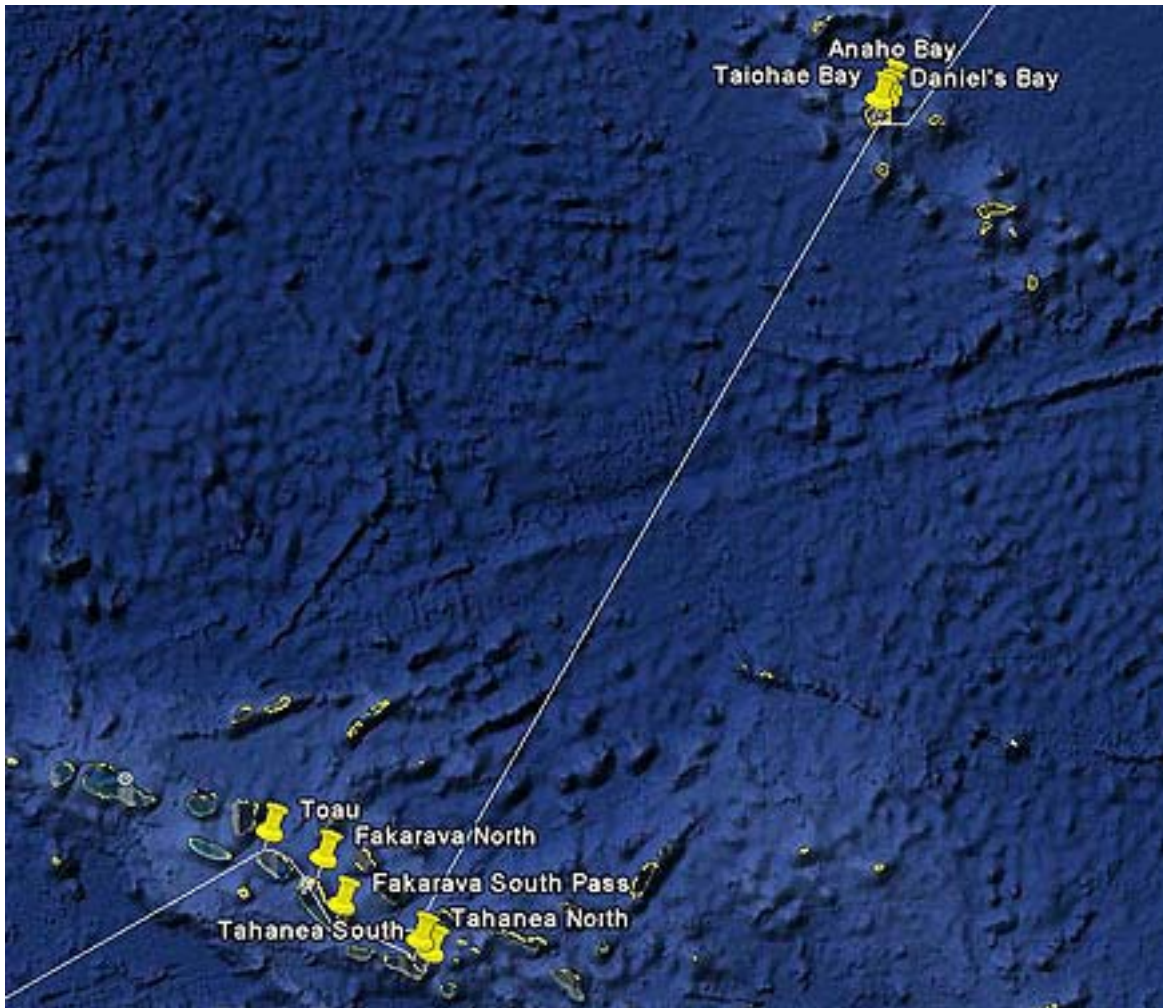


RisingTides Expedition 2010

Archipel des Tuamotu

April 12th through July 12th, 2010



Route from Marqueses to the Tuamotus

A five-day 523 nautical mile journey brought the crew safely and without incident to Tahanea. The crew arrived at Passe Teavatapu on the evening of June 16, 2010, however because of the outgoing tide; the pass would not be navigated until the morning on an incoming tide. With crew members Claudia Richardson and Lorraine Goodwin on the watch for obstructions into the pass, Brian Basura brought Skylight into the clear calm waters off the Teuakiri Islet. This is a small motu (coral island) that provides protection from prevailing westerly seas and wind. The water was pristine and clear. This was the crew's first experience with the curious black tip and white tip reef sharks that quickly came to check out the noise of the dingy motor.



