SECRETARIAT OF THE REGIONAL ENVIRONMENT PROGRAMME

Turtle Research and Monitoring Database System (TREDS) User Manual

Anne Patricia Trevor

9/22/2009

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1 Introduction

This document provides guideline for users of the Turtle Research and Monitoring Database System (hereafter referred to as TREDS).

The Turtle Research and monitoring Database System (referred to as TREDS hereafter) is a database system that has been developed to be the overarching database system for turtle research and monitoring carried out by SPREP member countries and territories. Furthermore, TREDS can be used by anyone and is readily available for download from the SPREP website at http://www.sprep.org/treds/TREDSnews.aspxTREDS is a tool that can be used to bring together and manage data from various governments, NGO's and community groups who undertake turtle research, monitoring and tagging. The use of TREDS ranges from the simple tagging surveys carried out which just record basic information on a turtle to complex research that collect samples for genetics, laparoscopy, satellite telemetry.

TREDS is a joint initiative of the Western Pacific Regional Fishery Management Council (WPRFMC), Secretariat of the Regional Pacific Environment Programme (SPREP), South-East Asia Fisheries Development Centre (SEAFDEC), the Secretariat of the Pacific Community (SPC), the Queensland Environmental Protection Agency, the US National Marine Fisheries Service–Pacific Islands Fishery Science Centre and the Marine Research Foundation-Malaysia.

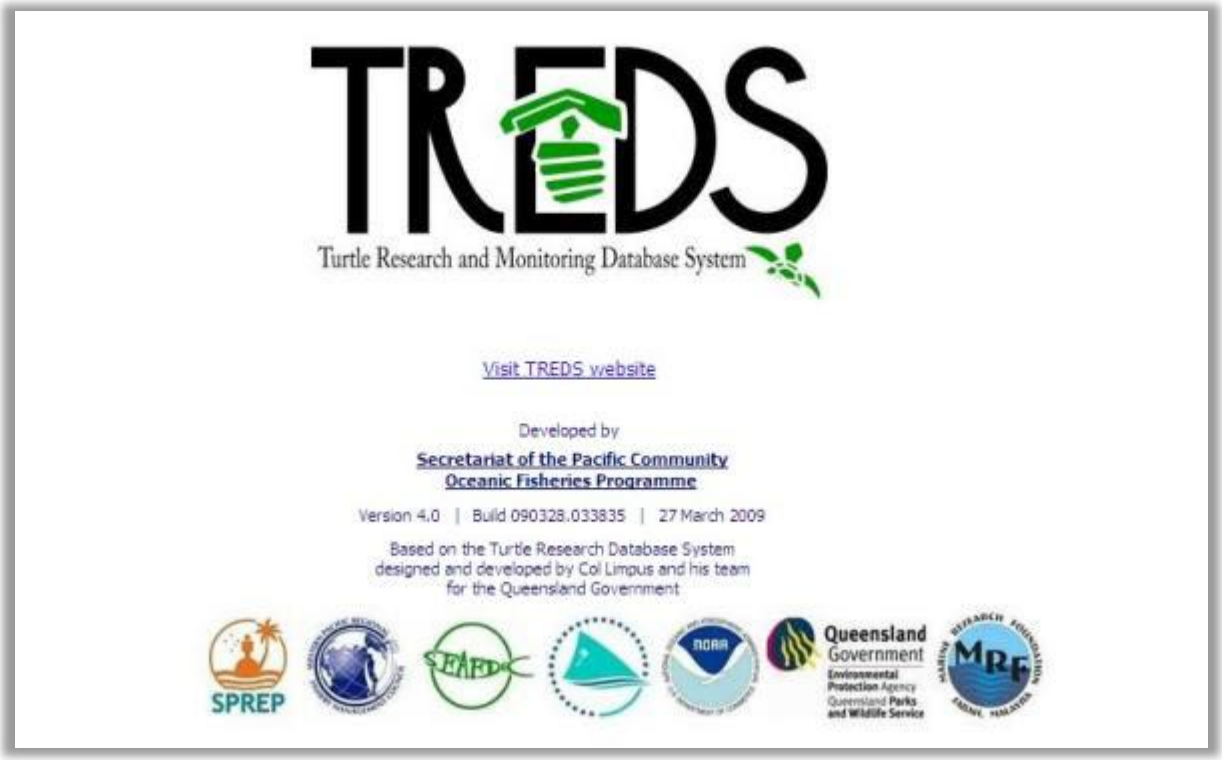


Figure 1: TREDS main screen

2 Initial download and installation of TREDS

2.1 Download TREDS from SPREP website

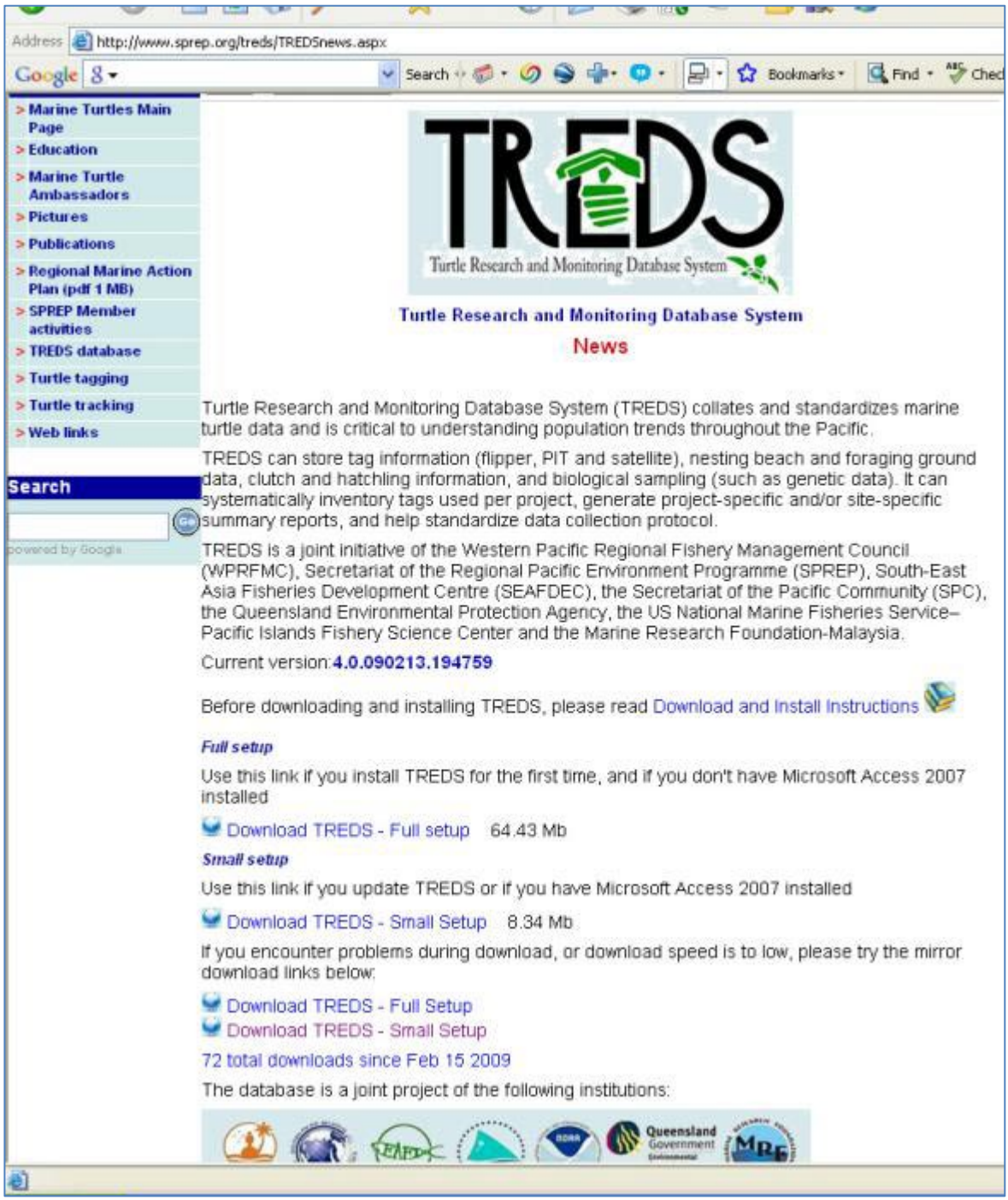


Figure 2: TREDS download webpage.

Download one of the TREDS setup files from http://www.sprep.org/treds/TREDSnews.aspx as seen in figure 2. Any new updates for the TREDS application will also be found on this webpage.

2.2 Running TREDS setup

2.2.1 Running setup file

Figure 3: Run TREDS application file

After downloading the TREDS setup file (eg. TredsSetup-##.####.exe), select 'Run' as seen in figure 3 above.

2.2.2 User information

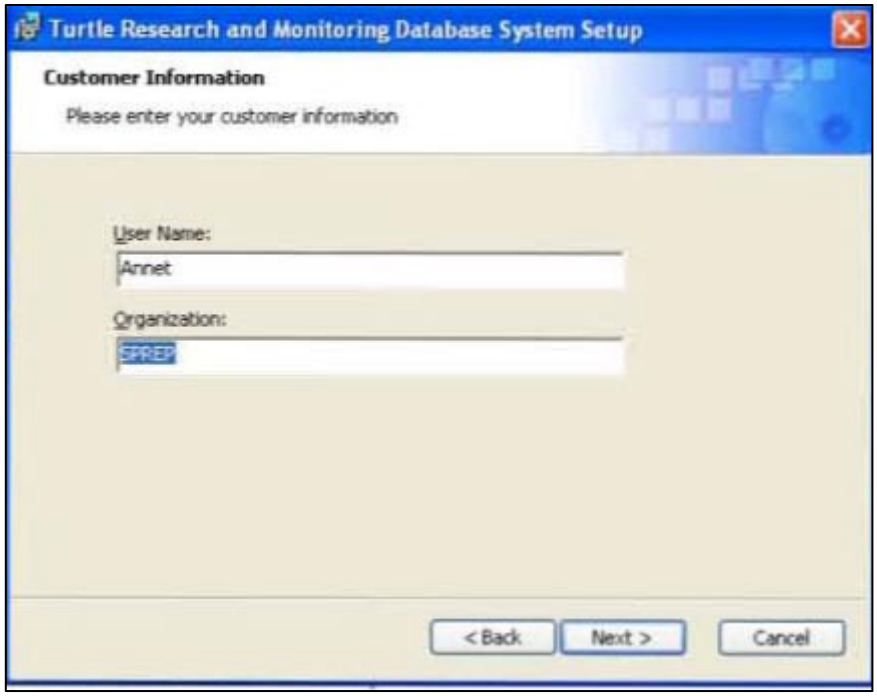


Figure 4: customer information

Enter your username and organisation in the customer information screen as seen in figure 4.

2.2.3 Setup type

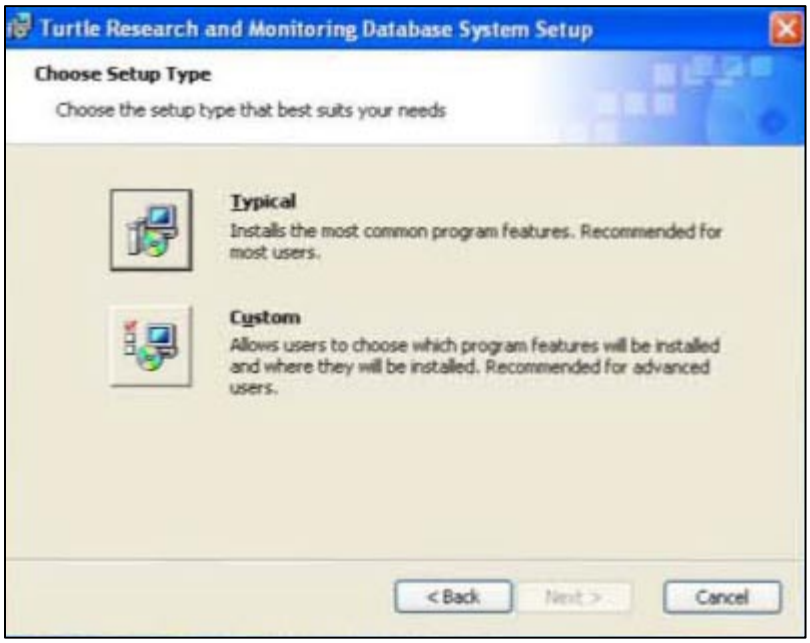


Figure 5: choosing setup type.

Choose the 'setup type' that best suit your needs as seen in figure 5 above. The typical setup installs the most common components of TREDS into a default location which is usually the C:/ drive. The custom setup allows you to select which components of TREDs you want to install as well as selecting the location that you TREDs to be setup on.

2.2.4 Begin installation

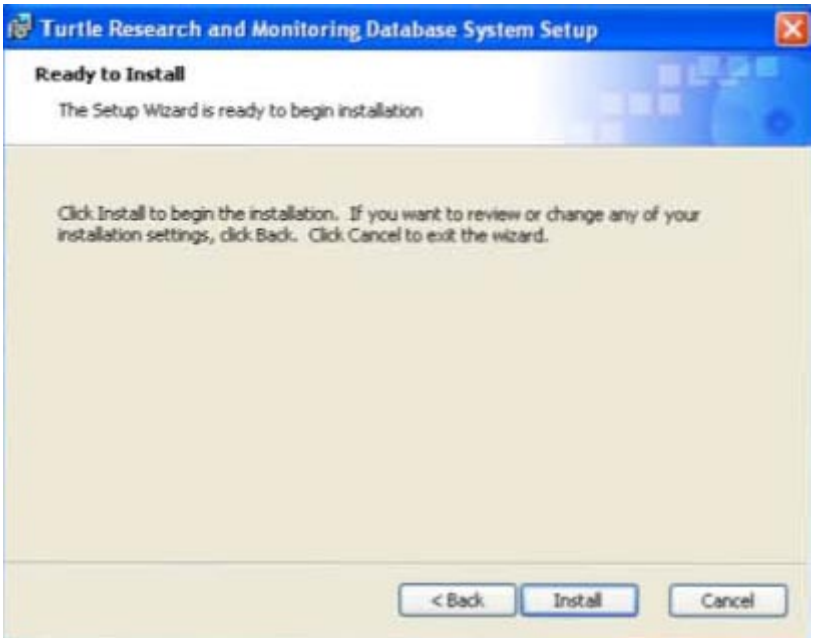


Figure 6: Begin installation of TREDS

Select 'install' to begin installation of TREDS as seen above in figure 6.

2.2.5 Running Setup Wizard

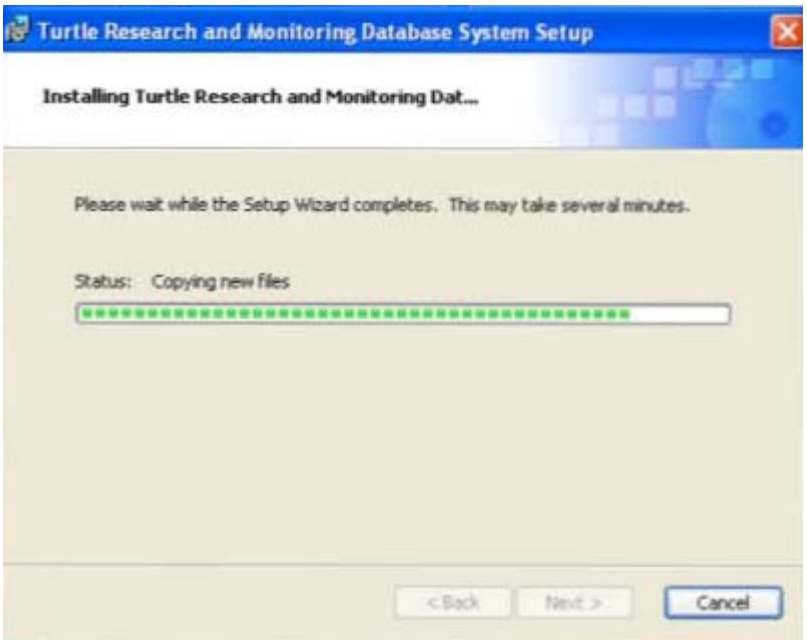


Figure 7: Running Setup wizard

Allow for the Setup wizard to complete installation of TREDS as shown in figure 7. This process may take a few minutes.

2.3 Start up TREDS from 'program files'

Figure 8: Starting up TREDS

After the installation of TREDS is completed go to 'Start', then 'All Programs' and select 'Turtle Research and Monitoring Database System' as seen in figure 8.

3 Registering and creating your TREDS database

Figure 9: Registration of TREDS

The TREDS application can be set up to function in two different modes: Master Database and Remote Database as seen shown in figure 9. Depending on your needs, TREDS must be registered in either as Master Database or Remote Database to accommodate different ways of accessing data created in previous versions, entering data in multiple locations and integrating these into a main, central, database, and synchronizing data from multiple locations into the same central database.

3.1 Master TREDS database

3.1.1 Register as a 'master database'

You can register your TREDS as 'master database' as shown in figure 9 if;

- You are using TREDS for the first time and you are stand alone tagging programme that is not part of a regional tagging programme such as the SPREP regional tagging programme in the Pacific.
- Or, you have a previous version of a TREDS database and your data are not intended to be shared with a central database. You will be able to re-link previous versions of your TREDS database, which will be converted automatically to latest version, or you can create new database.

- Or you are setting up a central database with a series of linked datasets, such as a regional data sharing network, in which the database is accessed by several users and data is collected in several remote locations. Register TREDS as a Master Database only in a single central location, (register TREDS as Remote Databases for all other locations).

The Master Database will be able to re-link previous versions of your TREDS database, which will be converted automatically to the latest version, or create a new database. The database administrator can then establish Remote Databases for each of the remote projects / countries. Remote Databases for a country or for a project can be established by accessing the *Main Menu* and then the *Administration* tabs. These then need to be sent to the respective countries / projects.

3.1.2 Enter organisation information for a Master Database

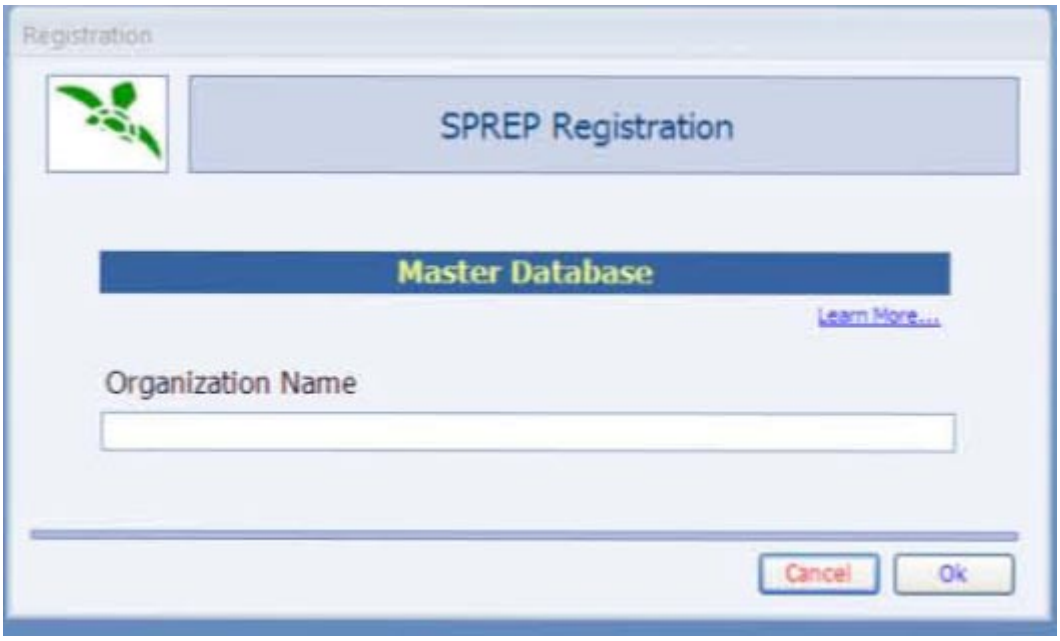


Figure 10: insert Organisation name

Enter the name of your organisation to complete the registration process as seen in figure 10.

3.1.3 Complete registration for a master database

Figure 11: Completed registration for a 'master database'

After registration is completed , select 'Continue' as shown in figure 11 above.

3.1.4 Creating a TREDS Master database

Figure 12: Creating a new database or re-linking to an existing dataset

Figure 12 will appear after registration is completed to allow you to 'create a new master TREDS database' or 're-link to an existing dataset'.

3.1.5 Select TREDS master database location

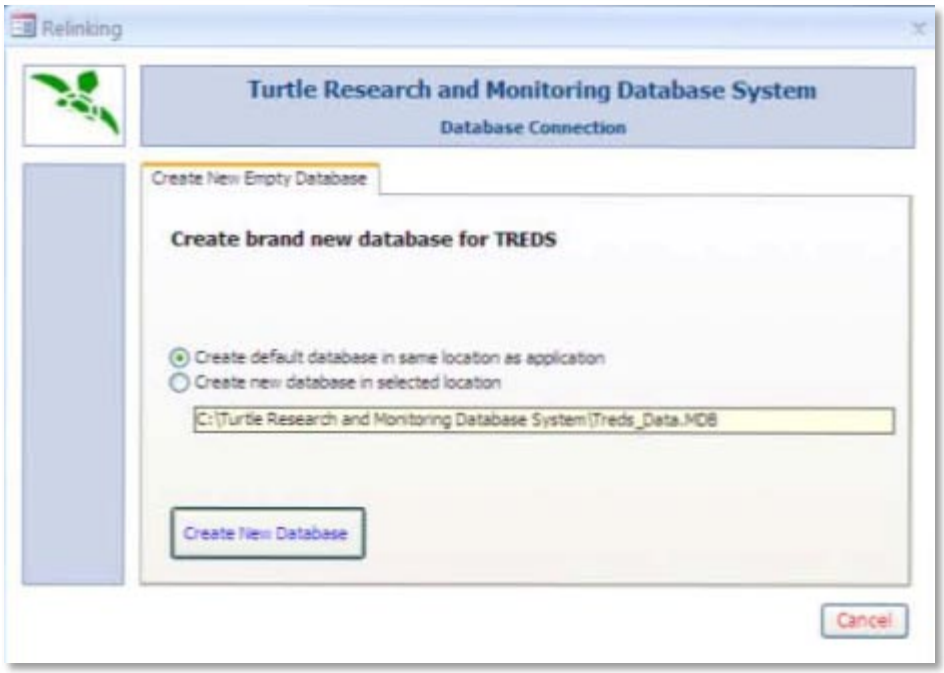


Figure 13: creating new database cont'd

Select 'Create New TREDS Database' if you are using TREDS for the first time and do not have any existing data in an earlier version of TREDS. When creating a new database you can choose to 'create a default database in the same location as the application' or 'create a new database in a selected location' perferably within the C:\ drive as shown in figure 13.

3.1.6 Run new master database setup

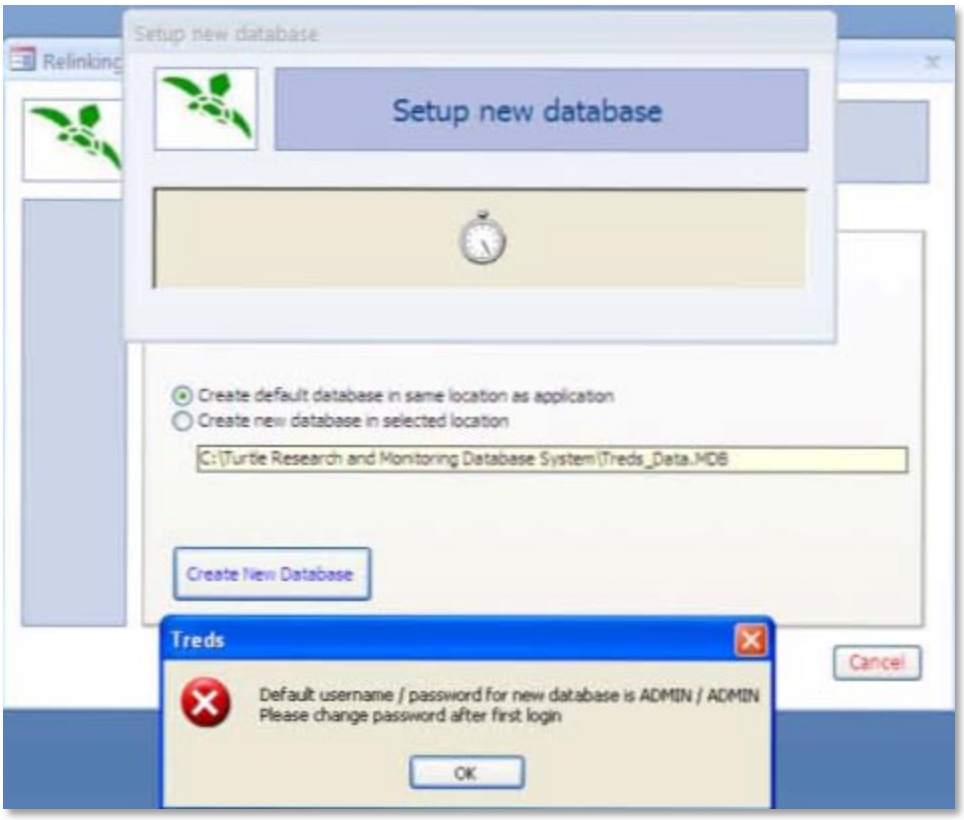


Figure 14: new database setup

After you selected a location for your new TREDS database, the new database setup will run for a few minutes as shown in figure 14.

3.2 Remote TREDS Database

3.2.1 Registering TREDS as a remote database

You can register TREDS as a 'remote database' as shown in figure 9 if you are setting up a database which is part of a regional network or other form of data sharing network. At remote locations, users can initialize TREDS only by using the Remote Database supplied by the central administrator. Remote users can export their database back to the administrator, where remote data can be integrated into the central Master Database.

If you are conducting marine turtle research in a SPREP member[1] country/territory or are part of another regional data sharing network that is using TREDS, register as a 'Remote database'

[1] SPREP members include American Samoa, Australia, Cook Islands, Federated States of Micronesia, Fiji, France, French Polynesia, Kiribati, Marshall Islands, Nauru, New Caledonia, New Zealand, Niue, Northern Marianas Islands, Palau, Papua New Guinea, Samoa, Solomon islands, Tokelau, Tonga, Tuvalu, United States of America, Vanuatu, Wallis and Futuna

(figure 9.). Please contact the SPREP turtle database officer at annet@sprep.org or sprep@sprep.org if you have any questions about TREDS.

3.2.2 Enter organisation information for a remote database

Figure 15: organisation name for remote database registration

Enter the name of your organisation to complete the registration process as seen in figure 15.

3.2.3 Complete registration for a remote database

Figure 16: completed registration for a 'remote database'

After registration is completed, select ‘continue’ as shown in figure 16.

3.2.4 Creating a new TREDS Remote database

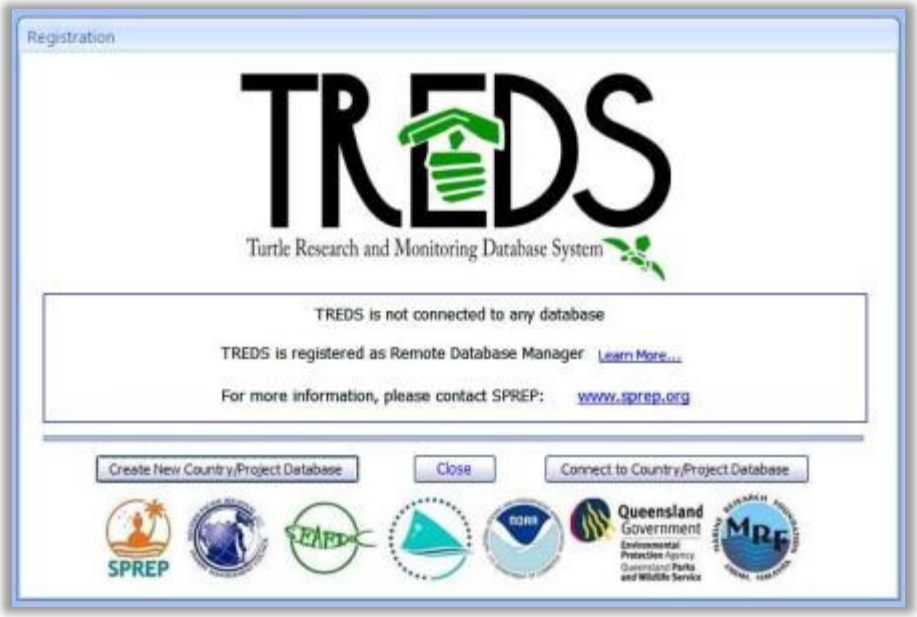


Figure 17: create new database

Select 'Create New Country/Project Database' as shown in figure 17.

3.2.5 Locate TREDS remote database exchange file

Figure 18: locate TREDS exchange file

Locate and select on the 'Treds Exchange-"Country/Territory/Project name".mdb e.g. Treds Exchange-VANUATU.mdb (NOTE: this is the file that is sent to you by a regional administrator) and click on 'open' as shown in figure 18.

Figure 19: create new database

Click on 'Yes' as shown in figure 19 above to create a new database using the data exchange file sent to you by SPREP.

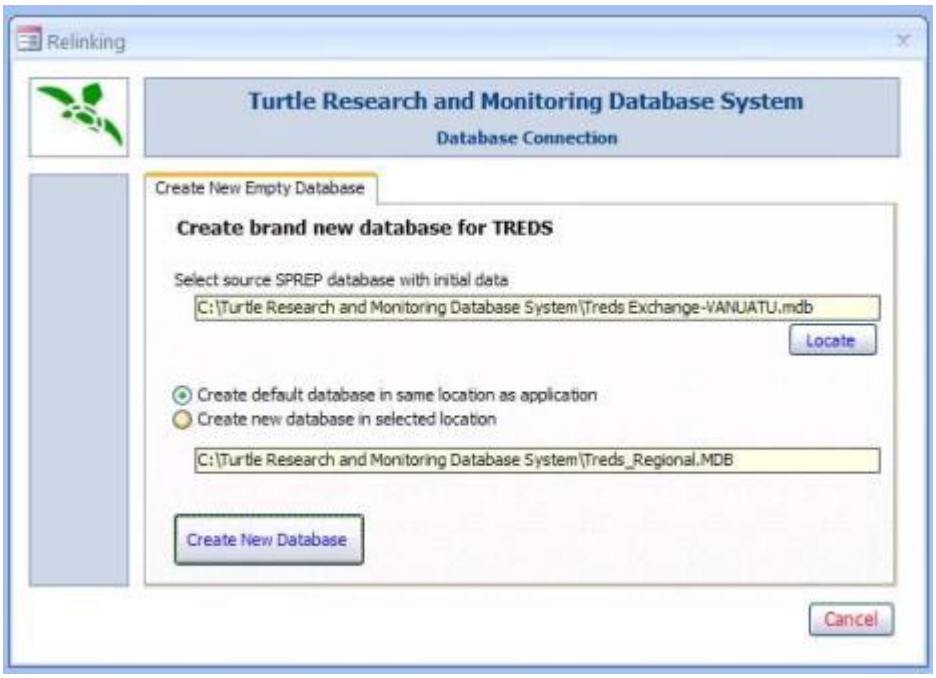


Figure 20: select initial database source and new database location

If you have selected source database with initial data and selected a location for database, click on 'create new database' as shown in figure 20.

3.2.6 Run new Remote database setup

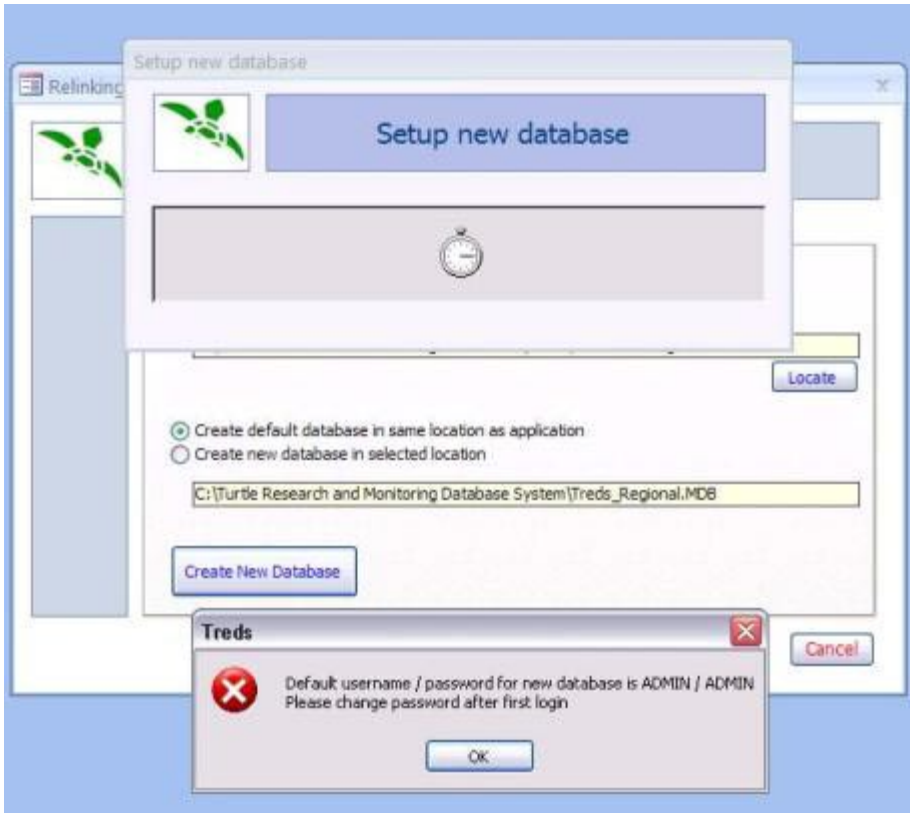


Figure 21: setup new database

Wait for a few minutes while the setup is running and click 'ok' as shown in figure 21 to go to the log on screen.

3.3 Log on to TREDS

Figure 22: User logon screen

After database setup is complete, enter Username and Password as shown in figure 22. The default username is 'ADMIN' and default password is 'admin'. You can change these later on in the database under 'Adminstration' in the 'Main Menu' screen.

3.4 Connect to an existing TREDS database

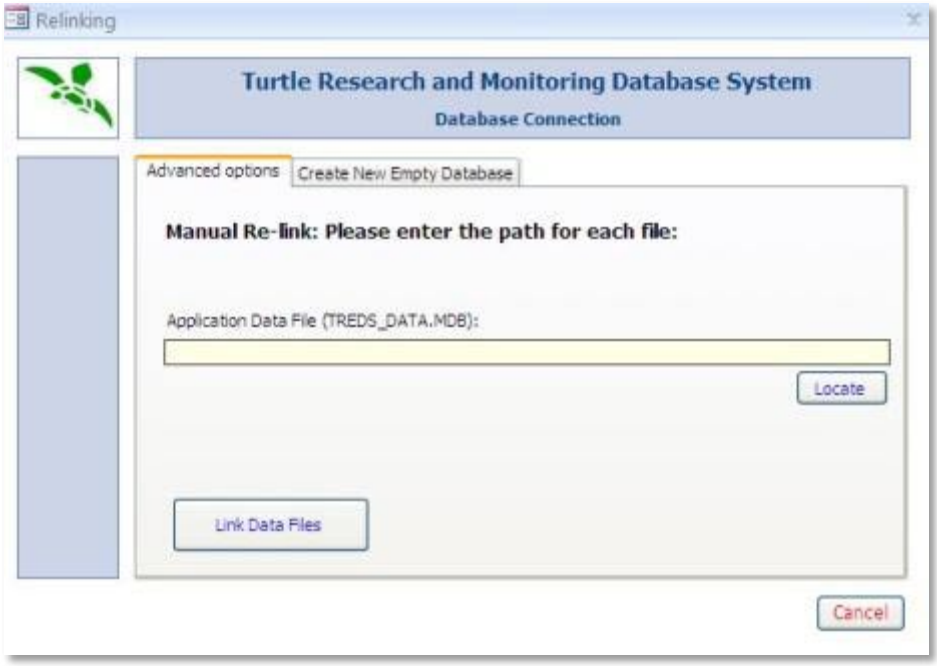


Figure 23: connecting to an existing database

If you are re-linking to an existing database, select 'locate ' as shown in figure 23 to find the existing database file and then select 'link data files'. After you re-link data files, TREDS will run setup as shown in 4.1.2 and you can logon as shown in 4.1.3.

3.5 TREDS Main Menu

Figure 24: TREDS main menu

Welcome to the 'main Menu' of the Turtle Research and Monitoring Database System. Figure 24 shows the TREDS entry screen and menus system available for TREDS. The following section will provide decription of the subsystems initiated by each of the menu button.

4 Considerations before data entry

4.1 User Administration

TREDS is set up with various user levels and password to avoid unnecessary alteration of data held within TREDS. The database adminstrators can set up various users that can access TREDS.

4.2 Projects and fieldwork

Projects and fieldworks must entered be before any data can be entered into TREDS. Projects and fieldworks will be described in detail on in section 6 below. You will be able to enter data into TREDS if projects or fieldworks sections are not completed.

4.3 Tag inventory

All tags (PIT tags, satellite or flipper tags) received, distributed, damaged, missing or lost must entered into the Tag inventory (refer to section 6.3). It is important to note that you cannot enter tag numbers in the any of the data entry screens unless you have recorded a tag number or series in the tag inventory as 'tags received'.

4.4 Localities and sites

All localities must be entered under the reference tables section in before data is entered into TREDS. Sites can be added as you enter data into TREDS.

