Establishing long-term coral community monitoring sites in the Montebello/Barrow Islands marine protected areas: Data collected in December 2006

Marine Science Program Data Report Series MSPDR4 January 2009

Kevin P Bancroft Marine Science Program, Science Division











Establishing long-term coral community monitoring sites in the Montebello/Barrow Islands marine protected areas: Data collected in December 2006

Marine Science Program Data Report Series MSPDR4 January 2009

Kevin P Bancroft

Marine Science Program
Science Division
Department of Environment and Conservation





SUMMARY

In December 2006, a field survey was undertaken to establish long-term coral monitoring sites in the Montebello/Barrow Islands marine protected areas (MBIMPA) which comprise the Montebello Island Marine Park, Barrow Island Marine Park (BIMP) and the Barrow Island Marine Management Area (BIMMA).

A baseline of 26 coral community monitoring sites was established for long-term monitoring surveys. In determining where the long-term coral community monitoring sites should be situated, marine ecological community ground-truth data was collected at 637 sites. At some of these sites the substrate was recorded using an underwater drop-down video system.

Video footage of the benthos was recorded along transects at each of the 26 sites and resource and physical data were harvested using AIMS AVTAS protocols. Data on relative finfish diversity and abundance, coral predators and other key invertebrates were also collected at these sites.

This report provides:

- 1. the context, objectives and methods of the survey;
- 2. metadata and hard copy archive records of the data; and
- 3. directions to future researchers or managers as to the storage locations of data, video and images in both hard and digital forms (where applicable).

TABLE OF CONTENTS

| S | | IARY | l |
|----|-----------------|---|-----|
| T. | ABLE | E OF CONTENTS | II |
| LI | ST O | OF FIGURES | III |
| LI | IST O | OF TABLES | III |
| 1 | IN [.] | ITRODUCTION | 1 |
| 2 | OE | BJECTIVES | 2 |
| 3 | M | ATERIALS AND METHODS | 3 |
| | 3.1 | Benthos | 3 |
| | 3.2 | FINFISH | |
| | 3.3 | CORAL PREDATORS | 5 |
| | 3.4 | BENTHIC HABITAT OBSERVATIONS | 5 |
| 4 | RE | ESULTS | 5 |
| | 4.1 | LONG-TERM CORAL COMMUNITY MONITORING | 5 |
| | 4.2 | FINFISH DATA | 6 |
| | 4.3 | CORAL PREDATOR DATA | 6 |
| | 4.4 | MARINE ECOLOGICAL COMMUNITY DATA | 7 |
| 5 | DA | ATA MANAGEMENT | 9 |
| | 5.1 | CORAL COMMUNITY MONITORING DATA | 9 |
| | 5.2 | FINFISH DATA | 9 |
| | 5.3 | CORAL PREDATOR DATA | 9 |
| | 5.4 | MARINE ECOLOGICAL COMMUNITY DATA | 9 |
| | 5.5 | DIGITAL VIDEO RECORDS | |
| | 5.6 | STILL IMAGES | |
| | 5.7 | REPORT ARCHIVAL | 10 |
| A | CKNC | OWLEDGEMENTS | 10 |
| 6 | RE | EFERENCES | 11 |
| 7 | AF | PPENDICES | 13 |
| | APPE | ENDIX 1. VISUAL FINFISH CENSUS DATA | 14 |
| | APPE | ENDIX 2. CORAL PREDATOR AND OTHER INVERTEBRATE DATA | 17 |
| | APPE | ENDIX 3. MARINE ECOLOGICAL COMMUNITIES DATA | 21 |

LIST OF FIGURES

| Figure 2. Long-term coral community monitoring sites established in the Montebello/Barrow Islands marine protected areas during December 2006 | 6 |
|--|---|
| Figure 3. Marine ecological community ground-truth sites surveyed in the Montebello/Barrow Islands marine protected areas during December 2006 | |
| | |

LIST OF TABLES

1 INTRODUCTION

The Montebello/Barrow Islands marine protected areas (MBIMPA), incorporating the Montebello Islands Marine Park, Barrow Island Marine Park and the Barrow Island Marine Management Area (Figure 1), are located off the Pilbara coast in northwest Western Australia. The MBIMPA is approximately 1,600 km north of Perth and covers an area of approximately 2,100 km². The Montebello Islands is a complex archipelago of 265 low lying islands and islets, composed of limestone and sandstone. The coastlines of the islands are generally convoluted and the islands are dominated by lagoons, channels, intertidal embayments, barrier and fringing reefs, and undercut shoreline reef platforms. Some of the islands are capped with vegetated sand dunes, however most are bare rock. The Lowendal Islands consist of over 40 limestone islands and islets which are mainly bare, however several are covered with dunes of white sand. Barrow Island complex includes Barrow Island, the largest island in the MBIMPA, and nine other smaller islands (Osborne et al. 2000).

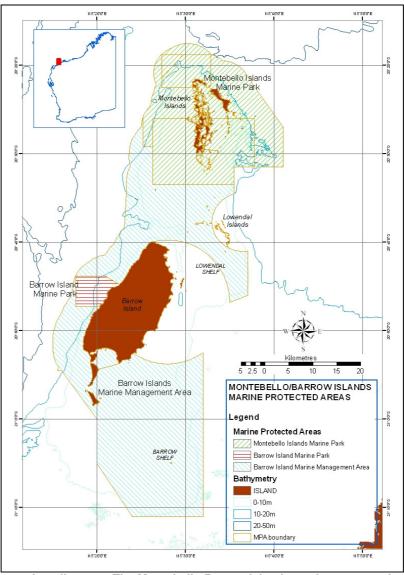


Figure 1. Locality map: The Montebello/Barrow islands marine protected areas.

The marine flora and fauna of the MBIMPA are predominantly tropical. Recent oceanographic modelling (Connle) undertaken by the CSIRO (Condie et al. 2006; Condie et al. 2005) suggests the MBIMPA may have biological connectivity to tropical coral reefs on the mainland and to the north. The MBIMPA may be a source of larval recruitment for coral reefs further south such as the Pilbara inshore islands, Muiron Islands and Ningaloo reef (Bancroft & Long 2008), transported by the polar flowing, relatively low salinity and warmer waters of the Leeuwin Current. Macroalgae-dominated limestone reef and subtidal reef/sand are the dominant benthic habitats, however coral reef, mangrove and sand are also major habitat types at the MBIMPA (Department of Environment and Conservation 2007).

The MBIMPA were gazetted in 2005 and are vested in the Marine Parks and Reserves Authority (MPRA). The WA Department of Environment and Conservation (DEC), in collaboration with the Department of Fisheries (DoF), is responsible for the progressive implementation of the MBIMPAs' management plan (Department of Environment and Conservation 2007) on behalf of the MPRA.

DEC's Marine Science Program, in collaboration with DEC's Pilbara Region, is establishing a comprehensive long-term monitoring program in the MBIMPA. Monitoring programs are a requirement stated in all WA marine protected area management plans and will, ultimately, provide long-term timeseries data on the condition of and pressure(s) on the ecological values/assets of the marine protected areas (MPAs) and the effectiveness of management actions to ameliorate these pressures. Key Performance Indicators such as coral reef communities, have been identified (Department of Environment and Conservation 2007) and are regarded as the highest monitoring priority.

Significant oil and gas production facilities have operated for over two decades within and immediately outside the boundaries of the MBIMPA (Department of Environment and Conservation 2007). Currently, there is a major gas development proposal for Barrow Island which involves a gas condensate plant, power generation plant, desalination plant, >4 km loading jetty and associated infrastructure and a 18-20 month dredging program (Chevron Australia Pty Ltd 2005a; 2005b; 2005c). The companies involved have undertaken significant research and compliance monitoring programs over this period and have extensive time series data of great scientific value (Chevron Australia Pty Ltd 2005d; 2005e; Cohen 2002; Nielsen 2001; Ryan 2006). These data will be used, with appropriate permission, to complement data gathered in DEC marine monitoring programs.

A scoping field trip was undertaken in August 2006 by the Marine Science Program to identify possible monitoring sites for key benthic communities, particularly coral reef communities at the MBIMPA (Bancroft *et al.* 2006). In December 2006, a survey was undertaken to implement the first phase of a multi-year program to establish a comprehensive suite of long-term monitoring sites in the MBIMPA and focussed on establishing sites within representative coral reef communities on the northern and eastern coral reefs. Future surveys will complete the spatial coverage of the coral reef component of the monitoring program (on the south, southwest and western reefs) and also establish monitoring for other key performance indicators of management (e.g. macroalgae and seagrass communities, mangroves, water quality, turtles, and dugong).

This report provides: the context, objectives and methods of the survey; hard copy archival of the data; and metadata to direct future researchers or managers to the storage location of data, video and images in both hard and digital forms (where applicable).

2 OBJECTIVES

The primary objectives of the December 2006 survey were: (i) to select representative sites in coral reef communities on the northern and eastern sectors of the MPAs for future long-term monitoring of benthos, (ii) to select impact monitoring sites in areas of existing/future human activity; (iii) to establish a baseline of benthic habitat information for future comparisons at these reference and impact sites, (iv) to assist in the selection of future finfish monitoring sites by determining the relative abundance of selected finfish groups/species, and (v) to determine the relative abundance of two common coral predators, the crown-of-thorns starfish (*Acanthaster planci*) and the corallivorous gastropods, *Drupella cornus* and *D. rugosa*, and their impact on coral communities.

Secondary objectives were (i) to determine the nature and extent of coral reef communities on the seaward reef slopes of the barrier/fringing reefs of the Montebello Islands Marine Park; (ii) to collect further marine habitat ground-truthing data; and (iii) to obtain still and video footage of benthic communities at representative sites to assist with future education and marine science communication programs.

3 MATERIALS AND METHODS

The field and analytical methods used for the benthic component of this survey (i.e. the primary objective) are largely standard monitoring protocols developed by the Australian Institute of Marine Science (AIMS) for tropical coastal ecosystems (Page *et al.* 2001). The methods used to estimate the relative abundance and distribution of finfish and coral predators were modified methods to provide preliminary semi-quantitative data to assist the design of future quantitative monitoring programs that will be established for these fauna in the future. The locations of the monitoring sites and methodologies were mostly selected to be complementary to existing and proposed industry monitoring sites.

3.1 Benthos

Permanent monitoring sites were established with the objective of developing a better understanding of the effect of natural and human influences on the coral reef communities of the MPAs. Although most sites were established to assess the nature, extent and causes of natural variability within these reef communities, several sites were located in areas of future human impact and or/complement existing industry monitoring sites.

Sites were located randomly within two types of representative sub-tidal (depth range between 2-9 m below chart datum) coral reef habitat:

- 1) 'typical' coral reef habitat (C-sites): significant live coral cover (>20% live hard coral cover) and large enough to accommodate the 'transect' methods; and
- 2) *Porites* 'bommie' habitat (P-sites): large (>5 m diameter), distinctly separate (up to 200 m apart) living *Porites* 'bommies' randomly selected at each site.

Both types of sites were located, where possible, in areas not exposed to long-period swell and cyclonic waves to minimise the possibility of mechanical damage from these natural events (i.e. to distinguish anthropogenic effects from natural effects). To facilitate diver access, sites were selected in areas where tidal currents during spring tides were less than approximately 0.5 m s⁻¹ and where water depths were less than 10 m.

At C-sites, three replicate 50 m fibreglass tape transects were positioned, using a diver wrist compass, either in parallel (~20 m apart) or in series (~10 m apart). At P-sites, transects were positioned north-south (from the most northern point) and east-west (from the most eastern point) across the surface of three *Porites* individual 'bommies' at each of seven sites. The latitude and longitude (Datum GDA94) was recorded at one end of each C-site transect and at the intersection of the two transects on each *Porites* 'bommie' at the P-sites (Garmin GPSMap models 76 and 76CSx to resolution of 0.0001 of a degree).

Video data of the benthos was collected according to the standard operational procedure developed by AIMS (Page *et al.* 2001). A brief summary is outlined below. At each C-site a diver, using a high definition, digital video camera and a clapperboard, recorded site details:

- date;
- location; and
- transect number.

At both C-sites and P-sites the diver then proceeded slowly along a transect with the camera held about 50 cm above the benthos and to the right of the transect line ensuring that the tape was inside the field of view. A 360° panoramic view of the surrounding benthos was recorded at the beginning and end of each transect. At each P-site site, this differed slightly, as the diver recorded a panorama

by swimming around the 'bommie' recording its morphology. An average transect took about six minutes to complete.

The AIMS Video Transect Analysis System (AVTAS) method was used to analyse the video record of each transect (Page *et al.* 2001) and is described briefly below. At the C-sites, the video records are sampled by identifying the benthos occurring at 200 fixed points along each 50 m transect. A range of 70 to 210 data points, with an average of 120, were sampled on P-site transects (average length of all transects was 11.8 m). The data were saved to a Microsoft Access[©] database titled MBI COR 200707 (see Section 5.1: Coral community monitoring data).

For each transect the percentage composition for the following benthic groups was recorded:

- total live hard coral;
- Acroporidae:
- Pocilloporidae;
- Faviidae;
- Poritidae:
- Fungiidae;
- 'other' live hard coral;
- bleached hard coral;
- · recently dead hard coral;
- live soft coral:
- macroalgae;
- rubble/turf algae;
- rubble/coralline algae;
- reef/turf algae;
- reef/coralline algae;
- sponge;
- living unidentified;
- sand: and
- indeterminate.

3.2 Finfish

To assess the suitability of coral sites for future long-term monitoring of 'finfish' a number of selected functional finfish groups and iconic species were counted by visual census at 'coral' monitoring sites. The methodology used was based on the standard operational procedure developed by AIMS (Halford & Thompson 1996) and is briefly described. At each C-site, the numbers of finfish were counted (up to 100 then >100) and recorded by a diver on three, 50 m by 5 m belt transects. At P-sites the same count was made within the area bounded by a distance of 2.5 m from the base and surface of three *Porites* 'bommies'. Finfish assessments were made before benthic community transects to avoid unnecessary disturbance to the fish communities.

The abundance of the following finfish groups/species were recorded at each site:

Major species targeted by recreational fishers:

- lutjanids (snappers);
- lethrinids (emperors):
- serranids (particularly coral trouts mostly of the *Plectropomus* genus);
- small cods (mostly Epinephelus and Cephalopholis species); and
- tuskfish (Choerodon spp.).

Large iconic species of interest to the marine nature-based tourism industry:

- Epinephelus tukula (potato cod);
- Cheilinus undulatus (maori wrasse);
- carangids (trevally);
- scombrids (mackerel); and
- sharks species.

3.3 Coral predators

The abundance of two common coral predators, *Acanthaster planci* (crown-of-thorns starfish) and the corallivorous gastropods, *Drupella cornus* and *D. rugosa*, were recorded on the finfish transects described above. The total number and maximum diameter of each *A. planci* was recorded at all sites. *Drupella* often occur in large aggregations of up to tens to hundreds of individuals and a significant proportion of the aggregations are cryptic.

To obtain a relative estimate of the population at each site, the number and relative size of non-cryptic aggregations, rather than individuals, were recorded. Aggregation size was categorised as small (1-4 individuals), medium (5-10), and large (>10). Observations of the presence or absence of the corallivorous sea stars, *Culcita* spp., were also recorded.

3.4 Benthic habitat observations

Benthic habitat observations were made using either a bathyscope, drop-down video camera or by diver. Data recorded at each site included:

- site details:
- date:
- method of observation,;
- substrate type;
- depth;
- description of the biological assemblage;
- habitat classification (see below); and
- cover of the dominant biological assemblage.

The habitats were classified to a functional group classes:

- Coral reef (Acroporidae);
- Coral reef (Pocilloporidae);
- Coral reef (Faviidae);
- Coral reef (Poritidae);
- Coral reef (mixed);
- recently dead hard coral:
- Soft coral (Alcyoniidae);
- Macroalgae (Phaeophytes);
- Rubble/turf algae;
- Rubble/coralline algae;
- Reef/turf algae;
- Reef/coralline algae;
- Filter feeders (Sponges);
- Silt; and
- Sand.

4 RESULTS

4.1 Long-term coral community monitoring

A total of 26 long-term coral community monitoring sites were established in the Montebello/Barrow Islands marine protected area during the December 2006 survey (Figure 2). Site coordinates are presented in Table 1. Benthic diversity and abundance data analysed from transect video footage was entered into an access database (see Section 5.1: Coral community monitoring data). Transect videography was archived appropriately after community data had been noted (see Section 5.5: Digital video records).

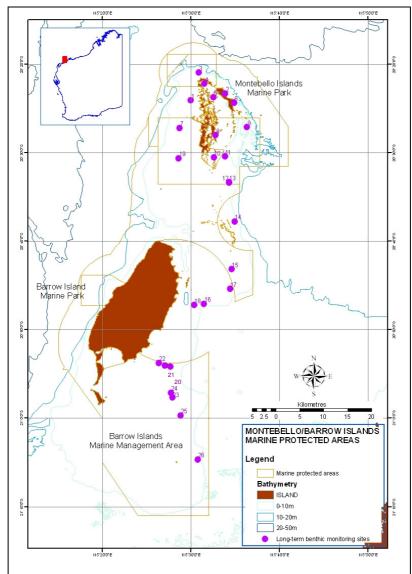


Figure 2. Long-term coral community monitoring sites established in the Montebello/Barrow Islands marine protected areas during December 2006.

4.2 Finfish data

A qualitative census of selected finfish was undertaken at each long-term coral community monitoring site. All raw data for each site are presented in Appendix 1.

4.3 Coral predator data

Data were collected on the two common coral predators, *Acanthaster planci* (crown-of-thorns starfish) and the corallivorous gastropods, *Drupella* spp., and other key invertebrates at each long-term coral community monitoring site. The raw data for each site are presented in Appendix 2.

Table 1. Coordinates for long-term coral community monitoring sites that were established in the Montebello/Barrow islands marine protected areas in December 2006 (datum GDA94).

| 141 | ontebello/barrow islanus ili | arme protect | eu areas | in Decemb | ei 2000 (ua | tuili abast) | • |
|-------------|-----------------------------------|---------------------|----------|------------------------|-------------------------------|-------------------------------|------------------------------|
| Infield_No | Locality | DATE ESTABLISHED | Түре | LATITUDE (decimal deg) | LONGITUDE (decimal deg) | Northings (UTM zone 50) | EASTINGS (UTM zone 50) |
| MBI/COR_001 | West of Bluebell Island | 09/12/2006 | C-Site | -20.40067 | 115.50033 | 7743465.547 | 343513.798 |
| MBI/COR_002 | Pitt Pt, Trimouille Is | 09/12/2006 | C-Site | -20.38766 | 115.56458 | 7744965.524 | 350206.617 |
| MBI/COR_003 | North West Island | 10/12/2006 | C-Site | -20.34823 | 115.51480 | 7749284.007 | 344971.562 |
| MBI/COR_004 | North Bunsen Channel | 10/12/2006 | C-Site | -20.36917 | 115.52550 | 7746976.141 | 346109.397 |
| MBI/COR_005 | Sack Bay, North West Is | 10/12/2006 | C-Site | -20.39511 | 115.54249 | 7744120.585 | 347908.347 |
| MBI/COR_006 | Benedictine Bay, Trimouille Is | 11/12/2006 | C-Site | -20.40551 | 115.58152 | 7743005.036 | 351991.721 |
| MBI/COR_007 | Southern end of West Reef | 11/12/2006 | C-Site | -20.45257 | 115.47876 | 7737699.780 | 341315.880 |
| MBI/COR_008 | Stephenson Channel | 11/12/2006 | C-Site | -20.46659 | 115.54704 | 7736212.488 | 348453.276 |
| MBI/COR_009 | Shoals south of Karangi Is | 12/12/2006 | C-Site | -20.45122 | 115.60559 | 7737966.882 | 354546.623 |
| MBI/COR_010 | Ah Chong Channel | 13/12/2006 | C-Site | -20.50830 | 115.54352 | 7731592.208 | 348127.160 |
| MBI/COR_011 | West of Ah Chong Is | 14/12/2006 | C-Site | -20.55521 | 115.57220 | 7726425.990 | 351163.603 |
| MBI/COR_012 | Shelf slope east of Black Rk | 14/12/2006 | C-Site | -20.55560 | 115.57201 | 7726382.646 | 351144.172 |
| MBI/COR_013 | Shelf slope east of Black Rk | 15/12/2006 | P-Site | -20.62865 | 115.58306 | 7718306.557 | 352366.567 |
| MBI/COR_014 | Shelf slope NE of Bridled Is | 15/12/2006 | P-Site | -20.71895 | 115.57733 | 7708305.646 | 351857.099 |
| MBI/COR_015 | Shelf slope S of Varanus Is | 15/12/2006 | P-Site | -20.78418 | 115.52524 | 7701036.330 | 346497.936 |
| MBI/COR_016 | South Lowendal Shelf | 16/12/2006 | P-Site | -20.75590 | 115.57408 | 7704212.481 | 351554.674 |
| MBI/COR_017 | SE Lowendal Shelf | 16/12/2006 | P-Site | -20.78631 | 115.50638 | 7700782.491 | 344536.721 |
| MBI/COR_018 | Southern Lowendal Shelf | 16/12/2006 | C-Site | -20.50991 | 115.47759 | 7731351.350 | 341252.839 |
| MBI/COR_019 | Inside Wonnich Reef | 17/12/2006 | C-Site | -20.90227 | 115.46203 | 7687902.279 | 340042.372 |
| MBI/COR_020 | East Dugong Reef | 18/12/2006 | C-Site | -20.90007 | 115.45120 | 7688134.993 | 338913.436 |
| MBI/COR_021 | Central Dugong Reef | 18/12/2006 | C-Site | -20.89544 | 115.44023 | 7688636.498 | 337767.287 |
| MBI/COR_022 | West Dugong Reef | 18/12/2006 | C-Site | -20.96019 | 115.46542 | 7681493.815 | 340456.380 |
| MBI/COR_023 | South Batman Reef | 19/12/2006 | C-Site | -20.95149 | 115.46262 | 7682454.130 | 340155.980 |
| MBI/COR_024 | North Batman Reef | 19/12/2006 | P-Site | -20.99447 | 115.48062 | 7677714.037 | 342072.972 |
| MBI/COR_025 | Northern Barrow Island Shoals | 20/12/2006 | P-Site | -21.07757 | 115.51348 | 7668546.892 | 345574.770 |
| MBI/COR_026 | Central East Barrow Island Shoals | 20/12/2006 | C-Site | -20.40067 | 115.50033 | 7743465.547 | 343513.798 |

4.4 Marine ecological community data

Six hundred and thirty-seven records of marine ecological community data were collected during the December 2006 survey (Figure 3). All data has been placed into the Marine Science Program's (MSP's) Western Australian Habitat Database (see Section 5.4: Marine ecological community data) and has been presented in Appendix 3. Videography was recorded where applicable and has been archived appropriately (see Section 5.5: Digital video records).

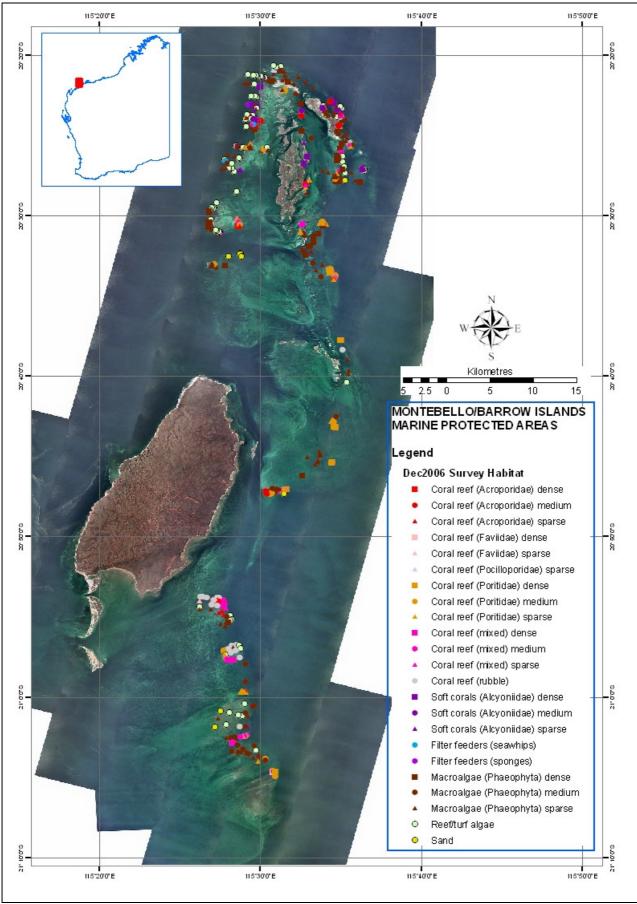


Figure 3. Marine ecological community ground-truth sites surveyed in the Montebello/Barrow Islands marine protected areas during December 2006.

5 DATA MANAGEMENT

5.1 Coral community monitoring data

Coral community monitoring data has been noted from the transect video footage and stored into a Microsoft Access © database entitled "MBI_COR_200707.mdb" and has been stored on the MSP server. To obtain a copy, phone the Science Division (08) 9334 0299.

5.2 Finfish data

The finfish data has been archived into a Microsoft Excel © database entitled "Fish_database_MBI_20061209.xls" and has been stored on the MSP server. To obtain a copy of this database, phone the Science Division (08) 9334 0299.

5.3 Coral predator data

The coral predator data has been archived into a Microsoft Excel © database entitled "Invertebrate_database_MBI_DEC_2006.xls" and has been stored on the MSP server. To obtain a copy of this database, phone the Science Division (08) 9334 0299.

5.4 Marine ecological community data

Hard copies of data sheets have been archived with the MSP. Raw ecological community data has been entered into the Western Australia Habitat Database (HABITATS.MDB) which is maintained by the MSP. The WA Habitat database is held on the MSP server. To obtain a copy of this database, phone the Science Division (08) 9334 0299.

5.5 Digital video records

All mini digital video (MDV) footage collected during the survey is held at two locations:

- MDV masters have been archived in the Montebello Islands Video Archive file 2006/005393-1
 "Montebello Islands Island Marine Park Marine Reserves Video Archive", held at the DEC
 Corporate Information Services, Department of Environment and Conservation, 17 Dick Perry
 Avenue, Kensington, Western Australia. Ph: (08) 9334 0333.
- 2. MDV copies have been stored at the Marine Science Program, Science Division, Department of Environment and Conservation, 17 Dick Perry Avenue, Kensington, Western Australia. Ph: (08) 9334 0299 Fax: (08) 9334 0327.

Eleven mini digital video tapes were used to record dropdown video sites and labelled:

- 1. MSP/MBI/DD#01-20061208
- 2. MSP/MBI/DD#02-20061209
- 3. MSP/MBI/DD#03-20061210
- 4. MSP/MBI/DD#04-20061211
- 5. MSP/MBI/DD#05-20061212
- 6. MSP/MBI/DD#06-20061212
- MSP/MBI/DD#07-20061213
 MSP/MBI/DD#08-20061217
- 9. MSP/MBI/DD#09-20061217
- 10. MSP/MBI/DD#10-20061217
- 11. MSP/MBI/DD#11-20061217

Twenty-six mini digital video tapes were used to record transect data at each long-term monitoring site and labelled:

| 1. | MBI/COR_001-20061209 | 14. MBI/COR_014-20061215 |
|-----|----------------------|--------------------------|
| 2. | MBI/COR_002-20061209 | 15. MBI/COR_015-20061215 |
| 3. | MBI/COR_003-20061210 | 16. MBI/COR_016-20061216 |
| 4. | MBI/COR_004-20061210 | 17. MBI/COR_017-20061216 |
| 5. | MBI/COR_005-20061210 | 18. MBI/COR_018-20061216 |
| 6. | MBI/COR_006-20061211 | 19. MBI/COR_019-20061217 |
| 7. | MBI/COR_007-20061211 | 20. MBI/COR_020-20061218 |
| 8. | MBI/COR_008-20061211 | 21. MBI/COR_021-20061218 |
| 9. | MBI/COR_009-20061212 | 22. MBI/COR_022-20061218 |
| 10. | MBI/COR_010-20061213 | 23. MBI/COR_023-20061219 |
| 11. | MBI/COR_011-20061214 | 24. MBI/COR_024-20061219 |
| 12. | MBI/COR_012-20061214 | 25. MBI/COR_025-20061220 |
| 13. | MBI/COR_013-20061215 | 26. MBI/COR_026-20061220 |

5.6 Still images

Still images that are useful for communication purposes will be stored as high resolution jpegs (approx 3-5 megabyte sized images), on the MSP server. To obtain copies of these images, phone the Science Division (08) 9334 0299.

5.7 Report archival

Hard copies of this report will be held at the following locations:

- 1. Marine Science Program, Science Division, Department of Environment and Conservation, 17 Dick Perry Avenue, Western Australia, 6152. Ph: (08) 9334 0333.
- 2. Woodvale Library, Science Division, Department of Environment and Conservation, Ocean Reef Road, Woodvale, Western Australia, 6026. Ph: (08) 9405 5100 Fax: (08) 9306 1641.
- 3. Archives, Woodvale Library, Science Division, Department of Environment and Conservation, Ocean Reef Road, Woodvale, Western Australia, 6026. Ph: (08) 9405 5100 Fax: (08) 9306 1641 (CD also attached).
- 4. Pilbara Region, Department of Environment and Conservation, Lot 3 Anderson Road, Karratha, Western Australia, 6714. Ph: (08) 9182 2000 Fax: (08) 9144 1118.
- 5. Serials Section, State Library of Western Australia. Alexander Library Building, Perth Cultural Centre, Perth, Western Australia, 6000.

Digital copies of this report will be held at the following:

- The Science Division Server; and
- CD-ROM [MSPDR4].

ACKNOWLEDGEMENTS

Overall Direction

Dr. Chris Simpson, Leader, Marine Science Program (MSP), Department of Environment and Conservation (DEC)

DEC Scientific and Organisational Assistance

Dr Suzanne Long, Research Scientist, MSP Shannon Armstrong, Research Scientist, MSP Dr Alan Kendrick, Senior Research Scientist, MSP Rob Connell, Marine Ranger (South), Exmouth District Peter van Schoubroeck, Graduate Research Assistant, MSP

Department of Fisheries Assistance

Steve Rogers, Skipper MV Walcott, Department of Fisheries (DoF) Keith Saunders, Senior Fisheries & Marine Officer, Karratha District Office, DoF Clint Wadley, Senior Fisheries & Marine Officer, Karratha District Office, DoF

Industry Assistance

Myles Hyams and Libby Howitt, Apache Energy Limited Russel Langdon and Dorian Moro, Gorgon HES Team, Chevron Australia Pty Ltd

Video data analysis

Cathie Page, Marine Consultant, Townsville, Queensland

Funding/Resources

This project is funded by the Department of Environment and Conservation with operational support from the Department of Fisheries.

