

SOCIAL SCIENCE PROGRAM

Socioeconomic Survey: CORE Questions Template

National Coral Reef Monitoring Plan

November 2014

The National Oceanic and Atmospheric Administration (NOAA) Coral Reef Conservation Program (Coral Program) is sponsoring the National Coral Reef Monitoring Plan (NCRMP) for biological, physical, and socioeconomic monitoring throughout the U.S. Pacific, Atlantic, and Caribbean coral reef areas. The overarching goal of this effort is to collect the information needed to gauge changing conditions of U.S Coral reef ecosystems over time. For more information:

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The main purpose of the <u>Socioeconomic Component</u> of NCRMP is to answer the following questions: What is the status of human knowledge, attitudes, and perceptions regarding coral reefs? And, how are human uses of, interactions with, and coral dependence on coral reefs changing over time?

To answer these questions a set of key socioeconomic indicators were developed through an iterative process by a team of social and biological scientists. Guided by these indicators, a bank of over 120 questions was then created and subsequently approved by the Office of Management and Budget (OMB) for use in data collection via individual and household surveys. For more information on the social science component of NCRMP visit: http://www.coris.noaa.gov/activities/projects/ncrmp socio/.

This document contains a set of <u>core questions</u>, taken from the question bank and transformed into jurisdiction specific surveys for administration across all seven U.S. coral reef jurisdictions. They are repeated across all surveys for comparison with more jurisdiction specific questions added as needed. This core set of questions can however be incorporated into any other site/country specific survey efforts if appropriate. Individuals, organizations and institutions who may be interested in their own socioeconomic monitoring efforts as part of natural resource management of coral reef and other coastal ecosystems are encouraged to use these questions as part of their own survey development. It is hoped that if researchers are asking one or more identical questions across several locations, over time, there may be opportunities for useful comparisons of data. These questions are designed specifically for U.S coral reef Jurisdictions but may be applicable to <u>any</u> other (including non-US) tropical/coral reef jurisdiction.

Details and access to the full set of survey bank questions will be provided at a later date but researchers are encouraged to use the template provided on the following pages as a starting point for developing their questionnaires. For additional information and guidance on socioeconomic monitoring of coastal communities can be found at www.socmon.org.

For further details please contact: Peter Edwards (<u>peter.edwards@noaa.gov</u>) Economist and Social Science Coordinator, NOAA, Coral Reef Conservation Program

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

CORE MODULE

Hello,
My name is We are only interested in obtaining your opinions on some important issues related to coral reefs and the environment in
Your participation is voluntary and will be kept strictly confidential. 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 [optional depending on agency- subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number].
Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.
Send comments regarding this burden estimate or any other suggestions for reducing this burden to Jane/John Diploria, Marine Conservation Organization X, (137 Acropora Cervicornis Boulevard, Ocean Town).

Please note: this survey can be administered using different modes, ie; in-person, telephone interview, self administered paper (mail) or online versions.

Researchers can adjust question order, skip patterns and interviewer prompts as required. The amount of questions and type of answer format may affect overall time and burden on the respondent.

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 Answer
Swimming/wading					
Snorkeling					
Diving (SCUBA or free diving)					
Waterside/ beach camping					
Beach recreation (beach sports, picnics)					
Boating					
Fishing					
Gathering of marine resources (lobsters, conch, seaweed, examples)					

SKIP PATTERN-- If respondent answers 'never' to 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					
To give to extended family members and/or friends					
For fun					
For special occasions and cultural events					

- 3. How often do you or 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

SKIP PATTERN -- If respondent answers 'never' then skip to question #5

- 4. Where do you get the fish or seafood 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. Other, please specify _____

PERCEIVED RESOURCE CONDITION

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

	Very Bad	Bad	Neither Bad nor Good	Good	Very Good	Don't Know
Ocean Water Quality (clean and clear)						
Amount of Coral						
Number 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						

- 7. In the next 10 years, do you think the condition of the marine resources in [jurisdiction] will get worse, stay the same or improve?
 - a. Get worse
 - b. Stay the same
 - c. Improve
 - d. Not sure

AWARENESS AND KNOWLEDGE OF CORAL REEFS – Threats including climate change

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 [jurisdiction] from erosion and natural disasters.						
Coral reefs are only important to fishermen, divers and snorkelers.						
Healthy coral reefs attract tourists to [jurisdiction].						
Coral reefs are important to [jurisdiction] culture.						