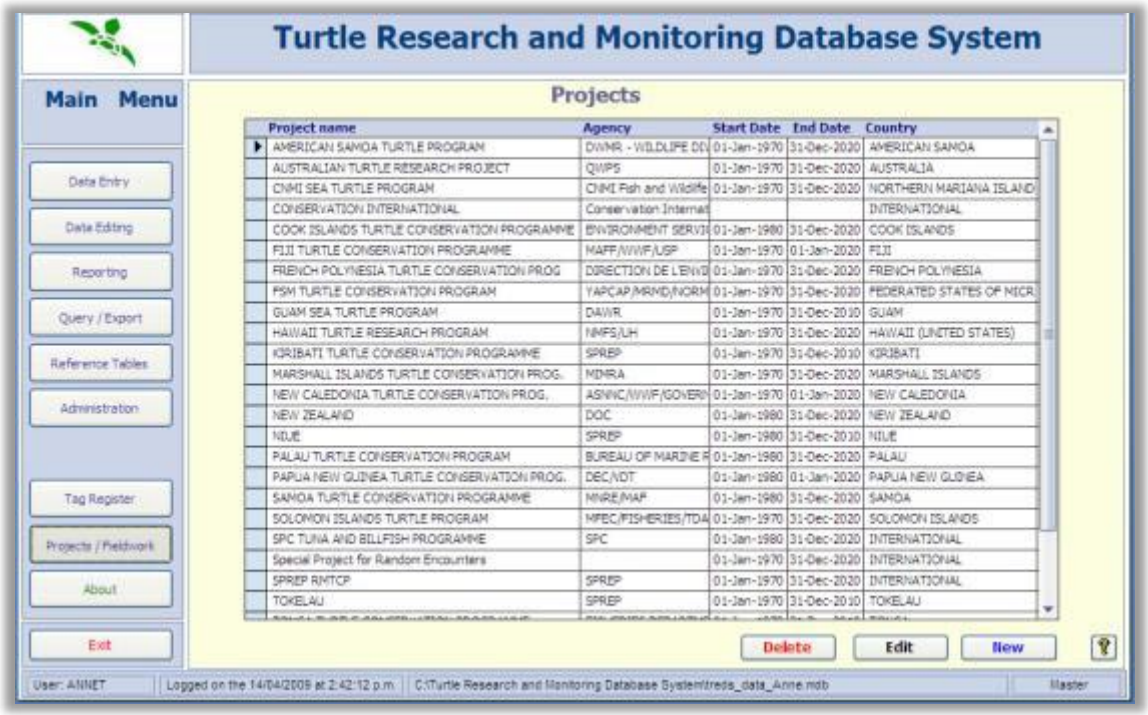
4.5 Tooltips

Throughout the system tooltips are denoted by the "?" mark. Some of this information has been incorporated in to this manual but they are helpful tips that describe each screen within the TREDS system.

5 Projects, Fieldwork and Tag Inventory

5.1 Project

A **project** is defined as an independently funded, managed or goal-oriented operation that can be readily distinguished from other projects. Projects spans long periods of time and can span over several years or decades. A country involved in tagging turtles may be defined as a project e.g. Tuvalu or there may projects within a country but are geographically distinct e.g. Yap State and Chuuk State.



Project name	Agency	Start Date	End Date	Country
AMERICAN SAMOA TURTLE PROGRAM	DWMR - WILDLIFE DIV	01-Jan-1970	31-Dec-2020	AMERICAN SAMOA
AUSTRALIAN TURTLE RESEARCH PROJECT	QWPS	01-Jan-1970	31-Dec-2020	AUSTRALIA
CNMI SEA TURTLE PROGRAM	CNMI Fish and Wildlife	01-Jan-1970	31-Dec-2020	NORTHERN MARIANA ISLAND
CONSERVATION INTERNATIONAL	Conservation Internat			INTERNATIONAL
COOK ISLANDS TURTLE CONSERVATION PROGRAMME	ENVIRONMENT SERVI	01-Jan-1980	31-Dec-2020	COOK ISLANDS
FIJI TURTLE CONSERVATION PROGRAMME	MAFF/WWF/USP	01-Jan-1970	01-Jan-2020	FIJI
FRENCH POLYNESIA TURTLE CONSERVATION PROG	DIRECTION DE L'ENVI	01-Jan-1970	31-Dec-2020	FRENCH POLYNESIA
FSM TURTLE CONSERVATION PROGRAM	YAPCAP/MRMD/NORM	01-Jan-1970	31-Dec-2020	FEDERATED STATES OF MICR
GUAM SEA TURTLE PROGRAM	DAWR	01-Jan-1970	31-Dec-2010	GUAM
HAWAII TURTLE RESEARCH PROGRAM	NMFS/UH	01-Jan-1970	31-Dec-2020	HAWAII (UNITED STATES)
KIRIBATI TURTLE CONSERVATION PROGRAMME	SPREP	01-Jan-1970	31-Dec-2010	KIRIBATI
MARSHALL ISLANDS TURTLE CONSERVATION PROG.	MIMRA	01-Jan-1970	31-Dec-2020	MARSHALL ISLANDS
NEW CALEDONIA TURTLE CONSERVATION PROG.	ASNWC/WWF/GOVERN	01-Jan-1970	01-Jan-2020	NEW CALEDONIA
NEW ZEALAND	DOC	01-Jan-1980	31-Dec-2020	NEW ZEALAND
NIUE	SPREP	01-Jan-1980	31-Dec-2010	NIUE
PALAU TURTLE CONSERVATION PROGRAM	BUREAU OF MARINE R	01-Jan-1980	31-Dec-2020	PALAU
PAPUA NEW GUINEA TURTLE CONSERVATION PROG.	DEC/NDT	01-Jan-1980	01-Jan-2020	PAPUA NEW GUINEA
SAMOA TURTLE CONSERVATION PROGRAMME	MNRE/MAF	01-Jan-1980	31-Dec-2020	SAMOA
SOLOMON ISLANDS TURTLE PROGRAM	MFEC/FISHERIES/TDA	01-Jan-1970	31-Dec-2020	SOLOMON ISLANDS
SPC TUNA AND BILLFISH PROGRAMME	SPC	01-Jan-1980	31-Dec-2020	INTERNATIONAL
Special Project for Random Encounters		01-Jan-1970	31-Dec-2020	INTERNATIONAL
SPREP RMTCP	SPREP	01-Jan-1970	31-Dec-2020	INTERNATIONAL
TOKELAU	SPREP	01-Jan-1970	31-Dec-2010	TOKELAU

Figure 25: Projects List Screen

The selection of Project/Fieldwork button on the 'Main Menu' will take you to the Projects List screen as show in figure 25.

In the projects list screen you will be able to;

- Select 'New' button to add a new project. When you select this option you will be direct to a Project Details (seen in figure 26) where you will be able to add project details to populate the project detail fields;
- View/Modify existing projects from the list by selecting a 'project name' on the project list and then click on 'Edit' button to view Project Details as shown in figure 26 below;
- Delete a project from the list by select 'delete' button.

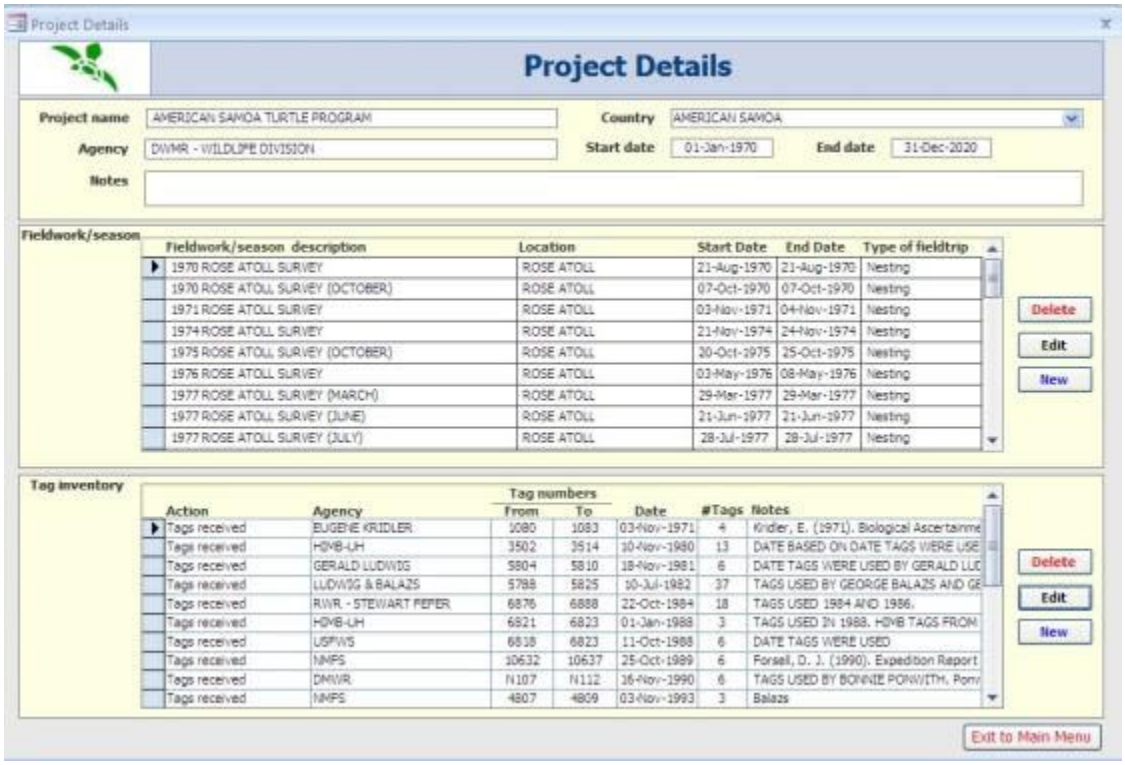


Figure 26: Project Details Screen

When you have completed working on the Project details screen select the 'exit to main menu' button in figure 26 to return to the main menu of TREDS.

5.2 Fieldwork

A **fieldwork** is defined as a dedicated study at a particular site within a finite and much smaller time period than a 'project', e.g. collecting data at a particular site during a nesting season. There are usually many 'fieldworks' within a 'project'.

5.2.1 Fieldwork component

In the fieldwork component box of the 'Project Details' screen (shown in figure 26) you will be able to;

- Select the 'new' button to add a new fieldwork.
- Select the 'edit' button to modify a fieldwork record
- or select the 'delete' button to delete an existing fieldwork record

5.2.2 Fieldwork/Season Details screen

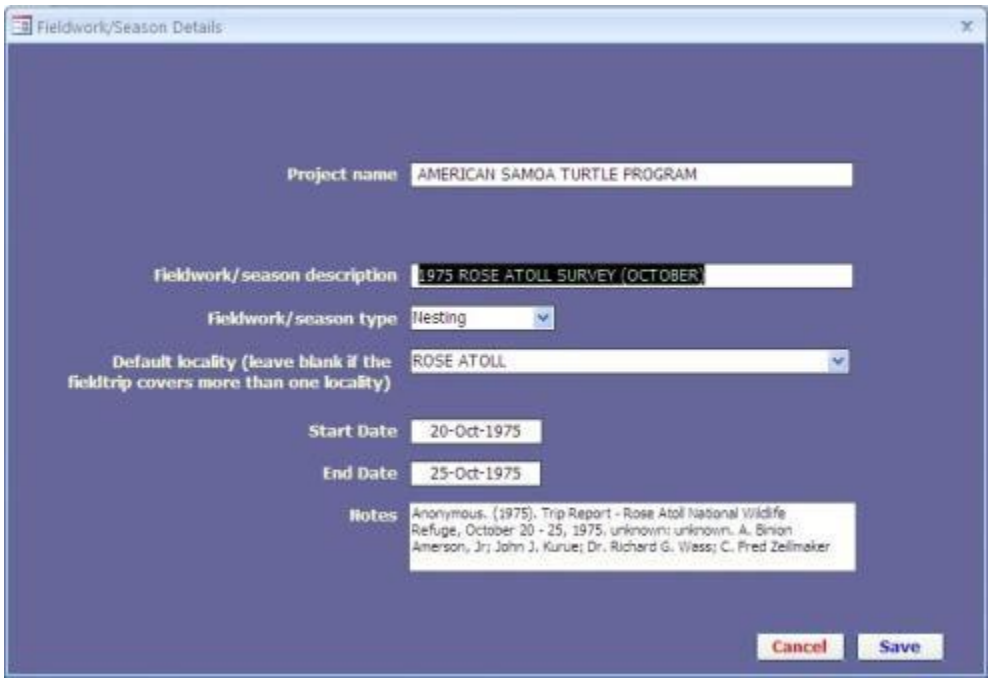


Figure 27: Fieldwork/Season Details Screen

When you select 'new' or 'edit' in figure 26 the Fieldwork details screen (figure 27) will appear. In the fieldwork Details screen includes the following fields;

5.2.2.1 Project name

As this screen is linked to the Project details screen (figure 26), the project name will appear as is in the project details screen.

5.2.2.2 Fieldwork/Season description

Enter the fieldwork/season description for your survey. For easier searching later you may include the year the survey was conducted, the location and what type of survey is being carried out.

5.2.2.3 Fieldwork/Season type

Select the fieldwork/season type from the dropdown menu. The options include *nesting*, *foraging, market survey* or *random.*

5.2.2.4 Default locality

You can select a default locality from the dropdown menu if data you have is confined to one specific locality. In the case that your survey is carried out in more than one locality leave this field blank. If you are working at a specific locality select your locality from the dropdown menu.

5.2.2.5 Start and end dates

Enter the start and end dates of your fieldwork. The date format would be dependent on how the date is set on your computer, for example Australia, it would be dd-mm-yyyy and in the US it would mm-dd-yyyy.

5.2.2.6 Notes

Enter any other extra information on your survey in the notes field. This may include information on who carried out the survey.

5.3 Tag Inventory

5.3.1 Tag inventory component

The tag inventory is used to organise and manage information regarding the receipts and provisions of tags from/to agencies and projects. The types of tags that can be entered in TREDS include flipper tags, satellite tags and PIT tags (refer to section 14.2).

The type of information that is recorded in the tag inventory includes;

- A series of tags received from a manufacturer
- A series of tags issued to another project
- A series of tags used, or returned from a fieldwork unit within a project
- Tags that are lost or damaged

In the Tag Inventory Component of the Project Details (figure 26) you will be able to;

- Select the ‘new’ button to add a new tag or tag series, record any tag lost or damaged
- Select the ‘edit’ button to modify an existing tag or tag series record
- or select ‘delete’ button to delete an existing tag or tag series record

5.3.2 Tag Inventory Details screen

Figure 28: tag Inventory details screen

When you select 'new' or 'edit' button in figure 26, the Tag Inventory Details Screen (figure 28) will appear. In the Tag Inventory Details Screen you will be able to view and enter the following fields;

5.3.2.1 Project

Please refer to 5.2.2.1.

5.3.2.2 Action

In the action field you can select from the following in the dropdown menu;

Tags distributed

This action is for tags distributed to another group (e.g. Fiji Fisheries Department distributes tags to local NGO's or community groups who carry out turtle tagging or an individual e.g. WSB, Vanuatu distributes tags to the turtle monitors in Vanuatu).

Tags received

This action is for tags that are received by you from a tag manufacturer or an agency that coordinates and distributes tags in country.

Tag lost/damaged

This action is for tags lost or damaged during your fieldwork.

Tag returned

This action is for tags that are returned to you unused by individuals or groups carrying out surveys in the field.

Tags used by this project

This action is for tags used in the project and is for miscellaneous tags number from reports which are recorded in TREDS.

5.3.2.3 Agency/Monitor

Enter name of agency or individual that is either receiving, distributing, or returned a tag or reported a lost or damaged tag.

5.3.2.4 Tag range

Enter the start and end tag numbers in your series or tags e.g. R49001 – R49100. In the case you have individual PIT or satellite tag numbers that are not in a series enter each tag number in the both fields provided in tag range (figure 28).

5.3.2.5 Tag material

Select the material that the tag is made of. You can choose one of the following tag materials for the dropdown menu;

- Electronic (used for PIT tags and satellite transmitters)
- Inconel
- Monel
- Other
- Plastic
- Steel
- Titanium

5.3.2.6 Tag size

In this field you select the tag size from the dropdown menu. You can choose from small, medium or large.

5.3.2.7 Date

Refer to 5.2.2.5

5.3.2.8 Notes

Refer to 5.2.2.6

6 Tag register

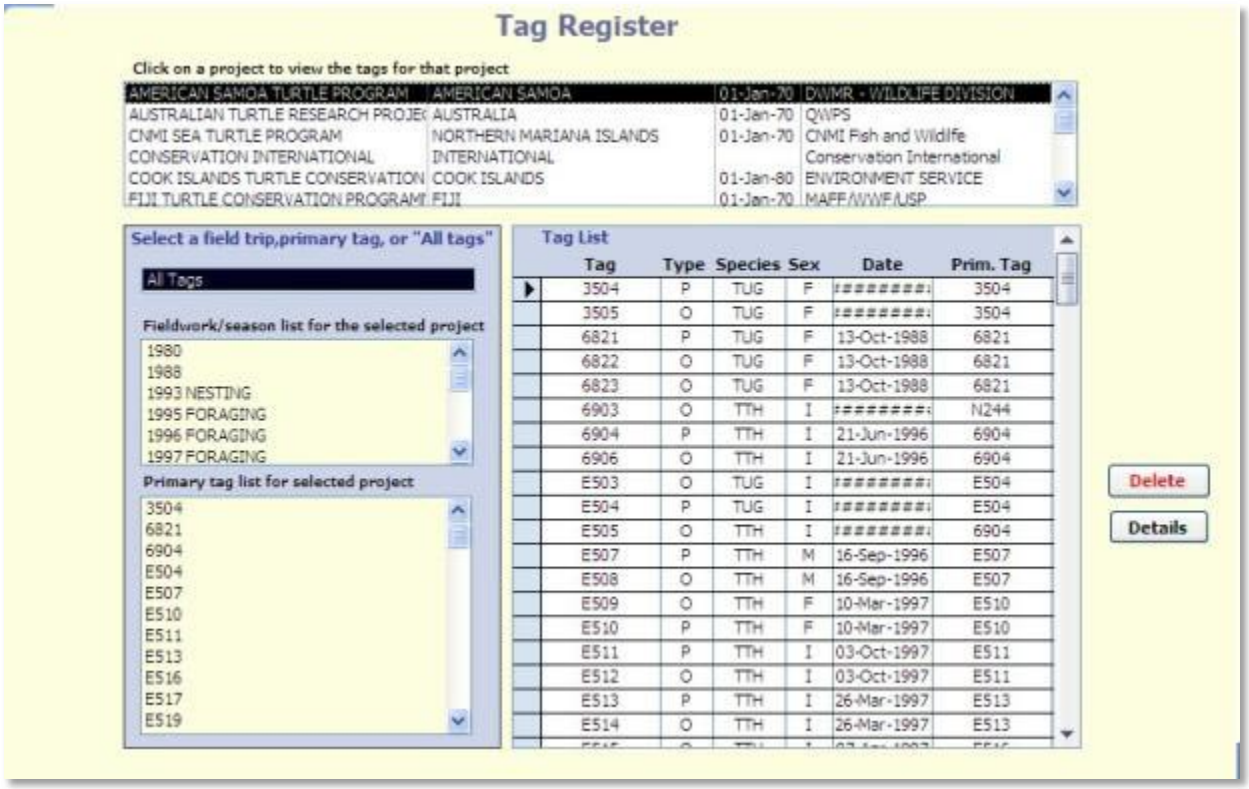


Figure 29: Tag Register Screen

The tag register is used to organise information on tags applied to turtles or tags lost, damaged or missing for one reason or another. The type of information recorded includes the species of turtle, condition of turtle, the tagger's name/initials, dates and times of tagging, sex, etc. to view details of each tag select 'details' and to delete a tag record in the tag register select 'delete' in figure 29. Note that a primary tag cannot be deleted unless all turtle encounters and other tags linked to the primary tag are deleted first.

6.1 Tag details

Figure 30: tag details

The tag details screen (figure 30) shows you the tag details of each individual turtle.

In the tag details screen (figure 30) you can;

- Select ‘ edit’ to edit the tag details
- Select ‘save’ to save a record
- Or select ‘cancel’ to cancel record.

6.1.1 Editing a tag detail record

When you select ‘edit’ as seen in figure 30 TREDS will allow you to access the following fields;

6.1.1.1 Species

In this field you can select turtle species from the dropdown menu. Refer to table 13.4 for the full species reference table and subsection 8.4 to view the species reference table.

6.1.1.2 Sex

View and edit the sex of a tagged turtle by selecting female, male, indeterminate or unsexable from the dropdown menu as shown in figure 30.

6.1.1.3 Tag number

View and edit the tag number of a tagged turtle.

6.1.1.4 Primary tag

A **primary tag** is tag number that is used in TREDS as a unique identifier for an individual turtle. So even if the primary tag is removed or other tags are applied the primary tag will remain that unique identifier for an individual tagged turtle. In this field you can view and ‘edit’ the primary tag number.

6.1.1.5 Date applied

In this field you can view and 'edit' the date that a tag was applied to an individual turtle.

6.1.1.6 Tagger

Taggers are individuals carrying out tagging during surveys. In this table you can select a tagger from the dropdown menu. Refer to section 8.5 for more information how to add new taggers or edit information on existing taggers.

7 Administration

7.1 Main Administration Screen

Figure 31: Main Administration Screen

When you select the administration button on the main menu, the main administration screen (figure 31) will open up to give your options carry out the following;

- Add or edit user administration;
- Create a new, empty TREDS database;
- Re-link database to a different data file;
- Export a subset of the database;
- And, import a projects data into the database.

7.2 User Administration

Figure 32: User Administration Screen

When you select the 'user administration' as seen in figure 31, the user administration screen (figure 32) will open and the available fields are as follows;

7.2.1.1 User

You can add or delete a user or edit an existing user.

7.2.1.2 Password

You can set a password for each user. This protects the data from unauthorised access.

7.2.1.3 User Access level

You can set the user access levels for each user from the dropdown list in figure 32.

Global administrator

Full access to all data across all countries and projects. Available only in master database.

Regional administrator

Full access to all data across a country. Cannot add/edit categories.

Data Entry

Can enter and modify data but view lookup tables.

Viewer

Can only view data but cannot make modification to the data.

7.2.1.4 View format for Latitude / Longitude

In this field you can select the view format from each user by selecting one of the following from the dropdown menu.

Latitude can be in the following formats followed by N or S;

- Degrees, minutes and seconds (entered as DDMMSS);
- Degrees and decimal minutes (entered as DDMM.MMM);
- Decimal degrees (entered as DD.DDDD).

Longitude can be in one of the following formats followed by W or E;

- Degrees, minutes and seconds (entered as DDDMMSS);
- Degrees and decimal minutes (entered as DDDMM.MMM);
- Decimal degrees (entered as DDD.DDDD).

Select 'close' to exit the user administration screen and return to the main menu.

7.3 Create a new, empty TREDS database

Figure 33: Creating a New Database

Refer back to subsections 3.1 and 3.2. Select 'cancel' in figure 33 to return to the main menu screen.

7.4 Re-link this database to a different data file

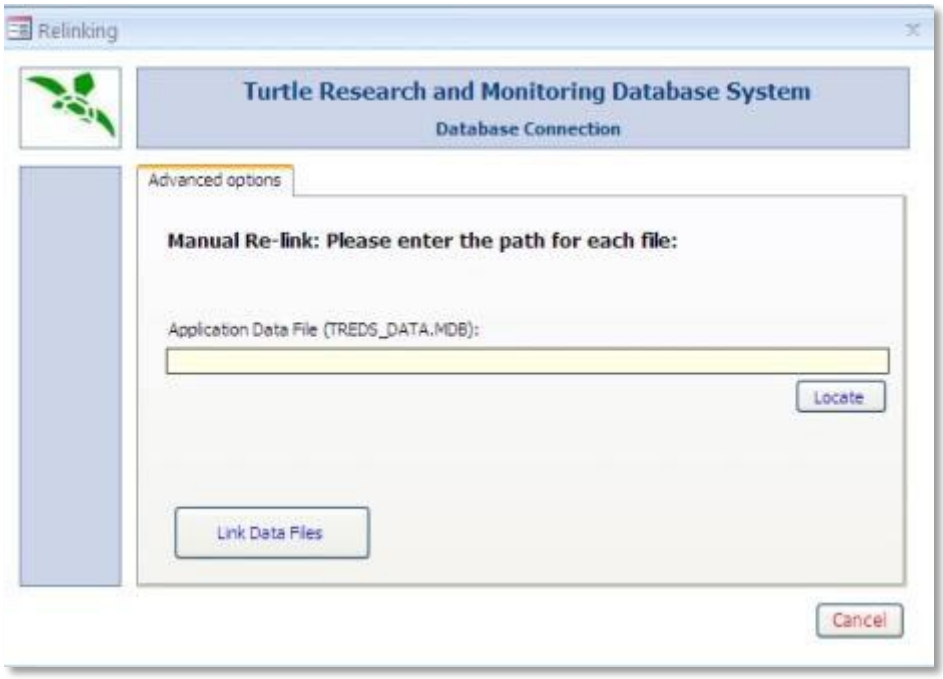


Figure 34: Re-linking to a different datafile

Refer back to subsection 3.4. for instructions to re-link database to a different datafile.

7.5 Export a subset of the database

7.5.1 Select export type

Figure 35: Export a subset of TREDS

When you select 'export a subset of the database' button as shown in figure 31, the 'export subset of TREDS screen (figure 35) will open up. Select the export type you want to execute from the following options and select the 'create' button as shown in figure 35.

7.5.1.1 Export all data for a country

This option allows you to select a country and then all data for projects in the selected country will be exported as a datafile.

7.5.1.2 Export project with all related data

This option allows you to select a single project from the dropdown menu. Select 'create' as shown in figure 35 to export a subset of TREDS as a datafile.

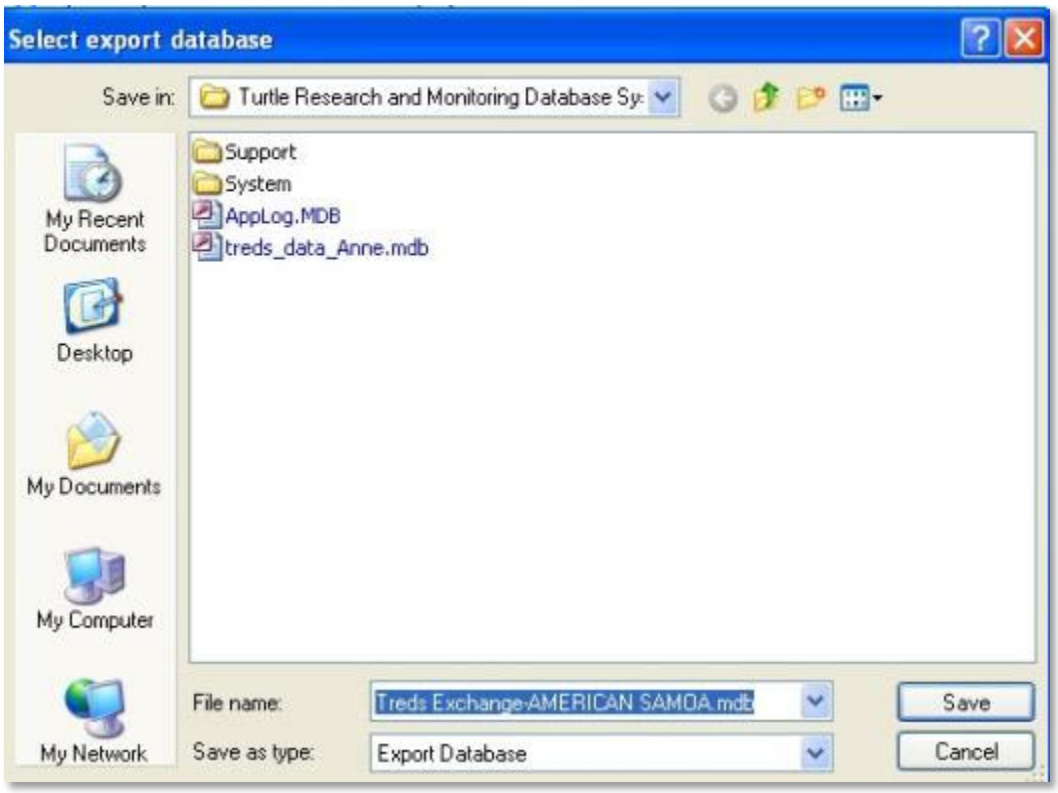


Figure 36: Select name of export datafile

7.5.2 Select location and file name for exported data

7.5.2.1 Select location

Select the location in which you would like to store the file to be exported as shown in figure 36.

7.5.2.2 Select file name

Insert a file name for your dataset or choose the default filename (e.g. Treds exchange-AMERICAN SAMOA.mdb)created by TREDS and select 'save' to save the datafile or select 'cancel' to cancel the operation as shown in figure 36.

Figure 37: export datafile

7.5.2.3 Create database to be exported

Select 'export' as shown in figure 37 to create your dataset and export it to the location you have selected. Click 'Ok' as shown in figure 37 when data has been successfully exported.

7.6 Importing a projects data into master database

The 'import a project data into the database' function allows you to import data from a remote database into a master database.

If you are running a master database you will use this option to import data from remote databases that are connected to your master database. For example; all project databases setup from the main SPREP TREDS master database send the data integration files to SPREP and SPREP will import this data into main master TREDS at SPREP.

7.6.1 Starting data import into a master database

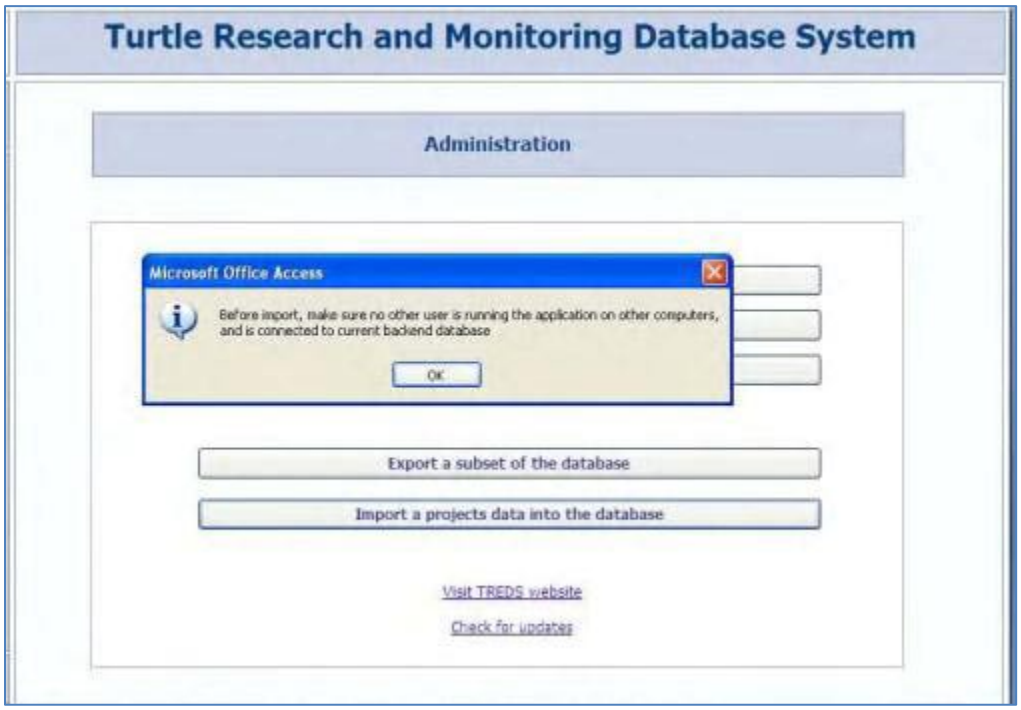


Figure 38: import projects data into the database

To start the process of importing a project's data into a master database select the 'import a projects data into the database' in the Administration Menu as shown in figure 38. Before importing make sure that no other user is using TREDS as is connected to the current database, click 'ok' as shown in figure 38 to open the data import screen.

7.6.2 Locate the datafile to be imported

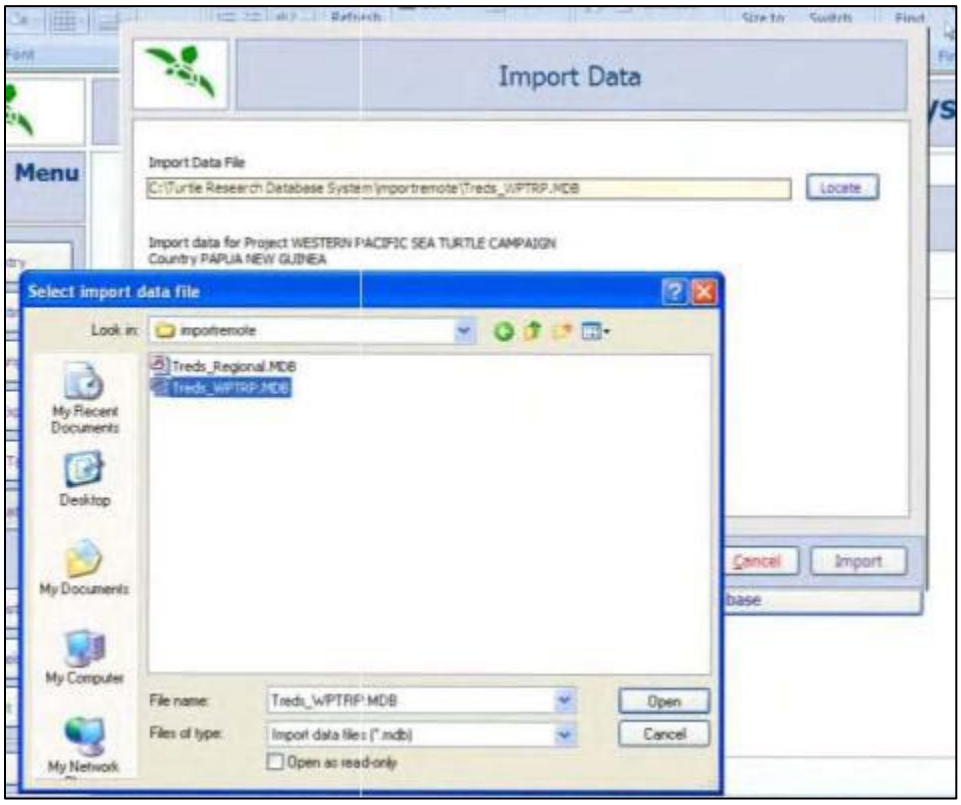


Figure 39: locate datafile to import

In the import data screen (figure 39) click on 'locate' to locate and select the data file (e.g. Treds_regional.MDB), click 'open' and then 'import' to begin the import process (figure 40). Wait for a few minutes while the data import process is running. When the data import is completed click on 'ok' as shown in figure 40.

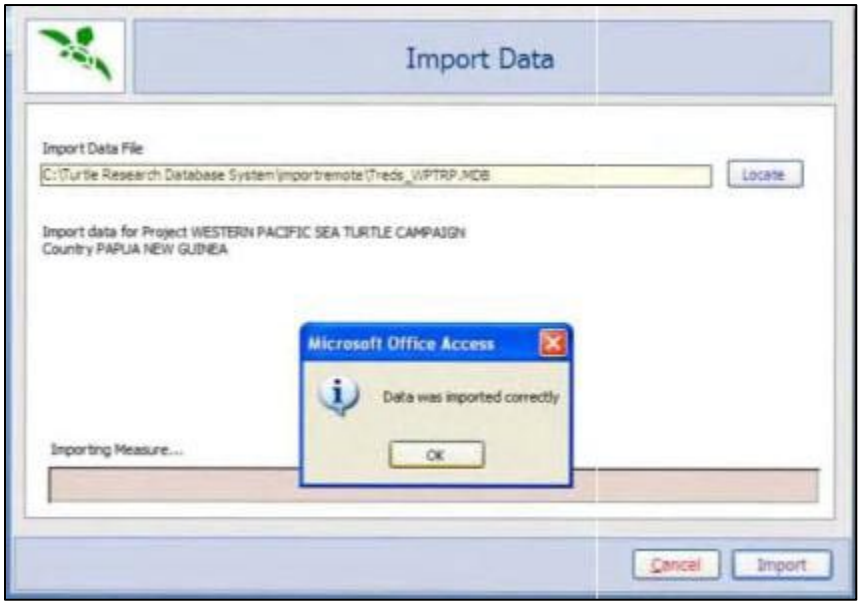


Figure 40: importing process

8 Reference Tables (editing)

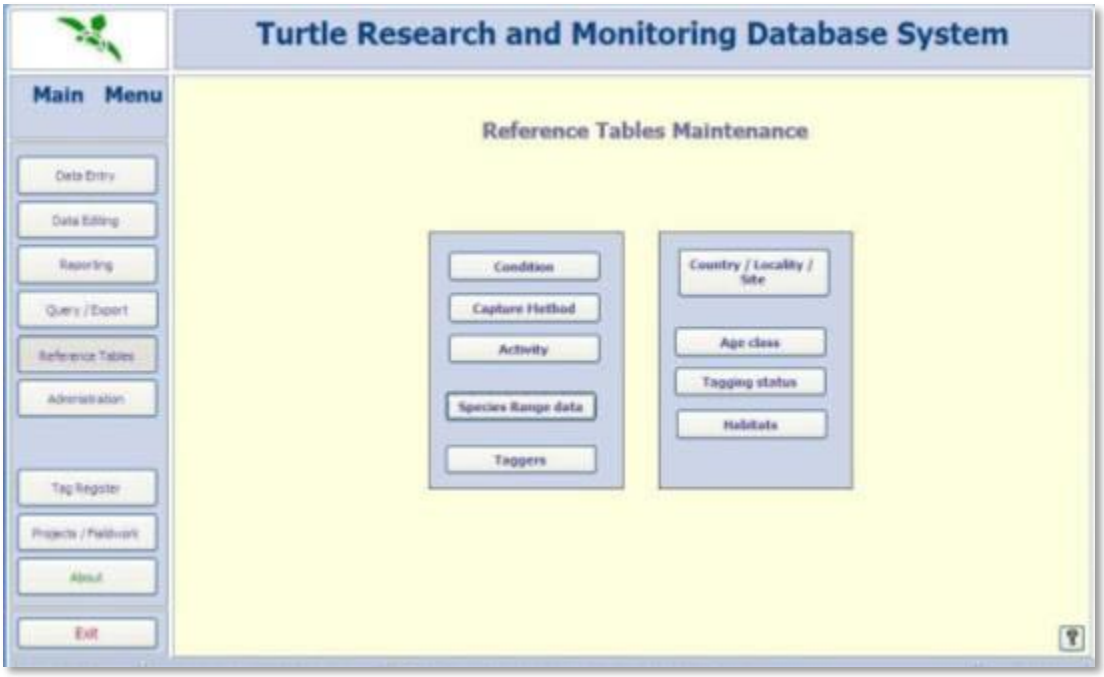


Figure 41: reference tables maintenance screen

Select 'reference tables' in the main menu as shown in figure 41 to carry out maintenance on the reference tables listed.

