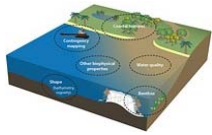


# MARINE REMOTE SENSING - MAPPING CAPABILITY MATRIX

BRG-UQ September 2014

**Table Key:** O= operational, O\$ = operational but cost prohibitive, f = feasible but not operational, nf =not feasible, fp=partly feasible, OE=possible if extent is bigger then several pixels

SENSOR Type Platform		PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >	Parameter and environment	Passive							Active				Field				
				Multi-spectral			Hyper-spectral			Photogram	Radar		Laser scanning	Acoustic	Visual				
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling	
				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
				Icon															
presence/absence  Presence/absence	Intertidal	Exposed			O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	nf	nf	nf	
		Submerged	Clear		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	O	O	f	O
			Clear-turbid		O\$	O\$	O	O	f	nf	O	nf	nf	nf	nf	O	O	f	O
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	f	O
	Subtidal	Shallow	Clear		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	fp	O	O\$	O\$	O
			Clear-turbid		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	fp	O	O\$	O\$	O
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O\$	O\$	O
		Deep	Clear		O\$	O\$	O	O\$	f	nf	nf	nf	nf	nf	f	O	O	O	nf
			Clear-turbid		O\$	O\$	nf	O\$	f	nf	nf	nf	nf	nf	f	O	O	O	nf
	Turbid			nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf	
			Exposed			O\$	O\$	O	O\$	f	OE	f	nf	nf	nf	nf	nf	nf	nf

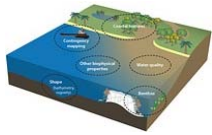


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SENSOR Type Platform				Passive							Active				Field					
				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser	Acoustic	Visual				
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling		
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Parameter and environment				Icon																
 Percent cover	Intertidal	Submerged	Clear		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	O	O	f	O	
			Clear-turbid		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	nf	O	O	f	O
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	nf	nf
	Subtidal	Shallow	Clear		O	O	O	O\$	f	OE	O	nf	nf	nf	fp	O	O	O	nf	
			Clear-turbid		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	fp	O	O	O	nf	
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O	nf	nf	
		Deep	Clear		O	O	O	O\$	f	nf	nf	nf	nf	nf	f	O	O	O	nf	
			Clear-turbid		nf	nf	O	O\$	f	nf	nf	nf	nf	nf	f	O	O	O	nf	
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	nf	nf	
	Intertidal	Exposed			O	O	nf	O	nf	nf	nf	fp	nf	nf	nf	nf	nf	nf	nf	nf
Clear			O	O	nf	O	nf	nf	nf	fp	nf	nf	nf	nf	O	O	f	O		

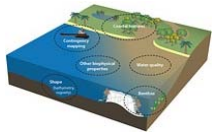


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BRG-UQ September 2014

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SENSOR Type Platform						Passive							Active				Field				
						Multi-spectral			Hyper-spectral				Photogram	Radar		Laser	Acoustic	Visual			
						Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling	
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >						Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Parameter and environment			Icon																		
Seagrass habitats	cover type (to species)	Intertidal	Submerged	Clear-turbid		O	O	nf	O	nf	nf	fp	nf	nf	nf	nf	O	O	f	O	
				Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O
		Subtidal	Shallow	Clear		O	O	nf	O	nf	nf	fp	nf	nf	nf	fp	O	O	O	nf	
				Clear-turbid		O	O	nf	O	nf	nf	fp	nf	nf	nf	fp	O	O	O	nf	
				Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O	nf	nf	
			Deep	Clear		O	O	nf	O	nf	nf	fp	nf	nf	nf	f	nf	O	O	nf	
				Clear-turbid		nf	nf	nf	O	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf	
				Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	nf	nf	
		Intertidal	Exposed	Clear		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	nf
	Submerged			Clear		nf	nf	nf	nf	nf	nf	nf	nf	n	n	n	n	O	nf	O	O
Submerged	Clear-turbid				nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	nf	nf	

