REPRESENTATIVE AREAS PROGRAM

REEF BIOREGIONS continued

RHE Strong Tidal Mid Shelf (East) High energy/high tidal movement. Turbid water. East Australian Current splits so that there is an edile in the open area where there are small well-spaced reefs. Many smaller Fish - possibly high recruitment area. High water column productivity. Biologically distinct (fish). Leeward parts of reefs dominated by filter-feeders. Fuzzy boundary with RSVM. RHW Strong Tidal Mid Shelf (West) High energy/high tidal movement. Turbid water. High water column productivity. Biologically distinct (fish). Leeward parts of reefs dominated by filter-feeders. RHC High Continental Islands Palm Islands: Geomorphologically unique, with high diversity (habitat and benthos) due to exposure to clear water by the Palm Passage on the eastern sides, very shellered and muddy coastal habitats on the protected sides, and current-swept channels between the Islands. Whitsunday Islands: Geomorphologically unique, Both cross-shelf and north'south gradient in benthic communities. Species-poor. muddy reefs close to the Proserpine River. Unique and very fragile hard and soft coral communities in the inlets. RH1. Hard Line Geomorphologically distinct. Extensive outer barrier, set well back from edge of continental slope. Fish communities less diverse, but similar to Swain Reefs and Whitsundays. Strong influence from Broad Sound, high tidal energy. Current-swept channels with setey walls. Sheltered leeward-reef communities (including batitish) with lower diversity. Strongly influenced by Broad Sound tidal node. RCB1 Capricorn Bunker Outer RCB1 & RCB2 cceanographically isolated, may be biologically distinct from therest of GBR. More turbid, more sheltered and more algae than RCB1, characteristic of mid-sh			
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	RSWO	Swains Outer	distinct from Mid Swains (RSWM), more similar to Capricorn Bunker Outer Reefs (RCB1). Communities on flanks and leeward sides dominated by xeniids, a large and very characteristic group of soft

NON-REEF BIOREGIONS OF THE GREAT BARRIER REEF WORLD HERITAGE AREA

Descri	ption

	N O N - R E E F	
NA1	Coastal Strip	Sand rather than mud, low carbonate and low nutrient. Dry tropic influence from land. Very dense seagrass in places – some areas important for dugong and turtle feeding. Boundaries of bioregion along the coast match changes in shoreline type.
NA3	High Nutrients Coastal Strip	Terriginous mud and high levels of nutrients from the adjoining land. Seagrass in sheltere sites only. Good turtle and dugong feeding habitat. Wet tropical influence for much of the coast.
NA4	Inshore Terriginous Sands	Strong Broad Sound tidal influence. Very mobile sands, little algae or seagrass.
NB1	Inshore Muddy Lagoon	High carbonate sand, prawn habitat. Rich soft-sediment sponge fauna, 24% not yet recorded elsewhere.
NB3	Inner Shelf Seagrass	Very sandy area with distinct invertebrate and fish communities. Seasonal seagrass patches Distinct gorgonian fauna, associated with low wooded islands. Boundary for sponges and gorgonians extends south to Cape Grafton only.
NB5	Inner Mid Shelf Lagoon	Coarse sediment from land influences (medium-high land input). Sparse seagrass.
NB6	Inner Shelf Lagoon Continental Islands	Strong currents, gravel and hydroids around Pine Peak Island. Some gorgonians and low reef sites, water very turbid. Seagrass meadows in some bays.
NB7	Mid Shelf Lagoon	Muds dominate, minimal algae or seagrass. Leeward parts of of Hook and Bait Reefs are geomorphologically different. Very steep, extensive benthos, gravel, low sponge diversity

continued opposite .

REPRESENTATIVE AREAS PROGRAM

NON-REEF BIOREGIONS continued.