9. How familiar are you with each of the following potential threats facing the coral reefs in <location>?

	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)						
Coastal/urban development						
Invasive species						
Too much fishing and gathering						
Damage from ships and boats						

- 10. Do you believe that the threats to coral reefs in <location> are:
 - a. Extreme
 - b. Large
 - c. Moderate
 - d. Minimal
 - e. None
 - f. Not sure

ATTITUDES TOWARDS CORAL REEF MANAGEMENT STRATEGIES AND ENFORCEMENT

- 11. A Marine Protected Area is an area of the ocean where human activity is typically restricted to protect living, non-living, cultural, and/or historic resources. How familiar are you with Marine Protected Areas (MPAs)?
 - a. Very Unfamiliar
 - b. Unfamiliar
 - c. Neither Unfamiliar nor Familiar
 - d. Familiar
 - e. Very Familiar
 - f. Not sure

SKIP PATTERN-- If respondent answers 'Very unfamiliar' or 'Unfamiliar', then skip to #12:

12. Please indicate how much you disagree or agree with each of the following statements.

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
MPAs protect coral reefs						
MPAs increase the number of fish						
There should be fewer MPAs in [jurisdiction]						
There should be more MPAs in [jurisdiction]						
There has been economic benefit to [jurisdiction] from the establishment of MPAs						
Fishermen's livelihoods have been negatively impacted from the establishment of MPAs in [jurisdiction]						
MPAs help increase tourism in [jurisdiction]						
The establishment of MPAs increases the likelihood that people will vacation in [jurisdiction]						
I would support adding new MPAs in [jurisdiction] if there is evidence that the ones we have are improving [jurisdiction's] marine resources						
I generally support the establishment of MPAs						

ATTITUDES OR LEVEL OF SUPPORT FOR CORAL REEF MANAGEMENT STRATEGIES

13. The following are proposed or existing management strategies used to manage the marine environment and specifically, to improve the protection of coral reefs in <location>. Please rate whether you oppose or support each regulation.

	Strongly Oppose	Oppose	Neither Support nor Oppose	Support	Strongly Support	Don't Know
Increased enforcement of existing rules/regulations						
Limits per person for certain fish species (size and amount)						
Stricter control of sources of pollution to preserve water quality						
More restrictions on construction practices to prevent sediment going to sea						
Limits on recreational use						

PARTICIPATION IN BEHAVIORS THAT MAY IMPROVE CORAL HEALTH

- 14. 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
- 15. Which of the following would you consider to be your top 3 sources of information about coral reefs and the environment in [jurisdiction]?

Interviewer checks the top 3 sources of information.

16. 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 [jurisdiction]? **Respondent rates only the top 3 sources of information.**

Top 3	Sources	Very untrustworthy	Untrustworthy	Neither Trustworthy nor Untrustworthy	Trustworthy	Very Trustworthy	Very Trustworthy
	Newspapers, other print publications						
	Radio						
	TV						
	Internet						
	Friends and family						
	Community leaders						
	Government (jurisdictional)						
	Federal government agencies (NOAA, EPA)						
	Non-profit organizations						
	Other						

- 17. How involved is the 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
- 18. How involved are you in making decisions related to the management of coral reefs in [jurisdiction]?
 - a. Not at all involved
 - b. Slightly involved
 - c. Moderately involved
 - d. Involved
 - e. Very involved
 - f. Not sure

DEMOGRAPHICS

I just have a few more questions that will help us to interpret our results. As a reminder, the information you provide is completely <u>confidential</u>.

19. Are you r a. M b. Fe			
20. What is y	our year of birth?	<u> </u>	
a. 1 yea	have you lived in [jurisdiction]?		
b. 2-5 ye			
c. 6-10 y	than 10 years		
e. all my			
_	your primary language, please nam viewer should not read options below		•
a.	English	m.	Hawaiian
b.	Spanish	n.	Hawaii Pidgin English
c.	French	0.	Sāmoan
d.	German	p.	Chamorro
e.	Italian	q.	Carolinian
f.	Portuguese	r.	Creole
g.	Arabic	S.	Crucian
h.	Chinese	t.	Tongan
i.	Japanese	u.	Other: Please list
j.	Korean		
k.	Tagolog	V.	No Response
l.	Hindi		
23. What rac	e/ethnicity do you consider yourself	f?	
a.	American Indian or Alaskan	f.	Chamorro
	Native	g.	Chinese
b.	Asian	_	Cuban
c.	Black or African American	i.	Filipino
	Puerto Rican	j.	Japanese
e.	Carolinian	•	White