Coral Atoll in Tahanea

The Tuamotu Archipelago is a group of 78 islands that extends almost 1,000 miles in a NW-SE direction. The atolls have little greenery except for palm trees and short grass. Together with the Marqueses and the Society Islands, they form French Polynesia, and are administered from Tahiti (Charlie's Charts of Polynesia, Charles and Margo Wood, 2005). Low-lying in character, they are considered dangerous for visiting yachts, thus chances are the less visited atolls will offer pristine waters for coral surveys. Interestingly, of the 78 islands, two southern atolls, Mururoa and Fangataufa were a French nuclear weapons testing site that ended in 1996. These are restricted atolls, which are now under radiation surveillance.



Route through the Tuamotus

In this respective order, the crew selected three atolls to visit: Tahanea (north and South); Fakarava (south pass and North Fakarava); and Toau.



Tahanea June 17th through 26th 2010

Two locations were surveyed by RisingTides, first the reef off of Teuakiri Islet and later across the lagoon on the southwest side of the atoll (no name is known for this remote site).



North Tahanea

This close-up provides the reader with a better view of Passe Tevatapu, just to the left of the pass is the islet, Teuakiri, and to the left of the anchorage (as marked by the yellow pin) is the reef surveyed by Brian Basura and Claudia Richardson. The Survey is provided at the end of this report. The team found the reef to be healthy with an abundance of hard, branched and bolder corals. Many colors of coral were evident, including blue and purple of which are not on the *Coralwatch* color chart, but should be noted here. Large fish such as black-tip sharks and grouper found here as well.

The team met well known bird enthusiast Bernie and Yvonne Katchor. Bernie and Yvonne were in search of the endangered Tuamotu sandpiper. Tahanea atoll is the only place where this species of sandpiper still existed because there were no rats to eat its eggs. Before leaving Tahanea, they did locate the sandpiper across the lagoon on one of the Southern atolls.

The team also took the time to observe the land habitat and found an old sign stating that Tahanea was a nature reserve. They observed that these windward atolls' shoreline was made up of large chunks of coral rubble. Between some of the atolls on the northern side were areas that would become tide pools during low-tide. The team observed that it supported invertebrate life, such as the octopus in the picture below.



Tahanea a Nature Reserve



Coral Rubble shoreline



An octopus tries to seek shelter in a shallow tidal pool



Tahanea Southwest

When the winds increased creating a lee shore on the north anchorage, the team picked up the anchor and headed across the lagoon to the Southwest side of the atoll. The route there was uncharted and the team had to be on the lookout for reefs just below the surface which created a hazard to navigation.

The Southwest anchorage turned out to be a real treat for the researchers. The water was crystal clear and the corals available at shallow depths allowing for surveys to be performed via snorkeling activities. The coral was very healthy. Large burring clams of a multitude of colors were observed. The surveys performed here are available at the end of this report.



Claudia Richardson taking a coral survey in this pristine location



Lorraine Goodwin surveys shallow water corals,
as Claudia Richardson helps record her findings



Large Hermit crabs enjoy a fallen coconut

The team also walked around nine of the atolls that surround this remote location. The atolls were mainly free of trash, as there was no human habitation. Most plastic debris were found on the windward motu on the northern side of Tahanea.



Fakarava (South Pass), June 27th through July 3rd 2010

The team moved northwest to the atoll of Fakarava, entering through the south pass. Again, they had to stand-off the passage (Passe Tumakohua) and wait overnight for the morning incoming tide. As they did so, the weather began to turn as a cold front started its approach to the Tuamotus, and once anchored the crew stayed aboard for days as the winds whipped up to 40 knots with continuous rain. The crew was able to capture fresh water from the rain and replenish the water tanks.

By the fourth day the crew was ready to get out and about. They met with a few of the cruisers there that were waiting out the storm. As the weather cleared, they were able to take in the local scenery of the village Tetamanu including old ruins and a grave yard.



Brian Basura checks out an old French ruin, built in 1883, in Tetamanu Village

While there the team noticed that on the side of the pass, a small resort seemed to have a good business, taking divers out of the pass. At this time, the crew was unaware that the strong current of the Tuamotus pass was a shark attraction. The crew met a couple on the sailboat Soggy Paws who were passionate about diving the Tuamotus. Sherry and Dave introduced Brian and Claudia to drift diving on an incoming tide through the pass, while towing their dinghies. They were amazed to find over 50 grey sharks and some white tip, and black tip reef sharks stacked in the pass, as the current flowed over them. The sharks seemed unaware of the divers, or at least not concerned that the divers were there.

There were also healthy branched-coral growths throughout the length of the pass and the huge Humphead Wrasse (Napoleon fish), a natural enemy of the Crown of Thorns starfish. However, just inside the pass, to the area where the boats are anchored, the coral diminish, with coral rubble closer to shore although the healthier coral beds can still be found a little deeper.