Reviewers

Shannon Armstrong, Research Scientist, MSP Dr Alan Kendrick, Senior Research Scientist, MSP Dr Kim Friedman, Principal Research Scientist, MSP

6 REFERENCES

- Bancroft KP, Long S (2008) Modelling suggests connectivity between the Ningaloo Reef and coral reefs of the Pilbara. In *Discovering Ningaloo: Latest findings and their implications for management. Ningaloo Research Program Progress Report.* (ed. K Waples), pp. 61-64. Western Australian Marine Science Institute, Perth, Western Australia.
- Bancroft KP, Simpson CJ, Long S (2006) Long-term monitoring program in the Montebello/Barrow Islands marine protected areas. Scoping field trip: 8-11 August 2006. Marine Science Program, Department of Environment and Conservation, Perth, Western Australia, Field Program Report: PIO/MBI-2006/01.
- Chevron Australia Pty Ltd (2005a) *Draft environmental impact statement/environmental review and management program for the proposed Gorgon Development: Executive summary.* Chevron Australia Pty Ltd, Perth, Western Australia. 120 p.
- Chevron Australia Pty Ltd (2005b) *Draft environmental impact statement/environmental review and management program for the proposed Gorgon Development: Main report volume I.* Chevron Australia Pty Ltd, Perth, Western Australia. 1-399 p.
- Chevron Australia Pty Ltd (2005c) *Draft environmental impact statement/environmental review and management program for the proposed Gorgon Development: Main report volume II.* Chevron Australia Pty Ltd, Perth, Western Australia. 400-818 p.
- Chevron Australia Pty Ltd (2005d) *Draft environmental impact statement/environmental review and management program for the proposed Gorgon Development: Technical appendix C1-C5: Ecological assessments.* Chevron Australia Pty Ltd, Perth, Western Australia.

- Chevron Australia Pty Ltd (2005e) *Draft environmental impact statement/environmental review and management program for the proposed Gorgon Development: Technical appendix C6-C9: Ecological assessments.* Chevron Australia Pty Ltd, Perth, Western Australia.
- Cohen B (2002) Annual marine environmental survey 2001 Lowendal/Montebello and Airlie Islands.

 Apache Energy Limited, Perth, Western Australia. 35 p.
- Condie S, Andrewartha J, Mansbridge J, Waring J (2006) *Modelling circulation and connectivity on Australia's North West Shelf.* CSIRO and Department of Environment, Canberra, Australian Capital Territory. 62 p.
- Condie SA, Waring J, Mansbridge JV, Cahill ML (2005) Marine connectivity patterns around the Australian continent. *Environmental Modelling and Software*. **20**, 1149-1157.
- Department of Environment and Conservation (2007) Management Plan for the Montebello/Barrow Islands Marine Conservation Reserves 2007-2017. Prepared for Marine Parks and Reserves Authority by the Department of Environment and Conservation, Perth, Western Australia, Management Plan 55. 125 p.
- Halford AR, Thompson AA (1996) *Visual census surveys of reef fish: Long-term monitoring of the Great Barrier Reef.* Australian Institute of Marine Science, Townsville, Queensland, Standard Operational Procedure **3**.
- Nielsen J (2001) Annual marine environmental survey 2000 Lowendal/Montebello and Airlie Islands. Apache Energy Limited, Perth, Western Australia. 67 p.
- Osborne S, Bancroft KP, D'Adamo N, Monks L (2000) Regional Perspectives: Montebello/Barrow Islands. Department of Conservation and Land Management, Perth, Western Australia. 60 p.
- Page C, Coleman G, Ninio R, Osborne K (2001) Surveys of benthic reef communities using underwater video. Australian Institute of Marine Science, Townsville, Queensland, Standard Operational Procedure **7**. 45 p.
- Ryan C (2006) *Annual marine Monitoring 2006: field operations manual.* Apache Energy Limited, Perth, Western Australia, Field operations manual. 39 p.

7 APPENDICES

Appendix 1. Visual finfish census data

| | | | | 10 | | | <u> </u> | sp | omns | nelus/ pholis | snJə | SI | lon | sp | rids | | | |
|-------------|-----------|--------|------|----------|----------|----------|-----------|------------|--------------|-------------------------------|-----------------------|------------------------|-----------------------|-----------|------------|--------|--|---------|
| Site | Date | Method | Rep# | Recorder | Current | Vis. (m) | Lutjanids | Lethrinids | Plectropomus | Epinephelus/ cephalopholis | Epinephelus tukula | Cheilinus undulatus | <i>Choerodon</i> spp. | Carangids | Sczombrids | Sharks | Other | Total # |
| MBI/COR-001 | 09-Dec-06 | C-site | 1 | SLO | low | 5 m | | | | | | | | | | | mullids | 0 |
| MBI/COR-001 | 09-Dec-06 | C-site | 2 | SLO | low | 5 m | | | | | | | | | | | | 0 |
| MBI/COR-001 | 09-Dec-06 | C-site | 3 | SLO | low | 5 m | 1 | | | | | | | | | | | 1 |
| MBI/COR-002 | 09-Dec-06 | C-site | 1 | AKE | low | 5 m | | | | 1 | | | 1 | | | | Damsels, 12 mullids, flutefish | 2 |
| MBI/COR-002 | 09-Dec-06 | C-site | 2 | AKE | low | 5 m | | | | | | | | | | | sweetlips | 0 |
| MBI/COR-002 | 09-Dec-06 | C-site | 3 | AKE | low | 5 m | | 2 | | | | | | | | 1 | 4 mullids, small wobbegong, humbugs, chromis, coral fish, wrasse | 3 |
| MBI/COR-003 | 10-Dec-06 | C-site | 1 | AKE | mod | 6-8 m | | | | | | | 1 | | | | | 1 |
| MBI/COR-003 | 10-Dec-06 | C-site | 2 | AKE | mod | 6-8 m | | | | | | | | | | | | 0 |
| MBI/COR-003 | 10-Dec-06 | C-site | 3 | AKE | mod | 6-8 m | | | | | | | | | | | | 0 |
| MBI/COR-004 | 10-Dec-06 | C-site | 1 | AKE | low/mod | 1-2 m | 5 | | | | | | 2 | | | | 1 sweetlips | 7 |
| MBI/COR-004 | 10-Dec-06 | C-site | 2 | AKE | low/mod | 1-2 m | 3 | | 1 | 1 | | | 1 | | | | 1 batfish, 1 sweetlips | 6 |
| MBI/COR-004 | 10-Dec-06 | C-site | 3 | AKE | low/mod | 1-2 m | 2 | | 1 | | | | | | | | | 3 |
| MBI/COR-005 | 10-Dec-06 | C-site | 1 | AKE | low | 3-4 m | | | | 2 | | | | | | | | 2 |
| MBI/COR-005 | 10-Dec-06 | C-site | 2 | AKE | low | 3-4 m | 1 | | | | | | | | 1 | | | 2 |
| MBI/COR-005 | 10-Dec-06 | C-site | 3 | AKE | low | 3-4 m | 2 | 3 | | | | | | | 3 | | | 8 |
| MBI/COR-006 | 11-Dec-06 | C-site | 1 | SLO | low | 8 m | | 1 | | 1 | | | | | | | Heaps of damsels, 3 Siganids, Ostracion | 2 |
| MBI/COR-006 | 11-Dec-06 | C-site | 2 | SLO | low | 8 m | | 1 | | | | | 1 | | | | | 2 |
| MBI/COR-006 | 11-Dec-06 | C-site | 3 | SLO | low | 8 m | | | | | | | 1 | | | | 3 Siganids, Ostracion | 1 |
| MBI/COR-007 | 11-Dec-06 | C-site | 1 | SLO | surge | 6 m | 3 | | 1 | | | | 10 | | | | 1 cleaning station | 14 |
| MBI/COR-007 | 11-Dec-06 | C-site | 2 | SLO | surge | 6 m | 8 | | 2 | | | | 11 | 1 | | | - | 22 |
| MBI/COR-007 | 11-Dec-06 | C-site | 3 | SLO | surge | 6 m | 15 | 2 | | | 1 | | 8 | 1 | | | (E. tukala 60cm) | 27 |
| MBI/COR-008 | 11-Dec-06 | C-site | 1 | AKE | low | 5-6 m | 3 | | | | | | | | | | | 3 |
| MBI/COR-008 | 11-Dec-06 | C-site | 2 | AKE | low | 5-6 m | | | 3 | | | | 1 | | | | | 4 |
| MBI/COR-008 | 11-Dec-06 | C-site | 3 | AKE | low | 5-6 m | 3 | | | | | | | | | | tawny nurse shark off the transect | 3 |
| MBI/COR-009 | 12-Dec-06 | C-site | 1 | AKE | low | 7 m | | | | | | | | | | | | 0 |
| MBI/COR-009 | 12-Dec-06 | C-site | 2 | AKE | low | 7 m | 2 | | | 1 | | | | | | | | 3 |
| MBI/COR-009 | 12-Dec-06 | C-site | 3 | AKE | low | 7 m | 2 | | | 2 | | | | | | | | 4 |
| MBI/COR-010 | 13-Dec-06 | C-site | 1 | AKE | mod/high | 7-8 m | 11 | | 3 | 4 | | | 2 | | | | 2 Cromileptes | 20 |
| MBI/COR-010 | 13-Dec-06 | C-site | 2 | AKE | mod/high | 7-8 m | 18 | | | 1 | | | 6 | | | 1 | | 26 |
| MBI/COR-010 | 13-Dec-06 | C-site | 3 | AKE | mod/high | 7-8 m | 4 | | | 4 | | | 2 | | | | | 10 |
| MBI/COR-011 | 14-Dec-06 | C-site | 1 | SLO | | 8 m | | | 1 | 1 | | | | | | | | 2 |
| MBI/COR-011 | 14-Dec-06 | C-site | 2 | SLO | | 8 m | 3 | | | | | | | | | l | | 3 |

| | _ | | _ | | | | | | | | | | | | | | | |
|-------------|-----------|--------|------|----------|---------|----------|-----------|------------|--------------|-------------------------------|-----------------------|------------------------|-------------------|-----------|------------|--------|--|---------|
| Site | Date | Method | Rep# | Recorder | Current | Vis. (m) | Lutjanids | Lethrinids | Plectropomus | Epinephelus/ cephalopholis | Epinephelus tukula | Cheilinus undulatus | Choerodon spp. | Carangids | Sczombrids | Sharks | Other | Total # |
| MBI/COR-011 | 14-Dec-06 | C-site | 3 | SLO | | 8 m | 15 | | 1 | | | | | | | | | 16 |
| MBI/COR-012 | 14-Dec-06 | C-site | 1 | SLO | | | 1 | 1 | 2 | | | | 2 | 3 | | | Bolbometapon, 13 sand bass | 9 |
| MBI/COR-012 | 14-Dec-06 | C-site | 2 | SLO | | | | | 1 | | | | | | | 2 | Bolbometapon, 1 sand bass | 3 |
| MBI/COR-012 | 14-Dec-06 | C-site | 3 | SLO | | | 8 | | 5 | | | | | | | | 6 sand bass | 13 |
| MBI/COR-013 | 15-Dec-06 | P-site | 1 | AKE | low | 6 m | 9 | | 2 | 1 | | | | | | | 5 sweetlips | 12 |
| MBI/COR-013 | 15-Dec-06 | P-site | 2 | AKE | low | 6 m | | | 2 | | | | 1 | | | | 2 sweetlips, 1 angelfish | 3 |
| MBI/COR-013 | 15-Dec-06 | P-site | 3 | AKE | low | 6 m | 3 | | 2 | 3 | | | | | | | · - | 8 |
| | | | | | | | | | | | | | | | | | (E. suillus (1.5m)), 8 sweetlips, 4 | |
| MBI/COR-014 | 15-Dec-06 | P-site | 1 | AKE | low | 5-6 m | 8 | | 3 | 1 | | | 4 | | | 1 | mullids 1 unicornfish | 17 |
| MBI/COR-014 | 15-Dec-06 | P-site | 2 | AKE | low | 5-6 m | 5 | | 3 | 1 | | | 3 | | | | 1 cobbler, 2 angelfish, 2 sweetlips | 12 |
| MBI/COR-014 | 15-Dec-06 | P-site | 3 | AKE | low | 5-6 m | 4 | | 1 | 5 | | | | | | | (incl 1 E. suillus) this cod may have followed us from B1.Also 6 sweetlips, 2 angelfish, 4 bannerfish, 1 <i>Coris aygula</i>) | 10 |
| MBI/COR-015 | 15-Dec-06 | P-site | 1 | AKE | low | 8-10 m | 101 | 4 | 6 | 3 | | | 3 | 16 | | | lutjanids incl 2 juv red emperor, the 3 cod were <i>Epinephelus multinotatus</i> . Also 5 mullids, parrtofish, sweetlips, wrasse | 133 |
| MBI/COR-015 | 15-Dec-06 | P-site | 2 | AKE | low | 8-10 m | 6 | | 4 | 6 | | | 7 | | | | two of the cod were <i>Epinephelus</i> multinotatus. Also parrotfish, 2 batfish, unicornfish, surgeonfish, sweetlips | 23 |
| MBI/COR-015 | 15-Dec-06 | P-site | 3 | AKE | low | 8-10 m | 10 | | 7 | 2 | | | 12 | | | 1 | 5 mullids, 3 angelfish, sweetlips & unicornfish | 32 |
| MBI/COR-016 | 16-Dec-06 | P-site | 1 | AKE | low | | 101 | 2 | 6 | 7 | | | 9 | 7 | | • | 2 pearl perch, 7 parrotfish, 4 bannerfish, 8 sweetlips, 7 spotted sweetlips | 132 |
| MBI/COR-016 | 16-Dec-06 | P-site | 2 | AKE | low | | 13 | | | 3 | | | 3 | | | | 3 pearl perch, 3 angelfish, 2 parrotfish, 1 surgeonfish, 1 cobbler, 3 mullids, 5 sweetlip | 19 |
| MBI/COR-016 | 16-Dec-06 | P-site | 3 | AKE | low | | 101 | 3 | 11 | 2 | | | 6 | | | | lutjanids incl 1 juv red emperor. Also 8 parrotfish, 2 <i>Coris aygula</i> , 5 bannerfish | 123 |
| MBI/COR-017 | 16-Dec-06 | P-site | 1 | AKE | low | 8 m | 9 | | 6 | 1 | | | 6 | 5 | 1 | | 5 surgeonfish, 2 bannerfish | 28 |
| MBI/COR-017 | 16-Dec-06 | P-site | 2 | AKE | low | 8 m | | | | 5 | | | 1 | | | 1 | 1 yellow emperor, 8 sweetlips, sos puffer | 7 |
| MBI/COR-017 | 16-Dec-06 | P-site | 3 | AKE | low | 8 m | | | 4 | 7 | | | 3 | | | | 1 pearl perch, 3 parrotfish, 8 sweetlips, 4 bannerfish, 3 moorish idol, 3 angelfish, >50 surgeonfish | 14 |
| MBI/COR-018 | 16-Dec-06 | C-site | 1 | AKE | low | 10 m | 2 | | | | | | 3 | | | | 2 parrotfish | 5 |
| MBI/COR-018 | 16-Dec-06 | C-site | 2 | AKE | low | 10 m | 2 | | |] | | | 1 | | | | | 3 |

| | | ق | | der | ŧ | (u | ids | nids | Plectropomus | Epinephelus/ cephalopholis | Epinephelus tukula | nus atus | иоро. | gids | Sczombrids | S | | # |
|-------------|-----------|--------|------|----------|------------|----------|-----------|------------|--------------|-------------------------------|------------------------|------------------------|-------------------|-----------|------------|--------|--|---------|
| Site | Date | Method | Rep# | Recorder | Current | Vis. (m) | Lutjanids | Lethrinids | Plectr | Epine | Epine tukula | Cheilinus undulatus | Choerodon spp. | Carangids | Sczon | Sharks | Other | Total # |
| MBI/COR-018 | 16-Dec-06 | C-site | 3 | AKE | low | 10 m | | | | | | | 1 | | | | | 1 |
| MBI/COR-019 | 17-Dec-06 | C-site | 1 | SLO | | | | | | | | | | | | | | 0 |
| MBI/COR-019 | 17-Dec-06 | C-site | 2 | SLO | | | 1 | | | | | | | | | | | 1 |
| MBI/COR-019 | 17-Dec-06 | C-site | 3 | SLO | | | 1 | | | | | | | | | | | 1 |
| MBI/COR-020 | 18-Dec-06 | C-site | 1 | AKE | low | 5 m | 4 | 11 | 1 | | | | 1 | | | | 2 sweetlips, 1 batfish | 17 |
| MBI/COR-020 | 18-Dec-06 | C-site | 2 | AKE | low | 5 m | 3 | 3 | | 2 | | | | | | | 3 parrotfish, 3 unicomfish, 1 sweetlips | 8 |
| MBI/COR-020 | 18-Dec-06 | C-site | 3 | AKE | low | 5 m | 6 | 3 | 2 | | | | | | | | 3 parrotfish, 3 sweetlips, 2 Coris aygula | 11 |
| MBI/COR-021 | 18-Dec-06 | C-site | 1 | SLO | | | 2 | | 1 | | | | 7 | | | | most fish small or juvenile | 10 |
| MBI/COR-021 | 18-Dec-06 | C-site | 2 | SLO | | | 5 | | 1 | | | | 14 | | | | | 20 |
| MBI/COR-021 | 18-Dec-06 | C-site | 3 | SLO | | | 1 | 1 | 1 | | | | 14 | | | | | 17 |
| MBI/COR-022 | 18-Dec-06 | C-site | 1 | AKE | mod/strong | 5-6m | 1 | | | | | | 3 | | | 1 | small wobbegong under coral plate | 5 |
| MBI/COR-022 | 18-Dec-06 | C-site | 2 | AKE | mod/strong | 5-6m | | | | | | | 2 | | | | | 2 |
| MBI/COR-022 | 18-Dec-06 | C-site | 3 | AKE | mod/strong | 5-6m | | | 1 | | | | | | | | only juv coral trout observed at this site. | 1 |
| MBI/COR-023 | 19-Dec-06 | C-site | 1 | SLO | _ | | 7 | 2 | 5 | | | | 5 | | | | | 19 |
| MBI/COR-023 | 19-Dec-06 | C-site | 2 | SLO | | | 12 | 7 | 1 | | | | 3 | | | | 1 barramundi cod, 2 batfish | 23 |
| MBI/COR-023 | 19-Dec-06 | C-site | 3 | SLO | | | 4 | 3 | 1 | 1 | | | 8 | | | | blue spot ray | 17 |
| MBI/COR-024 | 19-Dec-06 | P-site | 1 | SLO | | | 22 | 2 | 8 | | | | 5 | | 1 | | (shark mackeral), 1 barramundi cod, 1 pufferfish | 38 |
| MBI/COR-024 | 19-Dec-06 | P-site | 2 | SLO | | | 1 | 1 | 1 | 1 | | | 1 | | | | 2 grey sweetlips | 5 |
| MBI/COR-024 | 19-Dec-06 | P-site | 3 | SLO | | | 6 | | 6 | 2 | | | 6 | | | | 9 ., | 20 |
| MBI/COR-025 | 20-Dec-06 | P-site | 1 | AKE | low | 8-10m | 101 | 10 | 12 | 3 | | | 6 | | | 2 | 1 white tip shark (2m), 1 tawny nurse shark (1.5m), , 2 Batfish, ~20 parrotfish, surgeonfish, 1 barramundi cod, >100 pearl perch, >100 sweetlips | 134 |
| MBI/COR-025 | 20-Dec-06 | P-site | 2 | AKE | low | 8-10m | 101 | 2 | 1 | 5 | | | 3 | | | | >50 threadfin pearl perch (Glaucosoma magnificusom), 2 batfish, ~50 sweetlips | 112 |
| MBI/COR-025 | 20-Dec-06 | P-site | 3 | AKE | low | 8-10m | 101 | _ | 1 | 2 | | | 1 | | | | 4 bannerfish, 2 lionfish, 8 sweetlips, Estuary cod | 105 |
| MBI/COR-026 | 20-Dec-06 | C-site | 1 | AKE | low | 6-8m | 6 | | | | | | 6 | | | | 2 sp SL, 2 parrotfish | 12 |
| MBI/COR-026 | 20-Dec-06 | C-site | 2 | AKE | low | 6-8m | 3 | | | | | 1 | 5 | | | | goatfish | 8 |
| MBI/COR-026 | 20-Dec-06 | C-site | 3 | AKE | low | 6-8m | 2 | | 1 | | | | 1 | | | 1 | (epaulette shark), 13 sweetlips, 1 pearl perch | 5 |

Appendix 2. Coral predator and other invertebrate data

| | | | | | <i>ipella</i> gregat | | COTS (number and size cm) | | | |
|-------------|-------------------------------|----------|----------|-----------|-------------------------|-----|---------------------------|--------|---|--|
| Site | Transect/ Bommie Number | Date | Recorder | 0 to 4 | 5 to 10 | >10 | size (cm) | number | Other invertebrate observations | Other notes |
| MBI/COR_001 | T1 | 09/12/06 | SJA | | | | | | Trochus, holothurians (brown nobby) | Back-reef seemed to be bleached |
| MBI/COR_001 | T2 | 09/12/06 | SJA | 1 | | | | | Hermit crabs | |
| MBI/COR_001 | T3 | 09/12/06 | SJA | 2 | 3 | | | | Holothurians, cowries, urchin-thin blue/black spines | |
| MBI/COR_002 | T1 | 09/12/06 | SJA | | | | | | Christmas tree worms, holothurians, crinoids, scallops, ascidians, clam, painted crays, sea stars, urchins | Transect ends at fish cage |
| MBI/COR_002 | T2 | 09/12/06 | SJA | | | | | | Christmas tree worms, holothurians (green/black nobby), crinoids, scallops, ascidians, clam, painted crays, sea stars, urchins, turban shell | Transect starts at big purple Porites bommie |
| MBI/COR_002 | Т3 | 09/12/06 | SJA | 1 | | | | | Trochus, holothurians, urchins, crinoids, clams, starfish | |
| MBI/COR_003 | T1 | 10/12/06 | KBA | 4 | 2 | | | | No notes taken | |
| MBI/COR_003 | T2 | 10/12/06 | KBA | 4 | 2 | 1 | | | No notes taken | |
| MBI/COR_003 | T3 | 10/12/06 | KBA | 8 | 2 | | | | No notes taken | |
| MBI/COR_004 | T1 | 10/12/06 | KBA | 1 | | | | | Very little macro inverts | |
| MBI/COR_004 | T2 | 10/12/06 | KBA | | | | | | No Drupella | |
| MBI/COR_004 | T3 | 10/12/06 | KBA | 1 | | | | | Poor visibility | |
| MBI/COR_005 | T1 | 10/12/06 | KBA | 2 | | 1 | | | Several tridacnids (clams), crinoids | |
| MBI/COR_005 | T2 | 10/12/06 | KBA | 2 | | | | | Lots of fungids | |
| MBI/COR_005 | T3 | 10/12/06 | KBA | 4 | 5 | 2 | | | No notes taken | |
| MBI/COR_006 | T1 | 11/12/06 | SJA | 4 | 1 | | | | Trochus, holothurians, clams, cowries, crinoids, turban shell. Did see a Crown of Thorns about 35cm in diameter but it wasn't on the transect | |
| MBI/COR_006 | T2 | 11/12/06 | SJA | 4 | 3 | 2 | | | Drupella comus and D. rugosa present. Holothurians, urchins, turban shells, crinoids, crays, clams, starfish | Lots of money corals. |
| MBI/COR_006 | ТЗ | 11/12/06 | SJA | 5 | 1 | | | | Hermit crabs, cowries, turban shells, crayfish, trochus, tridacnid, holothurians, Diadema, money coral | |

| | | | | | <i>ipella</i> gregat | | COTS (| number | | |
|-------------|-------------------------------|----------|----------|------|-------------------------|-------|------------|--------|--|--------------------|
| Site | Transect/ Bommie Number | Date | Recorder | 0 to | 5 to 10 | >1011 | size (cm) | number | Other invertebrate observations | Other notes |
| MBI/COR_007 | T1 | 11/12/06 | SJA | 3 | | , | 0(0) | | Crayfish, clams, urchins, starfish, ascidians, spider stomb, crinoids | Big potato cod |
| MBI/COR_007 | T2 | 11/12/06 | SJA | 2 | | | | | Crinoids, clams, holothurians, hermit crabs in a spider stromb and a cone shell, seastar - orange small | |
| MBI/COR_007 | T3 | 11/12/06 | SJA | | | | | | Scallops, turban shell, starfish, trochus, crinoids, crayfish, Christmas tree worms, holothurians, colourful small shrimp, tridacnid | |
| MBI/COR_008 | T1 | 11/12/06 | SJA | 6 | 3 | | | | Pin cushion sea star, crinoids, scallops, holothurians, giant clams, bivalves | Tawny nurse shark. |
| MBI/COR_008 | T2 | 11/12/06 | SJA | 2 | 5 | | | | Crinoids, trochus, urchins, lots of scallops, giant clams, holothurians | |
| MBI/COR_008 | Т3 | 11/12/06 | SJA | 2 | 2 | | | | Giant clams, scallops, holothurians, trochus, turban shells | |
| MBI/COR_009 | T1 | 12/12/06 | SJA | | | | | | Christmas tree worms, holothurians, clams, pin cushion sea stars, star fish, crinoids, scallops, crayfish, urchins | |
| MBI/COR_009 | T2 | 12/12/06 | SJA | | | | 30 | 1 | Holothurians, starfish, pin cushion sea stars, tridacnid, Diadema, crinoids, scallops, trochus, ascidians, Christmas tree worms | |
| MBI/COR_009 | Т3 | 12/12/06 | SJA | | | | | | Holothurians, Diadema, tridacnid, hermit crab, pin cushion sea stars, nudibranch, crinoids, scallops, trochus, ascidians, Christmas tree worms | |
| MBI/COR_010 | T1 | 13/12/06 | KBA | 7 | 3 | 1 | | | Crayfish, nudibranchs | |
| MBI/COR_010 | T2 | 13/12/06 | KBA | 7 | 2 | | | | Many trochus | |
| MBI/COR_010 | T3 | 13/12/06 | KBA | 7 | 3 | | | | Diadema | |
| MBI/COR_011 | T1 | 14/12/06 | SJA | | | | 35 | 1 | COTS 30cm not on transect, holothurians, crinoids, urchins, clams, nudibranchs, scallops, crayfish | |
| MBI/COR_011 | T2 | 14/12/06 | SJA | | | | | | Crinoids, urchins, clams, holothurians, scallops | |
| MBI/COR_011 | Т3 | 14/12/06 | SJA | | | | 40, 35, 42 | 3 | Crinoids, urchins, scallops, holothurians, clams, flatworm, starfish, nudibranch | |
| MBI/COR_012 | T1 | 14/12/06 | SJA | | | | 37 | 1 | 2 COTS just off the transect 45cm, 40cm. Urchins, scallops, crinoids, flatworm, clams, holothurians | |
| MBI/COR_012 | T2 | 14/12/06 | SJA | | 1 | | 40 | 1 | 1 COTS off transect 35cm. Crinoids, urchins, scallops, holothurians, starfish | |
| MBI/COR_012 | T3 | 14/12/06 | SJA | | | | 33 | 1 | 1 COTS off transect 50cm. Clams, urchins, crinoids, starfish, holothurians, scallops, crayfish | |

| | | | | | ıpella | | | number | | |
|-------------|-------------------------------|----------|----------|------|----------------------|------|--------|--------|--|---|
| Site | Transect/ Bommie Number | Date | Recorder | 0 to | gregat 5 to 10 | >10n | and si | ze cm) | Other invertebrate observations | Other notes |
| MBI/COR 013 | B1 | 15/12/06 | AKE | 1 | 10 | /10 | 40 | 1 | Crayfish 6, urchins, crinoids, hydroids, 2 tridacnid | Other notes |
| | | 10/12/00 | 71112 | | | | 10 | | oraynon o, aronno, ormolas, nyarolas, z indasina | |
| MBI/COR_013 | B2 | 15/12/06 | AKE | | | | | | Crayfish 2, urchins, blacklip oysters, hydroids, crinoids | |
| MBI/COR_013 | B3 | 15/12/06 | AKE | | | | 33 | 1 | Crayfish 2, 6 urchins, 2 tridacnid | |
| MBI/COR_014 | B1 | 15/12/06 | AKE | | | | | | Crayfish 7, coral shrimp, blacklip oysters, hydroids | |
| MBI/COR_014 | B2 | 15/12/06 | AKE | | | | | | Crayfish 12, variety of sponges, hydroids | |
| MBI/COR_014 | B3 | 15/12/06 | AKE | | | | 35 | 1 | Crayfish 13, octopus | |
| MBI/COR_015 | B1 | 15/12/06 | AKE | | | | | | 9 Urchins, 6 crayfish, Melo amphora very large | Tangles of fishing line on B1 |
| MBI/COR_015 | B2 | 15/12/06 | AKE | | | | | | Crayfish 4, Spanish dancer | |
| MBI/COR_015 | B3 | 15/12/06 | AKE | | | | | | Crayfish 4, 2 urchins, tridacnid | |
| MBI/COR_016 | B1 | 16/12/06 | AKE | | | | | | Urchin, 8 crayfish, blacklip oyster, coral shrimp | Very complex structure |
| MBI/COR_016 | B2 | 16/12/06 | AKE | | | | | | Urchin, 5 crayfish | Smaller bommie |
| MBI/COR_016 | B3 | 16/12/06 | AKE | | | | | | 16 Urchin, 4 crayfish, some coral feeding scars present, 3 tridacnid | Very complex structure |
| MBI/COR_017 | B1 | 16/12/06 | AKE | | | | | | Crinoids, urchins | |
| MBI/COR_017 | B2 | 16/12/06 | AKE | 1 | | | | | 9 crayfish, crinoids | |
| MBI/COR_017 | В3 | 16/12/06 | AKE | | | | | | Coral crabs, 6 crayfish, urchins, crinoids, holothurian | |
| MBI/COR_018 | T1 | 16/12/06 | SJA | 16 | 4 | | | | Trochus, turban shells | Drupella cornus and D. rugosa present. |
| MBI/COR_018 | T2 | 16/12/06 | SJA | 7 | 1 | | | | Large dead baler shell, Christmas tree worms, scallops, crinoids, clams, trochus, turban shells, hermit crab in large Drupella shell, nudibranch | Drupella cornus and D. rugosa present. |
| MBI/COR_018 | T3 | 16/12/06 | SJA | 5 | 2 | | 25 | 1 | Holothurians, crinoids, coral crabs, trochus, turban shells, scallops, clams. | Drupella comus and D. rugosa present. |
| MBI/COR_019 | T1 | 17/12/06 | SJA | 5 | | | | | Coral crabs and shrimp, turban shells, urchins, scallops | Site appears to be similar in composition to Pelican Point at Ningaloo, however in comparison there were fewer <i>Drupella</i> at COR 019. <i>D. comus</i> and <i>D. rugosa</i> present |
| MBI/COR_019 | T2 | 17/12/06 | SJA | 10 | 1 | | | | Urchins, coral crabs, shrimps | Drupella cornus and D. rugosa present. |
| MBI/COR_019 | Т3 | 17/12/06 | SJA | 7 | | | | | Hermit crab in <i>Drupella</i> cornus shell. | Drupella cornus and D. rugosa present. |
| MBI/COR_020 | T1 | 18/12/06 | SLO | | | | | | Pencil urchin, diademnid urchin, crinoids | |
| MBI/COR_020 | T2 | 18/12/06 | SLO | | | | | | Diadema urchin, pencil urchin, crinoids, calcite starfish (corallivorous) | Feeding scars present |
| MBI/COR_020 | Т3 | 18/12/06 | SLO | | | | 40,45 | 2 | Pencil urchin, <i>Diadema</i> urchin, crinoids | |
| MBI/COR_021 | T1 | 18/12/06 | SJA | 3 | | | | | One COTS off the transect 25cm. Urchins, scallops, trochus, oysters, turban shells, crinoids | large fungids |