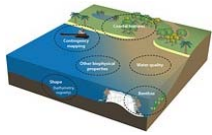


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SENSOR Type Platform				Passive							Active				Field						
				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser green	Acoustic	Visual					
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling			
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Parameter and environment				Icon																	
Structure type: like species Cymodocea, etc)	Seagrass physical structure small growing cryptic species Halophila / Halodule uncinata (narrow))	Subtidal	Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	
			Shallow	Clear		nf	nf	nf	nf	nf	nf	nf	nf	n	n	n	n	nf	nf	O	O
				Clear-turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf
		Turbid			nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf
		Deep	Clear		nf	nf	nf	nf	nf	nf	nf	nf	n	n	n	n	nf	nf	nf	O	
			Clear-turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf
	Intertidal	Exposed			O\$	O\$	O	O\$	f	OE	f	nf	nf	nf	nf	O	nf	nf	nf		
		Submerged	Clear		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	O	nf	f	O		
			Clear-turbid		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	O	nf	f	O		
Turbid				nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	f	O			

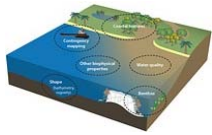


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SENSOR Type Platform			Passive							Active				Field					
			Multi-spectral			Hyper-spectral				Photogram	Radar		Laser	Acoustic	Visual				
			Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne		Airborne	Satellite			Airborne	Boat/helicopter	AUV or ROV	Diving	Snorkelling
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >			Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Parameter and environment			Icon																
Seagrass physical structure large growing strap (Zostera capricorni, Enhalus e	Subtidal	Shallow	Clear	O	O	O	O\$	f	OE	O	nf	nf	nf	fp	O	nf	O	nf	
			Clear-turbid	O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	fp	O	nf	O	nf	
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	nf	O	nf
		Deep	Clear	O	O	O	O\$	f	nf	nf	nf	nf	nf	nf	f	O	nf	O	nf
			Clear-turbid	nf	nf	O	O\$	f	nf	nf	nf	nf	nf	nf	f	O	nf	O	nf
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	nf	O	nf
	Intertidal	Exposed		Clear	O	O	nf	O	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf
		Submerged	Clear	f	O	nf	O	nf	nf	O	nf	nf	nf	nf	nf	O	f	f	O
			Clear-turbid	f	O	nf	O	nf	nf	O	nf	nf	nf	nf	nf	O	f	f	O
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	f	f	O
			Clear	O	O	nf	O	nf	nf	nf	nf	nf	nf	nf	fp	O	O	O	nf

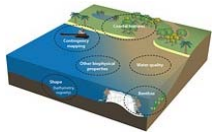


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SENSOR Type Platform			PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >			Parameter and environment  Icon			Passive				Active				Field						
									Multi-spectral		Hyper-spectral		Photogram	Radar		Laser	Acoustic	Visual					
									Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling
									Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Biomass	Subtidal	Shallow	Clear-turbid	O	O	nf	O	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O	O	nf			
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O	O	nf		
		Deep	Clear	O	O	nf	O	nf	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf				
			Clear-turbid	nf	nf	nf	O	nf	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf				
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	nf	nf				
		Intertidal	Exposed			O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	nf	nf	nf	nf	nf		
	Submerged		Clear	O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	nf	O	f	f	O				
			Clear-turbid	O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	nf	O	f	f	O				
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	f	f	O				
	Shallow	Clear	O	O	O	O\$	f	OE	O	nf	nf	nf	nf	nf	O	O	O	nf					
Clear-turbid		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	nf	O	O	O	nf						

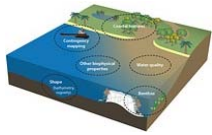


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SENSOR Type Platform				Passive							Active				Field							
				Multi-spectral			Hyper-spectral				Photogrammetry	Radar		Laser scanning	Acoustic	Visual						
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling				
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Parameter and environment		Icon																				
Cyano bacterial bloom (e.g. <i>Lyngbya</i> mats)	Composition and Biomass 	Subtidal	Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	O	nf		
			Deep	Clear		O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	O	O	O	O	nf	
				Clear-turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	O	nf
				Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	O	nf
	Intertidal	Exposed			fp	fp	nf	fp	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf		
		Submerged	Clear		fp	fp	nf	fp	nf	nf	nf	nf	nf	nf	nf	O	f	f	O			
			Clear-turbid		fp	fp	nf	fp	nf	nf	nf	nf	nf	nf	nf	O	f	f	O			
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	f	f	O			
		Subtidal	Shallow	Clear		fp	fp	fp	fp	nf	nf	nf	nf	nf	nf	fp	O	O	O	nf		
	Clear-turbid				nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O	O	nf			
	Turbid				nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O	O	nf			



