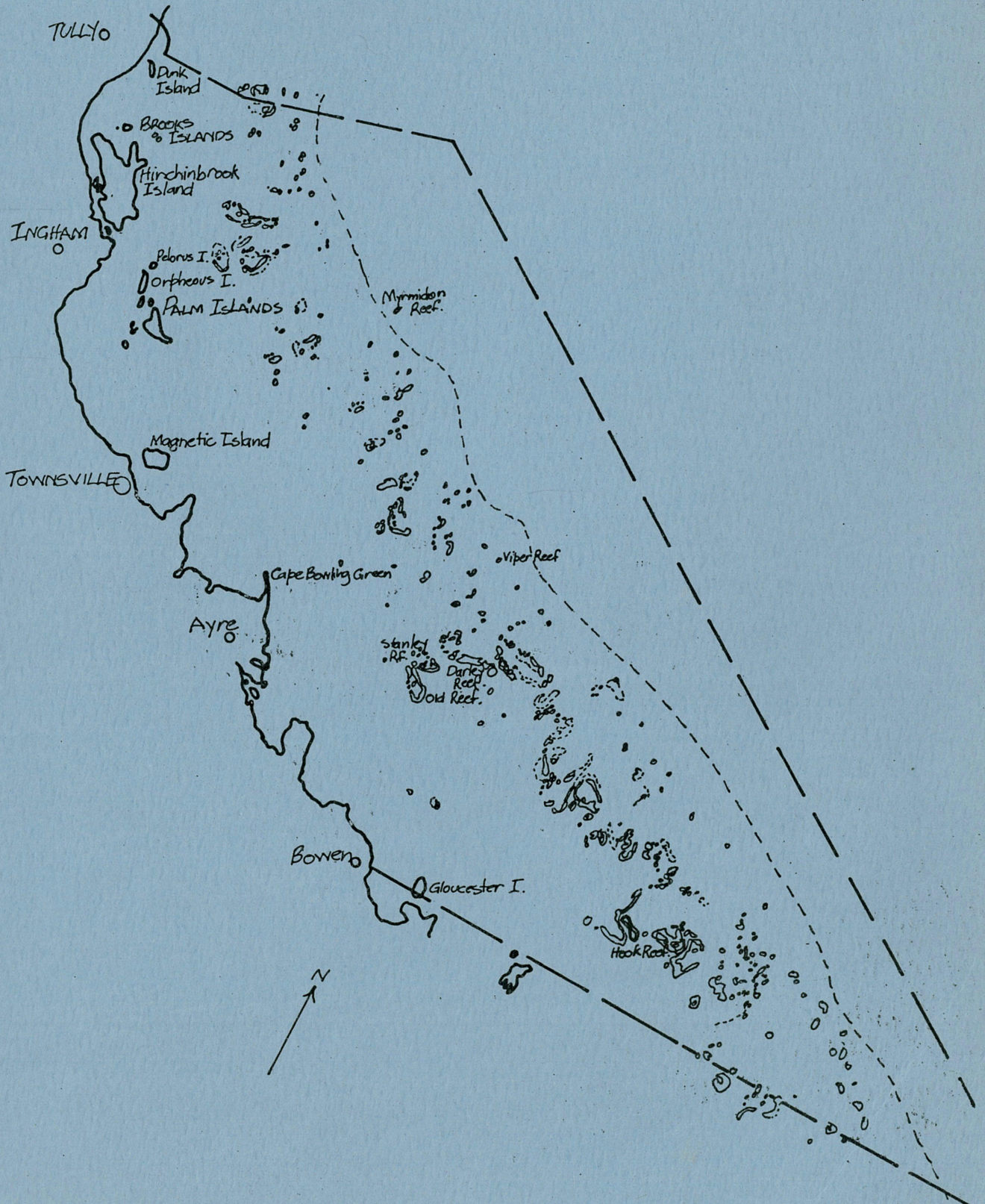


Great Barrier Reef Resource Inventory

TOWNSVILLE SECTION (18° 00' to 20° 00')



The Great Barrier Reef
Resource Inventory

TOWNSVILLE SECTION
(17° 48'S to 19° 59'S)

Prepared for
the Great Barrier Reef Marine Park Authority

by
P. Outridge, J. Gall, D. Tarte and P. Shanco
Australian Littoral Society, Brisbane

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ERRATA

Great Barrier Reef Resource Inventory, Townsville Section

June, 1983 Edition

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1.0 INTRODUCTION

The Great Barrier Reef (GBR) Region Resource Inventory is a computer-compatible information system which incorporates all known, accessible data pertaining to the natural features and patterns of human usage of the islands, cays, reefs, shoals, etc. of Australia's Great Barrier Reef Region. The Region is defined for the purposes of the Inventory as the entire area within the boundaries of the Region defined in the Schedule of the Great Barrier Reef Marine Park Act Amendment Act 1978, and an additional area in Torres Strait.

The first work on the Inventory was undertaken in January, 1982 by Gina Green, Edward Hegerl and Diane Tarte. By March 31, 1982 the first draft of the Resource Inventory for the Cairns Section of the Great Barrier Reef Marine Park had been completed and presented to the Great Barrier Reef Marine Park Authority (GBRMPA) along with the Australian Littoral Society's (ALS) recommendations for zoning the Cairns Section Marine Park.

The Inventory was updated in September, 1982 and will be updated again in the future to include the results of baseline surveys of human impact on some of the Cairns Section islands which were carried out by ALS in September-October, 1982.

A grant from Fund for Animals Ltd. Australia made it possible for Peter Outridge to begin full-time work on the Inventory for ALS in September, 1982. This involved collating data on other portions of the Great Barrier Reef not yet included within the Great Barrier Reef Marine Park.

In January, 1983 the ALS received a consultancy from GBRMPA to prepare the Resource Inventory on the reefs and islands within the remainder of the Reef Region (as defined in the Marine Park Amendments Act) not yet included within the Barrier Reef Marine Park.

For ease of data presentation and retrieval, the Resource Inventory, when completed, will be divided into six geographical areas:

1. Torres Strait Section (9° 05'S - 10° 41'S)
2. Far Northern Section (10° 41'S - approx. 14° 40'S)
3. Cairns Section (approx. 14° 40'S - 17°S 48'E)
4. Townsville Section (17°S 48'E - 20°S)
5. Whitsunday Islands Section (20°S - 22° 30'S)
6. Capricorn-Bunker and Keppel Groups Section (22° 30'S - 24° 30'S)

The following file contains the Inventory of the Townsville Section, extending approximately from Tully to Bowen.

2.0 DESCRIPTION OF THE GBR RESOURCE INVENTORY

The Resource Inventory is made up of three types of information pro formas, brief descriptions of which are furnished below:

- Reef Pro Formas (also used for shoals and banks), containing 65 categories, each with an X prefix, for data entry and retrieval. Information contained in these pro formas relates to features below mean tide level.
- Island Pro Formas (also used for islets, cays and rocks), containing 20 information categories, each with a Y prefix. Information contained relates to features above mean tide level, including mangroves, although some rocks included have elevations below MLWN (e.g. U/N Rock 19-013-Y010).
- Resort Pro Formas, containing 51 information categories with Z prefixes, relating to tourist resorts on islands within the GBR Region.

A more detailed description of the information categories in each proforma is provided in the following section.

2.1 Pro Forma Descriptions

Reef Pro Forma

- X1. Reef: Reef code number and name, as determined by the GBR Gazetteer.
- X2. Location: Latitude and longitude co-ordinates from the Gazetteer.
- X3. Group: Determined from Admiralty Charts.
- X4. Size (ha): Reef area, from GBR Gazetteer.
- X5. Description: Geomorphological description of the reef, using the GBR Gazetteer and other published references, together with coral species recorded.
- X6. Special Features: Features, geomorphological or biological, which confer a special scientific or conservation value on the reef.

Values: The fossicking, reef fishing, other fishing, diving and sheltered anchorage values of reefs are determined from observer's reports.

- | | | | |
|----------------------------------|----------------------------|-------|------------------------------|
| X7. No | <u>fossicking value</u> | _____ | Fossicking value is |
| X8. Poor | " " | _____ | defined as the value of |
| X9. Moderate | " " | _____ | the reef for inter-tidal |
| X10. Good | " " | _____ | observation, photography |
| X11. Very good | " " | _____ | and collecting. |
| X12. Poor | <u>reef fishing value</u> | _____ | Reef fishing value is |
| X13. Moderate | " " | _____ | defined as the value of |
| X14. Good | " " | _____ | the reef for fishing for |
| X15. Very good | " " | _____ | reef species. |
| X16. <u>Other fishing values</u> | | | Includes game fishing and |
| | | | bait fishing values. |
| X17. Poor | <u>diving value</u> | _____ | Diving value is defined |
| X18. Moderate | " " | _____ | as the value of the area |
| X19. Good | " " | _____ | for underwater obser- |
| X20. Very good | " " | _____ | vation (including |
| | | | snorkelling), determined by |
| | | | observer's reports. |
| X21. No | <u>sheltered anchorage</u> | _____ | Sheltered anchorage as |
| X22. Poor | " " | _____ | formed by the reef, the |
| X23. Moderate | " " | _____ | degree of shelter being |
| X24. Good | " " | _____ | determined by observers' |
| X25. Very good | " " | _____ | reports and yachting guides. |

/...

Reef Pro Forma contd.

Usage: The four levels of usage (not, little, moderately, heavily) associated with human activities on reefs have been assigned in two ways. Firstly, they may be directly entered from observer's reports, where available. Thus, for example, an observer's report of a reef being "only rarely visited by sports fishermen" is entered as "X31. Little used by amateur fishermen"; and "not many divers go there" is entered as "X40. Moderately used by underwater observers."

The second method, which is employed in those few cases when actual usage data, but no assessment, is given in the literature, is a subjective judgment of the relative level of usage of that particular reef compared with other reefs in the area.

X26. Not	used by	<u>professional fishermen</u>	_____	Professional fisher-
X27. Little	" "	" "	_____	men are defined as
X28. Moderately	" "	" "	_____	those who are licen-
X29. Heavily	" "	" "	_____	ced to derive their
				income from fishing.
				This category encom-
				passes bait fishing by
				professionals, but
				does not include the
				crews of charter boats
				that take out recreat-
				ional fishermen.
X30. Not	used by	<u>amateur fishermen</u>	_____	Amateur fishermen are
X31. Little	" "	" "	_____	defined as those who do
X32. Moderately	" "	" "	_____	not derive the majority
X33. Heavily	" "	" "	_____	of their income from fish-
				ing and/or who are not
				licenced. This category
				includes bait fishing by
				amateur fishermen.
X34. Not	used by	<u>spearfishermen</u>	_____	Spearfishermen are defined as
X35. Little	" "	" "	_____	those using the reef only for
X36. Moderately	" "	" "	_____	spearfishing (includes both
X37. Heavily	" "	" "	_____	amateurs and professionals).
X38. Not	used by	<u>underwater observers</u>	_____	Underwater observers
X39. Little	" "	" "	_____	are defined as those
X40. Moderately	" "	" "	_____	who use the reef for
X41. Heavily	" "	" "	_____	underwater photography
				and observation, but not
				collecting or spear-
				fishing.
X42. Not	used by	<u>researchers</u>	_____	Researchers are defined as
X43. Little	" "	" "	_____	scientists (affiliated or
X44. Moderately	" "	" "	_____	individuals) engaged in study
X45. Heavily	" "	" "	_____	of any aspect of reef
				science.

/...

Reef Pro Forma contd.

X46. Not	used by	<u>reef walkers</u>	_____	Reef walkers are defined as
X47. Little	" "	" "	_____	those who are interested in
X48. Moderately	" "	" "	_____	inter-tidal observation and
X49. Heavily	" "	" "	_____	photography, but not
				collecting.
X50. Not	used by	<u>shell collectors</u>	_____	This category encom-
X51. Little	" "	" "	_____	passes both amateur and
X52. Moderately	" "	" "	_____	professional shell
X53. Heavily	" "	" "	_____	collecting.
X54. Not	used by	<u>fish collectors</u>	_____	Fish collectors are
X55. Little	" "	" "	_____	defined as amateur and
X56. Moderately	" "	" "	_____	professional aquarium
X57. Heavily	" "	" "	_____	fish collectors.
X58. Not	used by	<u>coral collectors</u>	_____	This category encom-
X59. Little	" "	" "	_____	passes both amateur
X60. Moderately	" "	" "	_____	and professional
X61. Heavily	" "	" "	_____	coral collectors.

- X62. Additional usage data: This section encompasses additional data not entered in previous usage categories including: presence of navigational lights on the reef, descriptions of the type of anchorage, the level of charter boat and game fishing activity, and general observations on human usage patterns - particularly those of Domm (1977). Information on user group visits to reefs supplied by Domm (1977) has been entered in the following categories for the Townsville Section:

<u>Inventory Entry</u>	<u>User Group Visitation Rate</u>
------------------------	-----------------------------------

(Domm, 1977)

- | | |
|--|---------------------------------|
| "more popular with user groups in this region" | : >3.0 group visits/year |
| "moderately popular with user groups in this region" | : >1.5 - <3.0 group visits/year |
| "less popular with user groups in this region" | : <1.5 group visits/year |

The visitation rate categories have been chosen such that the "more popular" category corresponds to the upper 10-20% of reefs listed by Domm (1977), "moderately popular" corresponds to the intermediate 30-40%, while "less popular" corresponds to the lower 40-60% of reefs, based on user visitation rates in each section of the GBR Region.

- X63. Historical: Historical information (both Aboriginal and European) relating to the reef. Of particular note are historical accounts of reef morphology and biota (e.g. Stanley, 1927).
- X64. Publications: Publications of relevance to the reef, which are not listed in any of the above categories, are cited here, with the full reference listed in the bibliography to this Section.
- X65. Notes: Any information not able to be categorized in the above.

Island Pro Forma

- Y1. Island: Island code number, common name (determined from Admiralty Charts and yachting guides), and any alternative names (historical and indigenous).
- Y2. Location: Latitude and longitude co-ordinates from the most recent Admiralty Charts, taken at the approximate centre of the island.
- Y3. Group: As determined from Admiralty Charts.
- Y4. Size (ha): Sources are Anon. (1966), Anon. (1974) and tenure information (see below).
- Y5. History: Both Aboriginal/Islander and European histories to the present day. Also historical scientific accounts.
- Y6. Tenure: Land tenure information from Qld. Dept. of Lands and Qld. Dept. of Mapping and Surveying. Batch and File references in this section refer to the relevant Lands Dept. files. It should be noted that the letters "S.L." and "N.C.L." refer to Special Lease and Non-Competitive Lease, respectively. "Freehold C.T." and "Freehold D.G." refer to Freehold Certificate of Title and Freehold Deed of Grant, respectively. Volume and Folio numbers following these refer to the information locations in the State Titles Offices.
- Y7. Development: Brief description of number and purposes of buildings; presence of radio stations, navigational lights, airstrips, etc.
- Y8. General features: Descriptions of geology, geomorphology, topography and vegetation, also presence or absence of coral reefs fringing the island.
- Y9. Approx. annual rainfall (mm): As calculated from Anon. (1966).
- Y10. Elevation (m): The heights of islands, etc. are as marked on the most recent Admiralty Charts. These are heights above M.H.W.S. In almost all cases they are topographic heights. In some instances they are to the top of the tree line, and are so noted in the Inventory.
On Admiralty Charts the heights of rocks and cays is usually given as a "drying height" which is the height above the chart datum. For these an approximation of the height relative to M.H.W.S. was made using the table of Tidal Levels referred to Datum of Soundings on each chart. Each table contains values for a number of locations on the chart. If no location was proximal to the rock or cay, two locations were used to provide end point values to roughly estimate the M.H.W.S.-chart datum difference at the rock or cay location.
- Y11. Local Authority: Determined from Qld. Dept. of Mapping and Survey files.
- Y12. Is camping permitted? Determined, where possible, from users' reports, QNPWS and yachting guides.

/...

Island Pro Forma contd.

- Y13. Island's scenic value (scale 0-3): Determined from observers' reports.
- Y14. Island's naturalness value (scale 0-3): Determined from recent observers' reports.
- Y15. Special biota: Includes bird and vegetation species lists and bird breeding information. Also other biota (e.g. turtles) of scientific or conservation interest.
- Y16. Rare or endangered species: Rare or endangered status determined from literature.
- Y17. Is there a jetty ? If so, the size, location and ownership details.
- Y18. Is there an anchorage not associated with the island's reef ? Description of anchorages not adjacent to fringing reefs of islands, or where islands lack fringing reefs.
- Y19. Publications: Any publications referring to the island which were not listed in any of the above categories are cited here, with a full reference listing presented in the bibliography.
- Y20. Notes: Any information not able to be categorized in the above, including location of freshwater supplies.

Resort Pro Forma

- Z1. Name of resort: Resort code number and resort name.
- Z2. Island: Name of island.
- Z3. Resort area (ha): Area covered by the leasehold or freehold title upon which the resort is situated.
- Z4. % island used: Percentage of the island's area covered by the resort's lease or freehold title.
- Z5. Tenure: Resort land tenure information, corresponding to the Y6 entry, Island Pro Forma.
- Z6. Presently held by: Owner(s) or lessee(s) of the resort.
- Z7. Changes of ownership: Sequence of ownership or leaseholders since resort was established.
- Z8. Date established: Year in which the resort first accepted guests.
- Z9. Date(s) expanded: Date(s) on which accommodation numbers or standards were upgraded.
- Z10. Initial establishment costs (\$): Costs of establishment (in \$ values at the time of commencement).
- Z11. Value of additions (\$): Costs of expansions (in \$ values at the time of expansion).
- Z12a. Max. overnight accommodation: Maximum number of overnight guests able to be accommodated.
- Z12b. Max. number day visitors: Maximum number of day visitors possible.
- Z13. Peak season: Season of highest rate of room occupancy.
- Z14. Visitor days per annum: Total number of days spent by visitors at the resort (this figure, unless otherwise noted, may include overnight guests).
- Z15. Airstrip: Dimensions of strip, and types of aircraft able to land.
- Z16. Access means & time (min.): Access means and times from nearby centres.
- Z17. Access from: Points of access from the mainland to the resort.
- Z18. Distance (km): Direct distance from nearby mainland centres to the resort.
- Z19. Staff employed: Number of full-time (and part-time) staff. The two categories are separated where data are available.

/...

Resort Pro Forma contd.Activities:

- Z20. Coral viewing
- Z21. Bushwalks
- Z22. Line fishing
- Z23. Spear fishing
- Z24. Skin diving
- Z25. Water skiing Activities which are offered by the resort to guests and visitors.
- Z26a. Sailing
- Z26b. Windsurfing
- Z27. Tennis
- Z28. Golf
- Z29. Swimming
- Z30. Glass-bottom boat
- Z31. Archery
- Z32. Horseback riding
- Z33. Air tours
- Z34. Day cruises
- Z35. Water supply: Method and capacity.
- Z36. Sewage disposal: Method and capacity.
- Z37. Garbage disposal: Method.
- Z38. Is camping permitted within resort area ? If so, any charges or number restrictions.
- Z39. Electricity source and capacity: Self-evident.
- Z40. Fuel storage: Method and capacity.
- Z41. Shoreline development: Number and size of buildings and other human constructions on the shoreline and their proximity to highest, high water spring tide level. Includes rock walls and groynes, concreted surfaces, swimming pools, helipads, etc.
- Z42. Pathways: Number and total length of pathways.
- Z43. Erosion on pathways (scale 0-3): Extent of erosion related to pathways.
- Z44. Estimated % of natural vegetation remaining in resort area: Self-evident.
- Z45. Resort-related damage outside resort area: Self-evident.
- Z46. Any other development: Any buildings or constructions not covered in above categories.
- Z47. Manager and address of resort: Self-evident.
- Z48. Telephone number of resort: Self-evident.
- Z49. Radio frequencies: Resort radio frequencies and hours of contact.
- Z50. Notes: Any information about the resort not able to be categorized in the above.
- Z51. ALS photographic number: Photographic reference number(s) in ALS collection.

2.2 Ordering of the Inventory Information

A separate pro forma entry is made in the Inventory for each reef, island and resort present in the GBR Region. The Inventory pro forma listings follow a geographic co-ordinate sequence from west to east along 1 minute intervals of latitude which are presented in a north to south order. Code numbers assigned to reefs, islands, etc. in this sequence recommence at each degree of latitude.

The co-ordinates which determine a reef's or an island's position in the Inventory are those of the approximate centre of the reef or island. In the case of fringing reefs around an island, or a group of associated reefs not fringing an island, the co-ordinates of the centre of the most north-westerly (N.W.) reef are used.

If an island has one or more fringing reefs, the island's listing immediately follows that of its reef (or reefs). This is then followed by the resort information if a resort is present on the island.

While the grouping of islands with attached reefs in this manner results in some disruption to the strict geographic order of the Inventory, it has been done to facilitate use of the information for planning by treating islands and their attached reefs as interrelated ecosystems. The geographic listing of islands has been preserved by inserting a cross-referenced note at each island's proper position in the Inventory according to its co-ordinates.

Two types of numbering system have been used to facilitate information access and usage:

- a computer-compatible code number system based on the GBR Gazetteer (which is described in section 3.0) designed for computer accession of data;

- a running number system which is purely for manual use in the printed Inventory documents. Within each GBR Section, each entry (reef, island or resort) is given a sequential number according to the position in the Inventory of its full information listing. The information that follows this number may then be accessed through either the geographic co-ordinate or alphabetical indexes. The running number recommences for each Section of the Inventory - Cairns Section, Townsville Section, etc.

The code number immediately precedes the name of the island on the same line, while the running number is given on the preceding line.

3.0 INTEGRATION OF THE RESOURCE INVENTORY AND THE GBR GAZETTEER CODE NUMBERING SYSTEMS

The Resource Inventory basically follows the naming and numbering system of the GBR Gazetteer compiled by staff of the Department of Geography, James Cook University of North Queensland. There are, however, amendments and additions to the Gazetteer system which are noted below.

3.1 Reef Code Numbers

The GBR Gazetteer provides names, position co-ordinates, descriptions and sizes for reefs, which are assigned a five-digit number code. Where more than one distinct reef fringes an island or coastal bay, etc., the Gazetteer provides co-ordinates and size data for each of the reefs, which are individually assigned a letter (A, B, etc.) after the reef name.

However, published studies on the reef systems of an island where more than one distinct reef is present often do not specify to which particular fringing reef the information applies. Where the information is specific in terms of location, it is entered under the appropriate fringing reef.

In those cases where the particular fringing reef studied is not specified, the information is included with the reef group entry in the Inventory, using the Gazetteer number. Position co-ordinates and reef areas of multiple fringing reefs (from the Gazetteer) are individually entered in the appropriate categories of the reef pro forma, with a total area given for the group of fringing reefs surrounding that particular island or headland, etc. The co-ordinates of the most northwesterly fringing reef of the group, which were used to determine the group's position in the Inventory, are also given.

An example is Orpheus Island Reefs which are listed in the Inventory under:

18-049 Orpheus (Goolboddi) Island Reefs

Position co-ordinates are entered in X2 as:

X2. A, (Pioneer Bay) (Goolboddi) 18° 36'S 146° 29'E
 B, (Hazard Bay) (Goolboddi) 18° 38'S 146° 30'E
 C, (Harrier Pt.) (Goolboddi) 18° 40'S 146° 29'E
 D, (Goolboddi) 18° 38'S 146° 30'E
 E, (Goolboddi) 18° 36'S 146° 30'E
 NW co-ordinates, 18° 36'S 146° 29'E

Reef sizes appear in X4 as:

X4. A, 120 ha
 B, 60 ha
 C, 120 ha
 D, 60 ha
 E, 120 ha
 Total, 480 ha

A similar procedure has been adopted for groups of associated reefs not attached to islands, e.g. those fringing coastal bays and headlands.

In some cases the Gazetteer omits mention of reefs which appear in the Inventory. A code number is assigned to each of these reefs by following on from the final Gazetteer number in each

degree of latitude. For example, the final Gazetteer number in the 19°-20° section is 19-229 Scribes Shoal, and Cape Cleveland Reef (the most NW unnumbered reef in 19°-20°) has been assigned the number 19-230.

3.2 Island Code Numbers

Integration of island information from the Inventory with the Gazetteer's code numbering system has proved particularly complex because:

- the Gazetteer provides code numbers for reefs, but does not make provision for associated islands,
- some islands lack fringing reefs, and
- some reefs encompass two or more islands.

However, integration has been achieved as follows:

Reefs with one associated island.

Single island-reef systems are assigned a code number by using the Gazetteer number given to the reef of that island and adding a 4-character suffix (Y___). The latter 3-number part of the code is determined by the island's position in the Inventory according to its co-ordinates, and recommences in each degree of latitude. Thus, Richards (Bedarra) Island, the most northwesterly island on the most northwesterly reef between 18° and 19°S (with its reef's Gazetteer number 18-001 and island's Inventory number 18-001-Y001) is listed in the Inventory as:

18-001-Y001 Richards (Bedarra) Island.

Reefs with two or more associated islands.

In the case of two or more islands sharing a common reef given the same Gazetteer number, code numbers are again assigned according to the island's co-ordinates. The listings follow immediately after that of the common reef, the island from which the reef derived its name first, and then the most northwesterly to the most southeasterly island. An example is Great Palm Island and two U/N islands which occur on Great Palm Island Reefs. These appear in the Inventory in the order:

18-054 - Great Palm Island Reefs, 18° 41'S 146° 35'E
 18-054-Y032 Great Palm Island, 18° 44.5'S 146° 36.3'E
 18-054-Y034 U/N Island, 18° 45.6'S 146° 41.6'E
 18-054-Y040 U/N Island, 18° 46.7'S 146° 38.6'E

Islands which lack fringing reefs.

In the case of islands which do not have attached reefs and therefore are not able to be assigned code numbers using a Gazetteer number, a number is entered in the following form:

XX-000-Y___

where XX is the degree of latitude in which the island occurs, 000 denotes the absence of a fringing reef, and Y___ is the 4-character island code described previously, determined according to the island's co-ordinates.

An example is Sand Island (19° 20.5'S, 147° 22.4'E) which appears in the Inventory as:

19-000-Y022 Sand Island.

3.3 Resort Code Numbers

Inventory listings of island tourist resorts have been assigned code numbers by using the Inventory island code number described previously, and replacing "Y" with "Z" in the 4-character suffix. Where more than one resort is present on an island, a single identifying number suffix is added. An example is the resorts of Mediterranean Holiday Village and Radical Bay Resort on Magnetic Island (19° 08.4'S 146° 49.8'E). These appear in the Inventory in the order:

18-009-Y009 Magnetic Island

18-009-Z009-1 Mediterranean Holiday Village

18-009-Z009-2 Radical Bay Resort

RESOURCE INVENTORY OF
TOWNSVILLE SECTION, 17° 48'S to
19° 59'S.

17° 48'S

[1.]

- X1. 17-049 U/N
- X2. 17° 48'S 146° 06'E
- X4. 120 ha
- X5. Coastal fringing reef.

17° 49'S

[2.]

- X1. 17-050 U/N
- X2. 17° 50'S 146° 06'E
- X4. 60 ha
- X5. Coastal fringing reef.

17° 50'S

17° 51'S

[3.]

- X1. 17-052 U/N
- X2. 17° 52'S 146° 07'E
- X4. 250 ha
- X5. Coastal fringing reef.

17° 52'S

[4.]

- X1. 17-066 Yamacutta Reef
- X2. 17° 53'S 146° 35'E
- X4. 5370 ha
- X5. Crescentic reef.

17° 53'S

[5.]

- X1. 17-065 U/N
- X2. 17° 53'S 146° 44'E
- X4. 1110 ha
- X5. Reef patches.

17° 54'S

17-053-Y001 Mound Island

17° 55.6'S 146° 08.1'E

See Dunk Island Reef, 17° 57'S 146° 09'E

17° 55'S

17-053-Y002 Dunk Island

17° 56.7'S 146° 09.4'E

See Dunk Island Reef, 17° 57'S 146° 09'E

17° 56'S

17° 57'S

[6.]

X1. 17-053 Dunk Island Reef

X2. 17° 57'S 146° 09'E

X4. 1430 ha

X5. Fringing reef; well developed along SW and W sides.

[7.]

Y1. 17-053-Y002 Dunk Island

Y2. 17° 56.7'S 146° 09.4'E

Y4. 891 ha

Y5. Named by Capt. Cook for G.M. Dunk, 1st Lord of Admiralty on 8.6.1770. Subsequently visited by Lt. Jeffreys (HMS Kangaroo, 1815), Capt. King (HMS Mermaid, 1818), Capt. Owen Stanley (HMS Rattlesnake, 1848), Mr. Dalrymple (Qld. North-east Coast Expedition, 1873).

Reputedly over 400 aborigines once inhabited the island, but only 4 remained in 1908. Areas of the island's mountains are said to contain aboriginal art. Aboriginal name for Dunk Is. was "Coonanglebah".

Y6. 9 land tenure areas:

1. National Park 382 (Gov. Gaz. 1960-3-2046).

Area, 730.46 ha.

2. Freehold Certificate of Title (C.T.) Vol.N. 564, Fol. 99

Area, 85.79 ha; owner, Great Barrier Reef Hotel Pty. Ltd., c/-Secretary, P.O. Box 117, King's Cross, Sydney.

3. Freehold C.T. Vol.N. 555, Fol. 9

Area, 0.405 ha; owner, C. McT., M.H. and H.M. Hopkins.

4. Freehold C.T. Vol.N. 769, Fol. 240

Area, 2.096 ha; owner, Great Barrier Reef Pty. Ltd.

5. Freehold C.T. Vol.N. 817, Fol. 246

Area, 43.35 ha; owner, Great Barrier Reef Pty. Ltd.

6. Freehold C.T. Vol.N. 555, Fol. 10

Area, 16.19 ha; owner, C. McT. Hopkins, c/- H. Hopkins Pty. Ltd., Townsville.

7. Special Lease 31332

Area, 0.119 ha; rent, \$10 p.a.; terms, 30 years expires 31/8/97; lessee,

Cardwell Shire Council, c/- Shire Clerk, P.O. Box 401 Tully, Q.

8. Special Lease 31288

Area, 0.24 ha; rent, \$16 p.a.; terms, 30 years expires 31/1/97; lessee, Great Barrier Reef Hotel Pty. Ltd.

9. Museum Reserve R.668 (Gov. Gaz. 1971-1-308)

Area, 0.121 ha; Banfield Memorial Museum, c/- James Cook University.