| | | | | | <i>ipella</i> gregat | | COTS (| number | | |
|-------------|-------------------------------|----------|----------|------|-------------------------|-------|-------------|--------|---|---|
| Site | Transect/ Bommie Number | Date | Recorder | 0 to | 5 to 10 | >10 | size (cm) | number | Other invertebrate observations | Other notes |
| MBI/COR_021 | T2 | 18/12/06 | SJA | 5 | | , , , | 0.20 (0.11) | | Hermit crab in <i>Drupella comus</i> shell, crinoids, scallops, clams, oysters, urchins | large fungids |
| MBI/COR_021 | ТЗ | 18/12/06 | SJA | 3 | | | | | Scallops, urchins, turban shells, oysters, trochus, crinoids, hydroids | large fungids |
| MBI/COR_022 | T1 | 18/12/06 | SJA | 2 | | | | | Hermit crab in <i>Drupella</i> shell, scallops, oysters, turban shells, trochus | many fungids |
| MBI/COR_022 | T2 | 18/12/06 | SJA | 2 | 1 | | | | Trochus, turban shells, scallops, oysters, Christmas tree worms | many fungids |
| MBI/COR_022 | ТЗ | 18/12/06 | SJA | 3 | 3 | 3 | | | Urchins, trochus, turban shells, holothurians, clams | Many fungids. 2 large clusters of <i>Drupella</i> . One was comprised of adult <i>D. cornus</i> and <i>D. rugosa</i> . The other comprised of <i>D. cornus</i> and <i>D. rugosa</i> adults and recruits. Both the adults and recruits from each species appeared to be in the same cohort |
| MBI/COR_023 | T1 | 19/12/06 | SJA | 7 | 1 | | 47 | 1 | Turban shell, Christmas tree worms, scallops, oysters, clams, hydroids, <i>Diadema</i> urchin 3, crayfish 5. | Three COTS off transect 25cm, 30cm, 35cm. <i>D. cornus</i> and <i>D. rugosa</i> present. |
| MBI/COR_023 | T2 | 19/12/06 | SJA | 11 | 2 | 2 | | | Christmas tree worms, trochus, turban, clams, holothurians, oysters, Diadema urchin 1 | Drupella cornus and D. rugosa present. |
| MBI/COR_023 | Т3 | 19/12/06 | SJA | 8 | 2 | 1 | 32 | 1 | Christmas tree worms, oysters, clams, holothurian, turban shells | Drupella cornus and D. rugosa present. |
| MBI/COR_024 | B1 | 19/12/06 | SJA | | | | 33 | 1 | Crayfish 1, tridacnid 2, Diadema urchin 3, pencil urchin 1 | |
| MBI/COR_024 | B2 | 19/12/06 | SJA | | | | | | Diadema urchin 5, pencil urchin 1, bubble anemone with clownfish | |
| MBI/COR_024 | B3 | 19/12/06 | SJA | | | | | | Diadema urchin 2, crayfish 1 | |
| MBI/COR_025 | B1 | 20/12/06 | AKE | | | | | | Tridacnid (giant clams) 7, crayfish 4, Diadema urchin 11 | |
| MBI/COR_025 | B2 | 20/12/06 | AKE | 1 | | | | | Crayfish 10, slate urchin 2, tridacnid 3, Diadema urchin 6 | |
| MBI/COR_025 | B3 | 20/12/06 | AKE | 1 | | | | | Cray fish 7, <i>Diadema</i> 2, tridacnid 3 | Very large <i>Drupella cornus</i> snail approx 8.5cm long. Hermit crab inside |
| MBI/COR_026 | T1 | 20/12/06 | SJA | 8 | 5 | | | | Turban shells 6, coral shrimp, trochus 5, <i>Diadema</i> urchins 4, oysters, Christmas tree worms, giant clam 1, holothurian | Drupella cornus and D. rugosa present. |
| MBI/COR_026 | T2 | 20/12/06 | SJA | 9 | 2 | | | | Turban shells 7, pencil urchin 1, trochus 3, Christmas tree worms, oysters, scallops, holothurian 3, flatworms, Diadema urchins 4 | |
| MBI/COR_026 | Т3 | 20/12/06 | SJA | 14 | 3 | | | | Hermit crab, trochus 2, turban 1, clams, <i>Diadema</i> urchins 3, holothurian 2. | |