A small resort offers a drift Shark-dive in the pass



North Fakarava (Garue), July 3rd through 7th, 2010

The team then moved up to north Fakarava via the inner lagoon. They anchored in the designated anchorage off of the wharf of Totoava Village. Here the village was developed, complete with schools and soccer fields. The crew was able to reprovision food stores as well as being able to perform a reef survey.



Brian Basura Surveys the coral at Tetapiri Reef

This reef was selected because it can be found on navigational charts and it is easily identifiable. However, the researchers were disappointed in the conditions of the bay, and found that the human activities have made an impact to the declining conditioning of the bay. The area was heavy in silt. Most of the reef was made of dead coral. The team, reported on the coral that could be found and colors were captured in the report. Results of this survey can be found at the end of this report.



Blue Damsels still claim their silted over reef



Small Grouper



Toau

July 7th through 12th 2010

Via the Ham Radio, the crew was able to keep in contact with many of the friends they had made along the way to the Marquises (please refer to previous report) and they spoke highly of visiting Anse Amyot on the atoll of Toau.

This was the first location that provided moorings. Anchoring was not allowed in this small area. There is a husband and wife (Gaston and Valentine Damiens) who run a small restaurant here. And either one can pay a small fee (\$5 U.S per day), or during your stay one could pay for a meal at the restaurant (\$30 U.S. per person). After so many boat meals, the crew was ready for the island flavors offered on this lovely little atoll.

It was a true pleasure to meet them and enjoy their hospitality. Learning about their lives on the island provided a deeper look into what they have accomplished here. The fees they charge for their meals (or mooring) provide for the upkeep and addition of more moorings in order to preserve their reefs.



**Claudia Richardson and Brian Basura meet with
Environmentalism and Entrepreneur Valentine of Toau**

Valentine understands the environmental issues regarding the health of the reef that provides her with her livelihood. She also works with her neighboring atoll of Apataki and spreads the word that environmentalists are GOOD for them, not to be feared, and are looking out for their long term future. She finds that the indigenous people are much more likely to listen to her than an outsider such as the French scientists.

Right outside her restaurant lanai, one can visit with her boobie bird hatchlings. These she raises to take to neighboring islands that no longer have sea birds due to the rat population that feed on the bird eggs.

Brian and Claudia did try to perform a reef survey outside of Anse Amyot, however, the outgoing tide was quite strong and the team thought it best to abort the survey. However, a very large Napoleon fish was sighted. The approximate length was five to six feet. The condition of the coral flourished like that of the South Fakarava pass.



Boobie Hatchling raised to repopulate atolls



A new tree grow on the Coral shoreline of Toau



Self-taught, Valentine seeds oysters creating black pearls to be sold in Tahiti



Reflections of the solar eclipse July 11, 2010
A once in a lifetime experience



Before heading back to sea, Brian Basura enjoys a game of “Ball” with the locals

Sadly, the team has to make their way to Tahiti, taking with the fond memories of the island, of Valentine, Gaston and their family. The team enjoyed the couples’s harmony in which they are able to live on their island, have a prosperous livelihood and yet, keep the island and surrounding waters clean of pollutants.

Surveys

Two locations were selected for Tahanea. The reef located by the main pass and anchorage for Tahanea, and the Southeast side of the atoll. The Southeast side is a remote location, not charted, nor visited by many sailboats in one season. Both sites were pristine in water and land conditions. One site was selected for Fakarava. This location is located next to the main wharf and anchorage for the Town of Garue. The water was found to slightly murky and the reef was not in good health. For all areas, the GPS coordinates are given and can be revisited for further surveys.

Following are the results. The Coral Number indicates the coral surveyed. The color code indicates light (L) and dark (D) that matches the color chart as given by *Coralwatch*. This provides the general health of the coral and may show if the coral is undergoing bleaching or rejuvenation during a given time. With multiple sampling of the same area would be the best analysis over time. Coral Type can be boulder (Bo), branch (Br), soft (So), and plate (Pl).

The provided surveys have been slightly altered from the forms submitted to *Coralwatch* only to fit this report’s format.

Surveys taken on Tahanea, Reef off of Taotaena

Survey 1

Group Name:

RisingTides

email address: claudiarichardson@rocketmail.com

Participation field: environmental scientist

Country of reef: French Polynesia Tahanea Reef name: reef near west pass

GPS: 16 50.986 S & 144 41.733 W

Date of Survey: June 20, 2010

Your Name: Claudia

Richardson

Time collected: 1300

Weather: Sunny

Activity: Snorkeling

Sea Temperature:

84 degree Fahrenheit

Coral Number		Color Code L :	D:		Coral Type
1		D2	D2		Br
2		E2	E3		Br
3		D2	D2		Br
4		D2	D3		Br
5		D2	D3		Br
6		D2	D2		So
7		D2	D4		Br
8		D2	D3		So
9		C2	C3		Br
10		C2	C2		So
11		C2	C2		Br
12		D2	D2		Br
13		D2	D4		Br
14		E2	E3		So
15		D2	D2		So
16		D2	D5		So
17		D2	D3		So
18		D3	D4		Br
19		D2	D2		Br
20		C2	C3		Br

Any relevant
information:

Corals were surveyed on the reef off of the west pass. GPS coordination given.