Dunk Island proclaimed Reserve for Protection and Preservation of Native Birds (Gov. Gaz. 1905-1-1546).

Recommended Buffer Zone (Beach Protection Authority) on shoreline (Lands Dept. Batch 1845-28).

Application for reclamation of part of S shoreline for a proposed airstrip extension (Lands Dept. 79/42645, Res. 5933).

Y7. Tourist resort & airstrip. Development associated with resort includes tennis courts, swimming pool & a 6 hole golf course.

Y8. High, steep & rocky continental island. Geologically the island is formed of clay slates and micaceous shist. Soft, greasy, very red decomposing granitic clays exposed along SW tidal flats with quartz and blue slate veins on same side of island further inland. Interior hills and ridges are granite.

Vegetation includes substantial areas of rainforest. Vegetation species present include: Eucalyptus corymbosa, E. robusta, E. tessellaris, Diplanthera tetraphylla, Pandanus aquaticus, Calamus sp., Entada scandens, Lygodium sp., Erythrina indica, Canavalia obtusifolia, Melia composita, Iristania suaveolens, Careya australis, Eupomatia laurina, Faradaya splendida, Crinum sp., Vitax trifolia, Cymbidium suave, Eria fitzalani, Bulbophyllum baileyi, Dendrobium undulatum, D. teretifolium, Cyrtostylis reniformis, Phaius grandifolius, Geodorum pictum.

Three perennial streams.

Y9. Rainfall, 4318 mm

Y10. Elevation, 240 m

Y11. Cardwell Shire Council

Y13. Scenic value - 3

Y14. Naturalness value - 2

Y15. 10 spp. of sea birds: 2 breeding colonies (minor breeding) of the Bridled Tern and Black-naped Tern; non-breeding Red-tailed Tropic-bird, Brown Gannet, Pied Cormorant, Common Noddy, Caspian Tern, Little Tern, Crested tern and Sooty Tern.

99 spp. of land & water birds - 55 breeding colonies.

Maritime breeding spp. include Reef Heron, White-faced Heron, Mangrove Heron, Red-backed Sea Eagle and Osprey.

See Kikkawa (1976) for a comprehensive list of breeding spp.

Banfield (1908) notes the terrestrial mammal fauna to comprise the echidna, a flying fox, two bats and two rat species. One of the latter species, examined by Mr. C.W. deVis of the Qld. Museum, was named Uromys banfieldi, and was a previously unrecorded species.

Y16. Mountain Blue Butterfly (Ulysses) used as symbol of Dunk Island resort (family Papilionidae).

Y17. Deep water wharf in Brammo Bay. Public wharf regularly used by commercial and private craft; should only be used on temporary basis.

Y18. Anchorage is in Brammo Bay on island's NW side, only to the west of the deep-water wharf. Anchorage uncomfortable in moderate to heavy weather owing to persistent NE swell.

Y19. Banfield (1908a); Banfield (1908b);

Banfield (1911); Banfield (1918);

Banfield (1925); Barrett (1923);

Barrett (1935); Chisholm (1929);

Collins (1923); Dillon (1934);

Duke (1929); Lucas (1974);

McCristal (1969); McCristal (1971);

Park (1965); Toghill (1982);

Tretheway (1969); Trezise and Wright (1966);
Tuckfield (1953); Walker (1980).

[8.]

- Z1. 17-053-Z002 Dunk Island Resort
- Z2. Dunk Island
- Z3. 131 ha, NW tip of island at Brammo Bay
- Z4. 14.7% island as resort
- Z5. National Park & leasehold for resort
- Z6. Lease presently held by G.B.R. Hotels Pty. Ltd. (subsidiary of TAA)
- Z7. 1896-1916 E. J. Banfield.
1916-? Stephen Hopkins, then Hugo Brassey who developed the first resort.
Changed hands "a number of times" until 1963 when Eric McIllree (founder of
Avis Rent-a-Car Aust.) purchased the freehold from Gordon Stein. McIllree
owned resort until his death in 1973.
- Z9. Expanded in 1978 & more recently
- Z11. Total expenditure to date approx. \$3 million
- Z12a. Capacity - 97 units, 194 people
- Z14. 46,000 resort person days in 1979
15,000-45,000 day visitors/annum
10% of resort guests from Qld., 1% from overseas, and remainder from
interstate.
- Z15. Airstrip; virtually all resort guest arrive by air.
- Z16. Access by air - 35 mins.
Access by sea - 45 mins.
- Z17. Daily access by boat from Clump Pt. jetty near Mission Beach on "M.V.
Lawrence Kavanagh", and 5 days/week on "MV Friendship".
Access from Townsville by air.
- Z19. Staff employed - 93
- Z20. coral viewing
- Z21. bushwalks
- Z24. skin diving
- Z25. water skiing
- Z26. sailing
- Z27. tennis
- Z28. golf
- Z29. swimming
- Z31. archery
- Z32. horseback riding
- Z34. day cruises
- Z37. Garbage tip reportedly not being covered, just sprayed with insecticide.
- Z38. Camping allowed subject to permit; over 350 camping permits in 1979.
Maximum permitted 12 people; limit of stay 3 days.
- Z50. Approx. 2,000 people/annum undertake recreational fishing trips from the
resort and an estimated 6,000-7,000 make reef trips each year.
Staff of the resort are reported to have shot flying foxes and killed
echidnas on the golf course.

[9.]

- Y1. 17-053-Y001 Mound Island (Purtaboi or Honeymoon Island)
- Y2. 17° 55.6'S 146° 08.1'E; 42 km NE of Cardwell, 8 km SE of Clump Point.
- Y4. 6.07 ha
- Y6. National Park 493 (Gov. Gaz. 1954-1-276)
Proclaimed Reserve for Protection and Preservation of Native Birds (Gov. Gaz. 1905-1-1546).
Recommended Buffer Zone (Beach Prot. Auth.) on shoreline (Lands Dept. Batch 1845-29).
- Y8. Geologically high continental island lying on a bank extending N. from Brammo Bay and Dunk Island on Dunk Island Reef.
- Y9. Rainfall, 4318 mm
- Y10. Elevation, 19 m
- Y11. Cardwell Shire Council
- Y13. Scenic value - 3
- Y15. Following birds observed nesting on the island by Banfield (1908) - Torres Strait Pigeon, Peaceful Dove, Blue-reef Heron, Little Black Cormorant (occasionally), Large-billed Shore Plover (Beach Stone Curlew), White-shafted Ternlet (Little Tern), Brown-winged Ternlet (Bridled Tern?).

[10.]

- Y1. 17-053-Y003 Mung-um-gnackum Island
- Y2. 17° 57.1'S 146° 08.5'E
- Y4. 2.023 ha
- Y6. National Park 494 (Gov. Gaz. 1954-1-276).
Recommended Buffer Zone (Beach Prot. Auth.) on shoreline (Lands Dept. Batch 1845-28).
- Y8. Geologically high continental island. On Dunk Island Reef at W. extremity of Dunk Island.
- Y11. Cardwell Shire Council
- Y15. Following birds observed by Banfield (1908) - Varied Honeyeater, Tranquil Dove, Night Jar (nesting places for latter).

[11.]

- Y1. 17-053-Y004 Kumboola Island
- Y2. 17° 57.4'S 146° 08.5'E
- Y4. 12.14 ha
- Y6. National Park 418 (Gov. Gaz. 1939-2-1700).
Proclaimed Reserve for Protection and Preservation of Native Birds (Gov. Gaz. 1905-1-1546).
Recommended Buffer Zone (Beach Prot. Auth.) on shoreline (Lands Dept. Batch 1845-28).
- Y8. Geologically high continental island on Dunk Island Reef at the W. extremity of Dunk Island.
- Y10. Elevation, 61 m
- Y11. Cardwell Shire Council
- Y15. Following birds observed by Banfield (1908) - Channel-billed Cuckoo, Scrub Fowl, Torres Strait Pigeon, Osprey, Grey Falcon.

[12.]

- Y1. 17-053-Y006 Woln-Garin Island
Y2. 17° 58.2'S 146° 10.7'E
Y4. 3.237 ha
Y6. Vacant Crown Land.
Recommended Buffer Zone (Beach Prot. Auth.) on shoreline (Lands Dept.
Batch 1845-28).
Y8. Geologically high continental island. Low, rocky island at S.E. extremity of
Dunk Island on Dunk Island Reef.
Y10. Elevation, 12 m
Y11. Cardwell Shire Council
Y15. Banfield (1908) notes that turtles and occasionally dugong were seen in the
vicinity of this island.

[13.]

- X1. 17-068 Moss Reef
X2. 17° 57'S 146° 48'E
X4. 620 ha
X5. Ribbon reef.

17° 58'S

[14.]

- X1. 17-054 U/N
X2. 17° 58'S 146° 08'E
X4. 60 ha
X5. Reef patches.

17-055-Y005 U/N Island
17° 58.8'S 146° 08.4'E
See Thorpe Island Reef, 17° 59'S 146° 08'E

17-053-Y006 Woln-Garin Island
17° 58.2'S 146° 10.7'E
See Dunk Island Reef, 17° 57'S 146° 09'E

[15.]

- X1. 17-067 U/N
X2. 17° 58'S 146° 36'E
X4. 410 ha
X5. Reef patches.

[16.]

- X1. 17-056 U/N
- X2. 17° 59'S 146° 06'E
- X4. 90 ha
- X5. Coastal fringing reef.

[17.]

- X1. 17-055 Thorpe Island Reef
- X2. 17° 59'S 146° 08'E
- X4. 70 ha
- X5. Fringing reef with high continental island.

[18.]

- Y1. 17-055-Y007 Thorpe Island
- Y2. 17° 59.0'S 146° 08.1'E
- Y3. Family Group
- Y4. 15.99 ha
- Y6. Freehold C.T. Vol.N. 517, Fol. 49 and C.T. Vol.N. 517, Fol. 50.
"Tirnana"; owner, Y.F. Cohen, "The Wool", Mains Road, Templestone Vic.
- Y8. Geologically, high continental island; high, rocky and reef fringed;
wooded.
- Y10. Elevation, 85 m
- Y11. Cardwell Shire Council

[19.]

- Y1. 17-055-Y005 U/N Island
- Y2. 17° 58.8'S 146° 08.4'E
- Y8. High continental island. On Thorpe Island Reef.
- Y10. Elevation, 1 m

18-001-Y008 U/N Island

17° 59.8'S 146° 09.01'E

See Richards Island Reef, 18° 00'S 146° 09'E

[20.]

- X1. 17-069 U/N
- X2. 17° 59'S 146° 46'E
- X4. 380 ha

[21.]

- X1. 18-001 Richards (Bedarra) Island Reef
- X2. 18° 00'S 146° 09'E
- X4. 50 ha
- X5. Fringing reef with high continental island.

[22.]

- Y1. 18-001-Y001 Richards (Bedarra) Island
- Y2. 18° 00.4'S 146° 08.8'E
- Y3. Family Islands
- Y4. 86 ha
- Y5. Originally settled by a Capt. Allison in 1912, part became a banana plantation in 1940's. Home to the artist Noel Woods for 40 years.
- Y6. 3 freehold tenure areas:
 - 1. Freehold C.T. Vol. No. 450, Folio 127:
Area 6.1 ha
Owner: N.H. Wood, P.O. Box 192 Tully.
 - 2. Freehold C.T. Vol. No. 441, Folio 193;
Area 35 ha
Owner: Great Barrier Reef Hotels Pty. Ltd., c/- Secretary,
P.O. Box 117, Kings Cross, Sydney, NSW.
 - 3. Freehold C.T. Vol. No. 441, Folio 195;
Area 45 ha
Owner: C.W. Scott, "Hifomunjie", Omeo 3898.
- Y7. Tourist resort on W side of island.
- Y8. Geologically, high continental island. Steeply sloping island with granite outcrops common, and soils derived from granite/granodiorite. Covered with Medium Vine Thicket vegetation (Tracey, 1982). Latter author listed 28 spp plants on the island.
- Y9. Rainfall, 4,065 mm
- Y10. Elevation, 106 m
- Y11. Cardwell Shire Council
- Y15. Grey Swiftlet breeding site (1 of 3 GBR breeding records of this species).
- Y17. Jetty operated by resort.
- Y18. Moderate anchorage during SE weather off the resort towards the jetty.
- Y19. Morrison (1951).

[23.]

- Z1. 18-001-Z001 Bedarra Island Hideaway Resort
- Z2. Richards Island
- Z3. Resort area - 35 ha
- Z4. 41% of island used.
- Z5. Freehold C.T. Vol. No. 441, Folio 193.
- Z6. Great Barrier Reef Hotels Pty. Ltd. (TAA subsidiary)
- Z7. Sold by Ken Druitt for \$1.2 million to TAA in 1980.
- Z12a.21 (in 8 bungalows and 3 units). Planned capacity of 125 people.
- Z15. No airstrip.
- Z16. Access by launch (45 mins).
- Z17. Access from Clump Point (sea), and Dunk Island (sea).
- Z18. 6 km from Clump Point; 6 km from Dunk Island.
- Z21. Bushwalks
- Z22. Line fishing
- Z24. Skin diving and snorkelling
- Z26a. Sailing

- Z27. Tennis (Dunk Is.)
- Z28. Golf (Dunk Is.)
- Z29. Swimming
- Z31. Archery (Dunk Is.)
- Z34. Day cruises

[24.]

- Y1. 18-001-Y008 U/N Island
- Y2. 17° 59.8'S 146° 09.0'E
- Y8. Geologically, high continental island. On Richards Island Reef.

18-002-Y002 Battleship Rock

18° 00.6'S 146° 09.4'E

See Battleship Rock Reef, 18° 01'S 146° 10'E

18° 01'S

18-003-Y003 Wheeler (Toolqbar) Island

18° 01.7'E 146° 09.9'E

See Wheeler Island Reef, 18° 02'S 146° 10'E

[25.]

- X1. 18-002 Battleship Rock (Pee-Rahm-Ah Is.) Reef
- X2. 18° 01'S 146° 10'E
- X4. 1 ha
- X5. Fringing reef.

[26.]

- Y1. 18-002-Y002 Battleship Rock
- Y2. 18° 00.6'S 146° 09.4'E
- Y8. Geologically, high continental.
- Y10. Elevation, 14 m
- Y11. Cardwell Shire Council

[27.]

- X1. 18-016 U/N
- X2. 18° 01'S 146° 50'E
- X4. 875 ha
- X5. Reef patches.

[28.]

- Y1. 18-000-Y004 U/N Island
- Y2. 18° 02.2'S 146° 03.0'E
- Y8. On tidal flats to S of Tully River mouth.
- Y11. Cardwell Shire Council

[29.]

- Y1. 18-000-Y005 U/N Island
- Y2. 18° 02.1'S 146° 03.2'E
- Y8. On tidal flats to S of Tully River mouth.
- Y11. Cardwell Shire Council

[30.]

- X1. 18-003 Wheeler (Toolqbar) Island Reef
- X2. 18° 02'S 146° 10'E
- X4. 40 ha
- X5. Fringing reef with high continental island.

[31.]

- Y1. 18-003-Y003 Wheeler (Toolqbar) Island
- Y2. 18° 01.7'S 146° 09.9'E
- Y3. Family Islands
- Y4. 30.8 ha
- Y6. Nat. Park 384 (Gov. Gaz. 1936-2-660)
- Y8. Geologically high continental island; wooded, reef fringed and cliffy except on its W side.
- Y9. Rainfall, 4,065 mm
- Y10. Elevation, 85 m
- Y11. Cardwell Shire Council

[32.]

- X1. 18-004 Coombe Island Reef
- X2. 18° 02'S 146° 11'E
- X4. 40 ha
- X5. Fringing reef with high continental island.

[33.]

- Y1. 18-004-Y006 Coombe Island
- Y2. 18° 02.4'S 146° 10.5'E
- Y3. Family Islands
- Y4. 48.6 ha
- Y6. Nat. Park 385 (Gov. Gaz. 1936-2-660).
- Y8. Geologically high continental island; wooded, reef-fringed and cliffy except on its W side.
- Y9. Rainfall, 3810 mm
- Y10. Elevation, 109 m
- Y11. Cardwell Shire Council

18-005-Y007 Bowden (Budg-joo) Island

18° 02.6'S 146° 11.8'E

See Smith Island Reef, 18° 03'S 146° 12'E

18-005-Y008 Smith (Kurrambah) Island

18° 02.3'S 146° 11.9'E

See Smith Island Reef, 18° 03'S 146° 12'E

18° 03'S

[34.]

- X1. 18-005 Smith (Bowden, Kurrambah, Budg-joo) Island Reef
- X2. 18° 03'S 146° 12'E
- X4. 120 ha
- X5. Fringing reef.
- X6. Wallace (1978) recorded 21 spp of Acropora corals on the reef.
- X62. Less popular with user groups (Domm, 1977).
- X64. Wallace (1978).

[35.]

- Y1. 18-005-Y008 Smith (Kurrambah) Island
- Y2. 18° 02.3'S 146° 11.9'E
- Y3. Family Islands
- Y4. 9.7 ha
- Y6. Nat. Park 386 (Gov. Gaz. 1936-2-660).
- Y8. Geologically high continental island; well wooded.
- Y9. Rainfall, 4,065 mm
- Y10. Elevation, 57 m
- Y11. Cardwell Shire Council

[36.]

- Y1. 18-005-Y007 Bowden (Budg-joo) Island
- Y2. 18° 02.6'S 146° 11.8'E
- Y3. Family Islands
- Y4. 9.7 ha
- Y6. Nat. Park 387 (Gov. Gaz. 1936-2-660).
- Y8. Geologically high continental island; well wooded; on Smith Island Reef.
- Y9. Rainfall, 4,065 mm
- Y10. Elevation, 61 m
- Y11. Cardwell Shire Council

[37.]

- X1. 18-006 Hudson (Bird, Coolah) Island Reef
- X2. 18° 03'S 146° 12'E
- X4. 60 ha
- X5. Fringing reef.

[38.]

- Y1. 18-006-Y009 Hudson (Bird, Coolah) Island
- Y2. 18° 03.1'S 146° 12.0'E
- Y3. Family Islands
- Y4. 20.2 ha
- Y6. Nat. Park 388 (Gov. Gaz. 1936-2-660).
- Y8. Geologically, a high continental island composed of the Barnard Metamorphics ("Coastal Series"), with highly altered schists and gneisses associated with gneissic granite rocks (Jones and Jones, 1956). Wooded on all sides.
- Y9. Rainfall, 4,065 mm
- Y10. Elevation, 82 m
- Y11. Cardwell Shire Council

[39.]

- X1. 18-017 U/N
- X2. 18° 03'S 146° 47'E
- X4. 380 ha
- X5. Reef patches.

[40.]

- X1. 18-019 Barnett Patches
- X2. 18° 03'S 146° 52'E
- X4. 3330 ha
- X5. Irregular reef patches rising sharply from a general shelf at 65 m to approximately 20-25 m from which the patches rise (Hopley, 1982); with sand cay.

18° 04'S

[41.]

- X1. 18-018 Otter Reef
- X2. 18° 04'S 146° 34'E
- X4. 13250 ha
- X5. Reef patches.
- X62. Moderately popular with user groups (Dommm 1977).
- X65. Olafson (1978) found two levels of lindane in Acropora and Fungia corals; fish and Iridacna clams.

18° 05'S

[42.]

- X1. 18-007 Kennedy Shoal
X2. 18° 05'S 146° 27'E
X4. 250 ha
X5. Submerged reef.
X62. Less popular with user groups (Domm 1977).

18° 06'S

[43.]

- X1. 18-020 Duncan Reef
X2. 18° 06'S 146° 47'E
X4. 1880 ha
X5. Reef patches with sand cay.

18° 07'S

[44.]

- X1. 18-021 U/N
X2. 18° 07'S 146° 44'E
X4. 60 ha
X5. Submerged reef.

[45.]

- X1. 18-022 U/N
X2. 18° 07'S 146° 46'E
X4. 1500 ha
X5. Crescentic reef.

18° 08'S

18-008-Y010 North Island

18° 08.5'S 146° 16.8'E

See Brook Islands Reef, 18° 09'S 146° 18'E

18-008-Y011 Tween Island

18° 08.8'S 146° 17.1'E

See Brook Islands Reef, 18° 09'S 146° 18'E

[46.]

- X1. 18-023 U/N
- X2. 18° 08'S 146° 58'E
- X4. 310 ha
- X5. Reef patches.

18° 09'S

[47.]

- X1. 18-010 Goold Island Reef
- X2. 18° 09'S 146° 10'E
- X4. 550 ha
- X5. Fringing reef.

[48.]

- Y1. 18-010-Y014 Goold Island
- Y2. 18° 10.0'S 146° 10.2'E
- Y4. 829.6 ha
- Y5. Frequently used as stopping place for freshwater by European ships. Remains of stone fish traps on shoreline near mouth of creek.
- Y6. Nat. Park 389 (Gov. Gaz. 1936-2-1673). Recommended Buffer Zone on shoreline (Beach Protection Authority Batch No. 1845-28).
- Y8. Geologically, a high continental island with sandy beach on SW corner, rocky coastline elsewhere, rising to a heavily vegetated plateau.
- Y9. Rainfall, 3,300 mm
- Y10. Elevation, 406 m
- Y11. Cardwell Shire Council
- Y15. 5 spp. land birds: non-breeding - Australian Goshawk, Little Cuckoo-Shrike, White-eared Flycatcher, Striped Honeyeater, Brown-backed Honeyeater.
- Y16. Striped Honeyeater - only GBR record for this species. Brown-backed Honeyeater - 1 of 2 GBR records for this species.
- Y18. Moderate anchorage off beach and on W side of island.
- Y20. Anon, (1966) noted the island was suitable for a tourist resort. Jukes, (1847) noted abundant freshwater in several creeks.

[49.]

- X1. 18-008 Brook Islands Reef
- X2. 18° 09'S 146° 18'E
- X4. 120 ha
- X5. Fringing reef. Wells (1955) noted the following coral genera: Acropora, Heliopora.
- X62. Regular cruises to the Brook Islands reefs operate from Hinchinbrook Island resort at Cape Richards. Moderately popular with user groups (Domm, 1977).

[50.]

- Y1. 18-008-Y010 North Island
- Y2. 18° 08.5'S 146° 16.8'E
- Y3. Brook Islands
- Y4. 64.8 ha
- Y5. Used as a site for chemical weapons testing in World War II.
- Y6. Nat. Park 390 (Gov. Gaz. 1936-2-660).
- Y8. Geologically high continental island; high and rocky with small fringing reefs, vegetation includes dense rainforest. Its NE face is cliffed. On Brook Islands Reef.
- Y9. Rainfall, 2,285 mm
- Y10. Elevation, 76 m
- Y11. Cardwell Shire Council
- Y15. Most southerly major (>10,000 birds) colonies of Torres Strait Pigeons on GBR.
- Y20. Report by Anon. (1966) claimed the island was suitable for a tourist resort, as a satellite for a larger resort on Goold or Hinchinbrook or as a stopping place for day trips.

[51.]

- Y1. 18-008-Y011 Tween Island
- Y2. 18° 08.8'S 146° 17.1'E
- Y3. Brook Islands
- Y4. 6.5 ha
- Y6. Nat. Park 391 (Gov. Gaz. 1936-2-660).
- Y8. Geologically high continental island; on Brook Islands Reef.
- Y9. Rainfall, 2,285 mm
- Y11. Cardwell Shire Council

[52.]

- Y1. 18-008-Y012 Middle Island
- Y2. 18° 09.0'S 146° 17.3'E
- Y3. Brook Islands
- Y4. 16.2 ha
- Y6. Nat. Park 392 (Gov. Gaz. 1936-2-660).
- Y8. Geologically high continental island; on Brook Islands Reef.
- Y9. Rainfall, 2,285 mm
- Y11. Cardwell Shire Council

[53.]

- Y1. 18-008-Y013 South (South Brook) Island
- Y2. 18° 09.5'S 146° 18.2'E
- Y3. Brook Islands
- Y4. 8.1 ha
- Y6. Freehold D.G. Vol. No. 293, Folio 35;
Owner: Commonwealth of Australia.
- Y7. Unmanned navigational light.
- Y8. Geologically high continental; a small island of volcanic rock, heavily vegetated with rainforest, with spinifex, pandanus, tournefortias and a couch grass fringing the beach. It is cliff-faced and steep on its E side. On Brook Islands Reef.
- Y9. Rainfall, 2,285 mm
- Y11. Cardwell Shire Council
- Y15. 1 sp. sea bird: White-breasted Sea Eagle

8 spp. land or shore birds: breeding - Torres Strait Pigeon, Red-crowned Pigeon, Sacred Kingfisher, Mangrove Kingfisher, Yellow-breasted Sunbird, Australian Shining Starling; non-breeding - Starling, Spangled Drongo.

18° 10'S

18-010-Y014 Goold Island

18° 10.0'S 146° 10.2'E

See Goold Island Reef, 18° 09'S 146° 10'E

[54.]

Y1. 18-000-Y015 U/N Island

Y2. 18° 10.1'S 146° 11.6'E

Y3. Near eastern tip of Goold Island.

Y10. Elevation, 52 m

Y11. Cardwell Shire Council

[55.]

X1. 18-009 Brook Shoal

X2. 18° 10'S 146° 16'E

X4. 60 ha

X5. Submerged reef

18° 11'S

[56.]

Y1. 18-000-Y018 U/N Island

Y2. 18° 11.1'S 146° 08.7'E

Y10. Elevation, 1 m

[57.]

X1. 18-011 Garden Island Reef

X2. 18° 11'S 146° 09'E

X4. 50 ha

X5. Fringing reef.

[58.]

Y1. 18-011-Y016 Garden Island

Y2. 18° 11.1'S 146° 08.6'E

Y4. 20.2 ha

Y6. Recreation Reserve 219 (Gov. Gaz. 1914-2-1271).

Y8. Geologically, a high continental island. Sparsely wooded.

Y9. Rainfall, 3,300 mm

Y10. Elevation, 39 m

Y11. Cardwell Shire Council

[59.]

- X1. 18-012 Sail Rock Reef
- X2. 18° 11'S 146° 09'E
- X4. 1 ha
- X5. Fringing reef.

[60.]

- Y1. 18-012-Y017 Sail Rock
- Y2. 18° 11.4'S 146° 08.6'E
- Y6. Vacant Crown Land.
- Y8. Geologically high continental.
- Y10. Elevation, 9 m
- Y11. Cardwell Shire Council

18° 12'S

[61.]

- X1. 18-033 Pith Reef
- X2. 18° 13'S 147° 02'E
- X4. 1310 ha
- X5. Reef patches.
- X62. Light on reef.

18° 13'S

[62.]

- X1. 18-013 Eva Island (Channel Rock) Reef
- X2. 18° 14'S 146° 19'E
- X4. 120 ha
- X5. Incipient fringing reef.

18° 14'S

[63.]

- Y1. 18-013-Y020 Eva Island
- Y2. 18° 14.2'S 146° 19.3'E
- Y4. 2.4 ha
- Y6. Crown Land.
- Y8. Geologically high continental; steep wooded island which shares reef with Channel Rock.
- Y9. Rainfall, 1,955 mm
- Y10. Elevation, 35 m
- Y11. Cardwell Shire Council

[64.]

- Y1. 18-013-Y019 Channel Rock
Y2. 18° 14.2'S 146° 19.1'E
Y8. Geologically, high continental; on Eva Island (Channel Rock) Reef.
Y10. Elevation, 2 m

[65.]

- X1. 18-024 Britomart Reef
X2. 18° 14'S 146° 44'E
X4. 13,440 ha
X5. Crescentic reef; 15 km long, orientated roughly E-W. Comprises 3 well defined lagoons separated by narrow passes and has several channels opening to the sea.
Sammarco and Carleton (1981) noted the following corals present as spat: Acropora, Seriatopora hystrix, 3 spp. of Mussid, Galaxea, Alveopora, Fungia, a compound Fungiid, Stylophora (?), Porites, a Faviid, and a Caryophylliid or Pectimid.
X62. Moderately popular with user groups (Domm 1977).
X64. Gentien (1981)
Wolanski and Jones (1980)
X65. Olafson (1978) found trace quantities of lindome in Acropora and Fungia corals, fish and Iridacna clams.

18° 15'S

18° 16'S

[66.]

- X1. 18-025 U/N
X2. 18° 16'S 146° 54'E
X4. 690 ha
X5. Reef patches.

[67.]

- X1. 18-034 Myrmidon Reef
X2. 18° 16'S 147° 23'E
X4. 620 ha
X5. Planar reef.
X6. Acropora azurea coral known only from here (J.E. Veron, pers.comm.)
X62. Less popular with user groups (Domm, 1977).
X64. Done (1982)
Williams (1982)
X65. Wreck on reef.

18° 17'S

18° 18'S

18° 19'S

18° 20'S

[68.]

- X1. 18-026 U/N
- X2. 18° 20'S 146° 45'E
- X4. 2690 ha
- X5. Crescentic reef with sand cay.

18° 21'S

[69.]

- Y1. 18-000-Y021 Mangrove Island
- Y2. 18° 21.0'S 146° 07.5'E
- Y6. Vacant Crown Land.
- Y7. Navigational beacon and tide gauge on the SE side of the island.
- Y8. Lies in Hinchinbrook Channel. No fringing reef.
- Y9. Rainfall, 1,955 mm
- Y11. Cardwell Shire Council
- Y20. Areas surrounding are part of Fisheries Habitat Reserve (Gov.Gaz.1971-2-964).

[70.]

- X1. 18-014 Hinchinbrook Island Reef
- X2. 18° 21'S 146° 19'E
- X4. 190 ha
- X5. Incipient fringing reef.
- X11. Very good fossicking value.
- X62. Excellent fossicking in Ramsay Bay (Lucas, 1974).
Less popular with user groups in this region (Domm, 1977).
- X64. Cribb, A.B. (1978a)
Cribb, A.B. (1978b).

[71.]

Y1. 18-014-Y023 Hinchinbrook Island

Y2. 18° 22.0'S 146° 15.0'E

Y4. Approx. 40,000 ha

Y5. Hinchinbrook Island aborigines belonged to the Bandjin tribe. Cannibalism was practiced, and several whites were known to have been killed by these people during the early-mid 19th Century. Middens exist at several sites, and the remains of stone intertidal fish traps occur at several places. Originally called Mt. Hinchinbrook by King ca. 1819, but confirmed as an island by Jukes ca. 1844. Remains of fish traps constructed by natives on shoreline.