Appendix 3. Marine ecological communities data

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|---|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|---------------------------|-----------------------------|----------|------------|
| MBIMPA | A_001 | MBI_0095 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -7.0 | Soft corals (Alcyoniidae) sparse | Soft corals, some rubble on limestone pavement | -20.39670 | 115.58604 | GPS | GDA94 | video | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |
| MBIMPA | A_002 | MBI_0096 | Violet Island/ Trimouille Island | | Reef (low relief) | -7.0 | Reef/turf algae | Sand, pavement, some rubble, algae and some corals, sea urchins | | 115.58419 | GPS | GDA94 | video | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |
| MBIMPA | A_003 | MBI_0097 | Violent Island/Trimoui Ile Island | | Reef (low relief) | -5.2 | Reef/turf algae | Soft corals, sand/pavement, tufts of green algae (?) Sea urchins, lots of bait fish, some hard corals | -20.39792 | 115.58286 | GPS | GDA94 | video | 20061208 | KBA | 08/12/2006 |
| MBIMPA | A_004 | MBI_0098 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | | Reef/turf algae | Pavement, sparse algae tufts | -20.39695 | 115.57968 | GPS | GDA94 | | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |
| MBIMPA | A_005 | MBI_0099 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, turf algae, some soft corals and hard corals | -20.39503 | 115.57581 | GPS | GDA94 | video | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |
| MBIMPA | A_006 | MBI_0100 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -3.8 | Macroalgae (Phaeophyta) sparse | Macroalgae, sand, rubble | -20.39227 | 115.57627 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |
| MBIMPA | A_007 | MBI_0101 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -2.8 | Macroalgae (Phaeophyta) sparse | Macroalgae on limestone pavement | -20.39304 | 115.56815 | GPS | GDA94 | Direct | No Video | KBA | 08/12/2006 |
| MBIMPA | A_008 | MBI_0102 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -2.9 | Macroalgae (Phaeophyta) sparse | Sand rubble with macroalgae, sponge, soft corals, mostly macroalgae to bare | -20.38966 | 115.56860 | GPS | GDA94 | Direct | No Video | KBA | 08/12/2006 |
| MBIMPA | A_009 | MBI_0103 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -2.3 | Macroalgae (Phaeophyta) sparse | Some soft/hard corals (Tubinaria sp) | -20.39031 | 115.56698 | GPS | GDA94 | Direct | No Video | KBA | 08/12/2006 |
| MBIMPA | A_009 | MBI_0104 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Some soft/hard corals (<i>Tubinaria</i> sp) | -20.39014 | 115.56705 | GPS | GDA94 | | | KBA | 08/12/2006 |
| MBIMPA | A_010 | MBI_0105 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -3.0 | Reef/turf algae | Turf algae on limestone pavement | -20.38560 | 115.56540 | GPS | GDA94 | | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |
| MBIMPA | A_011 | MBI_0106 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -6.1 | Macroalgae (Phaeophyta) sparse | Macroalgae on limestone pavement | -20.38282 | 115.56839 | GPS | GDA94 | | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|--|-----------|----------------------|-------|-------------------------------------|--|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | A_012 | MBI_0107 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -8.0 | Soft corals (Alcyoniidae) sparse | Soft corals possibly Sinularia & Sarcophyton | -20.37896 | 115.57396 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |
| MBIMPA | A_012 | MBI_0108 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | | Soft corals (Alcyoniidae) sparse | Soft corals | -20.37831 | 115.57424 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#01_ 20061208 | KBA | 08/12/2006 |
| MBIMPA | B_001 | MBI_0109 | Violet Island/ Trimouille Island | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) sparse | 2 Porites bommies (similar to B-002) | -20.38739 | 115.56585 | GPS | GDA94 | Direct | No Video | AKE | 08/12/2006 |
| | B_002 | MBI_0110 | Violet Island/ Trimouille Island | PIO | Reef (high relief) | -2.5 | Coral reef (Poritidae) medium | Series of <i>Porites</i> bommies with <i>Acropora</i> (corymbose and plate) and <i>Tubinaria</i> , many soft corals. Limestone substrate with boulders, patches of sand and rubble, good diversity of soft corals (star of B001 and B002 about 200mx25m) | -20.38769 | | | GDA94 | Direct | No Video | KBA | 08/12/2006 |
| MBIMPA | B_003 | MBI_0111 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Limestone pavement, sand, rubble with macroalgae no coral at all | -20.39043 | 115.56584 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_004 | MBI_0112 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Limestone pavement, rubble, sand with macroalgae, no corals | -20.39169 | 115.56694 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_005 | MBI_0113 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Limestone pavement with dense macroalgae in middle of bay surrounded by bare sand, no corals | | 115.56906 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_006 | MBI_0114 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Limestone pavement, with sand/rubble, macroalgae, some small hard corals | -20.39567 | 115.57002 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_007 | MBI_0115 | Violet Island/ Trimouille Island | PIO | Reef (high relief) | -3.5 | Soft corals (Alcyoniidae) dense | Adjacent to exposed rock, rocky substrate with gutters and overhangs, patches of high density soft corals also with <i>Acropora</i> plates | | 115.58354 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_008 | MBI_0116 | Violet Island/ Trimouille Island | PIO | Reef (high relief) | -5.0 | Coral reef (mixed) medium | Rocky bottom with diverse corals also plate Acropora | -20.39577 | 115.58396 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_009 | MBI_0117 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -5.0 | Coral reef (Acroporidae) sparse | Limestone pavement with sand patches, sparse soft corals (Sinularia), some Acropora plates, low density of corals | -20.39385 | 115.58252 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_010 | MBI_0118 | | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) medium | Rock with sand/rubble gutters, medium density of soft corals (Sinularia), some hard corals, immediately seaward of large exposed rock | -20.38931 | 115.57925 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_011 | MBI_0119 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -10.0 | Reef/turf algae | Appear to be mostly bare pavement, no corals observed | -20.38773 | 115.58419 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#02- 20061209 | AKE | 09/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|--|-----------|-----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | B_012 | _ | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -10.0 | Reef/turf algae | Appears to be mostly bare limestone substrate (or all)?? | -20.38670 | 115.58289 | | GDA94 | video | MSP/MBI/DDV#02- 20061209 | | 09/12/2006 |
| MBIMPA | B_013 | MBI_0121 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -6.0 | Soft corals (Alcyoniidae) sparse | Rocky substrate with patches of sand/rubble, soft corals (<i>Sinularia</i>), on the rocks, offshore from B-010 | -20.38874 | 115.58201 | GPS | GDA94 | video | MSP/MBI/DDV#02- 20061209 | AKE | 09/12/2006 |
| MBIMPA | B_014 | MBI_0122 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) sparse | Rock/rubble/sand bottom sparse cover of macroalgae and some corals | -20.38632 | 115.57907 | GPS | GDA94 | video | MSP/MBI/DDV#02- 20061209 | AKE | 09/12/2006 |
| MBIMPA | B_015 | MBI_0123 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -5.0 | Soft corals (Alcyoniidae) dense | High density soft corals (Sarcophyton & Sinularia) in plates with patches of rubble/sand, some hard coral mostly Acropora plate, not much algae if any | -20.38337 | 115.57619 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#02- 20061209 | AKE | 09/12/2006 |
| MBIMPA | B_016 | MBI_0124 | Violet Island/ Trimouille Island | PIO | Reef (low relief) | -4.0 | Coral reef (Acroporidae) medium | Area of rock, rubble substrate, pacthes of high density soft and hard coral, <i>Acropora</i> plate, extends to -20.37981, 115.57152 | -20.38067 | 115.57254 | GPS | GDA94 | Direct | No Video | AKE | 09/12/2006 |
| MBIMPA | B_017 | MBI_0125 | Bunsen Channel | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) dense | Dense macroalgae, sand patches | -20.38332 | 115.54230 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |
| | B_018 | MBI_0126 | North West Island | | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.36237 | | | GDA94 | Direct | No Video | | 09/12/2006 |
| MBIMPA | B_019 | MBI_0127 | North West Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, algal turf, pavement | -20.36132 | 115.53077 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |
| MBIMPA | B_020 | MBI_0128 | | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) dense | Dense macroalgae on old limestone boulders and rubble, occasional soft coral | -20.36051 | 115.52897 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |
| MBIMPA | B_021 | MBI_0129 | North West Island | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae and sand, bluespotted stingray | -20.35734 | 115.52615 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |
| MBIMPA | B_022 | MBI_0130 | North West Island | | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.35377 | 115.52508 | GPS | GDA94 | Direct | No Video | | 09/12/2006 |
| MBIMPA | B_023 | MBI_0131 | North West Island | PIO | Reef (low relief) | -8.0 | Macroalgae (Phaeophyta) sparse | Macroalgae on pavement/sand, low relief | -20.34965 | 115.52470 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |
| MBIMPA | B_024 | MBI_0132 | North West Island | PIO | Reef (low relief) | | Reef/turf algae | Sand on pavement with the occasional holothurian | -20.34480 | 115.52096 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |
| MBIMPA | B_025 | MBI_0133 | North West Island | PIO | / | -2.0 | Reef/turf algae | Algae/turf on sand | -20.34703 | 115.51684 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |
| | B_026 | _ | North West Island | | Reef (high relief) | -2.0 | Coral reef (Poritidae) sparse | Bommie field - little massive and submassive bommies among rubble and sand substrate. Softies growing on top of bommies. Low total coral cover (10-20%) but quite interesting habitat | | | | GDA94 | Direct | No Video | | 09/12/2006 |
| | B_027 | _ | North West Island | | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Sand and macroalgae | -20.35247 | | | GDA94 | Direct | No Video | | 09/12/2006 |
| MBIMPA | B_028 | MBI_0136 | North West Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.35757 | 115.51467 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------------------------|-----------|----------------------|-------|------------------------------------|---|-----------|-----------|----------|-------|--------------------|--------------------------|----------|------------|
| | B_029 | MBI_0137 | North West Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Macroalge on sand | -20.35856 | | GPS | GDA94 | Direct | No Video | | 09/12/2006 |
| | B_030 | _ | North West Island | | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | | 115.53819 | | GDA94 | Direct | No Video | | 09/12/2006 |
| MBIMPA | B_031 | MBI_0139 | North West Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, rubble sand | -20.37215 | 115.53600 | GPS | GDA94 | Direct | No Video | SLO | 09/12/2006 |
| MBIMPA | COR_001T1 | MBI_0140 | West of Bluebell Island | PIO | Reef (low relief) | -1.6 | Coral reef (Acroporidae) medium | Back-reef site; >10% tabulate and corymbose Acropora spp.; rubble/turf algae and reef/turf algae; limestone substrate; sand patches present particularly on the northern edge of the coral habitat; very shallow; highly exposed to long period swell and moderate exposure to cyclonic wave action | | 115.50008 | | GDA94 | Direct | MBI/COR_001- 20061209 | | 09/12/2006 |
| MBIMPA | COR_001T1 | MBI_0141 | West of Bluebell Island | PIO | Reef (low relief) | -1.6 | Coral reef (Acroporidae) medium | Back-reef site; >10% tabulate and corymbose Acropora spp.; rubble/turf algae and reef/turf algae; limestone substrate; sand patches present particularly on the northern edge of the coral habitat; very shallow; highly exposed to long period swell and moderate exposure to cyclonic wave action | | 115.50020 | GPS | GDA94 | Direct | MBI/COR_001- 20061209 | | 09/12/2006 |
| MBIMPA | COR_001T2 | MBI_0142 | West of Bluebell Island | PIO | Reef (low relief) | -1.6 | Coral reef (Acroporidae) medium | Back-reef site; >10% tabulate and corymbose Acropora spp.; rubble/turf algae and reef/turf algae; limestone substrate; sand patches present particularly on the northern edge of the coral habitat; very shallow; highly exposed to long period swell and moderate exposure to cyclonic wave action | | 115.50029 | GPS | GDA94 | Direct | MBI/COR_001- 20061209 | | 09/12/2006 |
| | COR_001T2 | | Bluebell Island | PIO | Reef (low relief) | -1.6 | Coral reef (Acroporidae) medium | Back-reef site; >10% tabulate and corymbose Acropora spp.; rubble/turf algae and reef/turf algae; limestone substrate; sand patches present particularly on the northern edge of the coral habitat; very shallow; highly exposed to long period swell and moderate exposure to cyclonic wave action | | 115.50036 | | GDA94 | Direct | MBI/COR_001- 20061209 | | 09/12/2006 |
| MBIMPA | COR_001T3 | MBI_0144 | West of Bluebell Island | PIÓ | Reef (low relief) | -1.6 | Coral reef (Acroporidae) medium | Back-reef site; >10% tabulate and corymbose Acropora spp.; rubble/turf algae and reef/turf algae; limestone substrate; sand patches present particularly on the northern edge of the coral habitat; very shallow; highly exposed to long period swell and moderate exposure to cyclonic wave action | -20.40119 | 115.50062 | GPS | GDA94 | Direct | MBI/COR_001- 20061209 | | 09/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------------------------|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| MBIMPA | COR_001T3 | MBI_0145 | West of Bluebell Island | | Reef (low relief) | -1.6 | Coral reef (Acroporidae) medium | Back-reef site; >10% tabulate and corymbose Acropora spp.; rubble/turf algae and reef/turf algae; limestone substrate; sand patches present particularly on the northern edge of the coral habitat; very shallow; highly exposed to long period swell and moderate exposure to cyclonic wave action | -20.40071 | 115.50068 | GPS | GDA94 | Direct | MBI/COR_001- 20061209 | | 09/12/2006 |
| | COR_002T1 | _ | Trimouille Is | | Reef (low relief) | -3.5 | Soft corals (Alcyoniidae) medium | Reef in an area fringing and protected by a rocky point to the north; sparse hard coral cover ~10% cover; includes tabular acroporid, corymbose pocilloporid and massive poritid hard corals; ~15% cover of soft corals mainly Sinularia spp.; sandy substrate | | | | GDA94 | Direct | MBI/COR_002- 20061209 | | 09/12/2006 |
| MBIMPA | COR_002T1 | MBI_0147 | Pitt Pt, Trimouille Is | | Reef (low relief) | -3.5 | Soft corals (Alcyoniidae) medium | Reef in an area fringing and protected by a rocky point to the north; sparse hard coral cover ~10% cover; includes tabular acroporid, corymbose pocilloporid and massive poritid hard corals; ~15% cover of soft corals mainly <i>Sinularia</i> spp.; sandy substrate | | 115.56455 | | GDA94 | Direct | MBI/COR_002- 20061209 | | 09/12/2006 |
| MBIMPA | COR_002T2 | MBI_0148 | Pitt Pt, Trimouille Is | PIO | Reef (low relief) | -3.5 | Soft corals (Alcyoniidae) medium | Reef in an area fringing and protected by a rocky point to the north; sparse hard coral cover ~10% cover; includes tabular acroporid, corymbose pocilloporid and massive poritid hard corals; ~15% cover of soft corals mainly <i>Sinularia</i> spp.; sandy substrate | -20.38746 | 115.56445 | GPS | GDA94 | Direct | MBI/COR_002- 20061209 | | 09/12/2006 |
| MBIMPA | COR_002T2 | MBI_0149 | Pitt Pt, Trimouille Is | PIO | Reef (low relief) | -3.5 | Soft corals (Alcyoniidae) medium | Reef in an area fringing and protected by a rocky point to the north; sparse hard coral cover ~10% cover; includes tabular acroporid, corymbose pocilloporid and massive poritid hard corals; ~15% cover of soft corals mainly <i>Sinularia</i> spp.; sandy substrate | | 115.56482 | GPS | GDA94 | Direct | MBI/COR_002- 20061209 | | 09/12/2006 |
| MBIMPA | COR_002T3 | MBI_0150 | Pitt Pt, Trimouille Is | PIO | Reef (low relief) | -3.5 | Soft corals (Alcyoniidae) medium | Reef in an area fringing and protected by a rocky point to the north; sparse hard coral cover ~10% cover; includes tabular acroporid, corymbose pocilloporid and massive poritid hard corals; ~15% cover of soft corals mainly <i>Sinularia</i> spp.; sandy substrate | | 115.56483 | GPS | GDA94 | Direct | MBI/COR_002- 20061209 | | 09/12/2006 |
| MBIMPA | COR_002T3 | MBI_0151 | Pitt Pt, Trimouille Is | PIO | Reef (low relief) | -3.5 | Soft corals (Alcyoniidae) medium | Reef in an area fringing and protected by a rocky point to the north; sparse hard coral cover ~10% cover; includes tabular acroporid, corymbose pocilloporid and massive poritid hard corals; ~15% cover of soft corals mainly <i>Sinularia</i> spp.; sandy substrate | -20.38774 | 115.56530 | GPS | GDA94 | Direct | MBI/COR_002- 20061209 | | 09/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------------------------|-----------|----------------------|-------|-----------------------------------|--|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | C_001 | MBI_0152 | South Trimouille Island | PIO | Reef (low relief) | -10.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, sand, a few soft corals, rubble, rocks | -20.36675 | 115.55432 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#03- 20061210 | SAR | 10/12/2006 |
| MBIMPA | C_002 | MBI_0153 | South Trimouille Island | | Reef (low relief) | -13.0 | Macroalgae (Phaeophyta) sparse | Sand with rock, macroalgae growing over rock and on sand, few sparsely spaced hard and soft corals | -20.36138 | 115.54700 | GPS | GDA94 | video | MSP/MBI/DDV#03- 20061210 | SAR | 10/12/2006 |
| MBIMPA | C_003 | MBI_0154 | South Trimouille Island | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, turf algae and sand patches | -20.35515 | 115.53926 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#03- 20061210 | SAR | 10/12/2006 |
| MBIMPA | C_004 | MBI_0155 | South Trimouille Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, rocky bottom, pavement, rubble, a few soft corals | -20.40090 | 115.58396 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_008 | MBI_0156 | South Trimouille Island | PIO | Reef (low relief) | -7.0 | Macroalgae (Phaeophyta) sparse | Rocky, macroalgae | -20.40013 | 115.58628 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#03- 20061210 | SAR | 10/12/2006 |
| MBIMPA | C_009 | MBI_0157 | South Trimouille Island | PIO | Reef (low relief) | -12.0 | Macroalgae (Phaeophyta) sparse | Sand, macroalgae, a few soft corals | -20.39861 | 115.58904 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#03- 20061210 | SAR | 10/12/2006 |
| MBIMPA | C_010 | MBI_0158 | South Trimouille Island | PIO | Reef (low relief) | -2.0 | Coral reef (mixed) sparse | Live and dead hard coral, soft coral, sand | -20.40525 | 115.58163 | GPS | GDA94 | Direct | No Video | KBA | 10/12/2006 |
| MBIMPA | C_011 | MBI_0159 | South Trimouille Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, rubble | -20.40717 | 115.58210 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_012 | MBI_0160 | South Trimouille Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae on pavement, odd coral colony | -20.40875 | 115.58210 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_013 | MBI_0161 | South Trimouille Island | PIO | Reef (low relief) | -1.0 | Macroalgae (Phaeophyta) sparse | Macroalgae over rubble and sand, small coral colonies - sparse | -20.41018 | 115.57877 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_014 | MBI_0162 | South Trimouille Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae on pavement and sand | -20.41231 | 115.57967 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_015 | MBI_0163 | | PIO | Reef (low relief) | -1.5 | Macroalgae (Phaeophyta) sparse | Macroalgae and pavement | -20.41281 | 115.57858 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_016 | MBI_0164 | South Trimouille Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.41464 | 115.58047 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_017 | MBI_0165 | | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.41382 | 115.58202 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------------------------|-----------|-----------------------|-------|---------------------------------------|--|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | C_018 | MBI_0166 | South Trimouille Island | PIO | Reef (low relief) | -8.0 | Macroalgae (Phaeophyta) sparse | Rocky substrate, macroalgae and soft corals | -20.41373 | 115.58854 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_019 | MBI_0167 | South Trimouille Island | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Sand and macroalgae | -20.41849 | 115.59062 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#03- 20061210 | SAR | 10/12/2006 |
| MBIMPA | C_020 | MBI_0168 | South Trimouille Island | | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Sand and macroalgae | -20.42194 | 115.58851 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_021 | MBI_0169 | South Trimouille Island | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae and sand | -20.41748 | 115.58571 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_022 | MBI_0170 | South East Island | PIO | Reef (high relief) | -5.0 | Coral reef (Poritidae) | Bommies, live hard coral | -20.40696 | 115.58312 | GPS | GDA94 | Direct | No Video | SAR | 10/12/2006 |
| MBIMPA | C_023 | MBI_0171 | South East Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Limestone pavement and boulders, mostly algae, some corals (soft and hard), <i>Acropora</i> plates and corymbose, also largish sand patches, large hydroids on bommies | | 115.59581 | GPS | GDA94 | Direct | No Video | AKE | 10/12/2006 |
| MBIMPA | C_024 | MBI_0172 | South East Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Limestone boulders and bommies and sand patches, algae, soft corals and hydroids on hard substrate, some Acropora - small colonies and only a few | -20.42595 | 115.59469 | GPS | GDA94 | Direct | No Video | AKE | 10/12/2006 |
| | COR_003T1 | | Island | | Reef (high relief) | -1.5 | Coral reef (Pocilloporidae) sparse | coral cover <20%; main hard coral species were pocilloporids, acroporid and poritid; benthos was dominated by turf algae covered reef pavement; very shallow; moderate exposure to long-period swell | | 115.51375 | | GDA94 | Direct | MBI/COR_003- 20061210 | | 10/12/2006 |
| MBIMPA | COR_003T1 | MBI_0174 | North West Island | PIO | Reef (high relief) | -1.5 | Coral reef (Pocilloporidae) sparse | An area of low coral cover, on the relatively sheltered southern edge of a reef; low hard coral cover <20%; main hard coral species were pocilloporids, acroporid and poritid; benthos was dominated by turf algae covered reef pavement; very shallow; moderate exposure to long-period swell | | 115.51419 | GPS | GDA94 | Direct | MBI/COR_003- 20061210 | | 10/12/2006 |
| MBIMPA | COR_003T2 | MBI_0175 | North West Island | PIO | Reef (high relief) | -1.5 | Coral reef (Pocilloporidae) sparse | An area of low coral cover, on the relatively sheltered southern edge of a reef; low hard coral cover <20%; main hard coral species were pocilloporids, acroporid and poritid; benthos was dominated by turf algae covered reef pavement; very shallow; moderate exposure to long-period swell | | 115.51454 | GPS | GDA94 | Direct | MBI/COR_003- 20061210 | | 10/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------|-----------|-----------------------|-------|---------------------------------------|--|-----------|-----------|----------|-------|---------------------------|--------------------------|----------|------------|
| MBIMPA | COR_003T2 | MBI_0176 | Island | | Reef (high relief) | -1.5 | Coral reef | An area of low coral cover, on the relatively sheltered southern edge of a reef; low hard coral cover <20%; main hard coral species were pocilloporids, acroporid and poritid; benthos was dominated by turf algae covered reef pavement; very shallow; moderate exposure to long-period swell | | 115.51504 | GPS | GDA94 | Direct | MBI/COR_003- 20061210 | | 10/12/2006 |
| | COR_003T3 | | Island | | Reef (high relief) | -1.5 | Coral reef (Pocilloporidae) sparse | An area of low coral cover, on the relatively sheltered southern edge of a reef; low hard coral cover <20%; main hard coral species were pocilloporids, acroporid and poritid; benthos was dominated by turf algae covered reef pavement; very shallow; moderate exposure to long-period swell | | | | | Direct | MBI/COR_003- 20061210 | | 10/12/2006 |
| MBIMPA | COR_003T3 | MBI_0178 | North West Island | PIO | Reef (high relief) | -1.5 | Coral reef (Pocilloporidae) sparse | An area of low coral cover, on the relatively sheltered southern edge of a reef; low hard coral cover <20%; main hard coral species were pocilloporids, acroporid and poritid; benthos was dominated by turf algae covered reef pavement; very shallow; moderate exposure to long-period swell | | 115.51558 | GPS | GDA94 | Direct | MBI/COR_003- 20061210 | | 10/12/2006 |
| MBIMPA | COR_004T1 | MBI_0179 | North West Is | | Reef (high relief) | -2.8 | Coral reef (Poritidae) medium | A narrow (10-20 m) strip of coral habitat on the edge of a deep hole in intertidal reef area; <20% hard coral cover; an arborescent non-acroporid, likely poritid, was the dominant hard coral; relatively shallow; very sheltered area; slight E current was experienced | | 115.52574 | GPS | GDA94 | Direct | MBI/COR_004- 20061210 | | 10/12/2006 |
| MBIMPA | COR_004T1 | MBI_0180 | Sack Bay, North West Is | PIO | Reef (high relief) | -2.8 | Coral reef (Poritidae) medium | A narrow (10-20 m) strip of coral habitat on the edge of a deep hole in intertidal reef area; <20% hard coral cover; an arborescent non-acroporid, likely poritid, was the dominant hard coral; relatively shallow; very sheltered area; slight E current was experienced | | 115.52552 | GPS | GDA94 | Direct | MBI/COR_004- 20061210 | | 10/12/2006 |
| MBIMPA | COR_004T2 | MBI_0181 | Sack Bay, North West Is | | Reef (high relief) | -2.8 | Coral reef (Poritidae) medium | A narrow (10-20 m) strip of coral habitat on the edge of a deep hole in intertidal reef area; <20% hard coral cover; an arborescent non-acroporid, likely poritid, was the dominant hard coral; relatively shallow; very sheltered area; slight E current was experienced | -20.36895 | 115.52545 | GPS | GDA94 | Direct | MBI/COR_004- 20061210 | | 10/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------|-----------|-----------------------|-------|------------------------------------|--|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| | COR_004T2 | | North West Is | | Reef (high relief) | -2.8 | Coral reef (Poritidae) medium | A narrow (10-20 m) strip of coral habitat on the edge of a deep hole in intertidal reef area; <20% hard coral cover; an arborescent non-acroporid, likely poritid, was the dominant hard coral; relatively shallow; very sheltered area; slight E current was experienced | | 115.52551 | GPS | GDA94 | Direct | MBI/COR_004- 20061210 | | 10/12/2006 |
| | COR_004T3 | | North West Is | | Reef (high relief) | | Coral reef (Poritidae) medium | A narrow (10-20 m) strip of coral habitat on the edge of a deep hole in intertidal reef area; <20% hard coral cover; an arborescent non-acroporid, likely poritid, was the dominant hard coral; relatively shallow; very sheltered area; slight E current was experienced | | 115.52526 | | | Direct | MBI/COR_004- 20061210 | | 10/12/2006 |
| MBIMPA | COR_004T3 | MBI_0184 | Sack Bay, North West Is | PIO | Reef (high relief) | -2.8 | Coral reef (Poritidae) medium | A narrow (10-20 m) strip of coral habitat on the edge of a deep hole in intertidal reef area; <20% hard coral cover; an arborescent non-acroporid, likely poritid, was the dominant hard coral; relatively shallow; very sheltered area; slight E current was experienced | -20.36997 | 115.52547 | GPS | GDA94 | Direct | MBI/COR_004- 20061210 | | 10/12/2006 |
| MBIMPA | COR_005T1 | MBI_0185 | North Bunsen Channel | PIO | Reef (high relief) | -3.3 | Coral reef (Acroporidae) medium | A narrow band of reef (<20m) fringing a deep channel; low hard coral cover <20%; main hard corals were massive poritids, with corymbose acroporids and other corymbose/encrusting corals; relatively sheltered; very sheltered within island group; a strong N current present | | 115.54197 | GPS | GDA94 | Direct | MBI/COR_005- 20061210 | | 10/12/2006 |
| MBIMPA | COR_005T1 | MBI_0186 | North Bunsen Channel | PIO | Reef (high relief) | -3.3 | Coral reef (Acroporidae) medium | A narrow band of reef (<20m) fringing a deep channel; low hard coral cover <20%; main hard corals were massive poritids, with corymbose acroporids and other corymbose/encrusting corals; relatively sheltered; very sheltered within island group; a strong N current present | | 115.54223 | GPS | GDA94 | Direct | MBI/COR_005- 20061210 | | 10/12/2006 |
| | | | North Bunsen Channel | | relief) | -3.3 | Coral reef (Acroporidae) medium | A narrow band of reef (<20m) fringing a deep channel; low hard coral cover <20%; main hard corals were massive poritids, with corymbose acroporids and other corymbose/encrusting corals; relatively sheltered; very sheltered within island group; a strong N current present | | 115.54231 | GPS | GDA94 | Direct | MBI/COR_005- 20061210 | | 10/12/2006 |
| MBIMPA | COR_005T2 | MBI_0188 | North Bunsen Channel | PIO | Reef (high relief) | -3.3 | Coral reef (Acroporidae) medium | A narrow band of reef (<20m) fringing a deep channel; low hard coral cover <20%; main hard corals were massive poritids, with corymbose acroporids and other corymbose/encrusting corals; relatively sheltered; very sheltered within island group; a strong N current present | | 115.54264 | GPS | GDA94 | Direct | MBI/COR_005- 20061210 | | 10/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------------------|-----------|-----------------------|-------|------------------------------------|--|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | COR_005T3 | MBI_0189 | North Bunsen Channel | PIO | Reef (high relief) | -3.3 | Coral reef (Acroporidae) medium | A narrow band of reef (<20m) fringing a deep channel; low hard coral cover <20%; main hard corals were massive poritids, with corymbose acroporids and other corymbose/encrusting corals; relatively sheltered; very sheltered within island group; a strong N current present | | 115.54258 | | GDA94 | Direct | MBI/COR_005- 20061210 | | 10/12/2006 |
| MBIMPA | COR_005T3 | MBI_0190 | North Bunsen Channel | PIO | Reef (high relief) | -3.3 | Coral reef (Acroporidae) medium | A narrow band of reef (<20m) fringing a deep channel; low hard coral cover <20%; main hard corals were massive poritids, with corymbose acroporids and other corymbose/encrusting corals; relatively sheltered; very sheltered within island group; a strong N current present | | 115.54288 | GPS | GDA94 | Direct | MBI/COR_005- 20061210 | | 10/12/2006 |
| MBIMPA | Z_001 | MBI_0191 | North West Island | PIO | Reef (high relief) | | Macroalgae (Phaeophyta) dense | Macroalgae about 150-200mm high, turf algae and limestone pavement | -20.35956 | 115.51216 | GPS | GDA94 | Direct | No Video | KBA | 10/12/2006 |
| MBIMPA | Z_002 | MBI_0192 | North West Island | PIO | Reef (high relief) | -1.0 | Macroalgae (Phaeophyta) dense | Macroalgae cover dominate over limestone with some hard and soft corals | -20.34854 | 115.52080 | GPS | GDA94 | Direct | No Video | KBA | 10/12/2006 |
| MBIMPA | Z_003 | MBI_0193 | North West | PIO | Reef (high relief) | -3.0 | Reef/turf algae | Sparse hard and soft corals on top of reef, spur and groove type setup | -20.34581 | 115.51660 | GPS | GDA94 | Direct | No Video | KBA | 10/12/2006 |
| MBIMPA | Z_004 | MBI_0194 | North West | PIO | Reef (high relief) | -3.0 | Reef/turf algae | Bare reef some algae turf, few corals etcà | -20.34398 | 115.51364 | GPS | GDA94 | Direct | No Video | KBA | 10/12/2006 |
| MBIMPA | Z_005 | MBI_0195 | North West Island | PIO | Reef (high relief) | -1.0 | Macroalgae (Phaeophyta) sparse | Macroalgae on dead coral bumps, sand in between | -20.36883 | 115.52261 | GPS | GDA94 | Direct | No Video | KBA | 10/12/2006 |
| MBIMPA | Z_006 | MBI_0196 | | PIO | Reef (high relief) | -1.0 | Coral reef (Poritidae) sparse | Coral bommies | -20.39129 | 115.54330 | GPS | GDA94 | Direct | No Video | KBA | 10/12/2006 |
| MBIMPA | C_025 | MBI_0197 | South East Island | PIO | Reef (high relief) | -3.0 | Coral reef (Poritidae) sparse | Limestone bommies and sand/rubble, little macroalgae here, mostly soft coral and hydroids but sparse - mostly bare rock | -20.42793 | 115.59356 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_026 | MBI_0198 | South East Island | PIO | Reef (high relief) | -1.0 | Coral reef (mixed) sparse | Rubble bottom, some <i>Porites</i> bommies and <i>Acropora</i> plates, a lot of dead coral | -20.42551 | 115.59232 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_027 | MBI_0199 | South East Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) dense | Pavement substrate with sand patches and rubble, only algae, no corals seen | -20.42436 | 115.58453 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_028 | MBI_0200 | Dandelion Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) dense | Rubble/pavement, dense macroalgae | -20.42955 | 115.58327 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_029 | MBI_0201 | Dandelion Island | PIO | Reef (high relief) | -3.0 | Coral reef (mixed) medium | Series of bommies and rocks, hard and soft coral, complex relief, patchy corals, high density in small patches, maybe only 100m in length and drops into deep water with bare rubble substrate | -20.43345 | 115.58391 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_030 | MBI_0202 | Dandelion Island | PIO | Reef (low relief) | -12.0 | Reef/turf algae | Mostly bare substrate - sand/pavement, some algae, check the tape | -20.43827 | 115.58497 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#04- 20061211 | AKE | 11/12/2006 |
| MBIMPA | C_031 | MBI_0203 | Daisy Island | PIO | Reef (low relief) | -7.0 | Reef/turf algae | Mostly bare substrate (similar to C-030) | -20.44374 | 115.58563 | GPS | GDA94 | | MSP/MBI/DDV#04- 20061211 | AKE | 11/12/2006 |
| MBIMPA | C_032 | MBI_0204 | Daisy Island | PIO | Reef (low relief) | -9.0 | Reef/turf algae | Mostly bare substrate (similar to C-030) | -20.44873 | 115.58671 | GPS | GDA94 | | MSP/MBI/DDV#04- 20061211 | AKE | 11/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|--------------------------------------|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | C_033 | MBI_0205 | Flag Island | PIO | Reef (low relief) | -10.0 | Reef/turf algae | Mostly bare substrate (similar to C-030) | -20.45580 | 115.58747 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#04- 20061211 | AKE | 11/12/2006 |
| MBIMPA | C_034 | | Flag Island | PIO | Sand | -11.0 | Sand | Bare sand | -20.46276 | 115.58799 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#04- 20061211 | AKE | 11/12/2006 |
| MBIMPA | C_035 | MBI_0207 | Flag Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) dense | Dense macroalgae, pavement and sand | -20.46404 | 115.58219 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_036 | MBI_0208 | Flag Island | | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) dense | Dense macroalgae on pavement, scattered hard corals - small only | -20.46344 | 115.57843 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_037 | MBI_0209 | Flag Island | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) medium | 6-8 large <i>Porites</i> bommies with <i>Acropora</i> and hydroids on sand | -20.46168 | 115.57758 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_038 | MBI_0210 | Flag Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) dense | Dense macroalgae in otheriwse sandy bay | -20.45901 | 115.57806 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_039 | MBI_0211 | Flag Island | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) sparse | Isolated <i>Porites</i> bommies, with <i>Acropora</i> surrounded by rubble/algae | -20.45594 | 115.57911 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_040 | MBI_0212 | Flag Island | PIO | Reef (high relief) | -2.0 | Coral reef (mixed) sparse | Rocks/bommies on rubble, low density sorft and hard corals | -20.45245 | 115.58161 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_041 | MBI_0213 | Dandelion Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) dense | In between islands, pavement with macroalgae | -20.44224 | 115.57918 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_042 | MBI_0214 | Dandelion Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) dense | Dense algae with scattered soft corals | -20.43931 | 115.58160 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_043 | MBI_0215 | Dandelion Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) dense | Dense algae, no corals | -20.43691 | 115.57919 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_044 | MBI_0216 | Campbell Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) dense | Rubble, limestone pavement with alge, some small Acropora, | -20.41169 | 115.54288 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_045 | MBI_0217 | Campbell Island | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Small patch of soft and hard corals on south side of headland. West of Rose Island this patch only about 50m in length. All east coast of N. Delta is sand with patches of maroalgae | -20.42371 | 115.54557 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_046 | MBI_0218 | Delta Island | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) dense | Good density of soft corals about 150m | -20.43756 | 115.54863 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| MBIMPA | C_047 | MBI_0219 | Delta Island | PIO | Reef (low relief) | -1.0 | Soft corals (Alcyoniidae) dense | Scattered soft/hard corals, small area | -20.44526 | 115.54521 | GPS | GDA94 | Direct | No Video | AKE | 11/12/2006 |
| | COR_006T1 | | Bay, Trimouille Is | PIO | Reef (low relief) | -0.8 | Coral reef (Acroporidae) medium | Shallow back reef area close to the shoreline; ~20% live hard coral cover; most dominant hard corals being tabulate acroporids; some encrusting/sub-massive poritids, favids and montiporids algal turf covered reef pavement with sand patches to the west | -20.40527 | 115.58188 | | GDA94 | Direct | MBI/COR_006- 20061211 | | 11/12/2006 |
| MBIMPA | COR_006T1 | MBI_0221 | Benedicline Bay, Trimouille Is | PIO | Reef (low relief) | -0.8 | Coral reef (Acroporidae) medium | Shallow back reef area close to the shoreline; -20% live hard coral cover; most dominant hard corals being tabulate acroporids; some encrusting/sub-massive poritids, favids and montiporids algal turf covered reef pavement with sand patches to the west | -20.40507 | 115.58146 | GPS | GDA94 | Direct | MBI/COR_006- 20061211 | | 11/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|--------------------------------------|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| | COR_006T2 | _ | Bay, Trimouille Is | | Reef (low relief) | -0.8 | Coral reef (Acroporidae) medium | Shallow back reef area close to the shoreline; -20% live hard coral cover; most dominant hard corals being tabulate acroporids; some encrusting/sub-massive poritids, favids and montiporids algal turf covered reef pavement with sand patches to the west | -20.40562 | | | GDA94 | Direct | MBI/COR_006- 20061211 | | 11/12/2006 |
| MBIMPA | COR_006T2 | MBI_0223 | Benedicline Bay, Trimouille Is | | Reef (low relief) | -0.8 | Coral reef (Acroporidae) medium | Shallow back reef area close to the shoreline; ~20% live hard coral cover; most dominant hard corals being tabulate acroporids; some encrusting/sub-massive poritids, favids and montiporids algal turf covered reef pavement with sand patches to the west | -20.40538 | 115.58132 | GPS | GDA94 | Direct | MBI/COR_006- 20061211 | | 11/12/2006 |
| MBIMPA | COR_006T3 | MBI_0224 | Benedicline Bay, Trimouille Is | _ | Reef (low relief) | -0.8 | Coral reef (Acroporidae) medium | Shallow back reef area close to the shoreline; ~20% live hard coral cover; most dominant hard corals being tabulate acroporids; some encrusting/sub-massive poritids, favids and montiporids algal turf covered reef pavement with sand patches to the west | -20.40566 | 115.58121 | GPS | GDA94 | Direct | MBI/COR_006- 20061211 | | 11/12/2006 |
| MBIMPA | COR_006T3 | MBI_0225 | Benedicline Bay, Trimouille Is | PIO | Reef (low relief) | -0.8 | Coral reef (Acroporidae) medium | Shallow back reef area close to the shoreline; ~20% live hard coral cover; most dominant hard corals being tabulate acroporids; some encrusting/sub-massive poritids, favids and montiporids algal turf covered reef pavement with sand patches to the west | -20.40592 | 115.58159 | GPS | GDA94 | Direct | MBI/COR_006- 20061211 | | 11/12/2006 |
| MBIMPA | COR_007T1 | MBI_0226 | Southern end of West Reef | PIO | Reef (high relief) | -3.4 | Soft corals (Alcyoniidae) sparse | A narrow patchy band (5-15 m) of live hard coral fringing a major reef opening and deep (>5 m) channel; ~10% live coral cover with the major hard corals being massive <i>Platygyra</i> spp., and branching acroporids; ~10% soft corals mainly <i>Sinularia</i> spp. And <i>Sargassum</i> sp. Macroalgae present | -20.45272 | 115.47837 | GPS | GDA94 | Direct | MBI/COR_007- 20061211 | | 11/12/2006 |
| MBIMPA | COR_007T1 | MBI_0227 | Southern end of West Reef | | Reef (high relief) | -3.4 | Soft corals (Alcyoniidae) sparse | A narrow patchy band (5-15 m) of live hard coral fringing a major reef opening and deep (>5 m) channel; ~10% live coral cover with the major hard corals being massive <i>Platygyra</i> spp., and branching acroporids; ~10% soft corals mainly <i>Sinularia</i> spp. And <i>Sargassum</i> sp. Macroalgae present | -20.45294 | 115.47801 | GPS | GDA94 | Direct | MBI/COR_007- 20061211 | | 11/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|---------------------------|-----------|-----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| | COR_007T2 | | of West Reef | | Reef (high relief) | -3.4 | Soft corals (Alcyoniidae) sparse | A narrow patchy band (5-15 m) of live hard coral fringing a major reef opening and deep (>5 m) channel; ~10% live coral cover with the major hard corals being massive <i>Platygyra</i> spp., and branching acroporids; ~10% soft corals mainly <i>Sinularia</i> spp. And <i>Sargassum</i> sp. Macroalgae present | | 115.47898 | | GDA94 | Direct | MBI/COR_007- 20061211 | | 11/12/2006 |
| MBIMPA | COR_007T2 | MBI_0229 | Southern end of West Reef | PIO | Reef (high relief) | -3.4 | Soft corals (Alcyoniidae) sparse | A narrow patchy band (5-15 m) of live hard coral fringing a major reef opening and deep (>5 m) channel; ~10% live coral cover with the major hard corals being massive <i>Platygyra</i> spp., and branching acroporids; ~10% soft corals mainly <i>Sinularia</i> spp. And <i>Sargassum</i> sp. Macroalgae present | | 115.47854 | | GDA94 | Direct | MBI/COR_007- 20061211 | | 11/12/2006 |
| | _ | | Southern end of West Reef | | Reef (high relief) | -3.4 | Soft corals (Alcyoniidae) sparse | A narrow patchy band (5-15 m) of live hard coral fringing a major reef opening and deep (>5 m) channel; ~10% live coral cover with the major hard corals being massive <i>Platygyra</i> spp., and branching acroporids; ~10% soft corals mainly <i>Sinularia</i> spp. And <i>Sargassum</i> sp. Macroalgae present | | 115.47971 | GPS | GDA94 | Direct | MBI/COR_007- 20061211 | | 11/12/2006 |
| MBIMPA | COR_007T3 | MBI_0231 | Southern end of West Reef | PIO | Reef (high relief) | -3.4 | Soft corals (Alcyoniidae) sparse | A narrow patchy band (5-15 m) of live hard coral fringing a major reef opening and deep (>5 m) channel; ~10% live coral cover with the major hard corals being massive <i>Platygyra</i> spp., and branching acroporids; ~10% soft corals mainly <i>Sinularia</i> spp. And <i>Sargassum</i> sp. Macroalgae present | | 115.47931 | GPS | GDA94 | Direct | MBI/COR_007- 20061211 | | 11/12/2006 |
| MBIMPA | COR_008T1 | MBI_0232 | Stephenson Channel | PIO | Reef (high relief) | -3.0 | Coral reef (Acroporidae) medium | A narrow (10-15 m) strip of fringing coral reef next to a deep channel; ~30% live hard coral cover; dominant coral was an arborescent acroporid; other hard corals included massive poritids and foliose montiprids and echinoporids; algal turf covered the reef pavement; | -20.46594 | 115.54676 | GPS | GDA94 | Direct | MBI/COR_008- 20061211 | | 11/12/2006 |
| MBIMPA | COR_008T1 | MBI_0233 | Stephenson Channel | PIO | Reef (high relief) | -3.0 | Coral reef (Acroporidae) medium | A narrow (10-15 m) strip of fringing coral reef next to a deep channel; ~30% live hard coral cover; dominant coral was an arborescent acroporid; other hard corals included massive poritids and foliose montiprids and echinoporids; algal turf covered the reef pavement; | -20.46634 | 115.54697 | GPS | GDA94 | Direct | MBI/COR_008- 20061211 | | 11/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-----------------------|-----------|-----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| MBIMPA | COR_008T2 | MBI_0234 | Stephenson Channel | PIO | Reef (high relief) | -3.0 | Coral reef (Acroporidae) medium | A narrow (10-15 m) strip of fringing coral reef next to a deep channel; ~30% live hard coral cover; dominant coral was an arborescent acroporid; other hard corals included massive poritids and foliose montiprids and echinoporids; algal turf covered the reef pavement; | -20.46636 | 115.54700 | GPS | GDA94 | Direct | MBI/COR_008- 20061211 | | 11/12/2006 |
| | COR_008T2 | | Channel | PIO | Reef (high relief) | -3.0 | Coral reef (Acroporidae) medium | A narrow (10-15 m) strip of fringing coral reef next to a deep channel; ~30% live hard coral cover; dominant coral was an arborescent acroporid; other hard corals included massive poritids and foliose montiprids and echinoporids; algal turf covered the reef pavement; | | 115.54710 | GPS | GDA94 | Direct | MBI/COR_008- 20061211 | | 11/12/2006 |
| | COR_008T3 | | Channel | | Reef (high relief) | -3.0 | Coral reef (Acroporidae) medium | A narrow (10-15 m) strip of fringing coral reef next to a deep channel; ~30% live hard coral cover; dominant coral was an arborescent acroporid; other hard corals included massive poritids and foliose montiprids and echinoporids; algal turf covered the reef pavement; | | 115.54725 | GPS | GDA94 | Direct | MBI/COR_008- 20061211 | | 11/12/2006 |
| MBIMPA | COR_008T3 | MBI_0237 | Stephenson Channel | PIO | Reef (high relief) | -3.0 | Coral reef (Acroporidae) medium | A narrow (10-15 m) strip of fringing coral reef next to a deep channel; ~30% live hard coral cover; dominant coral was an arborescent acroporid; other hard corals included massive poritids and foliose montiprids and echinoporids; algal turf covered the reef pavement; | -20.46752 | 115.54723 | GPS | GDA94 | Direct | MBI/COR_008- 20061211 | | 11/12/2006 |
| MBIMPA | Z_007 | MBI_0238 | Bunsen Channel | PIO | Reef (low relief) | -2.0 | Filter feeders (sponges) | Filter feeding communities, seawhips and sponges | -20.39051 | 115.54307 | GPS | GDA94 | Direct | No Video | KBA | 11/12/2006 |
| MBIMPA | Z_008 | MBI_0239 | | PIO | Reef (low relief) | -2.5 | Soft corals (Alcyoniidae) medium | 30-40% soft coral (Sinularia) | -20.39051 | 115.54307 | GPS | GDA94 | Direct | No Video | KBA | 11/12/2006 |
| MBIMPA | Z_009 | MBI_0240 | | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) medium | Macroalgae (Sargassum), sand and sponges | -20.41854 | 115.55289 | GPS | GDA94 | Direct | No Video | KBA | 11/12/2006 |
| MBIMPA | D_001 | MBI_0241 | | PIO | Reef (high relief) | -4.0 | Coral reef (Poritidae) sparse | Coral and rubble substrate, small bommies, lots of fish on one big bommie | -20.56668 | 115.57581 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | D_002 | MBI_0242 | Lowendal shelf | PIO | Reef (high relief) | -9.0 | Coral reef (Poritidae) | Sand/rubble substrate, lone bommie with diverse coral cover but low relief | -20.55836 | 115.57636 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | COR_009T1 | MBI_0243 | | PIO | Reef (low relief) | -2.8 | Coral reef (mixed) medium | Scattered corals within inter-island shallows; <20% live coral cover; major hard corals being massive portitids, encrusting motiporids and tabulate acroporids. ~10% sarcophyton spp. Soft corals present; turf algae covered reef pavement was the dominant substrate | | 115.60510 | GPS | GDA94 | Direct | MBI/COR_009- 20061212 | | 12/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------|-----------|----------------------|-------|-----------------------------------|---|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | COR_009T1 | | of Karangi Is | PIO | Reef (low relief) | -2.8 | Coral reef (mixed) medium | Scattered corals within inter-island shallows; <20% live coral cover; major hard corals being massive poritids, encrusting motiporids and tabulate acroporids. ~10% sarcophyton spp. Soft corals present; turf algae covered reef pavement was the dominant substrate | | 115.60513 | GPS | GDA94 | | MBI/COR_009- 20061212 | | 12/12/2006 |
| MBIMPA | COR_009T2 | MBI_0245 | Shoals south of Karangi Is | PIO | Reef (low relief) | -2.8 | Coral reef (mixed) medium | Scattered corals within inter-island shallows; <20% live coral cover; major hard corals being massive poritids, encrusting motiporids and tabulate acroporids. ~10% sarcophyton spp. Soft corals present; turf algae covered reef pavement was the dominant substrate | | 115.60556 | GPS | GDA94 | Direct | MBI/COR_009- 20061212 | | 12/12/2006 |
| MBIMPA | COR_009T2 | MBI_0246 | Shoals south of Karangi Is | PIO | Reef (low relief) | -2.8 | Coral reef (mixed) medium | Scattered corals within inter-island shallows; <20% live coral cover; major hard corals being massive poritids, encrusting motiporids and tabulate acroporids. ~10% sarcophyton spp. Soft corals present; turf algae covered reef pavement was the dominant substrate | | 115.60562 | GPS | GDA94 | Direct | MBI/COR_009- 20061212 | | 12/12/2006 |
| MBIMPA | COR_009T3 | MBI_0247 | Shoals south of Karangi Is | PIO | Reef (low relief) | -2.8 | Coral reef (mixed) medium | Scattered corals within inter-island shallows; <20% live coral cover; major hard corals being massive poritids, encrusting motiporids and tabulate acroporids. ~10% sarcophyton spp. Soft corals present; turf algae covered reef pavement was the dominant substrate | | 115.60600 | GPS | GDA94 | Direct | MBI/COR_009- 20061212 | | 12/12/2006 |
| MBIMPA | COR_009T3 | MBI_0248 | Shoals south of Karangi Is | PIO | Reef (low relief) | -2.8 | Coral reef (mixed) medium | Scattered corals within inter-island shallows; <20% live coral cover; major hard corals being massive poritids, encrusting motiporids and tabulate acroporids. ~10% sarcophyton spp. Soft corals present; turf algae covered reef pavement was the dominant substrate | | 115.60594 | GPS | GDA94 | Direct | MBI/COR_009- 20061212 | | 12/12/2006 |
| MBIMPA | X_001 | MBI_0249 | West Reef (South) | | Reef (low relief) | -1.0 | Reef/turf algae | Some algae and sand | -20.47503 | 115.47524 | GPS | GDA94 | | No Video | KBA | 12/12/2006 |
| | _ | | West Reef (South) | | Reef (low relief) | | Reef/turf algae | Pavement with algae turf, sea urchins and some corals | | 115.47287 | | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| | | | West Reef (South) | | Reef (low relief) | | Reef/turf algae | Halimeda and turf algae, some soft and hard corals | | | | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| | | | West Reef (South) | | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Sand on pavement with macroalgal tufts | -20.45065 | | | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| | | | West Reef (South) | | Reef (low relief) | | Reef/turf algae | Red turf algae and halimeda, some hard and some soft corals | | | | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_006 | MBI_0254 | West Reef (South) | PIO | Reef (low relief) | -10.0 | Macroalgae (Phaeophyta) sparse | Sand on pavement, macroalgae | -20.45086 | 115.46492 | GPS | GDA94 | | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|---------------------------|-----------------------------|----------|------------|
| MBIMPA | X_007 | MBI_0255 | West Reef (South) | | Reef (low relief) | -15.7 | Macroalgae (Phaeophyta) sparse | Macroalgae on sand pavement, some soft corals/sponges/octocorals and sea urchins, mainly bare | -20.45078 | 115.46027 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_008 | MBI_0256 | West Reef (South) | PIO | Sand | -25.6 | Sand | Coarse sediment, shell grit/rubble | -20.44138 | 115.46330 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_009 | MBI_0257 | West Reef (South) | | Reef (low relief) | | Filter feeders (seawhips) | Seawhips, algae tufts and sponges | -20.44236 | 115.46407 | GPS | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_010 | MBI_0258 | (South) | | Reef (low relief) | -13.7 | Macroalgae (Phaeophyta) sparse | Macroalgae on pavement | -20.44365 | | | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_011 | MBI_0259 | West Reef (South) | PIO | Reef (low relief) | -10.4 | Macroalgae (Phaeophyta) dense | Sand on pavement, macroalgae dominated | -20.44519 | 115.46858 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_012 | MBI_0260 | West Reef (South) | PIO | Reef (low relief) | -9.2 | Reef/turf algae | Turf covered with some soft/hard corals, rubble in between at depth -5m more soft coral | -20.44580 | 115.47024 | GPS | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_013 | MBI_0261 | West Reef (South) | PIO | Reef (low relief) | -3.5 | Reef/turf algae | Soft corals, algal turf covered reef | -20.44006 | 115.47908 | GPS | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| | X_014 | MBI_0262 | West Reef (South) | PIO | Reef (low relief) | -6.7 | Reef/turf algae | Coarse sand, some algal turf, sand on pavement | -20.43964 | 115.47780 | GPS | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_015 | MBI_0263 | West Reef (South) | PIO | Reef (low relief) | -10.4 | Macroalgae (Phaeophyta) sparse | Macroalgae on sand inundated pavement | -20.43778 | 115.47258 | GPS | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_016 | MBI_0264 | West Reef (South) | | Reef (low relief) | -16.4 | Macroalgae (Phaeophyta) sparse | Macroalgae on sand inundated pavement | -20.43614 | | | GDA94 | video | 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_017 | _ | West Reef (South) | | Sand | -14.6 | Sand | Sand ripples, coarse sand | -20.42679 | 115.47453 | GPS | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_018 | MBI_0266 | West Reef (South) | PIO | Reef (low relief) | -8.2 | Soft corals (Alcyoniidae) medium | Some macroalgae, some turf algae, soft corals on reef, 50% soft coral, >10% hard coral, about 30% bare | -20.42740 | 115.47643 | GPS | GDA94 | | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_019 | MBI_0267 | West Reef (South) | PIO | Reef (low relief) | -8.5 | Soft corals (Alcyoniidae) medium | Transect beginning at X-018 | -20.42774 | 115.47666 | GPS | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_020 | MBI_0268 | West Reef (South) | PIO | Reef (low relief) | -9.0 | Macroalgae (Phaeophyta) dense | Dense macroalgae on pavement | -20.42831 | 115.47912 | GPS | GDA94 | video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| | X_021 | _ | West Reef (South) | | Sand | -10.0 | Sand | Sand with some macroalgae growth, shell grit.coarse, ripples, must be deep sand as no macroalgae growth | -20.42869 | 115.48112 | GPS | GDA94 | video | 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_022 | MBI_0270 | West Reef (South) | PIO | Reef (low relief) | | Reef/turf algae | Some rubble, mainly bare, high profile reef and turf algae, some hard/soft corals, sea urchins | -20.42887 | 115.48178 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#06- 20061212 | KBA | 12/12/2006 |
| MBIMPA | X_023 | MBI_0271 | West Reef (South) | PIO | Reef (high relief) | -1.0 | Coral reef (Poritidae) sparse | Coral <i>Porites</i> bommies, lots of fish and crays | -20.42482 | 115.48952 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_024 | MBI_0272 | West Reef (South) | PIO | Reef (low relief) | -1.0 | Macroalgae (Phaeophyta) sparse | Macroalgae on pavement and rubble, lots of green turtles | -20.42692 | 115.48995 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_025 | MBI_0273 | West Reef (South) | PIO | Reef (low relief) | -1.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.42896 | 115.48691 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_026 | MBI_0274 | West Reef (South) | PIO | Reef (low relief) | -1.0 | Coral reef (Acroporidae) sparse | Some acroporid corals, back reef | -20.42863 | 115.48381 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | X_027 | MBI_0275 | West Reef (South) | PIO | Reef (high relief) | -1.0 | Coral reef (Poritidae) sparse | Coral bommies | -20.42880 | 115.48467 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_028 | MBI_0276 | West Reef (South) | PIO | Reef (low relief) | -1.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.42989 | 115.49042 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_029 | MBI_0277 | Brooke Island | PIO | Reef (low relief) | -1.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.43221 | 115.50058 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_030 | MBI_0278 | Brooke Island | PIO | Reef (high relief) | -1.0 | Coral reef (Poritidae) medium | String of bommies | -20.43014 | 115.50365 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_031 | MBI_0279 | Brooke Island | PIO | Reef (high | | Coral reef (Poritidae) medium | Coral bommies | -20.42990 | 115.50401 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_032 | MBI_0280 | Brooke Island | PIO | Reef (high relief) | | Coral reef (Poritidae) medium | Coral bommies | -20.42986 | 115.50547 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_033 | MBI_0281 | Brooke Island | PIO | Reef (high relief) | -1.0 | Coral reef (Poritidae) sparse | Coral bommies with Acropora plates etc | -20.42861 | 115.50589 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_034 | MBI_0282 | Brooke Island | PIO | Reef (low relief) | -1.0 | Reef/turf algae | Old coral rubble macroalgae covered | -20.42919 | 115.50703 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | X_035 | MBI_0283 | Brooke Island | PIO | Reef (low relief) | -1.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.43104 | 115.50769 | GPS | GDA94 | Direct | No Video | KBA | 12/12/2006 |
| MBIMPA | Y_001 | MBI_0284 | Flag Island | PIO | Reef (low relief) | -9.0 | Macroalgae (Phaeophyta) dense | Dense short macroalgae, small sand patches | -20.45110 | 115.58510 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#05- 20061212 | SLO | 12/12/2006 |
| MBIMPA | Y_002 | MBI_0285 | Whale Rock | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, occasional encrusting thing like a sponge | -20.45500 | 115.59420 | GPS | GDA94 | | MSP/MBI/DDV#05- 20061212 | SLO | 12/12/2006 |
