

Appendix B: The NCRMP Survey Instrument

OMB SUBMISSION

NOAA Coral Reef Conservation Program
National Coral Reef Monitoring Program (NCRMP)
Resident Coral Reef Survey
OMB Control Number 0648-0646

****Hawai'i Survey****

Survey conducted in (circle one): *English*

Introduction: *[greeting specific to jurisdiction]*

Hello, my name is [interviewer name]. I'm calling from [CONTRACT COMPANY] on behalf of the National Oceanic and Atmospheric Administration (NOAA) and the National Coral Reef Monitoring Program. We are interested in obtaining your opinions on important issues related to coral reefs in Hawai'i. You were selected because you live in a coastal area near coral reefs.

This survey is being conducted in accordance with the Privacy Act of 1974 and the Paperwork Reduction Act. Your participation is voluntary, your answers are confidential and you can stop the interview at any time. The interview is expected to take less than 20 minutes. If you have questions or would like to know more about the survey I will provide you with contact information.

Notwithstanding any other provisions of the law, no person is required to respond to, nor shall any person be subjected to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number. The OMB Control number for this survey is 0648-0646

The 20 minute estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Please send comments regarding this burden estimate or any other suggestions for reducing this burden to Peter Edwards, National Oceanic and Atmospheric Agency, National Ocean Service, Coral Reef Conservation Program, (1305 East West Highway, Silver Spring, MD, 20910, USA).

1. Are you at least 18 years of age?

IF "YES" CONTINUE TO SCREENING QUESTION 2. IF "NO", END SURVEY.

2. Do you live in Hawai'i at least 3 months of the year?

IF "YES" CONTINUE WITH QUESTION #1 OF THE SURVEY.

Now that we have established that you are qualified, we will continue with the survey. Remember that you can stop at any time.

PARTICIPATION IN REEF ACTIVITIES

1. How often do you usually participate in each of the following activities?

	Never	Once a month or less	2-3 times a month	4 times a month or more	No Response
Swimming/wading					
Snorkeling					
Diving (SCUBA or free diving)					
Waterside/ beach camping					
Beach recreation (land based beach sports, picnics)					
Boating					
Wave riding (surfing, stand up paddle boarding, body boarding)					
Canoeing/kayaking					
Fishing (for finfish)					
Gathering of marine resources (non-fish such as lobsters, octopus, opihi, seaweed)					

SKIP PATTERN-- If respondent answers 'never' to BOTH fishing AND gathering of marine resources, then skip to #3:

CORAL REEF RELIANCE / CULTURAL IMPORTANCE OF REEFS

2. How often do you fish or harvest marine resources for each of the following reasons?

	Frequently	Sometimes	Rarely	Never	No Response
To feed myself and my family/ household					
To sell [INTERVIEWER CAN PROMPT: "or for work" to include fishing/harvesting as part of employment]					

	Frequently	Sometimes	Rarely	Never	No Response
To give to extended family members and/or friends					
For fun					
For special occasions and cultural purposes/events					

3. How often does your family eat fish/seafood?

- a. Every day
- b. A few times a week
- c. About once a week
- d. 1-3 times a month
- e. Less than once a month
- f. Never

4. What are the two main sources of the fish and seafood that you and your family eats?

- a. Purchased by myself or someone in my household at a store or restaurant
- b. Purchased by myself or someone in my household at a market or roadside vendor
- c. Caught by myself or someone in my household
- d. Caught by extended family members
- e. Caught by friends or neighbors
- f. Other, please specify _____
- g. Not Sure
- h. Refused

PERCEIVED RESOURCE CONDITION

5. In your opinion, how are Hawai'i's marine resources currently doing? Please rank from very bad to very good.

	Very Bad	Bad	Neither Bad nor Good	Good	Very Good	Not sure
Ocean Water Quality (clean and clear)						
Amount of Coral						
Number of Fish						
Diversity of fish						

	Very Bad	Bad	Neither Bad nor Good	Good	Very Good	Not sure
Size of fish						

6. How would you say the condition of each of the following has changed over the last 10 years: from 1=it has gotten a lot worse to 5=it has gotten a lot better.

	A lot Worse	Somewhat Worse	No Change	Somewhat Better	A lot Better	Not Sure
Ocean Water Quality (clean and clear)						
Amount of Coral						
Number of Fish						
Diversity of fish						
Size of fish						

7. In the next 10 years, do you think the condition of the marine resources in Hawai'i will get worse, stay the same or improve?

- Get worse
- Stay the same
- Improve
- Not sure

AWARENESS AND KNOWLEDGE OF CORAL REEFS

8. Please say whether you disagree or agree with each of the following statements.

	Strongly Disagree	Disagree	Neither	Agree	Strongly Agree	Not Sure
Coral reefs protect the Hawai'i from erosion and natural disasters.						
Coral reefs are only important to fishermen, divers and snorkelers.						
Healthy coral reefs attract tourists to Hawai'i.						

	Strongly Disagree	Disagree	Neither	Agree	Strongly Agree	Not Sure
Coral reefs are important to Hawaiian culture.						

