



Coral Reefs Conservation Survey Categories

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



CATEGORY 1: Attitude Toward/Importance of Coral Reefs

Q1. *How important are the following aspects of coral reefs?*

	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
The reef is not too far from my access point						
The reef is near a breakwater						
Getting to reefs is safe						
Reefs are large						
The reef is in deep water						
The reef is in shallow water						
Reefs are of good quality						
Large amount of live coral at the reefs						
Low amount of algae cover at the reef						
Clear water is readily available (i.e., high visibility)						
Low level of pollution near the reefs						
Fish are abundant at the reefs						
Reef has a variety of types of fish (i.e., diversity)						
Reef has a variety of sizes of fish						
Invertebrates (e.g., lobster, conchs, sea cucumbers) are abundant						
Reef has a variety of invertebrates						
Other sea life (e.g., manatees, whales, dolphins, sea turtles) is abundant						
That reefs are in designated protected area						
It is safe to swim near reef						
The reef is not too overcrowded with people						
No boating restrictions at the reef						
Stringent fishing regulations at the reef						
Environmental protection of coral reefs						



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	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Environmental protection of mangroves						
Environmental protection of seagrasses						
Protection of endangered species						
Other, not mentioned, specify:						

Q2. To what degree would you be willing to do to each of the following in order to protect and maintain the coral reefs in <location>?

	Would Not Do	Would Consider	Would Do	Not Sure
Pay more to participate in reef related activities like snorkeling and diving				
Donate money or items (e.g. used boat, computer) to an organization working to protect the reef				
Pay higher local <location> taxes				
Pay higher state taxes				
Pay higher federal taxes				
Volunteer with an organization once a year that is working to protect the reefs (e.g. participate in coastal clean up)				
Volunteer with an organization more than once a year that is working to protect the reefs				

Q3. Would you be willing to donate money in order to protect the reefs?

1. Yes
2. No

Q4. How much money would you be willing to donate at least once in order to protect the reefs?

1. Nothing
2. Less than \$50
3. \$50 – \$100



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- 4. \$101 - \$250
- 5. \$251 - \$500
- 6. More than \$500
- 7. Not sure

Q5. How often would you be willing to donate in order to protect the reefs?

- 1. Once
- 2. Once a year
- 3. More than once a year

Q6. How much money would you be willing to donate annually in order to protect the reefs?

- 1. Nothing
- 2. Less than \$50
- 3. \$50 – \$100
- 4. \$101 - \$250
- 5. \$251 - \$500
- 6. More than \$500
- 7. Not sure

Q7. Please rate the extent to which you agree/disagree with each of the following statements.

	Strongly Disagree	Disagree	Neither	Agree	Strongly Agree	Not Sure
Coral reefs are important for protecting the coast from erosion and natural disasters.						
Coral reefs are critical components of our natural ecosystem						
Mangroves are not important for protecting the coast from erosion.						
Coral reefs are only important if you fish or dive.						
We should restrict fishing in certain areas to allow the fish and coral to grow.						
We should restrict development in certain areas to protect						



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	Strongly Disagree	Disagree	Neither	Agree	Strongly Agree	Not Sure
the natural environment.						
Establishing size restrictions to regulate fishing is a good management practice.						
There are no problems with water quality at coral reefs.						
Diving and snorkeling are not harmful to coral reefs.						
Mooring buoys that reduce the use of anchors have a positive effect on the marine environment.						
Coral reefs provide coastal protection from storm surge associated with tropical hurricanes and typhoons.						
Large coral reef barrier systems can help reduce the impacts of tsunamis.						
Coral reefs cannot be restored once damage occurs						
Coral reefs provide sustainable resources that support the development of coastal communities						
Sediment runoff from land activities such as construction and development can harm coral reefs						
Pesticides and herbicides used in commercial and residential activities can be carried by runoff and affect coral reefs						
Coral reefs have an important role in our culture						
Effects from climate change can severely affect coral reefs						
Pathogens, like some type of fungus, can affect the health of coral reefs						
Eliminating some species, like sea urchins, can affect the ecological dynamics of coral reefs						
Oil spills can affect or destroy coral reefs						
Grounding of ships on coral reef can cause long term damage						
Offshore aquaculture farms located in coral reefs are harmful to the coral reefs						
Coral reefs can be a source of new substances that may be used to develop new medicines						



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Q8. Please indicate how important each of the following factors is in terms of deciding whether or not you would choose to visit a specific coral reef.

	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Clear water (high visibility)						
Quality of the reef						
Abundance of fish at the reef						
Types of fish at the reef (i.e., diversity)						
Size of fish at the reef						
Amount of live coral at the reef						
Size of the reef						
Abundance of other sea life (e.g., manatees, whales, dolphins, sea turtles, invertebrates)						
Whether the reef is a specially protected area						
Amount of algae cover on the reef						
Difficulty of the conditions for participating in recreational activities on the coral reef						
Distance from my shore access point to the reef						
Ease of getting to the reef						
Adequacy of my boat to get to the reef						
Mooring buoys near coral reefs						
Level of crowding at the reef						
Seasonal or rotational closures at desirable reef locations						
Restrictions on fishing						
Presence of other groups that I don't like						
Amount of pollution near the reef						
Safety of swimming near reef						
Fish catch per trip to reef						
Whether or not a particular commercial charter boat goes to the reef						
Ease of finding a charter/ company to go to the reef						



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	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Cost to get to the reef						
Opportunities to participate in coral reef activities at the reef						
The information available about the reef						
Availability of protected calm waters						
Availability of shore-side support facilities (e.g. dive shops, piers, hospitals, recompression chambers)						
Absence of dangerous animals (e.g., sharks, jellyfishes)						
Water at the reef is deep						
Occurrence of unusual features (e.g., underwater caves, ship wrecks)						
Opportunities to do other aquatic activities (e.g. surfing)						
Other: Please list						



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Q9. How satisfied were you with the each of the following items on your last trip to <a coral reef>?

	Very Unsatisfied	Unsatisfied	Neither Satisfied nor Unsatisfied	Satisfied	Very Satisfied	Not Sure
Clear water (high visibility)						
Quality of the reef						
Abundance of fish at the reef						
Types of fish at the reef (i.e., diversity)						
Size of fish at the reef						
Amount of live coral at the reef						
Size of the reef						
Abundance of other sea life (e.g., manatees, whales, dolphins, sea turtles, invertebrates)						
Whether the reef is a specially protected area						
Amount of algae cover on the reef						
Difficulty of the conditions for participating in recreational activities on the coral reef						
Distance from my shore access point to the reef						
Ease of getting to the reef						
Adequacy of my boat to get to the reef						
Mooring buoys near coral reefs						
Level of crowding at the reef						
Seasonal closures at desirable reef locations						
Presence of other groups that I don't like						
Amount of pollution near the reef						
Safety of swimming near reef						
Fish catch per trip to reef						
Whether or not a particular commercial charter boat goes to the reef						
Ease of finding a charter/ company to go to the reef						
Cost to get to the reef						



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	Very Unsatisfied	Unsatisfied	Neither Satisfied nor Unsatisfied	Satisfied	Very Satisfied	Not Sure
Opportunities to participate in coral reef activities at the reef						
The information available about the reef						
Availability of protected calm waters						
Availability of shore-side support facilities (e.g. dive shops, piers, hospitals, recompression chambers)						
Absence of dangerous animals (e.g., sharks, jellyfishes)						
Water at the reef is deep						
Occurrence of unusual features (e.g., underwater caves, ship wrecks, overhangs, walls)						
Opportunities to do other aquatic activities (e.g. surfing, windsurfing)						
Other: Please list						



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Q10. Where was your last trip to <a coral reef>? [Open Ended]

Q11. In thinking about a trip to that same reef <# of years> years ago, how satisfied were you then with the same items.