| MBIMPA | Y_003 | MBI_0286 | Whale Rock | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.44770 | 115.60670 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_004 | MBI_0287 | Whale Rock | PIO | Reef (low relief) | -4.0 | Soft corals (Alcyoniidae) sparse | Sparse soft coral, stinging hydroids, barren payement, low relief | -20.44870 | 115.60810 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_005 | MBI_0288 | Whale Rock | PIO | Reef (low relief) | -3.0 | Soft corals (Alcyoniidae) sparse | Pavement, soft corals occasionally, the odd tridacnid | -20.44962 | 115.60782 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_006 | MBI_0289 | Whale Rock | PIO | Reef (low relief) | -2.0 | Reef/turf algae | Turf algae | -20.45160 | 115.60786 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_007 | MBI_0290 | Whale Rock | PIO | Reef (low relief) | -2.0 | Reef/turf algae | Turf algae | -20.45269 | 115.60781 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0291 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.45083 | 115.60691 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0292 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.45131 | 115.60754 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0293 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.45143 | 115.60725 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0294 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.45171 | 115.60657 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0295 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.45188 | 115.60622 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | Y_008 | MBI_0296 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.45207 | 115.60545 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0297 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.45209 | 115.60538 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0298 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.45172 | 115.60445 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0299 | Whale Rock | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.44991 | 115.60477 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_008 | MBI_0300 | Whale Rock | PIO | / | -2.0 | Soft corals (Alcyoniidae) sparse | Scattered hard and soft coral | -20.44957 | 115.60549 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_009 | MBI_0301 | Whale Rock | PIO | Reef (low relief) | -7.0 | Macroalgae (Phaeophyta) dense | Dense macroalgae | -20.46490 | 115.60360 | GPS | GDA94 | video | MSP/MBI/DDV#05- 20061212 | SLO | 12/12/2006 |
| MBIMPA | Y_010 | MBI_0302 | Whale Rock | PIO | Reef (low relief) | -7.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, occasional soft coral (very occasional) | -20.46290 | 115.59910 | GPS | GDA94 | | MSP/MBI/DDV#05- 20061212 | SLO | 12/12/2006 |
| MBIMPA | Y_011 | MBI_0303 | Flag Island | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.46119 | 115.58249 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_012 | MBI_0304 | Flag Island | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.45766 | 115.58166 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_013 | MBI_0305 | Flag Island | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.45587 | 115.58159 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_014 | MBI_0306 | Flag Island | PIO | Reef (high relief) | -4.0 | Coral reef (Poritidae) | Couple of bommies, inside island, pretty scattered | -20.45636 | 115.57963 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_014 | MBI_0307 | Flag Island | PIO | Reef (high relief) | | Coral reef (Poritidae) | Couple of bommies, inside island, pretty scattered | -20.45648 | 115.57869 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_014 | MBI_0308 | Flag Island | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.45729 | 115.57796 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_015 | MBI_0309 | Flag Island | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, sand | -20.45481 | 115.57052 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_016 | MBI_0310 | Flag Island | PIO | / | | Macroalgae (Phaeophyta) sparse | Macroalgae with one solitary bommie | -20.45329 | 115.56455 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_017 | MBI_0311 | Stout Bay | PIO | Reef (high relief) | -3.0 | Coral reef (Poritidae) | Two lonely bommies | -20.46329 | 115.55109 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_018 | MBI_0312 | Whiskey Bay | PIO | , | -3.0 | Coral reef (Poritidae) | Scattered bommies | -20.47061 | 115.54713 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |
| MBIMPA | Y_019 | MBI_0313 | Whiskey Bay | PIO | , | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae/sand | -20.47669 | 115.54827 | GPS | GDA94 | Direct | No Video | SLO | 12/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|---------------------|-----------|-----------------------|-------|------------------------------|---|---------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| MBIMPA | COR_010T1 | MBI_0314 | Ah Chong Channel | PIO | Reef (high relief) | -4.6 | Coral reef (mixed) medium | Scattered coral patch along a deep channel between the Island and shallow shelf area; live coral hard cover ~30%; major hard corals being massives such as <i>Porites, Platygyra</i> and <i>Goniastrea</i> , and encrusting <i>Turbinaria</i> ; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.54332 | GPS | GDA94 | Direct | MBI/COR_010- 20061213 | | 13/12/2006 |
| MBIMPA | COR_010T1 | MBI_0315 | Ah Chong Channel | PIO | Reef (high relief) | -4.6 | Coral reef (mixed) medium | Scattered coral patch along a deep channel between the Island and shallow shelf area; live coral hard cover ~30%; major hard corals being massives such as <i>Porites, Platygyra</i> and <i>Goniastrea</i> , and encrusting <i>Turbinaria</i> ; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.54308 | GPS | GDA94 | Direct | MBI/COR_010- 20061213 | | 13/12/2006 |
| MBIMPA | COR_010T2 | MBI_0316 | Ah Chong Channel | PIO | Reef (high relief) | -4.6 | Coral reef (mixed) medium | Scattered coral patch along a deep channel between the Island and shallow shelf area; live coral hard cover ~30%; major hard corals being massives such as <i>Porites, Platygyra</i> and <i>Goniastrea</i> , and encrusting <i>Turbinaria</i> ; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.54358 | GPS | GDA94 | Direct | MBI/COR_010- 20061213 | | 13/12/2006 |
| MBIMPA | COR_010T2 | MBI_0317 | Ah Chong Channel | PIO | Reef (high relief) | -4.6 | Coral reef (mixed) medium | Scattered coral patch along a deep channel between the Island and shallow shelf area; live coral hard cover ~30%; major hard corals being massives such as <i>Porites, Platygyra</i> and <i>Goniastrea</i> , and encrusting <i>Turbinaria</i> ; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.54347 | GPS | GDA94 | Direct | MBI/COR_010- 20061213 | | 13/12/2006 |
| MBIMPA | COR_010T3 | MBI_0318 | Ah Chong Channel | PIO | Reef (high relief) | -4.6 | Coral reef (mixed) medium | Scattered coral patch along a deep channel between the Island and shallow shelf area; live coral hard cover ~30%; major hard corals being massives such as <i>Porites, Platygyra</i> and <i>Goniastrea</i> , and encrusting <i>Turbinaria</i> ; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.54412 | GPS | GDA94 | Direct | MBI/COR_010- 20061213 | | 13/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|--------------|----------|----------------------------|-----------|-----------------------|-------|-----------------------------------|--|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| MBIMPA | COR_010T3 | MBI_0319 | Ah Chong Channel | | Reef (high relief) | -4.6 | Coral reef (mixed) medium | Scattered coral patch along a deep channel between the Island and shallow shelf area; live coral hard cover ~30%; major hard corals being massives such as <i>Porites, Platygyra</i> and <i>Goniastrea,</i> and encrusting <i>Turbinaria</i> ; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.54386 | GPS | GDA94 | Direct | MBI/COR_010- 20061213 | | 13/12/2006 |
| | COR_011B1 | | Chong Is | | Reef (high relief) | -7.1 | Coral reef (Poritidae) medium | A substantial area of coral reef off the interisland shelf; 40% live hard coral cover; major hard corals were massive and arborescent poritids, and encrusting <i>Favites</i> spp. And <i>Galaxea</i> spp.; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.56477 | GPS | GDA94 | Direct | MBI/COR_011- 20061213 | | 13/12/2006 |
| MBIMPA | COR_011B2 | | Chong Is | | Reef (high relief) | -7.1 | Coral reef (Poritidae) medium | A substantial area of coral reef off the interisland shelf; 40% live hard coral cover; major hard corals were massive and arborescent poritids, and encrusting <i>Favites</i> spp. And <i>Galaxea</i> spp.; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.56451 | GPS | GDA94 | Direct | MBI/COR_011- 20061213 | | 13/12/2006 |
| MBIMPA | D_003 | MBI_0322 | Lowendal shelf | PIO | Reef (high relief) | -4.0 | Coral reef (Poritidae) sparse | Cluster of misshapen bommies with lots of fish and large areas of bare substrate/turf | -20.55971 | 115.57142 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | D_004 | MBI_0323 | Lowendal shelf | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Macroalgae and sand | -20.56270 | 115.56270 | | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | D_005 | MBI_0324 | Lowendal shelf | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Macroalgae and sand patches | -20.55007 | 115.56427 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | D_006 | MBI_0325 | Lowendal shelf | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Sand/pavement and macroalgae | -20.53682 | 115.55269 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | D_007 | MBI_0326 | Lowendal shelf | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) dense | Dense macroalgae on sand/rubble | -20.53135 | 115.55079 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | Lipid Col_01 | MBI_0327 | | PIO | Reef (low relief) | | Coral reef (mixed) | Low coral cover mixed | -20.46790 | 115.54732 | GPS | GDA94 | Direct | No Video | | 13/12/2006 |
| MBIMPA | | MBI_0328 | South Lowendal Shelf | | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Rubble, sand, macroalgae, occasional soft coral | -20.74459 | 115.56133 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | R_006 | MBI_0329 | South Lowendal Shelf | PIO | Reef (low relief) | -5.5 | Macroalgae (Phaeophyta) sparse | Macroalgae, sand, rubble patches, low relief and occasional soft coral | -20.74882 | 115.56288 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | R_008 | MBI_0330 | | PIO | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) sparse | Sand, rubble, macroalgae, low relief rocks | -20.75347 | 115.55984 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------|-----------|----------------------|-------|-----------------------------------|---|-----------|-----------|----------|-------|---------------------------|----------------------|----------|------------|
| MBIMPA | R_010 | MBI_0331 | South Lowendal Shelf | PIO | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, rubble, rocks, occasional small coral, sand | -20.75555 | 115.55915 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | R_011 | MBI_0332 | South Lowendal Shelf | PIO | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) sparse | Sand/rubble, macroalgae, scattered soft corals | -20.75821 | 115.55695 | GPS | GDA94 | Direct | No Video | SLO | 13/12/2006 |
| MBIMPA | W_001 | MBI_0333 | Ah Chong Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Scattered hard/soft corals | -20.52028 | 115.54602 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_002 | MBI_0334 | Ah Chong Island | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) medium | Macroalge on limestone pavement, quite lush in some areas | -20.51790 | 115.54419 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_003 | MBI_0335 | | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) | Nice corals, some Porites bommies | -20.51685 | 115.54193 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_004 | MBI_0336 | | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) sparse | Corals with scattered bommies Porites and plates, lots of fishlife/sharks | -20.51645 | 115.54120 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_005 | MBI_0337 | | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) sparse | Scattered small bommies about 1-2m in diameter | -20.50815 | 115.56113 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_006 | MBI_0338 | | PIO | Reef (high relief) | -5.0 | Coral reef (Poritidae) sparse | 50x30m coral bommies | -20.50843 | 115.56860 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_007 | MBI_0339 | Ah Chong Island | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Coral bommies with <i>Acropora</i> etc In between, loads of fish | -20.50661 | 115.56491 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_008 | MBI_0340 | | PIO | Reef (high relief) | -10.0 | Coral reef (Poritidae) sparse | Coral bommies | -20.50715 | 115.56378 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_009 | MBI_0341 | Ah Chong Island | PIO | Reef (high relief) | -8.0 | Coral reef (Poritidae) sparse | Coral bommies | -20.50799 | 115.56565 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_010 | MBI_0342 | | PIO | Reef (high relief) | -8.0 | Coral reef (Poritidae) sparse | Coral bommies, only a few small ones | -20.50851 | 115.56529 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_011 | MBI_0343 | | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) dense | About 50% macroalgae | -20.50941 | 115.56499 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_012 | MBI_0344 | | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) dense | About 70% macroalgae on limestone pavement | -20.51835 | 115.56072 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_013 | MBI_0345 | | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) dense | About 50% macroalgae on limestone pavement | -20.52678 | 115.55531 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_014 | MBI_0346 | | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) medium | About 20% macroalgae on limestone pavement, sand vaneer | -20.53156 | 115.55178 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_015 | MBI_0347 | | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) medium | About 20% macroalgae on limestone payement, sand vaneer | -20.53568 | 115.54373 | GPS | GDA94 | Direct | No Video | | 13/12/2006 |
| MBIMPA | W_020 | MBI_0348 | | PIO | Reef (low relief) | -1.0 | Macroalgae (Phaeophyta) dense | About 40-60% macroalgae cover | -20.52118 | 115.55569 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |
| MBIMPA | W_021 | MBI_0349 | | PIO | Reef (high relief) | -4.0 | Coral reef (Poritidae) sparse | Coral bommies | -20.50760 | 115.56519 | GPS | GDA94 | Direct | No Video | KBA | 13/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------|-----------|-----------------------|-------|----------------------------------|---|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| | COR_011T1 | | Chong Is | | Reef (high relief) | -7.1 | Coral reef (Poritidae) medium | A substantial area of coral reef off the interisland shelf; 40% live hard coral cover; major hard corals were massive and arborescent poritids, and encrusting <i>Favites</i> spp. And <i>Galaxea</i> spp.; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | -20.50663 | | | GDA94 | Direct | MBI/COR_011- 20061214 | | 13/12/2006 |
| MBIMPA | COR_011T1 | MBI_0351 | West of Ah Chong Is | PIO | Reef (high relief) | -7.1 | Coral reef (Poritidae) medium | A substantial area of coral reef off the interisland shelf; 40% live hard coral cover; major hard corals were massive and arborescent poritids, and encrusting <i>Favites</i> spp. And <i>Galaxea</i> spp.; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | -20.50620 | 115.56479 | GPS | GDA94 | Direct | MBI/COR_011- 20061214 | | 13/12/2006 |
| MBIMPA | COR_011T2 | MBI_0352 | West of Ah Chong Is | PIO | Reef (high relief) | -7.1 | Coral reef (Poritidae) medium | A substantial area of coral reef off the interisland shelf; 40% live hard coral cover; major hard corals were massive and arborescent poritids, and encrusting <i>Favites</i> spp. And <i>Galaxea</i> spp.; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.56454 | GPS | GDA94 | Direct | MBI/COR_011- 20061214 | | 14/12/2006 |
| MBIMPA | COR_011T2 | MBI_0353 | West of Ah Chong Is | PIO | Reef (high relief) | -7.1 | Coral reef (Poritidae) medium | A substantial area of coral reef off the interisland shelf; 40% live hard coral cover; major hard corals were massive and arborescent poritids, and encrusting <i>Favites</i> spp. And <i>Galaxea</i> spp.; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.56456 | GPS | GDA94 | Direct | MBI/COR_011- 20061214 | | 14/12/2006 |
| MBIMPA | COR_011T3 | MBI_0354 | West of Ah Chong Is | PIO | Reef (high relief) | -7.1 | Coral reef (Poritidae) medium | A substantial area of coral reef off the interisland shelf; 40% live hard coral cover; major hard corals were massive and arborescent poritids, and encrusting <i>Favites</i> spp. And <i>Galaxea</i> spp.; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | | 115.56437 | GPS | GDA94 | Direct | MBI/COR_011- 20061214 | | 14/12/2006 |
| MBIMPA | COR_011T3 | MBI_0355 | West of Ah Chong Is | PIO | Reef (high relief) | -7.1 | Coral reef (Poritidae) medium | A substantial area of coral reef off the interisland shelf; 40% live hard coral cover; major hard corals were massive and arborescent poritids, and encrusting <i>Favites</i> spp. And <i>Galaxea</i> spp.; relatively deep site; sheltered from long-period swells and moderate exposure to cyclonic waves | -20.50584 | 115.56437 | GPS | GDA94 | Direct | MBI/COR_011- 20061214 | | 14/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------------------|-----------|-----------------------|-------|----------------------------------|---|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| | COR_012T1 | _ | east of Black Rk | | Reef (high relief) | -7.0 | Coral reef (Poritidae) medium | A substantial area of coral reef east of the Montebello/Lowendal inter-island shelf; high live hard coral cover ~50%; major hard corals were massive poritids, and arborescent and tabulate acroporids; other benthos included <i>Sarcophyton</i> spp. Soft coral; turf algae | -20.55498 | 115.57309 | GPS | GDA94 | Direct | MBI/COR_012- 20061214 | | 14/12/2006 |
| | COR_012T1 | | east of Black Rk | | Reef (high relief) | | Coral reef (Poritidae) medium | A substantial area of coral reef east of the Montebello/Lowendal inter-island shelf; high live hard coral cover ~50%; major hard corals were massive poritids, and arborescent and tabulate acroporids; other benthos included Sarcophyton spp. Soft coral; turf algae | | 115.57270 | GPS | GDA94 | Direct | MBI/COR_012- 20061214 | | 14/12/2006 |
| | COR_012T2 | | east of Black Rk | | Reef (high relief) | -7.0 | Coral reef (Poritidae) medium | A substantial area of coral reef east of the Montebello/Lowendal inter-island shelf; high live hard coral cover ~50%; major hard corals were massive poritids, and arborescent and tabulate acroporids; other benthos included <i>Sarcophyton</i> spp. Soft coral; turf algae | | 115.57240 | GPS | GDA94 | Direct | MBI/COR_012- 20061214 | | 14/12/2006 |
| MBIMPA | COR_012T2 | MBI_0359 | Shelf slope east of Black Rk | PIO | Reef (high relief) | -7.0 | Coral reef (Poritidae) medium | A substantial area of coral reef east of the Montebello/Lowendal inter-island shelf; high live hard coral cover ~50%; major hard corals were massive poritids, and arborescent and tabulate acroporids; other benthos included <i>Sarcophyton</i> spp. Soft coral; turf algae | | 115.57201 | GPS | GDA94 | Direct | MBI/COR_012- 20061214 | | 14/12/2006 |
| MBIMPA | COR_012T3 | MBI_0360 | Shelf slope east of Black Rk | PIO | Reef (high relief) | -7.0 | Coral reef (Poritidae) medium | A substantial area of coral reef east of the Montebello/Lowendal inter-island shelf; high live hard coral cover ~50%; major hard corals were massive poritids, and arborescent and tabulate acroporids; other benthos included Sarcophyton spp. Soft coral; turf algae | | 115.57198 | GPS | GDA94 | Direct | MBI/COR_012- 20061214 | | 14/12/2006 |
| MBIMPA | COR_012T3 | MBI_0361 | Shelf slope east of Black Rk | | Reef (high relief) | -7.0 | Coral reef (Poritidae) medium | A substantial area of coral reef east of the Montebello/Lowendal inter-island shelf; high live hard coral cover ~50%; major hard corals were massive poritids, and arborescent and tabulate acroporids; other benthos included <i>Sarcophyton</i> spp. Soft coral; turf algae | | 115.57152 | GPS | GDA94 | Direct | MBI/COR_012- 20061214 | | 14/12/2006 |
| | _ | _ | Black Rock | | Reef (high relief) | | Coral reef (Poritidae) sparse | Coral bommies, depth -5.5m | | 115.57175 | | | Direct | No Video | | 14/12/2006 |
| | - | | Black Rock | PIO | Reef (high relief) | -5.0 | Coral reef (Poritidae) sparse | Coral bommies, depth -5m | | 115.57148 | | | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | - | | Black Rock | | Reef (high relief) | | Coral reef (Poritidae) sparse | Coral bommies, broken ground | | 115.57185 | | | Direct | No Video | | 14/12/2006 |
| MBIMPA | V_004 | MBI_0365 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Some bommies, broken ground | -20.55582 | 115.57208 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------|-----------|----------------------|-------|-------------------------------------|--|-----------|-----------|----------|-------|-----------------------|----------------------|----------|------------|
| MBIMPA | V_005 | MBI_0366 | Black Rock | | Reef (high relief) | | Coral reef (Poritidae) sparse | Good connected coral bommies | -20.55524 | 115.57221 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_006 | | Black Rock | | Reef (high relief) | | Coral reef (Poritidae) sparse | End of bommies | -20.55493 | 115.57249 | | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| | V_007 | | Black Rock | | Reef (high relief) | | Coral reef (Poritidae) sparse | Porites coral bommies | -20.55802 | | | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_008 | | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Porites coral bommies | | 115.57134 | | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_009 | MBI_0370 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Broken and rubble, mixed hard and soft corals | -20.55814 | 115.57188 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_010 | MBI_0371 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Porites coral bommies | -20.55634 | 115.57453 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_011 | MBI_0372 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) | Coral bommies with sand patches | -20.55674 | 115.57425 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_012 | MBI_0373 | Black Rock | PIO | Reef (low relief) | | Soft corals (Alcyoniidae) sparse | Rubble, bare reef with soft and hard corals, Porites | -20.55986 | 115.57723 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_013 | MBI_0374 | Black Rock | PIO | Reef (low relief) | | Soft corals (Alcyoniidae) sparse | Soft corals, small <i>Porites</i> bommies, <i>Acropora</i> plates, sand, rubble | -20.56106 | 115.57775 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_014 | MBI_0375 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) | Coral bommies, isolated bommie | -20.56107 | 115.57814 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_015 | MBI_0376 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) medium | Bommie cluster | -20.56131 | 115.57795 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_016 | MBI_0377 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) | Bommie cluster | -20.56174 | 115.57807 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_017 | MBI_0378 | Black Rock | PIO | Reef (high relief) | -5.0 | Coral reef (Poritidae) | Bommie cluster, isolated bommies | -20.56239 | 115.57712 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_018 | MBI_0379 | Black Rock | PIO | Reef (high relief) | -5.0 | Coral reef (mixed) | Rubble, some coral, depth -5m | -20.56274 | 115.57764 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_019 | MBI_0380 | Black Rock | PIO | Reef (high relief) | | Coral reef (mixed) sparse | Rubble, mixture of corals, plate Acropora | -20.56327 | 115.57809 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_020 | MBI_0381 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Isolated <i>Porites</i> bommies, dead side, mixture of corals | -20.56402 | 115.57711 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_021 | MBI_0382 | Black Rock | PIO | Reef (high relief) | | Coral reef (mixed) sparse | Fire coral, recruits, dead lump | -20.56426 | 115.57715 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_022 | MBI_0383 | Black Rock | PIO | Reef (high relief) | | Coral reef (Acroporidae) sparse | Plate Acropora, Porites, 2 bommies together | -20.56428 | 115.57645 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_023 | MBI_0384 | Black Rock | PIO | Reef (high relief) | | Coral reef (Acroporidae) sparse | Rubbly bottom with 3 bommie clusters, soft corals, <i>Acropora</i> plates, <i>Porites</i> , isolated bommies | -20.56510 | 115.57569 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_024 | MBI_0385 | Black Rock | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Isolated bommies, Acropora plates, Porites | -20.56665 | 115.57588 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_025 | MBI_0386 | Black Rock | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | Macroalgae about 30-60% cover | -20.56294 | 115.56270 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------------------|-----------|-----------------------|-------|-----------------------------------|--|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| MBIMPA | _ | | Black Rock | | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Macroalgae, sparse cover | -20.55639 | 115.55806 | | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | V_027 | | Black Rock | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | About 50% macroalgae | -20.54906 | | | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | | | Black Rock | | Reef (low relief) | | Macroalgae (Phaeophyta) dense | Macroalgae about 70% | | 115.54737 | | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| | | | Black Rock | | Reef (low relief) | | Macroalgae (Phaeophyta) medium | About 40% macroalgae cover | | 115.54587 | GPS | GDA94 | Direct | No Video | KBA | 14/12/2006 |
| MBIMPA | COR_013B1 | MBI_0391 | Shelf slope east of Black Rk | PIO | Reef (high relief) | -5.9 | Coral reef (Poritidae) dense | This site was placed in the general area of the previous site; a substantial area of coral reef east off the Montebello/Lowendal inter-island shelf; three clusters of massive poritid bommies; high live coral cover of ~50%; other benthos included arborescent acroporid corals | | 115.57250 | GPS | GDA94 | Direct | MBI/COR_013- 20061215 | | 14/12/2006 |
| MBIMPA | COR_013B2 | MBI_0392 | Shelf slope east of Black Rk | PIO | Reef (high relief) | -5.9 | Coral reef (Poritidae) dense | This site was placed in the general area of the previous site; a substantial area of coral reef east off the Montebello/Lowendal inter-island shelf; three clusters of massive poritid bommies; high live coral cover of ~50%; other benthos included arborescent acroporid corals | | 115.57160 | GPS | GDA94 | Direct | MBI/COR_013- 20061215 | | 14/12/2006 |
| MBIMPA | COR_013B3 | MBI_0393 | Shelf slope east of Black Rk | PIO | Reef (high relief) | -5.9 | Coral reef (Poritidae) dense | This site was placed in the general area of the previous site; a substantial area of coral reef east off the Montebello/Lowendal inter-island shelf; three clusters of massive poritid bommies; high live coral cover of ~50%; other benthos included arborescent acroporid corals | | 115.57190 | GPS | GDA94 | Direct | MBI/COR_013- 20061215 | | 15/12/2006 |
| | COR_014B1 | | NE of Bridled Is | | Reef (high relief) | | Coral reef (Poritidae) dense | A substantial area of poritid bommies east off the Montebello/Lowendal inter-island shelf; three individual poritid bommies; high live coral cover ~60%; other hard corals present included arborescent and tabulate acroporids; other benthos included sponges | | 115.58313 | | GDA94 | Direct | MBI/COR_014- 20061215 | | 15/12/2006 |
| | COR_014B2 | | NE of Bridled Is | | Reef (high relief) | -6.1 | Coral reef (Poritidae) dense | A substantial area of poritid bommies east off the Montebello/Lowendal inter-island shelf; three individual poritid bommies; high live coral cover ~60%; other hard corals present included arborescent and tabulate acroporids; other benthos included sponges | | 115.58339 | | GDA94 | Direct | MBI/COR_014- 20061215 | | 15/12/2006 |
| MBIMPĀ | COR_014B3 | MBI_0396 | Shelf slope NE of Bridled Is | PIO | Reef (high relief) | -6.1 | Coral reef (Poritidae) dense | A substantial area of poritid bommies east off the Montebello/Lowendal inter-island shelf; three individual poritid bommies; high live coral cover ~60%; other hard corals present included arborescent and tabulate acroporids; other benthos included sponges | -20.62850 | 115.58259 | GPS | GDA94 | Direct | MBI/COR_014- 20061215 | | 15/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|--------------------------------|-----------|-----------------------|-------|----------------------------------|--|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| MBIMPA | COR_015B1 | | of Varanus Is | | Reef (high relief) | -5.9 | Coral reef (Poritidae) dense | A substantial area of poritid bommies off the Montebello/Lowendal inter-island shelf; three individual poritid bommies; high live coral cover ~50%; other hard corals present included arborescent and tabulate acroporids; other benthos included sponges; turf algae | -20.71888 | | | GDA94 | Direct | MBI/COR_015- 20061215 | | 15/12/2006 |
| | | | Shelf slope S of Varanus Is | | relief) | -5.9 | Coral reef (Poritidae) dense | A substantial area of poritid bommies off the Montebello/Lowendal inter-island shelf; three individual poritid bommies; high live coral cover ~50%; other hard corals present included arborescent and tabulate acroporids; other benthos included sponges; turf algae | -20.71887 | 115.57748 | GPS | GDA94 | Direct | MBI/COR_015- 20061215 | | 15/12/2006 |
| MBIMPA | COR_015B3 | MBI_0399 | Shelf slope S of Varanus Is | PIO | Reef (high relief) | -5.9 | Coral reef (Poritidae) dense | A substantial area of poritid bommies off the Montebello/Lowendal inter-island shelf; three individual poritid bommies; high live coral cover ~50%; other hard corals present included arborescent and tabulate acroporids; other benthos included sponges; turf algae | -20.71936 | 115.57805 | GPS | GDA94 | Direct | MBI/COR_015- 20061215 | | 15/12/2006 |
| MBIMPA | S_001 | MBI_0400 | Dugong Reef | PIO | Reef (high relief) | -8.0 | Coral reef (Poritidae) sparse | Hard coral patches on a <i>Porites</i> bommie is isolated but a bit dead on the top the sides seem alive though, broken up bommies | -20.71222 | 115.57544 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | S_002 | MBI_0401 | Dugong Reef | PIO | Reef (high relief) | -8.0 | Coral reef (Poritidae) medium | Bommie cluster, broken up bommies | -20.71357 | 115.57641 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | - | | Dugong Reef | | relief) | -8.0 | Coral reef (Poritidae) sparse | Isolated bommies <i>Porites</i> , mixture of corals including Acropora plates | | 115.57435 | | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| | | | Dugong Reef | | relief) | | Coral reef (Poritidae) sparse | Bommie isolated | -20.71338 | 115.57627 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | S_005 | MBI_0404 | Dugong Reef | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Isolated bommie <i>Porites</i> (small bommies) with mixture of corals | -20.71397 | 115.57411 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | S_006 | MBI_0405 | Dugong Reef | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Small patchy isolated bommie | -20.71387 | 115.57386 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | S_007 | MBI_0406 | Dugong Reef | PIO | Reef (high relief) | | Coral reef (Poritidae) | Isolated bommie patchy, <i>Porites</i> and mixture of corals | -20.71413 | 115.57415 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | S_008 | MBI_0407 | Dugong Reef | PIO | Reef (high relief) | | Coral reef (Poritidae) | Isolated bommie, <i>Porites</i> and mixture of corals | -20.71203 | 115.57469 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | S_009 | MBI_0408 | Dugong Reef | PIO | Reef (high relief) | | Coral reef (Poritidae) | Big Porites bommie with other corals, isolated | -20.71886 | 115.57639 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | S_010 | MBI_0409 | Dugong Reef | PIO | | | Coral reef (Poritidae) sparse | Porites bommie, isolated, big enough | -20.71883 | 115.57748 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | S_011 | MBI_0410 | Dugong Reef | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Isolated bommie | -20.71941 | 115.57804 | GPS | GDA94 | Direct | No Video | SAR | 15/12/2006 |
| MBIMPA | T_001 | MBI_0411 | Varanus Island | PIO | Reef (low relief) | -2.0 | Coral reef (rubble) | Small corals | -20.63900 | 115.58565 | GPS | GDA94 | Direct | No Video | KBA | 15/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------|-----------|-----------------------|-------|-----------------------------------|--|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| MBIMPA | T_002 | MBI_0412 | Varanus Island | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Some coral bommies | -20.64914 | 115.59070 | GPS | GDA94 | Direct | No Video | KBA | 15/12/2006 |
| MBIMPA | T_003 | MBI_0413 | Varanus Island | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | About 10% cover of macroalgae, rubble and small corals | -20.66023 | 115.59203 | GPS | GDA94 | Direct | No Video | KBA | 15/12/2006 |
| MBIMPA | T_004 | MBI_0414 | Varanus Island | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | <10% macroalgae cover, scattered small Porites bommies | -20.66382 | 115.59144 | GPS | GDA94 | Direct | No Video | KBA | 15/12/2006 |
| MBIMPA | T_005 | MBI_0415 | | PIO | Reef (low relief) | | Reef/turf algae | Bare | -20.67277 | 115.58970 | GPS | GDA94 | Direct | No Video | KBA | 15/12/2006 |
| MBIMPA | T_006 | MBI_0416 | | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | About 30-40% macroalgae cover | -20.70824 | 115.57898 | GPS | GDA94 | Direct | No Video | KBA | 15/12/2006 |
| MBIMPA | COR_016B1 | MBI_0417 | | PIO | Reef (high relief) | -4.2 | Coral reef (Poritidae) medium | A substantial area of poritid bommies off the Lowendal shelf; three individual bommies; high live coral cover <50%; other hard corals include arborescent and tabulate acroporids and encrusting montiporids; other benthos included Gorgonians and hydroids | -20.78461 | 115.52475 | GPS | GDA94 | Direct | MBI/COR_016- 20061216 | | 16/12/2006 |
| MBIMPA | COR_016B2 | MBI_0418 | South Lowendal Shelf | PIO | Reef (high relief) | -4.2 | Coral reef (Poritidae) medium | A substantial area of poritid bommies off the Lowendal shelf; three individual bommies; high live coral cover <50%; other hard corals include arborescent and tabulate acroporids and encrusting montiporids; other benthos included Gorgonians and hydroids | -20.78435 | 115.52507 | GPS | GDA94 | Direct | MBI/COR_016- 20061216 | | 16/12/2006 |
| MBIMPA | COR_016B3 | MBI_0419 | South Lowendal Shelf | PIO | Reef (high relief) | -4.2 | Coral reef (Poritidae) medium | A substantial area of poritid bommies off the Lowendal shelf; three individual bommies; high live coral cover <50%; other hard corals include arborescent and tabulate acroporids and encrusting montiporids; other benthos included Gorgonians and hydroids | -20.78386 | 115.52550 | GPS | GDA94 | Direct | MBI/COR_016- 20061216 | | 16/12/2006 |
| | COR_017B1 | | Shelf | | Reef (high relief) | -6.5 | Coral reef (Poritidae) dense | Three isolated poritid bommies located in a bommie field east off the Lowendal shelf; live hard coral cover was >50%; other hard corals present include tabulate and branching acroporids and foliose Turbinaria spp.; turf algae covered reef pavemen | | 115.57447 | | GDA94 | Direct | MBI/COR_017- 20061216 | | 16/12/2006 |
| MBIMPA | COR_017B2 | MBI_0421 | SE Lowendal Shelf | PIO | Reef (high relief) | -6.5 | Coral reef (Poritidae) dense | Three isolated poritid bommies located in a bommie field east off the Lowendal shelf; live hard coral cover was >50%; other hard corals present include tabulate and branching acroporids and foliose Turbinaria spp.; turf algae covered reef pavement;i | -20.75621 | 115.57412 | GPS | GDA94 | Direct | MBI/COR_017- 20061216 | | 16/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------------------------|-----------|-----------------------|-------|------------------------------------|--|---------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| | COR_017B3 | _ | Shelf | | Reef (high relief) | -6.5 | Coral reef (Poritidae) dense | Three isolated poritid bommies located in a bommie field east off the Lowendal shelf; live hard coral cover was >50%; other hard corals present include tabulate and branching acroporids and foliose Turbinaria spp.; turf algae covered reef pavement | | | | GDA94 | Direct | MBI/COR_017- 20061216 | | 16/12/2006 |
| MBIMPA | COR_018T1 | MBI_0423 | Southern Lowendal Shelf | PIO | Reef (high relief) | -0.5 | Coral reef (Acroporidae) medium | Vast area of coral reef habit on the southern end of the Lowendal Shelf; deeper water is ~150m south of site; mainly comprised of arborescent acroporid; tabulate and corymbose acroporid forms are present; ~70% live hard coral cover; turf algae on reef pavement | | 115.50667 | GPS | GDA94 | Direct | MBI/COR_018- 20061216 | | 16/12/2006 |
| MBIMPA | COR_018T1 | MBI_0424 | Southern Lowendal Shelf | PIO | Reef (high relief) | -0.5 | Coral reef (Acroporidae) medium | Vast area of coral reef habit on the southern end of the Lowendal Shelf; deeper water is ~150m south of site; mainly comprised of arborescent acroporid; tabulate and corymbose acroporid forms are present; ~70% live hard coral cover; turf algae on reef pavement | | 115.50666 | GPS | GDA94 | Direct | MBI/COR_018- 20061216 | | 16/12/2006 |
| MBIMPA | COR_018T2 | MBI_0425 | Southern Lowendal Shelf | PIO | Reef (high relief) | -0.5 | Coral reef (Acroporidae) medium | Vast area of coral reef habit on the southern end of the Lowendal Shelf; deeper water is ~150m south of site; mainly comprised of arborescent acroporid; tabulate and corymbose acroporid forms are present; ~70% live hard coral cover; turf algae on reef pavement | | 115.50639 | GPS | GDA94 | Direct | MBI/COR_018- 20061216 | | 16/12/2006 |
| MBIMPA | COR_018T2 | MBI_0426 | Southern Lowendal Shelf | PIO | Reef (high relief) | -0.5 | Coral reef (Acroporidae) medium | Vast area of coral reef habit on the southern end of the Lowendal Shelf; deeper water is ~150m south of site; mainly comprised of arborescent acroporid; tabulate and corymbose acroporid forms are present; ~70% live hard coral cover; turf algae on reef pavement | | 115.50639 | GPS | GDA94 | Direct | MBI/COR_018- 20061216 | | 16/12/2006 |
| MBIMPA | COR_018T3 | MBI_0427 | Southern Lowendal Shelf | PIO | Reef (high relief) | -0.5 | Coral reef (Acroporidae) medium | Vast area of coral reef habit on the southern end of the Lowendal Shelf; deeper water is ~150m south of site; mainly comprised of arborescent acroporid; tabulate and corymbose acroporid forms are present; ~70% live hard coral cover; turf algae on reef pavement | | 115.50609 | GPS | GDA94 | Direct | MBI/COR_018- 20061216 | | 16/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|--------------|----------|-------------------------------|-----------|-----------------------|-------|------------------------------------|--|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | COR_018T3 | MBI_0428 | Southern Lowendal Shelf | PIO | Reef (high relief) | -0.5 | Coral reef (Acroporidae) medium | Vast area of coral reef habit on the southern end of the Lowendal Shelf; deeper water is ~150m south of site; mainly comprised of arborescent acroporid; tabulate and corymbose acroporid forms are present; ~70% live hard coral cover; turf algae on reef pavement | -20.78663 | 115.50611 | GPS | GDA94 | Direct | MBI/COR_018- 20061216 | | 16/12/2006 |
| MBIMPA | coral lipids | MBI_0429 | South Lowendal Shelf | PIO | Reef (high relief) | | Coral reef (mixed) sparse | Mixed corals | -20.78674 | 115.50601 | GPS | GDA94 | Direct | No Video | | 16/12/2006 |
| MBIMPA | Lipid site | MBI_0430 | South Lowendal Shelf | PIO | Reef (high relief) | | Coral reef (mixed) sparse | Mixed corals | -20.78380 | 115.52565 | GPS | GDA94 | Direct | No Video | | 16/12/2006 |
| MBIMPA | Q_001 | MBI_0431 | South Lowendal Shelf | PIO | Reef (low relief) | | Coral reef (mixed) sparse | Coral bumps, scattered, rubble bottom | -20.78709 | 115.52414 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#07- 20061213 | KBA | 16/12/2006 |
| MBIMPA | Q_002 | MBI_0432 | South Lowendal Shelf | PIO | Reef (high relief) | -6.0 | Coral reef (Poritidae) sparse | Isolated bommies on rubble bottom | -20.78673 | 115.52392 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_003 | MBI_0433 | South Lowendal Shelf | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Isolated bommies | -20.78600 | 115.52383 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_004 | MBI_0434 | South Lowendal Shelf | PIO | Reef (low relief) | -5.0 | Coral reef (mixed) sparse | Rubble bottom with scattered hard and soft coral | -20.78479 | 115.52220 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#07- 20061213 | KBA | 16/12/2006 |
| MBIMPA | Q_005 | MBI_0435 | South Lowendal Shelf | PIO | Reef (high relief) | -5.0 | Coral reef (mixed) medium | Coral ,10-20% on rubble, odd bommie <i>Porites</i> | -20.78567 | 115.51974 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_006 | MBI_0436 | South Lowendal Shelf | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) medium | Macroalgae about 20%, scattered coral about 10%, coral rubble, coarse sand | -20.78710 | 115.51521 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_007 | MBI_0437 | South Lowendal Shelf | PIO | Reef (high relief) | -4.0 | Coral reef (Poritidae) medium | Large clusters of <i>Porites</i> bommies about 30m in diameter | -20.78789 | 115.51248 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_008 | MBI_0438 | South Lowendal Shelf | PIO | Reef (high relief) | -4.0 | Coral reef (Poritidae) sparse | Isolated coral bommies, <i>Porites</i> and <i>Acropora</i> , coral rubble around | -20.78920 | 115.50958 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_009 | MBI_0439 | South Lowendal Shelf | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) sparse | Scattered corals on coral rubble bottom, some Porites lumps | -20.78947 | 115.50939 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#07- 20061213 | KBA | 16/12/2006 |
| MBIMPA | Q_010 | MBI_0440 | South Lowendal Shelf | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) sparse | Scattered corals on coral rubble bottom, some Porites lumps | -20.78911 | 115.50875 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------|-----------|----------------------|-------|------------------------------------|---|-----------|-----------|----------|-------|-----------------------|----------------------|----------|------------|
| MBIMPA | Q_011 | MBI_0441 | South Lowendal Shelf | PIO | Reef (high relief) | -4.0 | Coral reef (Acroporidae) medium | Coral plates, Acropora and montipora, bommies <i>Porites</i> , about 20-30% cover | -20.78888 | 115.50702 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_012 | MBI_0442 | South Lowendal Shelf | PIO | Reef (high relief) | -4.0 | Coral reef (Acroporidae) medium | Staghorn coral, coral rubble, scattered coral plates, scattered <i>Porites</i> | -20.78752 | 115.50596 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_013 | MBI_0443 | South Lowendal Shelf | PIO | Reef (high relief) | -4.0 | Coral reef (Acroporidae) medium | Staghorn coral, coral rubble, scattered coral plates, scattered <i>Porites</i> | -20.78524 | 115.50505 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_014 | MBI_0444 | South Lowendal Shelf | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Macroalgae about 10%, sponges (vase like) seawhips and other octocorals | -20.78176 | 115.51104 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_015 | MBI_0445 | South Lowendal Shelf | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) medium | Scattered corals, sponges and soft corals, macroalgae about 15% | -20.78263 | 115.51313 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_016 | MBI_0446 | South Lowendal Shelf | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) medium | Macroalgae about 30%, scattered corals ectà | -20.78337 | 115.51688 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_017 | MBI_0447 | South Lowendal Shelf | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Macroalgae about 10%, various corals about 10%, sponges, coral trout | -20.78361 | 115.52059 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_018 | MBI_0448 | South Lowendal Shelf | PIO | Reef (high relief) | -4.0 | Coral reef (Poritidae) sparse | Scattered corals, <i>Porites</i> bommies on coral rubble, some <i>Acropora</i> | -20.78641 | 115.52328 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | Q_019 | MBI_0449 | South Lowendal Shelf | PIO | Sand | | Sand | Some sand ripples | -20.78885 | 115.52432 | GPS | GDA94 | Direct | No Video | KBA | 16/12/2006 |
| MBIMPA | R_002 | MBI_0450 | South Lowendal Shelf | PIO | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) sparse | Rubble, macroalgae | -20.74730 | 115.56169 | GPS | GDA94 | Direct | No Video | S | 16/12/2006 |
| MBIMPA | R_003 | MBI_0451 | South Lowendal Shelf | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae, a few rocks/rubble | -20.74788 | 115.56204 | GPS | GDA94 | Direct | No Video | SLO | 16/12/2006 |
| MBIMPA | R_004 | MBI_0452 | South Lowendal Shelf | PIO | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) sparse | Rubble, sand, sparse macroalgae | -20.74847 | 115.56150 | GPS | GDA94 | Direct | No Video | SLO | 16/12/2006 |
| MBIMPA | R_005 | MBI_0453 | | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Rubble, macroalgae, occasional soft coral | -20.74850 | 115.56185 | GPS | GDA94 | Direct | No Video | SLO | 16/12/2006 |
| MBIMPA | R_007 | MBI_0454 | South Lowendal Shelf | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Sand, rubble, scattered macroalgae | -20.75063 | 115.54899 | GPS | GDA94 | Direct | No Video | SLO | 16/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------|-----------|----------------------|-------|-----------------------------------|--|-----------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| MBIMPA | R_009 | MBI_0455 | South Lowendal Shelf | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | A rock with small hard corals surrounded by algae and rubble - might once have been a Porites bommie (long ago) | | | | GDA94 | Direct | No Video | SLO | 16/12/2006 |
| MBIMPA | R_012 | MBI_0456 | South Lowendal Shelf | | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) dense | Luxuriant macroalgae, sand, occasional coral | -20.76921 | 115.54336 | GPS | GDA94 | Direct | No Video | SLO | 16/12/2006 |
| MBIMPA | R_013 | MBI_0457 | South Lowendal Shelf | PIO | Reef (high relief) | -5.0 | Coral reef (Poritidae) dense | Big <i>Porites</i> bommie with other corals, isolated | -20.78412 | 115.52719 | GPS | GDA94 | Direct | No Video | SLO | 16/12/2006 |
| MBIMPA | R_014 | MBI_0458 | South Lowendal Shelf | PIO | Reef (high relief) | -5.0 | Coral reef (mixed) sparse | Rock with corals (not a <i>Porites</i> bommie) | -20.78378 | 115.52661 | GPS | GDA94 | Direct | No Video | SLO | 16/12/2006 |
| MBIMPA | R_015 | MBI_0459 | South Lowendal Shelf | PIO | Reef (high relief) | -6.0 | Coral reef (Poritidae) sparse | Big <i>Porites</i> bommie | -20.78384 | 115.52565 | GPS | GDA94 | Direct | No Video | SLO | 16/12/2006 |
| MBIMPA | COR_019T1 | MBI_0460 | Inside Wonnich Reef | | Reef (low relief) | -0.6 | Coral reef (Acroporidae) dense | Substantial back reef area dominated by tabular acroporids, approximately 95% cover of coral (dead and live); evidence that the top surface of the plate coral has been exposed to air probably at spring low tide; top surface has substantial amounts of algae | | 115.47731 | GPS | GDA94 | Direct | MBI/COR_019- 20061217 | | 17/12/2006 |
| MBIMPA | COR_019T1 | MBI_0461 | Inside Wonnich Reef | PIO | Reef (low relief) | -0.6 | Coral reef (Acroporidae) dense | Substantial back reef area dominated by tabular acroporids, approximately 95% cover of coral (dead and live); evidence that the top surface of the plate coral has been exposed to air probably at spring low tide; top surface has substantial amounts of algae | | 115.47735 | GPS | GDA94 | Direct | MBI/COR_019- 20061217 | | 17/12/2006 |
| MBIMPA | COR_019T2 | MBI_0462 | Inside Wonnich Reef | PIO | Reef (low relief) | -0.6 | Coral reef (Acroporidae) dense | Substantial back reef area dominated by tabular acroporids, approximately 95% cover of coral (dead and live); evidence that the top surface of the plate coral has been exposed to air probably at spring low tide; top surface has substantial amounts of algae | | 115.47759 | | GDA94 | Direct | MBI/COR_019- 20061217 | | 17/12/2006 |
| MBIMPA | COR_019T2 | MBI_0463 | Inside Wonnich Reef | PIO | Reef (low relief) | -0.6 | Coral reef (Acroporidae) dense | Substantial back reef area dominated by tabular acroporids, approximately 95% cover of coral (dead and live); evidence that the top surface of the plate coral has been exposed to air probably at spring low tide; top surface has substantial amounts of algae | | 115.47760 | GPS | GDA94 | Direct | MBI/COR_019- 20061217 | | 17/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|---------------------------|-----------|----------------------|-------|-------------------------------------|--|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | COR_019T3 | MBI_0464 | Inside Wonnich Reef | PIO | Reef (low relief) | -0.6 | Coral reef (Acroporidae) dense | Substantial back reef area dominated by tabular acroporids, approximately 95% cover of coral (dead and live); evidence that the top surface of the plate coral has been exposed to air probably at spring low tide; top surface has substantial amounts of algae | -20.50972 | 115.47782 | GPS | GDA94 | | MBI/COR_019- 20061217 | | 17/12/2006 |
| MBIMPA | COR_019T3 | MBI_0465 | Inside Wonnich Reef | PIO | Reef (low relief) | -0.6 | Coral reef (Acroporidae) dense | Substantial back reef area dominated by tabular acroporids, approximately 95% cover of coral (dead and live); evidence that the top surface of the plate coral has been exposed to air probably at spring low tide; top surface has substantial amounts of algae | | 115.47788 | GPS | GDA94 | Direct | MBI/COR_019- 20061217 | | 17/12/2006 |
| MBIMPA | M_001 | MBI_0466 | Wonnich Reef (East) | PIO | Reef (high relief) | -2.0 | Coral reef (Poritidae) sparse | Coral bommies | -20.50254 | 115.47468 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_002 | MBI_0467 | Wonnich Reef (East) | PIO | / | -2.0 | Soft corals (Alcyoniidae) sparse | Soft corals | -20.50284 | 115.47477 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_003 | MBI_0468 | Wonnich Reef (East) | PIO | | -2.0 | Coral reef (Poritidae) | Coral bommies | -20.50255 | 115.47518 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_004 | MBI_0469 | Wonnich Reef (East) | PIO | | | Coral reef (Poritidae) | Coral bommies | -20.50273 | 115.47613 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_005 | MBI_0470 | Wonnich Reef (East) | PIO | | -4.3 | Coral reef (Poritidae) sparse | Coral bommies | -20.50296 | 115.47627 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_006 | MBI_0471 | Wonnich Reef (East) | PIO | | | Coral reef (mixed) | Good monitoring site, coral reef community | -20.50426 | 115.47709 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_007 | MBI_0472 | Wonnich Reef (East) | PIO | / | | Coral reef (mixed) | Typical back reef, coral community, plates, etc | -20.50612 | 115.47850 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_008 | MBI_0473 | Wonnich Reef (East) | PIO | | | Coral reef (Poritidae) medium | Bommie field | -20.50859 | 115.47835 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_009 | MBI_0474 | Wonnich Reef (East) | PIO | , | -1.0 | Coral reef (Acroporidae) sparse | Acropora plates | -20.51039 | 115.47833 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_010 | MBI_0475 | | PIO | Sand | -11.2 | Sand | Bare sand | -20.53848 | 115.47952 | GPS | GDA94 | | MSP/MBI/DDV#10- 20061217 | KBA | 17/12/2006 |
| MBIMPA | M_011 | MBI_0476 | West Lowendal Shelf | PIO | Sand | -7.6 | Sand | Sand ripples, coarse sand | -20.53967 | 115.47858 | GPS | GDA94 | | MSP/MBI/DDV#10- 20061217 | KBA | 17/12/2006 |
| MBIMPA | M_012 | MBI_0477 | | PIO | Sand | -9.5 | Sand | Sand, siltier than | -20.54229 | 115.48061 | GPS | GDA94 | | MSP/MBI/DDV#10- 20061217 | KBA | 17/12/2006 |
| MBIMPA | M_013 | MBI_0478 | | PIO | Sand | -9.0 | Sand | Coarse sand | -20.54218 | 115.46672 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#10- 20061217 | KBA | 17/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|---------------------------|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|----------------------|----------|------------|
| MBIMPA | M_014 | MBI_0479 | West Lowendal Shelf | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) dense | Good macroalgae, 80% cover | -20.55168 | 115.46386 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_015 | MBI_0480 | West Lowendal Shelf | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Macroalgae | -20.55377 | 115.45466 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_016 | MBI_0481 | West Lowendal Shelf | PIO | Reef (high relief) | -5.0 | Coral reef (Poritidae) medium | Porites bommies clusters | -20.54991 | 115.45203 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_017 | MBI_0482 | West Lowendal Shelf | PIO | Reef (high relief) | -3.0 | Coral reef (Poritidae) medium | Coral bommie clusters | -20.54981 | 115.45171 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_018 | MBI_0483 | | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Coral rubble with macroalgae | -20.54998 | 115.45064 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_019 | MBI_0484 | West Lowendal Shelf | PIO | Reef (low relief) | -1.5 | Macroalgae (Phaeophyta) sparse | Macroalgae on coral rubble, limestone pavement | -20.54953 | 115.44968 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_020 | MBI_0485 | West Lowendal Shelf | PIO | Reef (low relief) | -1.2 | Macroalgae (Phaeophyta) sparse | Macroalgae on coral rubble, pavement, some small coral recruits | -20.55091 | 115.44877 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | M_021 | MBI_0486 | West Lowendal Shelf | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Coral rubble with macroalgae, small acroporids | -20.55237 | 115.45008 | GPS | GDA94 | Direct | No Video | KBA | 17/12/2006 |
| MBIMPA | N_041 | MBI_0487 | Wonnich Reef (South) | PIO | Reef (low relief) | -13.0 | Macroalgae (Phaeophyta) dense | Dense short macroalgae, sand | -20.51127 | 115.44638 | GPS | GDA94 | Direct | No Video | SLO | 17/12/2006 |
| MBIMPA | N_042 | MBI_0488 | Wonnich Reef (South) | PIO | Reef (low relief) | -11.0 | Macroalgae (Phaeophyta) dense | Dense short macroalgae | -20.51369 | 115.45017 | GPS | GDA94 | Direct | No Video | SLO | 17/12/2006 |
| MBIMPA | N_043 | MBI_0489 | Wonnich Reef (South) | PIO | Reef (low relief) | -9.0 | Macroalgae (Phaeophyta) dense | Clumpy short macroalgae (turtle grass?) | -20.51779 | | | GDA94 | Direct | No Video | SLO | 17/12/2006 |
| MBIMPA | N_044 | MBI_0490 | Wonnich Reef (South) | PIO | Reef (low relief) | -4.0 | Reef/turf algae | Turf algae, pavement | -20.51705 | 115.45868 | GPS | GDA94 | Direct | No Video | SLO | 17/12/2006 |
| MBIMPA | N_045 | MBI_0491 | Wonnich Reef (South) | PIO | Reef (low relief) | -4.0 | Soft corals (Alcyoniidae) medium | Rocky pavement, encrusting hard and soft corals about 20-30% cover, high energy environment | -20.51670 | 115.45995 | GPS | GDA94 | Direct | No Video | SLO | 17/12/2006 |
| MBIMPA | N_046 | MBI_0492 | Wonnich Reef (South) | PIO | Reef (low relief) | -4.0 | Reef/turf algae | Clumps of dense filamentous macroalgae (turtlegrass?) | -20.51719 | 115.45821 | GPS | GDA94 | Direct | No Video | SLO | 17/12/2006 |
| MBIMPA | N_047 | | Wonnich Reef (South) | | Reef (low relief) | -7.0 | Reef/turf algae | Pavement, sparse turf | -20.51630 | 115.45689 | GPS | GDA94 | Direct | No Video | SLO | 17/12/2006 |
| MBIMPA | N_048 | MBI_0494 | Wonnich Reef (South) | PIO | Reef (low relief) | -4.0 | Reef/turf algae | Old ridgeline with very occasional soft encrusting otherwise turf algae | -20.51574 | 115.45486 | GPS | GDA94 | Direct | No Video | SLO | 17/12/2006 |