Y6. 2 tenure areas:

1. National Park 95 (Gov.Gaz. 1960-3-1390).

Area: all island except S.L 41350

2. Special Lease 41350

Area, 8.1 ha; rent, \$200 total for 1st 5 years; terms, 75 yrs. expires 31/12/2052; lessee, Hinchinbrook Island Pty. Ltd., C/- Hungerfords, P.O. Box 537, Townsville.

Recommended Buffer Zones on NE and SE coasts (Beach Prot. Auth.) (Lands Dept. Batch 1845-28).

Y7. Resort at Cape Richards. Barbecue, toilet, freshwater available at Scraggy Point.

Y8. A rugged high continental island, roughly Y shaped. W side is either steep hillside covered with rainforest, or flat with deep mangrove creeks. E side is rocky and steep to undulating with a dry scrub and occasional areas of rainforest. Granite outcrops are common, and soils are derived either from granite or, in lower areas, alluvium. Other rock types present are silicic volcanics and Pleistocene screes.

Tracey (1982) and Tracey and Webb (1978) recognized 10 distinct vegetation complexes on the island: Complex Mesophyll Vineforest, Mesophyll Vineforest, Closed Forests with Schlerophyll Emergents and Co-Dominants, Medium Open Forests and Medium Woodlands, Medium and Low Woodlands, Coastal Beach Ridges and Swales, Texture Contrast Soils with Impeded Drainage on Coastal Plains, Mountain Rock Pavements, Saline Littoral Zone, Coastal Plains - Grassland.

Tracey and Webb (1978) list 170 spp. of rainforest plants found on the island. Sharpe (1978) recorded 289 spp. of vascular plants (including mangroves). Tracey (1982) lists 111 species from 2 sites on the island.

Y9. Rainfall, 1,955 mm

Y10. Elevation, 980 m

Y11. Cardwell Shire Council

Y13. Island's scenic value: 3

Y14. Island's naturalness value: 3

Y15. 13 spp. sea or shore birds: breeding - White-breasted Sea Eagle; non-breeding - Australian Pelican, Black Cormorant, White-faced Heron, Plumed Egret, Reef Heron, Southern Stone Curlew, Beach Stone Curlew, Silver Gull, Caspian Tern, Black-naped Tern, Crested Tern, Lesser Crested Tern.
48 spp. land birds: breeding - Varied Triller; non-breeding - Brahminy Kite, Whistling Kite, Wedge-tailed Eagle, Red-crowned Pigeon, Green-winged Pigeon, Sulphur-crested Cockatoo, Golden Bronze Cuckoo, Pheasant Coucal, Grey Swiftlet, Azure Kingfisher, Blue-winged Kookaburra, Sacred Kingfisher, Mangrove Kingfisher, Rainbow Bird, Welcome Swallow, Little Cuckoo Shrike, Lovely Wren, Fairy Warbler, Buff-tailed Thornbill, Lemon-breasted Flycatcher, Grey Fantail, Rufous Fantail, Pale Yellow Robin, Leaden Flycatcher, Shining Flycatcher, Satin Flycatcher, Spectacled Flycatcher, White-eared Flycatcher, Pied Flycatcher, Boat-billed Flycatcher, Grey Whistler, Grey Shrike-Thrush, Rufous Shrike-Thrush, Mistletoe Bird, Yellow-breasted Sunbird, Grey-breasted Silvereye, Dusky Honeyeater, Lesser Lewin Honeyeater, Macleay's Honeyeater, White-throated Honeyeater, Helmeted Friarbird, Brown-backed Honeyeater, Olive-backed Oriole, Yellow Figbird, Spangled Drongo, Grey Butcherbird, Black Butcherbird.

- Y18. Very good sheltered anchorages in Hinchinbrook Channel and in creek mouths, especially at N end of Zoe Bay. Moderate anchorage in Missionary Bay near the resort.
- Y19. Alcorn (1978); Colliver (1978a);
Colliver (1978b); Ewart (1978);
Jahnke (1978); Marks (1978);
Monteith (1978); Pearson and Reeves (1978);
Reeves (1978); Stevens (1981);
Tracey and Webb (1978); Troughton and Le Souef (1929);
Wolanski et al. (1980)
- Y20. World's largest island national park. Missionary Bay mangroves have been the site of intensive research by AIMS scientists. Freshwater available at Deluge Inlet and Scraggy Point.

[72.]

- Z1. 18-014-Z023 Cape Richards Resort.
- Z2. Hinchinbrook Island.
- Z3. 9.3 ha at N tip of Cape Richards.
- Z4. 0.025% of island used.
- Z5. Leasehold.
- Z6. Presently held by consortium of 19 Townsville businessmen: Hinchinbrook Island Pty. Ltd. (chairman is T. Bolger).
- Z7. In May 1981 Ansett considered buying resort and expanding to hold 700 guests, with lease expanded to 119 ha - Airstrip included in proposal.
- Z8. Established & operating 1974.
- Z10. Establishment costs \$500,000.
- Z11. Additions: 16 units - \$1.5 million planned for 1981.
- Z12a. Max. overnight accomodation: 60 people in 15 large units.
- Z13. Peak season: mid-December to mid-January.
- Z15. Resort will use 2 8-seater Grumman Goose amphibious planes.
- Z16. Access by sea (95 mins.) and air.
- Z17. Access from Cardwell (sea); Townsville (air).
- Z18. Distance 22 km from Cardwell.
- Z21. Bushwalks
- Z22. Line fishing
- Z29. Swimming
- Z34. Day cruises
- Z38. 2 camping areas are established. Permits for 14 days from QNPWS.

[73.]

- Y1. 18-014-Y024 U/N Island
- Y2. 18° 22.5'S 146° 20.0'E
- Y8. On Hinchinbrook Island reef.
- Y11. Cardwell Shire Council

[74.]

- X1. 18-015 Agnes Island Reef
- X2. 18° 21'S 146° 20'E
- X4. 50 ha
- X5. Incipient fringing reef.

[75.]

- Y1. 18-015-Y022 Agnes Island
Y2. 18° 21.4'S 146° 19.6'E
Y4. 16.2 ha
Y6. Vacant Crown Land.
Y8. Geologically high continental; a small rocky continental island linked to Hinchinbrook Island at low tide. Most of island is vegetated with tropical heath; along N shore is a small patch of closed forest below cliffs.
Y9. Rainfall, 1,955 mm
Y10. Elevation, 89 m
Y11. Cardwell Shire Council
Y15. 1 sp. sea bird: Darter.
3 land birds: Boobook Owl, Brown Honeyeater, White-breasted Wood-swallow.
Y18. Moderate anchorage in bay behind rocky headland.

[76.]

- X1. 18-036 Urchin Shoal
X2. 18° 21'S 147° 05'E
X4. 60 ha
X5. Submerged reef.

[77.]

- X1. 18-035 Thread Shoal
X2. 18° 21'S 147° 11'E
X4. 60 ha
X5. Submerged reef.

18° 22'S

- 18-014-Y023 Hinchinbrook Island
18° 22.0'S 146° 15.0'E
See Hinchinbrook Island Reef, 18° 21'S 146° 19'E

- 18-014-Y024 U/N Island
18° 22.5'S 146° 20.0'E
See Hinchinbrook Island Reef, 18° 21'S 146° 19'E

[78.]

- X1. 18-027 Trunk Reef
X2. 18° 22'S 146° 50'E
X4. 11380 ha
X5. Crescentic reef.
X62. Moderately popular with user groups (Domm 1977).

[79.]

- X1. 18-037 Needle Reef
X2. 18° 22'S 147° 12'E
X4. 250 ha
X5. Crescentic reef.

18° 23'S

[80.]

- X1. 18-028 U/N
X2. 18° 23'S 146° 46'E
X4. 60 ha
X5. Submerged reef

[81.]

- X1. 18-038 Thimble Shoal
X2. 18° 23'S 147° 16'E
X4. 120 ha
X5. Submerged reef.

18° 24'S

18° 25'S

[82.]

- Y1. 18-000-Y025 U/N Island
Y2. 18° 25.6'S 146° 21.1'E
Y8. In Hinchinbrook Channel.

[83.]

- X1. 18-029 Bramble Reef
X2. 18° 25'S 146° 43'E
X4. 6130 ha
X5. Crescentic reef.
X62. Moderately popular with user groups in this region (Domm 1977). Recommended for line and game fishing because of large size and accessibility to small boats (Domm 1977).
X65. Olafson (1978) found trace quantities of lindane in Acropora and Fungia corals, fish and Iridacna clams, and Heptachlor epoxide, DDT and DDE in fish.

[84.]

- X1. 18-040 Arab Reef
- X2. 18° 25'S 147° 09'E
- X3. The Slashers Group.
- X4. 440 ha
- X5. Reef patches.
- X62. More popular with user groups in this region (Domm 1977).
However, Domm (1977) also cites "the Slashers Group" reefs as the most popular reef with user groups in this region, and Arab Reef (one of "The Slashers") as a little visited reef (0.3 groups visiting per year).

[85.]

- X1. 18-039 Dip Reef
- X2. 18° 25'S 147° 27'E
- X4. 560 ha
- X5. Crescentic reef.
- X62. Less popular with user groups (Domm 1977).
- X64. Williams (1982).

18° 26'S

[86.]

- X1. 18-030 Kelso Reef
- X2. 18° 26'S 147° 00'E
- X3. The Slashers Group
- X4. 880 ha
- X5. Crescentic reef.
- X62. More popular with user groups in this region (Domm 1977)
However, Kelso Reef is also cited in Domm (1977) as being less popular (1.3 groups visiting per year).

[87.]

- X1. 18-042 Slashers Reefs
- X2. 18° 26'S 147° 04'E
- X4. 1750 ha
- X5. Reef patches.

[88.]

- X1. 18-041 Faraday Reef
- X2. 18° 26'S 147° 21'E
- X4. 250 ha
- X5. Crescentic reef.

[89.]

- X1. 18-046 Coil Reef
X2. 18° 26'S 147° 31'E
X4. 190 ha
X5. Crescentic reef.

18° 27'S

[90.]

- Y1. 18-000-Y026 U/N Island
Y2. 18° 28.4'S 146° 13.0'E
Y8. In Hinchinbrook Channel.

18° 28'S

[91.]

- X1. 18-031 Little Kelso Reef
X2. 18° 29'S 147° 00'E
X4. 380 ha
X5. Planar reef with sand cay.

18° 29'S

[92.]

- X1. 18-045 U/N
X2. 18° 29'S 147° 24'E
X4. 120 ha
X5. Submerged reef.

[93.]

- X1. 18-032 Rib Reef
X2. 18° 29'S 147° 53'E
X4. 500 ha
X5. Crescentic reef.
X62. Light on reef.
Less popular with user groups (Domm 1977).
X64. Done (1982)
Williams (1982)

18° 30'S

[94.]

- X1. 18-047 Oyster Rock Reef
- X2. 18° 30'S 146° 18'E
- X4. 1 ha
- X5. Incipient fringing reef.

[95.]

- Y1. 18-047-Y027 Oyster Rock
- Y2. 18° 30.3'S 146° 17.9'E
- Y8. Geologically a high continental island.

[96.]

- X1. 18-043 Slashers Reefs
- X2. 18° 30'S 147° 03'E
- X4. 1940 ha
- X5. Crescentic reef.

[97.]

- X1. 18-044 Slashers Reefs
- X2. 18° 30'S 147° 06'E
- X4. 500 ha
- X5. Reef patches.

[98.]

- X1. 18-070 Arc Reef
- X2. 18° 30'S 147° 27'E
- X4. 60 ha
- X5. Reef patches.

18° 31'S

[99.]

- X1. 18-080 Bowl Reef
- X2. 18° 31'S 147° 32'E
- X4. 2000 ha
- X5. Ribbon reef. Consists of a hard-line windward reef, contrasting with irregular leeward development, and a back reef sand slope with isolated coral colonies.
- X62. Less popular with user groups (Domm 1977).
- X63. Williams (1982).

18° 32'S

[100.]

- X1. 18-069 Slashers Reefs
X2. 18° 32'S 147° 09'E
X4. 4500 ha
X5. Reef patches with sand cay.

[101.]

- X1. 18-071 Glow Reef
X2. 18° 32'S 147° 24'E
X4. 310 ha
X5. Reef patches.
X62. Less popular with user groups in this region (Domm 1977).

18° 33'S

- 18-048-Y028 Pelorus (North Palm, Yanooa) Island
18° 33.2'S 146° 29.7'E
See Pelorus Island Reef, 18° 34'S 146° 29'E

[102.]

- X1. 18-072 U/N
X2. 18° 33'S 147° 14'E
X4. 190 ha
X5. Submerged reef.

18° 34'S

[103.]

- X1. 18-048 Pelorus (North Palm, Yanooa) Island Reef
X2. 18° 34'S 146° 29'E
X4. 120 ha
X5. Fringing reef.
X62. Less popular with user groups (Domm 1977).

[104.]

- Y1. 18-048-Y028 Pelorus (North Palm, Yanooa) Island
Y2. 18° 33.2'S 146° 29.7'E
Y3. Palm Islands Group
Y4. 356 ha
Y6. 2 tenure areas:
1. Recreation Reserve R.614. (Gov. Gaz. 1968-3-1141)
2. S.L. 31301.
Area, 0.4 ha; rent, \$120 per year; terms, 30 years expires 7/8/1997;
condition that it not be used for resort purposes; lessees: G.L & A.R
Richards.
Y8. Geologically high continental island; steep and wooded.

- Y9. Rainfall, 1,980 mm
- Y10. Elevation, 282 m
- Y11. Townsville City Council

[105.]

- X1. 18-073 Hopkinson Reef
- X2. 18° 34'S 147° 12'E
- X3. The Slashers Group
- X4. 500 ha
- X5. Crescentic reef.
- X62. More popular with user groups in this region (Domm 1977).
However, Hopkinson Reef is also cited individually in Domm (1977) as being of moderate popularity (1.7 groups visiting per year).

[106.]

- X1. 18-074 Yankee Reef
- X2. 18° 34'S 147° 30'E
- X4. 1000 ha
- X5. Reef patches.
- X62. Moderately popular with user groups (Domm 1977).

18° 35'S

[107.]

- X1. 18-081 Knife Reef
- X2. 18° 35'S 147° 34'E
- X4. 310 ha
- X5. Crescentic reef.

[108.]

- X1. 18-082 U/N
- X2. 18° 35'S 147° 51'E
- X4. 190 ha
- X5. Submerged reef.

18° 36'S

[109.]

- X1. 18-049 Orpheus (Goolboddi) Island Reefs
- X2. A, (Pioneer Bay) (Goolboddi) 18° 36'S 146° 29'E
- B, (Hazard Bay) (Goolboddi) 18° 38'S 146° 30'E
- C, (Harrier Pt) (Goolboddi) 18° 40'S 146° 29'E
- D, (Goolboddi) 18° 38'S 146° 30'E
- E, (Goolboddi) 18° 36'S 146° 30'E
- Nw co-ordinates 18° 36'S 146° 29'E
- X4. A, 120 ha
- B, 060 ha
- C, 120 ha

D, 060 ha
E, 120 ha
Total 480 ha

- X5. Fringing reef.
X20. Very good diving
X24. Good sheltered anchorage.
X28. Moderately used by professional fishermen (Lucas, 1974).
X62. Thought by Lucas (1974) to be one of the best diving value reefs in the area.
Anchorage (moderate to good) in Hazard Bay close to fringing reef. Better anchorage in Pioneer Bay (N side of island), but reef is of poorer quality.
Commercial trawlers and mackerel fishermen make use of Pioneer Bay and Cattle Bay for anchorages (Lucas 1974).
Tidal streams between Pelorus and Orpheus Islands are usually strong.
Moderately popular with user groups (Domm 1977).
N.B. "Palm Island Group" as a whole are more popular with user groups (Domm 1977).

[110.]

Y1. 18-049-Y029 Orpheus (Goolboddi) Island

Y2. 18° 37.0'S 146° 29.6'E

Y3. Palm Islands Group.

Y4. 1376 ha

Y5. Previously used as a base for mackerel fishermen, sheep run, oyster farming, and 'degaussing' station during World War II. Derelict buildings stemming from all the above activities still stand on various parts of the island.

Named and visited by Cook. At that time, Banks recorded the following plant species: Hibiscus, Sesuvium, Clerodendron, Knoxia, Halium, Pittosporum, Sarcostemma and Pterocaulon.

Y6. 5 tenure areas:

1. Nat. Park 531 (Gov. Gaz. 1960-1-1166).

Area, 1367 ha

2. S.L. 25629.

Area, 7.6 ha; rent, \$30 p.a.; terms, 30 years expires 30/6/1991; lessee, Orpheus Island Resort Pty. Ltd.

3. N.C.L. 1722.

Area, 2.9 ha; rent, \$900 p.a. for period 1/7/76 - 1/7/86; terms, commenced 1/7/1961; lessee, Orpheus Island Resort Pty. Ltd.

4. S.L. 41604.

Area, 2 ha; rent, \$1 p.a.; terms, 20 years expires 31/5/1998; lessee, James Cook University.

5. Vacant Crown Land.

Area, 1.0 ha.

Y7. Tourist resort on SW side of island. Research station.

Y8. Divided into three wooded summits with low narrow necks of land between. E side of island is steep.

Y9. Rainfall, 2,005 mm

Y10. Elevation, >200 m

Y15. Feral goats.

[111.]

- Z1. 18-049-2029 Orpheus Island Resort
- Z2. Orpheus Island.
- Z3. 10.5 ha
- Z4. 0.8% of island used.
- Z5. Tenure: N.C.L. 1722
- Z6. Held by Orpheus Island Resort Pty. Ltd.
- Z7. Started by local businessman George Morris. Operated by Taylor family from mid 1940's to 9/1967.
 - 9/67-4/74: Orpheus Island Pty. Ltd. (F. & W. Jeffries)
 - 4/74-5/79: Snipe Investments Pty. Ltd.
 - 5/79-11/80: Ceramic Properties Pty. Ltd.
 - 11/80- present: current leasee.
- N.B. Changes in S.L. 25629 ownership, the adjacent lot to N.C.L. 1722, mirror those of the resort lease.
- Z8. Established 1902, reopened in Dec. '81 after 2 years closure.
- Z12a. Max. overnight accommodation: 25
- Z15. Helipad only.
- Z16. Access means & time: launch, 2hrs; helicopter, 20 mins.
- Z17. Access from Townsville (air & sea).
- Z18. Distance: Townsville (80km).
- Z20. Coral viewing
- Z21. Bushwalks
- Z22. Line fishing
- Z24. Skin diving
- Z25. Water skiing
- Z26a. Sailing
- Z26b. Windsurfing
- Z29. Swimming
- Z30. Glass-bottom boat
- Z34. Day cruises
- Z38. No camping permitted within resort area.

18° 37'S

18-049-Y029 Orpheus (Goolboddi) Island

18° 37.0'S 146° 29.6'E

See Orpheus Island Reef A, 18° 36' S 146' 29'E

[112.]

- X1. 18-083 Fork Reef
- X2. 18° 37'S 147° 34'E
- X4. 310 ha
- X5. Crescentic reef.

[113.]

- X1. 18-084 Cup Reef
- X2. A, 18° 37'S 147° 37'E
- B, 18° 39'S 147° 35'E
- C, (Saucer Rf.) 18° 40'S 147° 36'E
- NW co-ordinates 18° 37'S 147° 37'E
- X4. A, 380 ha
- B, 380 ha

C, 120 ha
Total 880 ha

X5. Reef patches. 3 reefs sharing common submerged reef platform.

18° 38'S

[114.]

X1. 18-075 John Brewer (Watt) Reef

X2. 18° 38'S 147° 04'E

X4. 1750 ha

X5. Lagoonal reef. Done (1982) mentions the following corals to be present on the reef: Acropora (tabulate and caespitose forms), Stylophora pistillata, Seriatopora hystrix and various encrusting types.

X62. More popular with user groups in this region (Domm 1977).

X64. Williams (1982).

X65. Hopley (1982) noted that this reef had achieved over 90% coral cover regrowth within 4 years of Acanthaster devastation.

[115.]

X1. 18-076 Helix Reef

X2. 18° 38'S 147° 18'E

X4. 60 ha

X5. Reef patches.

X62. Moderately popular with user groups (Domm 1977).

[116.]

X1. 18-077 Grub Reef

X2. 18° 38'S 147° 25'E

X4. 2380 ha

X5. Lagoonal reef.

X62. Moderately popular with user groups (Domm 1977).

18° 39'S

18-084 Cup Reef B

18° 39'S 147° 35'E

See Cup Reef A, 18° 37'S 147° 37'E

18° 40'S

[117.]

X1. 18-052 Curacao (Noogoo) Island Reef

X2. A, 18° 40'S 146° 34'E

B, 18° 41'S 146° 33'E

NW co-ordinates 18° 40'S 146° 34'E

X3. Palm Islands Group

X4. A, 50 ha

B, 120 ha

Total, 170 ha

- X5. Fringing reef.
- X15. Very good reef fishing.
- X21. No sheltered anchorage.
- X62. Less popular with user groups (Domm 1977).
N.B. Usage data in Domm (1977) indicates the "Palm Island Group" reefs as a whole are among the more popular reefs in the region.

[118.]

- Y1. 18-052-Y030 Curacoa (Noogoo) Island
- Y2. 18° 40.0'S 146° 33.2'E
- Y3. Palm Islands Group
- Y4. 440 ha
- Y6. Aboriginal Reserve R. 216 (part) (Gov. Gaz. 1968-2-734)
- Y8. Geologically, a high continental island.
- Y9. Rainfall, 2,005 mm
- Y10. Elevation, 295 m
- Y11. Townsville City Council
- Y15. Feral goats.
- Y19. Hopley, D. (1968).

[119.]

- X1. 18-085 Spoon Reef
- X2. A & B, 18° 40'S 147° 34'E
- X4. A, 190 ha
B, 060 ha
Total 250 ha
- X5. Reef patches.

- 18-084 Cup Reef C (Saucer Reef)
18° 40'S 147° 36'E
See Cup Reef A, 18° 37'S 147° 37'E

[120.]

- X1. 18-086 Chicken Reef
- X2. 18° 40'S 147° 43'E
- X4. 380 ha
- X5. Crescentic reef.

[121.]

- X1. 18-050 Lady Elliot Reef
- X2. 18° 41'S 146° 20'E
- X4. 60 ha
- X5. Submerged reef.
- X62. Less popular with user groups (Domm 1977).

18° 41'S

[122.]

- X1. 18-053 Fantome (Eumilli) Island Reef
X2. 18° 41'S 146° 31'E
X4. 190 ha
X5. Fringing reef.
X24. Good sheltered anchorage.
X62. Unmanned navigational light.
Anchorage in Juno Bay close to reef near abandoned buildings.
Less popular with user groups (Domm 1977).

[123.]

- Y1. 18-053-Y031 Fantome (Eumilli) Island
Y2. 18° 41.2'S 146° 31.2'E
Y3. Palm Islands Group
Y4. 735 ha
Y5. Named after HMS Fantome, a survey vessel which charted the area in the mid 1800's. Until 1973, an Aboriginal leper colony run by the Catholic church.
Y6. Reserve for Dept. and Official Purposes R. 735 (Gov.Gaz. 1975-2-900).
Y7. Abandoned leprosarium buildings.
Y8. Geologically, a high continental island. The island has two peaks at its S and N sides separated by a low narrow neck of land. The N hill slopes down to a low sandy plain on which there is a hillock. The E side of the island is steep and rocky.
Y9. Rainfall, 1,780 mm
Y10. Elevation, 218 m
Y11. Townsville City Council
Y13. Scenic value: 3
Y15. Wild goats.

[124.]

- X1. 18-054 Great Palm Island Reefs
X2. A, (Coolgaree B.) 18° 43'S 146° 34'E
B, (Butler-Mundy B.) 18° 46'S 146° 37'E
C, (Barber B.) 18° 46'S 146° 41'E
D, 18° 45'S 146° 41'E
E, (North East B.) 18° 44'S 146° 39'E
F, (Hullumbooroo B.) 18° 42'S 146° 36'E
G, (Cannon B.) 18° 41'S 146° 35'E
NW co-ordinates, 18° 41'S 146° 35'E
X4. A, 690 ha
B, 380 ha
C, 120 ha
D, 310 ha
E, 250 ha
F, 060 ha
G, 060 ha
Total, 1870 ha
X5. Fringing reef.
Wells (1955) noted the following coral genera present on "Palm Islands" reefs: Synaraea, Caulastrea, Pectinia, Euphyllia, Echinophyllia, Merulina, Astreopora, Millepora, Echinopora, Leptoria, Hydnophora, Stylophora, Lobophyllia, Porites, Cycloseris, Acropora, Favites, Montipora, Cyphastrea, Pavona, Pocillopora, Turbinaria.
X6. Acropora kirstyae known only (and abundant) here (J.E. Veron, pers. Comm.). Wallace (1978) noted the following Acropora corals: A. grandis, A.

nasuta, A. rosaria, and A. brueggemanni.

- X20. Very good diving
- X24. Good sheltered anchorage.
- X62. Anchorage close to fringing reef S of settlement in Challenger Bay. Moderately popular with user groups (Domm 1977).
N.B. "Palm Island Group" as a whole was listed among the more popular category based on Domm's data.

[125.]

- Y1. 18-054-Y032 Great Palm Island
- Y2. 18° 44.5'S 146° 36.6"E
- Y3. Palm Islands Group
- Y4. 5,666 ha
- Y5. Named by Captain Cook. Originally inhabited by the Boogamon people, and a government mission was set up in 1918.
- Y6. 7 tenure areas:
 1. Aboriginal Reserve R216 (part) (Gov.Gaz. 1968-2-734).
Area: all of island except for a few ha in following areas.
 2. Vacant Crown Land. 3 separate allotments totalling 9.3 ha.
 3. S.L. 33868
Area: 0.2 ha; Rent: \$6 p.a.; Terms: 30 years expires 30/4/2000; Lessee: Synod of Diocese of Nth. Qld., P.O. Box 519, Townsville.
 4. S.L. 34240
Area: 0.25 ha; Rent: \$6 p.a.; Terms: 30 years expires 31/3/2000.; Lessees: E.C. Long, I.T. Perry, & E.A. Collins as Trustees of the Aborigines Inland Mission of Australia.
 5. S.L. 34117
Area: 0.08 ha; Rent: \$6 p.a.; Terms: 30 years expires 31/3/2000; Lessees: same as above.
 6. S.L. 31592
Area: 1.9 ha; Rent: \$6 p.a.; Terms: 30 years expires 31/7/97; Lessee: Roman Catholic Trust Corp., Diocese of Townsville.
 7. Other reserves for schools, hospital, totalling 3.7 ha.
- Y7. Airstrip. Aboriginal settlement on SW side in Challenger Bay.
- Y8. Geologically, a high continental island. Island is thickly wooded. Three ridges extend from the summit. The coastline is cliffy and steep over much of its E and S coasts. Rainforest occurs on N side ridges and in sheltered gullies. Lower and drier ridges support an open Eucalyptus forest which is subject to frequent fires that have replaced the usual understorey with grasses. On level ground this open forest gives way to a savannah type, and uncommonly, to grassland. Swampy land supports Melaleuca leucadendron and Phragmites consumins. Mangroves occur along several tidal creeks and on intertidal shorelines.
- Y9. Rainfall, 1,780 mm
- Y10. Elevation, (Mt. Bentley) 554 m
- Y11. Townsville City Council
- Y15. 8 spp. land birds (none breeding): Brown Hawk, Eastern Grass Owl, Noisy Pitta, Little Cuckoo-Shrike, Black-throated Warbler, Spectacled Flycatcher, Rufous Shrike Thrush, Spangled Drongo.
- Y16. Brown Hawk - 1 of 3 GBR records
Eastern Grass Owl - only GBR record
Noisy Pitta - 1 of 4 GBR records
- Y17. Jetty on W side of island. Moorings available near jetty. Anchorage off beach on NE side in bay.
- Y19. Herbert, D.A. (1929).
- Y20. Freshwater available at settlement and in creek in NE bay.
Anon. (1966) noted the island was suitable for a tourist resort.

Permission to land on island required from Qld. Dept. of Aboriginal & Islanders Affairs.

[126.]

- Y1. 18-054-Y034 U/N Island
- Y2. 18° 45.6'S 146° 41.6'E
- Y8. On Great Palm Island Reef D.

[127.]

- Y1. 18-054-Y040 U/N Island
- Y2. 18° 46.7'S 146° 38.6'E
- Y6. Vacant Crown Land
- Y8. On Great Palm Island Reef B
- Y11. Townsville City Council

18° 42'S

[128.]

- X1. 18-078 Lodestone Reef
- X2. 18° 42'S 147° 06'E
- X4. 500 ha
- X5. Planar reef.
- X62. Moderately popular with user groups (Domm 1977).
- X64. Done (1982)
Williams (1982)
- X65. Reported to Domm (1977) by several observers as being a "dead reef" following a heavy infestation of crown-of-thorns starfish.

[129.]

- X1. 18-087 U/N
- X2. 18° 42'S 147° 52'E
- X4. 30 ha
- X5. Reef patches.

18° 43'S

18-054-Y032 Great Palm Island

18° 44.5'S 146° 36.6'E

See Great Palm Island Reefs, 18° 41'S 146° 35'E

18° 44'S

[130.]

- X1. 18-055 Hayman Rock Reef
X2. 18° 44'S 146° 42'E
X4. 1 ha
X5. Incipient fringing reef.

[131.]

- Y1. 18-055-Y033 Hayman Rock
Y2. 18° 44.5'S 146° 41.5'E
Y6. Vacant Crown Land
Y8. Geologically, high continental.
Y11. Townsville City Council

[132.]

- X1. 18-088 Centipede (Goon) Reef
X2. 18° 44'S 147° 32'E
X4. 2750 ha
X5. Crescentic reef.
X62. Moderately popular with user groups in this region (Domm 1977).

[133.]

- X1. 18-090 U/N
X2. 18° 44'S 147° 51'E
X4. 190 ha
X5. Planar reef.

[134.]

- X1. 18-089 Anzac Reef
X2. 18° 44'S 147° 53'E
X4. 250 ha
X5. Crescentic reef.

18° 45'S

18-054-Y034 U/N Island
18° 45.6'S 146° 41.6'E
See Great Palm Island Reefs, 18° 41'S 146° 35'E

[135.]

- X1. 18-056 Paluma Rock Reef
X2. 18° 45'S 146° 42'E
X4. 1 ha
X5. Submerged reef.