NB8

NC

ND

NE

NF

NH

NI

NJ

NK

NL1

NL2

NL3

NL4

NL5

NM

NN

NO

NP

NQ

NR

NS

NTW

NTE

NU

		but only 21% of species are similar influenced by strong East Australia
	Capricorn Bunker Lagoon	<i>Halimeda</i> and seagrass up to 50% co sponge species, 28% not yet found
	Mid Shelf Inter Reef - Seagrass	Fine sediments, high carbonate con shoals.
	Mid Shelf Inter Reef	Shelly sands, almost no fine sedime
	Outer Shelf Lagoon	<i>Halimeda</i> Banks. <i>Caulerpa</i> only goes follows the inner boundary of the H
	Halimeda Banks - some coral	<i>Halimeda</i> and <i>Caulerpa</i> banks with of follows Pollard Channel.
	Mid Shelf Sandy Inter Reef	Sandy low density seagrass beds, k
	Halimeda Banks	Dense Halimeda, almost no coral, so
	Princess Charlotte Bay Outer Shelf	Sandy, change to carbonate sedime
	Princess Charlotte Bay	Muddy bay, surrounded by silica s
	Outer Shelf Algae and Seagrass	Areas of medium density seagrass diversity of sponge species at Lizar not yet recorded elsewhere on the o
	Outer Shelf Seagrass	Shelly sands (very coarse) with small
	Outer Shelf Inter Reef - Central	Shelly sands with very sparse algae
	Outer Shelf Inter Reef - Southern	High currents. Coarse sediments. A diversity of biota.
	Swains Inter Reef	Rich sponge fauna, 26% not yet rec occurring in both Swain and Capri- lower tidal current than in NL4. Fuz in patches in middle Swains.
	Mid Shelf Seagrass	Dense seagrass beds. Very muddy a diversity of sponges near Turtle Isla region.
	Capricorn Bunker Banks	Pre-reef <i>Halimeda</i> deposits around 0 mostly different from southern fau faunas (NL5).
	Capricorn Trough	Deep oceanic influence. Mix of pela boundary between NO and NB7.
	Eastern Plateau	Based on depth, region broadens to
	Steep Slope	Very steep slope dropping off to de
	Queensland Trough	More moderate slope compared to
	Intermediate Broad Slope	Widening of slope with lower grad
	Western Pelagic Platform	Gentle broad slope, number of sedim Current); mostly fine pelagic sedim large bluespot trout pesent.
	Eastern Pelagic Platform	Gentle broad slope. Mostly fine pel extensive plate corals to 5-10m dept Australian Current.
	Terraces	Characterised by hard substrate sea shoals to depths of around 10m.
_		

DEEPWATER OFFSHORE AREAS OF THE GREAT BARRIER REEF WORLD HERITAGE AREA

The following deep water, offshore areas extend from the edge of the continental shelf to the eastern border of the GBRWHA. They were described based largely on physical information and, for the purposes of the Representative Areas Program, and until further information is gained, they are treated as separate bioregions: X1 Far Northern Offshelf, X2 Offshelf Queensland Trough, X3 Outer Far Northern Inter Reef, X4 Capricorn Bunker Inter Reef, X5 Outer Central Inter Reef, X6 Central Offshelf, X7 Central Inter Reef & X8 Southern Embayment.

- to those in southern lagoonal reefs. Mobile sand dunes ian Current
- cover. Mixing of southern inshore and tropical inshore l elsewhere.
- ontent between large number of reefs. Contains deep water
- nents. Very little seagrass. Abundant crinoids (feather stars).
- s as far as the inner edge of the shelf edge. Eastern boundary Ribbon Reefs.
- deep rubble reef or sparse coral patches. NE/NF boundary
- known turtle foraging sites.
- some seagrass.
- ents. Red-spot king prawn grounds.
- sand deposits with low nutrient levels. Some seagrass
- s and medium density algae, diverse solitary corals. High ard Island and North and South Direction Groups, 28% GBR
- naller areas of seagrass and algal gardens (low density).
- ae and seagrasses.
- Available data indicates low biomass and high
- ecorded elsewhere on GBR, and only 31% of species ricorn Bunker regions. Complex and rocky in places, with uzzy boundary with NL4. Some *Halimeda*, and some seagrass
- v area with distinct invertebrate and fish communities. High slands group with 36% not yet recorded elsewhere in GBR
- l Capricorn Bunker reefs. Diverse sponge fauna (187 species), auna (NB8), slightly more similar to northern island-group
- elagic (e.g. foraminifera) and Halimeda deposits. Very fuzzy
- towards Eastern Plateau; mostly fine pelagic sediments
- lepths of 2500+m. Slopes prone to slippages.
- NQ; mostly fine pelagic sediments.
- dient; mostly fine pelagic sediments.
- iment drifts (mobile sand banks formed under East Australian ments punctuated by many coral shoals. Oceanic sharks and
- elagic sediments with several long (30 nm) E-W shoals of pth. A number of mobile sand banks have formed under East
- eafloor terraces at depths of 90-300m terraces punctuated by