| MBIMPA | N_049 | MBI_0495 | Wonnich Reef (South) | PIO | Reef (low relief) | -5.0 | Reef/turf algae | Sparse small corals on turf-covered pavement | -20.51454 | 115.45367 | GPS | GDA94 | Direct | No Video | SLO | 17/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------|-----------|----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | P_001 | MBI_0496 | West Reef (North) | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) dense | Macroalgae on reef slope <80% cover, some sponges and soft corals | -20.35757 | 115.50799 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_002 | MBI_0497 | West Reef (North) | | Reef (low relief) | -8.0 | Macroalgae (Phaeophyta) medium | Macroalgae turf about 30% on limestone reef | -20.35713 | 115.50743 | GPS | GDA94 | video | MSP/MBI/DDV#08_ 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_003 | MBI_0498 | West Reef (North) | PIO | Reef (low relief) | -5.0 | Reef/turf algae | Some turf <20%, some soft corals on limstone reef pavement | -20.35632 | 115.50470 | GPS | GDA94 | video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_004 | MBI_0499 | West Reef (North) | PIO | Reef (low relief) | -9.5 | Soft corals (Alcyoniidae) medium | Some hard to soft corals about 30-40% cover, turf algae < 20% , then to turf algae on reef pavement | -20.35596 | 115.50291 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| | P_005 | MBI_0500 | West Reef (North) | | Sand | | Sand | Coarse sand and rubble | -20.35527 | 115.50152 | GPS | GDA94 | video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_006 | MBI_0501 | West Reef (North) | PIO | Reef (low relief) | -9.0 | Reef/turf algae | Some turf algae with soft and hard corals | -20.35465 | 115.50021 | GPS | GDA94 | video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_007 | MBI_0502 | West Reef (North) | PIO | Reef (low relief) | -9.0 | Reef/turf algae | Some turf algae about 20%, some soft corals | -20.35453 | | | GDA94 | video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_008 | MBI_0503 | West Reef (North) | PIO | Reef (low relief) | | Reef/turf algae | | -20.35419 | 115.49516 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_009 | MBI_0504 | West Reef (North) | PIO | Reef (low relief) | -21.0 | Reef/turf algae | Little bits of turf algae and coral | -20.35342 | 115.49324 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_010 | MBI_0505 | West Reef (North) | PIO | Reef (low relief) | -21.0 | Reef/turf algae | Bare | -20.35262 | 115.48686 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_011 | MBI_0506 | West Reef (North) | PIO | Reef (low relief) | -20.5 | Macroalgae (Phaeophyta) sparse | Some macroalgae <10%, sand inundated limestone pavement | -20.36253 | 115.48414 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_012 | MBI_0507 | West Reef (North) | PIO | Reef (low relief) | -15.0 | Macroalgae (Phaeophyta) sparse | Some macroalgae tuffs, some octocorals (seawhips), some soft/hard coral | -20.36248 | 115.48660 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_013 | MBI_0508 | West Reef (North) | PIO | Reef (low relief) | -20.0 | Macroalgae (Phaeophyta) sparse | Some macroalgae <10%, some filterfeeders <10% | -20.36253 | 115.48774 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_014 | MBI_0509 | West Reef (North) | PIO | Reef (low relief) | -19.0 | Soft corals (Alcyoniidae) sparse | Sand inundated limestone reef pavements, some soft coral | -20.36331 | 115.49287 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_015 | MBI_0510 | West Reef (North) | PIO | Reef (low relief) | -16.0 | Reef/turf algae | Sponge, soft corals and macroalgae turf on sand inundated limestone reef pavement | -20.36326 | 115.49369 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_016 | MBI_0511 | West Reef (North) | PIO | Reef (low relief) | -10.2 | Soft corals (Alcyoniidae) sparse | Soft corals, some sponges etc | -20.36436 | 115.49804 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_017 | MBI_0512 | West Reef (North) | PIO | Reef (low relief) | -6.6 | Soft corals (Alcyoniidae) dense | Soft corals about 90% | -20.36507 | 115.49944 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_018 | MBI_0513 | West Reef (North) | PIO | Reef (low relief) | | Soft corals (Alcyoniidae) dense | Mostly soft corals with hard corals | -20.36556 | 115.50016 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_019 | MBI_0514 | West Reef (North) | PIO | Reef (low relief) | -3.5 | Soft corals (Alcyoniidae) medium | ~25% soft corals/hard corals, algae turf on limestone reef with rubble | -20.37581 | 115.49813 | GPS | GDA94 | | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_020 | MBI_0515 | West Reef (North) | PIO | Reef (low relief) | -7.2 | Soft corals (Alcyoniidae) dense | Soft coral dominated some hard corals with algae turf | -20.37584 | 115.49707 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_021 | MBI_0516 | 1 - / | PIO | Reef (low relief) | -18.3 | Reef/turf algae | Bare | -20.37594 | 115.49605 | GPS | GDA94 | Drop down | | KBA | 17/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------|-----------|----------------------|-------|-------------------------------------|--|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | P_022 | | West Reef (North) | | Reef (low relief) | | Reef/turf algae | Bare | -20.37571 | 115.49426 | | GDA94 | video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_023 | | West Reef (North) | | Reef (low relief) | | Reef/turf algae | Algae turf, some soft corals, mostly bare | -20.37512 | | | GDA94 | video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| | P_024 | MBI_0519 | West Reef (North) | | Reef (low relief) | -22.5 | Filter feeders (sponges) | Sponges, sea fans and whips, macroalgae <20% on reef pavement | | 115.48793 | GPS | GDA94 | video | 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_025 | MBI_0520 | West Reef (North) | PIO | Reef (low relief) | -18.0 | Macroalgae (Phaeophyta) sparse | Macroalgae turf algae about 10%, coarse sand, some soft corals | -20.38419 | 115.49114 | GPS | GDA94 | video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_026 | MBI_0521 | West Reef (North) | PIO | Reef (low relief) | -10.0 | Soft corals (Alcyoniidae) dense | Soft corals about 60-70%, hard corals, some algae | -20.38437 | 115.49209 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_027 | MBI_0522 | West Reef (North) | PIO | Reef (low relief) | -8.4 | Soft corals (Alcyoniidae) dense | Soft coral, hard coral, some turf algae, sea whips | -20.38491 | 115.49340 | GPS | GDA94 | | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_028 | MBI_0523 | West Reef (North) | PIO | Reef (low relief) | -15.8 | Macroalgae (Phaeophyta) medium | Macroalgae about 30-40%, scattered soft and hard corals | -20.38524 | 115.49507 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_029 | MBI_0524 | West Reef (North) | PIO | Reef (low relief) | -9.8 | Soft corals (Alcyoniidae) medium | Soft corals about 50%, bare on slope | -20.38573 | 115.49759 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_030 | MBI_0525 | West Reef (North) | PIO | Reef (low relief) | -2.0 | Soft corals (Alcyoniidae) sparse | Soft corals, hard corals, quite diverse, some algae turf | -20.38608 | 115.49843 | GPS | GDA94 | | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_031 | MBI_0526 | West Reef (North) | PIO | Reef (low relief) | -17.3 | Reef/turf algae | Sand on pavement, bare | -20.38775 | 115.49654 | GPS | GDA94 | | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_032 | MBI_0527 | West Reef (North) | PIO | Reef (low relief) | -10.0 | Macroalgae (Phaeophyta) sparse | Macroalgae and turf algae about 30%, soft corals and sponges | -20.38872 | 115.49551 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_033 | MBI_0528 | West Reef (North) | PIO | Reef (low relief) | -5.4 | Soft corals (Alcyoniidae) sparse | Soft corals, some hard corals, some macroalgae tufts, low profile | -20.39010 | 115.49388 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_034 | MBI_0529 | West Reef (North) | PIO | Reef (low relief) | -2.5 | Coral reef (Acroporidae) medium | Corals, corymbose <i>Acropora</i> about 30% cover, turf algae, low profile | -20.39911 | 115.49571 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_035 | MBI_0530 | West Reef (North) | PIO | Reef (high relief) | | Coral reef (mixed) medium | High coral cover on drop off, high profile | -20.39924 | 115.49517 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_036 | MBI_0531 | West Reef (North) | PIO | Reef (low relief) | -13.0 | Reef/turf algae | Low profile reef, bare, bits of rubble and shell grit | -20.39936 | 115.49448 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_037 | MBI_0532 | West Reef (North) | PIO | Sand | -19.5 | Sand | Sand rubble, coarse sand, low profile | -20.39930 | 115.49168 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_038 | MBI_0533 | West Reef (North) | PIO | Reef (low relief) | -11.5 | Macroalgae (Phaeophyta) medium | Tall macroalgae medium cover, some plate corals | -20.39962 | 115.48548 | GPS | GDA94 | | MSP/MBI/DDV#08- 20061217 | KBA | 17/12/2006 |
| MBIMPA | P_039 | MBI_0534 | West Reef (North) | PIO | Reef (low relief) | -20.1 | Reef/turf algae | Algae tufts, on sand inundated reef pavement, some macroalgae, some sponges | -20.39945 | 115.48432 | GPS | GDA94 | Drop down video | | KBA | 17/12/2006 |
| MBIMPA | Waypt 349 | MBI_0535 | West Reef (central) | PIO | Reef (low relief) | -2.0 | Coral reef (mixed) sparse | Very close to the reef platform, soft and hard corals and algae on rocky substrate, mostly corals but patchy | -20.39655 | 115.49319 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 350 | MBI_0536 | West Reef (central) | PIO | Sand | -17.5 | Sand | Sandy bottom , some algae | -20.39572 | 115.49093 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 351 | MBI_0537 | West Reef (central) | PIO | Reef (low relief) | -16.5 | Reef/turf algae | Sand mostly and with some rubble, scattered algae | -20.39556 | 115.49136 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------|-----------|----------------------|-------|------------------------------------|---|-----------|-----------|----------|-------|---------------------------|-----------------------------|----------|------------|
| MBIMPA | Waypt 352 | MBI_0538 | West Reef (central) | PIO | Reef (low relief) | -6.5 | Reef/turf algae | Mostly rocky with sand and rubble, soft corals and hard corals and algae | -20.39549 | 115.49200 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 353 | MBI_0539 | West Reef (central) | PIO | Reef (high relief) | | Coral reef (mixed) medium | Complex rock substrate with ledges and curves, high density mixed coral in patches with areas of bare substrate and sand, some algae? | -20.39552 | 115.48869 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 354 | MBI_0540 | West Reef (central) | PIO | Reef (low relief) | -18.0 | Macroalgae (Phaeophyta) sparse | Pavement, rubble and macroalgae | -20.39468 | 115.48785 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 355 | MBI_0541 | West Reef (central) | PIO | Reef (low relief) | -22.0 | Reef/turf algae | Pavement, rubble, algae and some sponges | -20.39472 | 115.48588 | GPS | GDA94 | | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 356 | MBI_0542 | | PIO | Reef (low relief) | -17.0 | Macroalgae (Phaeophyta) sparse | Pavement with macroalgae and sparse soft corals, mostly algae? | -20.39831 | 115.48572 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 357 | MBI_0543 | 1 | | Reef (low relief) | | Coral reef (Acroporidae) sparse | Pavement with soft coral and Acropora at - 14m, pavement, algae and sparse coral at - 17m | -20.39836 | 115.48789 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 358 | MBI_0544 | West Reef (central) | PIO | Reef (low relief) | -18.0 | Reef/turf algae | Pavement, sand some rocks, macroalgae and sponges(?) | -20.39841 | 115.49028 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 359 | MBI_0545 | | PIO | Sand | -18.3 | Sand | Bare sand | -20.39932 | 115.49295 | GPS | GDA94 | | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 360 | MBI_0546 | West Reef (central) | PIO | Reef (low relief) | -4.5 | Soft corals (Alcyoniidae) dense | Dense soft and hard coral | -20.39996 | 115.49404 | GPS | GDA94 | | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 361 | MBI_0547 | | PIO | Reef (low relief) | -4.0 | Soft corals (Alcyoniidae) dense | Dense soft and hard coral | -20.40099 | 115.49482 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 362 | MBI_0548 | | PIO | Reef (low relief) | -4.0 | Soft corals (Alcyoniidae) dense | Dense soft and hard coral | -20.40249 | 115.49409 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 363 | MBI_0549 | | PIO | Reef (low relief) | -3.0 | Soft corals (Alcyoniidae) dense | Dense soft and hard coral | -20.40378 | 115.49361 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 364 | MBI_0550 | | PIO | Reef (low relief) | -3.0 | Soft corals (Alcyoniidae) dense | Dense soft and hard coral | -20.40574 | 115.49261 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 365 | MBI_0551 | West Reef (central) | PIO | Reef (low relief) | -4.0 | Soft corals (Alcyoniidae) sparse | Soft and hard coral | -20.40696 | 115.49247 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 366 | MBI_0552 | (| PIO | Reef (low relief) | -6.5 | Soft corals (Alcyoniidae) medium | Soft and hard coral, moderate density | -20.40825 | 115.49235 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 367 | MBI_0553 | | PIO | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) sparse | Pavement with sparse macroalgae, sparse corals | -20.40867 | 115.49297 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 369 | MBI_0554 | (| PIO | Reef (low relief) | -1.5 | Macroalgae (Phaeophyta) dense | Dense macroalgae | -20.40955 | 115.49447 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 370 | MBI_0555 | | PIO | | -3.5 | Macroalgae (Phaeophyta) sparse | Pavement with macroalgae | -20.40675 | 115.49595 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 371 | MBI_0556 | (| PIO | Reef (low relief) | -3.0 | Coral reef (Acroporidae) medium | Moderate density of corals, large Acropora plates | -20.40625 | 115.49548 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 372 | MBI_0557 | West Reef (central) | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) dense | Dense macroalgae on pavement | -20.40534 | 115.49387 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------------------|-----------|-----------------------|-------|-----------------------------------|---|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| MBIMPA | Waypt 373 | MBI_0558 | West Reef (central) | PIO | Reef (low relief) | -3.0 | Filter feeders (seawhips) | Pavement with octocorals seawhips and algae | -20.40473 | 115.49310 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 374 | MBI_0559 | · / | PIO | Reef (high relief) | -2.5 | Coral reef (mixed) sparse | Boulders with a mix of coral and algae | -20.40500 | 115.49111 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 375 | MBI_0560 | 1 | PIO | Reef (low relief) | -6.5 | Macroalgae (Phaeophyta) sparse | Algae on pavement | -20.40781 | 115.48984 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 376 | MBI_0561 | West Reef (central) | PIO | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Macroalgae on pavement, some soft corals | -20.40790 | 115.48829 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 377 | MBI_0562 | | PIO | Reef (low relief) | -18.0 | Reef/turf algae | Pavement and rubble with algae | -20.40749 | 115.48526 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#09- 20061217 | AKE | 17/12/2006 |
| MBIMPA | Waypt 378 | MBI_0563 | Wonnich Reef (North) | PIO | | -2.0 | Reef/turf algae | Hard pavement with turf algae | -20.48592 | 115.45455 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 379 | MBI_0564 | Wonnich Reef (North) | PIO | , | -3.0 | Reef/turf algae | Hard pavement, turf algae and small hard or soft encrusters | -20.49155 | 115.45195 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 380 | MBI_0565 | Wonnich Reef (North) | PIO | | -6.0 | Reef/turf algae | Hard pavement, turf and short sparse macroalgae | -20.49171 | 115.45120 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 381 | MBI_0566 | Wonnich Reef (North) | PIO | | -8.0 | Reef/turf algae | Pavement, sparse turf/turtle grass, sparse macroalgae | -20.49125 | 115.44990 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 382 | MBI_0567 | Wonnich Reef (North) | PIO | | -8.5 | Macroalgae (Phaeophyta) sparse | Macroalgae, sand patches | -20.49258 | 115.44886 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 383 | MBI_0568 | Wonnich Reef (North) | PIO | , | -8.5 | Reef/turf algae | Rocks/pavement, macroalgae | -20.49409 | 115.44769 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 384 | MBI_0569 | Wonnich Reef (North) | PIO | | -12.0 | Macroalgae (Phaeophyta) dense | Dense short macroalgae | -20.49468 | 115.44699 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 385 | MBI_0570 | Wonnich Reef (North) | PIO | / | -12.0 | Macroalgae (Phaeophyta) dense | Dense short macroalgae | -20.49724 | 115.44730 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 386 | MBI_0571 | Wonnich Reef (North) | PIO | Reef (low relief) | -7.0 | Reef/turf algae | Rocks, short dense turf algae and bare patches | -20.50407 | 115.44860 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 387 | MBI_0572 | Wonnich Reef (North) | PIO | | -10.0 | Macroalgae (Phaeophyta) dense | Dense short macroalgae, bare rock/sand, occasional soft coral | -20.50626 | 115.44774 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | Waypt 388 | MBI_0573 | Wonnich Reef (North) | PIO | Reef (low relief) | -10.0 | Macroalgae (Phaeophyta) dense | Dense short macroalgae, sand | -20.50752 | 115.44585 | GPS | GDA94 | Direct | No Video | AKE | 17/12/2006 |
| MBIMPA | COR_020T1 | MBI_0574 | East Dugong Reef | PIO | / | -3.7 | Coral reef (mixed) dense | A substantial area of coral reef fringing the Dugong shoals; high live hard coral cover of ~60%; high diversity of corals present, including massive poritids and favides, foliose echinoporids and montiporids, corymbose pocilloporids and acroporids | | 115.46174 | GPS | GDA94 | Direct | MBI/COR_020- 20061218 | | 18/12/2006 |
| MBIMPA | COR_020T1 | MBI_0575 | East Dugong Reef | PIO | Reef (high relief) | -3.7 | Coral reef (mixed) dense | A substantial area of coral reef fringing the Dugong shoals; high live hard coral cover of ~60%; high diversity of corals present, including massive poritids and favides, foliose echinoporids and montiporids, corymbose pocilloporids and acroporids | | 115.46220 | GPS | GDA94 | Direct | MBI/COR_020- 20061218 | | 18/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------|-----------|-----------------------|-------|----------------------------------|---|---------|-----------|----------|-------|-----------------------|--------------------------|----------|------------|
| | COR_020T2 | | Reef | | Reef (high relief) | -3.7 | Coral reef (mixed) dense | A substantial area of coral reef fringing the Dugong shoals; high live hard coral cover of ~60%; high diversity of corals present, including massive poritids and favides, foliose echinoporids and montiporids, corymbose pocilloporids and acroporids | | 115.46178 | | GDA94 | Direct | MBI/COR_020- 20061218 | | 18/12/2006 |
| | COR_020T2 | | Reef | PIO | Reef (high relief) | -3.7 | Coral reef (mixed) dense | A substantial area of coral reef fringing the Dugong shoals; high live hard coral cover of ~60%; high diversity of corals present, including massive poritids and favides, foliose echinoporids and montiporids, corymbose pocilloporids and acroporids | | 115.46225 | | GDA94 | Direct | MBI/COR_020- 20061218 | | 18/12/2006 |
| MBIMPA | COR_020T3 | MBI_0578 | East Dugong Reef | PIO | Reef (high relief) | -3.7 | Coral reef (mixed) dense | A substantial area of coral reef fringing the Dugong shoals; high live hard coral cover of ~60%; high diversity of corals present, including massive poritids and favides, foliose echinoporids and montiporids, corymbose pocilloporids and acroporids | | 115.46172 | GPS | GDA94 | Direct | MBI/COR_020- 20061218 | | 18/12/2006 |
| MBIMPA | COR_020T3 | MBI_0579 | East Dugong Reef | PIO | Reef (high relief) | -3.7 | Coral reef (mixed) dense | A substantial area of coral reef fringing the Dugong shoals; high live hard coral cover of ~60%; high diversity of corals present, including massive poritids and favides, foliose echinoporids and montiporids, corymbose pocilloporids and acroporids | | 115.46219 | GPS | GDA94 | Direct | MBI/COR_020- 20061218 | | 18/12/2006 |
| MBIMPA | COR_021T1 | MBI_0580 | Central Dugong Reef | PIO | Reef (high relief) | -1.4 | Coral reef (Poritidae) medium | A scattered coral reef area with significant rubble zone; located on the northern edge of central Dugong Shoals; this area suffered a significant natural death event in the early 1990s; ~20% live hard coral cover; dominated by small massive and sub-massive corals | | 115.45084 | GPS | GDA94 | Direct | MBI/COR_021- 20061218 | | 18/12/2006 |
| | COR_021T1 | | Dugong Reef | PIO | Reef (high relief) | -1.4 | Coral reef (Poritidae) medium | A scattered coral reef area with significant rubble zone; located on the northern edge of central Dugong Shoals; this area suffered a significant natural death event in the early 1990s; ~20% live hard coral cover; dominated by small massive and sub-massive corals | | 115.45127 | GPS | GDA94 | Direct | MBI/COR_021- 20061218 | | 18/12/2006 |
| MBIMPA | COR_021T2 | MBI_0582 | Central Dugong Reef | PIO | Reef (high relief) | -1.4 | Coral reef (Poritidae) medium | A scattered coral reef area with significant rubble zone; located on the northern edge of central Dugong Shoals; this area suffered a significant natural death event in the early 1990s; ~20% live hard coral cover; dominated by small massive and sub-massive corals | | 115.45097 | GPS | GDA94 | Direct | MBI/COR_021- 20061218 | | 18/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------|-----------|-----------------------|-------|----------------------------------|---|-----------|-----------|----------|-------|---------------------------|--------------------------|----------|------------|
| | COR_021T2 | | Dugong Reef | | Reef (high relief) | -1.4 | Coral reef (Poritidae) medium | A scattered coral reef area with significant rubble zone; located on the northern edge of central Dugong Shoals; this area suffered a significant natural death event in the early 1990s; ~20% live hard coral cover; dominated by small massive and sub-massive corals | | 115.45144 | GPS | GDA94 | Direct | MBI/COR_021- 20061218 | | 18/12/2006 |
| | COR_021T3 | | Dugong Reef | | Reef (high relief) | -1.4 | Coral reef (Poritidae) medium | A scattered coral reef area with significant rubble zone; located on the northern edge of central Dugong Shoals; this area suffered a significant natural death event in the early 1990s; ~20% live hard coral cover; dominated by small massive and sub-massive corals | | 115.45108 | | | Direct | MBI/COR_021- 20061218 | | 18/12/2006 |
| MBIMPA | COR_021T3 | MBI_0585 | Central Dugong Reef | PIO | Reef (low relief) | -1.4 | Coral reef (Poritidae) medium | A scattered coral reef area with significant rubble zone; located on the northern edge of central Dugong Shoals; this area suffered a significant natural death event in the early 1990s; ~20% live hard coral cover; dominated by small massive and sub-massive corals | -20.90026 | 115.45154 | GPS | GDA94 | Direct | MBI/COR_021- 20061218 | | 18/12/2006 |
| MBIMPA | COR_022T1 | MBI_0586 | West Dugong Reef | PIO | Reef (low relief) | -0.4 | Coral reef (Faviidae) sparse | A scattered coral reef area with significant areas of turf covered coral rubble zones; live coral hard cover was ~10%; small massive poritids and favids eg. Favia, favites and goniopora; turf algae covered reef pavement and rubble was the dominant substrate | | 115.44035 | GPS | GDA94 | Direct | MBI/COR_022- 20061218 | | 18/12/2006 |
| MBIMPA | COR_022T1 | MBI_0587 | West Dugong Reef | PIO | Reef (low relief) | -0.4 | Coral reef (Faviidae) sparse | A scattered coral reef area with significant areas of turf covered coral rubble zones; live coral hard cover was ~10%; small massive poritids and favids eg. Favia, favites and goniopora; turf algae covered reef pavement and rubble was the dominant substrate | | 115.43988 | GPS | GDA94 | Direct | MBI/COR_022- 20061218 | | 18/12/2006 |
| MBIMPA | COR_022T2 | MBI_0588 | West Dugong Reef | PIO | Reef (low relief) | -0.4 | Coral reef (Faviidae) sparse | A scattered coral reef area with significant areas of turf covered coral rubble zones; live coral hard cover was ~10%; small massive poritids and favids eg. Favia, favites and goniopora; turf algae covered reef pavement and rubble was the dominant substrate | | 115.44046 | | GDA94 | Direct | MBI/COR_022- 20061218 | | 18/12/2006 |
| MBIMPA | COR_022T2 | MBI_0589 | West Dugong Reef | PIO | Reef (low relief) | -0.4 | Coral reef (Faviidae) sparse | A scattered coral reef area with significant areas of turf covered coral rubble zones; live coral hard cover was ~10%; small massive poritids and favids eg. Favia, favites and goniopora; turf algae covered reef pavement and rubble was the dominant substrate | | 115.44001 | GPS | GDA94 | Direct | MBI/COR_022- 20061218 | | 18/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|----------------------|----------|----------------------|-----------|----------------------|-------|------------------------------------|---|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| | | | West Dugong Reef | | Reef (low relief) | -0.4 | Coral reef (Faviidae) sparse | A scattered coral reef area with significant areas of turf covered coral rubble zones; live coral hard cover was ~10%; small massive poritids and favids eg. Favia, favites and goniopora; turf algae covered reef pavement and rubble was the dominant substrate | -20.89570 | | | GDA94 | Direct | MBI/COR_022- 20061218 | | 18/12/2006 |
| MBIMPA | | | West Dugong Reef | | relief) | -0.4 | Coral reef (Faviidae) sparse | A scattered coral reef area with significant areas of turf covered coral rubble zones; live coral hard cover was ~10%; small massive poritids and favids eg. Favia, favites and goniopora; turf algae covered reef pavement and rubble was the dominant substrate | -20.89580 | 115.44017 | GPS | GDA94 | Direct | MBI/COR_022- 20061218 | | 18/12/2006 |
| MBIMPA | K_001 | MBI_0592 | South Dugong Reef | PIO | Reef (low relief) | -9.0 | Coral reef (mixed) sparse | Rubble, rock with sparse mixed corals | -20.90769 | 115.46463 | GPS | GDA94 | | MSP/MBI/DDV#11- 20061217 | AKE | 18/12/2006 |
| MBIMPA | K_002 | MBI_0593 | South Dugong Reef | PIO | | -2.0 | Coral reef (Acroporidae) sparse | Mostly coral, staghorn and plate <i>Acropora</i> , some dead coral and algae, some rock substrate, quite a lot of broken coral | -20.91038 | 115.46023 | GPS | GDA94 | Direct | No Video | AKE | 18/12/2006 |
| | | | South Dugong Reef | | relief) | -2.0 | Coral reef (Acroporidae) sparse | Mostly rubble and dead coral, scattered live coral (mostly hard coral) <i>Acropora</i> small amount of algae | | 115.45723 | | GDA94 | Direct | No Video | AKE | 18/12/2006 |
| MBIMPA | | | South Dugong Reef | | relief) | -3.0 | Coral reef (Acroporidae) sparse | Staghorn and plate <i>Acropora</i> , many other corals and a lot of broken coral | -20.91476 | 115.46230 | GPS | GDA94 | Direct | No Video | AKE | 18/12/2006 |
| MBIMPA | K_005 | MBI_0596 | South Dugong Reef | PIO | Reef (low relief) | -12.0 | Reef/turf algae | Mostly bare substrate with rocks a few soft corals | -20.91550 | 115.46894 | GPS | GDA94 | video | MSP/MBI/DDV#11- 20061217 | AKE | 18/12/2006 |
| MBIMPA | K_006 | MBI_0597 | South Dugong Reef | PIO | Reef (low relief) | -14.0 | Reef/turf algae | Sand, some algae and a few rocks | -20.91941 | 115.47060 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#11- 20061217 | AKE | 18/12/2006 |
| MBIMPA | K_007 | MBI_0598 | South Dugong Reef | PIO | Reef (low relief) | -9.0 | Reef/turf algae | Sand, rubble, rock, some soft coral | -20.92055 | 115.46838 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#11- 20061217 | AKE | 18/12/2006 |
| MBIMPA | K_008 | MBI_0599 | South Dugong Reef | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Sand and pavement, scattered macroalgae, some corals, mostly algae | -20.92195 | 115.46458 | GPS | GDA94 | Direct | No Video | AKE | 18/12/2006 |
| MBIMPA | K_009 | MBI_0600 | South Dugong Reef | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) sparse | Mostly sand with pavement and algae, scattered low density corals, some boulders | -20.92346 | 115.45864 | GPS | GDA94 | Direct | No Video | AKE | 18/12/2006 |
| MBIMPA | K_010 | MBI_0601 | South Dugong Reef | PIO | | -7.5 | Macroalgae (Phaeophyta) sparse | Mostly bare substrate with rocks, some soft corals, some macroalgae | -20.92614 | 115.46400 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#11- 20061217 | AKE | 18/12/2006 |
| MBIMPA | L_001 | MBI_0602 | Batman Reef | PIO | / | -2.0 | Coral reef (rubble) | Depth -2-3m, rubble with scattered coral, low relief | -20.95045 | 115.46756 | GPS | GDA94 | | No Video | AKE | 18/12/2006 |
| MBIMPA | L_002 | MBI_0603 | Batman Reef | PIO | | -5.0 | Coral reef (rubble) | Coral rubble, sparse small corals | -20.94610 | 115.47064 | GPS | GDA94 | Direct | No Video | AKE | 18/12/2006 |
| MBIMPA | Lipids/dugon g2#1 | MBI_0604 | Dugong Reef | PIO | | | Coral reef (mixed) medium | Mixed corals medium density, good cover. | -20.89983 | 115.46092 | GPS | GDA94 | Direct | No Video | | 18/12/2006 |
| MBIMPA | | MBI_0605 | Dugong Reef | PIO | | | Coral reef (mixed) | Mixed corals medium density, good cover. | -20.89984 | 115.46098 | GPS | GDA94 | Direct | No Video | | 18/12/2006 |
| MBIMPA | | MBI_0606 | Dugong Reef | PIO | | | Coral reef (mixed) medium | Mixed corals medium density, good cover. | -20.89991 | 115.46098 | GPS | GDA94 | Direct | No Video | | 18/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-------------|-----------|----------------------|-------|------------------------------------|---|-----------|-----------|----------|-------|---------------------------|----------------------|----------|------------|
| MBIMPA | S_012 | | Dugong Reef | | relief) | -5.0 | Coral reef (mixed) medium | Very diverse coral cover | -20.90266 | 115.46300 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_013 | MBI_0608 | Dugong Reef | PIO | Reef (high relief) | -6.0 | Coral reef (Acroporidae) dense | More aborescent <i>Acropora</i> , good coral cover | -20.89971 | 115.46096 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_014 | MBI_0609 | Dugong Reef | PIO | Reef (high relief) | -6.0 | Coral reef (mixed) medium | Northern extent of dugong reef, good coral cover | -20.89900 | 115.46127 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_015 | MBI_0610 | Dugong Reef | PIO | Reef (low relief) | -7.0 | Macroalgae (Phaeophyta) sparse | Macroalgae cover with scattered corals | -20.89510 | 115.45824 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_016 | MBI_0611 | Dugong Reef | PIO | Reef (low relief) | -5.5 | Coral reef (rubble) | Acropora rubble, recent coral rubble | -20.89609 | 115.45707 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_017 | MBI_0612 | Dugong Reef | PIO | Reef (low relief) | -5.5 | Coral reef (rubble) | Solid recent coral rubble | -20.89651 | 115.45575 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_018 | MBI_0613 | Dugong Reef | PIO | Reef (low relief) | -4.7 | Coral reef (rubble) | Acropora rubble | -20.89840 | 115.45439 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_019 | MBI_0614 | Dugong Reef | PIO | Reef (low relief) | -3.8 | Coral reef (Acroporidae) dense | 60% live cover, <i>Porites</i> bommies | -20.89975 | 115.45381 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_020 | MBI_0615 | Dugong Reef | PIO | Reef (low relief) | -4.0 | Coral reef (rubble) | Acropora rubble, <10% live cover | -20.89920 | 115.45206 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_021 | MBI_0616 | Dugong Reef | PIO | Reef (low relief) | -3.3 | Coral reef (mixed) medium | 30% live corals, | -20.90018 | 115.45106 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_022 | MBI_0617 | Dugong Reef | PIO | Reef (low relief) | -2.0 | Coral reef (mixed) sparse | <20% live coral cover, rubble covered in turf algae | -20.90234 | 115.45027 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_023 | MBI_0618 | Dugong Reef | PIO | Reef (low relief) | -2.0 | Coral reef (mixed) sparse | About 10-15% coral, some soft coral, macroalgae turf with rubble | -20.90343 | 115.45503 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_024 | MBI_0619 | Dugong Reef | PIO | Reef (low relief) | -2.0 | Coral reef (Acroporidae) medium | Plate acroporids, about 20% live coral cover, coral rubble | -20.90421 | 115.45942 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_025 | MBI_0620 | Dugong Reef | PIO | Reef (high relief) | -2.0 | Coral reef (mixed) medium | 40% live coral cover, coral rubble | -20.90441 | 115.46020 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_026 | MBI_0621 | Dugong Reef | PIO | Reef (high relief) | -3.5 | Coral reef (mixed) dense | Echinopora, >60% live coral cover, areas of rubble | -20.90460 | 115.46102 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_027 | MBI_0622 | Dugong Reef | PIO | Reef (high relief) | -3.5 | Coral reef (Acroporidae) dense | 60-70% coral cover with rubble areas of <i>Acropora</i> | -20.90052 | 115.45644 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_028 | MBI_0623 | Dugong Reef | PIO | Reef (low relief) | -4.5 | Coral reef (rubble) | Coral rubble, <5% cover, some small favids and poritids | -20.89855 | 115.45178 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_029 | MBI_0624 | Dugong Reef | PIO | Reef (low relief) | -2.0 | Coral reef (rubble) | Dead plate acroporids, 80% acroporid plates <1% live coral cover, coral rubble, some COTS | -20.89618 | 115.44421 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_030 | MBI_0625 | Dugong Reef | PIO | Reef (low relief) | -2.0 | Coral reef (rubble) | Staghorn rubble with turf algae, coral rubble, some fungids | -20.89537 | 115.44022 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_031 | MBI_0626 | Dugong Reef | PIO | Reef (low relief) | -3.0 | Coral reef (rubble) | Staghorn rubble, occasional live favid, <2% coral | -20.89505 | 115.43797 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_032 | MBI_0627 | Dugong Reef | PIO | Reef (high relief) | -2.0 | Coral reef (Faviidae) sparse | Old dead plates, coral with turf alge on it, small favids and other recent recruits, COTS | -20.90018 | 115.43683 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------|-----------|-----------------------|-------|-----------------------------------|--|-----------|-----------|----------|-------|---------------------------|--------------------------|----------|------------|
| MBIMPA | S_033 | MBI_0628 | Dugong Reef | PIO | Reef (low relief) | -2.0 | Reef/turf algae | Dead coral, algae turf and small macroalgae, scattered live favids | -20.90661 | 115.43711 | | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| | S_034 | | | | Reef (low relief) | -3.0 | Macroalgae (Phaeophyta) sparse | Scattered dead coral, macroalgae < 10%, odd live coral | | 115.43690 | | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_035 | MBI_0630 | Dugong Reef | PIO | Reef (low relief) | -2.5 | Macroalgae (Phaeophyta) sparse | Macroalgae with coral rubble and pavement | -20.90888 | 115.44895 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_036 | MBI_0631 | Dugong Reef | PIO | Reef (low relief) | | Coral reef (rubble) | Acropora rubble, dead <i>Acropora</i> plates <5% cover, turf on dead corals | -20.90366 | 115.44984 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | S_037 | MBI_0632 | Dugong Reef | PIO | Reef (low relief) | | Coral reef (rubble) | Coral rubble, dead corals, live cover <10% | -20.90490 | 115.45528 | GPS | GDA94 | Direct | No Video | KBA | 18/12/2006 |
| MBIMPA | COR_023T1 | MBI_0633 | South Batman Reef | PIO | Reef (high relief) | -2.2 | Coral reef (Poritidae) medium | A scatter patch of coral reef; comprised of mainly turf algae covered rubble and reef pavement; live hard coral cover was ~30%; mainly massive and sub-massive poritids; other hard corals were encrusting montiporids and branching poritids and acroporids | | 115.46517 | GPS | GDA94 | Direct | MBI/COR_023- 20061219 | | 19/12/2006 |
| MBIMPA | COR_023T1 | MBI_0634 | South Batman Reef | PIO | Reef (high relief) | -2.2 | Coral reef (Poritidae) medium | A scatter patch of coral reef; comprised of mainly turf algae covered rubble and reef pavement; live hard coral cover was ~30%; mainly massive and sub-massive poritids; other hard corals were encrusting montiporids and branching poritids and acroporids | | 115.46569 | GPS | GDA94 | Direct | MBI/COR_023- 20061219 | | 19/12/2006 |
| MBIMPA | COR_023T2 | MBI_0635 | South Batman Reef | PIO | Reef (high relief) | -2.2 | Coral reef (Poritidae) medium | A scatter patch of coral reef; comprised of mainly turf algae covered rubble and reef pavement; live hard coral cover was ~30%; mainly massive and sub-massive poritids; other hard corals were encrusting montiporids and branching poritids and acroporids | | 115.46515 | GPS | GDA94 | Direct | MBI/COR_023- 20061219 | | 19/12/2006 |
| | _ | _ | South Batman Reef | | relief) | -2.2 | Coral reef (Poritidae) medium | A scatter patch of coral reef; comprised of mainly turf algae covered rubble and reef pavement; live hard coral cover was ~30%; mainly massive and sub-massive poritids; other hard corals were encrusting montiporids and branching poritids and acroporids | | 115.46567 | GPS | GDA94 | Direct | MBI/COR_023- 20061219 | | 19/12/2006 |
| MBIMPA | COR_023T3 | MBI_0637 | South Batman Reef | PIO | Reef (high relief) | -2.2 | Coral reef (Poritidae) medium | A scatter patch of coral reef; comprised of mainly turf algae covered rubble and reef pavement; live hard coral cover was ~30%; mainly massive and sub-massive poritids; other hard corals were encrusting montiporids and branching poritids and acroporids | | 115.46518 | GPS | GDA94 | Direct | MBI/COR_023- 20061219 | | 19/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------|-----------|--------------------|-------|-----------------------------------|---|-----------|-----------|----------|-------|---------------------------|--------------------------|----------|------------|
| | | | South Batman Reef | | relief) | -2.2 | Coral reef (Poritidae) medium | A scatter patch of coral reef; comprised of mainly turf algae covered rubble and reef pavement; live hard coral cover was ~30%; mainly massive and sub-massive poritids; other hard corals were encrusting montiporids and branching poritids and acroporids | -20.96057 | 115.46567 | GPS | GDA94 | Direct | MBI/COR_023- 20061219 | | 19/12/2006 |
| | | | North Batman Reef | | relief) | -2.5 | Coral reef (Poritidae) medium | Three discrete poritid bommies in an area of bommies; sand on reef pavement in between the bommies; ~50% live hard coral cover; some small favids scattered throughout; turf algae and rubble areas present; relatively shallow site; sheltered from long-period swells | | 115.46285 | GPS | GDA94 | Direct | MBI/COR_024- 20061219 | | 19/12/2006 |
| MBIMPA | COR_024B2 | MBI_0640 | North Batman Reef | PIO | Reef (high relief) | -2.5 | Coral reef (Poritidae) medium | Three discrete poritid bommies in an area of bommies; sand on reef pavement in between the bommies; ~50% live hard coral cover; some small favids scattered throughout; turf algae and rubble areas present; relatively shallow site; sheltered from long-period swells | -20.95157 | 115.46258 | GPS | GDA94 | Direct | MBI/COR_024- 20061219 | | 19/12/2006 |
| MBIMPA | COR_024B3 | MBI_0641 | North Batman Reef | PIO | Reef (high relief) | -2.5 | Coral reef (Poritidae) medium | Three discrete poritid bommies in an area of bommies; sand on reef pavement in between the bommies; ~50% live hard coral cover; some small favids scattered throughout; turf algae and rubble areas present; relatively shallow site; sheltered from long-period swells | -20.95197 | 115.46247 | GPS | GDA94 | Direct | MBI/COR_024- 20061219 | | 19/12/2006 |
| | | | South Dugong Reef | | relief) | -5.0 | Macroalgae (Phaeophyta) medium | Coral rubble, <30% live cover, turf algae, no <i>Acropora</i> , about 30% macroalgae | | 115.46573 | | GDA94 | Direct | No Video | KBA | 19/12/2006 |
| | | | Batman Reef North | | relief) | | Macroalgae (Phaeophyta) dense | 60% macroalgae cover on limestone pavement, scattered hard corals | | 115.46738 | | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| | | | Batman Reef | | relief) | | Reef/turf algae | Turf algae, some macroalgae | | 115.47591 | | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| MBIMPA | F_004 | MBI_0645 | Batman Reef | PIO | Reef (low relief) | -5.5 | Coral reef (rubble) | Acropora rubble covered in turf algae, reef pavement covered in staghorn rubble | | 115.47674 | | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| MBIMPA | F_005 | MBI_0646 | Batman Reef | PIO | Reef (low relief) | -2.5 | Macroalgae (Phaeophyta) sparse | Hard coral, occasional faviid | -20.94815 | 115.47171 | GPS | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| MBIMPA | F_006 | MBI_0647 | Batman Reef | PIO | | -2.5 | Coral reef (rubble) | Dead bommies, coral rubble, turf algae, small Porites bommies | -20.94931 | 115.46675 | GPS | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| MBIMPA | F_007 | MBI_0648 | Batman Reef | PIO | | -3.0 | Coral reef (Poritidae) sparse | Scattered bommies about 50% alive, <20% live cover | -20.95077 | 115.46319 | GPS | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| MBIMPA | F_008 | MBI_0649 | Batman Reef | PIO | | -3.0 | Coral reef (Poritidae) | Few <i>Porites</i> bommies around, could be good bommies site | -20.95099 | 115.46290 | GPS | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| MBIMPA | F_009 | MBI_0650 | Batman Reef | PIO | | -3.5 | Coral reef (Poritidae) medium | Massives, 40-50% live coral cover, low diversity, sand/rubble and turf algae in between, Gorgon site, looks recently disturbed | -20.95126 | 115.46246 | GPS | GDA94 | Direct | No Video | SLO | 19/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------|-----------|----------------------|-------|------------------------------------|--|-----------|-----------|----------|-------|-----------------------|-----------------------------|----------|------------|
| | F_010 | | Batman Reef | | Reef (low relief) | -2.5 | Reef/turf algae | Occasional live favid <5% live coral cover, algal turf on dead reef structure | -20.95596 | 115.46367 | - | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| | F_011 | _ | Batman Reef | | Reef (high relief) | -3.5 | Coral reef (Poritidae) sparse | 3 small <i>Porites</i> bommies, good size about 3.5m, about 30% live coral in between | -20.95819 | 115.46368 | | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| | F_012 | MBI_0653 | Batman Reef | PIO | Reef (high relief) | -3.5 | Coral reef (mixed) medium | 50-60-70% live coral, more diversity | -20.96013 | 115.46529 | GPS | GDA94 | Direct | No Video | SLO | 19/12/2006 |
| MBIMPA | F_030 | MBI_0654 | Batman Reef | PIO | Reef (low relief) | -6.9 | Macroalgae (Phaeophyta) medium | Macroalgae 20-30%, school of trevally, limestone pavement | -20.96561 | 115.48473 | GPS | GDA94 | video | MSP/MBI/DDV#10- 20061217 | KBA | 19/12/2006 |
| MBIMPA | F_031 | | Shoals | PIO | Reef (low relief) | -5.9 | Macroalgae (Phaeophyta) medium | Macroalgae about 30%, soft corals, coral rubble | -20.98356 | 115.48434 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#10- 20061217 | KBA | 19/12/2006 |
| MBIMPA | F_032 | MBI_0656 | North Barrow Shoals | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Coral bommies, porities, <i>Acropora</i> plates, algae on top, old Porites bommies | -20.99518 | 115.48504 | GPS | GDA94 | Direct | No Video | KBA | 19/12/2006 |
| MBIMPA | F_033 | MBI_0657 | North Barrow Shoals | PIO | Reef (high relief) | | Coral reef (Acroporidae) sparse | Coral bommies, <i>Acropora</i> plates, old <i>Porites</i> (dead), soft corals | -20.99314 | 115.48429 | GPS | GDA94 | Direct | No Video | KBA | 19/12/2006 |
| MBIMPA | F_034 | MBI_0658 | North Barrow Shoals | PIO | Reef (high relief) | -3.0 | Coral reef (Poritidae) sparse | Porites, Acropora plates | -20.99432 | 115.48332 | GPS | GDA94 | Direct | No Video | KBA | 19/12/2006 |
| MBIMPA | F_035 | MBI_0659 | North Barrow Shoals | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Good <i>Porites</i> bommies | -20.99436 | 115.48278 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_036 | MBI_0660 | North Barrow Shoals | PIO | Reef (high relief) | -4.0 | Coral reef (Poritidae) sparse | Small <i>Porites</i> around, rock, macroalgae on top, some <i>Acropora</i> , some other corals | -20.99374 | 115.48132 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| | F_037 | MBI_0661 | North Barrow Shoals | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Patches of <i>Porites</i> bommies, rubble around, several bommies | -20.99431 | 115.48101 | GPS | GDA94 | Direct | No Video | KBA | 19/12/2006 |
| MBIMPA | F_038 | MBI_0662 | North Barrow Shoals | PIO | Reef (high relief) | -3.5 | Coral reef (Poritidae) sparse | Big old Porites, lots of Acropora | -20.99456 | 115.48092 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_039 | | North Barrow Shoals | PIO | Reef (high relief) | -3.5 | Coral reef (Poritidae) sparse | Porites, acroporids on top, discrete bommie, fish | -20.99499 | 115.47991 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_040 | MBI_0664 | North Barrow Shoals | PIO | Reef (low relief) | | Reef/turf algae | Rubble, sand, macroalgae <10%, pavement | -21.00700 | 115.48387 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_041 | MBI_0665 | North Barrow Shoals | PIO | Reef (low relief) | -2.0 | Macroalgae (Phaeophyta) sparse | Macroalgae 20%, sand, rubble, scattered <i>Acropora</i> , pavement | -21.01938 | 115.48715 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_042 | MBI_0666 | North Barrow Shoals | PIO | Reef (low relief) | -1.9 | Reef/turf algae | Macroalgae about 10%, limestone pavement, rubble etc | -21.01914 | 115.48131 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| | F_043 | MBI_0667 | North Barrow Shoals | PIO | Reef (low relief) | | Reef/turf algae | Macroalgae 10%, reef pavement | -21.01909 | 115.47666 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| | F_044 | MBI_0668 | North Barrow Shoals | | Reef (low relief) | -1.5 | Reef/turf algae | Macroalgae <10%, sand, some rubble, turtles present, reef pavement | -21.01659 | | | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| | F_045 | | North Barrow Shoals | PIO | Reef (low relief) | -1.5 | Sand | Coarse sand, sparse rubble, 1-2% of macroalgae, quite a few turtles | -21.01425 | 115.45834 | GPS | GDA94 | Direct | No Video | KBA | 19/12/2006 |
| | F_046 | MBI_0670 | North Barrow Shoals | | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Coarse sand, sparse rubble, 20% macroalgae, lots of turtles | -21.02211 | 115.45664 | | GDA94 | Direct | No Video | KBA | 19/12/2006 |
| MBIMPA | F_047 | MBI_0671 | North Barrow Shoals | PIO | Reef (low relief) | -1.7 | Sand | Turf algae, some macroalgae <5%, some rubble, coarse sand, turtles everywhere | -21.03099 | 115.45303 | GPS | GDA94 | Direct | No Video | KBA | 19/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|------------------------------|-----------|-----------------------|-------|-------------------------------------|---|-----------|-----------|----------|-------|---------------------------|-----------------------------|----------|------------|
| MBIMPA | F_048 | _ | North Barrow Shoals | PIO | Reef (low relief) | -1.2 | Reef/turf algae | Sand, rubble, macroalgae, scattered corals, rocks | -21.02888 | 115.46482 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_049 | MBI_0673 | North Barrow Shoals | PIO | Reef (low relief) | -1.9 | Coral reef (rubble) | Corals <5%, macroalgae <10%, scattered soft corals, favids, coral rubble 20-30% | -21.03068 | 115.47889 | GPS | GDA94 | Direct | No Video | KBA | 19/12/2006 |
| MBIMPA | F_050 | | North Barrow Shoals | PIO | Reef (low relief) | -5.7 | Soft corals (Alcyoniidae) sparse | Soft corals, hard corals about 20%, coral rubble, Porites, macroalgae | -21.03004 | 115.48726 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#10- 20061217 | KBA | 19/12/2006 |
| MBIMPA | F_051 | | North Barrow Shoals | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | Sand, rubble, macroalgae about 30%, some small corals | -21.03005 | 115.48446 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_052 | | North Barrow Shoals | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | Coral rubble, sand, macroalgae 20-30%, scattered coral | -21.01584 | 115.48489 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_053 | | North Barrow Shoals | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) medium | Sand rubble, macroalgae 30%, some coral | -21.00911 | 115.49214 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | F_054 | MBI_0678 | North Barrow Shoals | PIO | Reef (low relief) | -10.7 | Macroalgae (Phaeophyta) sparse | Coarse sand, rubble, some macroalgae | -21.00775 | 115.49418 | GPS | GDA94 | Drop down video | MSP/MBI/DDV#10- 20061217 | KBA | 19/12/2006 |
| MBIMPA | L_003 | MBI_0679 | Batman Reef | PIO | Reef (low relief) | -5.0 | Coral reef (rubble) | Coral rubble, small amount of algae, no corals observed | -20.94564 | 115.47505 | GPS | GDA94 | | No Video | AKE | 19/12/2006 |
| MBIMPA | L_004 | MBI_0680 | Batman Reef | PIO | / | -14.0 | Reef/turf algae | Bare sand/rubble, no algae, no coral | -20.94583 | 115.47756 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | L_005 | MBI_0681 | Batman Reef | PIO | | -13.0 | Reef/turf algae | Mostly bare substrate with rocks, little algae, no corals visible | -20.94918 | 115.47996 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | L_006 | MBI_0682 | Batman Reef | PIO | | -3.0 | Coral reef (rubble) | Rubble, sand, with scattered algae | -20.95130 | 115.47480 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | L_007 | MBI_0683 | Batman Reef | PIO | | -2.0 | Coral reef (rubble) | Mainly rubble,s and, scattered algae, very sparse hard corals | -20.95352 | 115.46941 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | L_008 | MBI_0684 | Batman Reef | PIO | | -3.0 | Coral reef (Poritidae) sparse | Rock, sand bottom, lots of dead coral, scattered live hard corals, some small Porites bommies about 2-3 m across | -20.95534 | 115.46311 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | L_009 | MBI_0685 | Batman Reef | PIO | Reef (high relief) | -2.0 | Coral reef (mixed) dense | Dense, diverse coral | -20.96099 | 115.46654 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | L_010 | MBI_0686 | Batman Reef | PIO | | -3.0 | Coral reef (mixed) dense | Dense, diverse coral including Porites bommies | -20.96119 | 115.47246 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | L_011 | MBI_0687 | Batman Reef | PIO | / | -5.0 | Coral reef (rubble) | Mostly rubble and sand, no algae (or little) sparse coral, small <i>Porites</i> bommies (v/m) | -20.95851 | 115.47874 | GPS | GDA94 | Direct | No Video | AKE | 19/12/2006 |
| MBIMPA | COR_025B1 | | Northern Batman Shoals | PIO | Reef (high relief) | -1.5 | Coral reef (Poritidae) sparse | Three discrete poritid bommies selected in an area of bommies; sand, macroalgae and rubble in between bommies; ~40% live hard coral cover; mixture of other hard corals such as <i>Montipora</i> and <i>Platygyra</i> ; shallow site; sheltered from long-period swells | -20.99494 | 115.47984 | GPS | GDA94 | Direct | MBI/COR_025- 20061220 | | 20/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------------|-----------|-----------------------|-------|----------------------------------|--|-----------|-----------|----------|-------|---------------------------|--------------------------|----------|------------|
| | COR_025B2 | | Batman Shoals | | Reef (high relief) | | Coral reef (Poritidae) sparse | Three discrete poritid bommies selected in an area of bommies; sand, macroalgae and rubble in between bommies; ~40% live hard coral cover; mixture of other hard corals such as <i>Montipora</i> and <i>Platygyra</i> ; shallow site; sheltered from long-period swells | -20.99451 | 115.48091 | GPS | GDA94 | Direct | MBI/COR_025- 20061220 | | 20/12/2006 |
| | COR_025B3 | _ | Batman Shoals | | Reef (high relief) | | Coral reef (Poritidae) sparse | Three discrete poritid bommies selected in an area of bommies; sand, macroalgae and rubble in between bommies; ~40% live hard coral cover; mixture of other hard corals such as <i>Montipora</i> and <i>Platygyra</i> ; shallow site; sheltered from long-period swells | | 115.48074 | GPS | GDA94 | Direct | MBI/COR_025- 20061220 | | 20/12/2006 |
| MBIMPA | COR_026T1 | MBI_0691 | Central East Batman Shoals | PIO | Reef (high relief) | -2.7 | Coral reef (Faviidae) dense | A substantial area of hard coral just off the Barrow Shelf; ~60% live coral cover; dominated by a foliose echinoporid; other hard corals include small massive <i>Goniastrea</i> spp. And branching <i>Porites</i> spp.; and macroalgae (<i>Sargassum</i> spp., <i>Turbinaria</i> spp.) | | 115.51321 | GPS | GDA94 | Direct | MBI/COR_026- 20061220 | | 20/12/2006 |
| MBIMPA | COR_026T1 | MBI_0692 | Central East Batman Shoals | PIO | Reef (high relief) | -2.7 | Coral reef (Faviidae) dense | A substantial area of hard coral just off the Barrow Shelf; ~60% live coral cover; dominated by a foliose echinoporid; other hard corals include small massive <i>Goniastrea</i> spp. And branching <i>Porites</i> spp.; and macroalgae (<i>Sargassum</i> spp., <i>Turbinaria</i> spp.) | | 115.51316 | GPS | GDA94 | Direct | MBI/COR_026- 20061220 | | 20/12/2006 |
| MBIMPA | COR_026T2 | MBI_0693 | Central East Batman Shoals | PIO | Reef (high relief) | -2.7 | Coral reef (Faviidae) dense | A substantial area of hard coral just off the Barrow Shelf; ~60% live coral cover; dominated by a foliose echinoporid; other hard corals include small massive <i>Goniastrea</i> spp. And branching Porites spp.; and macroalgae (Sargassum spp., Turbinaria spp.) | | 115.51346 | GPS | GDA94 | Direct | MBI/COR_026- 20061220 | | 20/12/2006 |
| MBIMPA | COR_026T2 | MBI_0694 | Central East Batman Shoals | PIO | Reef (high relief) | -2.7 | Coral reef (Faviidae) dense | A substantial area of hard coral just off the Barrow Shelf; ~60% live coral cover; dominated by a foliose echinoporid; other hard corals include small massive <i>Goniastrea</i> spp. And branching Porites spp.; and macroalgae (Sargassum spp., Turbinaria spp.) | | 115.51350 | GPS | GDA94 | Direct | MBI/COR_026- 20061220 | | 20/12/2006 |
| MBIMPA | COR_026T3 | MBI_0695 | Central East Batman Shoals | PIO | Reef (high relief) | -2.7 | Coral reef (Faviidae) dense | A substantial area of hard coral just off the Barrow Shelf; ~60% live coral cover; dominated by a foliose echinoporid; other hard corals include small massive <i>Goniastrea</i> spp. And branching <i>Porites</i> spp.; and macroalgae (<i>Sargassum</i> spp., <i>Turbinaria</i> spp.) | | 115.51379 | GPS | GDA94 | Direct | MBI/COR_026- 20061220 | | 20/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|----------------------------------|-----------|-----------------------|-------|-----------------------------------|--|-----------|-----------|----------|-------|---------------------------|-----------------------------|----------|------------|
| MBIMPA | _ | | Central East Batman Shoals | | Reef (high relief) | -2.7 | Coral reef (Faviidae) dense | A substantial area of hard coral just off the Barrow Shelf; ~60% live coral cover; dominated by a foliose echinoporid; other hard corals include small massive <i>Goniastrea</i> spp. And branching <i>Porites</i> spp.; and macroalgae (<i>Sargassum</i> spp., <i>Turbinaria</i> spp.) | | 115.51387 | | GDA94 | Direct | MBI/COR_026- 20061220 | | 20/12/2006 |
| MBIMPA | G_001 | MBI_0697 | Central Barrow Shoals | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Some corals, <i>Porites</i> bommies, coral rubble | -21.03857 | 115.48721 | GPS | GDA94 | | MSP/MBI/DDV#10- 20061217 | KBA | 20/12/2006 |
| MBIMPA | G_002 | MBI_0698 | Central Barrow Shoals | PIO | Reef (high relief) | | Coral reef (mixed) sparse | Coral bommies, scattered corals about 20%, plus 20% macroalgae | -21.03868 | 115.48707 | GPS | GDA94 | | MSP/MBI/DDV#10- 20061217 | KBA | 20/12/2006 |
| MBIMPA | G_003 | MBI_0699 | | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Coral bommies | -21.03959 | 115.48510 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_004 | MBI_0700 | | PIO | Reef (high relief) | | Coral reef (Poritidae) medium | Coral bommies, good coral cover, quite diverse | -21.04017 | 115.48430 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_005 | MBI_0701 | | PIO | Reef (high relief) | | Coral reef (mixed) medium | Quite good live coral cover | -21.04037 | 115.48364 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_006 | MBI_0702 | Central Barrow Shoals | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Coral bommies, other hard corals | -21.04090 | 115.48221 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_007 | MBI_0703 | Central Barrow Shoals | PIO | Reef (high relief) | | Coral reef (mixed) medium | Coral bommies, coral rubble in between, 40%, 30% large corals, rest sand | -21.04134 | 115.47944 | GPS | GDA94 | Direct | No Video | RCO | 20/12/2006 |
| MBIMPA | G_008 | MBI_0704 | Central Barrow Shoals | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | Sand/rubble, 30-40% macroalgae, scattered rocks covered in turf algae | -21.04133 | 115.47374 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_009 | MBI_0705 | Central Barrow Shoals | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | Rubble, some acropid plates, macroalgae 25%, occasional coral | -21.04238 | 115.46959 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_010 | MBI_0706 | Central Barrow Shoals | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | Rubble, sand, macroalgae 10% | -21.04232 | 115.46485 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_011 | MBI_0707 | | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | Macroalgae about 30%, rubble, some corals, scattered Porites | -21.04738 | 115.47262 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_012 | MBI_0708 | | PIO | Reef (low relief) | -3.0 | Coral reef (mixed) sparse | Good transect | -21.04646 | 115.47041 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-----------------------------|-----------|----------------------|-------|-----------------------------------|---|-----------|-----------|----------|-------|-----------------------|----------------------|----------|------------|
| MBIMPA | G_013 | MBI_0709 | Central Barrow Shoals | PIO | Reef (low relief) | -4.0 | Coral reef (mixed) sparse | Mixed corals, Galaxea, Porites, acropids | -21.04680 | 115.47026 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_014 | MBI_0710 | Central Barrow Shoals | PIO | Reef (low relief) | -2.0 | Coral reef (mixed) medium | 10%macroalgae, 20% live coral cover | -21.04769 | 115.47081 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_015 | MBI_0711 | Central Barrow Shoals | PIO | Reef (low relief) | -4.0 | Coral reef (mixed) medium | Good coral cover | -21.04684 | 115.47189 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_016 | MBI_0712 | Central Barrow Shoals | PIO | Reef (low relief) | -5.3 | Macroalgae (Phaeophyta) medium | Rubble, sand, macroalgae 20-30%, no coral | -21.04930 | 115.47637 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_017 | MBI_0713 | Central Barrow Shoals | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) medium | Rubble/sand, macroalgae 30-40%, scattered hard and soft corals | -21.05349 | 115.48194 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_018 | MBI_0714 | Central Barrow Shoals | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) medium | Rubble sand, macroalgae 30-40%, scattered hard and soft corals | -21.05362 | 115.48198 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_019 | MBI_0715 | Central Barrow Shoals | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) medium | Some rocks, macroalgae 40-50%, sand/rubble, scattered corals, little massives | -21.05751 | 115.48649 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_020 | MBI_0716 | Central Barrow Shoals | PIO | Reef (low relief) | -4.0 | Macroalgae (Phaeophyta) medium | Sand, rubble, macroalgae 30%, scattered hard corals | -21.05722 | 115.47712 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_021 | MBI_0717 | Central Barrow Shoals | PIO | Reef (low relief) | -4.5 | Macroalgae (Phaeophyta) medium | Sand/rubble, macroalgae 20-30%, scattered coral | -21.05586 | 115.47070 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_022 | MBI_0718 | Central Barrow Shoals | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) sparse | Macroalgae 15-20%, scattered corals, sand/rubble mainly | -21.05737 | 115.48015 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_023 | MBI_0719 | Central Barrow Shoals | PIO | Reef (low relief) | -5.0 | Macroalgae (Phaeophyta) medium | 40% rubble, 30% sand, 30% macroalgae | -21.05907 | 115.48827 | GPS | GDA94 | Direct | No Video | RCO | 20/12/2006 |
| MBIMPA | G_024 | MBI_0720 | Central Barrow Shoals | PIO | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) sparse | Sand/rubble, macroalgae about 10-20%, rocks, sponges, scattered corals | -21.06311 | 115.49319 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_025 | MBI_0721 | Central Barrow Shoals | PIO | Reef (low relief) | | Macroalgae (Phaeophyta) sparse | 40% sand, 20% rubble, macroalgae <30%, some hard corals | -21.06623 | 115.49760 | GPS | GDA94 | Direct | No Video | RCO | 20/12/2006 |
| MBIMPA | G_026 | MBI_0722 | | PIO | Reef (high relief) | | Coral reef (Poritidae) sparse | Scattered coral bommies, small low corals between, sand/rubble | -21.06676 | 115.49756 | GPS | GDA94 | Direct | No Video | RCO | 20/12/2006 |