	This was my First Trip	Very Unsatisfied	Unsatisfied	Neither Satisfied nor Unsatisfied	Satisfied	Very Satisfied	Not Sure
Clear water (high visibility)							
Quality of the reef							
Abundance of fish at the reef							
Types of fish at the reef (i.e., diversity)							
Size of fish at the reef							
Amount of live coral at the reef							
Size of the reef							
Abundance of other sea life (e.g., manatees, whales, dolphins, sea turtles)							
Whether the reef is a specially protected area							
Amount of algae cover on the reef							
Difficulty of the conditions for participating in recreational activities on the coral reef							
Distance from my shore access point to the reef							
Ease of getting to the reef							
Adequacy of my boat to get to the reef							
Mooring buoys near coral reefs							
Level of crowding at the reef							
Seasonal closures at desirable reef locations							
Presence of other groups that I don't like							
Amount of pollution near the reef							
Safety of swimming near reef							
Fish catch per trip to reef							
Whether or not a particular commercial charter boat							



	This was my First Trip	Very Unsatisfied	Unsatisfied	Neither Satisfied nor Unsatisfied	Satisfied	Very Satisfied	Not Sure
goes to the reef							
Ease of finding a charter/ company to go to the reef							
Cost to get to the reef							
Opportunities to participate in coral reef activities at the reef							
The information available about the reef							
Availability of protected calm waters							
Availability of shore-side support facilities (e.g. dive shops, piers, decompression chambers)							
Absence of dangerous animals (e.g., shark, jellyfishes)							
Water at the reef is deep							
Occurrence of unusual features (e.g., underwater caves, ship wrecks)							
Opportunities to do other aquatic activities (e.g. surfing)							
Other: Please list							

Q12. How important are coral reefs to your culture?

1. Very Unimportant
2. Unimportant
3. Neither Important nor Unimportant
4. Important
5. Very Important
6. Not Sure

Q12a. Please explain [Open Ended]

Q13. How important are coral reefs to your way of life?

1. Very Unimportant
2. Unimportant



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3. Neither Important nor Unimportant
4. Important
5. Very Important
6. Not Sure



CATEGORY 2: Participation in Coral Reef Activities

Q14. How often do you participate in each of the following activities?

	Never	Once a Year or Less	A Few Times a Year	At Least Once a Month	2 to 3 Times a Month	Once a Week	Several Times a Week	Every Day	No Answer
Invertebrate harvesting									
Harvesting of mangrove resources									
Coral harvesting									
Seaweed harvesting									
Spear fishing									
Fish collecting									
Sport fishing									
Cast net-fishing									
Gillnet, surround net and drag net-fishing									
Trap fishing									
Pole/line fishing									
Other kind of fishing: Please list									
Interacting w dolphins									
Swimming/wading									
Snorkeling									
Outrigging									
Paddling									
Beach sports									
Diving (SCUBA)									
Boarding (surfing, kitesurfing, SUP, body-surfing, body-boarding)									
Jet-ski/thrill-craft									
Water sports/water skiing/wake boarding									
Pleasure boating									
Sailing									
Kayaking									
Canoe/wa'a									
Glass bottom boating									
Underwater photography									
Waterside camping									
Beach recreation, BBQ, picnic									



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	Never	Once a Year or Less	A Few Times a Year	At Least Once a Month	2 to 3 Times a Month	Once a Week	Several Times a Week	Every Day	No Answer
Walking/Hiking/Running around the reef									
Collecting herbal medicines									
Bird watching									
Beach clean up									
Hunting									
Mountain biking									
Other activities: Please list									

Q15. Which of the following activities did you participate in at <location>? (Please check all you have done)

- | | |
|---|------------------------------------|
| 1. Invertebrate harvesting | 17. Pleasure boating |
| 2. Harvesting of mangrove resources | 18. Sailing |
| 3. Spear fishing | 19. Kayaking |
| 4. Fish collecting | 20. Canoe/wa'a |
| 5. Sport fishing | 21. Glass bottom boating |
| 6. Net-fishing | 22. Underwater photography |
| 7. Trap fishing | 23. Waterside camping |
| 8. Other kind of fishing: Please list | 24. Beach recreation, BBQ, picnic |
| 9. Sand/coral extraction | 25. Walking/Hiking/Running |
| 10. Interacting w dolphins | 26. Collecting Herbal Medicines |
| 11. Swimming/wading | 27. Bird watching |
| 12. Snorkeling | 28. Beach Clean up |
| 13. Diving (SCUBA) | 29. Hunting |
| 14. Boarding (surfing, kitesurfing, SUP, body-surfing, body-boarding) | 30. Seaweed harvesting |
| 15. Jet-ski/thrill-craft | 31. Other activities: Please list. |
| 16. Water sports/water skiing | 32. None |



Q16. To what extent do you do these activities on natural and/or artificial reefs?

1. Always on natural reefs
2. Mostly natural reefs, but some on artificial reefs
3. Varies between both natural and artificial reefs
4. Mostly on artificial reefs, but some on natural reefs
5. Always on artificial reefs
6. Not sure

Q17. How many other people participated in <activity> with you? ____#

**Q18. In which of the coral reefs in the area did you do these activities?
List reef options for the specific location**

Q19. Which coral reefs do you visit most often to participate in each of activities selected? List reef options for the specific location

Q20. Please select which (if any) activity was the main reason for your visit to <location>. (Please select no more than 2).

- | | |
|---|------------------------------------|
| 1. Invertebrate harvesting | 17. Pleasure Boating |
| 2. Harvesting of Mangrove resources | 18. Sailing |
| 3. Spear fishing | 19. Kayaking |
| 4. Fish collecting | 20. Canoe/wa'a |
| 5. Sport fishing | 21. Glass bottom boating |
| 6. Net-fishing | 22. Underwater photography |
| 7. Trap fishing | 23. Waterside camping |
| 8. Other kind of fishing: Please list | 24. Beach recreation, BBQ, picnic |
| 9. Sand/coral extraction | 25. Walking/Hiking/Running |
| 10. Interacting w dolphins | 26. Collecting Herbal Medicines |
| 11. Swimming/wading | 27. Bird watching |
| 12. Snorkeling | 28. Beach Clean up |
| 13. Diving (SCUBA) | 29. Hunting |
| 14. Boarding (surfing, kitesurfing, SUP, body-surfing, body-boarding) | 30. Seaweed harvesting |
| 15. Jet-ski/thrill-craft | 31. Other activities: Please list. |
| 16. Water sports/water skiing | 32. None |



Q21. To what extent do you think your coral reef related activities affect the coral reefs?

1. No impact on the reefs
2. Significantly helps the reefs
3. Helps the reef somewhat
4. Both helps and hurts the reefs
5. Hurts the reef somewhat
6. Significantly hurts the reefs
7. Not sure

Q22. Please explain why you think your activities help/hurt the coral reefs? [Open Ended]

Q23. How do you participate in <activities>?

1. Use my own boat and equipment (or that of a member of my group)
2. Rent a boat that my group uses, but use our own equipment
3. Rent a boat and equipment that my group uses
4. Use a service that provides transportation and all equipment for the activity
5. Other: Please list
6. I do not participate in any activities that require a boat
7. Not Sure

Q24. Please indicate how important each of the following factors is in terms of deciding where you would like to participate in coral reef related activities at <location>.

	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Clear water (high visibility)						
Quality of the reef						
Abundance of fish at the reef						
Types of fish at the reef (i.e., diversity)						



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	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Size of fish at the reef						
Amount of live coral at the reef						
Size of the reef						
Abundance of other sea life (e.g., manatees, whales, dolphins, sea turtles)						
Whether the reef is a specially protected area						
Amount of algae cover on the reef						
Difficulty of the conditions for participating in recreational activities on the coral reef						
Distance from my shore access point to the reef						
Ease of getting to the reef						
Adequacy of my boat to get to the reef						
Mooring buoys near coral reefs						
Level of crowding at the reef						
Seasonal closures at desirable reef locations						
Presence of other groups that I don't like						
Amount of pollution near the reef						
Safety of swimming near reef						
Fish catch per trip to reef						
Whether or not a particular commercial charter boat goes to the reef						
Ease of finding a charter/ company to go to the reef						
Cost to get to the reef						
Opportunities to participate in coral reef activities at the reef						
The information available about the reef						
Availability of protected calm waters						
Availability of shore-side support facilities (e.g. dive shops, piers, recompression chambers)						
Absence of dangerous animals (e.g., sharks, jellyfishes)						



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	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Water at the reef is deep						
Occurrence of unusual features (e.g., underwater caves, ship wrecks)						
Opportunities to do other aquatic activities (e.g. surfing)						
Other: Please list						

Q25. Please indicate how important each of the following factors is in terms of deciding whether or not you would choose to do coral reef related activities at a reef other than the one you visit most often.