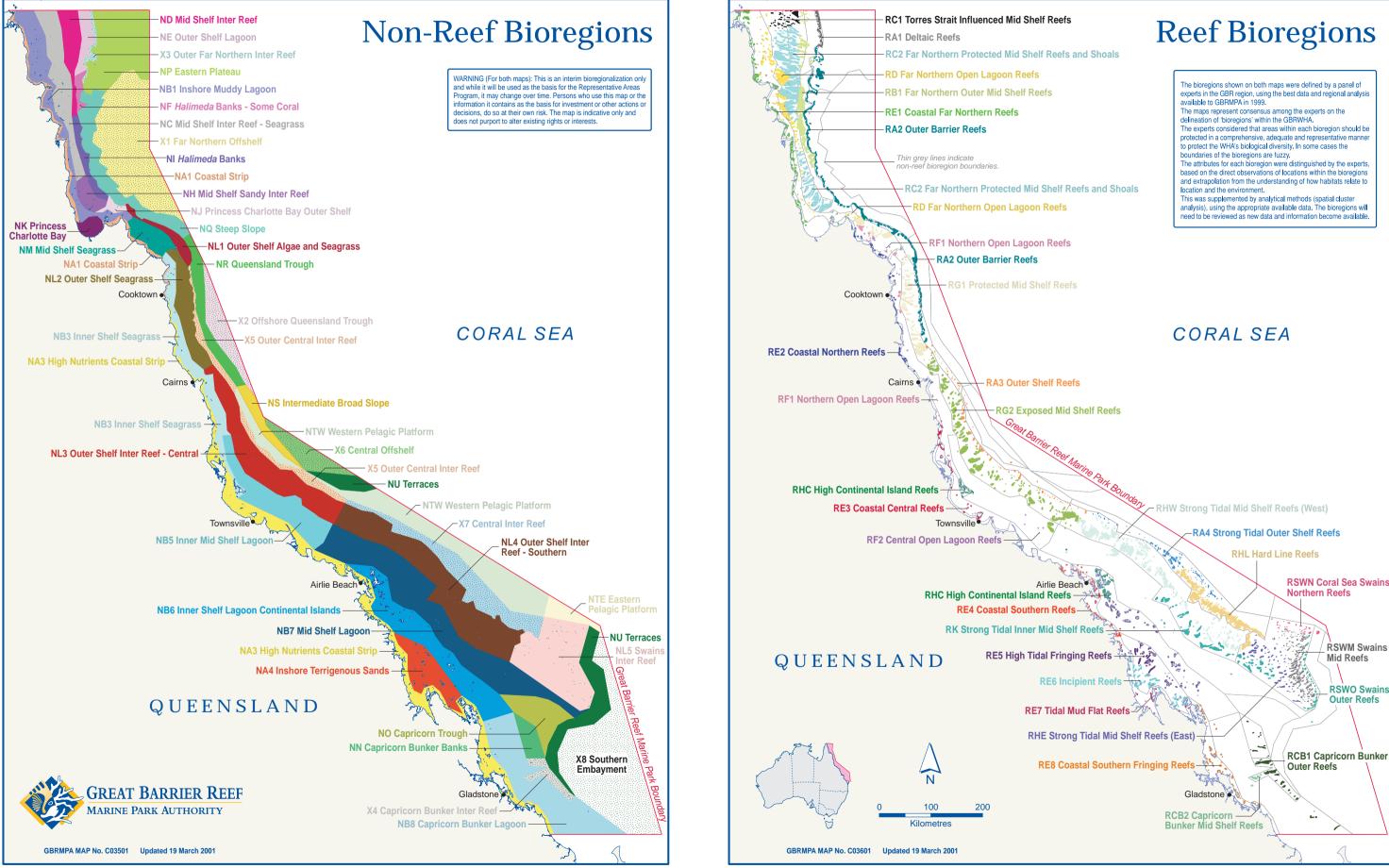
REPRESENTATIVE AREAS PROGRAM

BIOREGIONS OF THE GREAT BARRIER REEF WORLD HERITAGE AREA

The Great Barrier Reef Marine Park Authority, through the classification phase of the Representative Areas Program, has mapped the biological and physical diversity of the Great Barrier Reef World Heritage Area. The bioregion maps were developed by panels of experts, using the best available information at the time - more than 40 layers of data compiled through years of research. Each bioregion represents an area where the known animal and plant assemblages. and the physical features, are sufficiently distinct from the surroundings and the rest of the Great Barrier Reef World Heritage Area.

	Description
T E R M	
assemblages	• groups of plants and animals
benthos	• animals and plants living on and below the surface of the sea floor
biomass	• the weight of all the plants and animals (in an area)
bioregion	• an area where the groups of animals and plants, and the physical features are sufficiently distinct from the surroundings (at the scale of hundreds of kilometres)
biota	• plants and animals of a region
bivalve	• animal (mollusc) with two plates (valves) to its shell (eg. oyster)
carbonate	 white chalky mineral formed from fragments of animal skeletons (e.g. coral, shells) and some seaweeds
Caulerpa	• a group of green marine fleshy seaweed
communities	• groups of different plants and animals which live together in an area
distinct (biologically distinct)	• differences in absolute and/or relative abundance of seagrasses, and/or sponges and/or general epibenthos and/or pelagic fish.