[136.]

- Y1. 18-056-Y035 Paluma Rock
- Y2. 18° 45.2'S 146° 42.0'E
- Y6. Vacant Crown Land
- Y8. Geologically high continental.
- Y11. Townsville City Council

[137.]

- X1. 18-079 Keeper Reef
- X2. 18° 45'S 147° 16'E
- X4. 620 ha
- X5. Planar reef.
- X62. Moderately popular with user groups (Domm 1977).
- X64. Dineson (1982).
Gentien (1981).
- X65. Olafson (1978) found trace levels of lindane in Acropora and Fungia corals and fish.

[138.]

- X1. 18-092 U/N
- X2. 18° 45'S 147° 57'E
- X4. 190 ha
- X5. Crescentic reef.

18° 46'S

- 18-060-Y036 Dido Rock
- 18° 46.6'S 146° 30.6'E
- See Dido Rock Reef, 18° 47'S 146° 31'E

[139.]

- X1. 18-059 Esk (Soopun) Island Reef
- X2. 18° 46'S 146° 31'E
- X4. 20 ha
- X5. Fringing reef.

[140.]

- Y1. 18-059-Y037 Esk (Soopun) Island
- Y2. 18° 46.3'S 146° 31.1'E
- Y3. Palm Islands Group
- Y4. 26 ha
- Y6. Aboriginal Reserve R. 216 (part) (Gov.Gaz. 1962-2-734).
- Y8. Geologically high continental; well wooded island fringed with reefs.
- Y9. Rainfall, 1,650 mm
- Y10. Elevation, 50 m
- Y11. Townsville City Council

18-062-Y038 Falcon (Carbooroo) Island

18° 46.2'S 146° 31.9'E

See Brisk, Falcon (Carbooroo, Culgarool) Islands Reef, 18° 47'S 146° 32'E

[141.]

X1. 18-058 Eclipse (Garoogubbee) Island Reef

X2. 18° 46'S 146° 33'E

X4. 10 ha

X5. Fringing reef.

[142.]

Y1. 18-058-Y039 Eclipse (Garoogubbee) Island

Y2. 18° 46.3'S 146° 33.1'E

Y3. Palm Islands Group

Y6. Aboriginal Reserve R. 216 (part) (Gov.Gaz. 1968-2-734).

Y8. Geologically, a high continental island. Flat-topped summit which slopes to a sandy point at its NW end. Trees are very stunted on exposed ridges due to wind action - mainly Eucalyptus and grasses, with rainforest types occurring in moist gullies on the N side.

Y9. Rainfall, 1,650 mm

Y10. Elevation, 63 m

Y11. Townsville City Council

Y19. Herbert (1929).

18-054-Y040 U/N Island

18° 46.7'S 146° 38.6'E

See Great Palm Island Reefs, 18° 41'S 146° 35'E

[143.]

X1. 18-061 Barber (Boodthean) Islet Reef

X2. 18° 46'S 146° 40'E

X4. 10 ha

X5. Fringing reef.

[144.]

Y1. 18-061-Y041 Barber (Boodthean) Islet

Y2. 18° 46.7'S 146° 39.9'E

Y3. Palm Islands Group

Y4. 2.4 ha

Y6. Vacant Crown Land.

Y8. Geologically, a high continental island.

Y9. Rainfall, 2,005 mm

Y10. Elevation, 26 m

Y11. Townsville City Council

[145.]

- X1. 18-057 Albino (White) Rock Reef
X2. 18° 46'S 146° 43'E
X4. 1 ha
X5. Incipient fringing reef.

[146.]

- Y1. 18-057-Y042 Albino (White) Rock
Y2. 18° 46.4'S 146° 43.1'E
Y4. 0.2 ha
Y6. S.L. 18992
Area: 0.2 ha; terms: 30 years expires 31/12/82 (no more recent info.);
lessee: Commonwealth of Australia.
Y7. Navigational light.
Y8. Geologically, a high continental island. Very small, steep and apparently
granitic. Almost devoid of vegetation except for very sparse grasses.
Y10. Elevation, 23 m
Y11. Townsville City Council
Y15. 5 spp. of sea or shore birds: breeding - Osprey, Silver Gull, Crested Tern;
non-breeding - Brown Gannet, Noddy.

[147.]

- X1. 18-093 U/N
X2. 18° 46'S 147° 56'E
X4. 380 ha
X5. Reef patches.

18° 47'S

[148.]

- X1. 18-060 Dido Rock Reef
X2. 18° 47'S 146° 31'E
X4. 1 ha
X5. Fringing reef.

[149.]

- Y1. 18-060-Y036 Dido Rock
Y2. 18° 46.6'S 146° 30.6'E
Y8. Geologically, high continental.
Y10. Elevation, 6 m

[150.]

- X1. 18-062 Brisk, Falcon (Carbooroo, Culgarool) Islands Reef
X2. 18° 47'S 146° 32'E
X4. 50 ha
X5. Fringing reef.
X62. Less popular with user groups (Domm 1977).

[151.]

- Y1. 18-062-Y038 Falcon (Carbooroo) Island
- Y2. 18° 46.2'S 146° 31.9'E
- Y3. Palm Islands Group.
- Y4. 16.2 ha
- Y6. Aboriginal Reserve R.216 (part) (Gov. Gaz. 1968-2-734).
- Y8. Geologically, a high continental island; shares reef with Brisk Island.
- Y9. Rainfall, 1,650 mm
- Y10. Elevation, 59 m
- Y11. Townsville City Council

[152.]

- Y1. 18-062-Y043 Brisk (Culgarool) Island
- Y2. 18° 47.2'S 146° 32.4'E
- Y3. Palm Islands Group
- Y4. 44.5 ha
- Y6. Aboriginal Reserve R.216. (part) (Gov. Gaz. 1968-2-734).
- Y8. Geologically, a high continental island. Has a wooded and grassy summit which slopes to a sandy point at its' N end. Shares reef with Falcon Island.
- Y10. Elevation, 70 m
- Y11. Townsville City Council

[153.]

- X1. 18-063 Chilcott Rocks Reef
- X2. 18° 47'S 146° 43'E
- X4. 1 ha
- X5. Incipient fringing reef.

[154.]

- Y1. 18-063-Y044 Chilcott Rocks
- Y2. 18° 47.5'S 146° 43.9'E
- Y8. Geologically high continental; two rocks lying close together, steep and devoid of vegetation.
- Y10. Elevation, 2 m

[155.]

- X1. 18-091 Lynch's Reef
- X2. 18° 47'S 147° 43'E
- X4. 3690 ha
- X5. Reef patches.
- X62. Moderately popular with user groups (Domm 1977).

[156.]

- X1. 18-094 U/N
- X2. 18° 47'S 147° 52'E
- X4. 440 ha
- X5. Reef patches.

18° 48'S

[157.]

- X1. 18-095 Wheeler Reef
- X2. 18° 48'S 147° 32'E
- X4. 190 ha
- X5. Planar reef with sand cay. Characteristic of a reef just reaching planar stage. Reef flat is very close to tidal datum, and consists of small coral colonies of great species variety growing densely around the rim and becoming more scattered towards the lee side, where a sandy floor is interspersed. Small areas of algal pavement on E side. Small unvegetated sand cay is present on leeward side of reef.
- X20. Very good diving.
- X62. More popular with user groups (Domm 1977).
- X63. A small unvegetated cay on the reef was destroyed by cyclone Althea in 1971, burying several ha of coral. Acropora beds in up to 20 m depth were fragmented by the storm (Hopley 1982).
- X64. Harvey (1978); Hopley (1978a); Hopley (1978b); Isdale (1978).
- X65. Olafson (1978) found trace levels of lindane & DDE in Acropora and Fungia corals; and lindane in fish and Iridacna clams. Wheeler Reef was the most frequently nominated by respondents in Domm's (1977) survey as worthy of marine national park status, and one where clashes between different user groups could occur.

[158.]

- X1. 18-097 U/N
- X2. 18° 48'S 147° 59'E
- X4. 20 ha
- X5. Submerged reef.

18° 49'S

[159.]

- X1. 18-051 Pandora Reef
- X2. 18° 49'S 146° 26'E
- X4. 60 ha
- X5. Planar reef with shingle cay. Reef is 1-2 km long on a E-W axis. Much of the reef flat is shingle covered and rubble covered. Low shingle ramparts occur towards the windward margin of the flat. The reef contains a linear unvegetated sand cay (Pandora Cay).
- X62. Moderately popular with user groups (Domm 1977).
- X64. Done (1982)
Williams (1982)

18-064-Y045 Fly Island

18° 49.8'S 146° 31.6'E

See Fly Island Reef, 18° 50'S 146° 32'E

[160.]

- X1. 18-107 U/N
- X2. 18° 49'S 148° 02'E
- X4. 60 ha
- X5. Reef patches.

18° 50'S

[161.]

- X1. 18-064 Fly Island Reef
- X2. 18° 50'S 146° 32'E
- X4. 10 ha
- X5. Fringing reef.

[162.]

- Y1. 18-064-Y045 Fly Island
- Y2. 18° 49.8'S 146° 31.6'E
- Y3. Palm Islands Group
- Y4. 2.8 ha
- Y6. Vacant Crown Land
- Y8. Geologically, a high continental island covered with a low scrub.
- Y9. Rainfall, 1650 mm
- Y10. Elevation, 35 m
- Y11. Townsville City Council

[163.]

- X1. 18-065 Havannah Island Reef
- X2. 18° 50'S 146° 33'E
- X4. 30 ha
- X5. Fringing reef.
- X62. Less popular with user groups (Domm, 1977).

[164.]

- Y1. 18-065-Y046 Havannah Island
- Y2. 18° 50.5'S 146° 32.6'E
- Y4. 130 ha
- Y6. Aboriginal Reserve R. 216 (part) (Gov. Gaz. 1968-2-734)
- Y8. Geologically, a high continental island. Island has two peaks separated by a low saddle. The NW peak has a flattish top and slopes to a sandy point at the NW end of the island.
- Y9. Rainfall, 1780 mm
- Y10. Elevation, 155 m
- Y11. Townsville City Council

[165.]

- X1. 18-096 Davies Reef
X2. 18° 50'S 147° 39'E
X4. 1380 ha
X5. A lagoonal platform reef with considerable back reef development, measuring 5.8 x 2.6 km.
X6. Wilkinson (1981) recorded over 20 spp. sponges on the reef slope.
X19. Good diving.
X24. Good sheltered anchorage.
X62. More popular with user groups in this region (Domm, 1977).
X64. Gentien (1981).
X65. Olafson (1978) found trace amounts of lindane, heptachlor and heptachlor epoxide in Acropora and Fungia corals; lindane and dieldrin in fish; and lindane in Tridacna clams.

[166.]

- X1. 18-098 U/N
X2. 18° 50'S 147° 58'E
X4. 20 ha
X5. Submerged reef.

[167.]

- X1. 18-109 U/N
X2. 18° 50'S 148° 04'E
X4. 10 ha
X5. Submerged reef.

[168.]

- X1. 18-108 U/N
X2. 18° 50'S 148° 07'E
X4. 40 ha
X5. Submerged reef.

[169.]

- X1. 18-110 U/N
X2. 18° 51'S 148° 04'E
X4. 20 ha
X5. Submerged reef.

18° 51'S

[170.]

- X1. 18-111 Eagle Reef
X2. 18° 51'S 148° 09'E
X4. 120 ha
X5. Crescentic reef.

Wells (1955) noted the following coral genera present:

Oxypora, Pectinia, Pachyseris, Duncanopsammia, Polyphyllia, Moseleya,
Euphyllia, Alveopora, Mycedium, Merulina, Seriatopora, Galaxea, Leptoria,
Symphyllia, Hydnophora, Stylophora, Lobophyllia, Goniastrea, Leptastrea,
Porites, Fungia, Cycloseris, Goniopora, Favia, Acropora, Platygyra,
Favites, Montipora, Cyphastrea, Pavona, Pocillopora, Turbinaria.

18° 52'S

[171.]

- X1. 18-099 U/N
X2. 18° 52'S 147° 53'E
X4. 1250 ha
X5. Crescentic reef.

[172.]

- X1. 18-112 Viper Reef
X2. 18° 52'S 148° 12'E
X4. 190 ha
X5. Crescentic reef.

X6. Wallace (1978) noted the following Acropora corals: A. abrotanoides, A. formosa, A. hyacinthus, A. cytherea, A. cerealis, A. florida, A. squarrosa and A. austra.

18° 53'S

[173.]

- X1. 18-113 U/N
X2. 18° 53'S 148° 14'E
X4. 10 ha
X5. Submerged reef.

18° 54'S

[174.]

- X1. 18-104 U/N
X2. 18° 54'S 147° 52'E
X4. 60 ha
X5. Submerged reef.

[175.]

- X1. 18-103 U/N
- X2. 18° 54'S 147° 54'E
- X4. 60 ha
- X5. Reef patches.

[176.]

- X1. 18-102 U/N
- X2. 18° 54'S 147° 55'E
- X4. 60 ha
- X5. Submerged reef.

[177.]

- X1. 18-114 U/N
- X2. 18° 54'S 148° 14'E
- X4. 10 ha
- X5. Submerged reef.

18° 55'S

[178.]

- X1. 18-100 Big Broadhurst Reef
- X2. A, 18° 55'S 147° 45'E
B, 18° 55'S 147° 45'E
NW co-ordinates, 18° 55'S 147° 45'E
- X4. A, 8120 ha
B, 120 ha
Total, 8240 ha
- X5. A, crescentic reef; B, submerged reef.
Wallace and Bull (1981) distinguished four major zones:
(1.) outer reef flat, with high diversity, high cover, dominated by Acropora; (2.) reef crest, with high cover but lower diversity than the flat or slope, and dominated by A. hyacinthus and A. intermedia; (3.) upper slope, to 9m depth, with high cover and diversity dominated by Acropora; (4.) mid-slope, 9-15m depth, with slightly lower diversity and much lower cover, and where Acropora does not dominate.
- X6. Acropora multiacuta abundant only here (J.E. Veron, pers. comm.)
Wallace (1978) recorded 34 spp. of Acropora corals (not including the latter sp.).
- X15. Very good reef fishing.
- X20. Very good diving.
- X24. Good sheltered anchorage.
- X62. Comfortable anchorage along NW and W faces of the reef.
Popular with fishing charter boats (Lucas, 1974).
More popular with user groups in this region (Domm, 1977).
- X63. Only slightly affected by the Crown-of-Thorns (Domm, 1977).
- X64. Wallace (1982)
- X65. Olafson (1978) found trace quantities of lindane in Acropora and Fungia corals, fish and Iridacna clams.

[179.]

- X1. 18-105 U/N
- X2. A, 18° 55'S 147° 54'E
B, 18° 56'S 147° 55'E
NW co-ordinates, 18° 55'S 147° 54'E
- X4. A, 380 ha
B, 250 ha
Total, 630 ha
- X5. Reef patches.

[180.]

- X1. 18-101 U/N
- X2. 18° 55'S 147° 57'E
- X4. 1940 ha
- X5. Crescentic reef.

18° 56'S

- 18-105 U/N Reef B
18° 56'S 147° 55'E
See U/N Reef A, 18° 55'S 147° 54'E

[181.]

- X1. 18-115 Jupiter Reef
- X2. 18° 56'S 148° 15'E
- X4. 190 ha
- X5. Crescentic reef.

[182.]

- X1. 18-116 U/N
- X2. 18° 56'S 148° 20'E
- X4. 40 ha
- X5. Submerged reef.

18° 57'S

[183.]

- X1. 18-118 Shrimp Reef
- X2. 18° 57'S 148° 05'E
- X4. 750 ha
- X5. Crescentic reef.
- X62. Less popular with user groups (Domm, 1977).

[184.]

- X1. 18-117 U/N
- X2. 18° 57'S 148° 17'E
- X4. 120 ha
- X5. Submerged reef.

[185.]

- X1. 18-119 Lion Reef
- X2. 18° 57'S 148° 22'E
- X4. 60 ha
- X5. Reef patches.

18° 58'S

[186.]

- X1. 18-067 Phillips Reef
- X2. 18° 58'S 146° 37'E
- X4. 10 ha
- X5. Submerged reef.
- X62. Used as bombing range.

[187.]

- Y1. 18-067-Y047 U/N Rock
- Y2. 18° 58.7'S 146° 37.1'E
- Y8. Geologically high continental; submerged rock on Phillips Reef.

[188.]

- X1. 18-066 Acheron Island Reef
- X2. 18° 58'S 146° 38'E
- X4. 10 ha
- X5. Fringing reef.
- X62. Used as bombing range.

[189.]

- Y1. 18-066-Y048 Acheron Island
- Y2. 18° 58.0'S 146° 38.3'E
- Y4. 283 ha
- Y6. Vacant Crown Land
- Y7. RAAF bombing and gunnery range.
- Y8. Geologically, a high continental island. E tip of island is steep and rocks fringe the S side of island. Two grassy hills, one on E and the other on the W of the island are separated by a valley with a small hillock in its centre.
- Y9. Rainfall, 1525 mm
- Y10. Elevation, 57 m
- Y11. Thuringowa Shire Council

[190.]

- X1. 18-106 Little Broadhurst Reef
X2. 18° 58'S 147° 42'E
X4. 1250 ha
X5. Lagoonal reef.
X62. Less popular with user groups (Domm, 1977).

18° 59'S

[191.]

- X1. 18-068 Cordella Rocks Reef
X2. 18° 59'S 146° 41'E
X4. 10 ha
X5. Fringing reef.

[192.]

- Y1. 18-068-Y049 Cordella Rocks
Y2. 18° 59.8'S 146° 41.0'E
Y5. Formerly an RAAF gunnery and bombing range.
Y6. Vacant Crown Land
Y8. Geologically, high continental; two rocks, the SW of which is the highest, lying close together and joined by a coral reef.
Y9. Rainfall, 1525 mm
Y10. Elevation, 24 m
Y11. Thuringowa Shire Council

[193.]

- X1. 18-120 Jaguar Reef
X2. 18° 59'S 148° 25'E
X4. 380 ha
X5. Crescentic reef.

19° 00'S

19° 01'S

[194.]

- X1. 19-001 Bramble Rock Reef
- X2. 19° 01'S 146° 37'E
- X4. 1 ha
- X5. Incipient fringing reef.

[195.]

- Y1. 19-001-Y001 Bramble Rock
- Y2. 19° 01.5'S 146° 37.7'E
- Y5. Previously part of an air gunnery and bombing range.
- Y6. Vacant Crown Land.
- Y8. Geologically high continental; fringed with rocks.
- Y10. Elevation, 6 m
- Y11. Thuringowa Shire Council

19-002-Y002 Herald Island

19° 01.8'S 146° 38.1'E

See Herald Island Reef, 19° 02'S 146° 38'E

[196.]

- X1. 19-024 Prawn Reef
- X2. 19° 01'S 148° 07'E
- X4. 1380 ha
- X5. Crescentic reef.
- X6. Wallace (1978) noted Acropora aculeus on the reef flat.
- X62. Less popular with user groups (Domm 1977).

[197.]

- X1. 19-025 Castor Reef
- X2. 19° 01'S 148° 20'E
- X4. 440 ha
- X5. Reef patches.

19° 02'S

[198.]

- X1. 19-004 Lorne Reef
- X2. 19° 02'S 146° 35'E
- X4. 1 ha
- X5. Incipient fringing reef.

[199.]

- Y1. 19-004-Y003 U/N Rock
- Y2. 19° 02.3'S 146° 34.8'E
- Y5. Bombing range.
- Y8. Geologically high continental; on Lorne Reef.

[200.]

- X1. 19-003 Rattlesnake Island Reef
- X2. 19° 02'S 146° 37'E
- X4. 120 ha
- X5. Fringing reef, the majority of which is covered by dead coral which appears to have been recently killed (Hopley, 1982).

[201.]

- Y1. 19-003-Y004 Rattlesnake Island
- Y2. 19° 02.1'S 146° 36.6'E
- Y4. 202 ha
- Y5. Previously an air gunnery and bombing range.
- Y6. 2 tenure areas:
 - 1. Freehold C.T. Vol.N. 250, Folio 245
Area, 20.3 ha; owner, D.V. Logan, 25 Simla Rd., West Ryde, 2114.
 - 2. Vacant Crown Land.
Area, 182 ha
- Y8. Geologically high continental; E tip of island is steep, and the island rises to a rounded grassy summit.
- Y9. Rainfall, 1525 mm
- Y10. Elevation, 121 m
- Y11. Thuringowa Shire Council
- Y18. Anchorage in SE winds may be found 1 km NW of the island in 7-9 m depth.

[202.]

- X1. 19-002 Herald Island Reef
- X2. 19° 02'S 146° 38'E
- X4. 60 ha
- X5. Fringing reef.

[203.]

- Y1. 19-002-Y002 Herald Island
- Y2. 19° 01.8'S 146° 38.1'E
- Y5. Formerly a bombing and gunnery range for RAAF.
- Y6. Vacant Crown Land.
- Y8. Geologically high continental island. NE coastline is steep and the S coast is rock-fringed with drying reef extending from its' W side. SW extremity of the island is a sandy point. The island rises to form two rounded grassy hills.
- Y9. Rainfall, 1525 mm
- Y10. Elevation, 53 m
- Y11. Thuringowa Shire Council
- Y18. Anchorage is medium over shoaling sand and reef patches towards beach on SW extremity of island.

[204.]

- X1. 19-019 Bowden Reef
X2. 19° 02'S 147° 56'E
X4. 940 ha
X5. Crescentic reef.

[205.]

- X1. 19-049 Lynx Reef
X2. 19° 02'S 148° 34'E
X4. 120 ha
X5. Crescentic reef.

19° 03'S

[206.]

- X1. 19-027 Pollux Reef
X2. 19° 03'S 147° 19'E
X4. 500 ha
X5. Reef patches.

[207.]

- X1. 19-026 U/N
X2. 19° 03'S 148° 27'E
X4. 120 ha
X5. Reef patches.

19° 04'S

[208.]

- X1. 19-028 Shell Reef
X2. 19° 04'S 147° 11'E
X4. 250 ha
X5. Crescentic reef.

[209.]

- X1. 19-029 Mid Reef
X2. 19° 04'S 148° 05'E
X4. 620 ha
X5. Crescentic reef.

19° 05'S

[210.]

- X1. 19-030 U/N
- X2. 19° 05'S 148° 12'E
- X4. 120 ha
- X5. Reef patches.

[211.]

- X1. 19-031 Crotan Reef
- X2. 19° 05'S 148° 14'E
- X4. 250 ha
- X5. Reef patches.

[212.]

- X1. 19-035 U/N
- X2. 19° 05'S 148° 26'E
- X4. 250 ha
- X5. Submerged reef.

19° 06'S

[213.]

- X1. 19-005 Paluma Shoals
- X2. 19° 06'S 146° 33'E
- X4. 190 ha
- X5. Submerged reef.

[214.]

- X1. 19-009 White Rock (Magnetic Island G) Reef
- X2. 19° 06'S 146° 50'E
- X4. 60 ha
- X5. Incipient fringing reef of Magnetic Island.

Wells (1955) noted the following coral genera present:

Synaraea, Caulastrea, Pectinia, Euphyllia, Echinophyllia, Merulina,
Astreopora, Millepora, Echinopora, Leptoria, Hydnophora, Stylophora,
Lobophyllia, Porites, Cycloseris, Acropora, Favites, Montipora, Cyphastrea,
Pavona, Pocillopora, Turbinaria.

[215.]

- Y1. 19-009-Y005 White Rock
- Y2. 19° 06.4'S 146° 50.0'E
- Y3. Palm Islands
- Y7. Navigational light.
- Y8. Geologically, high continental; unvegetated island on White Rock (Magnetic Island G) Reef.
- Y9. Rainfall, 1780 mm
- Y10. Elevation, 8 m
- Y11. Townsville City Council

[216.]

- X1. 19-009 Magnetic Island Reefs
- X2. B (Nelly Bay Reef), 19° 10'S 146° 51'E
D (Arthur or Florence Bay Reef), 19° 08'S 146° 53'E
E (Gowrie Bay Reef), 19° 07'S 146° 53'E
F (Balding Bay Reef), 19° 06'S 146° 52'E
NW co-ordinates, 19° 06'S 146° 52'E
- X4. B, 120 ha
D, 60 ha
E, 60 ha
F, 120 ha
Total, 360 ha
- X5. Fringing reefs. Other fringing reefs listed separately.
Wells (1955) noted the following coral genera present:
Oxypora, Pectinia, Pachyseris, Duncanopsammia, Polyphyllia, Moseleya,
Euphyllia, Alveopora, Mycedium, Merulina, Seriatopora, Galaxea, Leptoria,
Symphyllia, Hydnophora, Stylophora, Lobophyllia, Goniastrea, Leptastrea,
Porites, Fungia, Cycloseris, Goniopora, Favia, Acropora, Platygyra,
Favites, Montipora, Cyphastrea, Pavona, Pocillopora, Turbinaria.
- X62. Less popular with user groups (Domm, 1977).
- X63. From 1961 dredges began dumping large quantities of silt close to Magnetic Island, resulting in the destruction of many reefs in the E bays of the island (Brown, 1973; Bennett, 1971).
- X64. Bull (1982); Smith (1978);
Willis (1982); Withers (1930).

[217.]

- X1. 19-009 Geoffrey Bay (Magnetic Island C) Reef
- X2. 19° 09'S 146° 52'E
- X4. 120 ha
- X5. Fringing reef. The reef slope extends over 150 m from the reef crest, behind which the reef flat extends a further 150 m. There is extensive back reef sand/mud flats. Coral cover only averages 5% on the reef flat and crest, mainly Goniastrea aspera, Platygyra sinensis and Montipora ramosa, with Porites australensis, P. solida, P. lobata, Symphyllia recta, Goniastrea favulus, Platygyra pini and Turbinaria mesenterina also being present. Macroalgae were an important feature.
On the reef slope Acropora spp. (specifically A. formosa and A. hyacinthus) and Montipora sp. were dominant. Other spp. present included other tabulate and arborescent Acropora, other foliose and encrusting Montipora spp., also Favia speciosa, Stylophora pistillata and Pachyseris speciosa. Coral cover averaged 26%.
- X64. Bull (1982);
Morrissey (1980).

[218.]

- X1. 19-009 Cockle Bay (Magnetic Island A) Reef
- X2. 19° 11'S 146° 49'E
- X4. 620 ha
- X5. Fringing reef of Magnetic Island. The reef in this bay is generally reduced in terms of number of species and has a lower coral cover on the reef slope, compared to Geoffrey Bay, because of markedly greater siltation and turbidity here. The reef slope, dominated by Goniopora tenuidens, averages

13% coral cover. Other spp. present include Porites mayeri, Favia fava, Turbinaria mesenterata and Merulina ampliata. On the outer reef flat and crest, cover averages 10%, mainly Platygyra sinensis and Symphyllia recta with Lobophyllia hemprichii, Turbinaria mesenterata and Porites lobata. On the inner reef flat, coral cover averages 33%, mainly Montipora ramosa, with some Goniastrea aspera and Porites lobata.

X64. Bull (1982).

[219.]

Y1. 19-009-Y009 Magnetic Island

Y2. 19° 08.4'S 146° 49.8'E

Y4. 5184 ha

Y5. Named by Capt. Cook because of a magnetic anomaly in the area.

First permanent resident was Harry Butler (in 1877) who set up a quarantine station for immigrants. First settlements were at Nelly Bay (Bright family growing tropical fruits), Horseshoe Bay (group of farmers established pineapple plantations) and Geoffrey Bay (where the Hayles family bought in 1899).

Much of the island within the National Park was destroyed by a 1972 bushfire.

Y6. Major tenure area is National Park 456 (Gov. Gaz. 1954-2-1364); area, 2533 ha. Other areas (hundreds of lease and freehold allotments for commercial and residential purposes) make up approximately half of total area. Recommended Buffer Zone (Beach Prot. Auth.) on shoreline (Lands Dept. Batch 1435).

Proposed National Park extensions on NE and NW coastal plains (see File 75.2392, Forestry Dept.).

Y7. Settlements at Horseshoe Bay, Alma Bay, Nelly Bay, Picnic Bay, Bolger Bay and West Point on E and S sides.

Motels and/or flats at Alma Bay (1), Arcadia (8), Horseshoe Bay (3), Nelly Bay (1) and Picnic Bay (3) plus state school, post office, shops. There is a resort at Nelly Bay and Radical Bay.

Population approximately 2000 (permanent).

Y8. Geologically high continental, large granite island, roughly triangular in shape, with 40 km of coastline. Centre of island is steep and rugged and virtually untouched. There are areas of rainforest in the central part, while on W-NW side is a large area of open eucalypt forest and mangroves. Hoop pines dominate the granite ridges and headlands.

Y9. Rainfall, 1270 mm

Y10. Elevation, 495 m

Y11. Townsville City Council

Y12. No camping allowed in National Park, although there is a Boy Scout camping area at Florence Bay. No camping areas elsewhere on the island.

Y13. Scenic value - 3

Y14. Naturalness value - 2

Y15. 142 spp. of birds recorded here (Edgecombe, 1977) as well as 7 spp. of frogs, 16 spp. of butterflies. Mammals include Brush-tailed Possum, Plain Rock Wallaby, Echidna, Water Rat, Koala (introduced from mainland). Feral cats are a serious problem, also goats and pigs.

Although Edgecombe (1977) did not identify bird species, below are 62 spp. from Kikkawa (1976):

7 spp. sea or shore birds: breeding - Reef Heron, White-breasted Sea Eagle, Red-backed Sea Eagle, Southern Stonecurlew; non-breeding - Pied Oystercatcher, Little Whimbrel, Common Sandpiper.

55 spp. land birds: breeding - Green-winged Pigeon, Diamond Dove, Peaceful Dove, Brown Pigeon, Sulphur-crested Cockatoo, Pheasant Coucal, Blue-winged Kookaburra, Forest Kingfisher, Welcome Swallow, Black-faced Cuckoo-Shrike,

White-throated Warbler, Spectacled Flycatcher, Leaden Flycatcher, Shining Flycatcher, Rufous Shrike-Thrush, Rufous Whistler, Rufous Fantail, Mistletoe Bird, Yellow-breasted Sunbird, Grey-breasted Silvereye, Dusky Honeyeater, Noisy Friarbird, Helmeted Friarbird, Red-browed Finch, Banded Finch, Olive-backed Oriole, Yellow Figbird, Magpie Lark, Pied Butcher-bird, Pied Currawong; non-breeding - Jabiru, Australian Goshawk, Wedge-tailed Eagle, Nankeen Kestrel, Dusky Moorhen, Swamphen, Eastern Golden Plover, Torres Strait Pigeon, Bar-shouldered Dove, Rainbow Lorikeet, Pallid Cuckoo, Koel, Boobook Owl, Sacred Kingfisher, Rainbow Bird, Dollarbird, Fairy Martin, White-eared Flycatcher, Black-faced Flycatcher, Satin Flycatcher, Grey Fantail, Willie Wagtail, Silver-crowned Friarbird, Southern Figbird, Spangled Drongo.