It is important to note that condition, capture method, activity, age class, tagging status and habitats reference tables contain all descriptions possible used the describe these fields in the encounter details form in sections 10 and 11. In each table you can set your descriptions as standard or advanced as required by your type of data collected at your study site. If the 'advanced' field in any of these tables is left un-ticked then these would be the standard or default descriptions that will appear in the dropdown menus for these fields in the encounter details forms during data entry (refer to section 10). When the 'advanced' field is ticked then these fields will only show if you select the + sign next to each of the condition, capture method, activity, age class, tagging status and habitats fields during data entry and data editing.

Any new additions or deletion to the reference within the TREDS can only be carried out by the global administrator in the master database.

8.1 Condition

The conditions reference table contains code and descriptions to describe the following;

- general health and reproductive condition of a turtle condition
- migratory status of an individual turtle
- freshness of carcasses

- additional behavioural data those described in the ‘activity’
- Removal of a turtle from a study.

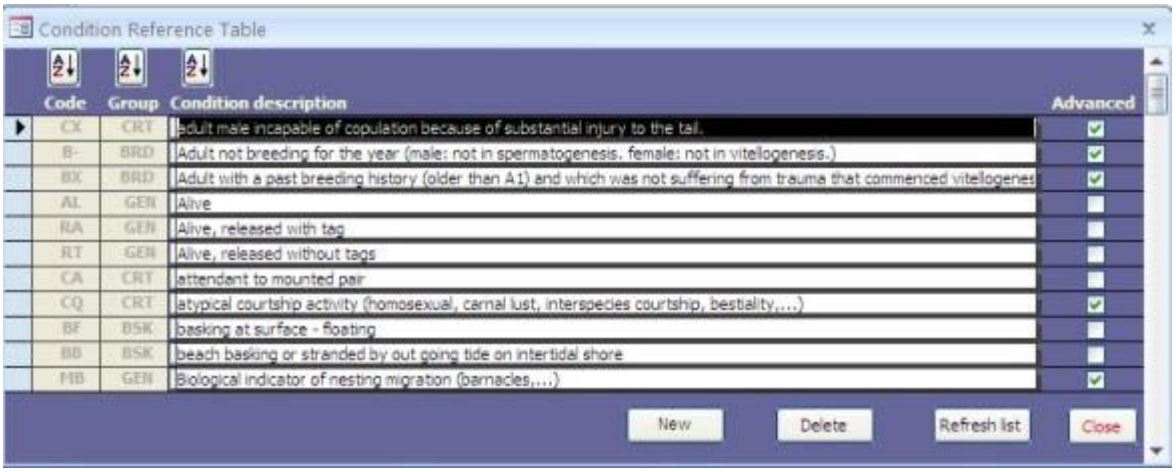


Figure 42: Condition Reference Table screen

In Condition Reference Table screen (figure 42) you will be able to set a condition as standard (leave ‘advance’ un-ticked) or advanced (tick ‘advanced’ field).

8.2 Capture method

The capture method table contains codes and descriptions that describe the method by which a turtle was encountered (captured) in terms of non-nesting. For nesting turtles it describes the success of a nesting crawl.

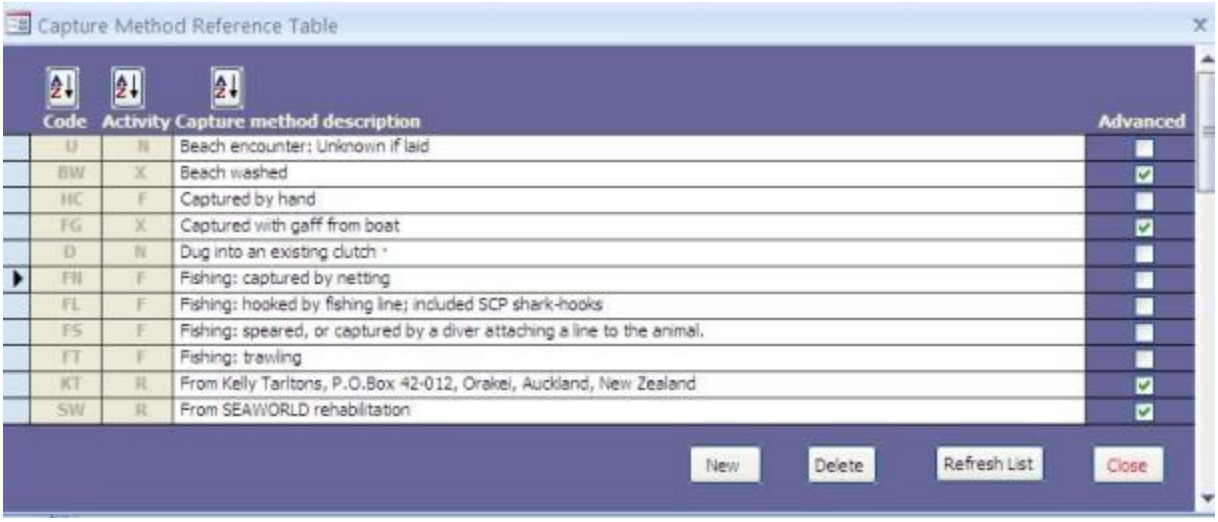
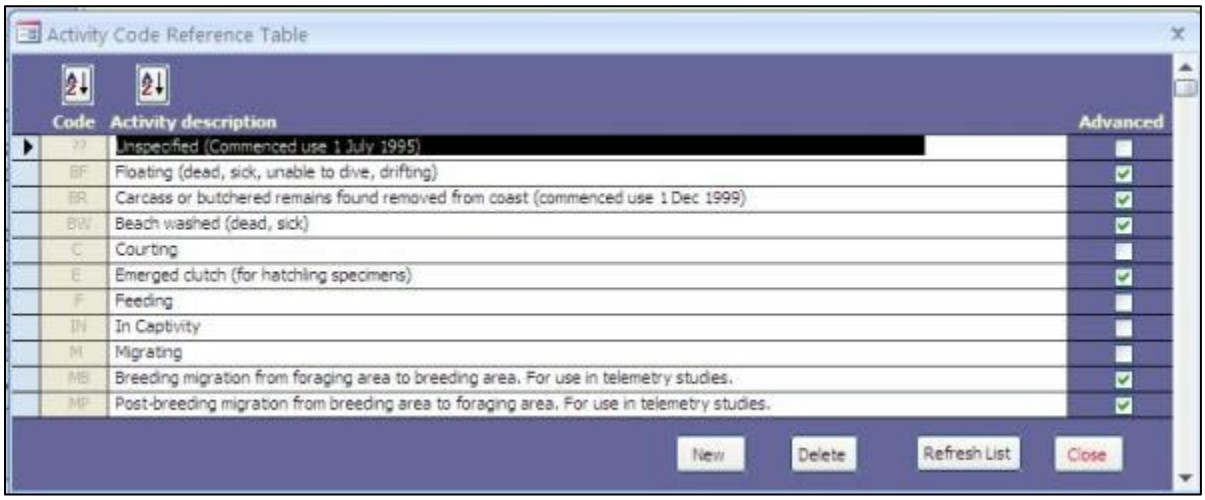


Figure 43: Capture Method Reference table

In Capture method Reference Table (figure 43) you will be able to set a condition as standard (leave ‘advance’ un-ticked) or advanced (tick ‘advanced’ field).

8.3 Activity

The Activity reference table contains code and descriptions to describe the primary activity of a turtle when encountered.



Activity Code Reference Table

Code	Activity description	Advanced
??	Unspecified (Commenced use 1 July 1995)	☐
BF	Floating (dead, sick, unable to dive, drifting)	☑
BR	Carcass or butchered remains found removed from coast (commenced use 1 Dec 1999)	☑
BW	Beach washed (dead, sick)	☑
C	Courting	☐
E	Emerged clutch (for hatchling specimens)	☑
F	Feeding	☐
IN	In Captivity	☐
M	Migrating	☐
MB	Breeding migration from foraging area to breeding area. For use in telemetry studies.	☑
MP	Post-breeding migration from breeding area to foraging area. For use in telemetry studies.	☑

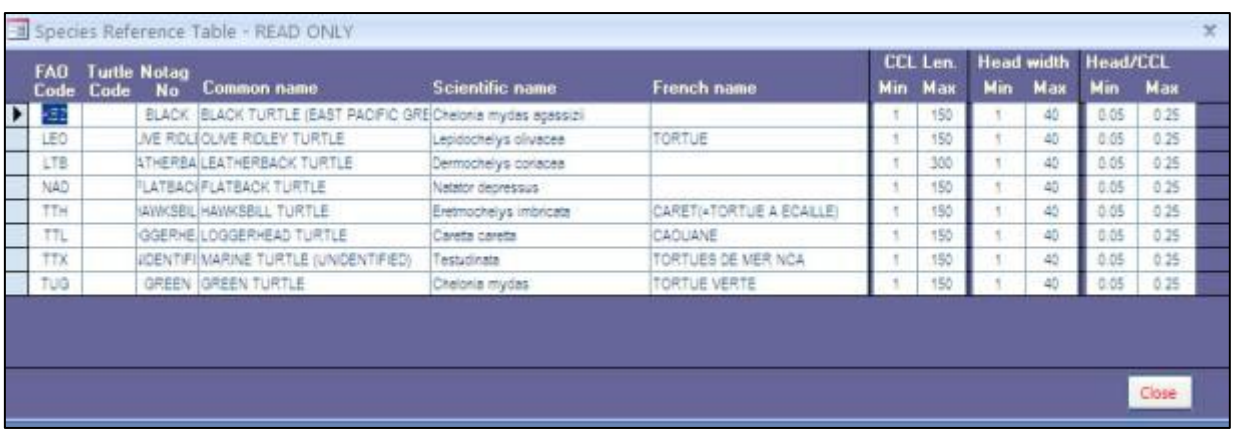
New Delete Refresh List Close

Figure 44: Activity Reference table

In Activity Reference Table (figure 44) you will be able to set a condition as standard (leave 'advance' un-ticked) or advanced (tick 'advanced' field).

8.4 Species Range data

The Species range data table (figure 45) contains code and descriptions expected for each species of marine turtle that includes the FAO code, common name, scientific name, French name and their minimum and maximum morphometric measurements. The species range data table can only be altered by a regional administrator.



Species Reference Table - READ ONLY

FAO Code	Turtle Code	Notag No	Common name	Scientific name	French name	CCL Len. Min	CCL Len. Max	Head width Min	Head width Max	Head/CCL Min	Head/CCL Max
[illegible]		BLACK	BLACK TURTLE (EAST PACIFIC GRE	Chelonia mydas agassizii		1	150	1	40	0.05	0.25
LEO		IVE RIDL	OLIVE RIDLEY TURTLE	Lepidochelys olivacea	TORTUE	1	150	1	40	0.05	0.25
LTB		THERBA	LEATHERBACK TURTLE	Dermochelys coriacea		1	300	1	40	0.05	0.25
NAD		LATBAC	FLATBACK TURTLE	Natator depressus		1	150	1	40	0.05	0.25
TTH		AWKSBIL	HAWKSBILL TURTLE	Eretmochelys imbricata	CARET(=TORTUE A ECAILLE)	1	150	1	40	0.05	0.25
TTL		GGERHE	LOGGERHEAD TURTLE	Caretta caretta	CAOUANE	1	150	1	40	0.05	0.25
TTX		IDENTIFI	MARINE TURTLE (UNIDENTIFIED)	Testudinata	TORTUES DE MER NCA	1	150	1	40	0.05	0.25
TUG		GREEN	GREEN TURTLE	Chelonia mydas	TORTUE VERTE	1	150	1	40	0.05	0.25

Close

Figure 45: Species Reference Table screen

8.5 Taggers

The taggers table (figure 46) provides the list of taggers in TREDS for each country. The tagger table can only be altered by a national or regional administrator.

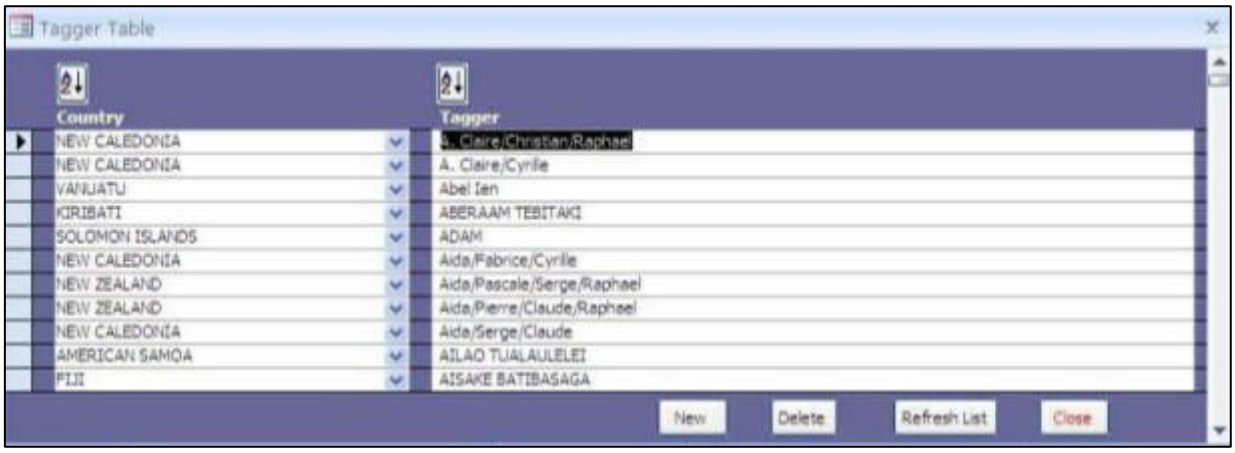


Figure 46: Tagger table screen

In the tagger table screen (figure 46) you can;

- Select 'add' to add a new tagger;
- Select 'delete' to delete a tagger from the tagger table
- Or Select 'refresh list' to refresh the tagger table.

Figure 47: Add Tagger Details screen

To add a new tagger click on 'new' in the tagger table screen (figure 46) and the 'add tagger detail screen' (figure 47) will open up. Select a country from the dropdown menu, enter tagger name (figure 47) and click on 'save' to save the record or 'cancel' to cancel and return to the tagger table.

8.6 Country/Locality/Site

In the country/locality/sites reference table you will be able to view and edit the following tables;

8.6.1 Countries

This table lists the codes and country names for all countries listed in TREDS.

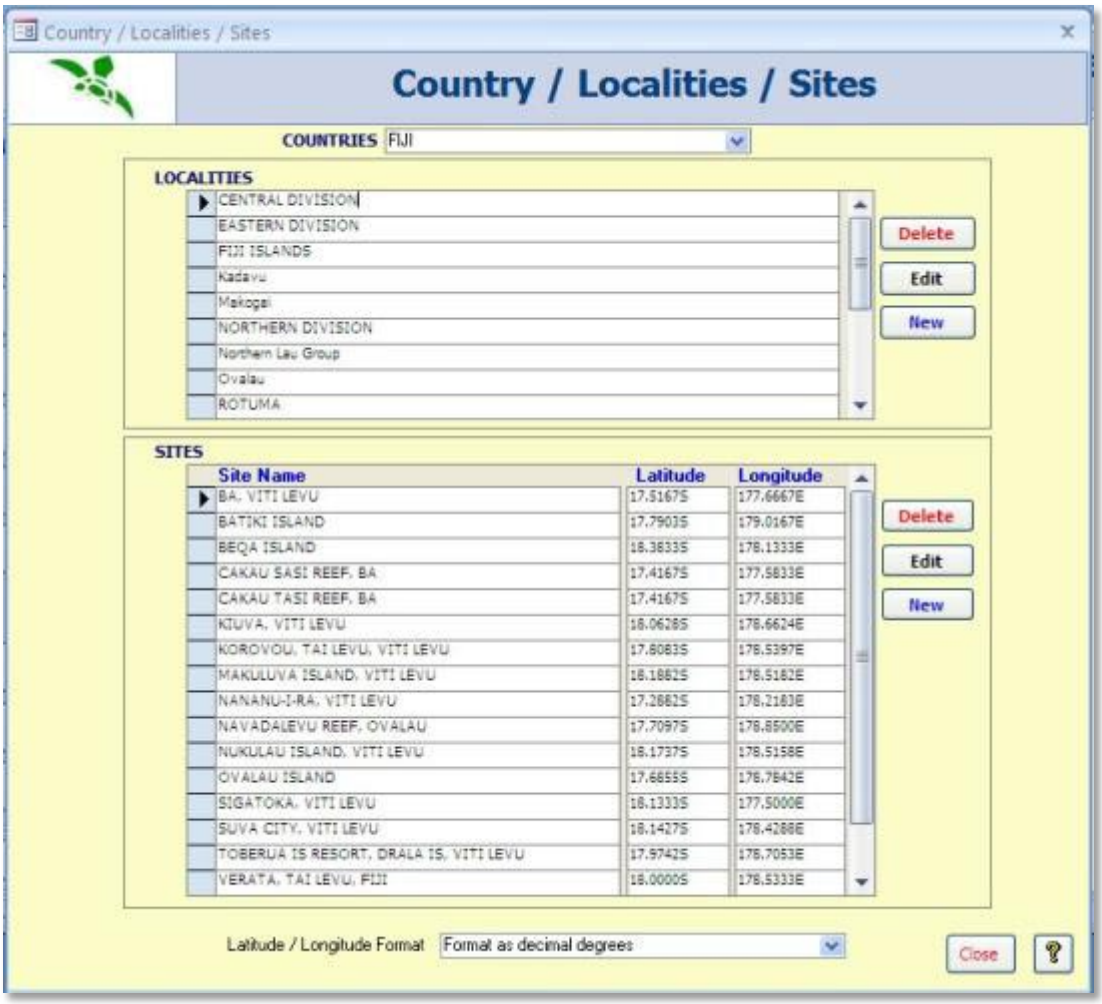


Figure 48: Country/Locality/Sites Reference Table screen

8.6.2 Localities

This table lists all the codes and descriptions for all localities within a fieldwork. Localities are grouped under countries.

8.6.2.1 Localities component

In the localities component (figure 48) you can;

- Select 'new' to add a new locality;
- Select 'edit' to edit an existing locality;
- Or select 'delete' to delete an existing locality

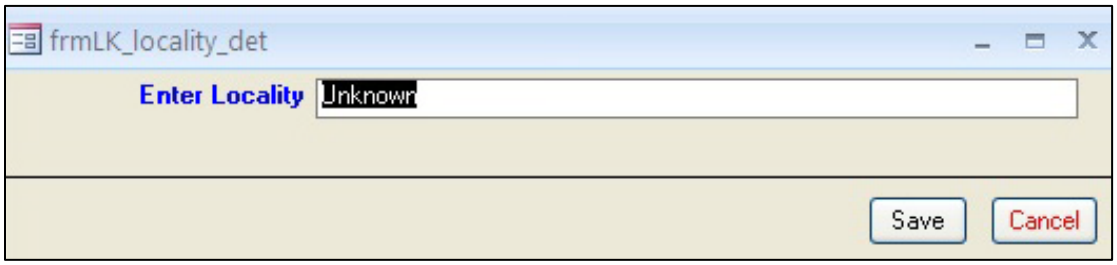


Figure 49: locality detail screen

8.6.2.2 Adding a new locality or editing an existing locality

Select 'new' or 'edit' in the localities component (figure 48) and the site detail screen (figure 49) will open up. In the site detail screen you can enter a new site or edit an existing site

8.6.3 Sites

This table lists all the codes and descriptions as well as positional information (that is; latitude/longitude) for each site within a fieldwork. Several sites may be grouped under one locality.

In the sites component (figure 48) you can;

- Select 'new' to add a new site;
- Select 'edit' to edit an existing site;
- Or select 'delete' to delete an existing site.

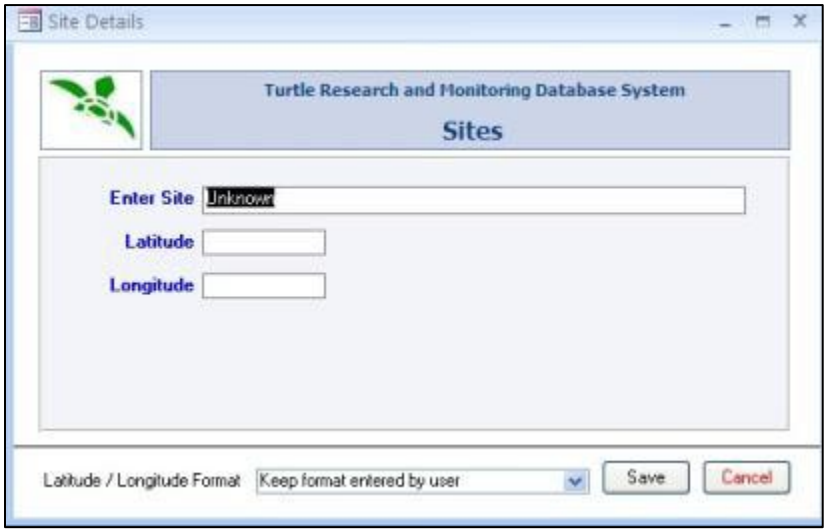


Figure 50: site detail screen

8.6.3.1 Adding a new site or editing an existing site

Select 'new' or 'edit' in the sites component (figure 48) and the site detail screen (figure 50) will open up. In the site detail screen you can enter a new site or edit an existing site. When

entering a new site you may also enter the latitude and longitude of the site if it is known. For more detail on the formatting fro latitude and longitude refer to subsection 7.2.1.4.

8.7 Age class

The age class reference table provides codes and descriptions describing the maturity/age class of the turtle.

Age class Code Reference Table

Code	Age class description	Advanced
A	Adult (known sexually mature)	☐
A?	Adult sized, maturity not guarenteed.	☐
A00	The breeding season of an adult. 0 = Adult female that has yet to ovulate. Oviduct and ovary structurally indistinguishable from th	☑
A01	The breeding season of an adult. 1 = Adult female in her 1st breeding season. reeding season code refers to the period from comr	☑
A02	The breeding season of an adult. 2 = Adult in her 2nd breeding season.	☑
A03	The breeding season of an adult. 3 = Adult in her 3rd breeding season.	☑
A04	The breeding season of an adult. 4 = Adult in her 4th breeding season.	☑
A05	The breeding season of an adult. 5 = Adult in her 5th breeding season.	☑
A06	The breeding season of an adult. 6 = Adult in her 6th breeding season.	☑
A07	The breeding season of an adult. 7 = Adult in her 7th breeding season.	☑
A08	The breeding season of an adult. 8 = Adult in her 8th breeding season.	☑

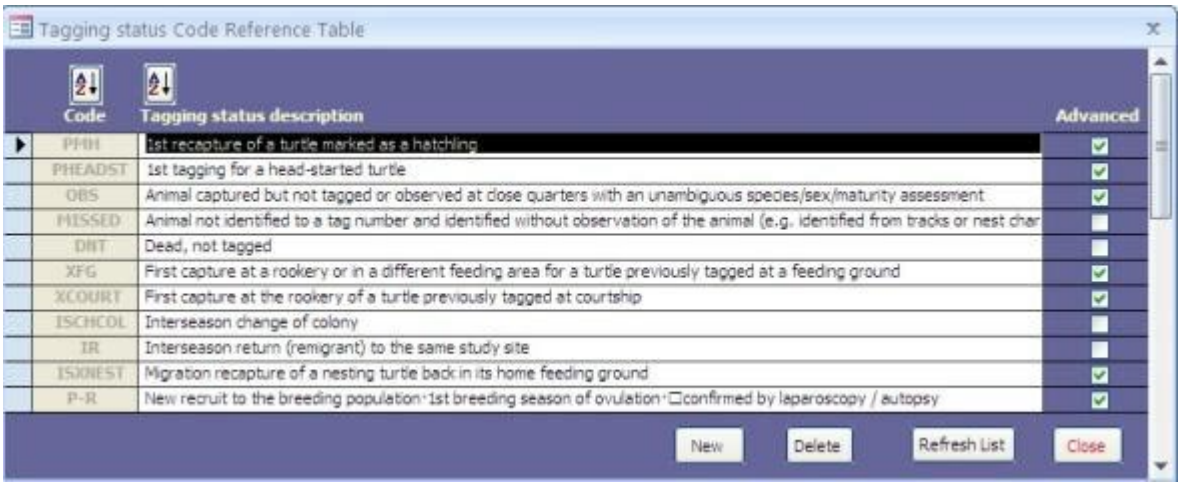
Close

Figure 51: age class reference code reference table screen

In age class reference code reference table screen (figure 51) you will be able to set each age class description as standard (leave 'advance' un-ticked) or advanced (tick 'advanced' field).

8.8 Tagging status

The tagging status table provides codes and descriptions indicating the tagging status of a turtle encountered during a fieldwork. The codes describe the origin of the turtle with respect to the study site under investigation.



Tagging status Code Reference Table

Code	Tagging status description	Advanced
PHH	1st recapture of a turtle marked as a hatchling	☑
PHEADST	1st tagging for a head-started turtle	☑
OBS	Animal captured but not tagged or observed at close quarters with an unambiguous species/sex/maturity assessment	☑
MISSED	Animal not identified to a tag number and identified without observation of the animal (e.g. identified from tracks or nest char	☐
DNT	Dead, not tagged	☐
XFG	First capture at a rookery or in a different feeding area for a turtle previously tagged at a feeding ground	☑
XCOURT	First capture at the rookery of a turtle previously tagged at courtship	☑
ISCHCOL	Interseason change of colony	☐
IR	Interseason return (remigrant) to the same study site	☐
ISONEST	Migration recapture of a nesting turtle back in its home feeding ground	☑
P-R	New recruit to the breeding population·1st breeding season of ovulation·☐confirmed by laparoscopy / autopsy	☑

New Delete Refresh List Close

Figure 52: Tagging status Reference table

In the tagging status reference table screen (figure 52) you can;

- Select 'new' to add a new tagging status description;
- Select 'delete' to delete existing tagging status description
- Or Select 'refresh list' to refresh the tagging status reference table.

Furthermore, you will be able to set each tagging status description as standard (leave 'advance' un-ticked) or advanced (tick 'advanced' field).

8.9 Habitats

The Habitat reference table contains the habitat codes and descriptions within a study site. You can add new habitats to the list if you are a global administrator for your TREDS, if you are registered as a remote user please contact your global administrator to add or edit the habitat reference table.

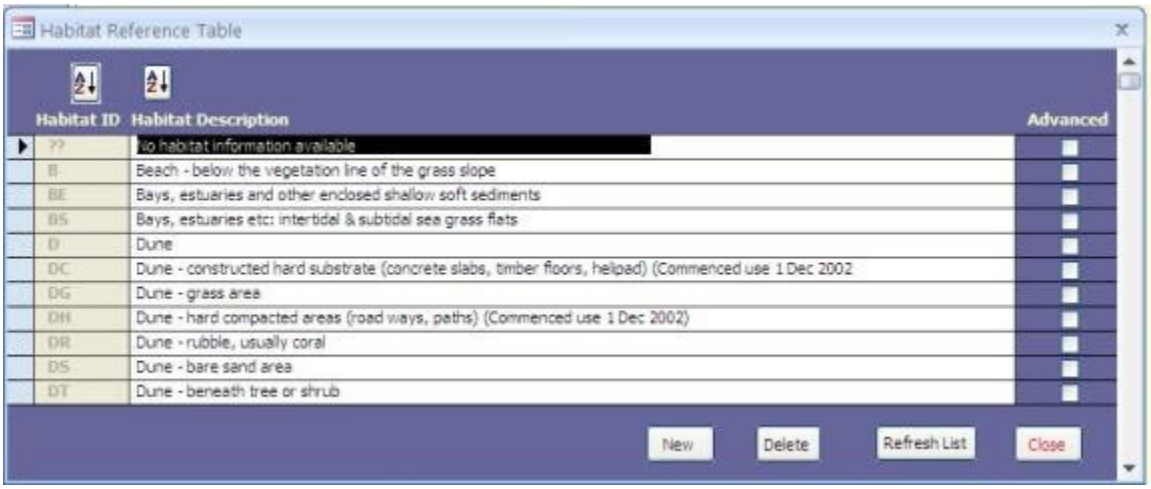


Figure 53: Habitats Reference Table screen

In the habitat Reference Table screen (figure 53) you can;

- Select 'new' to add a habitat description;
- Select 'delete' to delete existing habitat description
- Or Select 'refresh list' to refresh the habitat reference table.

Furthermore, you will be able to set each tagging status description as standard (leave 'advance' un-ticked) or advanced (tick 'advanced' field).

9 Data entry

Figure 54: Data Entry Main Screen

Please select your Country, the project name and the season (for example Vanuatu, WSB Turtle Project, 2006/07 Nesting Season) as shown in figure 54. If your project has not been set up, please exit this page and select Projects/fieldwork and instructions as shown section 5. Once you have saved your Projects and fieldwork in the system you can return to this page to continue data entry.

9.1 Nesting: Summary

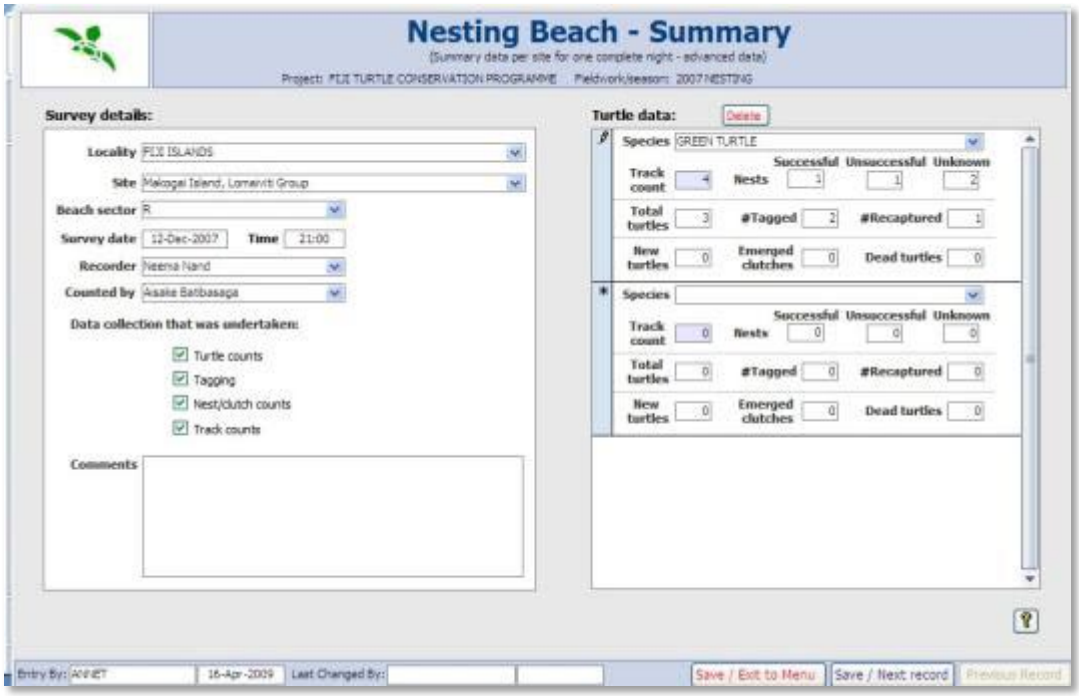


Figure 55: Nesting Summary Data Entry Screen

When you select the 'nesting: summary' button in the data entry menu, the nesting: summary screen (figure 55) will open to allow you to enter nesting beach data per site per 1 complete night. In this screen you will be able to enter the following;

9.1.1 Survey details

Locality

Select locality from dropdown menu.

Site

Select site name from dropdown menu.

Beach sector

Select beach sector.

Survey date and time

Enter survey date as *dd-mm-yyyy* and time in 24hour format e.g. 2100.

Recorder and counted by

Select name of recorder and person counting from dropdown menus.

Data collection to be undertaken

Tick one or several of the 4 data collection options.

a. *Turtle counts* result from surveys of all turtle counted on a beach in one regardless of whether the turtles were tagged or untagged.
b. Tagging data summarises the number of turtle tagged in one night
c. Nests counts are usually carried out the morning after nesting to attempt to record successful and unsuccessful nesting attempts.
d. Track counts results from surveys the morning after nesting to count the total number of emergence tracks.

Comments

Insert any other comments.

9.1.2 Turtle Data

In the turtle data component of the Nesting Beach – Summary screen (figure 55) you will to be able to 'add' or 'delete' turtle data for a specific species. Data entry for the turtle data component is as follows;

Species

Select 'species' from dropdown menu

Track counts

Track counts result form a surveys carried out the morning after nesting in which the total number of emergence tracks are counted.

Nests

Enter number of nests that were 'successful' (confirmed laid nests), 'unsuccessful' (confirmed false crawls) and 'unknown' (nesting success undetermined). Total number of nests should be equal to the track count.

Total turtles

Total turtles refer to the total number of turtles encountered on the beach on the night prior to morning track count. Enter of numbers of 'tagged' and 'recaptured' turtles within a season.

New turtles

New turtles refer to turtles that have encountered and tagged for the first time in a season (turtles that were tagged in an earlier season and encountered for the first time in this season are included as new turtles). Enter number of new turtles counted from emerged clutches (clutches from which turtle emerged) as well as dead turtles (turtle washed up dead or died on the beach).

9.2 Nesting: Detailed

9.2.1 Encounter detail

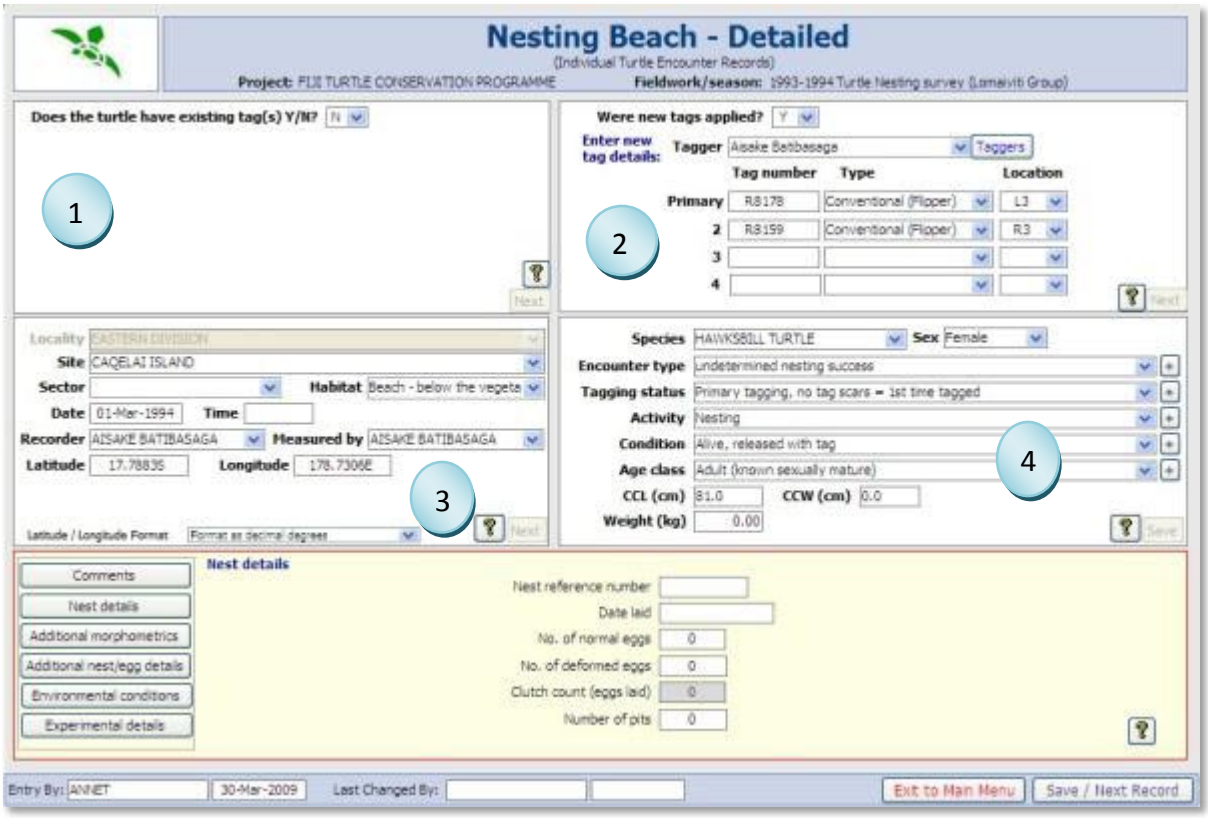


Figure 56: Individual Turtle Nesting Beach encounter Data Entry Screen

9.2.1.1 Step 1 - Existing tags

Use this option to input information on tags already existing on a turtle when it is encountered and not any new tags that you apply on this encounter. Tag information from any re-encounters within the same seasons, different seasons or locations can be entered here.

When you find a turtle with more than one tag and you are unsure which one is the Primary tag (refer to 6.1.1.4), just enter any tag number as the system will find this tag number and identify the Primary tag number

Select yes 'Y' or no 'N'.

9.2.1.2 Step 2 - New tags applied

Were new tags applied?

Select yes 'Y' or no 'N'.

If you selected 'Y' then the first tag recorded will be the primary tag (refer to 6.1.1.4). It is not important which particular type of tag you select as the primary tag but ideally it would best

that you select a conventional flipper or PIT tag which will stay on longer and can be recorded repeated as opposed to a satellite tag that can get lost within the same season.

Taggers

Select an existing tagger from the dropdown menu. If the tagger name is not in the dropdown menu then select 'taggers' button and then refer to subsection 8.5 for instructions on how to add a new tagger.