| MPRSWG | Infield No | Site No | Location | Bioregion | Substrate | Depth | Functional habitat Type | Biological assemblage | Lat deg | Long deg | GPS type | Datum | Observation method | Video tape number | Recorder | Date |
|--------|------------|----------|-----------------------------|-----------|----------------------|-------|-----------------------------------|---|-----------|-----------|----------|-------|-----------------------|----------------------|----------|------------|
| MBIMPA | G_027 | MBI_0723 | Central Barrow Shoals | | Reef (low relief) | -6.0 | Macroalgae (Phaeophyta) medium | Macroalgae 30-40% | -21.06100 | 115.49841 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_028 | MBI_0724 | Central Barrow Shoals | | Reef (low relief) | -5.5 | Reef/turf algae | Live corals, macroalgae <10%, rubble, sand, | -21.05494 | 115.49545 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_029 | MBI_0725 | Central Barrow Shoals | | Reef (low relief) | -5.7 | Macroalgae (Phaeophyta) medium | Sand/rubble, macroalgae <50% , some corals, rocks | -21.05069 | 115.49342 | GPS | GDA94 | Direct | No Video | AKE | 20/12/2006 |
| MBIMPA | G_030 | MBI_0726 | Central Barrow Shoals | | Reef (high relief) | -5.2 | Coral reef (Poritidae) medium | Porites bommies, with corals and lots of fish | -21.06396 | 115.50576 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_031 | MBI_0727 | Central Barrow Shoals | | Reef (low relief) | | Macroalgae (Phaeophyta) medium | 30% macroalgae | -21.06560 | 115.50526 | GPS | GDA94 | Direct | No Video | RCO | 20/12/2006 |
| MBIMPA | G_032 | MBI_0728 | Central Barrow Shoals | | Reef (high relief) | | Coral reef (Poritidae) medium | Coral bommies, scattered, about 30% coral in between | -21.07636 | 115.51269 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_033 | MBI_0729 | Central Barrow Shoals | | Reef (high relief) | | Coral reef (mixed) medium | Coral rubble mainly with some macroalgae, scattered corals 30%, some <i>Porites</i> | -21.07660 | 115.51344 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_034 | MBI_0730 | | | Reef (high relief) | | Coral reef (Poritidae) dense | Dense corals, large bommies, reasonable monitoring site | -21.07719 | 115.51521 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |
| MBIMPA | G_035 | MBI_0731 | Central Barrow Shoals | | Reef (high relief) | | Coral reef (Poritidae) medium | Coral bommies, scattered, about 30% coral in between | -21.08162 | 115.51539 | GPS | GDA94 | Direct | No Video | KBA | 20/12/2006 |