- Y16. Blue Ulysses and Cairns Birdwing butterflies - rare species.
Birds: Diamond Dove - 1 of 2 GBR breeding sites; Peaceful Dove - 1 of 3 GBR breeding sites; Brown Pigeon - 1 of 2 GBR records and breeding sites; Pallid Cuckoo - only GBR record; Koel - 1 of 2 GBR breeding sites; Blue-winged Kookaburra - only GBR breeding site; Fairy Martin - 1 of 3 GBR records; White-throated Warbler - only GBR record and breeding site; Shining Flycatcher - 1 of 2 records; Rufous Fantail - 1 of 3 GBR breeding sites; Noisy Friarbird - 1 of 3 GBR records; Helmeted Friarbird - 1 of 2 GBR records; Red-browed Finch - only GBR record; Banded Finch - only GBR record; Yellow Figbird - 1 of 2 GBR breeding sites; Southern Figbird - only GBR breeding site; Spangled Drongo - 1 of 2 GBR breeding sites; Pied Butcher-bird - 1 of 2 GBR records.
- Y17. Jetty at Bremer Point.
- Y18. Anchorage in 5 m water over sand in Horseshoe Bay.
- Y19. Heinsohn (1973); Maitland (1892); Spenceley (1982); Withers (1930).
- Y20. 22 km of walking tracks on the island.

[220.]

- Z1. 19-009-Z009-1 Mediterranean Holiday Village
Z2. Magnetic Island
Z10. Initial establishment costs - \$2 million
Z12a. Maximum overnight accomodation - 250
Z28. Golf
Z29. Swimming
Z35. Water from mainland supply.
Z39. Electricity drawn from mainland grid.
Z48. Phone number - (077) 785 200; telex - Medvil 47000
Z50. Other resort activies include sauna.

[221.]

- Z1. 19-009-Z009-2 Radical Bay Resort
Z2. Magnetic Island
Z20. Coral viewing
Z21. Bushwalks
Z22. Line fishing
Z35. Water from mainland supply.
Z39. Electricity drawn from mainland grid.
Z47. Address - c/- P.O. Arcadia Q 4816
Z48. Phone number - (077) 785 294

[222.]

- X1. 19-006 Orchard Rocks Reef
- X2. 19° 06'S 146° 53'E
- X4. 1 ha
- X5. Incipient fringing reef.

[223.]

- Y1. 19-006-Y006 Orchard Rocks
- Y2. 19° 06.7'S 146° 52.9'E
- Y6. Vacant Crown Land
- Y8. Geologically high continental.
- Y10. Elevation, 18 m
- Y11. Townsville City Council

[224.]

- X1. 19-032 U/N
- X2. 19° 06'S 148° 15'E
- X4. 190 ha
- X5. Reef patches.

[225.]

- X1. 19-033 U/N
- X2. 19° 06'S 148° 16'E
- X4. 60 ha
- X5. Reef patches.

[226.]

- X1. 19-034 U/N
- X2. 19° 06'S 148° 17'E
- X4. 440 ha
- X5. Crescentic reef.

[227.]

- X1. 19-036 U/N
- X2. 19° 06'S 148° 19'E
- X4. 440 ha
- X5. Reef patches.

[228.]

- X1. 19-050 Leopold Reef
- X2. 19° 06'S 148° 42'E
- X4. 500 ha
- X5. Reef patches.

19-008-Y007 Burdekin Rock

19° 07.8'S 146° 42.5'E

See Burdekin Rock Reef, 19° 08'S 146° 42'E

[229.]

X1. 19-007 Bay Rock Reef

X2. 19° 07'S 146° 45'E

X4. 1 ha

X5. Incipient fringing reef.

Wells (1955) noted the following coral genera present:

Oxypora, Pectinia, Pachyseris, Duncanopsammia, Polyphyllia, Moseleya,
Euphyllia, Alveopora, Mycedium, Merulina, Seriatopora, Galaxea, Leptoria,
Symphyllia, Hydnophora, Stylophora, Lobophyllia, Goniastrea, Leptastrea,
Porites, Fungia, Cycloseris, Goniopora, Favia, Acropora, Platygyra,
Favites, Montipora, Cyphastrea, Pavona, Pocillopora, Turbinaria.

X16. Reputed to be excellent mackerel fishing.

X21. No sheltered anchorage.

[230.]

Y1. 19-007-Y008 Bay Rock

Y2. 19° 07.1'S 146° 45.3'E

Y4. 2 ha

Y5. One of the earliest manned lighthouses on this section of coast.

Y6. Lighthouse Transferred Property No. 10 (Commonwealth of Australia).

Y7. Unmanned navigational light.

Y8. Geologically high continental.

Y10. Elevation, 24 m

Y11. Townsville City Council

[231.]

X1. 19-037 U/N

X2. 19° 07'S 148° 18'E

X4. 120 ha

X5. Reef patches.

[232.]

X1. 19-038 Dingo Reef

X2. A, 19° 13'S 148° 19'E

B, 19° 11'S 148° 22'E

C, 19° 09'S 148° 19'E

D (Tabias, Tobias Reef), 19° 07'S 148° 21'E

E, 19° 07'S 148° 22'E

F, 19° 07'S 148° 22'E

NW co-ordinates, 19° 07'S 148° 21'E

X4. A, 2440 ha

B, 4610 ha

C, 1750 ha

D, 690 ha

E, 1060 ha

F, 13830 ha

Total, 24,380 ha

- X5. A, lagoonal reef.
- B, crescentic reef.
- C, D, E and F, reef patches.
- A drying reef on the middle of the S side of an oval-shaped reef enclosing a lagoon studded with boulders.

[233.]

- X1. 19-051 Tiger Reef
- X2. 19° 07'S 148° 42'E
- X4. 310 ha
- X5. Reef patches.

19° 08'S

[234.]

- X1. 19-008 Burdekin Rock Reef
- X2. 19° 08'S 146° 42'E
- X4. 1 ha
- X5. Incipient fringing reef.

[235.]

- Y1. 19-008-Y007 Burdekin Rock
- Y2. 19° 07.8'S 146° 42.5'E
- Y6. Vacant Crown Land.
- Y11. Townsville City Council

19-009-Y009 Magnetic Island

19° 08.4'S 146° 49.8'E

See Magnetic Island Reef G, 19° 06'S 146° 50'E

[236.]

- X1. 19-039 U/N
- X2. 19° 08'S 148° 11'E
- X4. 120 ha
- X5. Crescentic reef.

[237.]

- X1. 19-040 U/N
- X2. 19° 08'S 148° 11'E
- X4. 60 ha
- X5. Reef patches.

[238.]

- X1. 19-052 U/N
- X2. 19° 08'S 148° 55'E
- X4. 250 ha
- X5. Reef patches.

[239.]

- X1. 19-053 U/N
- X2. 19° 08'S 148° 55'E
- X4. 120 ha
- X5. Reef patches.

19° 09'S

- 19-009 Geoffrey Bay (Magnetic Island C) Reef
19° 09'S 146° 52'E
See Magnetic Island Reefs, 19° 06'S 146° 50'E

[240.]

- X1. 19-020 Morinda Shoal
- X2. 19° 09'S 147° 38'E
- X4. 120 ha
- X5. Submerged reef.
- X62. Less popular with user groups (Domm, 1977).

- 19-038 Dingo Reef C
19° 09'S 148° 19'E
See Dingo Reef D (Tabias, Tobias), 19° 07'S 148° 21'E

[241.]

- X1. 19-055 U/N
- X2. 19° 09'S 148° 52'E
- X4. 60 ha
- X5. Submerged reef.

19° 10'S

- 19-013-Y010 U/N Rock
19° 10.9'S 147° 03.6'E
See Salamander Reef, 19° 11'S 147° 04'E

[242.]

- X1. 19-056 U/N
- X2. 19° 10'S 148° 56'E
- X4. 120 ha
- X5. Reef patches.

19° 11'S

- 19-009 Cockle Bay (Magnetic Island A) Reef
19° 11'S 146° 49'E
See Magnetic Island Reefs, 19° 06'S 146° 50'E

[243.]

- X1. 19-010 U/N
- X2. 19° 11'S 146° 50'E
- X4. 120 ha
- X5. Submerged reef.

[244.]

- X1. 19-230 Cape Cleveland Reef
- X2. 19° 11'S 147° 01'E
- X5. Wells (1955) noted the following coral genera present:
Podabacia, Oxypora, Trachyphyllia, Pseudosiderastrea, Moseleya, Montipora,
Pavona, Plesiastrea.

- 19-015-Y011 Twenty Foot Rock
19° 11.9'S 147° 01.8'E
See Twenty Foot Rock Reef, 19° 12'S 147° 02'E

[245.]

- X1. 19-014 Four Foot Rock Reef
- X2. 19° 11'S 147° 03'E
- X4. 1 ha
- X5. Incipient fringing reef.

[246.]

- Y1. 19-014-Y012 Four Foot Rock
- Y2. 19° 11.5'S 147° 02.9'E
- Y6. Vacant Crown Land.
- Y8. Geologically high continental.
- Y11. Thuringowa Shire Council

[247.]

- X1. 19-013 Salamander Reef
X2. 19° 11'S 147° 04'E
X4. 60 ha
X5. Incipient fringing reef.
X62. Less popular with user groups (Domm, 1977).

[248.]

- Y1. 19-013-Y010 U/N Rock
Y2. 19° 10.9'S 147° 03.6'E
Y8. Geologically high continental; on Salamander Reef.
Y10. Elevation, -2.3 m

[249.]

- Y1. 19-013-Y013 U/N Rock
Y2. 19° 11.1'S 147° 03.4'E
Y8. Geologically high continental; on Salamander Reef.
Y10. Elevation, -1.7 m

[250.]

- X1. 19-041 U/N
X2. 19° 11'S 148° 09'E
X4. 120 ha
X5. Lagoonal reef.

- 19-039 Dingo Reef B
19° 11'S 148° 22'E
See Dingo Reef D (Tabias, Tobias), 19° 07'S 148° 21'E

[251.]

- X1. 19-058 U/N
X2. 19° 11'S 148° 57'E
X4. 120 ha
X5. Crescentic reef.

[252.]

- X1. 19-011 Middle Reef
X2. 19° 12'S 146° 49'E
X4. 120 ha
X5. Planar reef.
X62. Light and beacon on reef.

19° 12'S

[253.]

- X1. 19-015 Twenty Foot Rock Reef
X2. 19° 12'S 147° 02'E
X4. 1 ha
X5. Incipient fringing reef.

[254.]

- Y1. 19-015-Y011 Twenty Foot Rock
Y2. 19° 11.9'S 147° 01.8'E
Y6. Vacant Crown Land.
Y8. Geologically high continental.
Y11. Thuringowa Shire Council

[255.]

- X1. 19-057 U/N
X2. 19° 12'S 148° 36'E
X4. 120 ha
X5. Reef patches.

[256.]

- X1. 19-059 U/N
X2. 19° 12'S 148° 52'E
X4. 120 ha
X5. Crescentic reef.

19° 13'S

[257.]

- X1. 19-012 Virago Shoal
X2. 19° 13'S 146° 47'E
X4. 120 ha
X5. Submerged reef.

[258.]

- X1. 19-042 U/N
X2. 19° 13'S 148° 05'E
X4. 120 ha
X5. Reef patches.

[259.]

- X1. 19-043 Darley Reef
X2. 19° 13'S 148° 10'E
X4. 8130 ha
X5. Lagoonal reef.
X6. Wallace (1978) noted 21 spp. of Acropora corals on this reef.
X18. Moderate diving value.
X62. Moderately popular with user groups in this region (Domm, 1977).

Reef is subject to very clouded water, even in moderate weather (Wallace, 1979).

19-038 Dingo Reef A
19° 13'S 148° 19'E
See Dingo Reef D (Tabias, Tobias), 19° 07'S 148° 21'E

[260.]

X1. 19-054 Kangaroo Reef
X2. 19° 13'S 148° 33'E
X4. 4250 ha
X5. Crescentic/submerged reef. A diamond-shaped drying reef which encloses a lagoon of foul ground.

[261.]

X1. 19-060 U/N
X2. 19° 13'S 148° 36'E
X4. 60 ha
X5. Submerged reef.

[262.]

X1. 19-062 U/N
X2. 19° 13'S 148° 49'E
X4. 120 ha
X5. Submerged reef.

[263.]

X1. 19-061 Jacqueline Reef
X2. 19° 13'S 148° 54'E
X4. 620 ha
X5. Crescentic reef.

[264.]

X1. 19-077 U/N
X2. 19° 13'S 149° 01'E
X4. 380 ha
X5. Crescentic reef.

[265.]

X1. 19-078 U/N
X2. 19° 13'S 149° 06'E
X4. 120 ha
X5. Crescentic reef.

19° 14'S

19-016-Y014 Bray Islet
19° 14.9'S 147° 04.0'E
See Bray Islet Reef, 19° 15'S 147° 04'E

[266.]

X1. 19-063 U/N
X2. A, 19° 14'S 148° 35'E
B, 19° 16'S 148° 40'E
NW co-ordinates, 19° 14'S 148° 35'E
X4. A, 3060 ha
B, 4690 ha
Total, 7750 ha
X5. Reef patches.

19° 15'S

[267.]

X1. 19-016 Bray Islet Reef
X2. 19° 15'S 147° 04'E
X4. 60 ha
X5. Incipient fringing reef.

[268.]

Y1. 19-016-Y014 Bray Islet
Y2. 19° 14.9'S 147° 04.0'E
Y4. 2.4 ha
Y6. Vacant Crown Land.
Y8. Geologically high continental; steep.
Y9. Rainfall, 1270 mm
Y10. Elevation, 12 m
Y11. Thuringowa Shire Council

[269.]

X1. 19-017 Bare Islet Reef
X2. 19° 15'S 147° 04'E
X4. 60 ha
X5. Incipient fringing reef.

[270.]

Y1. 19-017-Y015 Bare Islet
Y2. 19° 15.6'S 147° 04.4'E
Y4. 2 ha
Y6. Vacant Crown Land.
Y8. Geologically high continental; steep.
Y9. Rainfall, 1270 mm
Y10. Elevation, 9 m
Y11. Thuringowa Shire Council

19° 16'S

[271.]

- X1. 19-018 Bald Islet Reef
- X2. 19° 16'S 147° 04'E
- X4. 60 ha
- X5. Incipient fringing reef.

[272.]

- Y1. 19-018-Y016 Bald Islet
- Y2. 19° 16.5'S 147° 03.9'E
- Y4. 2 ha
- Y6. Vacant Crown Land.
- Y8. Geologically high continental.
- Y9. Rainfall, 1270 mm
- Y10. Elevation, 3 m
- Y11. Thuringowa Shire Council

- 19-063 U/N Reef B
- 19° 16'S 148° 40'E
- See U/N Reef A, 19° 14'S 148° 35'E

19° 17'S

[273.]

- X1. 19-044 Faith Reef
- X2. 19° 17'S 148° 21'E
- X4. 380 ha
- X5. Crescentic reef.
- X62. Less popular with user groups (Domm, 1977).

[274.]

- X1. 19-064 U/N
- X2. 19° 17'S 148° 59'E
- X4. 880 ha
- X5. Submerged reef.

[275.]

- X1. 19-080 U/N
- X2. 19° 17'S 149° 03'E
- X4. 60 ha
- X5. Submerged reef.

[276.]

- X1. 19-079 U/N
- X2. 19° 17'S 149° 06'E
- X4. 120 ha
- X5. Submerged reef.

19° 18'S

[277.]

- X1. 19-045 Stanley Reef
- X2. 19° 18'S 148° 05'E
- X4. 5810 ha
- X5. Crescentic reef approximately 12 km long. A 400m-wide reef flat surrounds 45% of the reef and is continued as a submerged feature around a further 30% of the reef. Algal pavements are developed only on windward side. Scattered reef patches are found in the lagoon, with a major feature being a deep channel in the SE rim.
- X6. Four boulders on S end.
- X62. Moderately popular with user groups (Domm, 1977).
- X65. Geochemical analysis of cores from this reef (Hopley, 1982).

[278.]

- Y1. 19-045-Y018 U/N Boulder
- Y2. 19° 19.2'S 148° 06.8'E
- Y8. On Stanley Reef.

[279.]

- Y1. 19-045-Y019 U/N Boulder
- Y2. 19° 19.2'S 148° 07.0'E
- Y8. On Stanley Reef.

[280.]

- Y1. 19-045-Y020 U/N Boulder
- Y2. 19° 19.2'S 148° 07.2'E
- Y8. On Stanley Reef.

[281.]

- Y1. 19-045-Y021 U/N Boulder
- Y2. 19° 19.2'S 148° 07.4'E
- Y8. On Stanley Reef.

19° 19'S

[282.]

- Y1. 19-000-Y017 Russel (Cape Bowling Green) Island
Y2. 19° 19.0'S 147° 25.2'E
Y4. 2.4 ha
Y6. Vacant Crown Land.
Y8. Tree-covered island linked to the mainland at low tide by a drying bank.
No fringing reef.
Y9. Rainfall, 1270 mm
Y10. Elevation, 12 m (tree line)
Y11. Burdekin Shire Council
Y18. Anchorage from SE winds under lee of island in 4m of water over shifting sand.

19-045-Y018 U/N Boulder

- 19° 19.2'S 148° 06.8'E
See Stanley Reef, 19° 18'S 148° 05'E

19-045-Y019 U/N Boulder

- 19° 19.2'S 148° 07.0'E
See Stanley Reef, 19° 18'S 148° 05'E

19-045-Y020 U/N Boulder

- 19° 19.2'S 148° 07.2'E
See Stanley Reef, 19° 18'S 148° 05'E

19-045-Y021 U/N Boulder

- 19° 19.2'S 148° 07.4'E
See Stanley Reef, 19° 18'S 148° 05'E

[283.]

- X1. 19-081 Ellen Reef
X2. 19° 19'S 149° 15'E
X4. 250 ha
X5. Reef patches.

19° 20'S

[284.]

- Y1. 19-000-Y022 Sand Island
Y2. 19° 20.5'S 147° 22.4'E
Y4. 64.7 ha
Y6. Vacant Crown Land
Y9. Rainfall, 1270 mm
Y10. Elevation, -1.5 m
Y11. Burdekin Shire Council

[285.]

- X1. 19-046 Hope Reef
X2. 19° 20'S 148° 24'E
X4. 380 ha
X5. Crescentic reef.

[286.]

- X1. 19-065 U/N
X2. 19° 20'S 148° 38'E
X4. 380 ha
X5. Reef patches.

[287.]

- X1. 19-082 Elizabeth Reef
X2. 19° 20'S 149° 03'E
X4. 750 ha
X5. Crescentic reef.
X6. Acropora levelli abundant only here and on Middleton Reef (J.E. Veron, pers. comm.).
Undescribed sp. of Merulina known only from (and abundant) here and Middleton Reef (J.E. Veron, pers. comm.).

[288.]

- X1. 19-083 U/N
X2. 19° 20'S 149° 11'E
X4. 120 ha
X5. Submerged reef.

19° 21'S

[289.]

- X1. 19-066 U/N
X2. 19° 21'S 148° 38'E
X4. 190 ha
X5. Planar reef.

[290.]

- X1. 19-069 U/N
X2. 19° 21'S 149° 00'E
X4. 120 ha
X5. Submerged reef.

[291.]

- X1. 19-085 U/N
- X2. 19° 21'S 149° 09'E
- X4. 60 ha
- X5. Submerged reef.

[292.]

- X1. 19-084 U/N
- X2. 19° 21'S 149° 13'E
- X4. 190 ha
- X5. Submerged reef.

[293.]

- X1. 19-091 Eulalie Reef
- X2. 19° 21'S 149° 25'E
- X4. 120 ha
- X5. Crescentic reef.

19° 22'S

[294.]

- X1. 19-021 Tink Shoal
- X2. 19° 22'S 147° 51'E
- X4. 120 ha
- X5. Submerged reef.

[295.]

- X1. 19-022 Wilson Shoal
- X2. 19° 22'S 147° 57'E
- X4. 120 ha
- X5. Submerged reef.
- X6. Less popular with user groups (Domm, 1977).

[296.]

- X1. 19-047 Charity Reef
- X2. 19° 22'S 148° 20'E
- X4. 380 ha
- X5. Crescentic reef.

[297.]

- X1. 19-067 U/N
- X2. 19° 22'S 148° 38'E
- X4. 120 ha
- X5. Planar reef.

[298.]

X1. 19-068 U/N
X2. 19° 22'S 148° 41'E
X4. 1000 ha
X5. Crescentic reef.

[299.]

X1. 19-070 U/N
X2. 19° 22'S 148° 43'E
X4. 60 ha
X5. Submerged reef.

[300.]

X1. 19-086 U/N
X2. 19° 22'S 149° 01'E
X4. 60 ha
X5. Submerged reef.

[301.]

X1. 19-088 U/N
X2. 19° 22'S 149° 06'E
X4. 120 ha
X5. Submerged reef.

[302.]

X1. 19-089 U/N
X2. 19° 22'S 149° 07'E
X4. 120 ha
X5. Submerged reef.

[303.]

X1. 19-087 U/N
X2. 19° 23'S 149° 02'E
X4. 60 ha
X5. Submerged reef.

[304.]

X1. 19-090 U/N
X2. 19° 23'S 149° 04'E
X4. 620 ha
X5. Submerged reef.

19° 23'S

[305.]

- X1. 19-092 U/N
- X2. 19° 23'S 149° 12'E
- X4. 380 ha
- X5. Submerged reef.

19° 24'S

[306.]

- X1. 19-048 Old Reef
- X2. 19° 24'S 148° 05'E
- X4. 6130 ha
- X5. Lagoonal reef.
- X6. Two boulders.
- X62. Moderately popular with user groups in this region (Domm, 1977).
- X65. Olafson (1978) found trace levels of lindane in Acropora and Fungia corals, fish and Iridacna clams.

[307.]

- Y1. 19-048-Y023 U/N Boulder
- Y2. 19° 25.9'S 148° 06.8'E
- Y8. On Old Reef.
- Y10. Elevation, -1.1 m

[308.]

- Y1. 19-048-Y024 U/N Boulder
- Y2. 19° 25.9'S 148° 08.0'E
- Y8. On Old Reef.
- Y10. Elevation, -0.8 m

[309.]

- X1. 19-074 Cobham Reef A
- X2. 19° 24'S 148° 52'E
- X4. 4560 ha
- X5. Reef patches. Shares common reef platform with Gould Reef (B).

[310.]

- X1. 19-074 Gould Reef B
- X2. 19° 28'S 148° 52'E
- X4. 8060 ha
- X5. Crescentic reef. A drying reef enclosing a boulder-studded lagoon. Shares a common reef platform with Cobham Reef (A).
- X65. Olafson (1978) found trace levels of lindane and dieldrin in Fungia and Acropora corals, lindane, DDE, DDT in fish.

[311.]

- X1. 19-093 U/N
- X2. 19° 24'S 149° 02'E
- X4. 60 ha
- X5. Submerged reef.

19° 25'S

19-048-Y023 U/N Boulder

- 19° 25.9'S 148° 06.8'E
- See Old Reef, 19° 24'S 148° 05'E

19-048-Y024 U/N Boulder

- 19° 25.9'S 148° 08.0'E
- See Old Reef, 19° 24'S 148° 05'E

[312.]

- X1. 19-072 U/N
- X2. A, 19° 25'S 148° 46'E
- B, 19° 26'S 148° 43'E
- C, 19° 31'S 148° 44'E
- D, 19° 31'S 148° 47'E
- E, 19° 27'S 148° 48'E
- NW co-ordinates, 19° 25'S 148° 46'E
- X4. A, 3310 ha
- B, 4630 ha
- C, 2500 ha
- D, 2750 ha
- E, 2380 ha
- Total, 15,570 ha
- X5. A, B and E - reef patches;
- C and D - crescentic reefs.

[313.]

- X1. 19-073 U/N
- X2. 19° 25'S 149° 00'E
- X4. 60 ha
- X5. Submerged reef.

19° 26'S

[314.]

- X1. 19-071 Wallaby Reef
- X2. 19° 26'S 148° 40'E
- X4. 4500 ha
- X5. Crescentic reef.

19-072 U/N Reef B
19° 26'S 148° 43'E
See U/N Reef A, 19° 25'S 148° 46'E

19° 27'S

[315.]

X1. 19-023 Pakhoi Bank
X2. 19° 27'S 147° 53'E
X4. 120 ha
X5. Submerged reef.
X62. Less popular with user groups (Domm, 1977).

19-072 U/N Reef E
19° 27'S 148° 48'E
See U/N Reef A, 19° 25'S 148° 46'E

[316.]

X1. 19-094 U/N
X2. 19° 27'S 149° 28'E
X4. 120 ha
X5. Submerged reef.

19° 28'S

19-074 Gould Reef B
19° 28'S 148° 52'E
See Cobham Reef A, 19° 24'S 148° 52'E

[317.]

X1. 19-095 U/N
X2. 19° 28'S 149° 13'E
X4. 3560 ha
X5. Reef patches.

[318.]

X1. 19-099 Joist Reef
X2. 19° 28'S 149° 39'E
X4. 190 ha
X5. Crescentic reef.

19° 29'S

[319.]

- X1. 19-075 Martin Reef
- X2. 19° 29'S 148° 49'E
- X4. 690 ha
- X5. Lagoonal reef.

[320.]

- X1. 19-096 Kennedy Reef
- X2. 19° 29'S 149° 10'E
- X4. 6250 ha
- X5. Lagoonal reef and patch reefs.

19° 30'S

[321.]

- X1. 19-076 Showers Reef
- X2. 19° 30'S 148° 54'E
- X4. 880 ha
- X5. Lagoonal reef. Typical lagoonal reef with large isolated reef patches. The central lagoon has a maximum depth of approximately 10 m.

[322.]

- X1. 19-097 Net Reef
- X2. 19° 30'S 149° 03'E
- X4. 12,250 ha
- X5. Lagoonal reef. Numerous boulders lie above-water on the edge of the reef. Tidal streams set at a considerable rate through channels in the vicinity of Net Reef and along its shallow edges, the flood setting S and the ebb N.

19° 31'S

- 19-072 U/N Reef C
- 19° 31'S 148° 44'E
- See U/N Reef A, 19° 25'S 148° 46'E

- 19-072 U/N Reef D
- 19° 31'S 148° 47'E
- See U/N Reef A, 19° 25'S 148° 46'E

[323.]

- X1. 19-098 U/N
- X2. 19° 31'S 149° 07'E
- X4. 500 ha
- X5. Lagoonal reef.

[324.]

- X1. 19-111 U/N
- X2. 19° 31'S 149° 13'E
- X4. 60 ha
- X5. Planar reef.

[325.]

- X1. 19-139 U/N
- X2. 19° 31'S 149° 35'E
- X4. 120 ha
- X5. Reef patches.

[326.]

- X1. 19-140 U/N
- X2. 19° 31'S 149° 44'E
- X4. 60 ha
- X5. Reef patches.

19° 32'S

[327.]

- X1. 19-108 U/N
- X2. 19° 32'S 148° 53'E
- X4. 250 ha
- X5. Planar reef.

[328.]

- X1. 19-109 Fairey Reef
- X2. A, 19° 32'S 148° 57'E
- B, 19° 34'S 148° 56'E
- C, 19° 35'S 148° 56'E
- NW co-ordinates, 19° 32'S 148° 57'E
- X4. A, 880 ha
- B, 250 ha
- C, 60 ha
- Total, 1,190 ha
- X5. A and B - lagoonal reefs;
- C - planar reef.

[329.]

X1. 19-107 Seagull Reef
X2. 19° 32'S 148° 59'E
X4. 1500 ha
X5. Lagoonal reef.

[330.]

X1. 19-113 U/N
X2. 19° 32'S 149° 00'E
X4. 60 ha
X5. Planar reef.

[331.]

X1. 19-112 U/N
X2. 19° 32'S 149° 14'E
X4. 60 ha
X5. Planar reef.

[332.]

X1. 19-117 U/N
X2. 19° 32'S 149° 22'E
X4. 190 ha
X5. Planar reef.

[333.]

X1. 19-118 U/N
X2. 19° 32'S 149° 24'E
X4. 60 ha
X5. Reef patches.

[334.]

X1. 19-114 U/N
X2. 19° 33'S 149° 02'E
X4. 250 ha
X5. Reef patches.

[335.]

X1. 19-115 U/N
X2. 19° 33'S 149° 02'E
X4. 60 ha
X5. Submerged reef.

19° 33'S

[336.]

- X1. 19-116 Knuckle Reef
X2. 19° 33'S 149° 16'E
X4. 2560 ha
X5. Lagoonal reef.

[337.]

- X1. 19-120 Oublier Reef
X2. 19° 33'S 149° 21'E
X4. 690 ha
X5. Lagoonal reef.

[338.]

- X1. 19-119 U/N
X2. 19° 33'S 149° 22'E
X4. 120 ha
X5. Planar reef.

[339.]

- X1. 19-121 U/N
X2. 19° 33'S 149° 26'E
X4. 690 ha
X5. Submerged reef.

- 19-109 Fairey Reef B
19° 34'S 148° 56'E
See Fairey Reef A, 19° 32'S 148° 57'E

19° 34'S

[340.]

- X1. 19-141 Stucco Reef
X2. 19° 34'S 149° 36'E
X4. 1060 ha
X5. Lagoonal reef.

- 19-109 Fairey Reef C
19° 35'S 148° 56'E
See Fairey Reef A, 19° 32'S 148° 57'E

19° 35'S

[341.]

- X1. 19-122 U/N
- X2. 19° 35'S 149° 15'E
- X4. 250 ha
- X5. Reef patches.

[342.]

- X1. 19-124 U/N
- X2. 19° 35'S 149° 30'E
- X4. 120 ha
- X5. Reef patches.

[343.]

- X1. 19-144 U/N
- X2. 19° 35'S 149° 35'E
- X4. 60 ha
- X5. Reef patches.