New tag numbers

- Enter in full tag number (which should be within the tag series allocated to this project)
- select from dropdown list the type of tag applied (refer to table 14.2)
- select tag position on the turtle (refer to figure 48 and table 14.3)

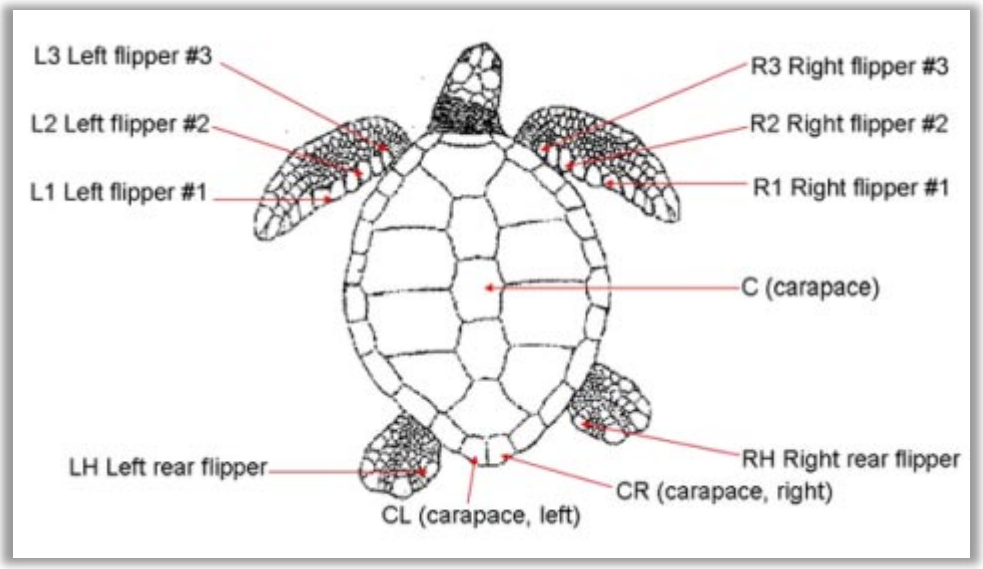


Figure 57: tag Position help

9.2.1.3 Step 3 - Location, habitat and surveyor information

Locality

Select locality of your encounter from the dropdown menu. Refer to table 13.6.2. If you set your default locality in the fieldwork (refer to 5.2.2.4), no data entry will required for this field.

Site

Select site name from dropdown menu. Refer to Site Table 13.6.3.

Sector

Enter sector of beach sector.

Habitat

Select a habitat from the dropdown menu. Refer to table for habitat descriptions.

Date and time

Enter date and time. Date is in dd/mm/yyyy format which time is in the 24hr format e.g. 1pm is 1300.

Recorder

Enter the name of the person recorder the data collected.

Measured by

Enter the name of the person taking the measurements from the turtle and counting eggs or hatchlings.

Latitude and longitude

No data entry needed for this field as it linked to the site field.

9.2.1.4 Step 4 - Turtle encounter detail

Encounter type

Select encounter (capture method) type from dropdown menu. Refer to section 8.2 to modify dropdown menu and table 13.1 to view all encounter types.

Tagging status

Select tagging status from dropdown menu.

Activity

Select activity from dropdown menu. Refer to section 8.3 and table 13.2 for details on activity descriptions.

Condition

Select condition from dropdown menu. Refer to section 8.1 and table 13.3 for more detail on condition description.

Age class

Select age class from dropdown menu. Refer to section 8.7 and table 13.7.

Standard morphometric measurements

Refer to sub-section 9.2.3.1 for CCL and CCW measurements. Enter Weight in kilograms (kg). All measurements are rounded to 1 decimal place, e.g. 103.6.

9.2.2 Nest details

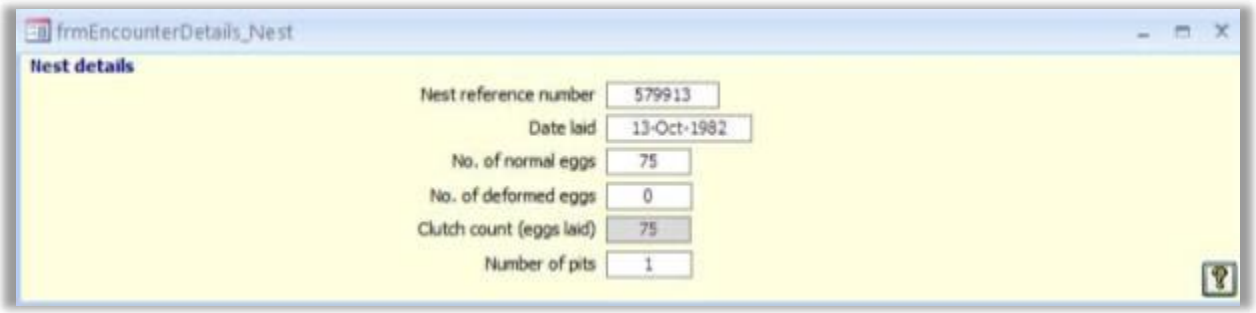


Figure 58: Nest details sub-screen

Nest reference number

Enter a nest reference number (figure 58) if the nest is recorded as part of project records or if the nest is moved to (and numbered in) a hatchery another protective enclosure. If no nest number is recorded then you can use a logical numbering system or just number nests 1, 2, 3 and so forth throughout the season.

Date laid

Enter date nest was laid.

No. of normal eggs

Enter number of normal eggs. **Normal eggs** are those that fall within the normal size range for eggs of the species and are likely to produce hatchlings.

No. of deformed eggs

Enter number of deformed. **Deformed eggs** are those that are small or oversized and are unlikely to produce hatchlings.

Clutch count

The **clutch count** is the total number of eggs laid. The clutch count is automatically calculated in TREDS.

No. of pits

Enter number of pits made by the turtle during nesting.

9.2.3 Additional Morphometrics Sub-screen

The additional morphometrics sub-screen allows you to enter all other measurements that can be taken of a turtle. Each of the measurements in the additional morphometrics sub-screen will be explained in detail with diagrams in this subsection.

Figure 59: Additional Morphometrics

9.2.3.1 Carapace and plastron measurements

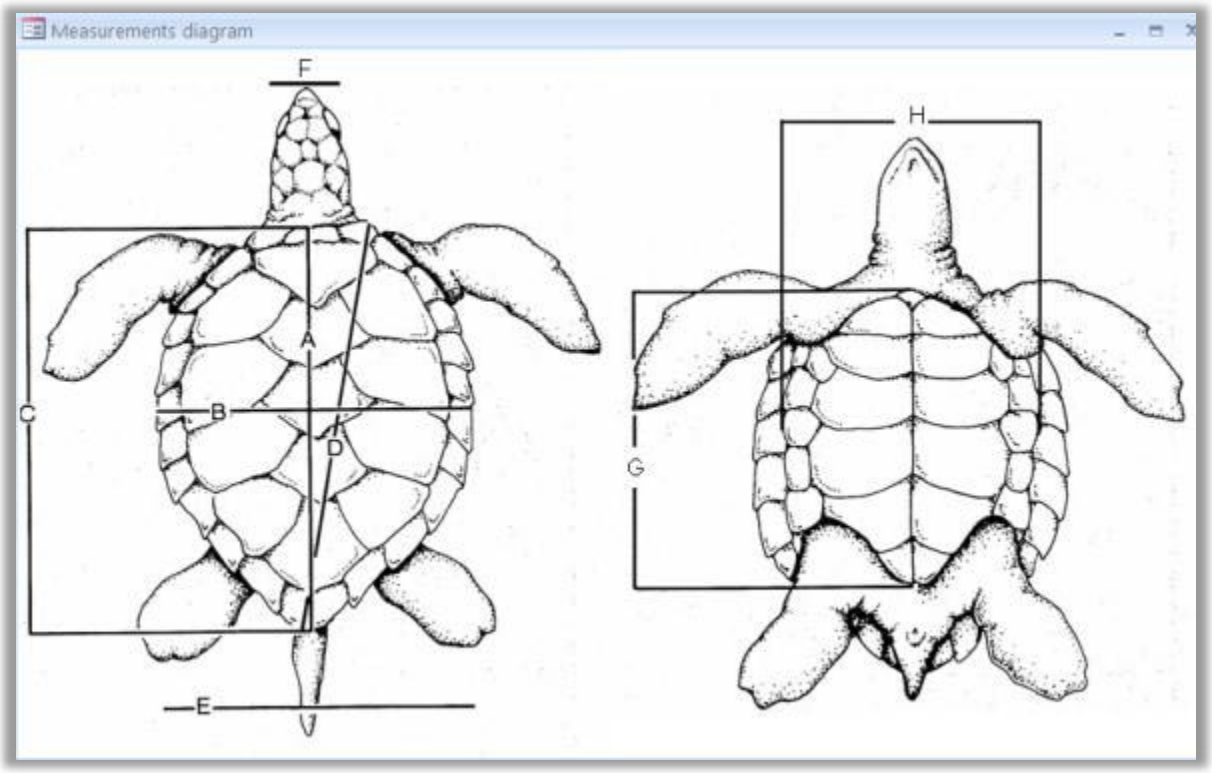


Figure 60: carapace and plastron measurements

Curved carapace length

Curved Carapace length (shown as 'A' in figure 60) is measured from the anterior point at midline (nuchal scute) to the posterior notch at midline between supracaudals using a measuring tape. Units are in centimetres.

Curved carapace width

Curved carapace width (shown as B in figure 60) is measured at the widest point on the carapace using a measuring tape. Units are in centimetres.

Straight carapace width

Straight carapace width (shown as C in figure 60) is measured from the nuchal to posterior tip along the midline using calipers. Units are in centimetres.

Straight carapace length

Straight carapace width (shown as E in figure 60) is measured from the nuchal to posterior tip along the midline using calipers. Units are in centimetres.

Carr's SCL

Carr's Straight carapace length is measured as a straight line distance between the foremost reach nuchal scute diagonally across to the carapace to the rearmost tip of the supracaudal scute (shown as D in figure 60).

9.2.3.2 Plastron measurements

Plastron length

Plastron length (shown as G in figure 60) is measured along the midline from the joining skin and plastron at the anterior edge to the posterior –most projection of the bone.

Plastron width

Plastron width (shown as H in figure 60) is measured across the plastron at the its widest point perpendicular to the length.

9.2.3.3 Tail length measurements

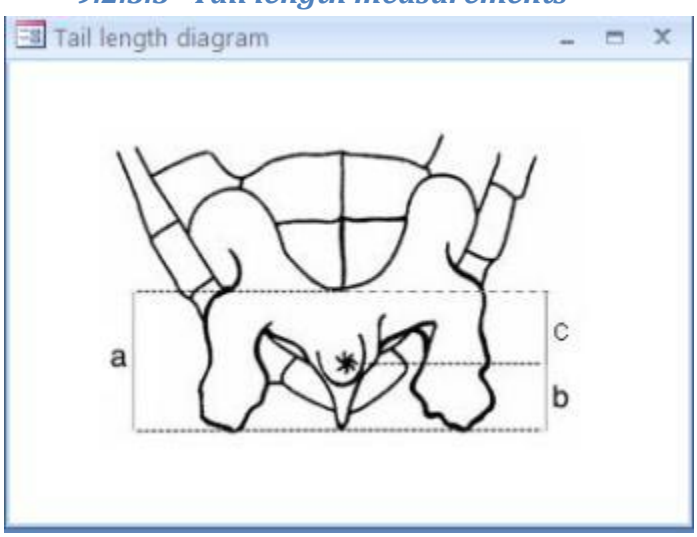


Figure 61: tail measurements diagram

Total tail length (TTL)

Total tail length is measured in centimetres (cm) from the tip of the tail to the trailing edge of the plastron (shown as 'a' in figure 61).

Post Cloacal tail length (PTL)

Post cloacal tail length is measured in centimetres (cm) from the tip of the tail to the mid cloacal opening (shown as 'b' in figure 61).

Cloaca to plastron tail length

Cloaca to plastron tail length is measured in centimetres (cm) from the trailing edge of the plastron to the mid cloacal opening (shown as 'c' in figure 61).

9.2.4 Additional nest/egg details sub-screen

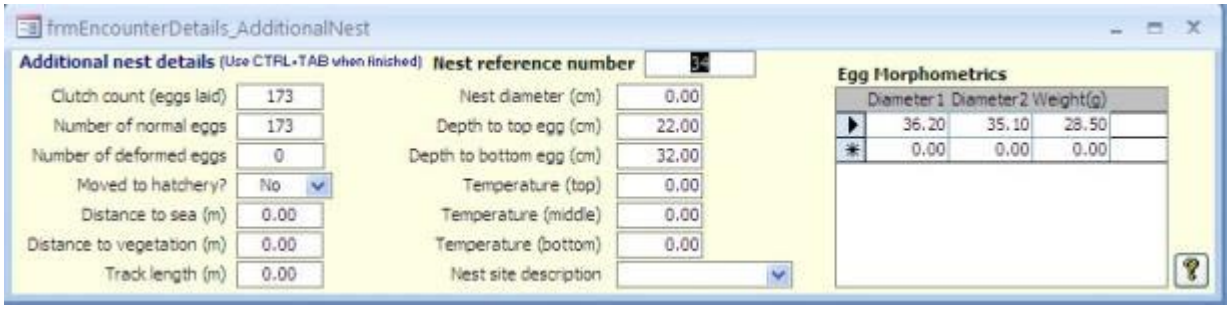


Figure 62: Additional nest/egg details

Clutch count, number of normal and deformed eggs

Carries forward numbers entered in 'nest details' sub-screen (refer to section 9.2.2 and figure 58).

Were eggs moved to hatchery?

Select 'Yes' or 'No' from dropdown list.

Distance to sea

Enter distance in metres (m) from nest to the mean high water mark.

Distance to vegetation

Enter distance in metres (m) from the nest to vegetation line at the top of the beach.

Track Length

Enter the total length of a turtle crawl in metres (m) from the point that she exits the sea and returns.

Nest diameter

Enter the widest point in centimetres (cm), approximately at the middle of the egg chamber.

Depth to top egg and depth to bottom egg

Enter the depth to the top egg and to bottoms egg for each consecutive field in centimetres (cm). This measurement is used to give an indication of the overall depth under the sand for the clutch.

Temperature

Enter the temperatures at the top, middle and bottom of the nest in degrees Celsius (^{o}C).

Nest site description

Select from the dropdown menu the best descriptor for the relative amount of shading as an indication for the solar energy likely to be received by the nest during incubation. Refer to table 14.12.

Egg morphometrics

Enter measurements of egg diameters in centimetres (cm) and weight in grams (g) of a subset of the clutch (usually 10 – 20 eggs per clutch). The two diameter measurements refer to widest and narrowest diameter of each egg measured.

9.2.5 Environmental conditions sub-screen

Figure 63: Environmental Details

Wind direction

Select the wind direction from the dropdown menu. Refer to table 14.8 for full table of wind direction descriptions.

Wind strength

Select the wind strength from the dropdown menu. Refer to table 14.5 for full table of wind strength descriptions.

Cloud cover (%)

Select cloud cover percentage from dropdown menu. Refer to table 14.14 for full table of cloud cover descriptions.

Sea conditions

Select sea condition from dropdown menu. Refer to table 14.9 for full table of sea condition descriptions.

Rain

Select rain descriptions from dropdown list. Refer to table 14.7 for list of rain descriptions.

Ambient temperature

Enter ambient temperature in degrees Celsius (^{o}C).

Water depth (for foraging studies only)

Select water depth from dropdown menu. Refer to table 14.6 for water depth descriptions.

Bottom composition (for foraging studies only)

Select bottom composition from dropdown menu. Refer to table 14.13 for bottom composition descriptions.

Shoreline type (for foraging studies only)

Select shoreline type from dropdown menu. Refer to table 14.10 for shoreline type descriptions.

9.2.6 Experimental Details

9.2.6.1 Laparoscopy

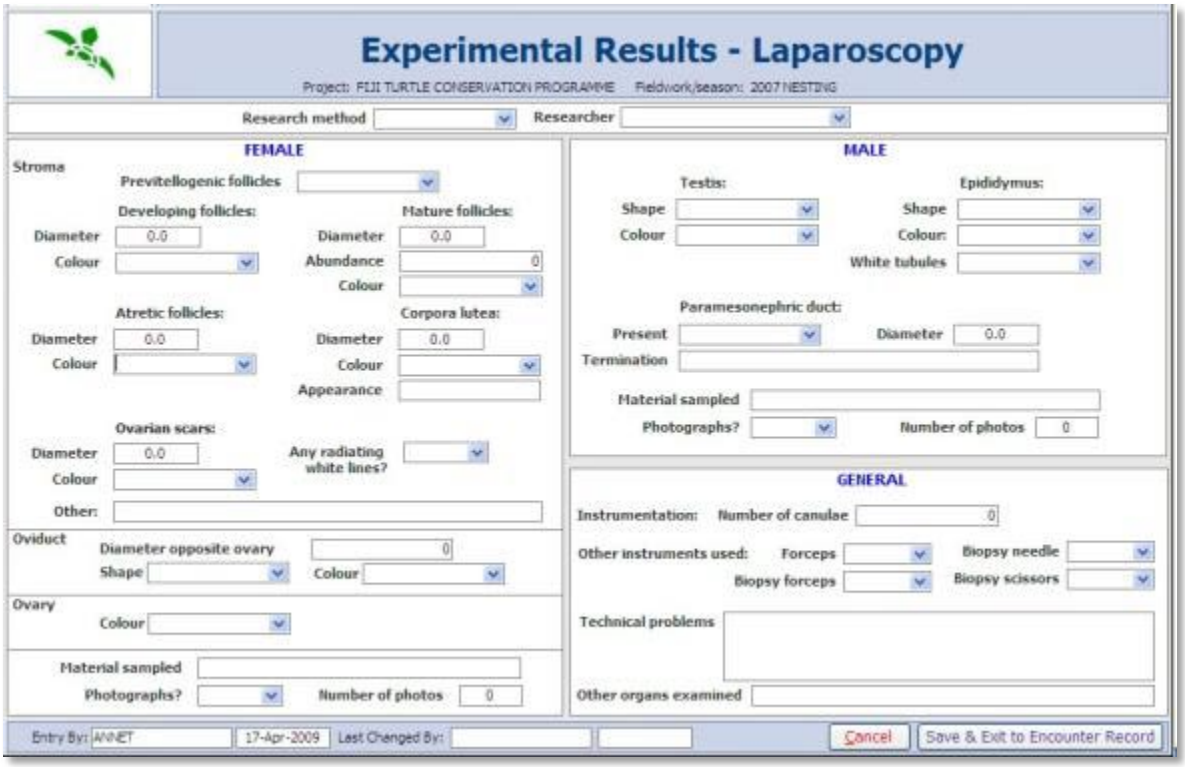


Figure 64: Experimental Results – Laparoscopy

9.2.6.1.1 Female

Female Stroma

a. Select whether Previtellogenic follicles are 'non-expanded', 'expanded' or 'vesicular' from the dropdown menu.
b. Enter diameter in millimetres (mm) and select colour of developing follicles from dropdown menu.
c. Enter diameter in millimetres (mm) and abundance of mature follicles. Select colour of mature follicles.
d. Enter diameter in millimetres (mm) of atretic follicles and select colour from dropdown menu.
e. Enter diameter in millimetres (mm)and appearance of corpora lutea and select colour from dropdown menu.
f. Enter diameter in millimetres (mm) of ovarian scars and select colour from dropdown menu. Select 'Yes' or 'No' from the dropdown menu for the occurrence of white lines.

Female Oviduct

a. Enter diameter in millimetres (mm) opposite ovary.

b. Select shape from dropdown menu.
c. Select colour from dropdown menu.

Female ovary

a. Select colour of ovary form the dropdown menu.

Material sampled from female

b. Enter material sampled
c. Indicate whether photographs were taken
d. Enter number of photos

9.2.6.1.2 Male

Male Testis

a. Select shape of testis from dropdown menu
b. select colour of testis from dropdown menu.

Male Epididymus

a. Select shape of epididymus from dropdown menu
b. Select colour of epididymus from dropdown menu.
c. Select presence of white tubules within the epididymus.

Male paramesonephric duct

a. Select presence of paramesonephric duct from dropdown menu.
b. Enter diameter in millimeters (mm)
c. Indicate termination of paramesonephric duct.

Material sampled from male

a. Enter material sampled
b. Indicate whether photographs were taken
c. Enter number of photos

9.2.6.1.3 General

Insert number of canulae and select other instruments used. Enter any other technical problems encountered.

9.2.7 Fibropapilloma tumour

Fibropapilloma tumours in turtles are a form of herpes virus which causes wart-like growth on turtle.

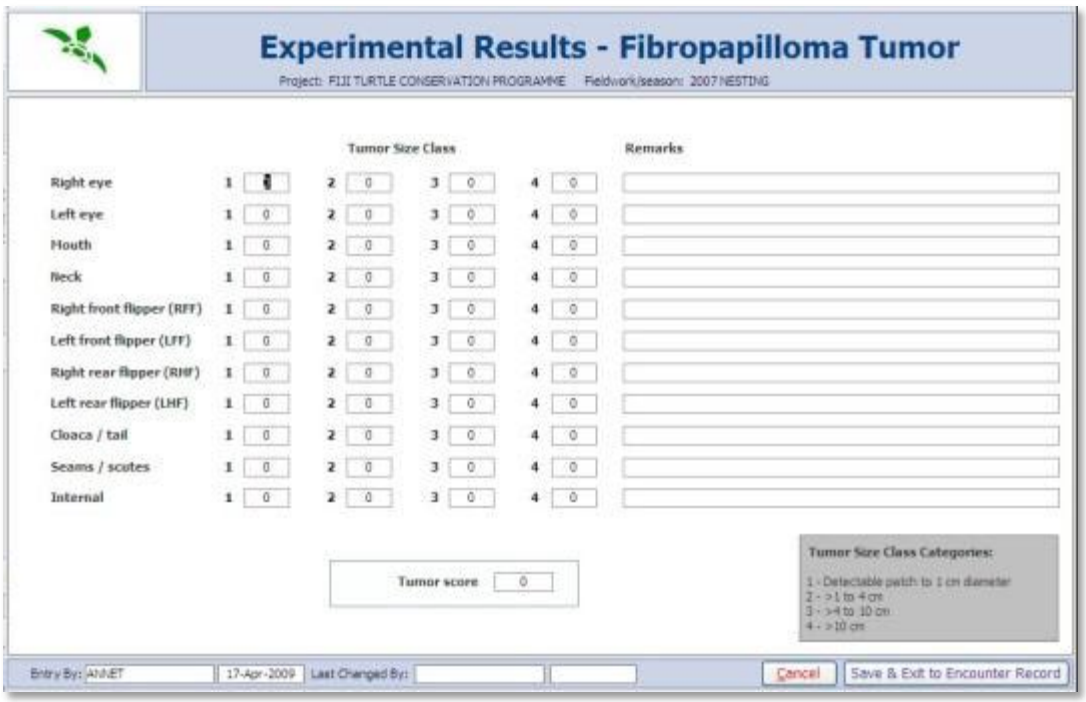


Figure 65: Experimental Result - Fibropapilloma Tumour

Enter tumour size classes based on the tumour size class categories shown in figure 65.

9.2.8 Genetics

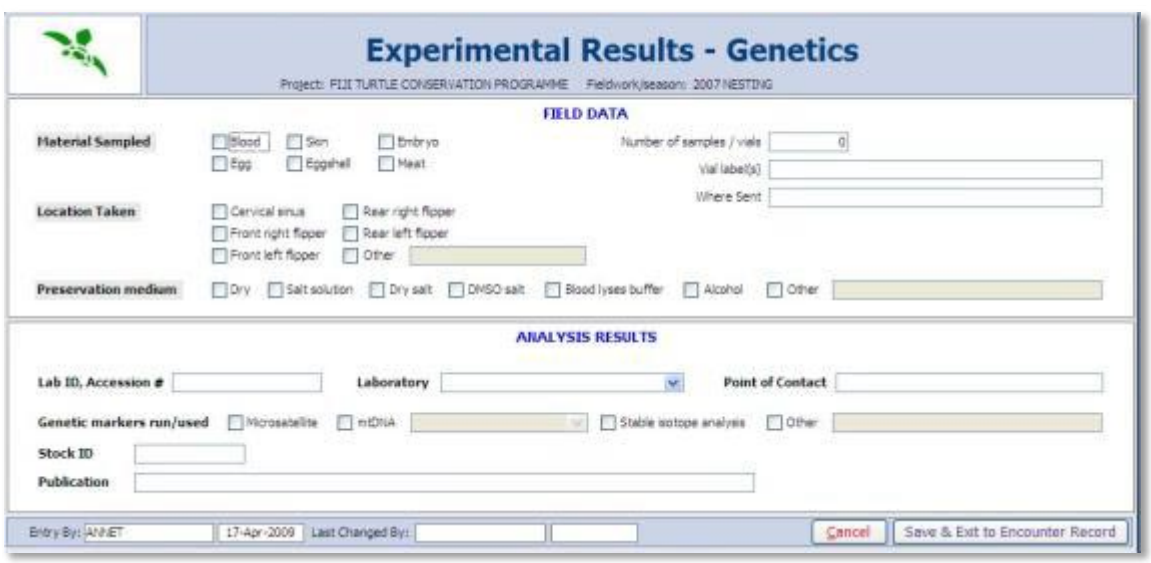


Figure 66: Experimental Results – Genetics

Field data

a. Select material being sampled.
b. Select the location on the turtle being sampled.
c. Select preservation medium used for storing your sample.
d. Enter the number of vials/sampled taken, vial labels and location/agency/researcher that samples will be sent to.

Analysis results

a. Enter Lab ID/accession number.
b. Enter laboratory name.
c. Enter point of contact at the laboratory.
d. Enter the genetics run/used.
e. Enter stock ID.
f. Enter publication name.

9.2.9 Satellite Tracking

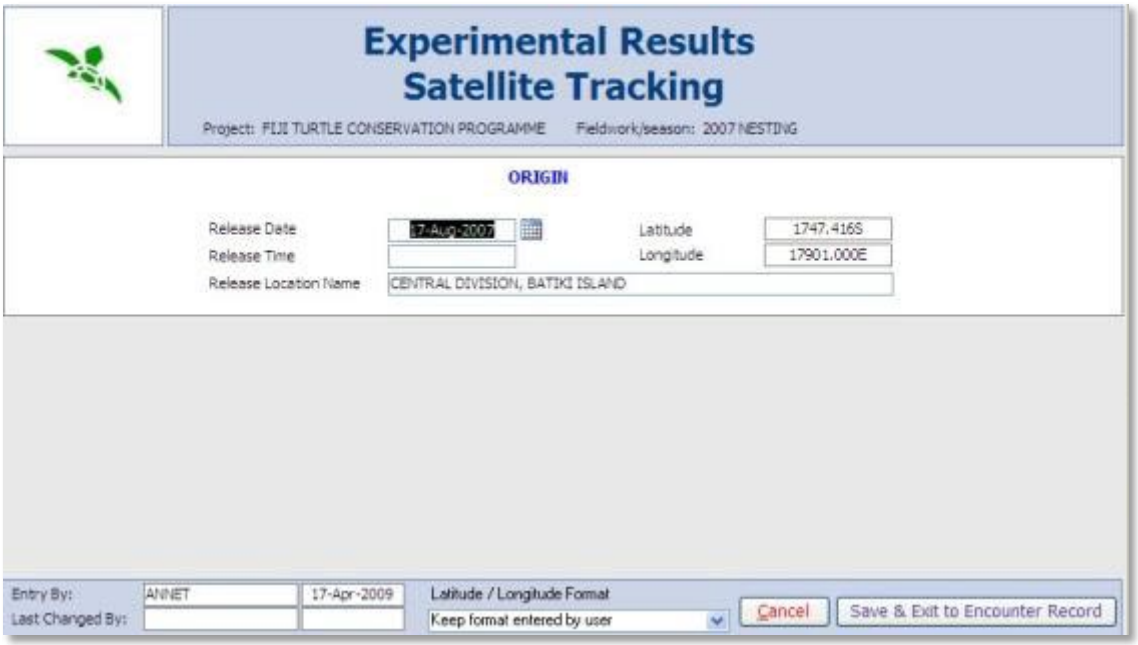


Figure 67: Experimental Results - Satellite Tracking

Enter date and time that the turtle was released as shown in figure 67. Location information is linked back to the main encounter screen and will be updated automatically.

9.3 Foraging Ground

Figure 68: Individual Turtle Detailed Foraging Groundwork Encounter

Data entry for the Foraging ground screen (figure 68) is the same as that for nesting except that the nest detail and additional nest/egg details sub-screens are not included. Please refer back to section 9.2 for data entry process.

9.4 Unique Encounters

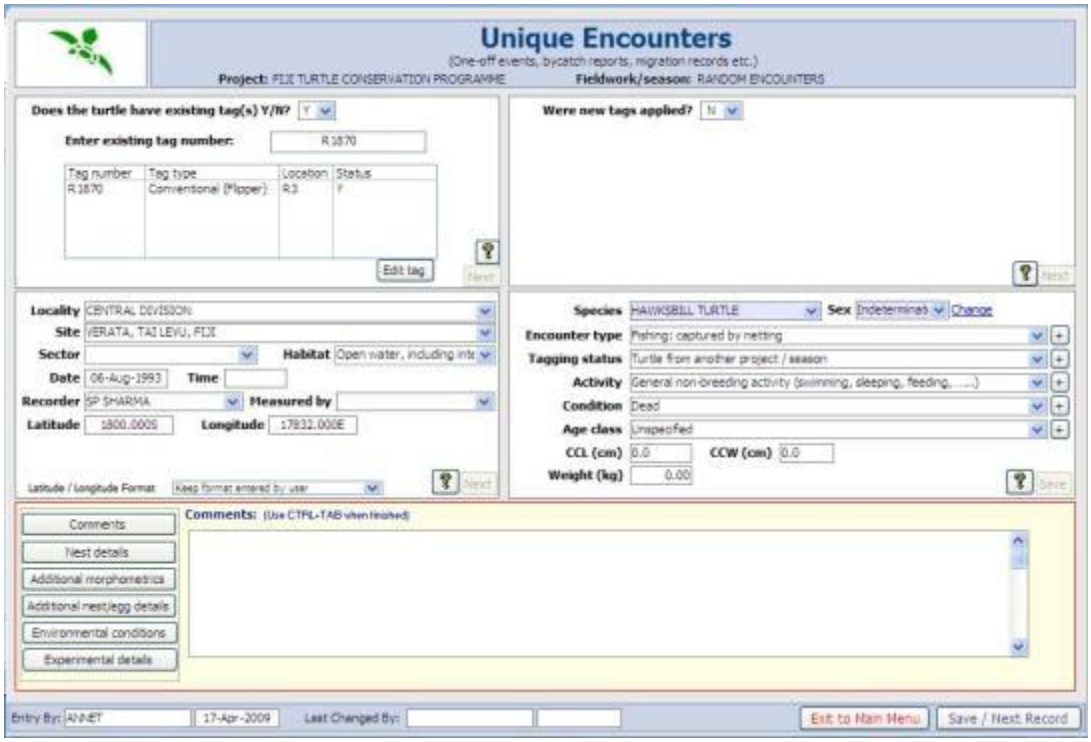


Figure 69: unique encounters data entry screen

Data entry for unique encounter as shown in figure 69 is used for one-off turtle encounters, bycatch and tag recoveries outside a planned foraging or nesting survey. Data entry process is same as that for foraging and nesting data, refer to section 9.2.

9.5 Hatchling Data

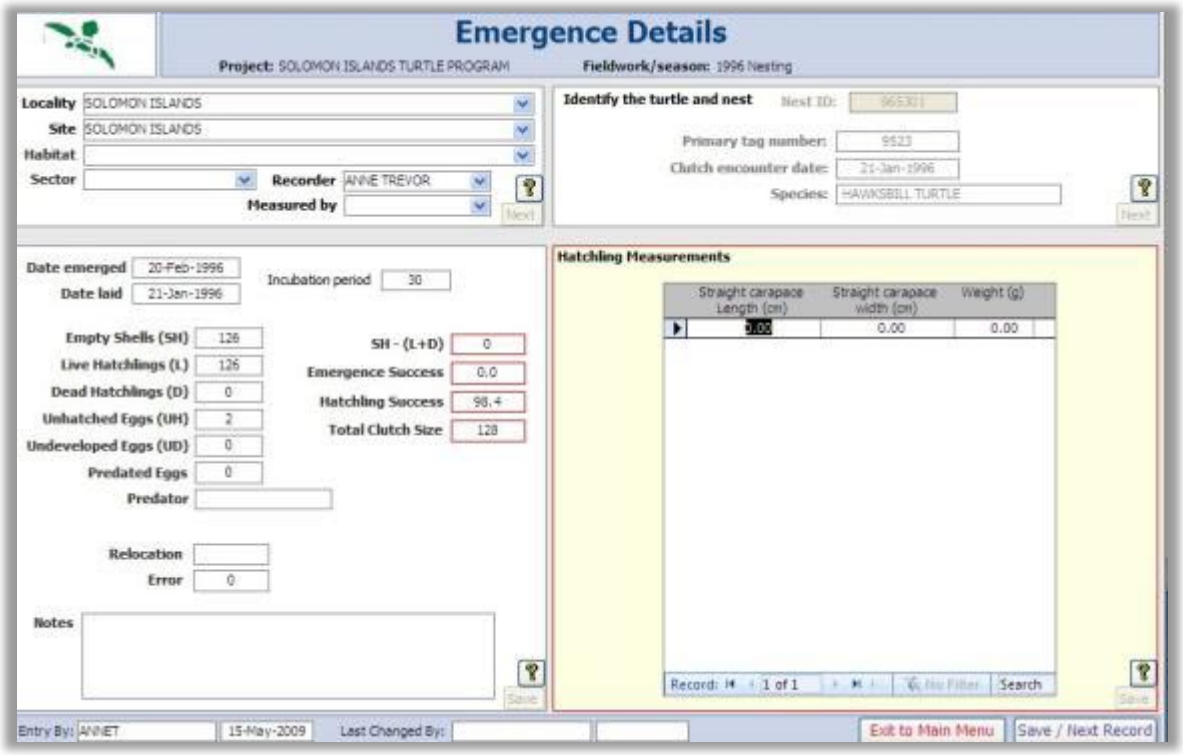


Figure 70: hatchling data entry screen

9.5.1 Stage 1 – location, habitat and surveyor information

a. Select locality from dropdown menu.
b. Select site from dropdown menu.
c. Select habitat from dropdown menu.
d. Select sector if recorded from dropdown menu.
e. Select personnel recording and measuring hatchling data.

If your localities and sites have not been set up, select 'exit to main menu' and go to 'reference tables' to enter your sites and localities before returning to the hatchling data entry screen (figure 61) to continue entering data.

9.5.2 Stage 2 – identify turtle and nest

Enter Nest ID in order for the TREDS system identify to link this record back to the turtle that laid the eggs earlier on in the season.

9.5.3 Stage 3 – emergence data

a. Enter date emerged. Date emerged refers to the date that hatchlings emerged from the nest to beach surface.
b. Enter number of empty shells (SH). The largest pieces of broken shell which can be reasonably be considered as one egg can be counted as egg shells.

c. Enter number live hatchlings (L). These are the number of live hatchlings in the sand or newly emerged from the nest.
d. Enter number of dead hatchlings (D). These are the number of dead hatchlings inside the sand having emerged from the nest.
e. Enter number of unhatched eggs (UH). These are the partially or nearly completely developed eggs from which no hatchlings have emerged.
f. Enter undeveloped eggs (UD). These are eggs in which embryonic growth cannot be detected with the naked eye.
g. Enter number of predated eggs (P). These are eggs that predated on by dogs, lizards pigs and insects.
h. Identify and enter the known Predator.
i. 'Incubation period' is calculated by the system as the difference between the days the eggs were laid and emergence.
j. 'Error' is automatically calculated by system as the difference between the known number of eggs (clutch count when turtle deposited eggs) and number of eggs counted during nest excavation.
k. 'Total clutch size' is automatically calculated by the system as the sum of (SH+UH+UD+P). This number is used to determine error when compared with a known clutch size at deposition.
l. 'Emergence success' is automatically calculated by the system as percentage of all eggs (SH+UH+UD+P) which resulted in emerged hatchlings (L+D)
m. 'Hatchling success' is automatically calculated by the system as a percentage of all hatchlings (L+D) which will survive to the surface (L).

9.5.4 Stage 4 – hatchling measurements

Enter straight carapace length (SCL) and straight carapace width (SCW) measurements of diameters in centimetres (cm) using calipers and weight in grams (g) of a subset of the clutch (usually 10 – 20 hatchlings per clutch).

10 Data editing

Figure 71: data edit menu screen

When you select the 'data editing' button in the main menu screen (refer to figure 18), the data edit menu will open (figure 62) and you will be able to;

- Edit 'nesting summary' (refer to section 10.1)
- View 'encounters by project' and edit individual encounter records (section 10.2)
- View 'encounters by tag' number and edit selected encounter records (section 10.3)
- View and edit 'hatchling data' (section 10.4).

10.1 Nesting: Summary

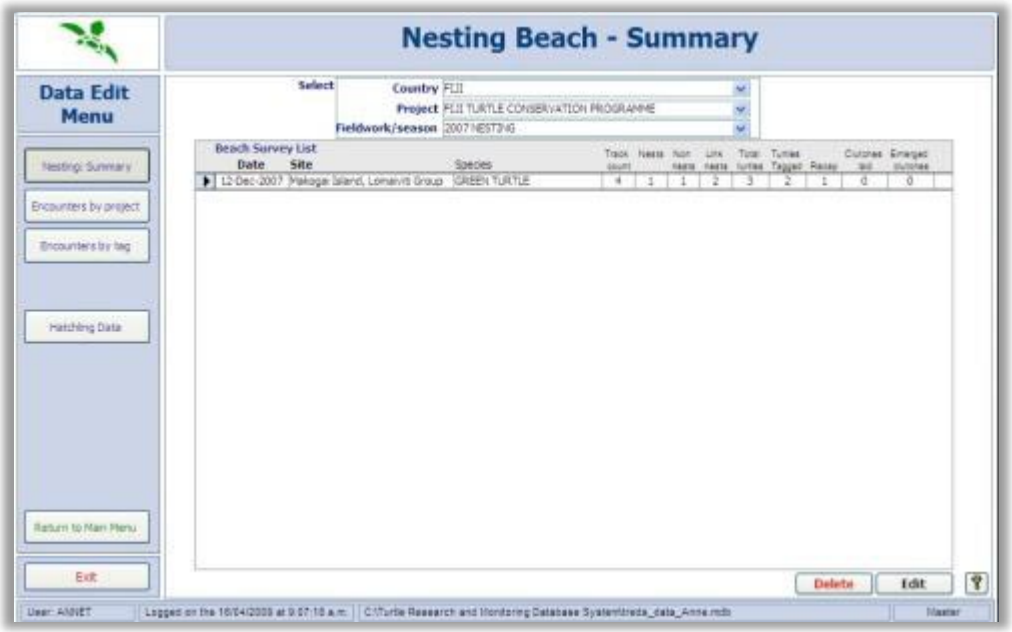


Figure 72: Nesting Beach Summary Data Edit Screen

- To view and edit a nesting summary, select 'Nesting summary' in the data edit menu;
- When the nesting: summary screen is opened as shown in figure 72;
- Select 'country', 'project' and 'fieldwork/season' for the dropdown menu at the top of the screen;
- To edit a record, select the record from the beach survey list as shown in figure 72 and select 'edit' button;
- To delete a record, select the record from the beach survey list as shown in figure 72 and select 'delete' button.