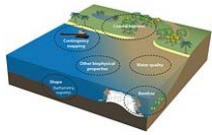
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SENSOR Type Platform			PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >			Parameter and environment			Passive			Active			Field								
									Multi-spectral			Hyper-spectral			Photogram	Radar		Laser	Acoustic	Visual			
									Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling
			Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.						
			Icon																				
Benthos	Cover type at reef system scale	Subtidal	Deep	Clear		nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf				
				Clear-turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf			
				Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf			
		Intertidal	Exposed			O\$	O\$	O\$	O\$	O	O	O\$	nf	nf	nf	nf	nf	nf	nf	nf			
			Submerged	Clear		O\$	O\$	O\$	O\$	O	O	O\$	nf	nf	nf	nf	nf	nf	nf	nf			
				Clear-turbid		O\$	O\$	O\$	O\$	O	O	O\$	nf	nf	nf	nf	nf	nf	nf	nf			
	Turbid			nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf					
	Subtidal	Shallow	Clear		O\$	O\$	O\$	O\$	O\$	O	O	nf	nf	nf	nf	nf	nf	nf	nf				
			Clear-turbid		O\$	O\$	O\$	O\$	O\$	O	O	nf	nf	nf	nf	nf	nf	nf	nf				
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf				
			Clear		O\$	O\$	O\$	O\$	O\$	O	nf	nf	nf	nf	f	nf	nf	nf	nf				



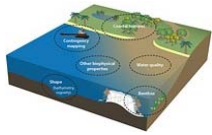


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						Multi-spectral		Photogram	Radar		Laser	Acous	Visual							
						Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/ helicopter	AUV or ROV	Diving	Snorkelling
Parameter and environment			Icon			Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
cover type at reef scale	Deep	Clear-turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	nf	nf	nf
		Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	nf	nf
	Intertidal	Exposed			O\$	O\$	O	O\$	O\$	OE	O	nf	nf	f	nf	nf	nf	nf	nf	nf
		Submerged	Clear		O\$	O\$	O	O\$	O\$	OE	O	nf	nf	f	nf	O	nf	nf	nf	
			Clear-turbid		O\$	O\$	O\$	O\$	O\$	OE	O	nf	nf	nf	nf	O	nf	nf	nf	
	Subtidal	Shallow	Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	nf	nf	
			Clear		O\$	O\$	O	O\$	O\$	OE	O	nf	nf	f	fp	O	nf	nf	nf	
			Clear-turbid		O\$	O\$	O	O\$	O\$	OE	O	nf	nf	nf	fp	O	nf	nf	nf	
		Deep	Clear		O\$	O\$	O	O\$	O\$	OE	nf	nf	nf	nf	f	nf	nf	nf	nf	
			Clear-turbid		O\$	O\$	O	O\$	O\$	OE	nf	nf	nf	nf	f	nf	nf	nf	nf	

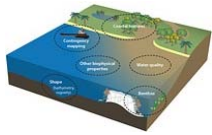


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				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser green	Acoustic	Visual			
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling	
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Parameter and environment				Icon															
cover type at geomorphic zone scale	Intertidal	Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	nf	nf	nf
		Exposed			O\$	O\$	O	O\$	O\$	OE	O	nf	nf	f	nf	nf	nf	nf	nf
	Submerged	Clear		O\$	O\$	O	O\$	O\$	OE	O	nf	nf	f	nf	O	O\$	O\$	O\$	O\$
		Clear-turbid		O\$	O\$	O\$	O\$	O\$	OE	O	nf	nf	nf	nf	O	O\$	O\$	O\$	O\$
		Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O\$	O\$	O\$	O\$
	Subtidal	Shallow	Clear		O\$	O\$	O	O\$	O\$	OE	O	nf	nf	f	fp	O	O\$	O\$	nf
			Clear-turbid		O\$	O\$	O	O\$	O\$	OE	O	nf	nf	nf	fp	O	O\$	O\$	nf
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O\$	O\$	nf
		Deep	Clear		O\$	O\$	O	O\$	O\$	OE	nf	nf	nf	nf	f	nf	O\$	O\$	nf
			Clear-turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O\$	O\$	nf
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O\$	nf	nf