[344.]

- X1. 19-142 Lath Reef
- X2. 19° 35'S 149° 39'E
- X4. 380 ha
- X5. Reef patches.

[345.]

- X1. 19-143 U/N
- X2. 19° 35'S 149° 42'E
- X4. 120 ha
- X5. Submerged reef.

19° 36'S

[346.]

- X1. 19-123 U/N
- X2. 19° 36'S 149° 14'E
- X4. 190 ha
- X5. Crescentic reef.

[347.]

- X1. 19-125 U/N
- X2. 19° 36'S 149° 25'E
- X4. 190 ha
- X5. Submerged reef.

[348.]

- X1. 19-145 U/N
- X2. 19° 36'S 149° 30'E
- X4. 120 ha
- X5. Reef patches.

[349.]

- X1. 19-146 Rafter Reef
- X2. 19° 36'S 149° 38'E
- X4. 620 ha
- X5. Reef patches.

[350.]

- X1. 19-148 U/N
- X2. 19° 36'S 149° 46'E
- X4. 120 ha
- X5. Crescentic reef.

19° 37'S

[351.]

- X1. 19-149 U/N
- X2. 19° 37'S 149° 43'E
- X4. 250 ha
- X5. Lagoonal reef.

[352.]

- X1. 19-151 U/N
- X2. 19° 37'S 149° 51'E
- X4. 620 ha
- X5. Lagoonal reef.

19° 38'S

[353.]

- X1. 19-147 Plaster Reef
- X2. 19° 38'S 149° 40'E
- X4. 2000 ha
- X5. Reef patches.
- X62. Less popular with user groups in this region (Domm, 1977).

[354.]

- X1. 19-150 U/N
- X2. 19° 38'S 149° 43'E
- X4. 60 ha
- X5. Reef patches.

[355.]

- X1. 19-152 U/N
- X2. 19° 38'S 149° 52'E
- X4. 190 ha
- X5. Lagoonal reef.

19° 39'S

[356.]

- X1. 19-126 U/N
- X2. 19° 39'S 149° 25'E
- X4. 1690 ha
- X5. Reef patches.

[357.]

- X1. 19-153 U/N
- X2. 19° 39'S 149° 45'E
- X4. 60 ha
- X5. Crescentic reef.

[358.]

- X1. 19-154 U/N
- X2. 19° 39'S 149° 50'E
- X4. 60 ha
- X5. Planar reef.

19° 40'S

[359.]

- X1. 19-157 Little Reef
- X2. 19° 40'S 149° 35'E
- X4. 190 ha
- X5. Planar reef.

[360.]

- X1. 19-155 U/N
- X2. 19° 40'S 149° 43'E
- X4. 190 ha
- X5. Reef patches.

[361.]

- X1. 19-156 U/N
- X2. 19° 40'S 149° 45'E
- X4. 880 ha
- X5. Reef patches.

[362.]

- X1. 19-159 U/N
- X2. 19° 40'S 149° 55'E
- X4. 380 ha
- X5. Lagoonal reef.

[363.]

- X1. 19-160 U/N
- X2. 19° 40'S 149° 57'E
- X4. 120 ha
- X5. Submerged reef.

19° 41'S

[364.]

- X1. 19-162 U/N
- X2. 19° 41'S 149° 31'E
- X4. 120 ha
- X5. Reef patches.

[365.]

- X1. 19-161 U/N
- X2. 19° 41'S 149° 40'E
- X4. 500 ha
- X5. Crescentic reef.

[366.]

- X1. 19-158 U/N
- X2. 19° 41'S 149° 42'E
- X4. 190 ha
- X5. Reef patches.

[367.]

- X1. 19-100 White Topped Rock Reef
- X2. 19° 42'S 147° 45'E
- X4. 10 ha
- X5. Incipient fringing reef.

[368.]

- Y1. 19-100-Y025 White Topped Rock
- Y2. 19° 42.3'S 147° 45.0'E
- Y8. Geologically high continental.
- Y10. Elevation, 7 m
- Y11. Bowen Shire Council

[369.]

- X1. 19-128 Line Reef
- X2. 19° 42'S 149° 12'E
- X4. 2190 ha
- X5. Ribbon reef.

[370.]

- X1. 19-163 U/N
- X2. 19° 42'S 149° 32'E
- X4. 120 ha
- X5. Submerged reef.

[371.]

- X1. 19-164 U/N
- X2. 19° 42'S 149° 43'E
- X4. 1190 ha
- X5. Reef patches.

[372.]

- X1. 19-165 U/N
- X2. 19° 42'S 149° 47'E
- X4. 1810 ha
- X5. Reef patches.

[373.]

- X1. 19-166 U/N
- X2. 19° 42'S 149° 54'E
- X4. 60 ha
- X5. Reef patches.

[374.]

- X1. 19-167 U/N
- X2. 19° 42'S 149° 59'E
- X4. 190 ha
- X5. Planar reef.

19° 43'S

19-103-Y026 Holbourne Island

19° 43.7'S 148° 21.5'E

See Holbourne Island Reef, 19° 44'S 148° 22'E

[375.]

- X1. 19-133 Sinker Reef
- X2. 19° 43'S 149° 12'E
- X4. 60 ha
- X5. Planar reef.

[376.]

- X1. 19-129 U/N
- X2. 19° 43'S 149° 18'E
- X4. 190 ha
- X5. Planar reef with sand cay.

[377.]

- X1. 19-168 U/N
- X2. 19° 43'S 149° 36'E
- X4. 60 ha
- X5. Planar reef.

[378.]

- X1. 19-170 U/N
- X2. 19° 43'S 149° 41'E
- X4. 120 ha
- X5. Submerged reef.

[379.]

- X1. 19-171 U/N
- X2. 19° 43'S 149° 44'E
- X4. 120 ha
- X5. Crescentic reef.

[380.]

- X1. 19-172 U/N
- X2. 19° 43'S 149° 45'E
- X4. 120 ha
- X5. Reef patches.

[381.]

- X1. 19-173 U/N
- X2. 19° 43'S 149° 46'E
- X4. 120 ha
- X5. Submerged reef.

[382.]

- X1. 19-174 U/N
- X2. 19° 43'S 149° 48'E
- X4. 190 ha
- X5. Submerged reef.

[383.]

- X1. 19-175 U/N
- X2. 19° 43'S 149° 55'E
- X4. 60 ha
- X5. Planar reef.

[384.]

- X1. 19-176 U/N
- X2. 19° 43'S 149° 58'E
- X4. 190 ha
- X5. Reef patches.

[385.]

- X1. 19-206 U/N
- X2. 19° 43'S 150° 00'E
- X4. 190 ha
- X5. Reef patches.

[386.]

- X1. 19-101 U/N
- X2. 19° 44'S 147° 45'E
- X4. 120 ha
- X5. Incipient coastal fringing reef.

19° 44'S

[387.]

X1. 19-103 Holbourne Island Reef

X2. 19° 44'S 148° 22'E

X4. 120 ha

X5. Fringing reef.

Wells (1955) noted the following coral genera present:

Caulastrea, Herpolitha, Moseleya, Echinophyllia, Stylocoeniella,
Seriatopora, Echinopora, Leptastrea, Porites, Tubipora, Fungia, Cycloseris,
Acropora, Favites, Montipora, Cyphastrea.

Hopley (1982) noted that the reef displays a well-developed basset edge.

X23. Moderate sheltered anchorage.

X62. Less popular with user groups in this region (Domm, 1977).

Temporary anchorage with fair shelter from SE winds NW of beach on W side of island. Tidal streams are strong.

X63. Shingle ramparts were breached in 1918 (by cyclone?) causing a drop in lagoon water levels and changes in coral communities.

Marshall (1924) noted that "To zoologists, it [the reef] is famous as the type locality of many marine invertebrates ... obtained for the Godeffroy Museum in 1868 by Frau Amalie Dietrich".

[388.]

Y1. 19-103-Y026 Holbourne Island

Y2. 19° 43.7'S 148° 21.5'E

Y4. 34 ha

Y5. Named by Capt. Cook after Admiral F. Holbourne, commander of North American fleet in which Cook served in 1757.

Phosphate deposits were worked for a short time in 1925.

Y6. 2 tenure areas:

1. Special Lease 39395

Area, 0.2 ha; rent, \$10 (whole term); terms, 30 years expires 30/6/2004; lessee, Commonwealth of Australia.

2. National Park 417 (Gov. Gaz. 1982-2-2511)

Area, 33.7 ha.

Y7. Unmanned navigational light.

Y8. Geologically high continental. Roughly in the shape of a right-angled triangle, the E apex of which is rough granite cliffs. These cliffs continue along the W and E sides of the island, the exception being a low coral-sand beach on the N corner. There are two bare hills (the higher situated in the E corner of the island) separated by a low divide running E-W. The E half of the island is of a fine-to-medium grained pink granite transversed by several dark-bluish felsitic dykes. On the W side, approximately one-third of the island is a phosphate-bearing coral rock 3m thick, overlain by 0.5m guano soil.

Small trees, mainly Pisonia and Ficus, grow at the back of the small N beach.

Y9. Rainfall, 1015 mm

Y10. Elevation, 111 m

Y11. Bowen Shire Council

Y15. Silver Gull breeding site.

Aerial QNPWS survey in 1980 indicated the island was suitable for tern nesting.

Y19. Marshall (1924).

[389.]

- X1. 19-127 Black Reef
X2. 19° 44'S 149° 23'E
X4. 15,880 ha
X5. Lagoonal reef. Comprises a number of drying reefs, the two largest of which enclose lagoons studded with boulders.

[390.]

- X1. 19-169 U/N
X2. 19° 44'S 149° 36'E
X4. 120 ha
X5. Planar reef.

[391.]

- X1. 19-177 U/N
X2. 19° 44'S 149° 42'E
X4. 190 ha
X5. Crescentic reef.

19° 45'S

[392.]

- X1. 19-130 U/N
X2. 19° 45'S 149° 20'E
X4. 120 ha
X5. Planar reef.

[393.]

- X1. 19-134 Black Reef East
X2. 19° 45'S 149° 30'E
X4. 14,000 ha
X5. Lagoonal reef with sand cay.

[394.]

- X1. 19-181 U/N
X2. 19° 45'S 149° 36'E
X4. 120 ha
X5. Submerged reef.

[395.]

- X1. 19-180 U/N
X2. 19° 45'S 149° 41'E
X4. 500 ha
X5. Crescentic reef.

[396.]

- X1. 19-179 U/N
- X2. 19° 45'S 149° 47'E
- X4. 620 ha
- X5. Reef patches.

[397.]

- X1. 19-178 U/N
- X2. 19° 45'S 149° 57'E
- X4. 250 ha
- X5. Reef patches.

19° 46'S

[398.]

- X1. 19-104 Nares Rock Reef
- X2. 19° 46'S 148° 22'E
- X4. 1 ha
- X5. Incipient fringing reef.

[399.]

- Y1. 19-104-Y027 Nares Rock
- Y2. 19° 46.3'S 148° 21.4'E
- Y5. Named after a well known cruising yacht from Shute Harbour.
- Y8. Geologically high continental rock; bare and steep.
- Y10. Elevation, 8 m

[400.]

- X1. 19-135 Hardy Reef
- X2. 19° 46'S 149° 14'E
- X4. 4190 ha
- X5. Lagoonal reef.

Wells (1955) noted the following coral genera present:

Caulastrea, Herpolitha, Moseleya, Echinophyllia, Stylocoeniella,
Seriatopora, Echinopora, Leptastrea, Porites, Tubipora, Fungia, Cycloseris,
Acropora, Favites, Montipora, Cyphastrea.

- X62. Used by tourist cruiser 'Reef Encounter' which caters for up to 25 guests (with 9 crew), and linked to mainland by amphibious planes of Air Whitsunday. Activities offered include glass-bottomed boats, snorkelling, reef walking, fishing and skindiving. The boat is semi-permanently anchored in the reef's lagoon.

[401.]

- X1. 19-131 U/N
- X2. 19° 46'S 149° 22'E
- X4. 560 ha
- X5. Lagoonal reef.

[402.]

- X1. 19-132 U/N
- X2. 19° 46'S 149° 24'E
- X4. 60 ha
- X5. Planar reef.

[403.]

- X1. 19-183 U/N
- X2. 19° 46'S 149° 39'E
- X4. 120 ha
- X5. Submerged reef.

[404.]

- X1. 19-184 U/N
- X2. 19° 46'S 149° 39'E
- X4. 120 ha
- X5. Reef patches.

[405.]

- X1. 19-185 U/N
- X2. 19° 46'S 149° 39'E
- X4. 60 ha
- X5. Submerged reef.

[406.]

- X1. 19-186 U/N
- X2. 19° 46'S 149° 43'E
- X4. 60 ha
- X5. Planar reef.

[407.]

- X1. 19-182 U/N
- X2. 19° 46'S 149° 44'E
- X4. 440 ha
- X5. Reef patches.

[408.]

- X1. 19-207 Hyde Reef
X2. 19° 46'S 150° 05'E
X4. 1250 ha
X5. Lagoonal reef.

19° 47'S

[409.]

- X1. 19-188 U/N
X2. 19° 47'S 149° 46'E
X4. 380 ha
X5. Crescentic reef.

19° 48'S

[410.]

- X1. 19-136 Hook Reef
X2. A, 19° 50'S 149° 14'E
 B, 19° 49'S 149° 07'E
 C, 19° 48'S 149° 10'E
 NW co-ordinates, 19° 48'S 149° 10'E
X4. A, 5630 ha
 B, 120 ha
 C, 190 ha
 Total, 5940 ha
X5. A, crescentic reef;
 B, planar reef;
 C, submerged reef.
 A large horseshoe-shaped reef open on its W side. 3 associated reefs.
X62. 4 daymark beacons on reef top: No. 3 on SE extremity; No. 1 on a detached reef close W to the SW tip of Hook Reef; Nos. 2 and 4 one km apart on NE extremity.
 Tidal streams between Hook and Bait Reefs attain 2 knots, setting S with a flood and N on an ebb tide.

[411.]

- X1. 19-187 Hewitt Reef
X2. 19° 48'S 149° 38'E
X4. 4150 ha
X5. Lagoonal reef.

[412.]

- X1. 19-189 U/N
X2. 19° 48'S 149° 42'E
X4. 440 ha
X5. Reef patches.

[413.]

- X1. 19-208 U/N
- X2. 19° 48'S 150° 08'E
- X4. 880 ha
- X5. Reef patches.

19° 49'S

[414.]

- X1. 19-137 Bait Reef
- X2. 19° 49'S 149° 04'E
- X4. 560 ha
- X5. Lagoonal reef.
- X62. Tidal streams between Bait Reef and SW tip of Hook Reef approach 2 knots, the flood setting S and the ebb N.
- X65. Olafson (1978) reported trace quantities of lindane and DDT in Acropora sp. corals, and lindane in Fungia sp. corals.

- 19-136 Hook Reef B
- 19° 49'S 149° 07'E
- See Hook Reef C, 19° 48'S 149° 10'E

[415.]

- X1. 19-138 U/N
- X2. 19° 49'S 149° 25'E
- X4. 250 ha
- X5. Lagoonal reef.

[416.]

- X1. 19-192 U/N
- X2. 19° 49'S 149° 37'E
- X4. 120 ha
- X5. Planar reef.

[417.]

- X1. 19-190 U/N
- X2. 19° 49'S 149° 42'E
- X4. 250 ha
- X5. Reef patches.

[418.]

- X1. 19-191 U/N
- X2. 19° 49'S 149° 43'E
- X4. 60 ha
- X5. Submerged reef.

[419.]

- X1. 19-210 U/N
- X2. 19° 49'S 150° 06'E
- X4. 190 ha
- X5. Reef patches.

[420.]

- X1. 19-209 Bebe Reef
- X2. 19° 49'S 150° 09'E
- X4. 810 ha
- X5. Planar reef.

19° 50'S

19-102-Y028 Camp Islet

19° 50.9'S 147° 54.1'E

See Camp Islet Reef, 19° 52'S 147° 54'E

19-136 Hook Reef A

19° 50'S 149° 14'E

See Hook Reef C, 19° 48'S 149° 10'E

[421.]

- X1. 19-193 U/N
- X2. 19° 50'S 149° 45'E
- X4. 620 ha
- X5. Submerged reef.

[422.]

- X1. 19-194 U/N
- X2. 19° 50'S 149° 46'E
- X4. 190 ha
- X5. Crescentic reef.

[423.]

- X1. 19-211 Wackett Reef
- X2. 19° 50'S 150° 05'E
- X4. 810 ha
- X5. Lagoonal reef.

[424.]

- X1. 19-212 Oom Reef
- X2. 19° 50'S 150° 11'E
- X4. 120 ha
- X5. Planar reef.

19° 51'S

[425.]

- X1. 19-195 Napier Reef
- X2. 19° 51'S 149° 53'E
- X4. 380 ha
- X5. Lagoonal reef.

[426.]

- X1. 19-213 U/N
- X2. 19° 51'S 150° 06'E
- X4. 120 ha
- X5. Submerged reef.

19° 52'S

[427.]

- X1. 19-102 Camp Islet Reef
- X2. 19° 52'S 147° 54'E
- X4. 120 ha
- X5. Fringing reef.

[428.]

- Y1. 19-102-Y028 Camp Islet
- Y2. 19° 50.9'S 147° 54.1'E
- Y4. 10.7 ha
- Y6. Vacant Crown Land.
- Y8. Geologically high continental.
- Y9. Rainfall, 965 mm
- Y10. Elevation, 40 m
- Y11. Bowen Shire Council

[429.]

- X1. 19-196 U/N
- X2. 19° 52'S 149° 36'E
- X4. 60 ha
- X5. Reef patches.

19° 53'S

19-105-Y029 U/N Rock

19° 53.4'S 148° 15.8'E

See North Rock Reef, 19° 58'S 148° 16'E

[430.]

- X1. 19-197 Ross Reef
- X2. 19° 53'S 149° 35'E
- X4. 1310 ha
- X5. Lagoonal reef. A pear-shaped drying reef enclosing a lagoon.

[431.]

- X1. 19-198 U/N
- X2. 19° 53'S 149° 43'E
- X4. 190 ha
- X5. Crescentic reef and reef patches.

[432.]

- X1. 19-214 Wyatt Earp Reef
- X2. 19° 53'S 150° 14'E
- X4. 800 ha
- X5. Reef patches.

[433.]

- X1. 19-215 Sharon Shoal
- X2. 19° 53'S 150° 17'E
- X4. 120 ha
- X5. Submerged reef.

19° 54'S

[434.]

- X1. 19-199 U/N
- X2. 19° 54'S 149° 42'E
- X4. 190 ha
- X5. Submerged reef.

[435.]

- X1. 19-216 U/N
- X2. 19° 54'S 150° 15'E
- X4. 500 ha
- X5. Lagoonal reef.

[436.]

- X1. 19-217 U/N
- X2. 19° 54'S 150° 18'E
- X4. 120 ha
- X5. Submerged reef.

19° 55'S

[437.]

- X1. 19-200 U/N
- X2. 19° 55'S 149° 50'E
- X4. 440 ha
- X5. Submerged reef.

[438.]

- X1. 19-218 Williams Reef
- X2. 19° 55'S 150° 10'E
- X4. 380 ha
- X5. Lagoonal reef.

[439.]

- X1. 19-219 Mc Intyre Reef
- X2. 19° 55'S 150° 12'E
- X4. 880 ha
- X5. Lagoonal reef.

[440.]

- X1. 19-220 White Tip Reef
- X2. 19° 55'S 150° 16'E
- X4. 1130 ha
- X5. Lagoonal reef.

[441.]

- X1. 19-229 Scribes Shoal
- X2. 19° 55'S 150° 19'E
- X4. 120 ha
- X5. Submerged reef.

19° 56'S

[442.]

- X1. 19-221 Bond Reef
- X2. 19° 56'S 150° 19'E
- X4. 120 ha
- X5. Planar reef.

19° 57'S

[443.]

- X1. 19-201 U/N
- X2. 19° 57'S 149° 46'E
- X4. 120 ha
- X5. Submerged reef.

[444.]

- X1. 19-202 U/N
- X2. 19° 57'S 149° 47'E
- X4. 120 ha
- X5. Submerged reef.

[445.]

- X1. 19-223 U/N
- X2. 19° 57'S 150° 11'E
- X4. 190 ha
- X5. Submerged reef.

[446.]

- X1. 19-222 Abbott Reef
- X2. 19° 57'S 150° 20'E
- X4. 120 ha
- X5. Lagoonal reef.

[447.]

- X1. 19-224 U/N
- X2. 19° 57'S 150° 20'E
- X4. 120 ha
- X5. Reef patches.

[448.]

- X1. 19-105 North Rock Reef
X2. 19° 58'S 148° 16'E
X4. 120 ha
X5. Incipient coastal fringing reef.
Wells (1955) noted the following coral genera present:
Oxypora, Pectinia, Pachyseris, Trachyphyllia, Euphyllia, Mycedium,
Merulina, Seriatopora, Galaxea, Echinopora, Leptoria, Symphyllia,
Hydnophora, Lobophyllia, Porites, Tubipora, Cycloseris, Favia, Acropora,
Montipora, Cyphastrea, Pavona, Turbinaria.
X6. Extends to mainland (Cape Edgecombe).

[449.]

- Y1. 19-105-Y030 North Rock
Y2. 19° 58.4'S 148° 15.9'E
Y6. Vacant Crown Land.
Y8. Geologically high continental.
Y10. Elevation, 1.5 m
Y11. Bowen Shire Council

[450.]

- Y1. 19-105-Y029 U/N Rock
Y2. 19° 53.4'S 148° 15.8'E
Y8. Geologically high continental; on North Rock Reef.

[451.]

- X1. 19-204 Round Reef
X2. 19° 58'S 149° 37'E
X4. 250 ha
X5. Crescentic reef.

[452.]

- X1. 19-203 U/N
X2. 19° 58'S 149° 43'E
X4. 690 ha
X5. Submerged reef.

[453.]

- X1. 19-226 James Reef
X2. 19° 58'S 150° 13'E
X4. 880 ha
X5. Lagoonal reef.

[454.]

- X1. 19-225 U/N
- X2. 19° 58'S 150° 21'E
- X4. 690 ha
- X5. Lagoonal reef.

19° 59'S

[455.]

- X1. 19-106 Middle Island Reef
- X2. 19° 59'S 148° 22'E
- X4. 60 ha
- X5. Fringing reef. A drying fringing reef extending $\frac{1}{2}$ km S from the island.
- X63. In 1918 the reef was completely destroyed by freshwater inundation and storms associated with a cyclone. Surface destruction down to 3 metres (Stanley, 1927). Bennett (1971) noted that only along more favourably situated shores was any significant coral regrowth found.

[456.]

- Y1. 19-106-Y031 Middle Island
- Y2. 19° 59.2'S 148° 21.9'E
- Y6. Nat. Park 255 (part) (Gov. Gaz. 1982-2-2511).
- Y8. Geologically high continental. The island is rocky, of reddish colour, rather flat-topped and sparsely wooded. The N side is quite steep.
- Y9. Rainfall, 1015 mm
- Y10. Elevation, 55 m
- Y11. Bowen Shire Council

[457.]

- X1. 19-110 Ratray Island Reef
- X2. 19° 59'S 148° 34'E
- X4. 60 ha
- X5. Fringing reef.

[458.]

- Y1. 19-110-Y032 Ratray Island
- Y2. 19° 59.7'S 148° 33.5'E
- Y4. 23.5 ha
- Y6. Vacant Crown Land.
- Y8. Geologically high continental. A long narrow island composed of volcanic rocks. The island is broken by a low saddle near its N end, into two blocks. The N, E and SE faces exhibit many cliffs which become less pronounced towards the SW end. Here there is a sandy flat behind which the island is uncliffed. On all sides it is dissected by steep gullies.
- Y9. Rainfall, 1015 mm
- Y10. Elevation, 111 m
- Y11. Bowen Shire Council
- Y18. Anchorage in 18 m over mud of W side of island, and in 11-15 m over mud of S side.
- Y20. Strong tidal rips off N tip of the island during flood tide.

[459.]

- X1. 19-205 Tideway Reef
X2. A, 20° 02'S 149° 44'E
 B, 20° 00'S 149° 45'E
 C, 19° 59'S 149° 43'E
 NW co-ordinates, 19° 59'S 149° 43'E
X4. A, 1440 ha
 B, 440 ha
 C, 1060 ha
 Total, 2940 ha
X5. A, crescentic reef;
 B, reef patches;
 C, reef patches with sand cay.

[460.]

- X1. 19-228 U/N
X2. 19° 59'S 150° 14'E
X4. 120 ha
X5. Planar reef.

[461.]

- X1. 19-227 U/N
X2. 19° 59'S 150° 21'E
X4. 120 ha
X5. Planar reef.

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GEOGRAPHICAL LISTING OF REEFS,
ISLANDS, ETC. IN TOWNSVILLE
SECTION, 17° 48'S to 19° 59'S

GEOGRAPHICAL LISTING OF REEFS, ISLANDS, ETC. IN TOWNSVILLE SECTION

17° 48'S to 19° 59'S

Runn- ing No.	Inventory Code No.	Name	Latitude	Longitude
[1.]	17-049	U/N	17° 48'S	146° 06'E
				17° 48'S
				17° 49'S
[2.]	17-050	U/N	17° 50'S	146° 06'E
				17° 50'S
				17° 51'S
[3.]	17-052	U/N	17° 52'S	146° 07'E
				17° 52'S
[4.]	17-066	<u>Yamacutta Reef</u>	17° 53'S	146° 35'E
[5.]	17-065	U/N	17° 53'S	146° 44'E
				17° 53'S
				17° 54'S
[9.]	17-053-Y001	<u>Mound Island</u>	17° 55.6'S	146° 08.1'E
				17° 55'S
[7.]	17-053-Y002	<u>Dunk Island</u>	17° 56.7'S	146° 09.4'E
				17° 56'S
[6.]	17-053	<u>Dunk Island Reef</u>	17° 57'S	146° 09'E
[10.]	17-053-Y003	<u>Mung-um-gnackum Island</u>	17° 57.1'S	146° 08.5'E
[11.]	17-053-Y004	<u>Kumboola Island</u>	17° 57.4'S	146° 08.5'E
[13.]	17-068	<u>Moss Reef</u>	17° 57'S	146° 48'E
				17° 57'S
[14.]	17-054	U/N	17° 58'S	146° 08'E
[19.]	17-055-Y005	U/N Island	17° 58.8'S	146° 08.4'E
[12.]	17-053-Y006	<u>Woln-Garin Island</u>	17° 58.2'S	146° 10.7'E
[15.]	17-067	U/N	17° 58'S	146° 36'E
				17° 58'S
[16.]	17-056	U/N	17° 59'S	146° 06'E
[17.]	17-055	<u>Thorpe Island Reef</u>	17° 59'S	146° 08'E
[18.]	17-055-Y007	<u>Thorpe Island</u>	17° 59.0'S	146° 08.1'E
[24.]	18-001-Y008	U/N Island	17° 59.8'S	146° 09.01'E
[20.]	17-069	U/N	17° 59'S	146° 46'E
				17° 59'S

				<u>18° 00'S</u>
[22.]	18-001-Y001	<u>Richards (Bedarra) Island</u>	18° 00.4'S	146° 08.8'E
[21.]	18-001	<u>Richards (Bedarra) Island Reef</u>	18° 00'S	146° 09'E
[26.]	18-002-Y002	<u>Battleship Rock</u>	18° 00.6'S	146° 09.4'E
				<u>18° 01'S</u>
[31.]	18-003-Y003	<u>Wheeler (Toolgbar) Island</u>	18° 01.7'E	146° 09.9'E
[25.]	18-002	<u>Battleship Rock</u>	18° 01'S	146° 10'E
		(Pee-Rahm-Ah Is.) Reef		
[27.]	18-016	U/N	18° 01'S	146° 50'E
				<u>18° 02'S</u>
[28.]	18-000-Y004	U/N Island	18° 02.2'S	146° 03.0'E
[29.]	18-000-Y005	U/N Island	18° 02.1'S	146° 03.2'E
[30.]	18-003	<u>Wheeler (Toolgbar) Island Reef</u>	18° 02'S	146° 10'E
[33.]	18-004-Y006	<u>Coombe Island</u>	18° 02.4'S	146° 10.5'E
[32.]	18-004	<u>Coombe Island Reef</u>	18° 02'S	146° 11'E
[36.]	18-005-Y007	<u>Bowden (Budg-joo) Island</u>	18° 02.6'S	146° 11.8'E
[35.]	18-005-Y008	<u>Smith (Kurrambah) Island</u>	18° 02.3'S	146° 11.9'E
				<u>18° 03'S</u>
[34.]	18-005	<u>Smith (Bowden, Kurrambah, Budg-joo)</u>		
		Island Reef	18° 03'S	146° 12'E
[37.]	18-006	<u>Hudson (Bird, Coolah) Island Reef</u>	18° 03'S	146° 12'E
[38.]	18-006-Y009	<u>Hudson (Bird, Coolah) Island</u>	18° 03.1'S	146° 12.0'E
[39.]	18-017	U/N	18° 03'S	146° 47'E
[40.]	18-019	<u>Barnett Patches</u>	18° 03'S	146° 52'E
				<u>18° 04'S</u>
[41.]	18-018	<u>Otter Reef</u>	18° 04'S	146° 34'E
				<u>18° 05'S</u>
[42.]	18-007	<u>Kennedy Shoal</u>	18° 05'S	146° 27'E
				<u>18° 06'S</u>
[43.]	18-020	<u>Duncan Reef</u>	18° 06'S	146° 47'E
				<u>18° 07'S</u>
[44.]	18-021	U/N	18° 07'S	146° 44'E
[45.]	18-022	U/N	18° 07'S	146° 46'E
				<u>18° 08'S</u>
[50.]	18-008-Y010	<u>North Island</u>	18° 08.5'S	146° 16.8'E
[51.]	18-008-Y011	<u>Tween Island</u>	18° 08.4'S	146° 17.1'E
[46.]	18-023	U/N	18° 08'S	146° 58'E
				<u>18° 09'S</u>
[47.]	18-010	<u>Goold Island Reef</u>	18° 09'S	146° 10'E
[52.]	18-008-Y012	<u>Middle Island</u>	18° 09.0'S	146° 17.3'E
[49.]	18-008	<u>Brook Islands Reef</u>	18° 09'S	146° 18'E
[53.]	18-008-Y013	<u>South (South Brook) Island</u>	18° 09.5'S	146° 18.2'E
				<u>18° 10'S</u>
[48.]	18-010-Y014	<u>Goold Island</u>	18° 10.0'S	146° 10.2'E
[54.]	18-000-Y015	U/N Island	18° 10.1'S	146° 11.6'E
[55.]	18-009	<u>Brook Shoal</u>	18° 10'S	146° 16'E