List of Marine Science Program reports

Data Report Series

MSPDR 1. Preliminary assessment of coral communities at selected sites in the proposed Dampier Archipelago Marine Park. Armstrong S (2008).

MSPDR 2. Anoxic impacts at Bill's Bay, Ningaloo Marine Park associated with the 2008 coral spawning event. Armstrong SJ, Syme R (2009).

MSPDR 3. Mapping the coral reef communities of the Shark Bay marine protected areas: Data collected during the February 2008 field survey. Bancroft KP (2009).

Other Marine Science Program Reports

MSP 2006/01 Long-term monitoring program in the Montebello/Barrow Islands marine protected areas. Scoping field trip: 8-11 August 2006. Field Program Report. Bancroft KP, Simpson CJ, Long S (2006).

MSP 2006/02 Establishment of additional long-term monitoring sites for *Drupella cornus* populations in the southern section of the Ningaloo Marine Park and the Muiron and Sunday Islands Marine Management Areas. Field Program Report. Armstrong SJ (2006).

MSP 2006/03 Long-term monitoring program in the Montebello/Barrow Islands marine protected areas. Scoping field trip: 8-11 August 2006. Data Report. Bancroft KP (2006).

MSP 2006/04 Disturbance and recovery of coral communities in Bill's Bay, Ningaloo Marine Park: 2006 survey. Field Program Report. Long S (2006).

MSP 2006/05 Establishing baseline benthic community monitoring sites in the Montebello/Barrow Islands marine protected areas: 7-22 December 2006. Field Program Report. Bancroft KP, Armstrong SJ (2006).

MSP 2007/01

Bibliography of marine scientific research relevant to the Rowley Shoals Marine Park and the Mermaid Reef Marine National Nature Reserve. Data Report. Edwards A, Bancroft KP (2007).

MSP 2007/02 Current and proposed marine research projects relevant to the Rowley Shoals Marine Park and the Mermaid Reef Marine National Nature Reserve. Data Report. Edwards A, Bancroft KP (2007).

MSP 2007/03 Ningaloo Marine Park Drupella Long-term Monitoring Program: Results of the 2006 survey. Technical Report. Armstrong SJ (2007).

MSP 2007/04 Summary of the winter coral bleaching event at Ningaloo Marine Park, July 2006.
Data Report. Armstrong S, Webster F, Kendrick A, Mau R, Onton K (2007).

MSP 2007/05 Disturbance and recovery of coral communities in Bill's Bay, Ningaloo Marine Park: Field survey 16-23 October 2006. Technical and Data Report. Long S (2007).

MSP 2007/06 Bibliography of marine scientific research relevant to Perth's metropolitan marine protected areas and adjacent waters. Data Report. Lierich D, Bancroft KP (2007).

MSP 2007/07 Current and proposed marine research projects relevant to Perth's metropolitan marine protected areas and adjacent waters. Data Report. Lierich D, Bancroft KP (2007).

MSP2007/08 Disturbance history of coral communities in Bill's Bay, Ningaloo Marine Park, 1975-2007. Data Report. van Schoubroeck P, Long S (2007).

MSP 2008/01 Comparative marine biodiversity survey of the Rowley Shoals 1-17 December 2007. Metadata Report. Long S., Armstrong S., Fabricius K., Field I., Cook K., Colquhoun J., & Huisman J. (2008).