	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Clear water (high visibility)						
Quality of the reefs						
Abundance of fish at the reefs						
Types of fish at the reefs (i.e., diversity)						
Size of fish at the reefs						
Amount of live coral at the reefs						
Size of the reefs						
Abundance of other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Whether reefs are in specially protected area						
Difficulty of the conditions on coral reef						
Distance to coral reefs						
Mooring buoys near coral reefs						
Level of crowding						
Area closures at desirable reef locations						
Presence of other groups that I don't like						
Amount of pollution near the reefs						
Safety of swimming near reefs						



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	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Fish catch per trip to reefs						
Whether or not a particular outfit goes to the reef						
Ease of finding a charter/ company to go to the reefs						
Cost to get to the reefs						
Quality of the beaches						
Availability of parking						
Presence of active conservation/management						
Presence of surfing contests						
Maps, brochures and other tourist information						
Customer service and friendliness of people						
Value for the price						
Safety of the location/Amount of crime						
Ease of getting to location						
Number of activities to do at the locations						
Quality of accommodations						
Ease of finding a company that provides the activity						
Price companies charge to do the activity						
Level of crowding at the reefs						
Other: Please list						

Q26. Assuming each of the following conditions, how would that affect the amount of time you would spend on outdoor recreation activities in <location> during a 12-month period?

	Same Amount of Time	Slightly Less Often	About Half as Often	Much Less Often	Almost Never	Not Sure
Less living coral cover than it currently has						
Very little living coral cover						
No living coral cover						



Q27. How would the disappearance of live coral cover in <location> affect the amount of time you would spend on outdoor recreation activities outside <location>?

1. No change in the amount of time I spend in <location>
2. I would visit other locations slightly more often
3. I would visit other locations about half the time
4. I would visit other locations much more often
5. I would visit other locations almost exclusively (and would rarely if ever return to [location])
6. Not Sure

Q28. How many times have you participated in a coral reef related activity in [location] in the last 12 months, that is, since (date last year)?

1. None
2. 1
3. 2
4. 3-5
5. 6-8
6. 8-12
7. More than 12
8. No Response



CATEGORY 3: Perceived threats to coral reefs

Q29. To what degree do you think any problems or threats exist to the coral reefs in <location>?

- 1. None
- 2. Minimal
- 3. Moderate
- 4. Large
- 5. Extreme
- 6. Not sure

Q30. What do you see as the greatest threats to the reefs in <location>? [Open Ended]

Q31. 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						
Ocean acidification						
Sand Extraction/Mining						
Erosion						
Increased coastal/urban development						
Stormwater and wastewater runoff						
Chemical runoff (pesticides, herbicides, fertilizers, detergents, phosphates)						
Dredging						
Taking coral or live rock from beaches						
Taking coral or live rock from the sea						
Coral bashing (damaging the reef)						
Trash/littering						
Marine pollution (e.g. sewage/ dumping/ trash/ sedimentation)						
Poor water quality						



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Cruise ship traffic						
Ships and boats grounding on reefs						
Scuba divers						
Irresponsible diving						
Too many divers						
Number of tourists						
Overuse for recreation						
Illegal fishing						
Illegal harvesting						
Harmful Fishing practices						
Overfishing						
Other illegal activities						
Invasive species, e.g. lion fish						
Introduced species						
Increasing Population size						
Hurricanes						
Natural disasters						
Other: Please list						

Q32. How important do you consider the following potential threats facing the coral reefs in <location>?

	Very Unimportant	Unimportant	Neither Important nor Unimportant	Important	Very Important	Not Sure
Climate change						
Coral bleaching						
Ocean acidification						
Sand Extraction/Mining						
Erosion						
Increased coastal/urban development						
Stormwater and wastewater runoff						
Chemical runoff (pesticides, herbicides, fertilizers)						
Sedimentation						
Dredging						
Taking coral and live rock from beaches						
Taking coral and live rock from the sea						
Coral bashing						
Trash/littering						
Pollution (e.g. sewage/ dumping/ trash/						



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sedimentation)						
Poor water quality						
Cruise ship traffic						
Ships and boats grounding on reefs						
Scuba divers						
Irresponsible diving						
Too many divers						
Too many divers						
Number of tourists						
Overuse for recreation						
Illegal fishing						
Illegal harvesting						
Harmful Fishing practices						
Overfishing						
Other illegal activities						
Invasive species, e.g. lion fish, Roi, Taape, etc.						
Introduced species						
Increasing Population size						
Hurricanes						
Other natural disaster						
Other: Please list						

Q33. Of the following list, what do you think are the greatest threats to the reefs in <location>? (Please check up to 4)

- | | |
|--|---|
| 1. Climate change | 12. Taking coral and live rock from the sea |
| 2. Coral bleaching | 13. Coral bashing |
| 3. Ocean acidification | 14. Trash/littering |
| 4. Sand Extraction/Mining | 15. Pollution (e.g. sewage/dumping/ trash/ sedimentation) |
| 5. Erosion | 16. Poor water quality |
| 6. Increased coastal/urban development | 17. Cruise ship traffic |
| 7. Stormwater and wastewater runoff | 18. Ships and boats grounding on reefs |
| 8. Chemical runoff (pesticides, herbicides, fertilizers) | 19. Scuba divers |
| 9. Sedimentation | 20. Irresponsible diving |
| 10. Dredging | 21. Too many divers |
| 11. Taking coral and live rock from beaches | 22. Number of tourists |
| | 23. Overuse for recreation |



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24. Illegal fishing
25. Illegal harvesting
26. Harmful Fishing practices
27. Destructive fishing
28. Overfishing
29. Spear fishing
30. Other illegal activities
31. Invasive species, e.g. lion fish
32. Introduced species
33. Increasing Population size
34. Hurricanes
35. Other Natural Disasters
36. Other: Please list
37. Not sure



Q34. *How familiar are you with coral bleaching?*

1. Very Unfamiliar
2. Unfamiliar
3. Neither Familiar nor Unfamiliar
4. Familiar
5. Very Familiar
6. Not Sure

Q35. *In your opinion, what is the primary cause of coral bleaching? Ask only if they are at least moderately familiar with coral bleaching (per Q36)*

1. Local factors exclusively
2. Non-local factors such as climate change, exclusively
3. Non-local factors aggravated by local factors
4. Local factors aggravated by non-local factors
5. I don't know



CATEGORY 4: Marine Protected Areas

Q36. How familiar are you with Marine Protected Areas (MPAs)? A Marine Protected Area is an area whose boundaries include some area of ocean and typically restricts human activity for the purpose of protecting living, non-living, cultural, and/or historic resources.

1. Very Unfamiliar
2. Unfamiliar
3. Neither Familiar nor Unfamiliar
4. Familiar
5. Very Familiar
6. Not Sure

Q37. Please indicate which each of the following statements are true for <Name> MPA.

	True	False
<Name> MPA is closed to all human activities		
<Name> MPA exists for conservation		
<Name> MPA exists for cultural use		
<Name> MPA exists for subsistence use		
<Name> MPA allows specific recreation and commercial uses		
<Name> MPA encompasses a variety of conservation and management methods		
<Name> MPA enables research and education on coral reefs and the environment		
<Name> MPA restricts fishing practices within its boundaries		
<Name> MPA has routine closings		
<Name> MPA has boating restrictions		
<Name> MPA restricts the use of the coral reef for certain recreational activities		

Q38. Which of the following are considered Marine Protected Areas (MPA)? (please check all that apply)

1. Marine Sanctuary
2. National Monument
3. Marine Reserve
4. Commercial Port
5. National Park
6. None
7. Not Sure



Q39. Which of the following do you believe represents the primary purpose(s) of MPAs? (Please check all that apply)

1. Increasing overall fish stocks and biomass within the zones
2. Increasing overall fish stocks and biomass outside the zones
3. Conserving and protecting corals, fish, and other marine life inside the zones
4. Resolving user group conflicts
5. Supporting scientific research
6. Food security
7. Protecting a sacred place
8. Cultural heritage
9. Educating the public
10. Recreational use
11. Building resiliency for future natural disasters,
12. Shoreline protection
13. Other: Please list

Q40. How knowledgeable are you with the rules and regulations governing [name] MPA?