		m. Mexican	r.	Tongan
		n. Native Hawaiian or other	s.	Vietnamese
		Pacific Islander	t.	Other/Mixed
		o. Samoan	u.	No response
		p. Taino	٧.	Hispanic or Latino
24.	What	is the highest level of education you have comple	ted?	
	a.	8th Grade or Less		
		Some high school		
		High School Graduate, GED		
		Some college, community college or AA		
	e.	College Graduate		
	f.			
	g.	No Response		
25.	What	is your current employment status?		
	a.	Unemployed		
		Student		
		Employed full-time		
		Homemaker		
		Employed part-time		
		Retired		
		None of the above: Please specify		
	h.	No Response		
26	5. What	is your occupation? [Open Ended]		
27	7. May I	ask, what is your annual household income?		
	a.	Under \$10,000		
		\$10,000-19,999		
		\$20,000-29,999		
	d.	\$30,000-39,999		
		\$40,000-49,999		
	f.	\$50,000-59,999		
	g.	\$60,000-74,999		
	h.			
	i.	\$100,000-149,999		
	j.	\$150,000 or More		

q. Thai

l. Korean

k. No Response

Other important information that should be included as part of the survey instrument:

The text(s) outlined below are particularly relevant for any survey/data collection effort for by OR conducted on behalf of US Federal Agencies. They should be included where appro			
Public reporting burden for this collection of information is estimated to average 25-30 minutes per respondent, including the time for reviewing instructions, searching existing da	ta		

appropriate number of questions should be selected so as not to exceed the public burden of 30

minutes]

Send comments regarding this burden estimate or any other suggestions for reducing this burden to (name), XYZ office, (address). [This is required information as part of the questionnaire, usually at the end]

sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. [This means when developing each specific questionnaire the

[A Statement on confidentiality, if applicable, should be inserted at the end unless already provided elsewhere on the form]. 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 XXXX-XXXX.

Groupings of Survey Categories and Descriptions as per NCRMP Survey Bank

Question Number	Category	Description
1-13	Attitude toward / importance of coral reefs	Importance of coral reef aspects, including willingness to pay for coral reef protection, and satisfaction with the state of coral reefs over time
14-28	Participation in coral reef activities	Frequency of participation in coral reef activities, including activities conducted at the coral reef jurisdiction and how deterioration of coral reef conditions could affect participation in these activities
29-35	Perceived threats to coral reefs	Perceived threats in coral reef jurisdiction, including familiarity with common threats to coral reefs and perception on their potential impact
36-48	Marine Protected Areas	Familiarity with Marine Protected areas (MPAs), including perceived purpose, benefits and impact, and effect on coral reef activities
49-66	Resource conditions of coral reefs	Perception of the condition of coral reefs over time, and willingness to accept actions such as limited access, increased restrictions on coral reef activities (e.g. fishing, boating), more stringent pollution regulation, and statutes limiting development
67-73	Coral reef changes since establishment of MPAs	Perceived changes since the introduction of MPAs and impact of these changes on personal use of coral reef areas
74-81	Knowledge of rules/regulations	Knowledge of applicable regulations and restrictions to coral reef activities in MPA, and knowledge/perceptions on the effectiveness of traditional or cultural methods for managing resources
82-85	Compliance with rules/regulations	Perception on level of compliance with regulations related coral reefs (e.g. by fishers, divers, local population, tourists), perception of enforcement levels, and rationale to follow coral reef regulations
86-100	Coral reef management processes	Level of support towards environmental causes, including donations, volunteering activities, and involvement in activities related to the management of coral reefs. Perceptions on the success of coral reef strategies and regulations and the roles of the Federal, local government, and local communities to protect coral reefs
101-104	Support for management processes and regulations	Perception on the success of different actors and regulation to address problems in coral reef areas. Level of support towards specific regulations and measures aimed to protecting coral reefs.
105-109	Sources of information available	Identification of most relevant sources of information about coral reefs (e.g. newspapers, radio, brochures, NOAA publications, etc.), and level of trust in information sources
110-119	Coral reef financial reliance	Reliability of coral reefs as a personal source of food or income, including involvement on commercial fishing activities and their impact on personal income
120-138	Demographic questions	Generic demographic information to facilitate the categorization and analysis of the responses. Information includes family members, age, gender, education, occupation, household income, place of residence, race, languages, religious affiliation, and membership in community groups