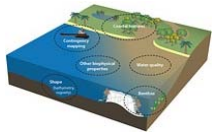


# MARINE REMOTE SENSING - MAPPING CAPABILITY MATRIX

BRG-UQ September 2014

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SENSOR Type Platform		PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >		Parameter and environment		Passive		Active				Field										
						Multi-spectral			Hyper-spectral			Radar		Laser green		Acoustic		Visual				
						Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling		
				Icon		Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
% cover for benthic community  Percent cover 	Intertidal	Exposed				O\$	O	nf	O\$	nf	nf	O	nf	nf	f	nf	O	nf	nf	nf		
		Submerged	Clear				O\$	O	nf	O\$	nf	nf	O	nf	nf	nf	nf	O	O\$	O\$	O\$	
			Clear-turbid					O\$	O	nf	O\$	nf	nf	O	nf	nf	nf	nf	O	O\$	O\$	O\$
	Turbid						nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O\$	O\$	O\$	
	Subtidal	Shallow	Clear				O\$	O	nf	O\$	nf	nf	O	nf	nf	nf	fp	O	O\$	O\$	f	
			Clear-turbid					O\$	O	nf	O\$	nf	nf	O	nf	nf	nf	fp	O	O\$	O\$	f
			Turbid					nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	nf	O	nf	nf
		Deep	Clear					fp	fp	nf	fp	nf	nf	fp	nf	nf	nf	f	nf	O	O	nf
			Clear-turbid					fp	fp	nf	fp	nf	nf	fp	nf	nf	nf	f	nf	O	O	nf
			Turbid					nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	nf	nf
		Exposed				nf	f	f	f	f	nf	nf	nf	nf	f	nf	nf	nf	nf	nf		

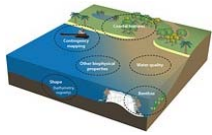


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SENSOR Type Platform				Passive							Active				Field						
				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser	Acoustic	Visual					
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne		Airborne	Satellite			Airborne	Boat/helicopter	AUV or ROV	Diving	Snorkelling	
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Parameter and environment				Icon																	
cover type at benthic community sca   Cover type  	Intertidal	Submerged	Clear	nf	f	f	f	f	nf	nf	nf	nf	nf	nf	nf	O	f	f	O		
			Clear-turbid	nf	nf	nf	f	f	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	f	f	O
			Turbid	nf	nf	nf	f	f	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	f	f	O
	Subtidal	Shallow	Clear	nf	f	f	f	f	nf	nf	nf	nf	nf	fp	O	O	O	nf			
			Clear-turbid	nf	nf	nf	f	f	nf	nf	nf	nf	nf	nf	fp	O	O	O	nf		
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	O	O	nf		
		Deep	Clear	nf	nf	nf	f	f	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf		
			Clear-turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	O	nf		
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	O	nf	nf		
	at Reef	Intertidal	Exposed	fp	nf	nf	nf	nf	nf	fp	nf	nf	nf	nf	nf	nf	O\$	O\$	O\$		
			Clear	fp	nf	nf	nf	nf	nf	fp	nf	nf	nf	nf	nf	nf	O\$	O\$	O\$		

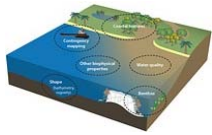


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SENSOR Type Platform						Passive							Active				Field						
						Multi-spectral			Hyper-spectral				Photogram	Radar		Laser scanning	Acoustic	Visual					
						Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne		Airborne	Satellite			Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >						Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Parameter and environment			Icon																				
Cover type Patch Scale  	Intertidal	Submerged	Clear-turbid		fp	nf	nf	nf	nf	nf	fp	nf	nf	nf	nf	nf	nf	O\$	O\$	O\$			
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O\$	O\$	O\$	
	Subtidal	Shallow	Clear		fp	nf	nf	nf	nf	nf	fp	nf	nf	nf	nf	nf	nf	nf	O\$	O\$	f		
			Clear-turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O\$	O\$	f	
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O\$	O\$	f	
		Deep	Clear		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O\$	O\$	nf	
			Clear-turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O\$	O\$	nf
			Turbid		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O\$	O\$	nf
	Low Extent Coral Bleaching	Exposed			nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O\$		
		submerged			nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	nf	nf	O\$	O\$	O\$		