1. Not at all knowledgeable
2. Somewhat knowledgeable
3. Moderately knowledgeable
4. Knowledgeable
5. Extremely knowledgeable
6. Not Sure

Q41. How has <Name> MPA impacted your livelihood?

1. Very positive impact
2. Somewhat positive impact
3. Both positive and negative impacts
4. Somewhat negative impact
5. Very negative impact
6. No impact
7. Not sure



Q42. How have MPAs impacted the livelihoods of people from your community that you are aware of?

1. Very positive impact
2. Somewhat positive impact
3. Both positive and negative impacts
4. Somewhat negative impact
5. Very negative impact
6. No impact
7. Not sure

Q43. In your opinion, which groups have most benefited from <Name> MPAs? (Please select no more than 3)

1. Commercial fishers
2. Local subsistence fishers
3. Recreational/sport fishers
4. Commercial fish and dive operators
5. Local dive operators
6. Recreational (local and tourist) divers
7. Conservation groups
8. Local communities
9. Local government
10. Other: Please list

Q44. Please indicate the extent to which you agree or disagree with each of the following statements.

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
MPAs protect the ocean environments						
MPAs protect coral reefs						
MPAs improve the environment						
MPAs have been effective in restoring coral reefs in <location>						
There should be more MPAs zones in <location>						
MPAs increase the number of fish within their						



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	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
boundaries						
MPAs increase the number of fish outside of their boundaries						
MPAs have reduced conflicts between different user groups in <location>						
MPAs have increased conflicts between different user groups in <location>						
I support the establishment of MPAs as they are currently established						
I support the establishment of MPAs in <location>						
I generally support the establishment of MPAs						
I support the establishment of a research only area in <location>						
A research only area in the <name> MPA would have a positive impact on the marine environment						
Research only areas protect and improve coral reefs						
I support boundary expansion of the <name> MPA						
Boundary expansion of the <name> MPA would have a positive impact on the marine environment						
<location> has benefited environmentally from establishment of the <name> MPA						
There has been a net economic benefit to the <location> coastal economy from the establishment of the <name> MPA						
There should be more than one reef location set aside as a research only area in the <name> MPA						
Commercial fisheries have benefited from the establishment of the <name> MPA						
Local fisherman have benefited from the establishment of the <name> MPA						
Recreational/sport fisherman have benefited from the establishment of the <name> MPA						
<Name> MPA regulations have had no effect on my business						
The establishment of MPAs in <location> will increase the likelihood that I will vacation there						
I have visited <location> because of the establishment of MPAs						
MPAs help increase tourism						



	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
Having all the waters surrounding <location> in an MPA makes the area a more attractive destination						
Boating regulations should exist to protect coral reef systems						

Q45. How has the <name> MPA been most successful? (Please check all that apply)

1. Protecting specific species of concern or of commercial value
2. Protecting the whole coral reef ecosystem
3. Protecting the environment of the entire region, not only the coral reef system
4. Increasing the public environmental awareness
5. Increasing the opportunities to use the resources
6. Increasing tourism
7. Increasing security (i.e., reduction in criminal activity)
8. Increasing scientific research
9. Improving the water quality of the area/reducing contamination
10. Reducing user conflicts
11. Protecting cultural artifacts or traditions
12. Other: Please list
13. None

Q46. Least successful?

1. Protecting specific species of concern or of commercial value
2. Protecting the whole coral reef ecosystem
3. Protecting the environment of the entire region, not only the coral reef system
4. Increasing the public environmental awareness
5. Increasing the opportunities to use the resources
6. Increasing tourism
7. Increasing security (i.e., reduction in criminal activity)
8. Increasing scientific research
9. Improving the water quality of the area/reducing contamination
10. Reducing user conflicts



11. Protecting cultural artifacts or traditions
12. Other: Please list
13. None

Q47. *Has your use of < Name> MPA increased, decreased, or stayed the same since its establishment?*

1. Increased significantly
2. Increased a little
3. Stayed the same
4. Decreased a little
5. Decreased significantly

Q48. *Why has your use changed? (Please check all that apply)*

1. Doing activities other places by choice
2. New regulations prevent doing former activities
3. Crowding has become a problem
4. Doing the activities less
5. The activities are less enjoyable since the implementation of the regulations
6. Other: Please list
7. Has not changed



CATEGORY 5: Resource Conditions of Coral Reefs

Q49. *What is the current condition of each of the following at <Location>?*

	Very Bad	Bad	Neither Bad nor Good	Good	Very Good	Don't Know
Fish on the Reef Flat						
Fish on the Reef Slope						
Pelagic Fish						
Invertebrates on the Reef Flat						
Invertebrates on the Reef Slope						
Spawning Stocks						
Reef Flat Habitat						
Reef Slope Habitat						
Water Quality						
Mangrove Crab						
Mangrove Trees						
Sea Shells						
Corals						
Seagrasses						
Abundance of fish						
Size of fish						
Types of fish (i.e., diversity)						
Abundance of Invertebrates						
Diversity of Invertebrates						
Number of sea urchins and sea cucumbers						
Number of Lobsters						
Number Octopus						
Abundance of Living Coral						
Diversity of Living Coral						
Turtle Nesting Sites						
Presence of other sea life (manatees, whales, dolphins, sea turtles, sharks, etc.)						
Abundance of other sea life (manatees, whales, dolphins, sea turtles, sharks, etc.)						
Land-based pollution/sewage						
Sea-based pollution/marine debris						
Fisheries						
Sandy beaches						



	Very Bad	Bad	Neither Bad nor Good	Good	Very Good	Don't Know
Mooring buoys						
Fewer vessel groundings						
Other bottom habitat						
Overgrowth of algae						
Sedimentation of reefs						
Crowding (too many people)						

Q50. How are the current conditions of the marine resources in <location>?

1. Very Bad
2. Bad
3. Neither Good nor Bad
4. Good
5. Very Good
6. Not Sure

Q51. Has the condition of marine resources in <location> gotten better or worse over the last 5 years?

1. Significantly Worse
2. Worse
3. No Change
4. Better
5. Significantly Better
6. Not Sure

Q52. Has the condition of marine resources in <location> gotten better or worse over the last 20 years?

1. Significantly Worse
2. Worse
3. No Change
4. Better
5. Significantly Better
6. Not Sure



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Q53. How has the condition of each of the following in <location> changed over the last XX years? (Years to vary depending on location)

	Significantly Worse	Worse	No Change	Better	Significantly Better	Not Sure
Fish on the Reef Flat						
Fish on the Reef Slope						
Pelagic Fish						
Invertebrates on the Reef Flat						
Invertebrates on the Reef Slope						
Spawning Stocks						
Reef Flat Habitat						
Reef Slope Habitat						
Water Quality						
Mangrove Crab						
Mangrove Trees						
Sea Shells						
Corals						
Seagrasses						
Abundance of fish						
Size of fish						
Types of fish (i.e., diversity)						
Abundance of Invertebrates						
Size of Invertebrates						
Number of sea urchins and sea cucumbers						
Number of Lobsters						
Number Octopus						
Abundance of Living Coral						
Turtle Nesting Sites						
Other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Abundance of other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Any other large scale changes over time like changes in weather patterns, water temperature, or fishing seasons						
Large scale changes due to natural disasters						
Overgrowth of algae						
Sedimentation of reefs						



	Significantly Worse	Worse	No Change	Better	Significantly Better	Not Sure
Other bottom habitat						

Q54. Please describe any changes you have observed in the questions above. [Open Ended]

Q55. To what degree have the changes you have observed affected your <activity> practices?

1. Not At All
2. Very Little
3. A Moderate Amount
4. Large
5. Significant
6. Not Sure

Q56. Which of these change have affected your <activity> practices and how? [Open Ended]

Q57. To what degree have you noticed any other large scale changes over time like changes in fish populations, weather patterns, water temperature, or fishing seasons?