Average depth of survey was

six feet

Any comments or

inquires:

Observed:

green moray eel greater than

30 cm

High tide with 75 cm to depth to coral top.

Survey 2

Group Name:

RisingTides

email address:

brianb@brianb.org

Participation field: Consultant

Country of reef: French Polynesia Tahanea Reef name: reef near west pass

GPS: 16 50.986 S & 144 41.733 W

Date of Survey: June 20, 2010

Your Name: Brian Basura

Time collected: 1300

Weather: Sunny

Activity: Snorkeling

Sea Temperature: 84 degree Fahrenheit

Coral Number		Color Code L :	D:		Coral Type
1		C1	C2		Br
2		C2	C3		Br
3		C2	C3		Br
4		C1	C2		Br
5		C2	C3		Br
6		C1	C3		Br
7		D1	D4		Br
8		C2	C3		Br
9		C1	C3		Br
10		D2	D3		Br
11		D2	D3		Br
12		D1	D2		Br
13		D1	D2		Br
14		D1	D2		Br
15		D1	D2		Br
16		D2	D3		Br
17		D2	D3		Br
18		D1	D4		Br
19		D2	D3		Br
20		D2	C3		Br

Any relevant
information:

Corals were surveyed on the reef off of the west pass. GPS coordination given.

Average depth of survey was
six feet

Diver selected branch coral for survey only

Observed:

hermit crab around

15 cm

High tide with 75 cm to depth to coral top.

Survey 3

Group Name:

RisingTides

email address: claudiarichardson@rocketmail.com

Participation field: environmental scientist

Country of reef: French Polynesia Tahanea Reef name: reef near west pass

GPS: 16 51.001 S & 144 41.734 W

Date of Survey: June 20, 2010

Your Name: Claudia

Richardson

Time collected: 1320

Weather: Sunny

Activity: Snorkeling

Sea Temperature:

84 degree Fahrenheit

Coral Number		Color Code L :	D:		Coral Type
1		D2	D3		So
2		D2	D3		Br
3		D2	D2		So
4		C2	C3		Br
5		E2	E2		So
6		D2	D2		So
7		D2	D3		So
8		D2	D3		So
9		C2	C4		Br
10		E2	E4		So
11		C3	C4		Br
12		C3	C4		Br
13		C3	C4		Br
14		C3	C4		So
15		D2	D2		So
16		D2	D4		Br
17		D2	D3		Br
18		B2	B3		So
19		B2	B3		So
20		C2	C3		So

Any relevant
information:

Corals were surveyed on the reef off of the west pass. GPS coordination given.

Average depth of survey was
six feet

Any comments or
inquires:

Observed:

2 Large parrot fish greater than
30 cm

High tide with 75 cm to depth to coral top.

Survey 4

Group Name:

RisingTides

email address:

brianb@brianb.org

Participation field: Consultant

Country of reef: French Polynesia Tahanea Reef name: reef near west pass

GPS: 16 50.986 S & 144 41.753 W

Date of Survey: June 20, 2010

Your Name: Brian Basura

Time collected: 1320

Weather: Sunny

Activity: Snorkeling

Sea Temperature:

84 degree Fahrenheit

Coral Number		Color Code L :	D:		Coral Type
1		C1	C2		Br
2		D2	D3		Br
3		D2	D3		Br
4		D2	D3		Br
5		D2	D3		Br
6		D2	D3		Br
7		D2	D3		Br
8		D1	D2		Br
9		D1	D2		Br
10		D1	D3		Br
11		D2	D3		Br
12		D2	D3		Br
13		D1	D4		Br
14		D2	D3		Br
15		D2	D3		Br
16		D1	D4		Br
17		D1	D4		Br
18		C2	C3		Br
19		C2	C3		Br
20		C1	C2		Br

Any relevant information:

Corals were surveyed on the reef off of the west pass. GPS coordination given.

Average depth of survey was six feet

Diver selected branch coral for survey only

Observed:

Large grouper approx. one meter in length

High tide with 75 cm to depth to coral top.