				<u>18° 11'S</u>
[58.]	18-011-Y016	<u>Garden Island</u>	18° 11.1'S	146° 08.6'E
[60.]	18-012-Y017	<u>Sail Rock</u>	18° 11.4'S	146° 08.6'E
[56.]	18-000-Y018	<u>U/N Island</u>	18° 11.1'S	146° 08.7'E
[57.]	18-011	<u>Garden Island Reef</u>	18° 11'S	146° 09'E
[59.]	18-012	<u>Sail Rock Reef</u>	18° 11'S	146° 09'E
				<u>18° 12'S</u>
				<u>18° 13'S</u>
[61.]	18-033	<u>Pith Reef</u>	18° 13'S	147° 02'E
				<u>18° 14'S</u>
[62.]	18-013	<u>Eva Island (Channel Rock) Reef</u>	18° 14'S	146° 19'E
[64.]	18-013-Y019	<u>Channel Rock</u>	18° 14.2'S	146° 19.1'E
[63.]	18-013-Y020	<u>Eva Island</u>	18° 14.2'S	146° 19.3'E
[65.]	18-024	<u>Britomart Reef</u>	18° 14'S	146° 44'E
				<u>18° 15'S</u>
				<u>18° 16'S</u>
[66.]	18-025	<u>U/N</u>	18° 16'S	146° 54'E
[67.]	18-034	<u>Myrmidon Reef</u>	18° 16'S	147° 23'E
				<u>18° 17'S</u>
				<u>18° 18'S</u>
				<u>18° 19'S</u>
				<u>18° 20'S</u>
[68.]	18-026	<u>U/N</u>	18° 20'S	146° 45'E
				<u>18° 21'S</u>
[69.]	18-000-Y021	<u>Mangrove Island</u>	18° 21.0'S	146° 07.5'E
[70.]	18-014	<u>Hinchinbrook Island Reef</u>	18° 21'S	146° 19'E
[75.]	18-015-Y022	<u>Agnes Island</u>	18° 21.4'S	146° 19.6'E
[74.]	18-015	<u>Agnes Island Reef</u>	18° 21'S	146° 20'E
[76.]	18-036	<u>Urchin Shoal</u>	18° 21'S	147° 05'E
[77.]	18-035	<u>Thread Shoal</u>	18° 21'S	147° 11'E
				<u>18° 22'S</u>
[71.]	18-014-Y023	<u>Hinchinbrook Island</u>	18° 22.0'S	146° 15.0'E
[73.]	18-014-Y024	<u>U/N Island</u>	18° 22.5'S	146° 20.0'E
[78.]	18-027	<u>Trunk Reef</u>	18° 22'S	146° 50'E
[79.]	18-037	<u>Needle Reef</u>	18° 22'S	147° 12'E

				<u>18° 23'S</u>
[80.]	18-028	U/N	18° 23'S	146° 46'E
[81.]	18-038	<u>Thimble Shoal</u>	18° 23'S	147° 16'E
				<u>18° 24'S</u>
				<u>18° 25'S</u>
[82.]	18-000-Y025	U/N Island	18° 25.6'S	146° 21.1'E
[83.]	18-029	<u>Bramble Reef</u>	18° 25'S	146° 43'E
[84.]	18-040	<u>Arab Reef</u>	18° 25'S	147° 09'E
[85.]	18-039	<u>Dip Reef</u>	18° 25'S	147° 27'E
				<u>18° 26'S</u>
[86.]	18-030	<u>Kelso Reef</u>	18° 26'S	147° 00'E
[87.]	18-042	<u>Slashers Reefs</u>	18° 26'S	147° 04'E
[88.]	18-041	<u>Faraday Reef</u>	18° 26'S	147° 21'E
[89.]	18-046	<u>Coil Reef</u>	18° 26'S	147° 31'E
				<u>18° 27'S</u>
				<u>18° 28'S</u>
[90.]	18-000-Y026	U/N Island	18° 28.4'S	146° 13.0'E
				<u>18° 29'S</u>
[91.]	18-031	<u>Little Kelso Reef</u>	18° 29'S	147° 00'E
[92.]	18-045	U/N	18° 29'S	147° 24'E
[93.]	18-032	<u>Rib Reef</u>	18° 29'S	147° 53'E
				<u>18° 30'S</u>
[95.]	18-047-Y027	<u>Oyster Rock</u>	18° 30.3'S	146° 17.9'E
[94.]	18-047	<u>Oyster Rock Reef</u>	18° 30'S	146° 18'E
[96.]	18-043	<u>Slashers Reefs</u>	18° 30'S	147° 03'E
[97.]	18-044	<u>Slashers Reefs</u>	18° 30'S	147° 06'E
[98.]	18-070	<u>Arc Reef</u>	18° 30'S	147° 27'E
				<u>18° 31'S</u>
[99.]	18-080	<u>Bowl Reef</u>	18° 31'S	147° 32'E
				<u>18° 32'S</u>
[100.]	18-069	<u>Slashers Reefs</u>	18° 32'S	147° 09'E
[101.]	18-071	<u>Glow Reef</u>	18° 32'S	147° 24'E
				<u>18° 33'S</u>
[104.]	18-048-Y028	<u>Pelorus (North Palm, Yanooa)</u>		
		<u>Island</u>	18° 33.2'S	146° 29.7'E
[102.]	18-072	U/N	18° 33'S	147° 14'E
				<u>18° 34'S</u>
[103.]	18-048	<u>Pelorus (North Palm, Yanooa)</u>		
		<u>Island Reef</u>	18° 34'S	146° 29'E
[105.]	18-073	<u>Hopkinson Reef</u>	18° 34'S	147° 12'E
[106.]	18-074	<u>Yankee Reef</u>	18° 34'S	147° 30'E

				<u>18° 35'S</u>
[107.]	18-081	<u>Knife Reef</u>	18° 35'S	147° 34'E
[108.]	18-082	U/N	18° 35'S	147° 51'E
				<u>18° 36'S</u>
[109.]	18-049	<u>Orpheus (Goolboddi) Island Reefs</u>	18° 36'S	146° 29'E
				<u>18° 37'S</u>
[110.]	18-049-Y029	<u>Orpheus (Goolboddi) Island</u>	18° 37.0'S	146° 29.6'E
[112.]	18-083	<u>Fork Reef</u>	18° 37'S	147° 34'E
[113.]	18-084	<u>Cup Reef</u>	18° 37'S	147° 37'E
				<u>18° 38'S</u>
[114.]	18-075	<u>John Brewer (Watt) Reef</u>	18° 38'S	147° 04'E
[115.]	18-076	<u>Helix Reef</u>	18° 38'S	147° 18'E
[116.]	18-077	<u>Grub Reef</u>	18° 38'S	147° 25'E
				<u>18° 39'S</u>
[113.]	18-084	<u>Cup Reef B</u>	18° 39'S	147° 35'E
				<u>18° 40'S</u>
[118.]	18-052-Y030	<u>Curacoa (Noogoo) Island</u>	18° 40.0'S	146° 33.2'E
[117.]	18-052	<u>Curacoa (Noogoo) Island Reef</u>	18° 40'S	146° 34'E
[119.]	18-085	<u>Spoon Reef</u>	18° 40'S	147° 34'E
[113.]	18-084	<u>Cup Reef C (Saucer Reef)</u>	18° 40'S	147° 36'E
[120.]	18-086	<u>Chicken Reef</u>	18° 40'S	147° 43'E
				<u>18° 41'S</u>
[121.]	18-050	<u>Lady Elliot Reef</u>	18° 41'S	146° 20'E
[122.]	18-053	<u>Fantome (Eumilli) Island Reef</u>	18° 41'S	146° 31'E
[123.]	18-053-Y031	<u>Fantome (Eumilli) Island</u>	18° 41.2'S	146° 31.2'E
[124.]	18-054	<u>Great Palm Island Reefs</u>	18° 41'S	146° 35'E
				<u>18° 42'S</u>
[128.]	18-078	<u>Lodestone Reef</u>	18° 42'S	147° 06'E
[129.]	18-087	U/N	18° 42'S	147° 52'E
				<u>18° 43'S</u>
				<u>18° 44'S</u>
[125.]	18-054-Y032	<u>Great Palm Island</u>	18° 44.5'S	146° 36.6'E
[131.]	18-055-Y033	<u>Hayman Rock</u>	18° 44.5'S	146° 41.5'E
[130.]	18-055	<u>Hayman Rock Reef</u>	18° 44'S	146° 42'E
[132.]	18-088	<u>Centipede (Goon) Reef</u>	18° 44'S	147° 32'E
[133.]	18-090	U/N	18° 44'S	147° 51'E
[134.]	18-089	<u>Anzac Reef</u>	18° 44'S	147° 53'E
				<u>18° 45'S</u>
[126.]	18-054-Y034	U/N Island	18° 45.6'S	146° 41.6'E
[135.]	18-056	<u>Paluma Rock Reef</u>	18° 45'S	146° 42'E
[136.]	18-056-Y035	<u>Paluma Rock</u>	18° 45.2'S	146° 42.0'E
[137.]	18-079	<u>Keeper Reef</u>	18° 45'S	147° 16'E
[138.]	18-092	U/N	18° 45'S	147° 57'E

				18° 46'S
[149.]	18-060-Y036	<u>Dido Rock</u>	18° 46.6'S	146° 30.6'E
[139.]	18-059	<u>Esk (Soopun) Island Reef</u>	18° 46'S	146° 31'E
[140.]	18-059-Y037	<u>Esk (Soopun) Island</u>	18° 46.3'S	146° 31.1'E
[151.]	18-062-Y038	<u>Falcon (Carbooroo) Island</u>	18° 46.2'S	146° 31.9'E
[141.]	18-058	<u>Eclipse (Garooqubbee) Island Reef</u>	18° 46'S	146° 33'E
[142.]	18-058-Y039	<u>Eclipse (Garooqubbee) Island</u>	18° 46.3'S	146° 33.1'E
[127.]	18-054-Y040	U/N Island	18° 46.7'S	146° 38.6'E
[144.]	18-061-Y041	<u>Barber (Boodthean) Islet</u>	18° 46.7'S	146° 39.9'E
[143.]	18-061	<u>Barber (Boodthean) Islet Reef</u>	18° 46'S	146° 40'E
[145.]	18-057	<u>Albino (White) Rock Reef</u>	18° 46'S	146° 43'E
[146.]	18-057-Y042	<u>Albino (White) Rock</u>	18° 46.4'S	146° 43.1'E
[147.]	18-093	U/N	18° 46'S	147° 56'E
				18° 47'S
[148.]	18-060	<u>Dido Rock Reef</u>	18° 47'S	146° 31'E
[150.]	18-062	<u>Brisk, Falcon (Carbooroo, Culgarool) Islands Reef</u>	18° 47'S	146° 32'E
[152.]	18-062-Y043	<u>Brisk (Culgarool) Island</u>	18° 47.2'S	146° 32.4'E
[153.]	18-063	<u>Chilcott Rocks Reef</u>	18° 47'S	146° 43'E
[154.]	18-063-Y044	<u>Chilcott Rocks</u>	18° 47.5'S	146° 43.9'E
[155.]	18-091	<u>Lynch's Reef</u>	18° 47'S	147° 43'E
[156.]	18-094	U/N	18° 47'S	147° 52'E
				18° 48'S
[157.]	18-095	<u>Wheeler Reef</u>	18° 48'S	147° 32'E
[158.]	18-097	U/N	18° 48'S	147° 59'E
				18° 49'S
[159.]	18-051	<u>Pandora Reef</u>	18° 49'S	146° 26'E
[162.]	18-064-Y045	<u>Fly Island</u>	18° 49.8'S	146° 31.6'E
[160.]	18-107	U/N	18° 49'S	148° 02'E
				18° 50'S
[161.]	18-064	<u>Fly Island Reef</u>	18° 50'S	146° 32'E
[164.]	18-065-Y046	<u>Havannah Island</u>	18° 50.5'S	146° 32.6'E
[163.]	18-065	<u>Havannah Island Reef</u>	18° 50'S	146° 33'E
[165.]	18-096	<u>Davies Reef</u>	18° 50'S	147° 39'E
[166.]	18-098	U/N	18° 50'S	147° 58'E
[167.]	18-109	U/N	18° 50'S	148° 04'E
[168.]	18-108	U/N	18° 50'S	148° 07'E
				18° 51'S
[169.]	18-110	U/N	18° 51'S	148° 04'E
[170.]	18-111	<u>Eagle Reef</u>	18° 51'S	148° 09'E
				18° 52'S
[171.]	18-099	U/N	18° 52'S	147° 53'E
[172.]	18-112	<u>Viper Reef</u>	18° 52'S	148° 12'E
				18° 53'S
[173.]	18-113	U/N	18° 53'S	148° 14'E
				18° 54'S
[174.]	18-104	U/N	18° 54'S	147° 52'E
[175.]	18-103	U/N	18° 54'S	147° 54'E
[176.]	18-102	U/N	18° 54'S	147° 55'E
[177.]	18-114	U/N	18° 54'S	148° 14'E

				<u>18° 55'S</u>
[178.]	18-100	<u>Big Broadhurst Reef</u>	18° 55'S	147° 45'E
[179.]	18-105	U/N	18° 55'S	147° 54'E
[180.]	18-101	U/N	18° 55'S	147° 57'E
				<u>18° 56'S</u>
[179.]	18-105	U/N Reef B	18° 56'S	147° 55'E
[181.]	18-115	<u>Jupiter Reef</u>	18° 56'S	148° 15'E
[182.]	18-116	U/N	18° 56'S	148° 20'E
				<u>18° 57'S</u>
[183.]	18-118	<u>Shrimp Reef</u>	18° 57'S	148° 05'E
[184.]	18-117	U/N	18° 57'S	148° 17'E
[185.]	18-119	<u>Lion Reef</u>	18° 57'S	148° 22'E
				<u>18° 58'S</u>
[186.]	18-067	<u>Phillips Reef</u>	18° 58'S	146° 37'E
[187.]	18-067-Y047	U/N Rock	18° 58.7'S	146° 37.1'E
[188.]	18-066	<u>Acheron Island Reef</u>	18° 58'S	146° 38'E
[189.]	18-066-Y048	<u>Acheron Island</u>	18° 58.0'S	146° 38.3'E
[190.]	18-106	<u>Little Broadhurst Reef</u>	18° 58'S	147° 42'E
				<u>18° 59'S</u>
[191.]	18-068	<u>Cordella Rocks Reef</u>	18° 59'S	146° 41'E
[192.]	18-068-Y049	<u>Cordella Rocks</u>	18° 59.8'S	146° 41.0'E
[193.]	18-120	<u>Jaquar Reef</u>	18° 59'S	148° 25'E
				<u>19° 00'S</u>
				<u>19° 01'S</u>
[194.]	19-001	<u>Bramble Rock Reef</u>	19° 01'S	146° 37'E
[195.]	19-001-Y001	<u>Bramble Rock</u>	19° 01.5'S	146° 37.7'E
[203.]	19-002-Y002	<u>Herald Island</u>	19° 01.8'S	146° 38.1'E
[196.]	19-024	<u>Prawn Reef</u>	19° 01'S	148° 07'E
[197.]	19-025	<u>Castor Reef</u>	19° 01'S	148° 20'E
				<u>19° 02'S</u>
[199.]	19-004-Y003	U/N Rock	19° 02.3'S	146° 34.8'E
[198.]	19-004	<u>Lorne Reef</u>	19° 02'S	146° 35'E
[201.]	19-003-Y004	<u>Rattlesnake Island</u>	19° 02.1'S	146° 36.6'E
[200.]	19-003	<u>Rattlesnake Island Reef</u>	19° 02'S	146° 37'E
[202.]	19-002	<u>Herald Island Reef</u>	19° 02'S	146° 38'E
[204.]	19-019	<u>Bowden Reef</u>	19° 02'S	147° 56'E
[205.]	19-049	<u>Lynx Reef</u>	19° 02'S	148° 34'E
				<u>19° 03'S</u>
[206.]	19-027	<u>Pollux Reef</u>	19° 03'S	147° 19'E
[207.]	19-026	U/N	19° 03'S	148° 27'E
				<u>19° 04'S</u>
[208.]	19-028	<u>Shell Reef</u>	19° 04'S	147° 11'E
[209.]	19-029	<u>Mid Reef</u>	19° 04'S	148° 05'E
				<u>19° 05'S</u>
[210.]	19-030	U/N	19° 05'S	148° 12'E
[211.]	19-031	<u>Crotan Reef</u>	19° 05'S	148° 14'E
[212.]	19-035	U/N	19° 05'S	148° 26'E

				<u>19° 06'S</u>
[213.]	19-005	<u>Paluma Shoals</u>	19° 06'S	146° 33'E
[214.]	19-009	<u>White Rock (Magnetic Island G) Reef</u>	19° 06'S	146° 50'E
[215.]	19-009-Y005	<u>White Rock</u>	19° 06.4'S	146° 50.0'E
[216.]	19-009	<u>Magnetic Island Reefs</u>	19° 06'S	146° 52'E
[223.]	19-006-Y006	<u>Orchard Rocks</u>	19° 06.7'S	146° 52.9'E
[222.]	19-006	<u>Orchard Rocks Reef</u>	19° 06'S	146° 53'E
[224.]	19-032	U/N	19° 06'S	148° 15'E
[225.]	19-033	U/N	19° 06'S	148° 16'E
[226.]	19-034	U/N	19° 06'S	148° 17'E
[227.]	19-036	U/N	19° 06'S	148° 19'E
[228.]	19-050	<u>Leopold Reef</u>	19° 06'S	148° 42'E
				<u>19° 07'S</u>
[235.]	19-008-Y007	<u>Burdekin Rock</u>	19° 07.8'S	146° 42.5'E
[229.]	19-007	<u>Bay Rock Reef</u>	19° 07'S	146° 45'E
[230.]	19-007-Y008	<u>Bay Rock</u>	19° 07.1'S	146° 45.3'E
[231.]	19-037	U/N	19° 07'S	148° 18'E
[232.]	19-038	<u>Dingo Reef</u>	19° 07'S	148° 21'E
[233.]	19-051	<u>Tiger Reef</u>	19° 07'S	148° 42'E
				<u>19° 08'S</u>
[234.]	19-008	<u>Burdekin Rock Reef</u>	19° 08'S	146° 42'E
[219.]	19-009-Y009	<u>Magnetic Island</u>	19° 08.4'S	146° 49.8'E
[236.]	19-039	U/N	19° 08'S	148° 11'E
[237.]	19-040	U/N	19° 08'S	148° 11'E
[238.]	19-052	U/N	19° 08'S	148° 55'E
[239.]	19-053	U/N	19° 08'S	148° 55'E
				<u>19° 09'S</u>
[217.]	19-009	<u>Geoffrey Bay (Magnetic Island C) Reef</u>	19° 09'S	146° 52'E
[240.]	19-020	<u>Morinda Shoal</u>	19° 09'S	147° 38'E
[232.]	19-038	<u>Dingo Reef C</u>	19° 09'S	148° 19'E
[241.]	19-055	U/N	19° 09'S	148° 52'E
				<u>19° 10'S</u>
[248.]	19-013-Y010	U/N Rock	19° 10.9'S	147° 03.6'E
[242.]	19-056	U/N	19° 10'S	148° 56'E
				<u>19° 11'S</u>
[218.]	19-009	<u>Cockle Bay (Magnetic Island A) Reef</u>	19° 11'S	146° 49'E
[243.]	19-010	U/N	19° 11'S	146° 50'E
[244.]	19-230	<u>Cape Cleveland Reef</u>	19° 11'S	147° 01'E
[254.]	19-015-Y011	<u>Twenty Foot Rock</u>	19° 11.9'S	147° 01.8'E
[246.]	19-014-Y012	<u>Four Foot Rock</u>	19° 11.5'S	147° 02.9'E
[245.]	19-014	<u>Four Foot Rock Reef</u>	19° 11'S	147° 03'E
[249.]	19-013-Y013	U/N Rock	19° 11.1'S	147° 03.4'E
[247.]	19-013	<u>Salamander Reef</u>	19° 11'S	147° 04'E
[250.]	19-041	U/N	19° 11'S	148° 09'E
[232.]	19-039	<u>Dingo Reef B</u>	19° 11'S	148° 22'E
[251.]	19-058	U/N	19° 11'S	148° 57'E
				<u>19° 12'S</u>
[252.]	19-011	<u>Middle Reef</u>	19° 12'S	146° 49'E
[253.]	19-015	<u>Twenty Foot Rock Reef</u>	19° 12'S	147° 02'E
[255.]	19-057	U/N	19° 12'S	148° 36'E
[256.]	19-059	U/N	19° 12'S	148° 52'E

				<u>19° 13'S</u>
[257.]	19-012	<u>Virago Shoal</u>	19° 13'S	146° 47'E
[258.]	19-042	U/N	19° 13'S	148° 05'E
[259.]	19-043	<u>Darley Reef</u>	19° 13'S	148° 10'E
[232.]	19-038	<u>Dingo Reef A</u>	19° 13'S	148° 19'E
[260.]	19-054	<u>Kangaroo Reef</u>	19° 13'S	148° 33'E
[261.]	19-060	U/N	19° 13'S	148° 36'E
[262.]	19-062	U/N	19° 13'S	148° 49'E
[263.]	19-061	<u>Jacqueline Reef</u>	19° 13'S	148° 54'E
[264.]	19-077	U/N	19° 13'S	149° 01'E
[265.]	19-078	U/N	19° 13'S	149° 06'E
				<u>19° 14'S</u>
[268.]	19-016-Y014	<u>Bray Islet</u>	19° 14.9'S	147° 04.0'E
[266.]	19-063	U/N	19° 14'S	148° 35'E
				<u>19° 15'S</u>
[267.]	19-016	<u>Bray Islet Reef</u>	19° 15'S	147° 04'E
[269.]	19-017	<u>Bare Islet Reef</u>	19° 15'S	147° 04'E
[270.]	19-017-Y015	<u>Bare Islet</u>	19° 15.6'S	147° 04.4'E
				<u>19° 16'S</u>
[272.]	19-018-Y016	<u>Bald Islet</u>	19° 16.5'S	147° 03.9'E
[271.]	19-018	<u>Bald Islet Reef</u>	19° 16'S	147° 04'E
[266.]	19-063	U/N Reef B	19° 16'S	148° 40'E
				<u>19° 17'S</u>
[273.]	19-044	<u>Faith Reef</u>	19° 17'S	148° 21'E
[274.]	19-064	U/N	19° 17'S	148° 59'E
[275.]	19-080	U/N	19° 17'S	149° 03'E
[276.]	19-079	U/N	19° 17'S	149° 06'E
				<u>19° 18'S</u>
[277.]	19-045	<u>Stanley Reef</u>	19° 18'S	148° 05'E
				<u>19° 19'S</u>
[282.]	19-000-Y017	<u>Russel (Cape Bowling Green) Island</u>	19° 19.0'S	147° 25.2'E
[278.]	19-045-Y018	U/N Boulder	19° 19.2'S	148° 06.8'E
[279.]	19-045-Y019	U/N Boulder	19° 19.2'S	148° 07.0'E
[280.]	19-045-Y020	U/N Boulder	19° 19.2'S	148° 07.2'E
[281.]	19-045-Y021	U/N Boulder	19° 19.2'S	148° 07.4'E
[283.]	19-081	<u>Ellen Reef</u>	19° 19'S	149° 15'E
				<u>19° 20'S</u>
[284.]	19-000-Y022	<u>Sand Island</u>	19° 20.5'S	147° 22.4'E
[285.]	19-046	<u>Hope Reef</u>	19° 20'S	148° 24'E
[286.]	19-065	U/N	19° 20'S	148° 38'E
[287.]	19-082	<u>Elizabeth Reef</u>	19° 20'S	149° 03'E
[288.]	19-083	U/N	19° 20'S	149° 11'E
				<u>19° 21'S</u>
[289.]	19-066	U/N	19° 21'S	148° 38'E
[290.]	19-069	U/N	19° 21'S	149° 00'E
[291.]	19-085	U/N	19° 21'S	149° 09'E
[292.]	19-084	U/N	19° 21'S	149° 13'E
[293.]	19-091	<u>Eulalie Reef</u>	19° 21'S	149° 25'E

				<u>19° 22'S</u>
[294.]	19-021	<u>Tink Shoal</u>	19° 22'S	147° 51'E
[295.]	19-022	<u>Wilson Shoal</u>	19° 22'S	147° 57'E
[296.]	19-047	<u>Charity Reef</u>	19° 22'S	148° 20'E
[297.]	19-067	U/N	19° 22'S	148° 38'E
[298.]	19-068	U/N	19° 22'S	148° 41'E
[299.]	19-070	U/N	19° 22'S	148° 43'E
[300.]	19-086	U/N	19° 22'S	149° 01'E
[301.]	19-088	U/N	19° 22'S	149° 06'E
[302.]	19-089	U/N	19° 22'S	149° 07'E
				<u>19° 23'S</u>
[303.]	19-087	U/N	19° 23'S	149° 02'E
[304.]	19-090	U/N	19° 23'S	149° 04'E
[305.]	19-092	U/N	19° 23'S	149° 12'E
				<u>19° 24'S</u>
[306.]	19-048	<u>Old Reef</u>	19° 24'S	148° 05'E
[309.]	19-074	<u>Cobham Reef A</u>	19° 24'S	148° 52'E
[311.]	19-093	U/N	19° 24'S	149° 02'E
				<u>19° 25'S</u>
[307.]	19-048-Y023	U/N Boulder	19° 25.9'S	148° 06.8'E
[308.]	19-048-Y024	U/N Boulder	19° 25.9'S	148° 08.0'E
[312.]	19-072	U/N	19° 25'S	148° 46'E
[313.]	19-073	U/N	19° 25'S	149° 00'E
				<u>19° 26'S</u>
[314.]	19-071	<u>Wallaby Reef</u>	19° 26'S	148° 40'E
[312.]	19-072	U/N Reef B	19° 26'S	148° 43'E
				<u>19° 27'S</u>
[315.]	19-023	<u>Pakhoi Bank</u>	19° 27'S	147° 53'E
[312.]	19-072	U/N Reef E	19° 27'S	148° 48'E
[316.]	19-094	U/N	19° 27'S	149° 28'E
				<u>19° 28'S</u>
[310.]	19-074	<u>Gould Reef B</u>	19° 28'S	148° 52'E
[317.]	19-095	U/N	19° 28'S	149° 13'E
[318.]	19-099	<u>Joist Reef</u>	19° 28'S	149° 39'E
				<u>19° 29'S</u>
[319.]	19-075	<u>Martin Reef</u>	19° 29'S	148° 49'E
[320.]	19-096	<u>Kennedy Reef</u>	19° 29'S	149° 10'E
				<u>19° 30'S</u>
[321.]	19-076	<u>Showers Reef</u>	19° 30'S	148° 54'E
[322.]	19-097	<u>Net Reef</u>	19° 30'S	149° 03'E
				<u>19° 31'S</u>
[312.]	19-072	U/N Reef C	19° 31'S	148° 44'E
[312.]	19-072	U/N Reef D	19° 31'S	148° 47'E
[323.]	19-098	U/N	19° 31'S	149° 07'E
[324.]	19-111	U/N	19° 31'S	149° 13'E
[325.]	19-139	U/N	19° 31'S	149° 35'E
[326.]	19-140	U/N	19° 31'S	149° 44'E

				<u>19° 32'S</u>
[327.]	19-108	U/N	19° 32'S	148° 53'E
[328.]	19-109	<u>Fairey Reef</u>	19° 32'S	148° 57'E
[329.]	19-107	<u>Seagull Reef</u>	19° 32'S	148° 59'E
[330.]	19-113	U/N	19° 32'S	149° 00'E
[331.]	19-112	U/N	19° 32'S	149° 14'E
[332.]	19-117	U/N	19° 32'S	149° 22'E
[333.]	19-118	U/N	19° 32'S	149° 24'E
				<u>19° 33'S</u>
[334.]	19-114	U/N	19° 33'S	149° 02'E
[335.]	19-115	U/N	19° 33'S	149° 02'E
[336.]	19-116	<u>Knuckle Reef</u>	19° 33'S	149° 16'E
[337.]	19-120	<u>Oublier Reef</u>	19° 33'S	149° 21'E
[338.]	19-119	U/N	19° 33'S	149° 22'E
[339.]	19-121	U/N	19° 33'S	149° 26'E
				<u>19° 34'S</u>
[328.]	19-109	<u>Fairey Reef B</u>	19° 34'S	148° 56'E
[340.]	19-141	<u>Stucco Reef</u>	19° 34'S	149° 36'E
				<u>19° 35'S</u>
[328.]	19-109	<u>Fairey Reef C</u>	19° 35'S	148° 56'E
[341.]	19-122	U/N	19° 35'S	149° 15'E
[342.]	19-124	U/N	19° 35'S	149° 30'E
[343.]	19-144	U/N	19° 35'S	149° 35'E
[344.]	19-142	<u>Lath Reef</u>	19° 35'S	149° 39'E
[345.]	19-143	U/N	19° 35'S	149° 42'E
				<u>19° 36'S</u>
[346.]	19-123	U/N	19° 36'S	149° 14'E
[347.]	19-125	U/N	19° 36'S	149° 25'E
[348.]	19-145	U/N	19° 36'S	149° 30'E
[349.]	19-146	<u>Rafter Reef</u>	19° 36'S	149° 38'E
[350.]	19-148	U/N	19° 36'S	149° 46'E
				<u>19° 37'S</u>
[351.]	19-149	U/N	19° 37'S	149° 43'E
[352.]	19-151	U/N	19° 37'S	149° 51'E
				<u>19° 38'S</u>
[353.]	19-147	<u>Plaster Reef</u>	19° 38'S	149° 40'E
[354.]	19-150	U/N	19° 38'S	149° 43'E
[355.]	19-152	U/N	19° 38'S	149° 52'E
				<u>19° 39'S</u>
[356.]	19-126	U/N	19° 39'S	149° 25'E
[357.]	19-153	U/N	19° 39'S	149° 45'E
[358.]	19-154	U/N	19° 39'S	149° 50'E
				<u>19° 40'S</u>
[359.]	19-157	<u>Little Reef</u>	19° 40'S	149° 35'E
[360.]	19-155	U/N	19° 40'S	149° 43'E
[361.]	19-156	U/N	19° 40'S	149° 45'E
[362.]	19-159	U/N	19° 40'S	149° 55'E
[363.]	19-160	U/N	19° 40'S	149° 57'E