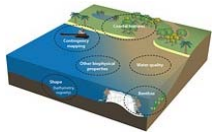


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BRG-UQ September 2014

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SENSOR Type Platform				Passive							Active				Field				
				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser green	Acous	Visual			
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling	
PIXEL SIZE		Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >		Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Parameter and environment		Icon																	
Moderate bleaching 	Intertidal	Exposed		fp	f	fp	f	f	fp	O	nf	nf	f	nf	nf	nf	nf	nf	
		Submerged	Clear	nf	nf	nf	nf	nf	nf	nf	O	nf	nf	nf	nf	O	f	f	O\$
			Clear-turbid	nf	nf	nf	nf	nf	nf	nf	O	nf	nf	nf	nf	O	f	f	O\$
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	f	O
	Subtidal	Shallow	Clear	nf	nf	nf	f	nf	fp	O	nf	nf	nf	nf	O\$	O\$	O\$	nf	
			Clear-turbid	nf	nf	nf	nf	nf	nf	O	nf	nf	nf	nf	O\$	O\$	O\$	nf	
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	nf
		Deep	Clear	nf	nf	nf	f	nf	fp	fp	nf	nf	nf	nf	nf	nf	O	O	nf
			Clear-turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	nf
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	nf
Exposed		fp	f	fp	f	f	fp	O	nf	nf	f	nf	nf	nf	nf	nf	nf		

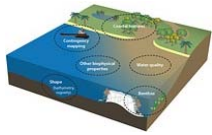


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SENSOR Type Platform				Passive							Active				Field					
				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser	Acous	Visual				
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling		
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Parameter and environment				Icon																
Severe Coral Bleaching 	Intertidal	Submerged	Clear	fp	f	fp	f	f	fp	O	nf	nf	nf	nf	O\$	f	f	O\$		
			Clear-turbid	fp	f	fp	f	f	fp	O	nf	nf	nf	nf	O\$	f	f	O\$		
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	f	f	O	
	Subtidal	Shallow	Clear	fp	f	fp	f	f	fp	f	nf	nf	nf	nf	O\$	O\$	O\$	f		
			Clear-turbid	nf	nf	nf	nf	nf	nf	f	nf	nf	nf	nf	O\$	O\$	O\$	f		
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	nf	
		Deep	Clear	fp	f	fp	f	f	fp	O	nf	nf	nf	nf	nf	O	O	nf		
			Clear-turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O	nf	
			Turbid	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	nf	nf	
	Predicting Coral Bleaching	Degree Heating Weeks			nf	f	f	f	f	O	nf	nf	nf	nf	f	nf	nf	nf		
Temperature			nf	f	f	f	f	O	nf	nf	nf	nf	f	nf	nf	nf				



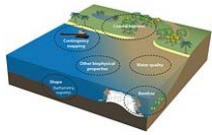
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SENSOR Type Platform		Icon	Passive							Active				Field					
			Multi-spectral			Hyper-spectral				Photogram	Radar		Laser green	Acoustic	Visual				
			Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne		Airborne	Satellite			Airborne	Boat/helicopter	AUV or ROV	Diving	Snorkelling
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >			Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Parameter and environment		Icon																	
	Pre-C	Blue	Hotspots																
Event based mapping	River - sediment discharge plume mapping			O\$	O\$	O	O\$	f	OE	O	nf	nf	nf	nf	O	nf	nf	nf	
	Ship Grounding			O\$	O	OE	O\$	f	OE	O\$	nf	nf	nf	O\$	O	O\$	O\$	O	
	Oil spill			O\$	O	OE	O\$	nf	OE	O\$	O	O	nf	nf	O	nf	nf	nf	
	Cyclone/Hurricane impact			O	O	nf	O\$	nf	nf	O	nf	nf	nf	O\$	O	O\$	O\$	O\$	
Mangroves		% cover			O\$	O	OE	O\$	f	OE	O	O	O	nf	nf	nf	nf	nf	
		Composition to species level			O\$	O	OE	O\$	f	nf	O	O	O	O	nf	nf	nf	nf	nf
		Biomass			O\$	O	OE	O\$	f	nf	O	O	O	O	nf	nf	nf	nf	nf