Survey 5

Group Name:
RisingTides

email address: claudiarichardson@rocketmail.com

Participation field: environmental scientist

Country of reef: French Polynesia Tahanea Reef name: reef near west pass

GPS: 16 50.996 S & 144 41.751 W

Date of Survey: June 20, 2010

Weather: Cloudy

Sea Temperature:

Your Name: Claudia
Richardson

Time collected: 1340

Activity: Snorkeling

84 degree Fahrenheit

Coral Number		Color Code L :	D:		Coral Type
1		C2	C4		Br
2		E2	E3		So
3		E2	E3		So
4		E2	E3		So
5		C2	C4		Br
6		C2	C4		Br
7		D2	D2		So
8		C2	C4		Br
9		D3	D4		Br
10		C2	C3		Br
11		C2	C3		Br
12		C2	C3		Br
13		C2	C4		Br
14		C2	C4		Br
15		C2	C3		Br
16		C2	C3		Br
17		D2	D3		Br
18		C2	C3		Br
19		D2	D3		Br
20		C2	C3		Br

Any relevant
information:

Corals were surveyed on the reef off of the west pass. GPS coordination given.

Average depth of survey was
six feet

Any comments or
inquires:

Observed:

One black-tip reef shark approx. 5 feet

High tide with 75 cm to depth to coral top.

Survey 6

Group Name:

RisingTides

email address:

brianb@brianb.org

Participation field: Consultant

Country of reef: French Polynesia Tahanea Reef name: reef near west pass

GPS: 16 50.986 S & 144 41.753 W

Date of Survey: June 20, 2010

Your Name: Brian Basura

Time collected: 1340

Weather: Cloudy

Activity: Snorkeling

Sea Temperature: 84 degree Fahrenheit

Coral Number		Color Code L :	D:		Coral Type
1		C2	C4		Br
2		C2	C4		Br
3		C1	C4		Br
4		C1	C4		Br
5		C1	C4		Br
6		C2	C3		Br
7		C2	C3		Br
8		C2	C3		Br
9		C1	C3		Br
10		C1	C3		Br
11		C2	C4		Br
12		C2	C4		Br
13		C2	C4		Br
14		C2	C4		Br
15		C2	C4		Br
16		C2	C3		Br
17		C2	C3		Br
18		D2	D3		Br
19		D2	D3		Br
20		D2	D3		Br

Any relevant
information:

Corals were surveyed on the reef off of the west pass. GPS coordination given.

Average depth of survey was
six feet

Diver selected branch coral for survey only

Observed:

Less variability in coral; more dead coral present; possible due to windward side of
reef

High tide with 75 cm to depth to coral top.

Survey 7

Group Name:
RisingTides

email address: claudiarichardson@rocketmail.com

Participation field: environmental scientist

Country of reef: French Polynesia Tahanea Reef name: reef near west pass

GPS: 16 50.981 S & 144 41.743 W

Date of Survey: June 20, 2010

Weather: Cloudy

Sea Temperature:

Your Name: Claudia
Richardson

Time collected: 1400

Activity: Snorkeling

84 degree Fahrenheit

Coral Number		Color Code L :	D:		Coral Type
1		C2	C4		Br
2		C2	C3		Br
3		D2	D3		Br
4		D2	D3		Br
5		D2	D3		So
6		D3	D4		Br
7		D2	D2		Br
8		D2	D2		Br
9		D2	D4		Br
10		D2	D3		So
11		D2	D3		So
12		C2	C3		Br
13		C2	C2		Br
14		C2	C3		Br
15		C2	C3		Br
16		C2	C3		Br
17		D2	D3		So
18		C2	C3		Br
19		C2	C3		Br
20		C1	C2		Br

Any relevant
information:

Corals were surveyed on the reef off of the west pass. GPS coordination given.

Average depth of survey was
six feet

Any comments or
inquires:

Observed:

One black-tip reef shark approx. 5 feet

High tide with 75 cm to depth to coral top.

Survey 8

Group Name:

RisingTides

email address:

brianb@brianb.org

Participation field: Consultant

Country of reef: French Polynesia Tahanea Reef name: reef near west pass

GPS: 16 50.981 S & 144 41.743 W

Date of Survey: June 20, 2010

Your Name: Brian Basura

Time collected: 1400

Weather: Cloudy

Activity: Snorkeling

Sea Temperature: 84 degree Fahrenheit

Coral Number		Color Code L :	D:		Coral Type
1		D2	D3		Br
2		D2	D3		Br
3		D2	D4		Br
4		D2	D4		Br
5		D1	D4		Br
6		C2	C3		Br
7		C2	C3		Br
8		C2	C3		Br
9		C2	C3		Br
10		D1	D4		Br
11		D2	D3		Br
12		D2	D3		Br
13		D2	D3		Br
14		D2	D3		Br
15		D2	D3		Br
16		D2	D3		Br
17		D1	D2		Br
18		D3	D4		Br
19		D3	D4		Br
20		D1	D2		Br

Any relevant information:

Corals were surveyed on the reef off of the west pass. GPS coordination given.