When you select the nesting summary in the data edit menu (figure 71) the nesting: summary screen (refer to figure 72) will open and allow you edit fields within this screen. Refer to 9.1 for more information on the Nesting: summary screen.

Note: any changes made to all these fields will permanently modify this record. Make sure you want to do this before proceeding.

10.2 Encounters by Project

Figure 73: encounters by Project data edit

10.2.1 Edit encounters by project

- To view and edit records through encounters by project screen, select 'country, project and fieldwork' from the dropdown menu at the top of the screen and click on the 'encounters by project' button (figure 71);

- To edit a record in this screen (figure 73), select a record and click on the 'edit' button on the bottom right corner. Refer to section 10.2.2;
- To delete a record in this screen, select a record and click the 'delete' button;
- Click 'Return to Main Menu' to return to the main menu screen.

Note: any changes made to all these fields will permanently modify this record. Make sure you want to do this before proceeding.

10.2.2 Edit encounter details

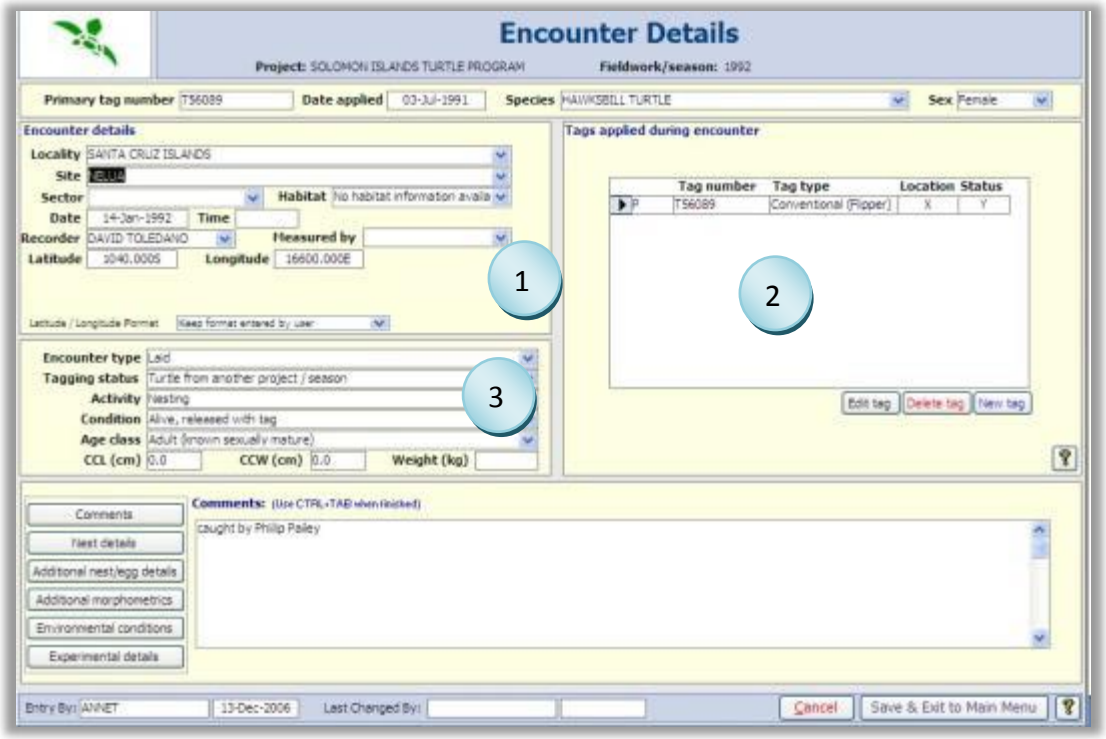


Figure 74: edit encounter details

10.2.2.1 Step 1 – location details

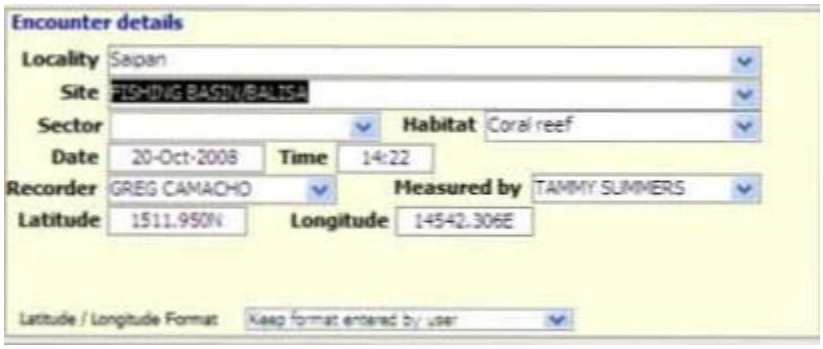


Figure 75: location information

Edit location, habitat, date, time and surveyor(s) details as shown in figure 75.

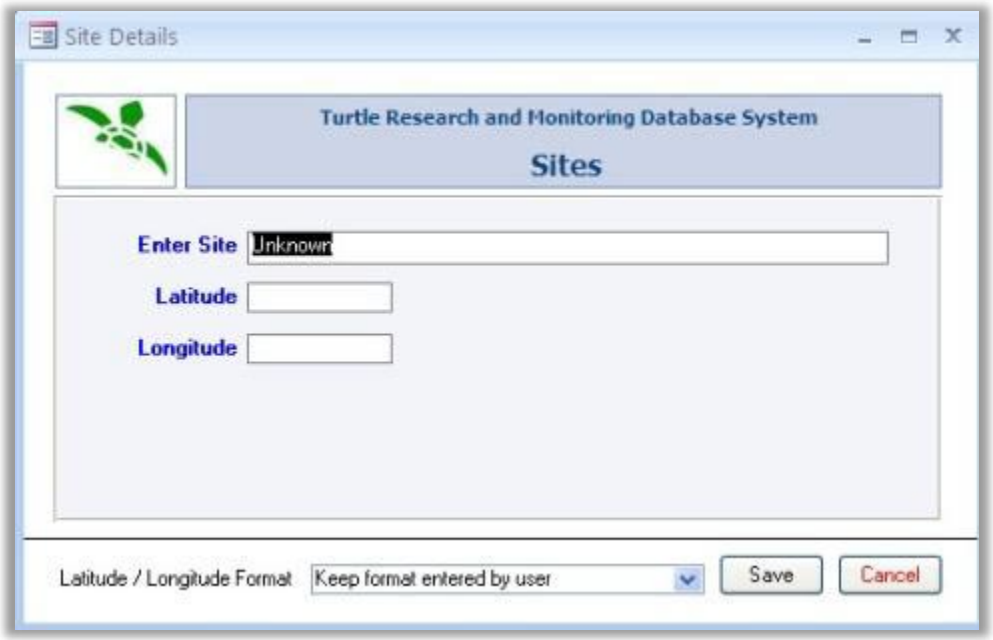


Figure 76: data entry site details

TREDS allows you to update the sites table through this screen (figure 76). If you have a new site that does not appear on the site dropdown menu as the system will prompt you. If you want to enter a new site and you click on 'yes and site details screen will open up as shown in figure 76.

10.2.2.2 Step 2 – tag applied component

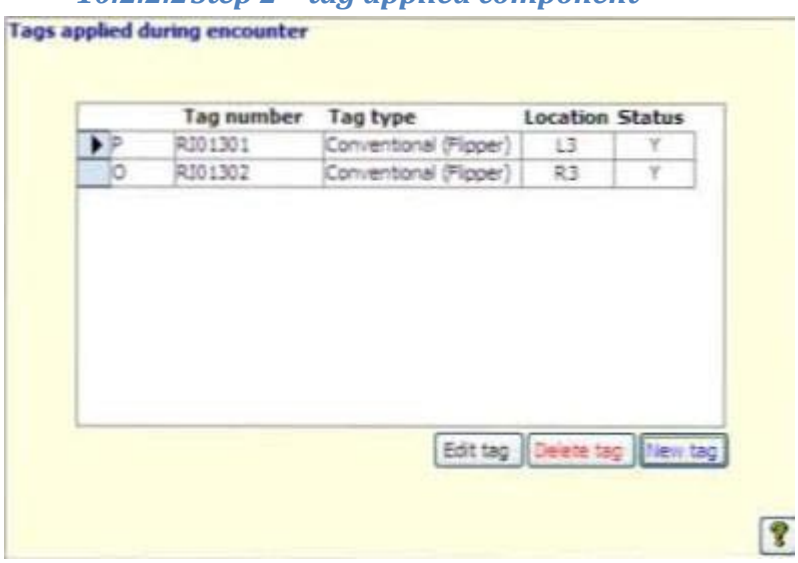


Figure 77: tags applied during encounter

This 'tags applied during an encounter' component (figure 77) allows you to carry out the following;

- Delete an existing tag by selecting the tag number and clicking the 'delete' button as shown in figure 77;

Figure 78: edit existing tag

- Select a tag and edit an existing tag as shown in figure 78. Click on 'save' to save the edited tag record or 'cancel' to encounter details screen without saving edits tag record.

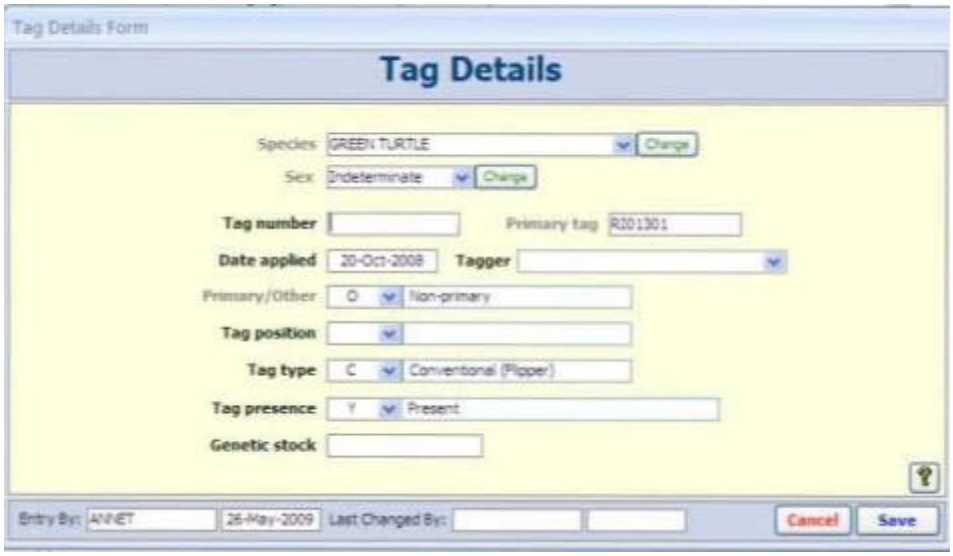


Figure 79: add new tag

- Or add a new tag number as shown in figure 79. Click on 'save' to save new tags record or 'Cancel' to encounter details screen without saving new tag record.

10.2.2.3 Step 3 – turtle encounter details

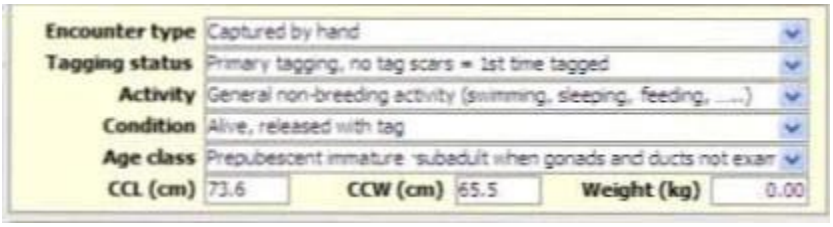


Figure 80: edit turtle encounter details

Select and edit 'encounter type', 'tagging status', 'activity', 'condition' and 'age class' using dropdown menus as shown in figure 80. Edit 'CCL', 'CCW' and Weight by selecting each field and changing numbers within the field.

10.3 Encounters by tag

The 'encounters by tag' screen (figure 81) allows you to view or edit a turtle encounter record if the tag number is known. The data editing process is the same as that for 'encounters by project'; please refer back to sub-section 10.2.2.

Figure 81: encounter by tag data edit screen

10.4 Hatchling and Emergence Data

The hatchling and emergence data screen (figure 82) allows you to view and edit hatchling and emergence data. Depending on the records you may want to view you can choose to apply a filter to find records by date, tag numbers, species of untagged turtles or nest ID. Refer back to section 9.5 for a more detailed explanation of the hatchling and emergence data screen.

Figure 82: Hatchling data edit screen

11 Reporting

In the reporting screen (figure 83) you can carry out the following;

- Select a report and select the parameters needed for that report and select the 'run report' button to generate the selected report. For each report you be required to select one or more parameters. Once a report is displayed you can choose to print the report or export it to another application such as MS Excel or MS word.
- Select and print out codes tables for localities/sites, habitat, capture method, condition, and tag status.

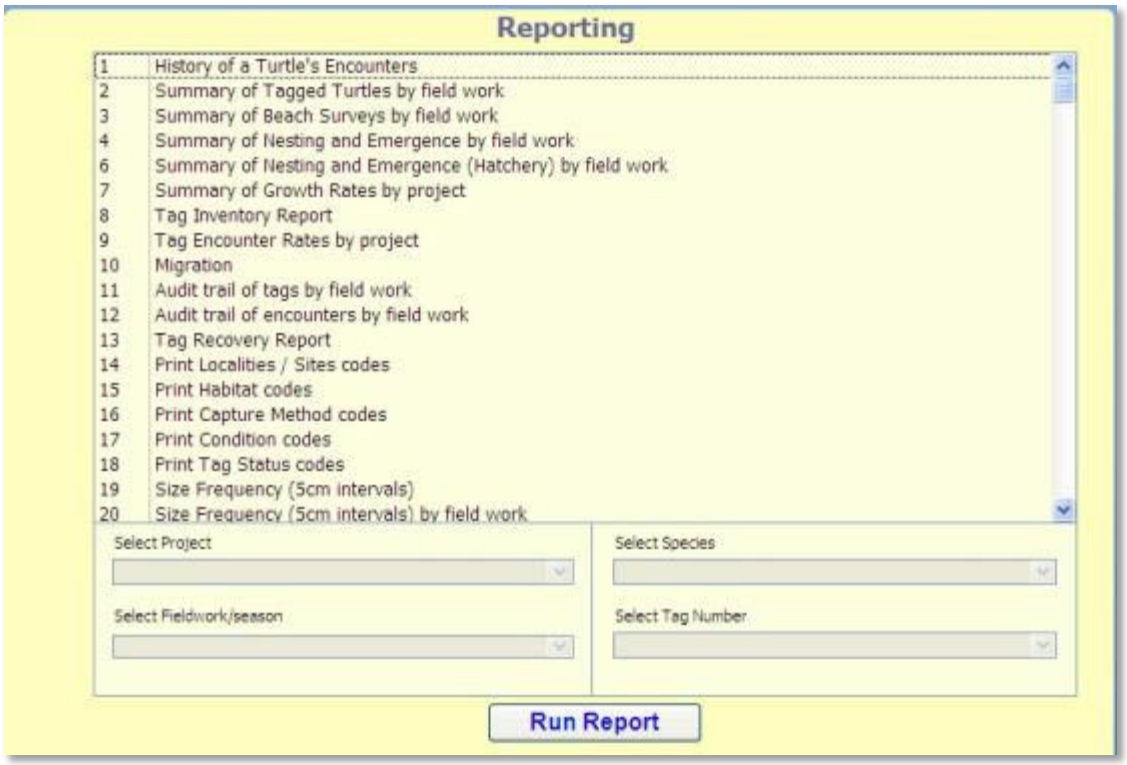


Figure 83: Reporting Screen

11.1 Report Names

- History of a Turtle's Encounters
- Summary of Tagged Turtles by field work
- Summary of Beach Surveys by field work
- Summary of Nesting and Emergence by field work
- Summary of Emergence Success by field work
- Summary of Nesting and Emergence (Hatchery) by field work
- Summary of Growth Rates by project
- Tag Inventory Report
- Tag Encounter Rates by project

- Migration
- Audit trail of tags by field work
- Audit trail of encounters by field work
- Tag Recovery Report
- Print Localities / Sites codes
- Print Habitat codes
- Print Capture Method codes
- Print Condition codes
- Print Tag Status codes
- Size Frequency (5cm intervals)
- Size Frequency (5cm intervals) by field work
- Beach Survey Report
- Tag Usage Report by tag range
- Audit Trail of Nesting Encounters by field work
- Satellite Tracking By Primary Tag
- Turtles Tagged by Location and Period
- List of Turtles Tagged by Period
- Nesting Turtles by Location and Period

12 Query/Export

12.1 Data Query/Export Module

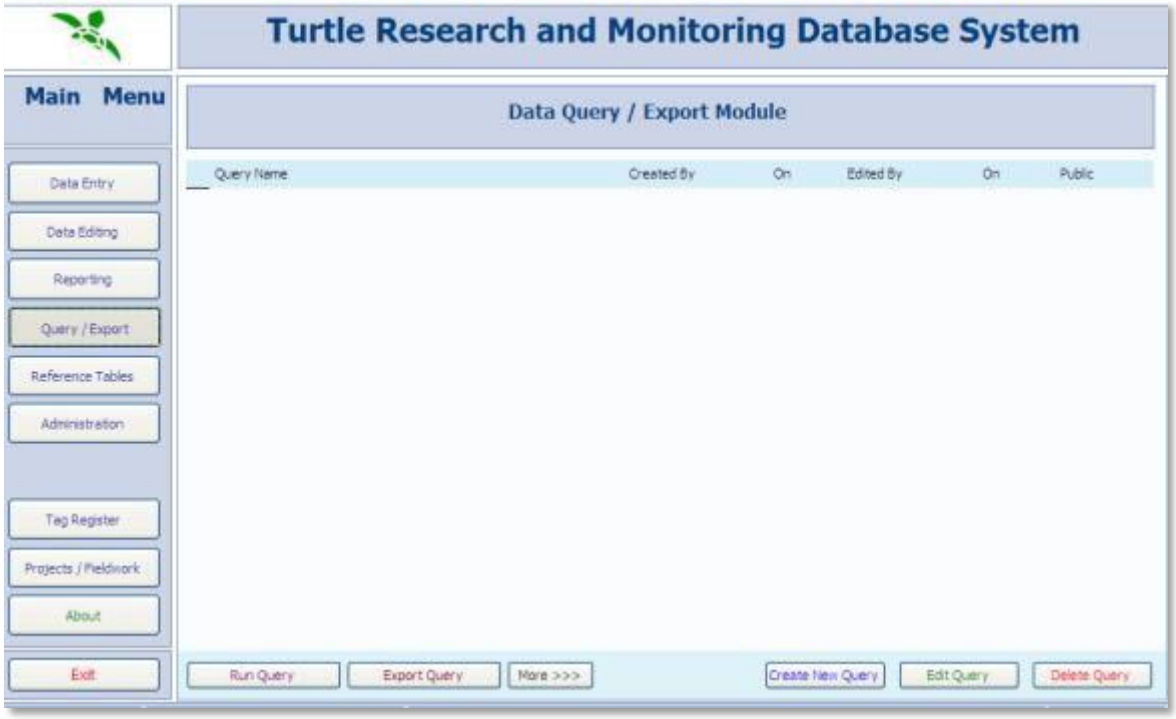


Figure 84: Data Query/Export Module Screen

In the Data Query/Export module screen as shown in figure 84 you will be able to carry out the following;

- Select 'create new query' button to create a new query;
- Select 'edit query' button to edit an existing query;
- Select 'delete query' button to delete an existing query;
- Select 'run query' button to run an existing query;
- Select 'export query' button to export an existing query;
- Select the 'create new query' button.

12.2 Data Query Builder

When you select 'create new query' in Data Query/Export module screen the Data Query Builder screen will open up. The Data Query Builder screen (figure 85) allows you to build and execute queries on the data held in TREDS.

Figure 85: Query Builder Screen

The query builder screen you can build a query by;

- Selecting the tables in TREDS that you would like your query to be based on;
- Enter the name of your query;
- Select filter conditions that you would like to apply;
- And select the fields you would like to include in your query.

Click ‘ok’ to save your query or ‘cancel’ to cancel and return to the Data Query/Export module screen.

13 Reference Tables (Main lookup tables)

13.1 Capture method table

Capture Method category		
	Capture Method code	**Capture Method description**
	HS	Turtles from headstarting program
	DF	Netted using a dipnet from fishing boat
	HC	Captured by hand
	U	Beach encounter: Unknown if laid
Nesting success		
	<	Laid/disturbed
	D	Dug into an existing clutch ·
	E	No lay
	?	undetermined nesting success
	X	Laid
Non-nesting - Fisheries		
	FS	Fishing: speared, or captured by a diver attaching a line to the animal.
	FL	Fishing: hooked by fishing line; included SCP shark-hooks
	FT	Fishing: trawling
	FP	Tangled in float-line to crab-pot, anchor line, trace to shark-hook, etc
	FX	Shot at sea
	FN	Fishing: captured by netting
Non-nesting - Released		
	KT	From Kelly Tarltons, P.O.Box 42-012, Orakei, Auckland, New Zealand
	SW	From SEAWORLD rehabilitation
	CL	Released by QPWS staff following handing over of turtles by CORAL LIFE MARINELAND, Kinka Beach, Yeppoon.
	UW	From UNDERWATER WORLD rehabilitation
Non-nesting - Research		
	RJ	Rodeo: day time
	TS	Located by satellite telemetry
	BW	Beach washed
	FG	Captured with gaff from boat
	NJ	Rodeo: night time
	PA	Observation from aerial survey
	P	Observed but not captured (e.g. turtle identified from capacial painting or from plastic tag.)
Non-nesting - Research		
	S	SCUBA/snorkelling: day time
	NS	SCUBA/snorkelling: night time
	FD	Sucked/picked up by dredge
Non-nesting - Trapped		
	TA	Trapped by land reclamation ·

	TE	Trapped in electricity power plant water intake system
	T	tangled in buoy-line (CEASE USING THIS CODE, 30 June 1995)
	TT	Trapped in creek at low tide
Unspecified		
	??	Unspecified

13.2 Activity table

Activity ID	Activity	Advanced
??	Unspecified (Commenced use 1 July 1995)	Yes
BF	Floating (dead, sick, unable to dive, drifting)	No
BR	Carcass or butchered remains found removed from coast (commenced use 1 Dec 1999)	No
BW	Beach washed (dead, sick)	No
C	Courting	Yes
E	Emerged clutch (for hatchling specimens)	No
F	Feeding	Yes
IN	In Captivity	Yes
M	Migrating	Yes
MB	Breeding migration from foraging area to breeding area. For use in telemetry studies.	No
MP	Post-breeding migration from breeding area to foraging area. For use in telemetry studies.	No
N	Nesting	Yes
P	Depredated (killed). Implies record of carcass or stomach content.	No
PC	Depredated by crocodile (killed)	No
PF	Depredated by fish (killed). Coding commenced 1 March 2002.	No
PR	Depredated by raptor (killed)	No
PS	Depredated by shark (killed). Coding commenced 29 March 2000.	No
R	Released. Specify origin of turtle under "capture method" code,	No
RS	Resting	Yes
S	General non-breeding activity (swimming, sleeping, feeding, ...)	Yes
SA	Pre-migratory phase of life cycle for an adult in its foraging area. Restricted to the vitellogenic period or spermatogenic cycle preceding a breeding	No
SO	Post-release orientation from lease back to the feeding area. For use in telemetry studies.	No
SP	Post-migratory phase of life cycle for an adult in its foraging area. Restricted to the year following breeding. For use in telemetry studies.	No
T	Trapped in Net	Yes
Z	Tag found not attached to animal.	No

13.3 Condition Table

13.3.1 Condition group

Condition group ID	Condition group description
BRD	Breeding condition
BSK	Basking (Healthy)
CRD	Courtship inferred from Damage
CRT	Courtship
DED	Dead or Dying
FSH	Fisheries
GEN	General
HMN	Human-inflicted injuries
RCP	Recapture from Hatchling tagging exp.
RMV	Removed
WND	Wounded from animal bites

13.3.2 Condition description

Condition id	Condition Group	Condition Description
A	HMN	Undefined
AB	HMN	blow to head with resulting fracture
AL	GEN	Alive
AS	HMN	shot; bullet hole
B-	BRD	Adult not breeding for the year (male: not in spermatogenesis. female: not in vitellogenesis.)
BA	BRD	ovary in atresia
BB	BSK	beach basking or stranded by outgoing tide on intertidal shore
BE	BRD	Testes in spermatogenesis; expanded epididymis with a distinct white coil.
BF	BSK	basking at surface - floating
BN	BRD	nuptual pad very pink and well developed on plastron of male.
BR	BSK	reef top basking at low tide
BV	BRD	Ovary in vitellogenesis preparing for a breeding season.
BX	BRD	Adult with a past breeding history (older than A1) and which was not suffering from trauma that commenced vitellogenesis for the year but terminated vitellogenesis before the breeding season and resorbed the follicles within the same year. (This cod
C>	CRD	extensive recent courtship damage wounds
CA	CRT	attendant to mounted pair
CC	CRT	preliminary courtship activity; not mounted
CD	CRD	recent courtship activity inferred from recent courtship damage wounds
CM	CRT	member of a mounted pair
CN	CRD	no evidence of courtship damage
CO	CRD	old courtship damage, inferred from old and healed scars
CQ	CRT	Atypical courtship activity (homosexual, carnal lust, interspecies courtship, bestiality,...)

CS	CRD	courtship damage plus recent shark attack injury
CX	CRT	Adult male incapable of copulation because of substantial injury to the tail.
D	DED	Dead
D1	DED	Live but subsequently died; unsuccessful rescue.
D2	DED	Dead, carcass in good condition. Fresh; suitable for pathology or resembling a carcass fresh enough for eating.
D3	DED	Dead, carcass fair. Decomposed but organs intact.
D4	DED	Dead, carcass poor advanced decomposition with internal organs falling apart.
D5	DED	Dead, mummified carcass with skin holding bones together.
D6	DED	Dead, disarticulated bones with no soft tissue remaining.
DC	DED	Fell over cliff/sand dune onto its back
DE	DED	Killed for food with traditional hunting
DF	DED	KILLED FOR FOOD
DH	DED	Dead/dying from heat exhaustion/disoriented
DJ	DED	Problem resulted from a man-made structure (jetty, etc)
DK	DED	Killed for research
DL	DED	Moribund; alive and left to natural processes. Not rescued.
DR	DED	Drowned/suffocated and subsequently resuscitated
DS	DED	Flipped on back in surf
DT	DED	Wedged between rocks or trees
DZ	DED	Rescued turtle - would have died but for our intervention
EN	GEN	Environmental pollution on turtle - net.
EO	GEN	Environmental pollution on turtle - oil fouled.
F	RMV	Removed to farm
FH	GEN	Harpoon damage or harpoon head embedded.
H	RCP	marked as a hatchling
H?	RCP	possibly marked as a hatchling
K	GEN	Killed after capture NOT used after 1/9/95.
L	GEN	Daylight nesting.
M	GEN	Migration: first capture at the opposite end of a breeding migration.
M2	GEN	Migration: multiple legs of migration demonstrating fidelity to feeding area and rookery.
MB	GEN	Biological indicator of nesting migration (barnacles,...)
MD	GEN	Damage indicator of post?breeding migration
MI	GEN	Iron oxide staining on head and anterior to lateral carapace, indicating possible hibernation. Ceased using this code 01 Aug 1996.
MM	GEN	Thick mud on carapace ? indicating possible estuarine feeding ground
MR	GEN	Migration: two consecutive legs of migration between nesting-feeding-nesting or feeding-nesting-feeding.
N	GEN	New recruit to feeding ground
NR	FSH	Not recorded ? i.e. if released dead/alive or with/without tags
P	GEN	Poor condition
P+	GEN	Very poor condition

PB	GEN	Chronic tissue reaction to burrowing barnacles
PC	GEN	Congenital deformity of flippers
PD	GEN	Fresh propeller damage or other boat inflicted injuries
PF	GEN	Floating syndrome - sick turtle, unable to dive.
PG	GEN	Growths on the skin or on the carapace.
PK	GEN	Curvature of the spine
PL	GEN	Growths/lumps that are not fibropapillopmas. This code commenced use in April 1995.
PP	GEN	Parasite cysts abundant on intestine (seen during laparoscopy)
PT	GEN	Severe bite from another turtle. This code commenced use in December 1998.Ceased use of code in August 2000, transferred to Terac='WT'
R	RMV	Removed for research away from study site
RA	GEN	Alive, released with tag
RD	FSH	Discarded dead/killed
RT	GEN	Alive, released without tags
S	GEN	Shark attack (recent: raw flesh not healed)? Non courtship. Ceased use of code in August 2000, transferred to Terac='WS'
T	GEN	Tangled in buoy? Line. This code commenced use on 30 June 1995.
TD	GEN	Damage, especially fractures, from trawling or boating activities other than propeller cuts.
TF	GEN	Tangled in fishing line or ingested fishing line.
TH	GEN	Hooking scar from large fish hook.
TR	GEN	Rope attached (? from trawl capture) or line that has been intentionally tied to the turtle.
TX	GEN	Severe tissue damage from past entanglement that has resulted in reduced mobility of limb.
UN	GEN	Unknown
WC	WND	From crocodile bites.
WD	WND	From dingo or dog bites.
WS	WND	From shark bites (recent: raw, flesh or scars not healed)? Non courtship. This code transferred from Terac='S', August 2000.
WT	WND	From another turtle, not including courtship injuries.
Z	RMV	Removed to zoo/aquarium

13.4 Species Range data

Species ID	Untagged turtle tag number	Tag number	Species name	Species Scientific name	Min CCL	Max CCL	Head width
KEZ	U3	BLACK	BLACK TURTLE (EAST PACIFIC GREEN TURTLE)	Chelonia mydas agassizii	1	150	1
LEO	U5	OLIVE RIDLEY	OLIVE RIDLEY TURTLE	Lepidochelys olivacea	1	150	1
LTB	U6	LEATHERBACK	LEATHERBACK	Dermochelys	1	300	1

			TURTLE	coriacea			
NAD	U1	FLATBACK	FLATBACK TURTLE	Natator depressus	1	150	1
TTH	U4	HAWKSBILL	HAWKSBILL TURTLE	Eretmochelys imbricata	1	150	1
TTL	U0	LOGGERHEAD	LOGGERHEAD TURTLE	Caretta caretta	1	150	1
TTX	U7	UNIDENTIFIED	MARINE TURTLE (UNIDENTIFIED)	Testudinata	1	150	1
TUG	U2	GREEN	GREEN TURTLE	Chelonia mydas	1	150	1

13.5 Taggers

tagger	Country code
UNKNOWN	AS
AILAO TUALAULELEI	AS
KATE SAILI	AS
RUTH UTZURRUM	AS
PETER CRAIG	AS
PETER EVES	AS
KISO SOOTO	AS
EDWIN SEUI	AS
SIAIFOI FAAUMU	AS
JOSHUA SEAMON	AS
SAIA LAVATA'I	AS
APELU SO'OAEMALELAGI	AS
IAN BELL	AU
COLIN LIMPUS	AU
UNKNOWN	AU
UNKNOWN	CK
Aisake Batibasaga	FJ
Esaroma Ledua	FJ
M. Boyle/P. Carrington	FJ
Alfereti Qauqau	FJ
Penina Solomona	FJ
Monifa Fiu	FJ
NEEMA NAND	FJ
AISAKE BATIBASAGA	FJ
MONIFA FIU	FJ
PENINA SOLOMONA	FJ
ESAROMA LEDUA	FJ
ALFERETI QAUQAU	FJ
UNKNOWN	FJ
SANIVALAIT NAVUKU	FJ
AKISI BOLABOLA (WWF)	FJ
MARGARET FOX (TREASURE ISLAND)	FJ

tagger	Country code
ANARE	FJ
Alvin/Vinny	FM
Alvin/Willy	FM
Andrew	FM
Andy/Vinny	FM
Andy/Willy	FM
AS/SK	FM
John/Gap/Vinny	FM
SG	FM
SK	FM
SK/VH	FM
Titus/Vinny	FM
PAULINO JAMES	FM
STEPHAN CARLOS	FM
BENSON FREDRICK	FM
STEVE PETER	FM
STEVEN RETALMAI	FM
STEVEN KOLINSKI	FM
UNKNOWN	FM
WILLIAM WEILBACHER	FM
JENNIFER CRUCE	FM
UNKNOWN	FM
UNKNOWN	GU
SHAWN WUSSTIG	GU
JAMIE BASS	GU
JAY GUTIERREZ	GU
JAMES BORJA	GU
B. TIBBATTS	GU
LEE GOLDMAN	GU
R. FRANQUEZ	GU
T. FLORES	GU
STAN DUPREE	GU
David Itano	IW

tagger	Country code
KEVIN BAILEY	IW
LUI BELL	IW
UNKNOWN	JP
RATITA BEBE	KI
NENENTEITI TEARIKI-RUATU	KI
MAATA PINE	KI
ABERAAM TEBITAKI	KI
KATARETI TAABU	KI
ATAIETA IOANE	KI
LAMP	MH
UNKNOWN	MH
EMMA KABUA	MH
JOE RUAK	MP
GREG CAMACHO	MP
CHRIS ALEPUYO	MP
JESSE HAPDEI	MP
TAMMY SUMMERS	MP
A. Claire/Christian/Raphael	NC
A. Claire/Cyrille	NC
Aida/Fabrice/Cyrille	NC
Aida/Pascale/Serge/Raphael	NC
Aida/Pierre/Claude/Raphael	NC
Aida/Serge/Claude	NC
Claude/Jean Paul	NC
Cyrille/Ellen	NC
Cyrille/Elsa	NC
Cyrille/Jean Paul/Fabrice	NC
Ellen/Raphael/Olivier	NC
Elsa/Cyrille/Christian	NC
Elsa/Ellen/Olivier/Serge	NC
Elsa/Olivier/Serge	NC
Elsa/Serge	NC
Fabrice/Claude	NC
Fabrice/Pascale/Raphael	NC

tagger	Country code
Gael/Cyrille	NC
Jean Paul/Raphael	NC
Justine/Cyrille	NC
Justine/Gael	NC
Justine/Philippe B.	NC
Justine/Yanne/Cyrille	NC
Nathalie/Cyrille	NC
Nathalie/Phillippe B.	NC
Nathalie/Yann	NC
Olivier/A. Claire	NC
Pascale/Claude/Raphael	NC
Pascale/Fabrice/Raphael	NC
Pascale/Raphael	NC
PB/PM/Pierre	NC
Philippe B./Cyrille	NC
Pierre/Aida/Cyrille	NC
PM/PB/Pierre	NC
Raphael/A.Claire/Cyrille	NC
Sandrine/Christian	NC
Sandrine/Pierre/Philippe	NC
Sandrine/Yann	NC
Sandrine/Yohan	NC
Sandrine/Yohan/Christian	NC
Sandrine/Yohan/Gael	NC
Serge R/Cyrille	NC
Serge S/J-Paul	NC
Serge S/Yoan	NC
Serge S/Yoan/Serge R	NC
Serge/A.Claire	NC
Serge/Ellen/Catherine/Philippe	NC
Serge/J-Paul	NC
Serge/Yoan	NC
Yann/Christian	NC
Yoan/Cyrille	NC

tagger	Country code
Yoan/Serge	NC
Yoan/Serge/Raphael	NC
Yohan	NC
Yohan/Christian	NC
Yohan/Gael	NC
Yohan/Justine/Nathalie	NC
Yohan/Sandrine/Yanne	NC
UNKNOWN	NC
Alphem	PF
Andre	PF
Autier	PF
Benfarem	PF
Bertolli	PF
BGFCF	PF
Bryan	PF
Carlos	PF
Cordelia	PF
corget	PF
Cowan	PF
Dommi	PF
Dórnano	PF
Druault	PF
Elena	PF
Ferries	PF
Florin	PF
Furhlammer	PF
Gelin	PF
Gerbeau	PF
Gillioz	PF
Glass	PF
Guigo	PF
Guiterez	PF
Habastida	PF
Herfray	PF

tagger	Country code
J. Siu	PF
Kirkton	PF
Knoth	PF
Kranke	PF
Le Camarec	PF
Leterme	PF
Maria	PF
Martin	PF
Maryon	PF
Maslain	PF
Mauri	PF
Molosco	PF
Noeline	PF
Philippe	PF
Phillipe Siu/JP Landre/George Balazs	PF
Picoreau	PF
Rebouh	PF
Roihan	PF
Saladin	PF
Sandro	PF
Sassi	PF
Spea	PF
Taputuarai	PF
Thomas	PF
Timkaus	PF
Ulli	PF
Weil	PF
Weiler	PF
Welsch	PF
Wolf	PF
Zenouda	PF
Miri Tatarata	PF
Sebastien Goutenegre	PF

tagger	Country code
UNKNOWN	PF
JEAN-PIERRE LANDRET	PF
AKAI/ANDREW	PG
AKAI/KEN	PG
AKAI/NEWA	PG
ANDREW	PG
ANDREW/ARON	PG
ANDREW/BRUCE KAWA	PG
ANDREW/GIBO	PG
ANDREW/GIBO DEI	PG
ANDREW/JAMES	PG
ANDREW/KEPUO STEVEN	PG
ANDREW/KONA MASI	PG
ANDREW/MOKX	PG
ANDREW/SIMON NARU	PG
ANDREW/YATU SIMON	PG
ARON/JANE	PG
ELISHA KEP/PAUL WAING	PG
John Aini	PG
LEVI AMBIO/MARK SIMON	PG
RICHARD JACK	PG
SAKING T/ABSALOM T	PG
TANA ANIO/IAN LEO	PG
TANA ANIO/LUCAS DAVID	PG
TANA/DEI PUNASE	PG
TANA/GOLA	PG
TANA/TAKWA	PG
TANA/WIYOM	PG
TANA/YANA	PG
UNKNOWN	PG
LEVI AMBIO	PG
NOEL WANGUNU	PG
VAGI REI	PG
Ismael/Bernado	PW