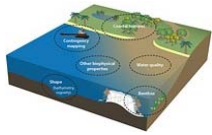


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SENSOR Type Platform		Icon	Passive							Active				Field					
			Multi-spectral			Hyper-spectral				Photogram	Radar		Laser	Acoustic	Visual				
			Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne		Airborne	Satellite			Airborne	Boat/helicopter	AUV or ROV	Diving	Snorkelling
<b>PIXEL SIZE</b> Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >			Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
<b>Parameter and environment</b>		<b>Icon</b>																	
<b>Saltmarsh</b>	% cover		O\$	O	OE	O\$	f	OE	O	O	O	O	nf	nf	nf	nf	nf		
	Cover type		O\$	O	OE	O\$	f	nf	O	O	O	nf	nf	nf	nf	nf	nf		
	Biomass		O\$	O	OE	O\$	f	nf	O	O	O	nf	nf	nf	nf	nf	nf		
<b>Coastline</b>	Mean high and/or low water marks		O\$	O	OE	O\$	f	OE	O\$	O	O	O	nf	nf	nf	nf	nf		
<b>Shape</b>	<b>Bathymetry</b> 	Coastal	Deep	Brown		nf	nf	nf	nf	nf	nf	nf	nf	fp	O	nf	O	nf	nf
			Deep	Blue/Green		nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	nf	O	nf
		Shallow	Blue/Green		O\$	O\$	O	O\$	O	nf	nf	nf	nf	O	O	nf	O	nf	nf
	Ocean	Deep	Blue		nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	nf	O	nf	nf
<b>Rugosity</b> 	Coastal	Deep	Brown		nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	nf	O	O	nf
			Blue/Green		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	nf	O	O

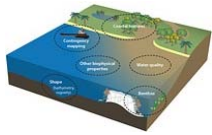


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				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser	Acoustic	Visual				
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne		Airborne	Satellite			Airborne	Boat/helicopter	AUV or ROV	Diving	Snorkelling
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Parameter and environment				Icon																
Water Colour		Shallow	Blue/Green		nf	nf	nf	O	nf	nf	nf	nf	nf	O	O	nf	O\$	O\$	nf	
		Ocean	Deep	Blue		nf	nf	nf	nf	nf	nf	nf	nf	nf	fp	O	nf	O\$	nf	nf
	 Suspended sediment concentration TSS	Coastal	Deep	Brown		O\$	O\$	O	O\$	f	OE	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
				Blue/Green		O\$	O\$	O	O\$	f	OE	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
			Shallow	Blue/Green		nf	nf	nf	OS	f	nf	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
	 Coloured dissolved organic matter concentration CDOM	Ocean	Deep	Blue		O\$	O\$	O\$	O\$	f	O	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
		Coastal	Deep	Brown		O\$	O\$	O	O\$	f	OE	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
				Blue/Green		O\$	O\$	O	O\$	f	OE	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
			Shallow	Blue/Green		nf	nf	nf	fp	f	nf	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
		Ocean	Deep	Blue		O\$	O\$	O\$	O\$	f	O	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
 Chlorophyll concentration	Coastal	Deep	Brown		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O\$	nf	nf	