Average depth of survey was six feet

Any comments or inquires:

Diver selected branch coral for survey only

Observed:

High tide with 75 cm to depth to coral top.

Southeast Tahanea Survey

Survey 1

Group Name: RisingTides
email address:
claudiarichardson@rocketmail.com
Participation field: environmental
consultant

Your Name: Claudia
Richardson

Country of reef: French Polynesia Tahanea
Reef name: coral heads off of southeast Tahanea motus

GPS: 16 58.041S & 144 35.690 W

Date of Survey: June 23, 2010

Time collected: 1230

Weather:

Cloudy

Activity: Snorkeling

Sea

Temperature: 85 degree Fahrenheit

Coral Number	Color Code L :	D:	Coral Type
1	E2	E2	Bo
2	E2	E2	Bo
3	E2	E2	Bo
4	E2	E2	Bo
5	E2	E2	Bo
6	D1	D2	Br
7	D1	D2	Br
8	D1	D2	Br
9	D2	D2	Br
10	D2	D3	Br
11	D2	D3	Bo
12	D2	D3	Bo
13	D2	D2	Bo
14	D2	D2	Bo
15	D2	D2	Bo
16	C2	C2	Pl
17	C3	C3	Pl
18	D2	D3	Br
19	D2	D3	Bo
20	D2	D3	Bo

Any relevant information:

Visibility was excellent; approximately 200 feet

Average depth of survey was four to six feet

Survey 1 observation
continued

Any comments or inquiries:

Survey method: easily identified corals, survey may be repeated
by using coordinates given

Observations for surveys 1 through 3:

2 white tip reef sharks

2 green

morays

2 groupers greater than 30 centimeters

Blue and green burrowing clams up to 15 centimeter

Survey 2

Group Name: RisingTides

Your Name: Brian Basura

email address: Brianb@brianb.org

Participation field: Consultant

Country of reef: French Polynesia

Tahanea

Reef name: coral heads off of southeast Tahanea motus

16 58.041S & 144 35.690

GPS: W

Date of Survey: June 23, 2010

Time collected: 1230

Weather:

Cloudy

Activity: Snorkeling

Sea

Temperature: 85 degree Fahrenheit

Coral Number	Color Code L :	D:	Coral Type
1	E1	E3	Bo
2	E1	E3	Bo
3	E1	E3	Bo
4	E2	E3	Bo
5	D2	D3	Br
6	D1	D2	Br
7	D1	D2	Br
8	D1	D2	Br
9	D1	D2	Br
10	E1	E2	Bo
11	E1	E2	Bo
12	E2	E3	Bo
13	E2	E3	Bo
14	E2	E3	Bo
15	E2	E3	Br
16	B3	B5	Bo
17	E2	E3	Br
18	E2	E3	Br
19	E2	E3	Br
20	E2	E3	Br

Any relevant information:

Visibility was excellent; approximately 200 feet

Average depth of survey six feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated by using coordinates given

Survey 3

Group Name: RisingTides

email address:

claudiarichardson@rocketmail.com

Participation field: RisingTides Crew

Country of reef: French Polynesia Tahanea

Reef name: coral heads off of southeast Tahanea motus

GPS: 16 58.041S & 144 35.690 W

Date of Survey: June 23, 2010

Your Name: Lorraine

Goodwin

Time collected: 1230

Weather:

Cloudy

Activity: Snorkeling

Sea

Temperature: 85 degree Fahrenheit

Coral Number	Color Code L :	D:	Coral Type
1	D1	D4	Br
2	D2	D5	Br
3	D1	D2	Br
4	B1	B3	Br
5	B1	B3	Br
6	B2	B2	Bo
7	B2	B3	Bo
8	D1	D2	Br
9	B2	B2	Bo
10	B1	B2	Bo
11	B1	B2	Bo
12	E1	E2	Br
13	D2	D2	Br
14	D1	D3	Br
15	B2	B2	Bo
16	B2	B2	Bo
17	B2	B2	Bo
18	B2	B2	Bp
19	B2	B2	Bo
20	B2	B2	Bo

Any relevant information:

Visibility was excellent; approximately 200 feet

Average depth of survey was three feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated by using coordinates given

Survey 4

Your Name: Claudia
Richardson

Group Name: RisingTides

email address:

claudiarichardson@rocketmail.com

Participation field: environmental
consultant

Country of reef: French Polynesia Tahanea

Reef name: coral heads off of southeast Tahanea motus

GPS: 16 58.00S & 144 35.558W

Date of Survey: June 24, 2010

Time collected: ---

Weather:

Sunny

Activity: Snorkeling

Sea

Temperature: 85 degree Fahrenheit

Coral Number	Color Code L :	D:	Coral Type
1	D2	D3	Br
2	E3	E4	Bo
3	E2	E3	Bo
4	E2	E3	Bo
5	D2	D3	Br
6	D2	D2	Bo
7	D2	D2	Bo
8	D2	D2	Bo
9	D2	D3	Br
10	D2	D3	Bo
11	D2	D3	Br
12	D2	D2	Bo
13	D2	D3	Br
14	D1	D2	Br
15	B2	B2	Bo
16	B2	B2	Bo
17	B2	B2	Bo
18	D2	D2	Bo
19	D2	D2	Bo
20	D2	D4	Bo

Any relevant information:

Visibility was excellent

Average depth of survey was five feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated
by using coordinates given

Observations:

Survey 5

Your Name: Lorraine
Goodwin

Group Name: RisingTides

email address:

claudiarichardson@rocketmail.com

Participation field: RisingTides Crew

Country of reef: French Polynesia Tahanea

Reef name: coral heads off of southeast Tahanea motus

GPS: 16 58.00S & 144 35.558W

Date of Survey: June 24, 2010

Time collected: ----

Weather:

Cloudy

Activity: Snorkeling

Sea

Temperature: 85 degree Fahrenheit

Coral Number	Color Code L :	D:	Coral Type
1	D2	D2	Br
2	D2	D2	Bo
3	D1	D2	Br
4	B2	B2	Bo
5	D2	D2	Br
6	D1	D2	Br
7	E1	E2	Br
8	D2	D3	Br
9	D2	D3	Br
10	E1	E2	Bo
11	D2	D2	Bo
12	E1	E2	Br
13	D1	D2	Br
14	D2	D2	Bo
15	D1	D2	Bo
16	D1	D1	Br
17	B2	B3	Bo
18	B2	B2	Bo
19	D2	D2	PI
20	D2	D2	PI

Any relevant information:

Visibility was excellent

Average depth of survey was three feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated by using coordinates given

Observations:

Blue and black lipped burrowing clams observed in area

Survey 6

Your Name: Claudia
Richardson

Group Name: RisingTides

email address:

claudiarichardson@rocketmail.com

Participation field: environmental
consultant

Country of reef: French Polynesia Tahanea

Reef name: coral heads off of southeast Tahanea motus

GPS: 16 57.942S & 144 35.486W

Date of Survey: June 24, 2010

Time collected: ---

Weather:

Sunny

Activity: Snorkeling

Sea

Temperature: 85 degree Fahrenheit

Coral Number	Color Code L :	D:	Coral Type
1	D1	D2	Br
2	D1	D2	Br
3	D2	D3	Br
4	D1	D2	Br
5	D2	D4	Br
6	D2	D2	Bo
7	D2	D2	Bo
8	E2	E4	Bo
9	E2	E4	Bo
10	D2	D3	Br
11	D1	D2	Br
12	D2	D3	Br
13	D2	D2	Bo
14	D2	D3	Bo
15	D2	D3	Bo
16	D2	D3	Bo
17	D2	D3	Bo
18	D2	D3	Pl
19	D2	D3	Br
20	D2	D3	Br

Any relevant information:

Visibility was excellent

Average depth of survey was four to five feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated by using coordinates given

Observations:

Survey 7

Group Name: RisingTides

email address:

claudiarichardson@rocketmail.com

Participation field: RisingTides Crew

Country of reef: French Polynesia Tahanea

Reef name: coral heads off of southeast Tahanea motus

GPS: 16 57.942S & 144 35.486W

Date of Survey: June 24, 2010

Your Name: Lorraine

Goodwin

Time collected: ----

Weather:

Cloudy

Activity: Snorkeling

Sea

Temperature: 85 degree Fahrenheit

Coral Number	Color Code L :	D:	Coral Type
1	D2	D2	Bo
2	D1	D2	Br
3	D2	D3	Bo
4	E1	E2	Br
5	D1	D2	Br
6	D1	D2	Br
7	D2	D3	Br
8	D1	D2	Br
9	D2	D2	Bo
10	D1	D2	Bo
11	D1	D2	Br
12	D1	D2	Br
13	D1	D2	Br
14	D1	D2	Br
15	E2	E3	Bo
16	D1	D3	Bo
17	D1	D2	Bo
18	D2	D2	Bo
19	D1	D3	Br
20	D2	D2	Bo

Any relevant information:

Visibility was excellent

Average depth of survey was two to three feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated by using coordinates given

Observations:

Fakarava Surveys

Survey 1

Your Name: Claudia
Richardson

Group Name: RisingTides
email address:
claudiarichardson@rocketmail.com
Participation field: environmental consultant
Country of reef: French Polynesia North
Fakarava
Reef name:
Tetapiri
GPS: 16 03.272S & 145 37.716W
Date of Survey: July 6, 2010
Weather: Partly Cloudy
Sea
Temperature: 85 degree Fahrenheit