				<u>19° 41'S</u>
[364.]	19-162	U/N	19° 41'S	149° 31'E
[365.]	19-161	U/N	19° 41'S	149° 40'E
[366.]	19-158	U/N	19° 41'S	149° 42'E
				<u>19° 42'S</u>
[367.]	19-100	<u>White Topped Rock Reef</u>	19° 42'S	147° 45'E
[368.]	19-100-Y025	<u>White Topped Rock</u>	19° 42.3'S	147° 45.0'E
[369.]	19-128	<u>Line Reef</u>	19° 42'S	149° 12'E
[370.]	19-163	U/N	19° 42'S	149° 32'E
[371.]	19-164	U/N	19° 42'S	149° 43'E
[372.]	19-165	U/N	19° 42'S	149° 47'E
[373.]	19-166	U/N	19° 42'S	149° 54'E
[374.]	19-167	U/N	19° 42'S	149° 59'E
				<u>19° 43'S</u>
[388.]	19-103-Y026	<u>Holbourne Island</u>	19° 43.7'S	148° 21.5'E
[375.]	19-133	<u>Sinker Reef</u>	19° 43'S	149° 12'E
[376.]	19-129	U/N	19° 43'S	149° 18'E
[377.]	19-168	U/N	19° 43'S	149° 36'E
[378.]	19-170	U/N	19° 43'S	149° 41'E
[379.]	19-171	U/N	19° 43'S	149° 44'E
[380.]	19-172	U/N	19° 43'S	149° 45'E
[381.]	19-173	U/N	19° 43'S	149° 46'E
[382.]	19-174	U/N	19° 43'S	149° 48'E
[383.]	19-175	U/N	19° 43'S	149° 55'E
[384.]	19-176	U/N	19° 43'S	149° 58'E
[385.]	19-206	U/N	19° 43'S	150° 00'E
				<u>19° 44'S</u>
[386.]	19-101	U/N	19° 44'S	147° 45'E
[387.]	19-103	<u>Holbourne Island Reef</u>	19° 44'S	148° 22'E
[389.]	19-127	<u>Black Reef</u>	19° 44'S	149° 23'E
[390.]	19-169	U/N	19° 44'S	149° 36'E
[391.]	19-177	U/N	19° 44'S	149° 42'E
				<u>19° 45'S</u>
[392.]	19-130	U/N	19° 45'S	149° 20'E
[393.]	19-134	<u>Black Reef East</u>	19° 45'S	149° 30'E
[394.]	19-181	U/N	19° 45'S	149° 36'E
[395.]	19-180	U/N	19° 45'S	149° 41'E
[396.]	19-179	U/N	19° 45'S	149° 47'E
[397.]	19-178	U/N	19° 45'S	149° 57'E
				<u>19° 46'S</u>
[399.]	19-104-Y027	<u>Nares Rock</u>	19° 46.3'S	148° 21.4'E
[398.]	19-104	<u>Nares Rock Reef</u>	19° 46'S	148° 22'E
[400.]	19-135	<u>Hardy Reef</u>	19° 46'S	149° 14'E
[401.]	19-131	U/N	19° 46'S	149° 22'E
[402.]	19-132	U/N	19° 46'S	149° 24'E
[403.]	19-183	U/N	19° 46'S	149° 39'E
[404.]	19-184	U/N	19° 46'S	149° 39'E
[405.]	19-185	U/N	19° 46'S	149° 39'E
[406.]	19-186	U/N	19° 46'S	149° 43'E
[407.]	19-182	U/N	19° 46'S	149° 44'E
[408.]	19-207	<u>Hyde Reef</u>	19° 46'S	150° 05'E

[409.]	19-188	U/N	19° 47'S	149° 46'E	19° 47'S
[410.]	19-136	<u>Hook Reef</u>	19° 48'S	149° 10'E	19° 48'S
[411.]	19-187	<u>Hewitt Reef</u>	19° 48'S	149° 38'E	19° 48'S
[412.]	19-189	U/N	19° 48'S	149° 42'E	19° 48'S
[413.]	19-208	U/N	19° 48'S	150° 08'E	19° 48'S
[414.]	19-137	<u>Bait Reef</u>	19° 49'S	149° 04'E	19° 49'S
[410.]	19-136	<u>Hook Reef B</u>	19° 49'S	149° 07'E	19° 49'S
[415.]	19-138	U/N	19° 49'S	149° 25'E	19° 49'S
[416.]	19-192	U/N	19° 49'S	149° 37'E	19° 49'S
[417.]	19-190	U/N	19° 49'S	149° 42'E	19° 49'S
[418.]	19-191	U/N	19° 49'S	149° 43'E	19° 49'S
[419.]	19-210	U/N	19° 49'S	150° 06'E	19° 49'S
[420.]	19-209	<u>Bebe Reef</u>	19° 49'S	150° 09'E	19° 49'S
[428.]	19-102-Y028	<u>Camp Islet</u>	19° 50.9'S	147° 54.1'E	19° 50'S
[410.]	19-136	<u>Hook Reef A</u>	19° 50'S	149° 14'E	19° 50'S
[421.]	19-193	U/N	19° 50'S	149° 45'E	19° 50'S
[422.]	19-194	U/N	19° 50'S	149° 46'E	19° 50'S
[423.]	19-211	<u>Wackett Reef</u>	19° 50'S	150° 05'E	19° 50'S
[424.]	19-212	<u>Oom Reef</u>	19° 50'S	150° 11'E	19° 50'S
[425.]	19-195	<u>Napier Reef</u>	19° 51'S	149° 53'E	19° 51'S
[426.]	19-213	U/N	19° 51'S	150° 06'E	19° 51'S
[427.]	19-102	<u>Camp Islet Reef</u>	19° 52'S	147° 54'E	19° 52'S
[429.]	19-196	U/N	19° 52'S	149° 36'E	19° 52'S
[450.]	19-105-Y029	U/N Rock	19° 53.4'S	148° 15.8'E	19° 53'S
[430.]	19-197	<u>Ross Reef</u>	19° 53'S	149° 35'E	19° 53'S
[431.]	19-198	U/N	19° 53'S	149° 43'E	19° 53'S
[432.]	19-214	<u>Wyatt Earp Reef</u>	19° 53'S	150° 14'E	19° 53'S
[433.]	19-215	<u>Sharon Shoal</u>	19° 53'S	150° 17'E	19° 53'S
[434.]	19-199	U/N	19° 54'S	149° 42'E	19° 54'S
[435.]	19-216	U/N	19° 54'S	150° 15'E	19° 54'S
[436.]	19-217	U/N	19° 54'S	150° 18'E	19° 54'S
[437.]	19-200	U/N	19° 55'S	149° 50'E	19° 55'S
[438.]	19-218	<u>Williams Reef</u>	19° 55'S	150° 10'E	19° 55'S
[439.]	19-219	<u>Mc Intyre Reef</u>	19° 55'S	150° 12'E	19° 55'S
[440.]	19-220	<u>White Tip Reef</u>	19° 55'S	150° 16'E	19° 55'S
[441.]	19-229	<u>Scribes Shoal</u>	19° 55'S	150° 19'E	19° 55'S
[442.]	19-221	<u>Bond Reef</u>	19° 56'S	150° 19'E	19° 56'S

				<u>19° 57'S</u>
[443.]	19-201	U/N	19° 57'S	149° 46'E
[444.]	19-202	U/N	19° 57'S	149° 47'E
[445.]	19-223	U/N	19° 57'S	150° 11'E
[446.]	19-222	<u>Abbott Reef</u>	19° 57'S	150° 20'E
[447.]	19-224	U/N	19° 57'S	150° 20'E
				<u>19° 58'S</u>
[449.]	19-105-Y030	<u>North Rock</u>	19° 58.4'S	148° 15.9'E
[448.]	19-105	<u>North Rock Reef</u>	19° 58'S	148° 16'E
[451.]	19-204	<u>Round Reef</u>	19° 58'S	149° 37'E
[452.]	19-203	U/N	19° 58'S	149° 43'E
[453.]	19-226	<u>James Reef</u>	19° 58'S	150° 13'E
[454.]	19-225	U/N	19° 58'S	150° 21'E
				<u>19° 59'S</u>
[456.]	19-106-Y031	<u>Middle Island</u>	19° 59.2'S	148° 21.9'E
[455.]	19-106	<u>Middle Island Reef</u>	19° 59'S	148° 22'E
[458.]	19-110-Y032	<u>Rattray Island</u>	19° 59.7'S	148° 33.5'E
[457.]	19-110	<u>Rattray Island Reef</u>	19° 59'S	148° 34'E
[459.]	19-205	<u>Tideway Reef</u>	19° 59'S	149° 43'E
[460.]	19-228	U/N	19° 59'S	150° 14'E
[461.]	19-227	U/N	19° 59'S	150° 21'E

GEOGRAPHICAL LISTING OF ISLANDS
IN TOWNSVILLE SECTION

GEOGRAPHICAL LISTING OF ISLANDS, ROCKS ETC. IN TOWNSVILLE SECTION

17° 48'S to 19° 59'S

Runn- ing No.	Inventory Code No.	Name	Latitude	Longitude
				<u>17° 48'S</u>
[9.]	17-053-Y001	<u>Mound Island</u>	17° 55.6'S	146° 08.1'E
[7.]	17-053-Y002	<u>Dunk Island</u>	17° 56.7'S	146° 09.4'E
[10.]	17-053-Y003	<u>Mung-um-gnackum Island</u>	17° 57.1'S	146° 08.5'E
[11.]	17-053-Y004	<u>Kumboola Island</u>	17° 57.4'S	146° 08.5'E
[19.]	17-055-Y005	<u>U/N Island</u>	17° 58.8'S	146° 08.4'E
[12.]	17-053-Y006	<u>Woln-Garin Island</u>	17° 58.2'S	146° 10.7'E
[18.]	17-055-Y007	<u>Thorpe Island</u>	17° 59.0'S	146° 08.1'E
[24.]	18-001-Y008	<u>U/N Island</u>	17° 59.8'S	146° 09.01'E
				<u>18° 00'S</u>
[22.]	18-001-Y001	<u>Richards (Bedarra) Island</u>	18° 00.4'S	146° 08.8'E
[26.]	18-002-Y002	<u>Battleship Rock</u>	18° 00.6'S	146° 09.4'E
[31.]	18-003-Y003	<u>Wheeler (Toolgbar) Island</u>	18° 01.7'E	146° 09.9'E
[28.]	18-000-Y004	<u>U/N Island</u>	18° 02.2'S	146° 03.0'E
[29.]	18-000-Y005	<u>U/N Island</u>	18° 02.1'S	146° 03.2'E
[33.]	18-004-Y006	<u>Coombe Island</u>	18° 02.4'S	146° 10.5'E
[36.]	18-005-Y007	<u>Bowden (Budg-joo) Island</u>	18° 02.6'S	146° 11.8'E
[35.]	18-005-Y008	<u>Smith (Kurrambah) Island</u>	18° 02.3'S	146° 11.9'E
[38.]	18-006-Y009	<u>Hudson (Bird, Coolah) Island</u>	18° 03.1'S	146° 12.0'E
[50.]	18-008-Y010	<u>North Island</u>	18° 08.5'S	146° 16.8'E
[51.]	18-008-Y011	<u>Tween Island</u>	18° 08.4'S	146° 17.1'E
[52.]	18-008-Y012	<u>Middle Island</u>	18° 09.0'S	146° 17.3'E
[53.]	18-008-Y013	<u>South (South Brook) Island</u>	18° 09.5'S	146° 18.2'E
[48.]	18-010-Y014	<u>Goold Island</u>	18° 10.0'S	146° 10.2'E
[54.]	18-000-Y015	<u>U/N Island</u>	18° 10.1'S	146° 11.6'E
[58.]	18-011-Y016	<u>Garden Island</u>	18° 11.1'S	146° 08.6'E
[60.]	18-012-Y017	<u>Sail Rock</u>	18° 11.4'S	146° 08.6'E
[56.]	18-000-Y018	<u>U/N Island</u>	18° 11.1'S	146° 08.7'E
[64.]	18-013-Y019	<u>Channel Rock</u>	18° 14.2'S	146° 19.1'E
[63.]	18-013-Y020	<u>Eva Island</u>	18° 14.2'S	146° 19.3'E
[69.]	18-000-Y021	<u>Mangrove Island</u>	18° 21.0'S	146° 07.5'E
[75.]	18-015-Y022	<u>Agnes Island</u>	18° 21.4'S	146° 19.6'E
[71.]	18-014-Y023	<u>Hinchinbrook Island</u>	18° 22.0'S	146° 15.0'E
[73.]	18-014-Y024	<u>U/N Island</u>	18° 22.5'S	146° 20.0'E
[82.]	18-000-Y025	<u>U/N Island</u>	18° 25.6'S	146° 21.1'E
[90.]	18-000-Y026	<u>U/N Island</u>	18° 28.4'S	146° 13.0'E
[95.]	18-047-Y027	<u>Oyster Rock</u>	18° 30.3'S	146° 17.9'E
[104.]	18-048-Y028	<u>Pelorus (North Palm, Yanooa) Island</u>	18° 33.2'S	146° 29.7'E
[110.]	18-049-Y029	<u>Orpheus (Goolboddi) Island</u>	18° 37.0'S	146° 29.6'E
[118.]	18-052-Y030	<u>Curacoa (Noogoo) Island</u>	18° 40.0'S	146° 33.2'E
[123.]	18-053-Y031	<u>Fantome (Eumilli) Island</u>	18° 41.2'S	146° 31.2'E
[125.]	18-054-Y032	<u>Great Palm Island</u>	18° 44.5'S	146° 36.6'E
[131.]	18-055-Y033	<u>Hayman Rock</u>	18° 44.5'S	146° 41.5'E
[126.]	18-054-Y034	<u>U/N Island</u>	18° 45.6'S	146° 41.6'E
[136.]	18-056-Y035	<u>Paluma Rock</u>	18° 45.2'S	146° 42.0'E
[149.]	18-060-Y036	<u>Dido Rock</u>	18° 46.6'S	146° 30.6'E
[140.]	18-059-Y037	<u>Esk (Soopun) Island</u>	18° 46.3'S	146° 31.1'E
[151.]	18-062-Y038	<u>Falcon (Carbooroo) Island</u>	18° 46.2'S	146° 31.9'E
[142.]	18-058-Y039	<u>Eclipse (Garooqubbee) Island</u>	18° 46.3'S	146° 33.1'E

[127.]	18-054-Y040	<u>U/N Island</u>	18° 46.7'S	146° 38.6'E
[144.]	18-061-Y041	<u>Barber (Boodthean) Islet</u>	18° 46.7'S	146° 39.9'E
[146.]	18-057-Y042	<u>Albino (White) Rock</u>	18° 46.4'S	146° 43.1'E
[152.]	18-062-Y043	<u>Brisk (Culgarool) Island</u>	18° 47.2'S	146° 32.4'E
[154.]	18-063-Y044	<u>Chilcott Rocks</u>	18° 47.5'S	146° 43.9'E
[162.]	18-064-Y045	<u>Fly Island</u>	18° 49.8'S	146° 31.6'E
[164.]	18-065-Y046	<u>Havannah Island</u>	18° 50.5'S	146° 32.6'E
[187.]	18-067-Y047	<u>U/N Rock</u>	18° 58.7'S	146° 37.1'E
[189.]	18-066-Y048	<u>Acheron Island</u>	18° 58.0'S	146° 38.3'E
[192.]	18-068-Y049	<u>Cordella Rocks</u>	18° 59.8'S	146° 41.0'E
				19° 00'S
[195.]	19-001-Y001	<u>Bramble Rock</u>	19° 01.5'S	146° 37.7'E
[203.]	19-002-Y002	<u>Herald Island</u>	19° 01.8'S	146° 38.1'E
[199.]	19-004-Y003	<u>U/N Rock</u>	19° 02.3'S	146° 34.8'E
[201.]	19-003-Y004	<u>Rattlesnake Island</u>	19° 02.1'S	146° 36.6'E
[215.]	19-009-Y005	<u>White Rock</u>	19° 06.4'S	146° 50.0'E
[223.]	19-006-Y006	<u>Orchard Rocks</u>	19° 06.7'S	146° 52.9'E
[235.]	19-008-Y007	<u>Burdekin Rock</u>	19° 07.8'S	146° 42.5'E
[230.]	19-007-Y008	<u>Bay Rock</u>	19° 07.1'S	146° 45.3'E
[219.]	19-009-Y009	<u>Magnetic Island</u>	19° 08.4'S	146° 49.8'E
[248.]	19-013-Y010	<u>U/N Rock</u>	19° 10.9'S	147° 03.6'E
[254.]	19-015-Y011	<u>Twenty Foot Rock</u>	19° 11.9'S	147° 01.8'E
[246.]	19-014-Y012	<u>Four Foot Rock</u>	19° 11.5'S	147° 02.9'E
[249.]	19-013-Y013	<u>U/N Rock</u>	19° 11.1'S	147° 03.4'E
[268.]	19-016-Y014	<u>Bray Islet</u>	19° 14.9'S	147° 04.0'E
[270.]	19-017-Y015	<u>Bare Islet</u>	19° 15.6'S	147° 04.4'E
[272.]	19-018-Y016	<u>Bald Islet</u>	19° 16.5'S	147° 03.9'E
[282.]	19-000-Y017	<u>Russel (Cape Bowling Green) Island</u>	19° 19.0'S	147° 25.2'E
[278.]	19-045-Y018	<u>U/N Boulder</u>	19° 19.2'S	148° 06.8'E
[279.]	19-045-Y019	<u>U/N Boulder</u>	19° 19.2'S	148° 07.0'E
[280.]	19-045-Y020	<u>U/N Boulder</u>	19° 19.2'S	148° 07.2'E
[281.]	19-045-Y021	<u>U/N Boulder</u>	19° 19.2'S	148° 07.4'E
[284.]	19-000-Y022	<u>Sand Island</u>	19° 20.5'S	147° 22.4'E
[307.]	19-048-Y023	<u>U/N Boulder</u>	19° 25.9'S	148° 06.8'E
[308.]	19-048-Y024	<u>U/N Boulder</u>	19° 25.9'S	148° 08.0'E
[368.]	19-100-Y025	<u>White Topped Rock</u>	19° 42.3'S	147° 45.0'E
[388.]	19-103-Y026	<u>Holbourne Island</u>	19° 43.7'S	148° 21.5'E
[399.]	19-104-Y027	<u>Nares Rock</u>	19° 46.3'S	148° 21.4'E
[428.]	19-102-Y028	<u>Camp Islet</u>	19° 50.9'S	147° 54.1'E
[450.]	19-105-Y029	<u>U/N Rock</u>	19° 53.4'S	148° 15.8'E
[449.]	19-105-Y030	<u>North Rock</u>	19° 58.4'S	148° 15.9'E
[456.]	19-106-Y031	<u>Middle Island</u>	19° 59.2'S	148° 21.9'E
[458.]	19-110-Y032	<u>Rattray Island</u>	19° 59.7'S	148° 33.5'E

ALPHABETICAL LISTING OF ISLANDS
IN TOWNSVILLE SECTION

ALPHABETICAL LISTING OF ISLANDS, ROCKS ETC. IN TOWNSVILLE SECTION

17° 48'S to 19° 59'S

Run- ning No.	Inventory Code No.	Name	Latitude	Longitude
[189.]	18-066-Y048	<u>Acheron Island</u>	18° 58.0'S	146° 38.3'E
[75.]	18-015-Y022	<u>Agnes Island</u>	18° 21.4'S	146° 19.6'E
[146.]	18-057-Y042	<u>Albino (White) Rock</u>	18° 46.4'S	146° 43.1'E
[272.]	19-018-Y016	<u>Bald Islet</u>	19° 16.5'S	147° 03.9'E
[144.]	18-061-Y041	<u>Barber (Boodthean) Islet</u>	18° 46.7'S	146° 39.9'E
[270.]	19-017-Y015	<u>Bare Islet</u>	19° 15.6'S	147° 04.4'E
[26.]	18-002-Y002	<u>Battleship Rock</u>	18° 00.6'S	146° 09.4'E
[230.]	19-007-Y008	<u>Bay Rock</u>	19° 07.1'S	146° 45.3'E
[36.]	18-005-Y007	<u>Bowden (Budg-joo) Island</u>	18° 02.6'S	146° 11.8'E
[195.]	19-001-Y001	<u>Bramble Rock</u>	19° 01.5'S	146° 37.7'E
[268.]	19-016-Y014	<u>Bray Islet</u>	19° 14.9'S	147° 04.0'E
[152.]	18-062-Y043	<u>Brisk (Culgarool) Island</u>	18° 47.2'S	146° 32.4'E
[235.]	19-008-Y007	<u>Burdekin Rock</u>	19° 07.8'S	146° 42.5'E
[428.]	19-102-Y028	<u>Camp Islet</u>	19° 50.9'S	147° 54.1'E
[64.]	18-013-Y019	<u>Channel Rock</u>	18° 14.2'S	146° 19.1'E
[154.]	18-063-Y044	<u>Chilcott Rocks</u>	18° 47.5'S	146° 43.9'E
[33.]	18-004-Y006	<u>Coombe Island</u>	18° 02.4'S	146° 10.5'E
[192.]	18-068-Y049	<u>Cordella Rocks</u>	18° 59.8'S	146° 41.0'E
[118.]	18-052-Y030	<u>Curacoa (Noogoo) Island</u>	18° 40.0'S	146° 33.2'E
[149.]	18-060-Y036	<u>Dido Rock</u>	18° 46.6'S	146° 30.6'E
[7.]	17-053-Y002	<u>Dunk Island</u>	17° 56.7'S	146° 09.4'E
[142.]	18-058-Y039	<u>Eclipse (Garooqubbee) Island</u>	18° 46.3'S	146° 33.1'E
[140.]	18-059-Y037	<u>Esk (Soopun) Island</u>	18° 46.3'S	146° 31.1'E
[63.]	18-013-Y020	<u>Eva Island</u>	18° 14.2'S	146° 19.3'E
[151.]	18-062-Y038	<u>Falcon (Carbooroo) Island</u>	18° 46.2'S	146° 31.9'E
[123.]	18-053-Y031	<u>Fantome (Eumilli) Island</u>	18° 41.2'S	146° 31.2'E
[162.]	18-064-Y045	<u>Fly Island</u>	18° 49.8'S	146° 31.6'E
[246.]	19-014-Y012	<u>Four Foot Rock</u>	19° 11.5'S	147° 02.9'E
[58.]	18-011-Y016	<u>Garden Island</u>	18° 11.1'S	146° 08.6'E
[48.]	18-010-Y014	<u>Goold Island</u>	18° 10.0'S	146° 10.2'E
[125.]	18-054-Y032	<u>Great Palm Island</u>	18° 44.5'S	146° 36.6'E
[164.]	18-065-Y046	<u>Havannah Island</u>	18° 50.5'S	146° 32.6'E
[131.]	18-055-Y033	<u>Hayman Rock</u>	18° 44.5'S	146° 41.5'E
[203.]	19-002-Y002	<u>Herald Island</u>	19° 01.8'S	146° 38.1'E
[71.]	18-014-Y023	<u>Hinchinbrook Island</u>	18° 22.0'S	146° 15.0'E
[388.]	19-103-Y026	<u>Holbourne Island</u>	19° 43.7'S	148° 21.5'E
[38.]	18-006-Y009	<u>Hudson (Bird, Coolah) Island</u>	18° 03.1'S	146° 12.0'E
[11.]	17-053-Y004	<u>Kumboola Island</u>	17° 57.4'S	146° 08.5'E

[219.]	19-009-Y009	<u>Magnetic Island</u>	19° 08.4'S	146° 49.8'E
[69.]	18-000-Y021	<u>Mangrove Island</u>	18° 21.0'S	146° 07.5'E
[52.]	18-008-Y012	<u>Middle Island</u>	18° 09.0'S	146° 17.3'E
[456.]	19-106-Y031	<u>Middle Island</u>	19° 59.2'S	148° 21.9'E
[9.]	17-053-Y001	<u>Mound Island</u>	17° 55.6'S	146° 08.1'E
[10.]	17-053-Y003	<u>Mung-um-gnackum Island</u>	17° 57.1'S	146° 08.5'E
[399.]	19-104-Y027	<u>Nares Rock</u>	19° 46.3'S	148° 21.4'E
[50.]	18-008-Y010	<u>North Island</u>	18° 08.5'S	146° 16.8'E
[449.]	19-105-Y030	<u>North Rock</u>	19° 58.4'S	148° 15.9'E
[223.]	19-006-Y006	<u>Orchard Rocks</u>	19° 06.7'S	146° 52.9'E
[110.]	18-049-Y029	<u>Orpheus (Goolboddi) Island</u>	18° 37.0'S	146° 29.6'E
[95.]	18-047-Y027	<u>Oyster Rock</u>	18° 30.3'S	146° 17.9'E
[136.]	18-056-Y035	<u>Paluma Rock</u>	18° 45.2'S	146° 42.0'E
[104.]	18-048-Y028	<u>Pelorus (North Palm, Yanooa) Island</u>	18° 33.2'S	146° 29.7'E
[201.]	19-003-Y004	<u>Rattlesnake Island</u>	19° 02.1'S	146° 36.6'E
[458.]	19-110-Y032	<u>Ratray Island</u>	19° 59.7'S	148° 33.5'E
[22.]	18-001-Y001	<u>Richards (Bedarra) Island</u>	18° 00.4'S	146° 08.8'E
[282.]	19-000-Y017	<u>Russel (Cape Bowling Green) Island</u>	19° 19.0'S	147° 25.2'E
[60.]	18-012-Y017	<u>Sail Rock</u>	18° 11.4'S	146° 08.6'E
[284.]	19-000-Y022	<u>Sand Island</u>	19° 20.5'S	147° 22.4'E
[35.]	18-005-Y008	<u>Smith (Kurrambah) Island</u>	18° 02.3'S	146° 11.9'E
[53.]	18-008-Y013	<u>South (South Brook) Island</u>	18° 09.5'S	146° 18.2'E
[18.]	17-055-Y007	<u>Thorpe Island</u>	17° 59.0'S	146° 08.1'E
[51.]	18-008-Y011	<u>Tween Island</u>	18° 08.4'S	146° 17.1'E
[254.]	19-015-Y011	<u>Twenty Foot Rock</u>	19° 11.9'S	147° 01.8'E
[31.]	18-003-Y003	<u>Wheeler (Toolqbar) Island</u>	18° 01.7'E	146° 09.9'E
[215.]	19-009-Y005	<u>White Rock</u>	19° 06.4'S	146° 50.0'E
[368.]	19-100-Y025	<u>White Topped Rock</u>	19° 42.3'S	147° 45.0'E
[12.]	17-053-Y006	<u>Woln-Garin Island</u>	17° 58.2'S	146° 10.7'E

GEOGRAPHICAL LISTING OF UNNAMED ISLANDS ETC. IN TOWNSVILLE SECTION

17° 48'S to 19° 59'S

Run- ing No.	Inventory Code No.	Name	Latitude	Longitude
[19.]	17-055-Y005	U/N Island	17° 58.8'S	146° 08.4'E
[24.]	18-001-Y008	U/N Island	17° 59.8'S	146° 09.01'E
[28.]	18-000-Y004	U/N Island	18° 02.2'S	146° 03.0'E
[29.]	18-000-Y005	U/N Island	18° 02.1'S	146° 03.2'E
[54.]	18-000-Y015	U/N Island	18° 10.1'S	146° 11.6'E
[56.]	18-000-Y018	U/N Island	18° 11.1'S	146° 08.7'E
[73.]	18-014-Y024	U/N Island	18° 22.5'S	146° 20.0'E
[82.]	18-000-Y025	U/N Island	18° 25.6'S	146° 21.1'E
[90.]	18-000-Y026	U/N Island	18° 28.4'S	146° 13.0'E
[126.]	18-054-Y034	U/N Island	18° 45.6'S	146° 41.6'E
[127.]	18-054-Y040	U/N Island	18° 46.7'S	146° 38.6'E
[187.]	18-067-Y047	U/N Rock	18° 58.7'S	146° 37.1'E
[199.]	19-004-Y003	U/N Rock	19° 02.3'S	146° 34.8'E
[248.]	19-013-Y010	U/N Rock	19° 10.9'S	147° 03.6'E
[249.]	19-013-Y013	U/N Rock	19° 11.1'S	147° 03.4'E
[278.]	19-045-Y018	U/N Boulder	19° 19.2'S	148° 06.8'E
[279.]	19-045-Y019	U/N Boulder	19° 19.2'S	148° 07.0'E
[280.]	19-045-Y020	U/N Boulder	19° 19.2'S	148° 07.2'E
[281.]	19-045-Y021	U/N Boulder	19° 19.2'S	148° 07.4'E
[307.]	19-048-Y023	U/N Boulder	19° 25.9'S	148° 06.8'E
[308.]	19-048-Y024	U/N Boulder	19° 25.9'S	148° 08.0'E
[450.]	19-105-Y029	U/N Rock	19° 53.4'S	148° 15.8'E

GEOGRAPHIC INDEX OF ISLAND
RESORTS IN TOWNSVILLE SECTION

GEOGRAPHIC INDEX OF ISLAND RESORTS IN TOWNSVILLE SECTION

17° 48'S to 19° 59'S

Run- ing No.	Inventory Code No.	Resort Name	Resort Island	Latitude & Longitude
[8.]	17-053-2002	<u>Dunk Island Resort</u>	Dunk Island	17° 56.7'S 146° 09.4'E
[23.]	18-001-2001	<u>Bedarra Island Hideaway Resort</u>	Bedarra Island	18° 00.4'S 146° 08.8'E
[72.]	18-014-2023	<u>Cape Richards Resort</u>	Hinchinbrook Island	18° 22.0'S 146° 15.0'E
[111.]	18-049-2029	<u>Orpheus Island Resort</u>	Orpheus (Goolboddi) Island	18° 37.0'S 146° 29.6'E
[220.]	19-009-2009-1	<u>Mediterranean Holiday Village</u>	Magnetic Island	19° 08.4'S 146° 49.8'E
[221.]	19-009-2009-2	<u>Radical Bay Resort</u>	Magnetic Island	19° 08.4'S 146° 49.8'E