tagger	Country code
Ismael/David	PW
Suzie	PW
DERRICK	PW
UNKNOWN	PW
ALMA	PW
JAY ANDREW	PW
ANDRES ANTONIO	PW
UNKNOWN	PW
JAMOS	PW
JOSHUA EBERDONG JOSHUA EBERDONG	PW
PAUL HOMAR	PW
JULIE BARR	PW
WILLIAM ANDREW	PW
JAMOS	PW
PETER	PW
PEACE KEMESONG	PW
ERWIN ERWIN	PW
SSMCP	PW
PRINCE ANTONIO	PW
Allan	SB
Anita	SB
Anita/John Pita	SB
Billy Qaqa	SB
Dave Argument	SB
Hobete	SB
Ian	SB
Ian/Michael	SB
John Pita	SB
Kodo	SB
M. Tepa	SB
Michael/Jan	SB
Micheal/Ian	SB
Peter Ramohia	SB

tagger	Country code
Tanya	SB
TIA MASOLO	SB
UNKNOWN	SB
MOSES	SB
KENNEDY	SB
TIMO	SB
JAMES	SB
MATTHEW	SB
HICKSON	SB
ALFRED SUKA	SB
GEORGE	SB
TONY	SB
ROMIS	SB
MAMU	SB
DAMIEN BRODERICK	SB
TEVITA AHOAFI	TO
MALAKAI FINAU	TO
SULIETI HAVEA	TO
ASIPELI PALAKI	TO
Alan Resture	TV
TATAUA MOEAVA	TV
SEMESE ALEFAIO	TV
UNKNOWN	TV
VILIAMU IESE	TV
TATAUA ALEFAIO	TV
MISI ALOTU	TV
ENATE EVI	TV
LIMASENE	TV
TOMU S.	TV
MESAKO	TV
ANNIE	TV
FALEFAEA	TV
STEVE	TV
GEORGE BALAZS	US

tagger	Country code
WILLIAM PULELOA	US
ALLAN NITHAKI	VU
AMANDA CAVANAGH	VU
BEN FRANK	VU
BERRY ARO	VU
BILL LEONARD	VU
CATHERINE HENSEN	VU
CHARLEY MANUA	VU
DAVID BILLY	VU
EMIL KOMAS	VU
GEORGE SANO	VU
J LAURENCE	VU
JOHN LAKET MALEU	VU
JOHN VANUA WIMBONG	VU
JOSEPH PELE	VU
KALEB MALAS	VU
KALMELU SISI	VU
KALNAURE KALO	VU
KALOAS WATT	VU
KANAS EMIL	VU
KAREN AND GRANT DEMPSEY	VU
KELEP DAVID	VU
KELEP MALAS	VU
LYNDA KENDAL	VU
MAPULA SAMSON	VU
MATHEW K DAVIS	VU
MPA STAFF	VU
NICHOLAS MICHAEL	VU
NIXON JOSEPH	VU
NOAH REDPIE	VU
PAUL LAURENCE	VU
RAUMBONG SERAO	VU
RONMILLER KAMSEL	VU
ROYAL THOMAS	VU

tagger	Country code
SANDRA STONE	VU
SOKNAUR ABEL	VU
TED MILLER	VU
THOMAS ALANTAMAT	VU
WILLIE FIRIAM	VU
Abel Ien	VU
albert douglas	VU
Alickson Loyalty	VU
Amantalon Manmol	VU
Donald James	VU
Dorekas roland	VU
Fansen	VU
James Arthur	VU
James John	VU
Jimmy Kaltakau	VU
Joe Gray	VU
Joseph Kaloran	VU
Kalnaura K.	VU
Kalo Pakoa	VU
Kalulu John	VU
Makalie	VU
Mark Maikel	VU
Mike Shem	VU
Renneth John	VU
Sebastian Tal	VU
Taura Tugoro	VU
TELE BILL	VU
Willie Tarip	VU
UNKNOWN	VU
Atis Kalo	VU
Basil Alick	VU
Alick Frank	VU
Colwin Miller	VU
Daniel Jack	VU

tagger	Country code
David Emilson Bene	VU
Henry Nial	VU
Harry Ian	VU
Harry Sandy	VU
Jackpi Isaiah	VU
Edmon Duduni	VU
James Roy Sepeth	VU
Jeana Goddard	VU
Jeffrey Christine	VU
Jesnal Masingnau	VU
Joe Jack	VU
John Frank	VU
Johnathan Sisai	VU
Kalmasei Levi	VU
Kalo Joseph	VU
John Joseph	VU
Joseph Sanel	VU
Bruce Syevie	VU
Billy Robert	VU
Kray William	VU
Kalo Job	VU
Lansing Willie	VU
Lieman Stephen	VU
Makali Bani	VU
Kami Hailef	VU
Alick Erick	VU
Allan Makie	VU
Benjamin Kora	VU
Jo Kray William	VU
Kaltafu Charlie	VU
Karie Makie	VU
Kelpi Roy	VU
Marcel Charlie	VU
Michel Song	VU

tagger	Country code
Nguna-Pele MPA Staff	VU
Obed Douglas	VU
Obed Jack	VU
Paul Loren	VU
Peter Harry	VU
Phillip Dick	VU
Pierre Fred Markomar	VU
Redpie Isaac	VU
Reginard Tari	VU
Robert Vagaha	VU
Robson Kalo	VU
Samansen Naika	VU
Simeon	VU
Stephen Lakeleo	VU
Tarip Henry	VU
Tarip John	VU
Tasava Matoa	VU
Taura Michael	VU
Turtle monitors	VU
Willie Graham	VU
Willie Isno	VU
WSB Research Team	VU
Yoan Issach	VU
JONAS KEN	VU
ANSEL FRED	VU
JOHN SKY	VU
JOSES TOGASE	VU
DANIEL NENET	VU
VANSEN STEPHEN	VU
MASING ATEL	VU
PAUL PYER	VU
PAUL KALSEN	VU
KALMET WILLIE	VU
KALOWAS WATT	VU

tagger	Country code
SAKNAUN ABEL	VU
ARMSTRONG SINKER	VU
PHILIP CHARLY	VU
Anne Trevor	IW
Autalavou Taua	WS
Cedric Schuster	WS
David Butler	WS
Henrietta Winterstein	WS
Juney Ward	WS
Malaki Iakopo	WS
Patelesio Taualofa	WS
MAELI ASOTASI	WS
UNKNOWN	WS
SUE MILLER	WS
TAVITA SASI	WS
ANAMA SOLOFA	WS
JOYCE SAMUELU	WS
PULEA IFOPO	WS
ISAMAELI ASOTASI	WS
MALAMA MOMOEMAUSU	WS
BONNIE PONWITH	AS
ALEX	SB
ADAM	SB
FREDIE	SB
KINKI	SB
MOSLEY	SB
HUGGUES BULETANSUH	VU
DOUGLAS FORSELL	HW
JOHNSON DONGA	SB
DONGA	SB
HANAKOLO	SB
MELOTY	SB
NICHOLSON	SB
MANOLD	SB

tagger	Country code
SUMTOH SERGE	VU
GERALD LUDWIG	AS
GRAHAM	SB
EUGENE KRIDLER	AS

tagger	Country code
ROY	SB
STEWART FEFER	HW
RUNI	SB
DARCY HU	HW

13.6 Country/Locality/Site

13.6.1 Countries table

Country code	Country	Country code	Country
??	UNKNOWN	BR	BRAZIL
AD	ANDORRA	BS	BAHAMAS
AG	ANTIGUA AND BARBUDA	BT	BHUTAN
AI	ANGUILLA	BV	BOUVET ISLAND
AL	ALBANIA	BW	BOTSWANA
AN	NETHERLANDS ANTILLES	BY	BELARUS
AO	ANGOLA	BZ	BELIZE
AQ	ANTARCTICA	CA	CANADA
AR	ARGENTINA	CC	COCOS (KEELING) ISLANDS
AS	AMERICAN SAMOA	CD	DEMOCRATIC REP. OF THE CONGO
AT	AUSTRIA	CF	CENTRAL AFRICAN REPUBLIC
AU	AUSTRALIA	CG	CONGO
AX	ALAND ISLANDS	CI	COTE D'IVOIRE
AZ	AZERBAIJAN	CK	COOK ISLANDS
BA	BOSNIA AND HERZEGOVINA	CL	CHILE
BB	BARBADOS	CN	CHINA
BD	BANGLADESH	CO	COLOMBIA
BE	BELGIUM	CR	COSTA RICA
BF	BURKINA FASO	CU	CUBA
BG	BULGARIA	CV	CAPE VERDE
BH	BAHRAIN	CX	CHRISTMAS ISLAND
BI	BURUNDI	CY	CYPRUS
BJ	BENIN	CZ	CZECH REPUBLIC
BM	BERMUDA	DE	GERMANY
BN	BRUNEI	DJ	DJIBOUTI
BO	BOLIVIA	DK	DENMARK

Country code	Country	Country code	Country
DM	DOMINICA	HR	CROATIA
DO	DOMINICAN REPUBLIC	HT	HAITI
DZ	ALGERIA	HU	HUNGARY
EC	ECUADOR	HW	HAWAII (UNITED STATES)
EE	ESTONIA	ID	INDONESIA
EG	EGYPT	IE	IRELAND
ER	ERITREA	IL	ISRAEL
ET	ETHIOPIA	IM	ISLE OF MAN
FI	FINLAND	IN	INDIA
FJ	FIJI	IO	BRITISH INDIAN OCEAN TERRITORY
FK	FALKLAND ISLANDS (MALVINAS)	IQ	IRAQ
FM	FEDERATED STATES OF MICRONESIA	IR	ISLAMIC REPUBLIC OF IRAN
		IS	ICELAND
FO	FAROE ISLANDS	IT	ITALY
FR	FRANCE	IW	INTERNATIONAL
GA	GABON	JE	JERSEY
GD	GRENADA	JM	JAMAICA
GE	GEORGIA	JO	JORDAN
GF	FRENCH GUIANA	JP	JAPAN
GG	GUERNSEY	KE	KENYA
GH	GHANA	KH	CAMBODIA
GI	GIBRATAR	KI	KIRIBATI
GL	GREENLAND	KM	COMOROS
GM	GAMBIA	KP	KOREA, DEMOCRATIC PEOPLE'S REP
GN	GUINEA		
GP	GUADELOUPE	KR	KOREA
GQ	EQUATORIAL GUINEA	KW	KUWAIT
GR	GREECE	KY	CAYMAN ISLANDS
GT	GUATEMALA	LA	LAO PEOPLE'S DEMOCRATIC REP.
GU	GUAM	LB	LEBANON
GW	GUINEA-BISSAU	LI	LIECHTENSTEIN
GY	GUYANA	LR	LIBERIA
HK	HONG KONG	LS	LESOTHO
HM	HEARD IS. AND MCDONALDS IS.	LT	LITHUANIA
HN	HONDURAS	LU	LUXEMBOURG

Country code	Country
LV	LATVIA
LY	LIBRIAN ARAB JAMAHIRIYA
MA	MOROCCO
MC	MONACO
MD	MOLDOVA, REPUBLIC OF
ME	MONTENEGRO
MG	MADAGASCAR
MH	MARSHALL ISLANDS
MK	MACEDONIA, FORMER YUGOSLAV REP
MM	MYANMAR
MN	MONGOLIA
MO	MACAO
MP	NORTHERN MARIANA ISLANDS
MQ	MARTINIQUE
MR	MAURITANIA
MS	MONTSERRAT
MT	MALTA
MU	MAURITIUS
MV	MALDIVES
MX	MEXICO
MY	MALAYSIA
MZ	MOZAMBIQUE
NA	NAMIBIA
NC	NEW CALEDONIA
NF	NORFOLK ISLAND
NL	NETHERLANDS
NP	NEPAL
NR	NAURU
NU	NIUE
NZ	NEW ZEALAND
PF	FRENCH POLYNESIA
PG	PAPUA NEW GUINEA
PH	PHILIPPINES
PN	PITCAIRN

Country code	Country
PW	PALAU
RU	RUSSIA
SB	SOLOMON ISLANDS
SG	SINGAPORE
SV	EL SALVADOR
TD	CHAD
TF	FRENCH SOUTHERN TERRITORIES
TH	THAILAND
TK	TOKELAU
TO	TONGA
TV	TUVALU
TW	TAIWAN
US	UNITED STATES OF AMERICA
VN	VIETNAM
VU	VANUATU
WF	WALLIS AND FUTUNA
WS	SAMOA
YT	MAYOTTE
NI	NICARAGUA
NG	NIGERIA
NO	NORWAY
OM	OMAN
PK	PAKISTAN
PS	PALESTINIAN TERRITORY, OCCUPIE
PA	PANAMA
PY	PARAGUAY
PE	PERU
PL	POLAND
PT	PORTUGAL
PR	PUERTO RICO
QA	QATAR
RE	REUNION
RO	ROMANIA
BL	SAINT BARTHELEMY
SH	SAINT HELENA

Country code	Country
KN	SAINT KITTS AND NEVIS
LC	SAINT LUCIA
MF	SAINT MARTIN
PM	SAINT PIERRE AND MIQUELON
VC	SAINT VINCENT & THE GRENADINES
SM	SAN MARINO
ST	SAO TOME & PRINCIPE
SA	SAUDI ARABIA
SN	SENEGAL
SC	SEYCHELLES
SL	SIERRA LEONE
SO	SOMALIA
ZA	SOUTH AFRICA
GS	SOUTH GEORGIA & SANDWICH IS.
ES	SPAIN
LK	SRI LANKA
SD	SUDAN
SR	SURINAME
SZ	SWAZILAND
SE	SWEDEN
SY	SYRIAN ARAB REPUBLIC
TZ	TANZANIA, UNITED REPUBLIC OF
TL	TIMOR-LESTE
TG	TOGO
TT	TRINIDAD & TOBAGO
TN	TUNISIA
TR	TURKEY
TM	TURKMENISTAN
TC	TURKS & CAICOS ISLANDS
UA	UKRAINE
AE	UNITED ARAB EMIRATES
GB	UNITED KINGDOM
UM	UNITED STATES MINOR OUTLYING ISLANDS

Country code	Country
UY	URUGUAY
VE	VENEZUELA, BOLIVIAN REP. OF
VG	VIRGIN ISLANDS, BRITISH
VI	VIRGIN ISLANDS, U.S.
EH	WESTERN SAHARA
YE	YEMEN

13.6.2 Localities table

Locality ID	Locality	Country ID
10101	Unknown	??
32101	American Samoa	AS
32102	TUTUILA	AS
32103	MANUA	AS
32104	ROSE ATOLL	AS
32105	OFU	AS
32106	AUNUU	AS
32301	Bushy Island to Lizard Island (Coral cays/reefs)	AU
32302	Bustard Head to Lizard Island (mainland coast and continental islands)	AU
32303	Capricorn ? Bunker Groups	AU
32304	Coral Sea region	AU
32305	Fraser Island to Bustard Head (including Bundaberg coast)	AU
32306	Gulf of Carpentaria	AU
32307	Indian Ocean Territory Reefs	AU
32308	Lizard Island to Cape York (mainland + continental islands + inner shelf cays)	AU
32309	Lizard Island to Ham and Derry Cays (outer Barrier)	AU
32310	New South Wales	AU
32311	Norfolk Island area - Tasman Sea	AU
32312	Northern Territory	AU
32313	Raine Island Region (outer Barrier Reef)	AU
32314	South Australia	AU
32315	South Queensland : south of Fraser Island	AU
32316	Swain Reefs	AU
32317	Tasmania	AU
32318	Torres Strait (Bramble Cay to Deliverance Island)	AU
32319	Victoria	AU
32320	Western Australia	AU
32321	Australia	AU
41601	Brunei	BN
51301	Cook Islands	CK
51302	RAROTONGA	CK
51303	AITUTAKI	CK
51304	MANGAIA	CK
81201	FIJI ISLANDS	FJ
81202	Yasawa Group	FJ
81203	Viti Levu	FJ

Locality ID	Locality	Country ID
81204	Vanua Levu	FJ
81211	ROTUMA	FJ
81212	WESTERN DIVISION	FJ
81213	CENTRAL DIVISION	FJ
81214	EASTERN DIVISION	FJ
81215	NORTHERN DIVISION	FJ
81501	FEDERATED STATES OF MICRONESIA	FM
81502	CHUUK STATE	FM
81503	YAP STATE	FM
81504	POHNPEI STATE	FM
81505	KOSRAE STATE	FM
92301	Guam	GU
102501	Hawaii	HW
102502	MOLOKAI ISLAND	HW
110601	Indonesia	ID
110602	Irian Jaya	ID
110603	Berau District	ID
112501	Pacific Ocean	IW
121801	Japan	JP
131001	Cambodia	KH
131101	ARANUKA ATOLL	KI
131103	TARAWA ATOLL	KI
131104	KIRITIMATI ATOLL	KI
151001	Marshall Islands	MH
151002	Ratak Chain	MH
151501	Myanmar	MM
151801	Northern Marianas	MP
151802	Saipan	MP
151803	Tinian	MP
152701	Malaysia	MY
152702	Sabah	MY
160501	NEW CALEDONIA	NC
160502	LOYALITY ISLANDS	NC
160503	NORTHERN PROVINCE	NC
160504	SOUTHERN PROVINCE	NC
162001	Nauru	NR
162801	New Zealand	NZ
180801	FRENCH POLYNESIA	PF
180802	LEEWARD GROUP	PF
180803	Windward Group	PF
180804	Marquesas Islands	PF

Locality ID	Locality	Country ID
180806	TUAMOTU GROUP	PF
180807	Actaeon Islands	PF
180808	Gambier Islands	PF
180901	PAPUA NEW GUINEA	PG
180902	EAST NEW BRITAIN PROVINCE	PG
180903	MADANG PROVINCE	PG
180904	WESTERN PROVINCE	PG
180905	MILNE BAY PROVINCE	PG
180906	MOROBE PROVINCE	PG
180907	MANUS PROVINCE	PG
180909	EAST SEPIK PROVINCE	PG
180910	CENTRAL PROVINCE	PG
180911	NEW IRELAND PROVINCE	PG
180912	BOUGAINVILLE PROVINCE	PG
180913	WEST NEW BRITAIN PROVINCE	PG
180914	WEST SEPIK (SANDAUN) PROVINCE	PG
181001	PHILIPPINES	PH
181601	Pitcairn	PN
182501	PALAU	PW
182502	Kayangel State	PW
182503	Ngarchelong State	PW
182504	Ngiwal State	PW
182505	Melekeok State	PW
182506	KOROR STATE	PW
182507	PELELIU STATE	PW
182508	Angaur State	PW
182509	Sonsorol State	PW
182510	Hatohobei State	PW
182511	AIMELIIK STATE	PW
182512	NGARAARD STATE	PW
182513	NGARDMAU STATE	PW
210401	SOLOMON ISLANDS	SB
210402	CHOISEUL PROVINCE	SB
210403	NEW GEORGIA	SB
210404	SANTA ISABEL	SB
210405	Malaita	SB
210406	GUADACANAL	SB
210407	RUSSELL ISLANDS	SB
210408	SANTA CRUZ ISLANDS	SB
210409	RENDOVA ISLAND	SB
210410	TETEPARE ISLAND	SB

Locality ID	Locality	Country ID
210411	Makira	SB
210412	RENNELL ISLAND	SB
210413	Ontong Java	SB
210414	SHORTLAND ISLANDS	SB
210415	RENARD ISLAND	SB
221001	Thailand	TH
221301	Tokelau	TK
221701	Tonga	TO
221702	Vavau Group	TO
221703	Haapai Group	TO
221704	Nomuka Group	TO
221705	Tongatapu Group	TO
221706	Niua Group	TO
222401	Tuvalu	TV
222402	FUNAFUTI	TV
222501	TAIWAN	TW
241601	Vietnam	VN
242302	Akamb Island	VU
242303	Ambae Island, Vanuatu	VU
242304	Ambrym Island, Vanuatu	VU
242305	Aniwa Island	VU
242306	Erromango Island, Vanuatu	VU
242307	Efate Island	VU
242308	Emau Island	VU
242309	Epi Island	VU
242310	Espiritu Santo, Vanuatu	VU
242311	Kakula Island, Vanuatu	VU
242312	Malekula Island, Vanuatu	VU
242313	Malo Island	VU
242314	Maskelyne Islands	VU
242315	Moso Island	VU
242316	Nguna Island, Vanuatu	VU
242317	Pele Island	VU
242318	Pentecost Island	VU
242319	Tanna Island, Vanuatu	VU
242320	Tekoa Island	VU
242321	Uliveo Island, Vanuatu	VU
242323	Loh Island	VU
242324	Emae	VU
242325	Sakau Island	VU
242326	Aneityum	VU

Locality ID	Locality	Country ID
242328	Motalava Island	VU
242329	Rah Island	VU
242330	Torres Island	VU
242331	Vanualava Island, Torba Province	VU
242332	VANUATU	VU
242333	Avok Island	VU
242334	Lelepa Island	VU
242335	Namuka Island/epi	VU
242336	Paama Island	VU
242337	Gaua Island, Torba Province	VU
242338	Tegua Island, Torres Islands	VU
242339	MALAMPA PROVINCE	VU
242340	PENAMA PROVINCE	VU
242341	SANMA PROVINCE	VU
242342	SHEFA PROVINCE	VU
242343	TAFEA PROVINCE	VU
242344	TORBA PROVINCE	VU
250801	Wallis and Futuna	WF
252101	Samoa	WS
252102	Upolu Island	WS
252103	Apolima Island	WS
252104	Manono Island	WS
252105	Savaii Island	WS

13.6.3 Sites table

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3210212	POLOA VILLAGE			32102

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3210213	NUA VILLAGE			32102
3210214	SEETAGA VILLAGE			32102
3210215	ALOFAU VILLAGE			32102
3210216	PAGAI VILLAGE			32102
3210217	FAGA'ITUA VILLAGE			32102
3210218	NUUULI VILLAGE			32102
3210219	LIONS PARK (NUUULI)			32102
3210220	LEPUA VILLAGE			32102
3210221	FAGALII VILLAGE			32102
3210222	SATALA VILLAGE			32102
3210223	AMOULI VILLAGE			32102
3210224	AUASI VILLAGE			32102
3210225	AMALUIA VILLAGE			32102
3210226	LELOALOA VILLAGE			32102
3210227	TAFUNA VILLAGE			32102
3210228	NUUULI VILLAGE/PALA			32102
3210229	ALAO VILLAGE			32102
3210230	VAITOGI VILLAGE			32102
3210231	VATIA VILLAGE			32102
3210232	AOA VILLAGE			32102
3210233	MALAEIMI VILLAGE			32102
3210234	GATAIVAI VILLAGE			32102
3210235	MASEFAU VILLAGE			32102
3210236	MARINA			32102
3210237	ALOAU VILLAGE			32102
3210238	FAGATOGO VILLAGE			32102
3210239	UNKNOWN			32102
3210240	AFONO VILLAGE			32102

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3210401	ROSE ATOLL	1433.000S	16809.000W	32104
3230101	Aquarium, Green I; Marineland			32301
3230102	Arlinging Reef (Cairns)	1645.000S	14605.000E	32301
3230103	Bushy Island (off Mackay)	2057.200S	15042.500E	32301
3230104	Green Island	1645.000S	14559.000E	32301
3230105	Low Isles, Port Douglas	1623.000S	14534.000E	32301
3230106	Michaelmas Cay, Cairns	1636.500S	14558.400E	32301
3230107	Oyster Reef, off Cairns	1638.000S	14557.000E	32301
3230108	Upolu Cay	1640.000S	14556.000E	32301
3230201	Aquarium, Magnetic I; Sharkworld			32302
3230202	Aquarium, Reefworld; Cairns			32302
3230203	Aquarium, T'ville;GBR Wonderland			32302
3230204	Bowen, Port Denison	2003.000S	14830.000E	32302
3230205	Burdekin Delta	1937.000S	14335.000E	32302
3230206	Cairns : Mossman to Dunk Is			32302
3230207	Carlisle Island, off Mackay	2047.910S	14328.150E	32302
3230208	Cockermouth Island, off Mackay	2020.000S	14900.000E	32302
3230209	Curtis Island, Gladstone	2342.000S	15118.000E	32302
3230210	Facing Island, Gladstone	2349.000S	15122.000E	32302
3230211	Gladstone area (Fitzroy R. to Bustard He			32302
3230212	Hazelwood Island	2017.000S	14905.000E	32302
3230213	Holbourne Island	1944.000S	14822.000E	32302
3230214	Hopevale fishing area (off Cooktown)			32302
3230215	Lindeman Island	2027.000S	14901.000E	32302
3230216	Macdonald Point, Shoalwater Bay	2220.000S	15012.000E	32302
3230217	Mackay: Broadsound-Repulse Bay			32302
3230218	Mossman to Lizard Island			32302
3230219	MTW: Armstrongs Beach	2125.746S	14917.772E	32302

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3230220	MTW: Ballykeel Beach	2114.922S	14915.768E	32302
3230221	MTW: Belmunda Beach	2056.418S	14900.822E	32302
3230222	MTW: Blacks Beach	2102.394S	14911.166E	32302
3230223	MTW: Bucasia Beach	2100.240S	14909.402E	32302
3230224	MTW: Campwin Beach	2122.440S	14918.966E	32302
3230225	MTW: Cape Hillsborough	2055.194S	14902.730E	32302
3230226	MTW: Carmilla	2154.654S	14927.738E	32302
3230227	MTW: Dewars Beach	2046.752S	14849.782E	32302
3230228	MTW: Eimeo Beach	2102.082S	14910.512E	32302
3230229	MTW: Far Beach	2111.160S	14911.526E	32302
3230230	MTW: Freshwater Point	2124.996S	14919.878E	32302
3230231	MTW: Grasstree Beach	2121.594S	14918.492E	32302
3230232	MTW: Haliday Bay	2053.688S	14859.256E	32302
3230233	MTW: Harbour Beach, north	2104.848S	14913.650E	32302
3230234	MTW: Harbour Beach, south	2106.642S	14913.410E	32302
3230235	MTW: Hay Point Beach	2116.662S	14917.694E	32302
3230236	MTW: Lamberts Beach	2104.398S	14913.650E	32302
3230237	MTW: Louisa Creek Beach	2116.368S	14915.324E	32302
3230238	MTW: Newry Island	2051.162S	14855.344E	32302
3230239	MTW: Rabbit Island	2049.890S	14854.072E	32302
3230240	MTW: Salonika Beach	2118.798S	14917.544E	32302
3230241	MTW: Sarina Beach	2122.812S	14918.948E	32302
3230242	MTW: Seaforth Beach	2052.782S	14857.264E	32302
3230243	MTW: Smalleys Beach	2054.918S	14900.324E	32302
3230244	MTW: Town Beach	2109.084S	14912.204E	32302
3230245	MYW: Ball Bay	2054.138S	14859.670E	32302
3230246	Palm Island fishing area			32302
3230247	Peak Island	2315.000S	14313.000E	32302

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3230248	Repulse Bay	2027.000S	14848.000E	32302
3230249	Repulse Bay to C. Townsend			32302
3230250	Townsville : Dunk Is - Burdekin R			32302
3230251	Whitsunday Group & Repulse Bay:Proserpin			32302
3230252	Wild Duck Island	2200.000S	14952.000E	32302
3230253	Yeppoon: C.Townsend to Fitzroy R			32302
3230254	SHOALWATER BAY	2223.000S	15015.000E	32302
3230301	Broomfield Reef, Capricornia	2316.000S	15156.000E	32303
3230302	Erskine Island, Capricornia	2330.000S	15146.000E	32303
3230303	Fairfax Island, Capricornia	2352.000S	15222.000E	32303
3230304	Heron Island, Capricornia	2326.000S	15155.000E	32303
3230305	Hoskyn Island, Capricornia	2348.000S	15218.000E	32303
3230306	Lady Elliott Island	2407.000S	15243.000E	32303
3230307	Lady Musgrave Is., Capricornia	2354.000S	15223.000E	32303
3230308	Masthead Island, Capricornia	2332.000S	15143.000E	32303
3230309	Northwest Island, Capricornia	2318.000S	15142.000E	32303
3230310	One Tree Island, Capricornia	2330.000S	15205.000E	32303
3230311	Polmaise Reef, Capricornia	2334.000S	15141.000E	32303
3230312	Sykes Reef, Capricornia	2326.000S	15202.000E	32303
3230313	Tryon Island, Capricornia	2315.000S	15146.000E	32303
3230314	Wistari Reef, Capricornia	2329.000S	15153.000E	32303
3230315	Wreck Island, Capricornia	2320.000S	15157.000E	32303
3230402	Coral Sea			32304
3230403	Coral Sea: ****			32304
3230404	Coral Sea: ****			32304
3230405	Coral Sea: Chilcott Island	1654.000S	14950.000E	32304
3230406	Coral Sea: Coringa Islet	1658.000S	14954.000E	32304
3230407	Coral Sea: Diamond Islet			32304

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3230408	Coral Sea: NE Herald Cay	1656.000S	14911.000E	32304
3230409	Coral Sea: southeast Magdelaene C			32304
3230410	Coral Sea: SW Herald Cay	1700.000S	14850.000E	32304
3230411	Coral Sea: Willis Island	1617.000S	14957.000E	32304
3230501	Bargara, Woongarra	2449.000S	15228.000E	32305
3230502	Barubara Is & Skyringville			32305
3230503	Boaga; Baffle Ck- Littabella Ck	2433.000S	15205.000E	32305
3230504	Fraser Island	2515.000S	15310.000E	32305
3230505	Hervey Bay			32305
3230506	Kellys/Moneys Beach, Woongarra	2450.000S	15228.000E	32305
3230507	Mon Repos, Woongarra Coast	2448.000S	15227.000E	32305
3230508	Moore Park, Bundaberg	2444.000S	15220.000E	32305
3230509	Neilson Park, Woongarra Coast	2449.000S	15228.000E	32305
3230510	Oaks, Burnett Hd, Woongarra Coast	2447.000S	15226.000E	32305
3230511	Rules Beach, sth of Wreck Rock	2438.000S	15202.000E	32305
3230512	Sandy Strait			32305
3230513	Wilson Island, Capricornia	2318.000S	15155.000E	32305
3230514	Woodgate, Hervey Bay			32305
3230515	Wreck Rock	2419.000S	15158.000E	32305
3230601	Bountiful Is; Wellesley Group	1640.000S	13951.000E	32306
3230602	Crab Island	1059.000S	14206.000E	32306
3230603	Gulf of Carpentaria			32306
3230604	Kurumba area, GoC			32306
3230605	Rocky Island, Gulf of Carpentaria	1619.000S	13917.000E	32306
3230606	Weipa area			32306
3230607	Wellesley Gp., GoC			32306
3230701	Ashmore Reefs, Indian Ocean	1215.000S	12305.000E	32307
3230702	Cocos (Keeling) Island	1210.150S	09650.517E	32307

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
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3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3230801	Beanley Island, Howick Gp.	1426.000S	14454.000E	32308
3230802	Bewick Island, Howick Gp.	1426.000S	14449.000E	32308
3230803	Bird Island, nGBR	1142.000S	14305.000E	32308
3230804	Boydong Is	1129.000S	14301.000E	32308
3230805	Cholmondeley Island, NGBR			32308
3230806	Clack Reef, Flinders Group	1404.000S	14415.000E	32308
3230807	Corbett Reef, PCB	1400.000S	14407.000E	32308
3230808	Crocodile Cay, nGBR	1110.000S	14305.000E	32308
3230809	Douglas Island, NGBR			32308
3230810	Farmer Is. (Piper Islands), nGBR	1215.000S	14313.000E	32308
3230811	Hannah Island, northern GBR	1352.000S	14343.000E	32308
3230812	Hannibal Island, northern GBR	1136.000S	14256.000E	32308
3230813	Howick Island, Howick Gp.	1430.000S	14459.000E	32308
3230814	Jardine Island, NGBR			32308
3230815	Little Boydong Island, nGBR	1129.000S	14305.000E	32308
3230816	Lockhardt R. fishing area			32308
3230817	Macarthur Island, NGBR	1144.000S	14259.000E	32308
3230818	Milman Island, NGBR	1110.000S	14301.000E	32308
3230819	Pipon Island	1407.000S	14431.000E	32308
3230820	Princess Charlotte Bay			32308
3230821	Saunders Island, NGBR	1142.000S	14311.000E	32308
3230822	Sinclair Island, NGBR	1109.000S	14301.000E	32308
3230823	Sir Charles Hardy Isles	1154.000S	14328.000E	32308
3230824	Wallace Island, NGBR	1127.000S	14302.000E	32308
3230825	Morris Island Reef, NGBR	1328.000S	14345.000E	32308
3230826	COMBE REEF, HOWICK GP	1441.010S	14457.000E	32308
3230827	HOWICK GROUP	1426.485S	14449.000E	32308
3230828	UN-NAMED REEF, NGBR	1526.000S	14531.000E	32308

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3230829	PIPER REEF, NGBR	1215.517S	14314.217E	32308
3230901	Ham Cay, northern GBR	1302.000S	14352.000E	32309
3230902	No.7 Sandbank, NGBR	1327.000S	14359.000E	32309
3230903	No.8 Sandbank, NGBR	1322.000S	14358.000E	32309
3231003	Aquarium, Porpoise Pool; Coff's H			32310
3231004	Eraring Power Station, NSW	3305.000S	15130.000E	32310
3231005	Julian Rocks, NSW	2836.000S	15337.000E	32310
3231006	NSW (general)			32310
3231007	Solitary Islands Marine Park,NSW			32310
3231101	Norfolk Island	2858.000S	16755.000E	32311
3231201	Arnhem Land, Northern Territory			32312
3231202	Fog Bay, NT (M. Guinea study)	1242.000S	13021.000E	32312
3231203	Gove - Groote Eylandt area, eastern NT			32312
3231204	Greenhill Island, NT			32312
3231205	Lawson Island, NT	1103.000S	13215.000E	32312
3231206	Macarthur River delta area, NT	1555.000S	13643.000E	32312
3231207	New Year Island, NT	1054.000S	13202.000E	32312
3231208	North Oxley Island, NT	1059.000S	13149.000E	32312
3231209	Northern Territory (general)			32312
3231210	NT: Wessel Group: Raragala Is			32312
3231211	Roper River area, NT			32312
3231212	Sir Edward Pellew Gp, NT			32312
3231213	South Oxley Island, NT	1101.000S	13149.000E	32312
3231214	Truant Island, NT	1140.000S	13649.000E	32312
3231215	Goulburn Island, NT	1138.367S	13322.667E	32312
3231301	Maclennan Cay, NGBR	1122.000S	14348.000E	32313
3231302	Moulter Cay (ex Pandora Cay)	1127.000S	14400.000E	32313
3231303	Raine Island	1136.000S	14401.000E	32313

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
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3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3231501	Aquarium, Seaworld; Gold Coast			32315
3231502	Beachemere & Bribie Passage			32315
3231503	Chain Banks, Moreton Bay			32315
3231504	Coochiemudlo, Moreton Bay	2734.000S	15320.000E	32315
3231505	Deception Bay, Moreton Bay			32315
3231506	Gold Coast, south Queensland			32315
3231507	Maroom Banks, Moreton Bay	2725.000S	15322.000E	32315
3231508	Moreton Banks, Moreton Bay	2721.000S	15324.000E	32315
3231509	Moreton Bay			32315
3231510	Moreton Island			32315
3231511	Nudgie Beach, Moreton Bay	2721.000S	15306.000E	32315
3231512	Peel Island, Moreton Bay	2730.000S	15321.000E	32315
3231513	Pelican Banks, Moreton Bay	2736.000S	15323.000E	32315
3231514	Redcliffe Pen., Moreton Bay			32315
3231515	Redland Bay-Brisbane R, Moreton B			32315
3231516	Stradbroke Island			32315
3231517	Sunshine Coast, south Queensland			32315
3231518	Whitsunday:Airlie Beach			32315
3231519	Whitsunday:Double Bay			32315
3231520	Whitsunday:Shute Bay			32315
3231521	Whitsunday:Woodwark Bay			32315
3231522	Sovereign Islands	2752.700S	15324.100E	32315
3231523	RUSSEL ISLAND, MORETON BAY	2739.000S	15322.866E	32315
3231601	Bacchi Cay, Swains Reefs	2139.000S	15223.000E	32316
3231602	Bell Cay, east of Swain Reefs	2149.000S	15114.000E	32316
3231603	Bylund Cay, Swain Reefs	2148.000S	15225.000E	32316
3231604	Frigate Cay, Swain Reefs	2145.000S	15225.000E	32316
3231605	Gannett Cay, Swain Reefs	2159.000S	15228.000E	32316

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
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3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
3231606	Price Cay, Swain Reefs	2147.000S	15227.000E	32316
3231607	Thomas Cay, Swain Reefs	2139.000S	15222.000E	32316
3231608	Twin Cays, Swain Reefs	2113.000S	15102.000E	32316
3231701	TAsmania			32317
3231801	Bamaga fishing area			32318
3231802	Don Cay, NE Torres Strait			32318
3231803	Jardine River mouth (south beach)	1055.000S	14212.000E	32318
3231804	PNG: Daru & Parama area			32318
3231805	Queensland Torres Strait			32318
3231806	Rennel Island, Torres Strait	0946.000S	14315.500E	32318
3231807	TS: Aureed Is	0957.000S	14317.000E	32318
3231808	TS: Bramble Cay	0949.000S	15252.000E	32318
3231809	TS: Campbell Island	0934.000S	14329.000E	32318
3231810	TS: Deliverence Island	0932.000S	14131.000E	32318
3231811	TS: Kabbikane Island	0949.000S	14325.000E	32318
3231812	TS: Lacey Island	1037.000S	14237.000E	32318
3231813	TS: Layoak Island	0951.000S	14319.000E	32318
3231814	TS: Little Woody Island	1043.000S	14319.000E	32318
3231815	TS: Warrior Reefs	0938.677S	14310.032E	32318
3231816	SAKEMAN REEF, TORRES STRAIT			32318
3231817	JARDINE ROCK, HORN ISLAND	1036.000S	14216.000E	32318
3232001	WA:Rosemary Island	2028.000S	11636.000E	32320
3232002	Western Australia			32320
3232101	Australia			32321
3232102	Combe Reef	1441.240S	14457.000E	32321
3232103	CAIRNS REEF	1555.000S	14553.000E	32321
3232104	PIPER REEF, NGBR	1215.916S	14313.966E	32321
3232105	NORTHERN GBR			32321