1. Not At All
2. Very Little
3. A Moderate Amount
4. Large
5. Significant
6. Not Sure

Q58. Please describe those changes. [Open Ended]



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Q59. To what extent would you be willing to accept more limited access to <Name> MPA to have...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
More fish in reef						
More living coral						
More invertebrates						
More turtle nesting grounds						
More seagrass						
More mangroves						
More other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Cleaner water						
Less algae overgrowth						
Other: Please list						

Q60. To what extent would you be willing to accept increased fishing regulations in <Name> MPA to have...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
More fish in reef						
More living coral						
More invertebrates						
More turtle nesting grounds						
More seagrass						
More mangroves						
More other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Cleaner water						
Less algae overgrowth						
Other: Please list						



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Q61. To what extent would you be willing to accept increased restrictions on invertebrate harvesting to have...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
More fish in reef						
More living coral						
More invertebrates						
More turtle nesting grounds						
More seagrass						
More mangroves						
More other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Cleaner water						
Less algae overgrowth						
Other: Please list						

Q62. To what extent would you be willing to accept increased pollution regulations to have...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
More fish in reef						
More living coral						
More invertebrates						
More turtle nesting grounds						
More seagrass						
More mangroves						
More other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Better water transparency						
Less algae overgrowth						
Other: Please list						



Q63. To what extent would you be willing to accept more limited construction and development, particularly near the seashore, to have...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
More fish in reef						
More living coral						
More invertebrates						
More turtle nesting grounds						
More seagrass						
More mangroves						
More other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Better water transparency						
Less algae overgrowth						
Less sediment on reef						
Other: Please list						

Q64. To what extent would you be willing to accept increased regulation of coral reef activities to have...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
More fish in reef						
More living coral						
More invertebrates						
More turtle nesting grounds						
More seagrass						
More mangroves						
More other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Better water transparency						
Less algae overgrowth						
Other: Please list						



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Q65. To what extent would you be willing to accept increased boating restrictions in <Name> MPA to have...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
More fish in reef						
More living coral						
More invertebrates						
More turtle nesting grounds						
More seagrass						
More mangroves						
More other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Better water transparency						
Less algae overgrowth						
Less anchor damage to reefs						
Less marine-based pollution						
Other: Please list						

Q66. How familiar are you with each of the following conservation local, national, and international coral reef conservation programs?

	Very Unfamiliar	Unfamiliar	Neither Familiar nor Unfamiliar	Familiar	Very Familiar	Not Sure
<Program name> jurisdictional coral reef program						
NOAA/National Coral Reef Conservation Program						
Micronesia Challenge						
International Coral Reef Initiative						
Caribbean Challenge						



CATEGORY 6: Coral Reefs Changes Since Establishment of MPAs

Q67. To what degree have you seen changes in the following within the <name> MPA since it was established?

	Significantly Fewer	Fewer	No Change	More	Significantly More	Not Sure
Fish (used for food)						
Mangrove crab						
Mangrove trees						
Round clam (popol)						
Conch and other sea shells						
Corals						
Seagrasses						
Invertebrates						
Turtle nesting grounds						
Sandy beaches						
Sea urchins						
Octopus						
Lobsters						
Sea birds						
Other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Other bottom habitat						
<i>Specific species to be added as determined by location</i>						

Q68. To what degree have you seen changes in the abundance/condition of each of the following since <name> MPA was established?

	Significantly Worse	Worse	No Change	Better	Significantly Better	Not Sure



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	Significantly Worse	Worse	No Change	Better	Significantly Better	Not Sure
Fish on the Reef Flat						
Fish on the Reef Slope						
Pelagic Fish						
Invertebrates on the Reef Flat						
Invertebrates on the Reef Slope						
Spawning Stocks						
Reef Flat Habitat						
Reef Slope Habitat						
Water Quality						
Mangrove Crab						
Mangrove Trees						
Sea Shells						
Corals						
Seagrasses						
Number of fish						
Size of fish						
Types of fish (i.e., diversity)						
Abundance of Invertebrates						
Abundance of Living Coral						
Turtle Nesting Sites						
Other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Abundance of other sea life (manatees, whales, dolphins, sea turtles, sharks etc.)						
Any other large scale changes over time like changes in weather patterns, water temperature, or fishing seasons						
Other bottom habitat						



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Q69. To what degree have you seen a change in the amount of each of the following directly outside the <name> MPA now versus XX years ago? (Years to vary depending on location)

	Significantly Fewer	Fewer	No Change	More	Significantly More	Not Sure
Food fish						
Aquarium fish						
Mangrove crab						
Mangrove trees						
Round clam (popol)						
Conch and other sea shells						
Corals						
Seagrasses						
Invertebrates						
Turtle nesting grounds						
Sea urchins						
Octopus						
Lobsters						
Sea birds						
Other sea life (manatees, whales, dolphins, sea turtles, sharks etc.)						
Other bottom habitat						

Q70. To what degree have you seen changes in abundance/condition in each of the following directly outside the <name> MPA now versus 5 years ago?

	Significantly Worse	Worse	No Change	Better	Significantly Better	Not Sure
Fish on the Reef Flat						
Fish on the Reef Slope						
Pelagic Fish						
Invertebrates on the Reef Flat						
Invertebrates on the Reef Slope						
Spawning Stocks						



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	Significantly Worse	Worse	No Change	Better	Significantly Better	Not Sure
Reef Flat Habitat						
Reef Slope Habitat						
Water Quality						
Mangrove Crab						
Mangrove Trees						
Sea Shells						
Corals						
Seagrasses						
Number of fish						
Size of fish						
Types of fish (i.e., diversity)						
Abundance of Invertebrates						
Abundance of Living Coral						
Turtle Nesting Sites						
Other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Abundance of other sea life (manatees, whales, dolphins, sea turtles, etc.)						
Any other large scale changes over time like changes in weather patterns, water temperature, or fishing seasons						
Other bottom habitat						

Q71. Please rate the change in status/condition of the following since the implementation of the <name> MPA.

	Significantly Worse	Worse	No Change	Better	Significantly Better	Not Sure
Land-based pollution/sewage						
Sediment runoff in the reef area						
Sea-based pollution/marine debris						
Sea water quality						
Coral reef fisheries						



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	Significantly Worse	Worse	No Change	Better	Significantly Better	Not Sure
Pelagic fisheries						
Mooring buoys						
Fewer vessel groundings						
Crowding (too many people)						
Incidence of harmful algal blooms (e.g., red tides)						
Number of shark sightings						
Improvement in reef-related livelihoods						
Access to reefs						

Q72. To what degree do you feel the <name> MPA is responsible for the status/condition of these resources?

	Not At All	Slightly	Somewhat	To A Large Degree	Completely	Not Sure
Land-based pollution/sewage						
Sediment runoff in the reef area						
Sea-based pollution/marine debris						
Sea water quality						
Coral reef fisheries						
Pelagic fisheries						
Mooring buoys						
Fewer vessel groundings						
Crowding (too many people)						
Incidence of harmful algal blooms (e.g., red tides)						
Number of shark sightings						

Q73. To what degree has your use of <name> MPA changed since the zone was established?

1. Rarely or never used and still do not
2. Decreased significantly



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3. Decreased some
4. Has not changed
5. Increased some
6. Increased Significantly
7. Not sure



CATEGORY 7: Knowledge of Rules/Regulations

Q74. Here in [jurisdiction], do regulations exist for participating in each of the following activities in or near a coral reef in <location>/<Name> MPA?