Time collected: ---
Activity: Snorkeling

Coral Number	Color Code L :	D:	Coral Type
1	D2	D3	Br
2	D2	D3	Bo
3	D2	D4	Bo
4	D2	D2	Bo
5	D2	D3	Br
6	D2	D4	Br
7	C2	C3	Br
8	C2	C3	Br
9	C2	C3	Br
10	D2	D3	Bo
11	D2	D3	Bo
12	D2	D3	Bo
13	D2	D4	Bo
14	D2	D4	Bo
15	C2	C4	Br
16	D2	D4	Bo
17	D2	D4	Bo
18	D3	D4	Bo
19	D2	D4	Bo
20	C2	C3	Bo

Any relevant information:

Visibility less than 50 feet

Average depth of survey was four to six feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated
by using coordinates given

Reef surveyed mostly barren; silt present

Survey 2

Your Name: Claudia
Richardson

Group Name: RisingTides

email address:

claudiarichardson@rocketmail.com

Participation field: Environmental Consultant

Country of reef: French Polynesia North

Fakarava

Reef name:

Tetapiri

GPS: 16 03.272S & 145 37.716W

Date of Survey: July 6, 2010

Time collected: ---

Weather: Partly Cloudy

Activity: Snorkeling

Sea

Temperature: 85 degree Fahrenheit

Coral Number	Color Code L :	D:	Coral Type
1	C2	C2	Br
2	C2	C3	Br
3	C2	C3	Br
4	D2	D3	Br
5	D1	D4	Br
6	C1	C2	Br
7	C2	C3	Br
8	C2	C3	Br
9	C2	C3	Br
10	C2	C3	Br
11	E2	E2	Bo
12	C2	C4	Br
13	C2	C4	Br
14	C3	C3	Br
15	C3	C3	Br
16	D2	D3	Br
17	D2	D3	Br
18	C2	C3	Br
19	C1	C2	Br
20	C1	C2	Br

Any relevant information:

Visibility less than 50 feet

Average depth of survey was four to six feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated by using coordinates given

Observations: Silt Present

Reef surveyed mostly barren.

Survey 3

Group Name: RisingTides
 email address: brianb@brianb.org
 Participation field: Consultant
 Country of reef: French Polynesia North
 Fakarava
 Reef name: Tetapiri
 GPS: 16 03.272S & 145 37.716W
 Date of Survey: July 6, 2010
 Weather: Partly Cloudy
 Sea
 Temperature: 85 degree Fahrenheit

Your Name: Brian Basura

Time collected: ---
 Activity: Snorkeling

Coral Number	Color Code L :	D:	Coral Type
1	C1	C2	Br
2	C2	C2	Br
3	C2	C2	Br
4	C3	C5	Br
5	E2	E3	Bo
6	C2	C2	Br
7	D3	D4	Br
8	E1	E2	Bo
9	E1	E2	Bo
10	E1	E2	Bo
11	E3	E5	Br
12	C1	C2	Bo
13	D1	D2	Bo
14	D2	D4	Br
15	C3	C3	Br
16	C1	C2	Br
17	C2	C2	Br
18	D2	D2	Br
19	C2	C2	Br
20	C4	C4	Br

Any relevant information:

Visibility less than 50 feet
 Average depth of survey was eight to twelve feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated by using coordinates given
 Reef surveyed mostly barren.
 silt present

Survey 4

Group Name: RisingTides
 email address:
 claudiarichardson@rocketmail.com
 Participation field: RisingTides Crew
 Country of reef: French Polynesia North
 Fakarava
 Reef name: Tetapiri
 GPS: 16 03.272S & 145 37.716W
 Date of Survey: July 6, 2010
 Weather: Partly Cloudy
 Sea
 Temperature: 85 degree Fahrenheit

Your Name: Lorraine
 Goodwin

Time collected: ---

Activity: Snorkeling

Coral Number	Color Code L :	D:	Coral Type
1	C1	C3	Br
2	C1	C3	Br
3	E2	E2	Bo
4	D1	D2	Br
5	D1	D2	Br
6	D2	D2	Br
7	D1	D3	Br
8	D1	D5	Br
9	D2	D5	Br
10	D2	D2	Bo
11	D1	D2	Br
12	D2	D5	Br
13	D2	D2	Br
14	D1	D2	Br
15	E2	E2	Bo
16	D2	D3	Br
17	D2	D2	Bo
18	D1	D5	Br
19	D1	D2	Bo
20	E2	E2	Bo

Any relevant information:

Visibility less than 50 feet

Average depth of survey was two to three feet

Any comments or inquires:

Survey method: easily identified corals, survey may be repeated by using coordinates given

Reef surveyed mostly barren;

sea cucumber observed

silt present