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
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3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
5130101	Cook Islands			51301
5130102	Palmerston Atoll, Cook Islands	1802.717S	16308.467W	51301
5130201	ARORANGI			51302
5130301	AMURI			51303
5130401	ONEROA			51304
8120105	FIJI	1634.691S	17924.864E	81201
8120118	SITE UNKNOWN			81201
8120301	Nukulau Island (off Suva)			81203
8120302	Nairai Island	1750.000S	17930.000E	81203
8120401	Namenalala Island (24km SE Vanua Levu)			81204
8121101	ROTUMA	1230.000S	17705.000E	81211
8121102	Mainland (Paptea)			81211
8121202	TAVARUA ISLAND, MAMANUCA GROUP			81212
8121203	VOMO ISLAND, MAMANUCA GROUP	1729.915S	17715.166E	81212
8121205	KADAVU ISLAND, MAMANUCA GROUP			81212
8121206	MALOLO ISLAND, MAMANUCA GROUP	1744.868S	17710.533E	81212
8121207	TAVUA ISLAND, MAMANUCA GROUP			81212
8121208	TOKORIKI ISLAND, MAMANUCA GROUP			81212
8121209	TREASURE ISLAND RESORT, MAMANUCA GROUP	1739.311S	17716.025E	81212
8121210	Nanuya-i-ra Island	1639.565S	17735.316E	81212
8121211	Bounty Island	1740.212S	17718.212E	81212
8121212	Eori Island	1726.169S	17703.481E	81212
8121213	Kadomo Island	1729.366S	17703.072E	81212
8121214	Malamala Island	1743.254S	17716.302E	81212
8121215	Malolo Island	1744.509S	17716.302E	81212
8121216	Malolo Lailai Island	1746.336S	17711.539E	81212
8121217	Monu Island	1735.438S	17702.318E	81212

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1010101	Unknown			10101
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3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
8121218	Monuriki Island	1736.339S	17702.034E	81212
8121219	Namotu Island	1750.394S	17711.006E	81212
8121220	Navini Island	1742.179S	17713.312E	81212
8121221	Tavarua Island	1751.264S	17712.069E	81212
8121222	Tavua Island	1736.597S	17705.309E	81212
8121224	Vomo Island	1729.293S	17716.025E	81212
8121225	Vunivadra Island (South Sea Island)	1741.351S	17718.463E	81212
8121226	Yanuya Island	1735.364S	17703.353E	81212
8121227	Malake			81212
8121228	TURTLE ISLAND, YASAWA GROUP	1657.948S	17722.243E	81212
8121229	MATACAWA LEVU ISLAND, YASAWA GROUP	1657.085S	17719.569E	81212
8121230	YAQETA ISLAND, YASAWA GROUP	1659.601S	17720.013E	81212
8121301	KIUVA, VITI LEVU	1803.768S	17839.741E	81213
8121302	MAKULUVA ISLAND, VITI LEVU	1811.293S	17831.090E	81213
8121303	NUKULAU ISLAND, VITI LEVU	1810.423S	17830.950E	81213
8121304	YANUCA ISLAND, VITI LEVU			81213
8121305	NANANU-I-RA, VITI LEVU	1717.293S	17813.100E	81213
8121306	TOBERUA IS RESORT, DRALA IS, VITI LEVU	1758.450S	17842.316E	81213
8121307	SUVA CITY, VITI LEVU	1808.560S	17825.725E	81213
8121308	OVALAU ISLAND	1741.128S	17847.053E	81213
8121309	SIGATOKA, VITI LEVU	1808.000S	17730.000E	81213
8121310	CAKAU TASI REEF, BA	1725.000S	17735.000E	81213
8121311	BA, VITI LEVU	1731.000S	17740.000E	81213
8121312	NAVADALEVU REEF, OVALAU	1742.583S	17851.000E	81213
8121313	BATIKI ISLAND	1747.416S	17901.000E	81213
8121315	BEQA ISLAND	1823.000S	17808.000E	81213
8121316	VERATA, TAI LEVU, FIJI	1800.000S	17832.000E	81213
8121317	KOROVOU, TAI LEVU, VITI LEVU	1748.500S	17832.383E	81213

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
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3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
8121401	NAIRAI ISLAND	1747.515S	17924.761E	81214
8121402	MAKOGAI ISLAND	1726.783S	17857.933E	81214
8121403	CAQELAI ISLAND, LOMAIVITI GROUP	1747.156S	17843.501E	81214
8121404	WAKAYA ISLAND, LOMAIVITI GROUP			81214
8121405	TUVUCA ISLAND, NORTHERN LAU GROUP			81214
8121406	NAITAUBA ISLAND, NORTHERN LAU GROUP			81214
8121407	VATU VARA ISLAND, NORTHERN LAU GROUP			81214
8121410	ONO-I-LAU ISLAND, SOUTHERN LAU GROUP	2039.450S	17844.150W	81214
8121411	DOI, LAU GROUP			81214
8121413	TAVANA-I-COLO ISLAND, SOUTHERN LAU GROUP			81214
8121414	ONEATA ISLAND, SOUTHERN LAU GROUP			81214
8121415	YAGASA ISLAND, SOUTHERN LAU GROUP			81214
8121416	DRAVUNI ISLAND, KADAVU			81214
8121417	ONO ISLAND, KADAVU			81214
8121418	BULIA ISLAND, KADAVU	1850.379S	17830.920E	81214
8121419	YAUKUVE LEVU ISLAND, KADAVU			81214
8121420	VANUAKULA ISLAND, KADAVU			81214
8121421	DRUE VILLAGE, KADAVU			81214
8121422	NAIKOROKORO VILLAGE, KADAVU			81214
8121423	WAILAGI LALA ISLAND, NORTHERN LAU GROUP			81214
8121424	MALIMA ISLAND, NORTHERN LAU GROUP			81214
8121425	DUFF REEF (SAND CAYS)			81214
8121426	RIBOBO/KIBOBO ISLETS, NORTHERN LAU GROUP			81214
8121427	CIKOBIA-I-LAU ISLAND, NORTHERN LAU	1716.528S	17847.101E	81214
8121428	LAU GROUP			81214

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
8121429	LEVUKA TOWN, OVALAU ISLAND			81214
8121430	KADAVU ISLAND	1900.481S	17813.501E	81214
8121431	GALOA FISHERIES STATION, KADAVU			81214
8121432	Kadavu Island	1859.571S	17813.359E	81214
8121433	Ono Island	1853.573S	17829.093E	81214
8121435	Yaukuve Levu Island	1848.107S	17831.399E	81214
8121436	Vanuakula Island	1844.043S	17830.204E	81214
8121437	ADAVACI ISLAND			81214
8121438	AVEA ISLAND	1711.109S	17854.036W	81214
8121440	Kanacea Island	1715.443S	17908.565W	81214
8121441	Katafaga Island	1731.352S	17842.189W	81214
8121442	Kibobo Islets	1703.033S	17901.142W	81214
8121443	Malima Island	1706.589S	17911.351W	81214
8121444	Naitaba Island	1701.015S	17916.407W	81214
8121445	Sovu Islets	1709.422S	17849.352W	81214
8121446	Susui Island	1720.472S	17857.339W	81214
8121447	Tuvuca Island	1740.248S	17849.004W	81214
8121448	Vanua Balavu	1714.175S	17857.175W	81214
8121449	VATU VARA ISLAND, NORTHERN LAU GROUP	1725.329S	17931.216W	81214
8121450	Wailagi Lata Island	1644.548S	17906.111W	81214
8121451	Oneata Island	1826.176S	17828.233W	81214
8121452	Yagasa Island	1856.442S	17826.522W	81214
8121453	Doi	2038.272S	17842.487W	81214
8121454	Duff Reefs	1649.064S	17856.108W	81214
8121455	Tuvana-i-colo Island	2100.508S	17844.449W	81214
8121456	Udu Island	2037.545S	17844.596W	81214
8121457	Yanua Island	2036.256S	17840.547W	81214
8121459	Gau Island	1803.035S	17918.288E	81214

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
8121460	Koro Island	1717.553S	17924.371E	81214
8121461	Leleuvia Island	1748.265S	17843.197E	81214
8121462	Makodroga Island	1725.245S	17856.565E	81214
8121464	Wakaya Island	1736.310S	17900.044E	81214
8121465	CAKAULEVU BEACH, NABUNA, KORO ISLAND			81214
8121501	UDU POINT, YASAWA, VANUA LEVU	1607.491S	17957.216W	81215
8121502	NUKUBASAGA ISLAND			81215
8121503	NUKUSEMANU ISLAND			81215
8121504	VETAUA ISLAND			81215
8121505	QELELEVU ISLAND			81215
8121506	YADUA TABU ISLAND			81215
8121507	NAMENALALA ISLAND	1706.633S	17905.950E	81215
8121508	VATU-I-CAKE, MATAGI ISLAND			81215
8121509	NANUKU LEVU ISLAND			81215
8121510	NANUKU LAILAI ISLAND			81215
8121511	QAMEA ISLAND			81215
8121512	LAUCALA ISLAND			81215
8121513	YANUCA ISLAND			81215
8121514	NUKUDAMU VILLAGE, VANUA LEVU			81215
8121515	NUKUSA VILLAGE, VANUA LEVU			81215
8121516	RABI ISLAND			81215
8121517	CAKAUDROVE PROVINCE			81215
8121518	LABASA, VANUA LEVU	1626.000S	17924.000E	81215
8121519	VANUA LEVU	1633.000S	17915.000E	81215
8121520	KOROVOU	1757.000S	17821.000E	81215
8121521	SAVUSAVU	1650.000S	17910.000E	81215
8121522	NAIQAQI VILLAGE, WAILEVU PROVINCE			81215
8121523	Laucala Island	1645.230S	17940.284W	81215

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
8121525	Qamea Island	1646.238S	17945.431W	81215
8121526	Yadua Taba Island	1650.036S	17816.443E	81215
8121527	Yanuca Island	1630.040S	17941.129W	81215
8121528	Yacata Island	1715.233S	17931.234W	81215
8121529	Nanuku Levu Island	1643.113S	17927.139W	81215
8121530	Nakubasaga	1618.256S	17915.247W	81215
8121531	Qelelevu Island	1605.292S	17909.340W	81215
8121532	Vetauua Island	1556.536S	17923.347W	81215
8121533	Nukusemanu	1620.226S	17924.072W	81215
8121534	Nanuku Lailai	1642.355S	17926.567W	81215
8121535	Kavewa, Macuata			81215
8121536	Sausau Island, Macuata			81215
8121537	BUA, VANUA LEVU	1648.667S	17836.017E	81215
8121538	NATEWA BAY, SAVUSAVU	1635.683S	17938.533E	81215
8121539	DRUADRUA ISLAND, LABASA	1611.767S	17936.867E	81215
8150101	Elato Atoll	0730.000N	14610.000E	81501
8150102	Fananu Island, Chuuk, FSM			81501
8150103	Faraulep Island, FSM	0835.000N	14433.000E	81501
8150104	Federated States of Micronesia			81501
8150105	Gaferut Island, FSM	0914.000N	14523.000E	81501
8150106	Gielop Island, Yap, FSM	0956.000N	13954.000E	81501
8150107	Yar Island, Yap, FSM	0955.000N	13954.000E	81501
8150108	Ifaluk Island, FSM	0715.000N	14426.000E	81501
8150110	Kosrae, FSM			81501
8150111	Lamotrek Atoll, FSM	0727.000N	14623.000E	81501
8150112	Ngulu Atoll, Yap, FSM	0817.000N	13729.000E	81501
8150113	Nukuoro Island, FSM	0351.000N	15458.000E	81501
8150114	Olimarao Atoll, Yap, FSM	0742.000N	14552.000E	81501

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
8150115	Oroluk Atoll, Pohnpei, FSM	0732.000N	15519.000E	81501
8150116	Pikelot Island, FSM	0850.000N	14738.000E	81501
8150117	Pohnpei, FSM			81501
8150118	Satawal Island, FSM	0721.000N	14702.000E	81501
8150119	Ulithi Atoll, FSM	0946.000N	13940.000E	81501
8150120	West Fayu Atoll, FSM	0805.000N	14644.000E	81501
8150121	Woleai Atoll, FSM	0722.000N	14354.000E	81501
8150122	Yap Proper, FSM	0932.000N	13810.000E	81501
8150201	FANANU ISLAND			81502
8150202	WENO	0726.666N	15150.500E	81502
8150301	ELATO ATOLL	0730.000N	14610.000E	81503
8150302	SAWATAL ATOLL	0721.000N	14702.000E	81503
8150303	OLETAL ISLAND, ELATO ATOLL	0730.000N	14610.000E	81503
8150304	FALAITE ISLAND, LAMOTREK ATOLL			81503
8150305	ELATO ISLAND	0730.000N	14610.000E	81503
8150306	GIELOP ISLAND, ULITHI ATOLL	0956.000N	13954.000E	81503
8150307	NGULU ATOLL	0817.000N	13729.000E	81503
8150308	OLIMARAO ATOLL	0742.000N	14552.000E	81503
8150309	YAP PROPER	0932.000N	13810.000E	81503
8150310	YAP ISLAND	0932.000N	13810.000E	81503
8150311	WOLEAI ATOLL	721.050N	14352.717E	81503
8150312	PIG ISLAND, ULITHI ATOLL			81503
8150313	MESERAN ISLAND, NGULU ATOLL			81503
8150314	LETHOW ISLAND, NGULU ATOLL			81503
8150315	FALIPIY ISLAND, ELATO ATOLL			81503
8150316	MARIYANGO ISLAND, WOLEAI ATOLL	721.050N	14352.717E	81503
8150317	WOTTEGAI ISLAND, WOLEAI ATOLL	721.050N	14352.717E	81503
8150318	TOAS ISLAND, ELATO ATOLL			81503

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
8150319	FALIPIY ISLAND, OLIMARAO ATOLL			81503
8150320	OLIMARAO ISLAND, OLIMARAO ATOLL	0742.000N	14552.000E	81503
8150321	LEMOTREK ATOLL	0727.000N	14623.000E	81503
8150322	GAFERUT ISLAND	0914.000N	14523.000E	81503
8150323	FARAULEP ISLAND	0835.000N	14433.000E	81503
8150324	FADARAI, ULITHI ATOLL			81503
8150325	ULITHI ATOLL	1000.000N	13940.000E	81503
8150326	WEST FAYU	0832.900N	15120.450E	81503
8150327	FALALOP ISLAND	1000.950N	13947.450E	81503
8150328	PIKELOT ISLAND	806.250N	14738.817E	81503
8150401	OROLUK ATOLL	0732.000N	15519.000E	81504
8150402	NUKUORO ISLAND	350.767N	15456.300E	81504
8150403	KAPINGAMARANGI ISLANDs	104.150N	15446.217E	81504
8150501	KOSRAE ISLAND	0518.966N	16258.833E	81505
9230101	TUMON BAY	1331.000N	14448.000E	92301
9230102	NOMNA BAY	1617.305N	14445.793E	92301
9230103	PAGO BAY	1325.678N	14447.843E	92301
9230104	SUMAY MARINA	1326.455N	14439.221E	92301
9230105	EOD (ANDERSEN AIR FORCE BASE)	1335.256N	14455.483E	92301
9230106	SELLA BAY	1319.661N	14439.068E	92301
9230107	TARAGUE BEACH	1336.160N	14454.905E	92301
9230108	INARAJAN BAY	1316.576N	14445.046E	92301
9230109	AGAT	1322.855N	14439.510E	92301
9230110	RITIDIAN	1339.238N	14451.650E	92301
9230111	URUNAO	1338.353N	14450.880E	92301
9230112	COCOS ISLAND	1314.190N	14438.988E	92301
9230113	IPAO PARK	1329.149N	14446.374E	92301
9230114	TAGACHANG	1324.048N	14446.740E	92301

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
9230115	TOGCHA	1321.908N	14446.200E	92301
9230116	NOT RECORDED	1326.000N	14447.000E	92301
9230117	AIRPORT			92301
9230118	TURTLE COVE			92301
9230119	IPAN	1321.507N	14446.281E	92301
9230120	FALCONA BEACH	1336.718N	14450.129E	92301
9230121	CETTI BAY	1318.997N	14439.450E	92301
9230122	CASTRO BEACH, RITIDIAN			92301
9230123	SINAJANA	1327.633N	14445.116E	92301
9230124	UOG MARINE LAB	1325.706N	14447.920E	92301
9230125	JINAPSAN	1338.156N	14453.178E	92301
9230126	CAPRAS	1327.845N	14441.094E	92301
9230127	ACHO BAY	1315.702N	14444.254E	92301
9230128	TALOFOFO BAY	1320.274N	14445.870E	92301
9230129	APRA HARBOR	1325.577N	14440.159E	92301
9230130	PACIFIC ISLANDS CLUB	1330.222N	14447.520E	92301
9230131	SASA BAY	1326.941N	14440.829E	92301
9230132	GAB GAB BEACH	1326.542N	14438.576E	92301
9230133	WESTERN SHOALS			92301
9230134	MARBO CAVE			92301
9230135	MERIZO PIER	1315.832N	14439.913E	92301
9230136	JEFF'S PIRATE COVE, IPAN	1321.853N	14446.142E	92301
10250201	KAMALO	2103.484N	15652.871W	102502
11060101	AMBON			110601
11060102	ARU			110601
11060103	PANGANBAHAN, SW JAVA	0718.000S	10650.000E	110601
11060104	ARU ISLANDS	0615.000S	13440.000E	110601
11060105	LIKUPANG, NORTH SULAWESI	0140.316N	12532.500E	110601

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
11060107	TUKANG BESI ISLANDS, SULAWESI			110601
11060201	BARUKI	0005.000S	13800.000E	110602
11060202	RATIKWI	0005.000S	13800.000E	110602
11060203	MANOKWARI	0052.000S	13405.000E	110602
11060204	CENDERAWASIH BAY	0230.000S	13520.000E	110602
11060205	SORONG	0053.000S	13115.000E	110602
11060206	BIAK ISLAND	0100.000S	13600.000E	110602
11060207	BERAU BAY	0230.000S	13230.000E	110602
11060208	GAG ISLAND	027.683S	12952.900E	110602
11060301	MARATUA ISLAND	211.667N	11835.017E	110603
11250101	Pacific Ocean			112501
12180101	KOCHI	3333.383N	13332.216E	121801
12180102	OKINAWA	2621.000N	12747.000E	121801
12180103	KUME SHIMA			121801
12180104	KUME-JIMA, OKINAWA	2620.032N	12647.118E	121801
13110101	ARANUKA LAGOON	0125.000N	17300.000E	131101
13110301	TEMAKIN, BETIO ISLET	0121.220N	17255.116E	131103
13110302	TENGARURU			131103
13110303	TABORIO, NOTO			131103
13110304	NUKANTEWA, MARENANUKA ISLET			131103
15100101	Bikar Atoll, Marshall Islands	1215.000N	17007.000E	151001
15100102	Erikub Atoll, Marshall Islands	0908.000N	17002.000E	151001
15100103	Jemo Atoll, Marshall Islands	1006.000N	16930.000E	151001
15100104	Likiep Atoll, Marshall Islands			151001
15100105	Marshall Islands			151001
15100106	Majuro Island			151001
15100107	Wotje Atoll			151001
15100201	BIKAR ATOLL	1215.000N	17007.000E	151002

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
15100202	JEMO ISLAND	1006.000N	16930.000E	151002
15100203	ERIKUB ATOLL	0908.000N	17002.000E	151002
15100204	MAJURO ISLAND	0707.133N	17103.966E	151002
15100205	LIKIEP ISLAND			151002
15100206	WOTJE ATOLL			151002
15100207	MAJURO LAGOON	0707.452N	17109.954E	151002
15100208	AILUK ATOLL	1013.000N	16959.000E	151002
15100209	ALIEJ ISLET, AILUK ATOLL	1021.315N	16958.444E	151002
15180101	Northern Marianas Islands	1512.000N	14545.000E	151801
15180201	Wing Beach	1516.501N	14547.958E	151802
15180202	Naftan East Lookout			151802
15180203	Laulau Beach			151802
15180204	Bird Island			151802
15180205	Ladder Beach			151802
15180206	Bakers Dock			151802
15180207	Ginshing Wreckage			151802
15180208	Grotto Drive site			151802
15180209	Ice Cream reef			151802
15180210	Managaha Island			151802
15180211	Outer Cove Marina			151802
15180212	Objan Beach			151802
15180213	Forbitten Island			151802
15180214	Tank Beach			151802
15180215	Coral Ocean			151802
15180216	Garapan to San Roque			151802
15180217	Jefferson Beach			151802
15180218	Marine Beach			151802
15180219	Micro Beach			151802

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
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3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
15180220	Paupau Beach			151802
15180221	San Antonio to Garapan			151802
15180222	Public Works Beach			151802
15270201	Bakkungan			152702
15270202	Gulisan			152702
15270203	Pulau Selingan	0610.000N	11804.000E	152702
16050102	Fabre Island, New Caledonia			160501
16050103	Huon Island, New Caledonia	1803.000S	16357.000E	160501
16050104	Le Leizour Island, New Caledonia			160501
16050105	NEW CALEDONIA	2054.930S	16537.011E	160501
16050106	Surprise Island, New Caledonia			160501
16050109	WEST NEW CALEDONIA			160501
16050110	NORTH NEW CALEDONIA			160501
16050111	NORTH EAST NEW CALEDONIA			160501
16050112	NEHOUE BAY			160501
16050301	KAALA-GOMEN	2040.000S	16420.000E	160503
16050302	HUON ISLAND	1803.000S	16357.000E	160503
16050303	LE LEIZOUR ISLAND	1819.966S	16258.983E	160503
16050304	SURPRISE ISLAND	1831.983S	16301.983E	160503
16050305	FABRE ISLAND	1819.983S	16257.000E	160503
16050307	POUM	2014.000S	16400.000E	160503
16050308	POUEBO	2017.000S	16416.000E	160503
16050309	BELEP ISLAND	1943.000S	16337.750E	160503
16050310	VOH	2057.550S	16441.283E	160503
16050311	BAIE D'HARCOURT	2014.067S	16410.917E	160503
16050312	ILE BALABIO	2006.783S	16411.300E	160503
16050313	SAINTE-MARIE	2022.050S	16432.667E	160503
16050314	BAIE DE NEHOUE	2019.533S	16408.233E	160503

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
16050315	NEPOUI	2119.900S	16458.967E	160503
16050316	BAIE DE NEPOUI	2119.233S	16458.733E	160503
16050401	ILOT GI	2243.367S	16651.133E	160504
16050402	NOKANHUI ATOLL	2243.591S	16733.112E	160504
16050403	ILE DES PINES	2237.000S	16728.000E	160504
16050404	PUETEGE REEF, YATE	2209.550S	16657.216E	160504
16050407	ROCHE PERCEE	2023.000S	16434.000E	160504
16050408	OUEN ISLAND	2225.666S	16648.016E	160504
16050409	NOUMEA	2217.000S	16626.000E	160504
16050410	SOUTHERN PROVINCE			160504
16050411	RESERVE MARINE MERLET	2222.000S	16709.150E	160504
16280101	New Zealand			162801
16280102	New Zealand			162801
18080101	Borabora, French Polynesia			180801
18080102	FRENCH POLYNESIA	1740.784S	14924.410W	180801
18080103	Mopelia, French Polynesia	1649.000S	15357.000W	180801
18080104	Motu One, French Polynesia	1549.000S	15431.000W	180801
18080105	Scilly Atoll, French Polynesia	1630.000S	15440.000W	180801
18080106	Tahaa, French Polynesia			180801
18080107	Tahiti, French Polynesia	1737.000S	14927.000W	180801
18080201	MOOREA	1732.008S	14950.374W	180802
18080202	RAIATEA	1649.937S	15225.499W	180802
18080203	BELLINGSHAUSEN/MOTU ONE	1549.329S	15430.603W	180802
18080204	SCILLY ATOLL/MANUAE/FENUA URA	1632.550S	15441.070W	180802
18080205	MOPELIA/MAUPIHAA ATOLL	1648.088S	15356.979W	180802
18080206	TAHAA	1637.851S	15130.481W	180802
18080207	BORABORA	1629.693S	15144.660W	180802
18080208	TAHITI	1740.784S	14924.410W	180802

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
18080209	TUPAI ISLAND	1615.590S	15148.975W	180802
18080210	MAUPITI ISLAND	1625.458S	15216.829W	180802
18080211	HUAHINE	1643.689S	15100.779W	180802
18080212	TETIAROA	1659.088S	14934.758W	180802
18080213	PAPEARI, TAHITI	1744.783S	14921.067W	180802
18080601	RANGIROA	1507.657S	14738.721W	180806
18080602	MAKATEA ISLAND	1550.723S	14815.620W	180806
18080603	TEKEHAU ATOLL	1800.000S	14800.000W	180806
18080604	MATAIVA	1453.865S	14841.036W	180806
18080605	TAKAPOTO ATOLL	1430.000S	14520.000W	180806
18090101	Long Island, northern PNG	0513.000S	14705.000E	180901
18090102	north PNG coast			180901
18090103	Papua New Guinea			180901
18090104	PNG:Trobriand Islands			180901
18090105	South PNG coast, east of Fly R.			180901
18090106	PORT MORESBY AREA			180901
18090201	WIDE BAY	0502.840S	15201.327E	180902
18090301	KAVIENG			180903
18090302	GOODLUCK BEACH, LONG ISLAND	0520.000S	14705.000E	180903
18090303	ARIUPA BEACH, LONG ISLAND	0520.000S	14705.000E	180903
18090304	LONG ISLAND	0520.000S	14705.000E	180903
18090305	KOUROKO, LONG ISLAND	0520.000S	14705.000E	180903
18090306	SAOKO, LONG ISLAND	0520.000S	14705.000E	180903
18090307	BOKUWANA, LONG ISLAND	0520.000S	14705.000E	180903
18090308	JOMBA	0520.000S	14705.000E	180903
18090309	SAM, LONG ISLAND	0520.000S	14705.000E	180903
18090310	TOA, LONG ISLAND	0520.000S	14705.000E	180903
18090311	BARE, LONG ISLAND	0520.000S	14705.000E	180903

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
18090312	PORT SORORO, LONG ISLAND	0520.000S	14705.000E	180903
18090313	TANGI, LONG ISLAND	0520.000S	14705.000E	180903
18090314	SETEWA, LONG ISLAND	0520.000S	14705.000E	180903
18090315	ICE, LONG ISLAND	0520.000S	14705.000E	180903
18090316	PURUTAWALO, LONG ISLAND	0520.000S	14705.000E	180903
18090317	BUGIA			180903
18090318	KASU, LONG ISLAND	0520.000S	14705.000E	180903
18090319	MANAGRUM, LONG ISLAND	0520.000S	14705.000E	180903
18090320	KOTUGU, LONG ISLAND	0520.000S	14705.000E	180903
18090321	KIARO, LONG ISLAND	0520.000S	14705.000E	180903
18090322	BUKIA, LONG ISLAND	0520.000S	14705.000E	180903
18090323	PELE, LONG ISLAND	0520.000S	14705.000E	180903
18090324	MAK, LONG ISLAND	0520.000S	14705.000E	180903
18090325	SALAMANDA, LONG ISLAND	0520.000S	14705.000E	180903
18090326	SAOKOMATANA, LONG ISLAND	0520.000S	14705.000E	180903
18090327	IOMBA, LONG ISLAND	0520.000S	14705.000E	180903
18090328	ULIGAN, LONG ISLAND	0520.000S	14705.000E	180903
18090329	LAUNOGATE, LONG ISLAND	0520.000S	14705.000E	180903
18090330	PAIPAI, LONG ISLAND	0520.000S	14705.000E	180903
18090331	SIAPAN, LONG ISLAND	0520.000S	14705.000E	180903
18090332	WARAKALAP, LONG ISLAND			180903
18090333	SALONG, LONG ISLAND			180903
18090334	MARK, LONG ISLAND		14705.000E	180903
18090335	SAIDOR DISTRICT	0537.700S	14627.433E	180903
18090401	DARU AREA	0907.000S	14313.000E	180904
18090402	PARAMA REEF	0902.566S	14324.000E	180904
18090403	GIMINI REEF	915.000S	14301.000E	180904
18090404	WARRIOR REEF	928.617S	14308.567E	180904

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
18090405	OTAMABU REEF	915.217S	14302.333E	180904
18090406	TURE TURE	906.433S	14300.483E	180904
18090407	WAPPA REEF	927.550S	14308.183E	180904
18090501	NORMANBY ISLAND	0957.000S	15110.000E	180905
18090502	ALOTAU	1018.333S	15026.133E	180905
18090503	GOODENOUGH AREA	1000.000S	15000.000E	180905
18090504	PANAPOMPOM ISLAND	1046.000S	15223.000E	180905
18090505	FERGUSSON ISLAND	0931.666S	15040.783E	180905
18090506	TOBIKI ISLAND	1043.166S	15144.733E	180905
18090507	TROBRIAND ISLANDS	0832.000S	15104.000E	180905
18090508	LABI ISLAND, TROBRIAND ISLANDS	0832.333S	15049.166E	180905
18090509	SUAU ISLAND	1042.183S	15015.250E	180905
18090510	MISIMA ISLAND	1040.230S	15244.840E	180905
18090601	KAMIALI WILDLIFE CONSERVATION AREA			180906
18090602	EWARE VILLAGE	0745.000S	14735.000E	180906
18090603	LABABIA	0717.000S	14708.000E	180906
18090604	LABUTALE VILLAGE	652.083S	14656.900E	180906
18090701	MANUS ISLAND			180907
18090702	HERMIT ISLANDS	0130.000S	14505.000E	180907
18090703	LOU ISLAND	0225.000S	14720.000E	180907
18090704	SOPA SOPA HEAD, MANUS ISLAND	0158.000S	14635.000E	180907
18090705	HORAN REEF	0258.000S	14711.000E	180907
18090706	MAKAN REEF, HERMIT ISLANDS			180907
18090707	LEABON REEF, HERMIT ISLANDS			180907
18090708	LORENGAU	102.917N	14716.767E	180907
18090901	DASUA	0325.000S	14320.000E	180909
18091001	FISHERMAN'S ISLAND	931.000S	14703.000E	180910
18091002	PORT MORESBY	928.583S	14709.183E	180910

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
18091003	NAWALE REEF, AROMA COAST	1011.000S	14802.000E	180910
18091101	KAVIENG	0235.000S	15047.000E	180911
18091102	KUNG ISLAND	0223.000S	15005.716E	180911
18091103	UMBUKUL VILLAGE, NEW HANOVER, KAVIENG	0230.600S	14959.250E	180911
18091104	MAHUR ISLAND	246.983S	15239.550E	180911
18091105	ENANG ISLAND	240.000S	15029.000E	180911
18091201	CARTERET/TULUN/KILINAILAU ISLANDS	0445.028S	15524.011E	180912
18091202	TOROBERA ISLAND?	541.650S	15508.150E	180912
18091301	WANGORE BAY	0500.666S	15008.383E	180913
18091302	GLOUCESTER	0530.683S	14830.633E	180913
18091303	KEMBE	533.017S	15008.567E	180913
18091401	VANIMO	240.933S	14118.000E	180914
18100101	BASIAD BAY, CAMARINES NOTRE	1416.000N	12219.000E	181001
18100102	SIMUNUL, TAWI TAWI	0510.000N	12000.000E	181001
18100103	SARANGANI BAY, SOUTH COTABATO	0550.000N	12512.000E	181001
18100104	MABASTE ISLAND	1355.766N	12349.850E	181001
18100105	Northern Samar			181001
18100106	CANAWAY, QUEZON	1358.000N	12220.000E	181001
18100107	SURIAGO DEL NORTE	0938.000N	12542.000E	181001
18100108	EASTERN SAMAR			181001
18100109	DAVAO ORIENTAL	0707.000N	12619.000E	181001
18100111	APUAO, GRANDE ISLAND	1300.000N	12200.000E	181001
18100112	SUYANGAN	1300.000N	12200.000E	181001
18100113	BASCO, BATAN ISLAND	2027.000N	12158.000E	181001
18100115	PHILIPPINES			181001
18100116	BUGUI POINT, MASBATE	1234.961N	12315.703E	181001
18100117	BATAG ISLAND, NORTHERN SAMAR	1238.950N	12503.667E	181001

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
18100118	SUBURI, SIASI, SULU	0614.050N	12110.500E	181001
18100119	SOUTHERN LEYTE	1057.000N	12442.000E	181001
18100120	PALIMBANG, SULTAN KUDARAT	0612.000N	12411.000E	181001
18100121	GARCHITORENA, CAMARINE SUR	1353.050N	12321.233E	181001
18100122	ZAMBOANGA DEL SUR	0733.200N	12322.950E	181001
18100123	CAMARINES SUR	1349.816N	12321.500E	181001
18100124	MINDANAO	0739.866N	12412.766E	181001
18100125	MANINGA, SUBIC, ZAMBALES	1543.000N	11954.000E	181001
18100126	BENEG, BOTOLAN, ZAMBALES	1517.220N	12001.950E	181001
18100127	ZAMBOANGA CITY, WESTERN MINDANAO	0651.331N	12204.116E	181001
18100128	DOLORES, EASTERN SAMAR	1202.950N	12529.517E	181001
18160101	Pitcairn Island	2504.000S	13006.000W	181601
18250101	Helen Island, Palau	0259.000N	13149.000E	182501
18250104	PALAU	0630.650N	13326.015E	182501
18250108	BABELDAOB ISLAND	728.400N	13432.283E	182501
18250201	Kayangel Island, Palau			182502
18250202	Ngeriungs Island, Palau			182502
18250203	Ngerebelas Island, Palau			182502
18250204	Orak Island,Palau			182502
18250601	NGERUKUID PRESERVE			182506
18250602	MALAKAL	0719.666N	13427.033E	182506
18250603	KOROR	0720.000N	13430.000E	182506
18250701	ORANGE BEACH	659.433N	13413.400E	182507
18250702	Honeymoon Beach			182507
18250703	Scarlet Beach			182507
18250704	PELELIU STATE	700.000N	13414.000E	182507
18250705	IYAI REEF, PELELIU WEST COAST	702.117N	13414.583E	182507
18250706	UNKNOWN			182507

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
18250801	ANGAUR ISLAND	654.150N	13408.167E	182508
18250901	SONSOROL ISLAND, PALAU	0520.000N	13213.000E	182509
18250902	MERIR ISLAND	0419.000N	13219.000E	182509
18250903	FANA ISLAND	0521.000N	13213.000E	182509
18251001	HELEN REEF	0259.000N	13149.000E	182510
18251002	HELEN ISLAND	0259.000N	13149.000E	182510
18251003	TOBI ISLAND	0300.000N	13111.000E	182510
18251004	PULO ANNA	0440.000N	13148.000E	182510
18251101	AIMELIIK STATE	0727.833N	13429.066E	182511
18251201	UNKNOWN			182512
18251202	LEMAU RA ULEUUL			182512
18251203	TOACHEL CHOL	740.933N	13438.650E	182512
18251204	NGARAARD STATE	0737.000N	13437.300E	182512
21040101	Bagora, Solomon Islands	0650.000S	15610.000E	210401
21040102	Geuru- South Tetepari,Solomon Islands	0844.000S	15748.000E	210401
21040103	Kerehikapa, Solomon Islands	0725.000S	15800.000E	210401
21040104	Malaita, Solomon Islands			210401
21040105	Mamalohu Island, Solomon Islands	0657.000S	15730.000E	210401
21040106	Mariu Island - Solomon Islands	0849.000S	15748.000E	210401
21040107	Nupani, Solomon Islands			210401
21040108	Obeani Island-NE Beach - Solomon Islands	0651.000S	15611.000E	210401
21040109	Piru Island - Solomon Islands	0651.000S	15608.000E	210401
21040110	Sampu- South Tetepari, Solomon Islands	0845.000S	15732.000E	210401
21040111	Sikopo-Arnavon Is, Solomon Islands			210401
21040112	SOLOMON ISLANDS	0938.742S	16009.371E	210401
21040113	Maohu Island	0653.000S	15550.000E	210401
21040201	WAGINA ISLAND, CHOISEUL PROVINCE	0725.000S	15745.000E	210402
21040202	CHOISEUL ISLAND	700.950S	15654.250E	210402

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1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
21040301	RARO ISLAND			210403
21040302	VONAVONA (PARARA) ISLAND	0813.067S	15704.217E	210403
21040401	SASAKOLO BEACH	0747.000S	15841.000E	210404
21040402	LITOGHAHIRA BEACH	0754.000S	15848.000E	210404
21040403	GOVEO VILLAGE	759.917S	15923.367E	210404
21040404	KEREHIKAPA ISLAND, ARNAVONS ISLANDS	727.250S	15801.367E	210404
21040405	KIA ISLAND	0733.000S	15826.000E	210404
21040406	SIKOPO ISLAND, ARNAVONS ISLANDS	726.417S	15758.517E	210404
21040407	ARNAVON/MALEIVONA ISLAND, ARNAVONS GROUP	0729.000S	15803.000E	210404
21040408	YANDINA			210404
21040409	SIRE BAY	0735.000S	15726.000E	210404
21040501	MALAITA ISLAND	0900.000S	16100.000E	210405
21040601	HONIARA	0925.500S	15956.833E	210406
21040801	NUPANI ISLAND, TEMOTU PROVINCE			210408
21040802	NELUA	1040.000S	16600.000E	210408
21040901	BANIATA, RENDOVA ISLAND	0838.000S	15715.000E	210409
21040902	IRIVRI, RENDOVA ISLAND	0840.000S	15721.333E	210409
21040903	RAFARAFA	0838.333S	15716.166E	210409
21041001	TETEPARE ISLAND	0845.193S	15733.666E	210410
21041002	QEURU BEACH, TETEPARE	0844.666S	15730.333E	210410
21041003	SITE NO.1	0842.000S	15727.000E	210410
21041004	SITE NO. 5	0843.166S	15727.000E	210410
21041005	SITE NO. 6	0843.333S	15727.333E	210410
21041006	VASARA	0844.166S	15728.166E	210410
21041007	SOE	0845.500S	15731.500E	210410
21041008	SIBAQUASA	0847.333S	15735.166E	210410
21041009	KARUMU	0847.166S	15736.666E	210410