	Yes	No	Don't know
Coral Harvesting			
Invertebrate Harvesting			
Harvesting of Mangroves			
Harvesting of mangrove species			
Fishing with Rod & Reel			
Sport / Recreational fishing			
Net-fishing			
Trap fishing			
Talakhaya (Throw Net) Fishing			
SCUBA Spearfishing			
Freedive Spearfishing			
Gillnet Fishing			
Spear Fishing			
Live Fish Collecting			
Commercial Fishing			
Subsistence Fishing			
Collecting Trochus			
Collecting Sea Cucumbers			
Size of fish that can be removed			
Number of fish catch per trip			
Driving on Beach			
Burning			
Trash Dumping			
SCUBA diving			
Snorkeling/swimming			
Boating			
Water sports			
Sea Turtle Harvesting			
Taking Sea Turtle Eggs			
Taking Bird Eggs			
Residential / Commercial Development			
Sand Extraction			
Anchoring			
Using chemicals for fishing			
Using explosives for fishing			



Q75. *When you were planning your recent trip to <location>, were you aware that there were special zones where certain activities are restricted or not allowed?*

1. Yes
2. No
3. Not Sure

Q76. *Did you know before your recent visit to <location> that all <name/region> is a Marine Protected Area?*

1. Yes
2. No
3. Not Sure

Q77. *Which of the following restrictions exist in <name> MPA? (Please check all that apply)*

1. No fishing
2. Designated no take areas
3. Seasonal fishing restrictions
4. Species restrictions
5. Fish size restrictions
6. No anchoring
7. Prohibited discharge of sewage or graywater from vessels
8. Restrictions on coastal construction/development
9. Vessel transit restrictions (e.g., no transit of oil tankers)
10. Restrictions on types of fishing gear used
11. Diving restrictions
12. Restrictions on tourist activities
13. Permits required for use
14. Cultural use only
15. Bag limits
16. Limits on gear types
14. Other: Please list

Q78. *How familiar are you with more traditional or cultural methods for managing marine resources and coral reefs in [Location]?*

1. Very unfamiliar
2. Unfamiliar
3. Neither familiar nor unfamiliar
4. Familiar



5. Very Familiar
6. Not Sure

Q79. Does your village have a local, traditional, or cultural method for managing marine resources and coral reefs?

1. Yes
2. No
3. Not Sure

Q79a. Please describe. [Open Ended]

Q80. How effective are the more traditional or cultural methods for managing marine resources and coral reefs?

1. Very ineffective
2. Ineffective
3. Neither effective nor ineffective
4. Effective
5. Very effective
6. Not Sure

Q80a. Please explain [Open Ended]

Q81. How effective are the more traditional or cultural methods for managing marine resources and coral reefs as compared to more “modern” rules and regulations for governing marine resources and coral reefs?

1. Traditional methods are much less effective
2. Traditional methods are less effective
3. No difference between the traditional and modern methods
4. Traditional methods are more effective
5. Traditional methods are much more effective
6. Not Sure



CATEGORY 8: Compliance with Rules/Regulations

Q82. Please rate the extent to which you believe each of the following occur.

	Never	1-25% Rarely	26-50% Sometimes	51-75% About Half of the Time	76-99% Most of the Time	Always	Not Sure
How often do you believe fishers do not comply with regulations?							
How often do you believe that a fisher who is not complying with fisheries regulations would be seen or detected by enforcement agents?							
How often do you believe that fishers who do not comply with fisheries regulations are caught and penalized?							
How often do you believe that people fish inside the <name> MPA no-take zones?							
Based on your observations, how often would you say that commercial fishers do not comply with fisheries regulations?							
Based on your observations, how often would you say that non-commercial fishers do not comply with fisheries regulations?							
How often do people from <location> not comply with MPA regulations?							
How often do people from outside <location> not comply with MPA regulations?							
How often do you believe commercial or recreational divers do not comply with regulations?							
How often do you believe that a commercial or recreational diver who is not complying with regulations would be seen or detected by the enforcement agencies?							
How often do you believe commercial or recreational divers who do not comply with regulations are caught and penalized?							
Based on your observations, how often would you say that commercial dive operators do not comply							



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	Never	1-25% Rarely	26-50% Sometimes	51-75% About Half of the Time	76-99% Most of the Time	Always	Not Sure
with regulations?							
Based on your observations, how often would you say that recreational divers do not comply with regulations?							

Q83. Please rate the extent to which you agree/disagree with each of the following.

	Strongly Disagree	Disagree	Neither	Agree	Strongly Agree	Not Sure
People from <location> respect the MPA regulations.						
People from outside <location> respect the MPA regulations.						
Commercial diving operations respect MPA regulations.						
Local diving operations respect MPA regulations.						
Commercial fishing operations respect MPA regulations.						
Local fishing operations respect MPA regulations.						
Tourists respect MPA regulations.						
Tourists are knowledgeable of MPA regulations.						
Local people are knowledgeable about MPA regulations						
Commercial and local fisheries are treated differently by authorities for violating regulations.						
Commercial and local diving operations are treated differently by authorities for not complying with regulations.						
Enforcement of regulations is fairly carried out.						
Enforcement of regulations is adequate.						
Penalties are fair and in line with the violation.						
No specific groups are singled out in enforcement of regulations.						
No specific groups are singled out in allocating penalties.						



Q84. Why do you think some people do not follow the regulations?

	Strong Reason	Sort of a reason	Not a reason	Not Sure
It is easy to do- not likely to get caught				
They don't know it's illegal				
They don't know it can harm the environment				
They don't know it can harm wildlife and the coral reef ecosystem				
They need to earn a living and feel they have no other option				
They don't care				
People are lazy				
They think it's fun				
They want to fish/dive in a less populated area				
MPAs have more fish/coral to see/catch				
People do not appreciate how much of an impact violating regulations has on the environment/coral reef ecosystem				
The MPA is easier to get to (or safer) than other fishing areas				
There is not enough enforcement				
Other, please specify				

Q85. Please rate your confidence level that each of the following is accurately and fairly enforcing coral reef related rules and regulations.

	Not at all Confident	Slightly Confident	Moderately Confident	Confident	Very Confident	Not Sure
Enforcement officers						
Administrative hearings						
Legal and trial process						



CATEGORY 9: Coral Reef Management Processes

Q86. Have you donated any money or time towards an environmental cause in the last 12 month?

1. Time
2. Money
3. Both
4. Neither

Q87. How much time did you donate over the last 12 months? (if yes to previous question)

1. Less than 5 hours
2. 5-25 hours
3. 25-50 hours
4. 50-75 hours
5. More than 100 hours
6. No response

Q88. How much money did you donate over the last 12 months? (if yes to prior question)

1. Less than \$20
2. \$20 - \$50
3. \$50 - \$100
4. \$100 - \$200
5. More than \$200
6. No response



Q89. To what extent do you participate in any of the following activities to help protect the environment?

	Not At All	Once a year or Less	Several times a year	At least once a month	Several Times a Month	At Least Once a Week	Several Times a Week	Every Day	Not Sure
Coastal Cleanup (beach clean up)									
Community watch									
Volunteer as a docent (school, visitor center, etc)									
Volunteer with a non-governmental organization									
Develop or maintain a coral reef blog, web site, or other Internet presence									
Fish monitoring/fish counts									
Community-based creel survey									
Local education/awareness initiatives									
Other: Please list									

Q90. To what degree are you involved in making decisions related to the management of coral reefs in <location>?

1. Not at all involved
2. Slightly involved
3. Moderately involved
4. Involved
5. Very involved

Q91. How satisfied are you with the current management strategies for coral reefs in <location>?

1. Very unsatisfied
2. Unsatisfied
3. Neither
4. Satisfied
5. Very Satisfied
6. Not sure



Q92. How effective are each of the following management strategies or regulations in the <name> MPA/Jurisdiction?

	Very Ineffective	Ineffective	Neither Effective Nor Ineffective	Effective	Very Effective	Not Sure
Restricting use of anchors and or designate mooring areas						
Limiting shoreside/streamside activities (e.g., agriculture or construction) to reduce pollution						
Fishing restrictions (e.g., fish size class, number of fish, fishing seasons, locations)						
Species restrictions						
Catch shares						
Traditional management methods						
Controlling access to coral reefs						
Limiting construction maritime facilities (piers, waterfronts, boat ramps)						
Dive tourism restrictions						
Seasonal/rotational closures						
Distributing coral reef educational materials to visitor						
Conducting outreach activities to educate public						
Marine zoning						
Other: Please list						

Q93. What, if any, management strategies or regulations do you think should be changed in the <name> MPA?

1. Restricting use of anchors and or designate mooring areas
2. Limiting shoreside/streamside activities (e.g., agriculture or construction) to reduce pollution
3. Fishing restrictions (e.g., fish size class, number of fish, fishing seasons, locations)
4. Controlling access to coral reefs
5. Limiting construction maritime facilities (piers, waterfronts, boat ramps)
6. Dive tourism restrictions
7. Seasonal/rotational closures
8. Distributing coral reef educational materials to visitor



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9. Conducting outreach activities to educate public
10. Marine zoning
11. Other: Please list

Q94. How effective do you think [regulation] of each of the following are at [location]?