9. How familiar are you with each of the following potential threats facing the coral reefs in Hawai'i?

	Very Unfamiliar	Unfamiliar	Neither Familiar nor Unfamiliar	Familiar	Very Familiar	Not sure
Climate change						
Coral bleaching						
Hurricanes and other natural disasters						
Pollution (stormwater, wastewater, chemical runoff and trash/littering)						
Increased coastal/urban development						
Invasive species						
Too much fishing and gathering						
Damage from ships and boats						
<i>Impacts from recreational activity (examples include trampling of reefs, anchor damage)</i>						
<i>Ocean acidification</i>						

10. Do you believe that the threats to coral reefs in Hawai'i are:

- a. Extreme
- b. Large
- c. Moderate
- d. Minimal
- e. None
- f. Not sure

AWARENESS OF CORAL RULES AND REGULATIONS

11. A Marine Managed Area is an area of the ocean where human activity is typically restricted to protect living, non-living, cultural, and/or historic resources. Examples in

Hawai'i include marine life conservation districts, fisheries management areas, and community based subsistence fishing areas. How familiar are you with Marine Managed Areas?

- a. Very Unfamiliar
- b. Unfamiliar
- c. Neither Unfamiliar nor Familiar
- d. Familiar
- e. Very Familiar
- f. Not sure

ATTITUDES TOWARDS CORAL REEF MANAGEMENT STRATEGIES AND ENFORCEMENT

12. The following are common strategies used to manage the marine environment. We are interested in your opinion about the use of these strategies for the protection of coral reefs in Hawai'i. Please indicate how much you disagree or agree with each of the following:

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
Better regulation of land use practices to prevent sediment from going to sea						
Catch limits per person for certain fish species (size and amount)						
Seasonal openings/closures of fisheries						
Gear restrictions for fishing						
Better treatment of wastewater						
Improved law enforcement for existing rules/regulations						
Community participation in marine management						
Ocean zoning						
Designating marine managed areas						
Limited use for recreational activities (examples include diving, snorkeling, boating)						
No-take zones						
Establishment of a non-commercial fishing license						

PARTICIPATION IN BEHAVIORS THAT MAY IMPROVE CORAL CONDITION

13. How often do you participate in any activity to protect the environment (for example, beach clean ups, volunteering with an environmental group, recycling)?

- a. Not At All
- b. Once a year or Less
- c. Several times a year
- d. At least once a month
- e. Several Times a Month or more
- f. Not Sure

14. Which of the following would you consider to be your top 3 sources of information about coral reefs and the environment in Hawai'i?

Interviewer checks the top 3 sources of information in box below.

15. To what degree do you trust each of your top rated sources of information to provide you the most accurate information on coral reefs and coral reef related topics in Hawai'i?

Respondent rates only the top 3 sources of information in box below.

Top 3	Sources	Very untrustworthy	Untrustworthy	Neither Trustworthy nor Untrustworthy	Trustworthy	Very Trustworthy	Not sure
	Newspapers, other print publications						
	Radio						
	TV						
	Internet						
	Friends and family						
	Community leaders						
	Religious leaders						
	Government (jurisdictional)						
	Federal government agencies (NOAA, EPA)						
	Non-profit organizations						
	Other						

16. How involved is your local community in protecting and managing coral reefs?

- a. Not at all involved
- b. Somewhat involved
- c. Moderately involved
- d. Involved
- e. Very involved
- f. Not sure

17. In thinking about the previous question, how would you briefly define “your local community”? [*open ended*] _____

18. How involved are you in making decisions related to the management of coral reefs in Hawai‘i?

- a. Not at all involved
- b. Slightly involved
- c. Moderately involved
- d. Involved
- e. Very involved
- f. Not sure

DEMOGRAPHICS

19. Are you male or female?

- a. Male
- b. Female

20. What is your year of birth? _____

21. How long have you lived in Hawai‘i?

- a. 1 year or less
- b. 2-5 years
- c. 6-10 years
- d. more than 10 years [but less than all my life]
- e. all my life

22. Including your primary language, please name each language you speak.

- a. English
- b. Spanish
- c. French
- d. Ilocano
- e. Vietnamese
- f. Chinese
- g. Japanese
- h. Korean
- i. Tagalog
- j. Hawaiian
- k. Hawaii Pidgin English
- l. Sāmoan
- m. Chamorro
- n. Carolinian
- o. Tongan
- p. Other: Please list _____
- q. No Response

23. What race/ethnicity do you consider yourself?

- a. White
- b. Native Hawaiian
- c. Chinese
- d. Japanese
- e. Filipino
- f. Korean
- g. Vietnamese
- h. Other Asian _____
- i. Micronesian (includes Chuukese, Kasraean, Marshallese, Palauan, Pohnpeian, Yapese, Carolinian, Chamorro, and others)
- j. Samoan
- k. Tongan
- l. Other Pacific Islander _____
- m. Black or African American
- n. American Indian or Alaskan Native
- o. Hispanic or Latino
- p. Other
- q. No response

24. What is the highest level of education you have completed?
- a. 8th Grade or Less
 - b. Some high school
 - c. High School Graduate, GED
 - d. Some college, community college or AA
 - e. College Graduate
 - f. Graduate School, Law School, Medical School
 - g. No Response
25. What is your current employment status?
- a. Unemployed
 - b. Student
 - c. Employed full-time
 - d. Homemaker
 - e. Employed part-time
 - f. Retired
 - g. None of the above: Please specify _____
 - h. No Response
26. What is your occupation? [**open ended**] _____
27. May I ask, what is your annual household income?
- a. Under \$10,000
 - b. \$10,000-19,999
 - c. \$20,000-29,999
 - d. \$30,000-39,999
 - e. \$40,000-49,999
 - f. \$50,000-59,999
 - g. \$60,000-74,999
 - h. \$75,000-99,999
 - i. \$100,000-149,999
 - j. \$150,000 or More
 - k. No Response

THANK YOU FOR YOUR TIME

If you would like a copy of the results, please provide us with your mailing address or email address (write on separate contact sheet that is not linked to survey answers).

Do you have questions or comments for which you would like me to provide our contact information?