diversity	• variety in the number of plant and animal types in an area
epibenthos	• animals and plants living on the sea floor at depths between the low water mark and the 200-metre line
episodic	• occurring irregularly
filter feeder	animal which feeds on small animals or plants, by straining them out of the surrounding water (eg. mussel, sponge)
foraminifera	• tiny oceanic animal with a chalky shell which contributes to reef building
fuzzy boundary	• (of bioregion) - unclear boundary between one bioregion and the next due to gradual change in nature or limited information
geomorphology	• physical features of the earth's surface
gorgonian	• sea fans, sea whips and other horny corals
habitat	• place in which an animal or plant lives
<u>Halimeda</u>	tropical seaweed made up of chains of chalky segments - important reef builder that grows in dense gardens
Hydroids	• small colonial animals forming tuft-like growths on seaweeds etc.
incipient	 beginning, in an initial stage
octocorals	• group of corals with eight tentacles (includes fan corals and whip corals)
pelagic	• living in the open sea or near the surface of the open sea
sediment	• material that settles to the seafloor (e.g. mud, sand, broken shell etc.)
solitary corals	• free-living corals, generally a single large animal (polyp)
species	• group of interbreeding animals or plants
terrestrial	• referring to land
terrigenous	• derived from the land via rivers or beaches (e.g. terrigenous deposits)
turbidity	• cloudy, muddy water
water column productivity	• amount of microscopic plants and animals in the water at a particular location