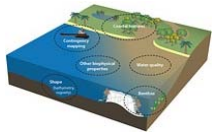


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				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser	Acoustic	Visual				
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling		
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Parameter and environment				Icon							Icon				Icon					
Water Quality	Concentration	Coastal	Deep	Blue/Green		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O\$	nf	nf
			Shallow	Blue/Green		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O\$	nf
		Ocean	Deep	Blue		O\$	O\$	O\$	O\$	f	O	nf	nf	nf	nf	nf	O\$	O\$	nf	nf
	Cyano bacterial blooms (other then Lyngbya)	% cover			O\$	O\$	O\$	O\$	f	O	nf	nf	nf	nf	nf	O	O\$	nf	nf	
		Composition and Biomass			nf	nf	nf	O\$	f	O	nf	nf	nf	nf	nf	O	O\$	nf	nf	
	Optical properties	Attenuation coefficient	Coastal	Deep	Brown		O\$	O\$	O	O\$	f	OE	nf	nf	nf	nf	O\$	O\$	O\$	nf
				Blue/Green		O\$	O\$	O	O\$	f	O	nf	nf	nf	nf	nf	O\$	O\$	O\$	nf
			Shallow	Blue/Green		nf	nf	nf	O\$	f	nf	nf	nf	nf	nf	nf	O	O\$	O\$	nf
		Ocean	Deep	Blue		OE	OE	O	OP	f	O	nf	nf	nf	nf	nf	fp	O\$	fp	nf
		Euphotic depth	Coastal	Deep	Brown		O\$	O\$	O	O\$	O	O	nf	nf	nf	nf	nf	O\$	nf	nf
Blue/Green					O\$	O\$	O	O\$	O	O	nf	nf	nf	nf	nf	nf	O\$	nf	nf	

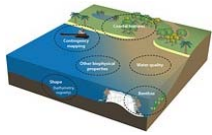


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				Multi-spectral			Hyper-spectral				Photogram	Radar		Laser green	Acoustic	Visual						
				Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne	Airborne	Satellite	Airborne		Boat/helicopter	AUV or ROV	Diving	Snorkelling				
PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >				Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
Parameter and environment				Icon							Icon				Icon							
Hydro Optic	Euphotic depth	Ocean	Shallow	Blue/Green		nf	nf	nf	O\$	O	nf	nf	nf	nf	nf	nf	nf	O\$	nf	nf		
		Ocean	Deep	Blue		OE	OE	O	OE	O	O	nf	nf	nf	nf	nf	nf	nf	O\$	nf	nf	
	Secchi depth	Coastal	Deep	Brown		O\$	O\$	O	O\$	f	O	nf	nf	nf	nf	nf	nf	O	O\$	nf	nf	
				Blue/Green		O\$	O\$	O	O\$	f	O	nf	nf	nf	nf	nf	nf	nf	O	O\$	nf	nf
	Secchi depth	Ocean	Shallow	Blue/Green		nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	nf	O	O\$	nf	nf
			Deep	Blue		OE	OE	O	OE	f	O	nf	nf	nf	nf	nf	nf	nf	fp	O\$	nf	nf
Other biophysical properties	Photosythetic Active Radiation (PAR)				nf	f	f	f	OS	O	nf	nf	nf	nf	nf	nf	nf	nf	f	f	nf	
	Surface Temperature				nf	nf	f	f	OS	O	nf	nf	nf	nf	nf	nf	nf	O	nf	nf	nf	
	Wave Height				nf	nf	nf	nf	nf	nf	nf	nf	O	O	O	nf	nf	nf	nf	nf	nf	
	Surface Currents				nf	nf	nf	nf	nf	nf	nf	nf	O	O	O	nf	nf	nf	nf	nf	nf	



# MARINE REMOTE SENSING - MAPPING CAPABILITY MATRIX

BRG-UQ September 2014

Table Key: O= operational, O\$ = operational but cost prohibitive, f = feasible but not operational, nf =not feasible, fp=partly feasible, OE=possible if extent is bigger then several pixels

SENSOR Type Platform		Passive							Active				Field				
		Multi-spectral			Hyper-spectral				Photogram	Radar		Laser green	Acoustic	Visual			
		Airborne	Satellite	Satellite	Airborne	Satellite	Satellite	Airborne		Airborne	Satellite			Airborne	Boat/ helicopter	AUV or ROV	Diving
<b>PIXEL SIZE</b> Fine < 5m, Medium 5 m - 100 m, Coarse 100 m >		Fine	Fine	Medium	Fine	Medium	Coarse	Fine	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Parameter and environment</b>	<b>Icon</b>																
<b>Surface Winds</b>		nf	nf	nf	nf	nf	nf	nf	O	O	O	nf	nf	nf	nf	nf	nf