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
21041010	LIVUTANA	0847.600S	15738.000E	210410
21041011	SOBU	0847.333S	15735.166E	210410
21041012	FIELD STATION	0848.500S	15727.000E	210410
21041013	TOFA BEACH	0845.500S	15732.000E	210410
21041014	MESA POINT	0843.000S	15726.666E	210410
21041015	NABO NIBAO	0842.666S	15726.000E	210410
21041016	DUI			210410
21041017	NAENAE			210410
21041018	FIHA			210410
21041019	SAREVO PASSAGE			210410
21041401	OBEANI ISLAND, OBEANI GROUP	0651.000S	15611.000E	210414
21041402	BAGORA ISLAND, OBEANI GROUP	0650.000S	15610.000E	210414
21041403	PIRU ISLAND, OBEANI GROUP	0651.000S	15608.000E	210414
21041404	TAPANU ISLAND, OBEANI GROUP			210414
21041405	SAMARAI ISLAND, OBEANI GROUP			210414
21041501	BOROMANI ISLANDS	0835.000S	15723.000E	210415
22130101	Tokelau	0900.000S	17200.000W	221301
22170101	TONGA	2110.649S	17511.720W	221701
22170201	VAVAU ISLAND	1836.300S	17357.817E	221702
22170301	LIFUKA ISLAND	1948.700S	17421.350W	221703
22170302	Haáno Island			221703
22170303	TOFUA ISLAND	1945.167S	17503.967W	221703
22170304	UIHA ISLAND	1953.283S	17424.483W	221703
22170305	HAAPAI	1947.000S	17420.000W	221703
22170501	HAATAFU	2104.217S	17519.700W	221705
22170503	TONGATAPU ISLAND	2110.666S	17511.666W	221705
22170504	SOPU	2107.533S	17513.067W	221705
22240101	Tuvalu	0800.000S	17800.000E	222401

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
22240102	NUKUFETAU ISLAND	0800.000S	17822.000E	222401
22240201	FUALOPA ISLET	0829.741S	17904.168E	222402
22240202	FUAKEA ISLET	0834.843S	17904.638E	222402
22240203	FUNAFUTI ISLAND	0831.457S	17911.705E	222402
22240204	FUNAFALA ISLET	0831.623S	17905.265E	222402
22240205	FUALAFEKE ISLET			222402
22240206	FUAFATU ISLET			222402
22240207	VAASAFUA REEF			222402
22240208	PAPAELISE ISLET			222402
22240209	TEPUKA LAGOON			222402
22240210	TE GASU			222402
22240211	MATAFENUA			222402
22240212	FONGAFALE ISLET			222402
22250101	NAN-WAY BAY	2330.000N	12100.000E	222501
24230126	ROBUNAS	1212.203S	12121.353E	242302
24230127	VARO VILLAGE			242302
24230128	RORBAEIGK			242302
24230129	MAROU VILLAGE	1212.201S	12121.353E	242302
24230130	RANON	1609.550S	16805.733E	242304
24230131	MANGALILIU	1738.183S	16812.067E	242307
24230132	EMUA VILLAGE	1732.250S	16822.917E	242307
24230133	EPAU VILLAGE	1734.117S	16830.217E	242307
24230134	SIVIRI	1731.417S	16819.567E	242307
24230135	PANGO POINT	1746.917S	16815.583E	242307
24230136	MGINAE BEACH, MANGARONGO VILLAGE			242308
24230139	MANGARONGO VILLAGE			242308
24230140	KOPESIMAETO VILLAGE			242308
24230141	VATUKURA			242308

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24230142	VATURANA			242308
24230143	WIANA PASSAGE			242308
24230144	LAWA SOUTHWEST BAY			242312
24230145	VAKAS BASIS			242312
24230146	PINAPOW BEACH INSIDE THE BURAO TENMARU			242312
24230147	BAMBOO BAY	1624.867S	16724.217E	242312
24230149	PELONGK VILLAGE	1631.100S	16749.833E	242314
24230150	TAIKESA			242316
24230151	LAKEN NAPERE			242316
24230152	TARENA			242316
24230153	TALOA VILLAGE	1729.017S	16823.000E	242316
24230154	NGUNA-PELE CONSERVATION AREA	1728.883S	16823.467E	242316
24230156	MATAKOVE			242316
24230157	NAGISUTARE BEACH, UNAKAP VILLAGE			242316
24230159	PILIURA	1730.167S	16824.333E	242317
24230160	LAUNSAAKE VILLAGE			242317
24230161	LITATRA VILLAGE			242320
24230162	NGULELY LENGA POINT			242323
24230163	WORARANA, FINONGE VILLAGE			242324
24230165	TAHUMBEN VILLAGE			242325
24230166	TASMANIA VILLAGE			242325
24230167	TONOMEAL VILLAGE			242325
24230169	VATMBEAF VILLAGE			242325
24230170	MYSTERY ISLAND	2014.917S	16946.300E	242326
24230230	AKAMB VILLAGE			242302
24230231	LUWOIMANKAI			242302
24230301	FANDUE			242303

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
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3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24230302	NAVONDA			242303
24230303	LONGANA			242303
24230304	TAHIMAWARI			242303
24230305	LOLOWAI VILLAGE			242303
24230306	HALAVA			242303
24230307	WALURIKI			242303
24230308	RED CLIFF			242303
24230309	SERATAMATA			242303
24230431	PENAPO			242304
24230432	SAMEAU			242304
24230433	CRAIG COVE	1615.617S	16755.200E	242304
24230434	PAAMAL	1619.133S	16818.700E	242304
24230435	TOAK	1619.817S	16817.767E	242304
24230436	BAIAP	1618.483S	16758.967E	242304
24230437	ULEI	1620.000S	16817.667E	242304
24230438	ENDU	1615.333S	16815.233E	242304
24230440	MAGAM			242304
24230441	RANMUHU			242304
24230442	KONKON			242304
24230443	RANVETLAM	1610.233S	16805.500E	242304
24230444	FARAMSU			242304
24230445	RANBE			242304
24230446	MAAT			242304
24230447	WURO	1616.183S	16756.017E	242304
24230448	PORT VATO	1619.650S	16802.033E	242304
24230449	LOLONWE			242304
24230450	SANESUP			242304
24230451	AMBRYM ISLAND	1614.000S	16807.000E	242304

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24230452	Lonbili			242304
24230453	OLAL VILLAGE	1606.035S	16809.749E	242304
24230454	LALINDA BEACH	1620.533S	16803.450E	242304
24230455	MALTOU VILLAGE			242304
24230456	MARANATA BEACH	1622.267S	16807.667E	242304
24230501	ISAVAI LAGOON			242305
24230502	ISAVAI VILLAGE			242305
24230503	ANIWA ISLAND	1519.517S	16936.100E	242305
24230504	ANIWA LAGOON			242305
24230505	Namsafura			242305
24230506	Ngonou			242305
24230601	DILLONS BAY	1849.050S	16900.683E	242306
24230602	PORT NARVIN	1844.817S	16912.517E	242306
24230603	COOKS BAY	1848.000S	16912.850E	242306
24230604	HAPPY LAND	1855.283S	16905.267E	242306
24230605	IPOTA VILLAGE	1851.300S	16917.350E	242306
24230606	BOUNKIL/PONKIL BAY	1853.983S	16903.450E	242306
24230737	EFATE ISLAND	1740.867S	16824.083E	242307
24230740	KAKULA ISLAND	1731.033S	16824.267E	242307
24230744	Uliveo Island, Vanuatu			242307
24230749	LUKURANGA			242307
24230750	FATUPAU	1731.783S	16826.500E	242307
24230751	TASIPUARIKI			242307
24230752	SAMOA POINT	1734.367S	16814.917E	242307
24230753	SALEA PASSAGE			242307
24230754	LESS			242307
24230755	MANGEA			242307
24230756	EPAU VILLAGE REEF	1737.617S	16830.267E	242307

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
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3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24230757	ULEI	1734.167S	16815.833E	242307
24230758	MALAPOAMATU			242307
24230759	TOA LIMA			242307
24230760	NAPANGORO			242307
24230761	LANUSOANGA			242307
24230762	TOA LIMA PASSAGE			242307
24230763	NAMOSO			242307
24230764	EPULE VILLAGE	1733.650S	16827.867E	242307
24230765	LAUKIKI			242307
24230766	PARALOPA			242307
24230767	LAUKENASUA	1732.967S	16820.517E	242307
24230768	LANUKARAE			242307
24230769	SALEA			242307
24230770	ETON BEACH	1744.283S	16833.833E	242307
24230771	EKIPE VILLAGE	1734.083S	16827.950E	242307
24230772	MATARISU VILLAGE			242307
24230773	TAKARA VILLAGE	1732.100S	16826.850E	242307
24230774	PANUAGISU VILLAGE			242307
24230775	SAAMA VILLAGE	1732.400S	16821.867E	242307
24230776	TANOLIU VILLAGE	1734.133S	16815.217E	242307
24230777	TUKUTUKU RANCH	1742.667S	16809.867E	242307
24230778	DEVIL'S POINT	1744.583S	16810.900E	242307
24230779	ERATAP	1747.383S	16830.267E	242307
24230780	SUN ISLAND			242307
24230781	VATUPAU			242307
24230782	HAT (ERETOKA) ISLAND	1738.483S	16809.500E	242307
24230783	MELE	1741.700S	16816.433E	242307
24230784	Black Sands			242307

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24230785	LELEPA LANDING	1736.467S	16814.450E	242307
24230844	NGURUA VILLAGE			242308
24230846	LASOA			242308
24230847	LAUSAKE VILLAGE			242308
24230848	WIANA VILLAGE			242308
24230849	NAORAWARUA			242308
24230850	LAUSAKE PASSAGE			242308
24230851	Marou			242308
24230901	VOLAN VILLAGE			242309
24230902	WANBE VILLAGE			242309
24230903	BRISBANE VILLAGE			242309
24230904	BONGOVIO VILLAGE			242309
24230905	ROVOLIU VILLAGE			242309
24230906	VILAKARA VILLAGE			242309
24230907	MAFILAU VILLAGE			242309
24230908	SARA VILLAGE			242309
24230909	VOTLO VILLAGE	1648.083S	16816.417E	242309
24230910	NIKAURA VILLAGE	1638.800S	16313.483E	242309
24230911	SMOL STONE			242309
24230913	ALACK REEF	1640.000S	16811.000E	242309
24230914	VOTLO RESEARCH SITE			242309
24230915	PORT QUMIE			242309
24230916	LAMEN BAY	1635.117S	16807.983E	242309
24230917	MOWEN			242309
24230918	NIVENUE VILLAGE			242309
24230919	LAMEN ISLAND	1635.650S	16809.950E	242309
24230920	NUVI VILLAGE			242309
24230921	RED STONE			242309

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24230922	LOPALIS VILLAGE			242309
24230923	MORIU VILLAGE			242309
24230924	NUL VILLAGE			242309
24230925	LOKOPUA VILLAGE			242309
24230926	SUWAILE			242309
24230927	ROVOLIU BAY			242309
24230928	TEKELELE VILLAGE			242309
24230929	ELIU VILLAGE			242309
24230930	NGALA VILLAGE			242309
24230931	NELSON BAY	1645.850S	16809.283E	242309
24230932	RINGDOVE BAY	1638.133S	16808.167E	242309
24230933	EPI ISLAND	1640.000S	16811.000E	242309
24231001	TEBROMA VILLAGE			242310
24231002	HOG HARBOUR	1508.683S	16706.767E	242310
24231003	MANIOC VILLAGE			242310
24231004	TANGOA ISLAND	1535.633S	16659.517E	242310
24231005	LOKALE			242310
24231006	NAKERE VILLAGE			242310
24231007	MALFRUR/MALFOR			242310
24231008	NATAWA VILLAGE			242310
24231009	PORT OLRY	1502.617S	16704.533E	242310
24231010	CHAMPAGNE BEACH	1508.617S	16707.233E	242310
24231011	VAIPEI VILLAGE	1446.000S	16637.000E	242310
24231012	MOLBOE			242310
24231013	RADIO STATION			242310
24231014	ESPIRITU SANTO	1521.967S	16654.667E	242310
24231015	SAKAU ISLAND	1457.250S	16707.383E	242310
24231016	BIG BAY	1508.600S	16653.567E	242310

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24231101	KAKULA			242311
24231248	NAWOIMUNDUA			242312
24231249	MATANVAT VILLAGE			242312
24231250	LEMBENWEN LAGOON			242312
24231251	TUMARIS			242312
24231252	LATATA			242312
24231253	MANTLE-LAMB			242312
24231254	SOHBEF			242312
24231255	LIMESES			242312
24231256	LEVIAMP VILLAGE			242312
24231257	TOLWEI VILLAGE			242312
24231258	BENENAVET VILLAGE			242312
24231259	TENMARU VILLAGE			242312
24231260	RAMBEK VILLAGE			242312
24231261	LEMBINWEN VILLAGE	1630.000S	16725.000E	242312
24231262	LAWA VILLAGE			242312
24231263	MALUA BAY			242312
24231264	WINTUA VILLAGE	1629.117S	16726.933E	242312
24231265	ESBIGELS BAY			242312
24231266	UNMET VILLAGE			242312
24231267	ANWATAK VILLAGE			242312
24231268	URI VILLAGE			242312
24231269	BRENWEI VILLAGE	1608.433S	16716.700E	242312
24231270	WIN VILLAGE			242312
24231271	WILAK VILLAGE			242312
24231272	WIAWI VILLAGE	1607.217S	16711.217E	242312
24231273	LABO VILLAGE			242312
24231274	MALVAKAL VILLAGE			242312

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24231275	NERANEHME VILLAGE			242312
24231276	NUAS/LIRAN VILLAGE			242312
24231277	FARUN VILLAGE			242312
24231278	TOMMAN ISLAND	1635.583S	16728.500E	242312
24231279	POTOVRO VILLAGE			242312
24231280	CAROLINE BAY			242312
24231281	VAKAS VILLAGE			242312
24231282	VOVO VILLAGE			242312
24231283	TONTAR VILLAGE			242312
24231284	OKAI VILLAGE			242312
24231285	MANMOL			242312
24231286	MELIP VILLAGE			242312
24231287	REMBE			242312
24231288	MALEKULA ISLAND			242312
24231289	BENNEWUR			242312
24231290	LEVOR			242312
24231291	NEBURE			242312
24231292	WEISIR			242312
24231293	AKHAM ISLAND			242312
24231294	SOUTH WEST BAY	1629.367S	16726.283E	242312
24231295	LAMAP VILLAGE	1625.867S	16748.233E	242312
24231301	NANUKU VILLAGE			242313
24231302	AVUNATARI VILLAGE			242313
24231303	Malo Pass			242313
24231450	LEFOI			242314
24231451	PESKARUS VILLAGE	1631.633S	16749.433E	242314
24231452	RENFBERT			242314
24231453	LUTES VILLAGE	1631.650S	16749.767E	242314

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24231454	HEREH			242314
24231455	SAKAO ISLAND	1630.100S	16749.100E	242314
24231456	LENAMBIEN			242314
24231457	LEIMESES			242314
24231458	MENLAN			242314
24231459	DONOMIAL			242314
24231460	SIOF			242314
24231461	RUHRUH			242314
24231462	MASKELYNE ISLAND	1632.000S	16750.533E	242314
24231463	VULAI ISLAND	1632.867S	16747.167E	242314
24231464	Lombulomb			242314
24231465	Volombau			242314
24231466	Sohdideuo			242314
24231467	BISOHBETA REEF			242314
24231501	TASIRIKI VILLAGE	0152.000S	16517.000W	242315
24231502	EMOTU PASSAGE			242315
24231503	WHITE STONE			242315
24231504	TRANQUILITY RESORT	1733.783S	16813.667E	242315
24231505	SUNAE VILLAGE			242315
24231506	HELIPAD BEACH			242315
24231507	Moso Beach	1731.167S	16814.767E	242315
24231658	WORALAPA VILLAGE			242316
24231659	TIKILASOA VILLAGE			242316
24231660	MALALIU	1728.500S	16823.133E	242316
24231661	UNAKAP VILLAGE	1728.933S	16822.267E	242316
24231662	WORARIKI			242316
24231663	NEKAPA VILLAGE			242316
24231664	MERE VILLAGE			242316

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24231665	REWOKA VILLAGE	1726.933S	16821.783E	242316
24231666	FAREALAPA VILLAGE	1726.333S	16821.350E	242316
24231667	UTANLANG VILLAGE	1725.733S	16819.600E	242316
24231668	LANUVAREA			242316
24231669	LANUSAROI BEACH			242316
24231670	MATOA VILLAGE			242316
24231671	NAGUSTARE POINT			242316
24231672	MALAPAU PASSAGE			242316
24231673	MALAPAU VILLAGE			242316
24231674	VATVAKO			242316
24231761	WEREARU VILLAGE			242317
24231762	BIKFALA PASSAGE			242317
24231763	LANUAMOA VILLAGE	1730.150S	16825.050E	242317
24231764	FREEMANTLE			242317
24231765	Worasiviu			242317
24231801	ASAOLA VILLAGE			242318
24231802	BUNLAP VILLAGE			242318
24231803	LOLBIRIBIRISULU VILLAGE			242318
24231804	LATANO VILLAGE			242318
24231805	LOLTONG VILLAGE			242318
24231806	LABULTAMATA VILLAGE			242318
24231807	BWATNAPNI VILLAGE			242318
24231808	LOLTONG HARBOUR			242318
24231809	ABWATUNVUTU VILLAGE			242318
24231810	NAMARAM VILLAGE			242318
24231811	KUMREUT VILLAGE			242318
24231812	VAREREV			242318
24231813	MELSISI VILLAGE			242318

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24231814	WALI VILLAGE			242318
24231815	VANAIA VILLAGE			242318
24231816	HOTWOTA VILLAGE			242318
24231817	PANGI VILLAGE			242318
24231818	BARAVET-LESENTAB VILLAGE			242318
24231819	PANAS VILLAGE			242318
24231820	RANGUSUKSUK VILLAGE			242318
24231821	WATERFALL VILLAGE			242318
24231822	NAMWARANGIUT VILLAGE			242318
24231901	JOEL IAU'S VILLAGE			242319
24231902	TANNA ISLAND	1930.000S	16920.200E	242319
24232062	LATEU VILLAGE			242320
24232063	TAVLOEL VILLAGE			242320
24232363	HERELOL VILLAGE			242323
24232364	LINUA			242323
24232365	LUNGHARIGE			242323
24232464	ROVO BAY			242324
24232465	SASAKE			242324
24232466	VAITINI			242324
24232467	MAKATU VILLAGE			242324
24232468	VALESDIR VILLAGE			242324
24232469	LAVIAMP VILLAGE			242324
24232470	TENMARU VILLAGE			242324
24232471	SANGAVA VILLAGE			242324
24232472	TONGAMEA			242324
24232473	FINONGE VILLAGE			242324
24232474	NELSON BAY			242324
24232570	Behaveh			242325

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24232571	Batavusai			242325
24232572	Donomial			242325
24232573	SAKAU ISLAND	1630.000S	16749.000E	242325
24232671	UMEJ/UMETCH	2014.717S	16951.667E	242326
24232672	ANELGHOWHAT VILLAGE	2013.650S	16947.367E	242326
24232673	PORT PATRICK	2008.150S	16949.267E	242326
24232674	ANEITYUM ISLAND	2011.300S	16948.833E	242326
24232801	MOTALAVA VILLAGE			242328
24232802	TELVET VILLAGE			242328
24232803	TOTOULAL VILLAGE			242328
24232804	AVAR VILLAGE			242328
24232805	NERENIGMAN VILLAGE			242328
24232806	RAH VILLAGE			242328
24232901	RAH VILLAGE			242329
24233001	TEKUA VILLAGE			242330
24233002	TOKA VILLAGE			242330
24233003	LOH VILLAGE			242330
24233004	HIU VILLAGE			242330
24233101	VATRATA VILLAGE			242331
24233102	SOLA VILLAGE			242331
24233103	MUSINA VILLAGE			242331
24233104	VETIBOSO VILLAGE			242331
24233105	REVANA			242331
24233106	KEREBETA VILLAGE			242331
24233107	WASAGA VILLAGE	1343.670S	16730.367E	242331
24233201	VANUATU	1522.600S	16657.533E	242332
24233301	AVOK ISLAND	1632.000S	16746.000E	242333
24233302	LERERAN			242333

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
24233303	WILLES			242333
24233304	SUHURUH			242333
24233305	LEMARU			242333
24233306	LAWIA			242333
24233307	BINNIHO			242333
24233308	SEMSAHAO			242333
24233309	LEMBU BAY			242333
24233401	LELEPA VILLAGE	1735.000S	16812.000E	242334
24233402	NATAPAU VILLAGE	1736.000S	16813.000E	242334
24233403	LELEPA REEF			242334
24233404	LELEPA LANDING			242334
24233405	LEOSA PASSAGE			242334
24233501	NAMUKA	1644.683S	16813.967E	242335
24233601	PAAMA ISLAND	1628.000S	16814.000E	242336
24233602	LIRO VILLAGE	1627.000S	16813.000E	242336
24233701	GAUA ISLAND			242337
24233702	MATANDA			242337
24233801	LATEU			242338
25080101	Wallis and Futuna	1318.000S	17612.000W	250801
25080102	WALLIS ISLAND	1318.000S	17610.000W	250801
25210108	Samoa	1400.416S	17152.000W	252101
25210201	SALAMUMU	1359.833S	17155.433W	252102
25210202	FAGALOA	1356.550S	17134.117W	252102
25210203	MULINUU	1348.900S	17146.733W	252102
25210204	APIA	1349.967S	17146.050W	252102
25210205	FALEALILI	1400.783S	17139.650W	252102
25210206	MALIE	1347.917S	17150.767W	252102
25210207	MALUA	1348.000S	17153.019W	252102

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
25210208	MULIFANUA	1349.964S	17202.281W	252102
25210209	VINI BEACH	1703.133S	17125.133W	252102
25210210	NUUTELE ISLAND	1403.383S	17124.833W	252102
25210211	NUULUA ISLAND	1404.350S	17124.567W	252102
25210212	NUUSAFEE	1402.817S	17142.383W	252102
25210213	NAMUA ISLAND	1401.283S	17124.933W	252102
25210214	FANUATAPU ISLAND	1400.817S	17124.017W	252102
25210215	MANONO	1352.500S	17204.300W	252102
25210216	SAANAPU	1353.500S	17151.950W	252102
25210217	SATAOA	1359.217S	17150.017W	252102
25210218	TIAVEA BAY	1358.650S	17124.300W	252102
25210219	FAATALIGA LAUMEI			252102
25210220	UNKNOWN	1354.833S	17144.083W	252102
25210221	APIA FISH MARKET	1349.767S	17146.200W	252102
25210222	MALUA THEOLOGICAL COLLEGE	1347.953S	17154.108W	252102
25210223	LEULUMOEGA	1349.597S	17157.829W	252102
25210224	MATAUTU	1349.683S	17145.583W	252102
25210225	FALESEELA, LEFAGA	1356.367S	17158.117W	252102
25210226	VAITELE	1349.117S	17148.100W	252102
25210227	VAIGAGA	1349.533S	17147.733W	252102
25210228	FAGALOA BAY	1356.317S	17133.633W	252102
25210229	VAIUSU BAY	1349.417S	17147.050W	252102
25210230	UPOLU ISLAND	1354.833S	17144.083W	252102
25210231	VAIALA	1349.617S	17145.317W	252102
25210232	PALOLO DEEP	1349.300S	17145.383W	252102
25210233	AFEGA	1347.867S	17151.333W	252102
25210234	FUSI, SAFATA	1359.900S	17149.717W	252102
25210235	TUAEFU	1351.267S	17148.200W	252102

Site ID	Site Name	Latitude	Longitude	Locality ID
1010101	Unknown			10101
3210201	FOGAGOGO VILLAGE			32102
3210202	UTUMEA EAST VILLAGE			32102
3210203	LAULII VILLAGE			32102
3210204	UTULEI VILLAGE			32102
3210205	TULA VILLAGE			32102
3210206	PAGO PAGO VILLAGE			32102
3210207	MALOATA VILLAGE			32102
3210208	PAGO HARBOR			32102
3210209	FAGASA VILLAGE			32102
3210210	AMALAU BEACH			32102
3210211	AUA VILLAGE			32102
25210236	TAFAGAMANU, LEFAGA	1357.883S	17157.433W	252102
25210237	FALEULA	1347.817S	17149.767W	252102
25210238	LEAUVAA	1347.750S	17152.200W	252102
25210239	FASITOOUTA	1348.833S	17156.667W	252102
25210240	FAGALII	1350.250S	17144.217W	252102
25210241	LOTOFAGA	1402.733S	17134.100W	252102
25210242	VAILELE	1350.817S	17143.183W	252102
25210243	LOTOPA	1350.650S	17147.417W	252102
25210244	ULUTOGIA, ALEIPATA	1400.133S	17125.467W	252102
25210245	SALEIMOA	1348.050S	17152.350W	252102
25210246	LALOMANU	1402.917S	17126.383W	252102
25210247	APIA PARK	1350.083S	17145.067W	252102
25210248	VAITOLOA	1349.883S	17147.067W	252102
25210249	SAAGA BEACH, SAFATA	1404.867S	17146.033W	252102
25210301	APOLIMA ISLAND	1326.517S	17220.800W	252103
25210401	MANONO ISLAND	1350.983S	17206.633W	252104
25210501	VAITOOMULI	1345.000S	17212.500W	252105
25210503	SAMALAEULU			252105
25210504	SATOALEPAI	1326.517S	17220.800W	252105
25210505	ASAU			252105
25210506	FALEALUPO			252105
25210507	FAAALA, PALAULI	1345.633S	17217.417W	252105

13.7 Age class

Ageclass ID	ageclass
A	Adult (known sexually mature)

A?	Adult sized, maturity not guaranteed.
A00	The breeding season of an adult. 0 = Adult female that has yet to ovulate. Oviduct and ovary structurally indistinguishable from that of older adults, except for the lack of corpora albicantia/lutea
A01	The breeding season of an adult. 1 = Adult female in her 1st breeding season. breeding season code refers to the period from commencement of vitellogenesis for that season, through the entire nesting season, during the atretic phase until the commcement o
A02	The breeding season of an adult. 2 = Adult in her 2nd breeding season.
A03	The breeding season of an adult. 3 = Adult in her 3rd breeding season.
A04	The breeding season of an adult. 4 = Adult in her 4th breeding season.
A05	The breeding season of an adult. 5 = Adult in her 5th breeding season.
A06	The breeding season of an adult. 6 = Adult in her 6th breeding season.
A07	The breeding season of an adult. 7 = Adult in her 7th breeding season.
A08	The breeding season of an adult. 8 = Adult in her 8th breeding season.
A09	The breeding season of an adult. 9 = Adult in her 9th breeding season.
A10	The breeding season of an adult. 10 = Adult in her 10th breeding season.
A11	The breeding season of an adult. 11 = Adult in her 11th breeding season.
A12	The breeding season of an adult. 12 = Adult in her 12th breeding season.
A13	The breeding season of an adult. 13 = Adult in her 13th breeding season.
A14	The breeding season of an adult. 14 = Adult in her 14th breeding season.
A15	The breeding season of an adult. 15 = Adult in her 15th breeding season.
A16	The breeding season of an adult. 16 = Adult in her 16th breeding season.
A17	The breeding season of an adult. 17 = Adult in her 17th breeding season.
A18	The breeding season of an adult. 18 = Adult in her 18th breeding season.
A19	The breeding season of an adult. 19 = Adult in her 19th breeding season.
A20	The breeding season of an adult. 20 = Adult in her 20th breeding season.
AT	Adult status determined from carapace and tail measurements
H	Hatchling ·Hatchling merged from egg shell and still dependent on yolksac nutrient reserves.
J	Juvenile ·CCL > 35 cm up to CCL = 65 cm. (greens, loggerheads, flatbacks)· CCL > 35 cm up to CCL = 60 cm. (hawksbills)
PH	Post?hatchling ·Commenced feeding, having ceased depending on yolksac nutrient reserves.·planktonic phase
SA	Prepubescent immature ·subadult when gonads and ducts not examined and:· CCL > 65 cm up to maturity. (greens, loggerheads, flatbacks)· CCL > 60 cm " " " (hawksbills)· ? ridleys
SP	Pubescent immature·gonads and ducts differentiating from that of a young immature.
UNK	Unspecified

13.8 Tagging status

Tagging status ID	Tag Status
2NDRECD	Repetitive stranding for same animal. ·Used with marine mammal strandings only.
BROKEN	Tag cannot be applied? Retained.
BU	Tag recovered from Dr. H. R. Bustard's research
DNT	Dead, not tagged
FT	Turtle from another project / season
IR	Interseason return (remigrant) to the same study site
ISCHCOL	Interseason change of colony
ISR RTA	Turtle with healed tag scars. Interseason return retag
ISXNEST	Migration recapture of a nesting turtle back in its home feeding ground
LOST	Tag lost at study site? includes tags for which no record of application exists
MISSED	Animal not identified to a tag number and identified without observation of the animal (e.g. identified from tracks or nest characteristics)
NS	No information provided.
OBS	Animal captured but not tagged or observed at close quarters with an unambiguous species/sex/maturity assessment
P	Primary tagging, no tag scars = 1st time tagged
PHEADST	1st tagging for a head-started turtle
PMH	1st recapture of a turtle marked as a hatchling
P-R	New recruit to the breeding population·1st breeding season of ovulation· confirmed by laparoscopy / autopsy
SAMPLE	Tag retained as a sample of the methodology
WSCHCOL	Within season change of colony
WSR REC	Within Season Recapture
WSR RTA	Turtle with unhealed tag scars· within season return retag
WSXNEST	Possible internesting habitat recapture of turtles not immediately adjacent to the rookery
XCOURT	First capture at the rookery of a turtle previously tagged at courtship
XFG	First capture at a rookery or in a different feeding area for a turtle previously tagged at a feeding ground
XHEADST	Recapture from a head-starting project
XREHAB	Release from rehabilitation

13.9 Habitats

Habitat code	Habitat Description
BE	Bays, estuaries and other enclosed shallow soft sediments
BS	Bays, estuaries etc: intertidal & subtidal sea grass flats
B	Beach - below the vegetation line of the grass slope

HW	Below the mean spring high water line or current level of inundation
R	Coral reef
RG	Coral reef with seagrass flats
D	Dune
DS	Dune - bare sand area
DT	Dune - beneath tree or shrub
DC	Dune - constructed hard substrate (concrete slabs, timber floors, helipad) (Commenced use 1 Dec 2002
DG	Dune - grass area
DH	Dune - hard compacted areas (road ways, paths) (Commenced use 1 Dec 2002)
DR	Dune - rubble, usually coral
S	Front slope of dune
LS	Lagoon - open sand areas, typically shallow
LP	Lagoon - patch reef
M	Mangroves
??	No habitat information available
OW	Open water, including inter?reefal areas
RC	Reef crest (dries at low water) and front reef slope areas
RF	Reef flat, dries at low tide
RR	Rocky reef, e.g. adjacent to mainland
N	Sabah data - N Code
O	Sabah data - O Code
Y	Sabah data - Y Code
SF	Sand flats (e.g. off Bountiful of Crab Islands)
SS	Slope - bare sand area
ST	Slope - beneath tree or shrub
SG	Slope - grass area

14 Other lookup tables

14.1 User access levels

User level Code	User Level Description
A	Global Administrator -Full access to all data across all countries and projects. Available only in master database
D	Data Entry - Can enter and modify data but not lookup
P	Regional Administrator - Full access to all data across a country. Cannot add/edit categories
V	Viewer - Can view data but not make any modifications

14.2 Tag types

Tag Format ID	Tag Format Description

C	Conventional (Flipper)
D	Data Logger
P	Pit Tag
S	Satellite
X	Dummy tag

14.3 Tag positions

Tag position ID	Tag position description
C	Carapace
C2R	Carapace
CL	Carapace
CR	Carapace
L1	Left-hand Front Flipper # 1
L2	Left-hand Front Flipper # 2
L3	Left-hand Front Flipper # 3
LH	Left-hand REAR Flipper
R1	Right-hand Front Flipper # 1
R2	Right-hand Front Flipper # 2
R3	Right-hand Front Flipper # 3
RH	Right-hand REAR Flipper
X	Unknown

14.4 Experiment Type table

Experiment ID	Experiment Group ID	Experiment description
A*	ATP	general autopsy
AA	ATP	Anthropogenic items in gut content
AG	ATP	gut content
AN	ATP	necropsy performed
AP	ATP	parasites
AR	ATP	reproductive system
AS	ATP	skeletal material kept
AT	ATP	tissues ? general for histology/ ?
BC	BIO	Cloacal swab
BF	BIO	Biopsy
BM	BIO	Muscle biopsy
BO	BIO	Ovarian biopsy
BP	BIO	Papilloma biopsy
BS	BIO	Skin biopsy, for genetic analysis
BT	BIO	Testicular biopsy
BU	BIO	Sperm smear from groove of penis
BX	BIO	Skin biopsy, for carbon isotope analysis

Experiment ID	Experiment Group ID	Experiment description
A*	ATP	general autopsy
AA	ATP	Anthropogenic items in gut content
C	CRT	Notes on behaviour
EA	EGG	Artificial nest dug under a female who was incapable of constructing her own nest.
EC	EGG	Eggs collected for general study (albumen, yolks,...)
ED	EGG	Egg temperature at oviposition
EF	EGG	Flooding experiment
EG	EGG	Eggs for genetics research
EH	EGG	Hatchery ? general relocation to hatchery
EI	EGG	Laboratory incubator studies
EM	EGG	Clutch on beach measured out for relocation at emergence
EP	EGG	Clutch temperatures measured by instrument (digitron/etc)
ES	EGG	Sequential-clutch measurements
ET	EGG	Emergence time measurements
EW	EGG	Eggs reweighed during incubation
EZ	EGG	Mucous collected for microbial studies
F1	FSH	Crabbing: captured in a working crab pot rig.
F2	FSH	Crabbing: captured in a lost or discarded crab pot rig (ghost fishing).
F3	FSH	Crabbing: captured in a working dilly rig.
F4	FSH	Crabbing: trapped inside a crab pot.
FB	FED	Beads (2mm plastic) added to lower oesophagus via the stomach flushing tube.
FC	FSH	Crabbing: unidentified type or condition of trap.
FF	FED	Faeces sample.
FM	FED	Mouth sample.
FS	FED	Stomach sample.
GD	GWT	scute annulae drilled as markers
GM	GNT	mtDNA genetics research sample
HR	HTC	hatchling races
IC	INJ	cardiac puncture
IE	INJ	injection via cardiac puncture ? Evans blue
IO	INJ	injection via cardiac puncture ? Oxytocin
IP	INJ	injection i.p. ? salts
IX	INJ	cervical sinus blood sample
MC	MEA	colour metrics
MP	MEA	morphometrics on fibropapillomas
MS	MEA	morphometric measurements
N1	NST	magnets attached to head ? experimental

Experiment ID	Experiment Group ID	Experiment description
A*	ATP	general autopsy
AA	ATP	Anthropogenic items in gut content
N2	NST	magnets attached to head ? control
N3	NST	chemosensory blocks ? Mg ions
N4	NST	chemosensory blocks ? Zn ions
N5	NST	chemosensory blocks ? control
NB	NST	nesting behaviour notes & notes on biology and health
NC	NST	additional clutch data
NH	NST	additional hatchling data
NS	GEN	Not Specified
SE	SUR	surgical problems - embolism
SI	SUR	surgical problems - punctured intestine
SJ	SUR	surgical problems - punctured lung
SL	SUR	laparoscopic examination
SP	SUR	parasites observed internally during laparoscopic examination
SS	SUR	general surgery
SU	SUR	Ultra-sound examination
SX	SUR	surgical problems ? major bleeding and surgical correction
TC	TRN	Tethered female? courtship experiment
TR	TRN	Released in relocation experiment
TS	INJ	Time series stress experiment
UD	UDW	Datalogger attached.
UF	UDW	Float attached for visual tracking
UK	UDW	Attachment of a dummy datalogger or other simulated equipment.
UR	UDW	Radio tag. See applied tag: code the frequency as a tag number with an 'S' prefix.
US	UDW	Swimming pull trials
UT	UDW	Sonic tag. See applied tag: code the frequency as a tag number with an 'S' prefix.
UZ	UDW	Satellite telemetry. See applied tag: code the
X	SYM	External parasites/commensals/... data recorded.

14.5 Wind strength

Wind Strength
Fresh breeze
Fresh gale
Gentle breeze
Light air
Light breeze

Moderate breeze
Moderate gale
No wind
Storm
Strong breeze
Strong gale
Whole gale

14.6 Water depth

Water Depth
0-2 metres
10+ metres
2-5 metres
5-10 metres

14.7 Rain

Rain
Heavy rain
Light rain
Moderate rain
None

14.8 Wind direction

Wind Direction ID	Wind direction description
E	East
N	North
NE	North east
NW	North west
S	South
SE	South east
SW	South west
W	West

14.9 Sea condition

Sea Condition	Sort Order
Calm	1
Waves <0.5m	2
Waves >1m	4
Waves 0.5-1m	3

14.10 Shoreline type

Shoreline Type
Intertidal mudflats
Mangroves
Other
Rocks
Sand beach

14.11 Fibropapilloma description

Papillioma ID	fibropapilloma Description
A0	Tumor score = 0 for size < 1cm
A1	1-5 tumors ; size < 1cm
A2	> 5 tumors ; size < 1cm
B0	Tumor score = 0 for size 1-4 cm
B1	1-5 tumors ; size 1-4 cm
B2	> 5 tumors ; size 1-4 cm
C0	Tumor score = 0 for size >4 - 10 cm
C2	1-3 tumors ; size >4-10 cm
C3	>3 tumors ; size >4-10 cm
D0	Tumor score = 0 for size >10cm
D3	>1 tumors ; size >10 cm
P#	Turtle that has recovered from a previous GTFD infection
PG	Unquantified growths on the skin or on a the carapace
UK	Unknown

14.12 Nest site description

Nest Site Description
Exposed
Heavily shaded
Lightly shaded
Mostly shaded

14.13 Bottom composition

Bottom Composition
Coral
Fine soft sediment
Other
Rock
Sand

14.14 Cloud cover

Cloud Cover
0%
10%
100%
20%
30%
40%
50%
60%
70%
80%
90%