Management of:	Very Ineffective	Ineffective	Neither Effective nor Ineffective	Effective	Very Effective	Don't Know
Fishing						
Beach Use						
Littering or dumping						
Illegal burning						
Road Maintenance						
Watershed issues (e.g. pollution, nutrient runoff, sediment, coastal development)						
No-take MPAs						
Restricted use MPAs						
Gear restrictions						
Size restrictions on fishing						
Species restrictions on fishing						
Seasonal and/or rotational closures						
Dive tourism						
Other tourist activities						
Sand mining						
Other: Please list						

Q95. How successful is the Federal government in protecting coral reefs?

1. Not at all successful
2. Somewhat successful
3. Moderately successful
4. Successful
5. Extremely successful
6. Not sure



Q96. *How successful is the local government in protecting coral reefs?*

1. Not at all successful
2. Somewhat successful
3. Moderately successful
4. Successful
5. Extremely successful
6. Not sure

Q97. *How involved is the local community in protecting and managing coral reefs?*

1. Not at all involved
2. Somewhat involved
3. Moderately involved
4. Involved
5. Very involved
6. Not sure

Q98. *How effective is the local community in protecting and managing coral reefs?*

1. Not at all effective
2. Somewhat effective
3. Moderately effective
4. Effective
5. Very effective
6. Not sure

Q99. *In your opinion, who has primary decision making authority over the coral reefs (and associated species)?*

1. Residents of <location>
2. A particular family
3. Village leadership
4. Village residents
5. Community group
6. No one
7. Residents of [territory]
8. The local government
9. The federal government



10. Other: Please list

Q100. *In your opinion, who is primarily responsible for management activities to protect coral reefs (and associated species)?*

1. Residents of <location>
2. A particular family
3. Village leadership
4. Village residents
5. Community group: _____
6. No one
7. Residents of <territory>
8. The local government
9. The federal government
10. Other: Please list



CATEGORY 10: Support for Management Processes and Regulations

Q101. Please rate the extent to which you agree or disagree with each of the following.

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
The process that the government has used to develop rules and regulations for <Name> MPA was open and fair to all groups						
It has not mattered whether the average person participated in the workshops and meeting on the <Name> MPA because the average person could not influence the final decisions						
The government agency responsible for designating the <Name> MPA has not addressed the concerns of local and state (or other federal) governments in developing rules and regulations for the MPA						
The government has not addressed the concerns of individual citizens in developing rules and regulations for <Name> MPA						
Once <Name> MPA regulations have been in effect, there has been no way that the average person to voice his/her opinion on the usefulness of the regulations						
The procedures that the government has established to deal with violations of <Name> MPA regulations have been fair and just						
<Location> has benefited environmentally from <Name> MPA						
<Location> has benefited socially from <Name> MPA						
<Location> has benefited culturally from <Name> MPA						
<Location> has benefited financially from <Name> MPA						
Sufficient resources and staff are available to enforce current regulations						
I know where to go to find information about regulations						
When developing regulations, the government takes the needs of the local community affected by the regulations into consideration						
Boating regulations are too stringent						
Fishing regulations are too stringent						
Construction regulations are too stringent						



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	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
Recreational activity regulations are too stringent						
Pollution regulations are too stringent						
Harvesting regulations are too stringent						
Access regulations are too stringent						
Boating regulations hurt the local economy						
Fishing regulations hurt the local economy						
Construction regulations hurt the local economy						
Recreational activity regulations hurt the local economy						
Pollution regulations hurt the local economy						
Harvesting regulations hurt the local economy						
Access regulations hurt the local economy						

Q102. To sufficiently protect the coral reefs, do you believe stronger, weaker, or no change to the existing regulations in <location> is warranted?

1. Significantly weaker regulations
2. Weaker regulations
3. No change
4. Stronger regulations
5. Significantly stronger regulations
6. Not Sure

Q103. To what extent would you support each of the following possible changes to existing rules and regulations or to existing management processes to improve the protection of the coral reefs in <location>?

Fishing and Harvesting Practices	Strongly Oppose	Oppose	Neither Support nor Oppose	Support	Strongly Support	Don't Know
Ban commercial harvesting						
Ban commercial fishing						
Create area for traditional fishing						
Allow more types of resource use in reserve						
Prohibit Scuba-spear fishing						
Prohibit destructive gear-types						



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Fishing and Harvesting Practices	Strongly Oppose	Oppose	Neither Support nor Oppose	Support	Strongly Support	Don't Know
Prohibit [specific gear types]						
Create more no-catch (no-take) fishing zones						
Create more restricted use zones						
Bag limits						
Minimum size limits on fish that can be taken						
Maximum size limits on fish that can be taken						
Species restrictions						
Slot limits (fish take is allowed above or below a certain size)						
Seasonal/spawning periods						
Fishing activities must be approved by the existing reef boards						
Catch shares						
No harvesting of bottom formations inside <Name> MPA						
No taking of invertebrates inside <Name> MPA						
The hook-and-line only fishing regulation in <Name> MPA						

Other Rules/Regulations	Strongly Oppose	Oppose	Neither Support nor Oppose	Support	Strongly Support	Don't Know
Increase enforcement of existing rules/regulations						
Expand boundaries of MPA						
Expand no-take area						
Decrease size no-take area						
Seasonal and/or rotational openings/closures						
Increase community participation in reserve management						
Stricter controls on sediment and nutrient runoff from land to the ocean						
More stringent control of pollutants to preserve water quality						
Stricter regulations on discharging of pollutants in <Name> MPA						
Restrictions on coastal development						



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Other Rules/Regulations	Strongly Oppose	Oppose	Neither Support nor Oppose	Support	Strongly Support	Don't Know
Banning commercial/recreational activities						
Limiting dive tourism						
Limiting other tourist activities						
Enforced training/certification of scuba divers and snorkelers						
Dive/snorkel operations should have limited entry in <location>						
Implement/enforce monetary fines for violation						
Stronger shipping regulations						
Ban anchoring in MPA						
Limit vessel size for mooring use in the MPA						
Require vessels use mooring buoys within the MPA						
Regulations on minimum distance and speed from vessels flying a dive flag						
The requirement that all dive vessels fly a dive flag						
Other: Please list						

Q104. Please rate the extent to which you agree or disagree with each of the following statements.

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
I support the <Name> MPA as it is currently established						
I support the no anchoring regulation in the MPA						
I support the prohibition on disturbing the sea bed including all mining and oil & gas activities						
I support the prohibition of commercial fishing use of wire fishing traps						
I support the prohibition commercial fishing using bottom trawls						
I support the prohibition on the damage or removal of bottom formations (e.g. corals and rock)						



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	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Sure
I support the prohibition on the use of explosives for fishing						
I support the prohibition on the discharge of pollutants in <Name> MPA waters						
I support the prohibition on spear fishing in the MPA						
The process that <name> MPA used to develop its rules and regulations was open and fair to all groups						
It has not mattered whether the average person participated in the workshops and meeting of the <Name> MPA because the average person could not influence the final decisions						
<Name> MPA has not addressed the concerns of other federal and state governments in developing its rules and Regulations						
<Name> MPA has not addressed the concerns of individual citizens in developing its rules and regulations						
Once the <Name> MPA regulations have been in effect, there has been no way that the average person to voice his/her opinion on the usefulness of the regulations						
The procedures that <Name> MPA has established to deal with violations of its regulations has been fair and just						
<Name> MPA does a good job of enforcing its regulations						
<Name> MPA does a good job of educating the public about its rules and regulations						



CATEGORY 11: Sources of Information Available

Q105. Which of the following sources would you consider to be your primary sources of information about coral reefs in <location>? (Please check up to 5). List region specific sources as well

- | | |
|---------------------------|---|
| 1. Newspaper | 15. [] Website |
| 2. Radio | 16. [] Staff |
| 3. Television | 17. Sanctuary Advisory Council |
| 4. Brochures | 18. People who participate in coral reef related activities |
| 5. Informational Signs | 19. Magazines |
| 6. Community Members | 20. Government agency publications |
| 7. Community/club Meeting | 21. Conservation organization publications |
| 8. Work | 22. NOAA sponsored Publications or websites |
| 9. Friends | 23. Other: Please list |
| 10. Family | 24. None |
| 11. Teachers | |
| 12. Religious Leaders | |
| 13. Workshop | |
| 14. Word of mouth | |

