	3.00	3.00	3.00	H	
NOx	μgL^{-1}	Enclosed Coastal	Mackay Whitsunday	3.00	3.00	3.00	H	
NOx	μgL^{-1}	Enclosed Coastal	Fitzroy	3.00	3.00	3.00	H	
NOx	μgL^{-1}	Enclosed Coastal	Burnett Mary	3.00	3.00	3.00	H	
NOx	μgL^{-1}	Open Coastal	Cape York	2.00	2.00	2.00	H	Old MMP guidelines
NOx	μgL^{-1}	Open Coastal	Wet Tropics	2.00	2.00	2.00	H	There is no seasonal adjustment
NOx	μgL^{-1}	Open Coastal	Dry Tropics	3.00	3.00	3.00	H	
NOx	μgL^{-1}	Open Coastal	Mackay Whitsunday	3.00	3.00	3.00	H	
NOx	μgL^{-1}	Open Coastal	Fitzroy	3.00	3.00	3.00	H	
NOx	μgL^{-1}	Open Coastal	Burnett Mary	3.00	3.00	3.00	H	
NOx	μgL^{-1}	Midshelf	Cape York	2.00	2.00	2.00	H	Old guidelines
NOx	μgL^{-1}	Midshelf	Wet Tropics	2.00	2.00	2.00	H	There is no seasonal adjustment
NOx	μgL^{-1}	Midshelf	Dry Tropics	2.00	2.00	2.00	H	
NOx	μgL^{-1}	Midshelf	Mackay Whitsunday	2.00	2.00	2.00	H	
NOx	μgL^{-1}	Midshelf	Fitzroy	2.00	2.00	2.00	H	
NOx	μgL^{-1}	Midshelf	Burnett Mary	2.00	2.00	2.00	H	
NOx	μgL^{-1}	Offshore	Cape York	2.00	2.00	2.00	H	Old MMP guidelines
NOx	μgL^{-1}	Offshore	Wet Tropics	2.00	2.00	2.00	H	There is no seasonal adjustment
NOx	μgL^{-1}	Offshore	Dry Tropics	2.00	2.00	2.00	H	
NOx	μgL^{-1}	Offshore	Mackay Whitsunday	2.00	2.00	2.00	H	
NOx	μgL^{-1}	Offshore	Fitzroy	2.00	2.00	2.00	H	
NOx	μgL^{-1}	Offshore	Burnett Mary	2.00	2.00	2.00	H	

B. EREEFS MODELS

Table B2: eReefs regional biogeochemical simulation catalog.

Simulation name	Projects	Date range	Delivery	Notes/Improvements
GBR4_H1p85_B1p0_Cbas_Dhnd	SIEF	Jan 1, 2011 – Jun 30, 2014	Available on NCI	Simulation delivered as part of SIEF project (previously known as 926). Skill assessment available in SIEF report.