Bioregions of the Great Barrier Reef World Heritage Area



REPRESENTATIVE AREAS PROGRAM

REEF BIOREGIONS OF THE GREAT BARRIER REEF WORLD HERITAGE AREA

Description

		Description
	REEFS	
RA1	Deltaic •	Distinct geomorphology, coral and fish. Torres Strait influences (strong currents). Less exposed to Coral Sea than RA2 due to widening of continental shelf.
RA2	Outer Barrier	Distinct geomorphology, coral and fish. Coral Sea influence. Mosaic of steep, exposed high-energy fronts and current-swept channels. Leeward reef benthos have a mix of clear-water and coastal species.
RA3	Outer Shelf	Distinct geomorphology, with more submerged reefs than elsewhere. Transition zone. Open matrix of reefs allows greater Coral Sea influence, little coastal influence.
RA4	Strong Tidal Outer Shelf	Continental shelf protrudes widely but slopes gently. Small outer reefs set back from the edge. Strong tidal movement, high-energy area, biologically distinct.
RB1	Far Northern Outer Mid Shelf	Distinct biologically from true outer-shelf or mid-shelf reefs. Species-rich benthos. Mostly smaller reefs, dominated by shoals.
RC1	Torres Strait Influenced Mid Shelf	Reefs small, and have Torres Strait influence. Biologically distinct from RC2
RC2	Far Northern Protected Mid Shelf	RC2 & RD have highest species diversity of octocorals on the GBR. Larger shoals and reefs than RC1. Rich hard coral communities. Extensive reef flats and shoal terraces, separated by diverse channel system (some calm and sheltered, others with strong flow). Many turtle sightings.
RD	Far Northern Open Lagoon	RC2 & RD have highest species diversity of octocorals on the GBR. Small islands and low vegetated isles with fringing reefs as well as near-shore platform reefs. Distinct and species-rich coral communities. Species-rich algal communities. Less fish diversity than RC2. Many turtle sightings.
RE1	Coastal Far Northern	Relatively rich in both hard and ocotcoral species. Sediment resuspension during south-east trade winds. Biologically distinct patches of reef.
RE2	Coastal Northern	Higher species richness, and more <i>Sargassum</i> than in RE3. Low soft coral cover, but higher richness than RE3. Silty in sheltered areas. Sediment resuspension during south-east trade winds. Biologically distinct patches of reef.
RE3	Coastal Central	Biologically distinct, patchy reefs; more exposed to prevailing winds than RE2. Very low soft coral diversity and cover, but rich in gorgonians on deeper reef slopes. Influenced by episodic Burdekin River plumes and other annual river plumes. Very muddy in sheltered areas and on deeper slopes. Sediment resuspension during south-east trade winds.
RE4	Coastal Southern	Moderate tidal ranges, moderate to high turbidity. Broad Sound mouth and Proserpine River influence on water quality. Varying exposure levels within the region, fairly high habitat diversity. Biologically distinct.
RE5	High Tidal Fringing	Very high turbidity, thus habitat for light-avoiding benthos at the base of the reef. Strong coastal influence and unusually strong currents for inshore area, strong tidal movements and high tidal range. Well-developed fringing reefs, with poor hard and soft coral communities, but rich gorgonian and algal communities.
RE6	Incipient	Area has lots of algae and only incipient reefs. Very high turbidity and tidal movements. Strong southern influences on coral and algal species.
RE7	Tidal Mud Flats	Greatest tidal range and tidal movements on the GBR. Higher turbidity than RE5 and RE6. Very few reefs or corals, but distinct algal communities.
RE8	Coastal Southern Fringing	Dominated by episodic Fitzroy River flood plumes. Southern influence in algal species. Fringing reefs around high continental islands with high cover of hard and soft coral and algae, but low coral diversity.
RF1	Northern Open Lagoon	Small islands and low vegetated isles with fringing reefs. Muddy influence from wet tropical rivers. Distinct in terms of reef size and assemblages (soft coral, fish and algae).
RF2	Central Open Lagoon	Region dominated by episodic Burdekin flood plumes. Sea floor deeper and lagoon significantly wider, with more tidal movement than RF1. Few reefs and islands.
RG1	Sheltered Mid Shelf	Sheltered by outer barrier reefs. Reefs may form lagoons. Distinct hard and soft corals, fish and algae. Octocoral assemblages diverse, mostly clear water species and some coastal species.
RG2	Exposed Mid Shelf	Fairly exposed to Coral Sea, with clear water and strong wave action on outer area. Reefs may form lagoons. Episodic Burdekin flood plumes may reach inner reefs adjacent to RF2, resulting in greater cross-shelf variation than in many other bioregions.