Q106. Which of the following sources would you consider to be your primary sources of information on participating in coral reef related activities you enjoy and its impact on coral reefs? (Please check up to 5). List region specific sources as well

- | | |
|---------------------------|---|
| 1. Newspaper | 13. Workshop |
| 2. Radio | 14. Word of mouth |
| 3. Television | 15. [] Website |
| 4. Brochures | 16. [] Staff |
| 5. Informational Signs | 17. Sanctuary Advisory Council |
| 6. Community Members | 18. People who participate in coral reef related activities |
| 7. Community/club Meeting | 19. Magazines |
| 8. Work | 20. Government agency publications |
| 9. Friends | 21. Conservation organization publications |
| 10. Family | |
| 11. Teachers | |
| 12. Religious Leaders | |



22. NOAA sponsored Publications or websites

23. Other: Please list

24. None

Q107. Which of the following sources would you consider to be your primary sources of information on government rules and regulations of coral reefs in <location>? (Please check up to 5). List region specific sources as well

1. Newspaper

2. Radio

3. Television

4. Brochures

5. Informational Signs

6. Community Members

7. Community/club Meeting

8. Work

9. Friends

10. Family

11. Teachers

12. Religious Leaders

13. Workshop

14. Word of mouth

15. [] Website

16. [] Staff

17. Sanctuary Advisory Council

18. People who participate in coral reef related activities

19. Magazines

20. Government agency publications

21. Conservation organization publications

22. NOAA sponsored Publications or websites

23. Other: Please list

24. None

Q108. Which of the following sources would you consider to be your primary sources of information about coral reefs management processes in <location>? (Please check up to 5). List region specific sources as well

1. Newspaper

2. Radio

3. Television

4. Brochures

5. Informational Signs

6. Community Members

7. Community/club Meeting

8. Work

9. Friends

10. Family

11. Teachers

12. Religious Leaders

13. Workshop

14. Word of mouth

15. [] Website

16. [] Staff

17. Sanctuary Advisory Council

18. People who participate in coral reef related activities

19. Magazines

20. Government agency publications

21. Conservation organization publications



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22. NOAA sponsored Publications or websites

23. Other: Please list
24. None

Q109. To what degree do you trust each of the following sources of information to provide you the most accurate information on coral reefs and coral reef related topics in <location>? List region specific sources as well

	Very Untrustworthy	Untrustworthy	Neither Trustworthy nor Untrustworthy	Trustworthy	Very Trustworthy	Not Sure
Newspaper						
Radio						
Television						
Brochures						
Informational Signs						
Community Members						
Community/club Meeting						
Village leaders						
Village council						
Work						
Friends						
Family						
Teacher						
Religious Leaders						
Workshop						
Word of mouth						
[] Website						
[] Staff						
Sanctuary Advisory Council						
People who participate in coral reef related activities						
Magazines						
Government agency publications						
Conservation organization publications						
Government sponsored publications or websites						
Other: Please list						



CATEGORY 12: Coral Reef Financial Reliance

Q110. To what degree do you rely on coral reefs as a source of food for yourself and your family?

1. Not at all
2. For a small part of the food we consume
3. For about half of my food we consume
4. For the majority, but not all of my food we consume
5. For my all of my food we consume
6. Not sure

Q111. To what degree do you rely on coral reefs for a source of income?

1. Not at all
2. For a small part of my income
3. For about half of my income
4. For the majority, but not all of my income
5. For my all of my income
6. Not sure

Q112. How often do you fish or harvest marine resources for each of the following reasons?

	Never	Rarely	Sometimes	Often	Frequently	No Response
To feed myself and my family/ household						
To sell for profit						
To give to extended family members and/or friends						
For fun						
For special occasions and cultural events						
To donate to charities						
Other: Please list						



Q113. *Is your occupation affiliated with the marine environment/industry in <location>?*

1. Yes
2. No
3. Not sure

Q114. *If YES, please circle the industry that best fits your primary profession.*

1. Commercial fishing
 2. Charter fishing
 3. Dive/snorkel operation
 4. Marina/boat operation
 5. Other watersports
 6. Eco-tour operation
 7. Ecological research
 8. Ocean/coastal management
 9. Artisan
 10. Education
- Other _____

Q115. *Do you belong to a fishery cooperative?*

1. Yes
2. No
3. No Response

Q116. *If yes, which one?*

List fish house options for specific location

Q117. *What approximate percentage of your TOTAL household income is derived from fishing?*

1. Less than 10%
2. 10 – 25%
3. 26 – 50%
4. 51 – 80%
5. 80 – 100%



Q118. What is your primary launch location or access point to the water?

List options specific to <location>

Q119. Do you have a secondary launch location or access point to the water, from which you port part of the year? If so, please check.

1. I do not have a launch location or access point to the water

List options specific to <location>



CATEGORY 13: Demographic Questions

Q120. How many family members do you support (including yourself)?

1. Myself Only
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. Greater than 7
9. No Response

Q121. What is your age? [Open Ended]

Q122. What is your sex?

1. Male
2. Female
3. No Response

Q123. What is the highest level of education you have completed?

1. 8th Grade or Less
2. 9th to 11th Grade
3. 12th Grade, High School Grad, GED
4. 13 to 15 Years (some community college or vocational training)
5. College Graduate
6. Graduate School, Law School, Medical School
7. No Response

Q124. What is your current employment status?

1. Unemployed
2. Student
3. Employed full-time



4. Homemaker
5. Employed part-time
6. Retired
7. None of the above (Please specify)
8. No Response

Q125. What is your occupation? [Open Ended]

Q126. In which sector are you employed? (Ask only for those who check employed full or part time) (check all that apply)

- | | |
|----------------------------------|---------------------------------|
| 1. Management, professional etc. | 10. Agriculture |
| 2. Service & Tourism | 11. Education |
| 3. Retail Sales | 12. Manufacturing /Oil Refinery |
| 4. Fishing/ Aquaculture | 13. Law Enforcement |
| 5. Fish Processing/Cannery | 14. Health / Medical |
| 6. Construction & Maintenance | 15. Communications |
| 7. Transportation | 16. Textiles |
| 8. Government (Federal) | 17. Other: Please list |
| 9. Government (Local) | 18. No Response |

Q127. What is your annual household income?

- | | |
|-------------------------|---------------------------|
| 1. Under \$10,000 | 7. \$60,000 to \$74,999 |
| 2. \$10,000 to \$19,999 | 8. \$75,000 to \$99,999 |
| 3. \$20,000 to \$29,999 | 9. \$100,000 to \$149,999 |
| 4. \$30,000 to \$39,999 | 10. \$150,000 or More |
| 5. \$40,000 to \$49,999 | 11. No Response |
| 6. \$50,000 to \$59,999 | |

Q128. Please list the city, state, and postal code of your primary residence [Open end]

Q129. For how many years have you lived at this location?

1. Less than 1 year
2. 1 – 5 years



3. 5 – 10 years
4. 10 – 20 years
5. 20 – 30 years
6. More than 30 years

Q130. Do you have direct access to the water from your residence?

1. I can get to the water from my property
2. My residence is a short walk to the water
3. My residence is a short drive to the water
4. My residence does not have direct access to the water
5. No Response

Q131. What race/ethnicity do you consider yourself? Select all that apply

- | | |
|--------------------------------------|---|
| 1. American Indian or Alaskan Native | 13. Mexican |
| 2. Asian | 14. Native Hawaiian or other Pacific Islander |
| 3. Black or African American | 15. Samoan |
| 4. Puerto Rican | 16. Taino |
| 5. Carolinian | 17. Thai |
| 6. Chamorro | 18. Tongan |
| 7. Chinese | 62 |
| 8. Cuban | 19. Vietnamese |
| 9. Filipino | 20. White |
| 10. Japanese | 21. Other/Mixed |
| 11. White | 22. No response |
| 12. Korean | 23. Hispanic or Latino |

Q132. How proficient are you in English?

1. I speak no English
2. I speak very little English
3. Conversational
4. Completely Fluent
5. Not sure



Q133. *What language(s) do you speak, including your primary language?*
(Please check each language you speak).

- | | |
|---------------|---------------------------|
| 1. English | 13. Hawaiian |
| 2. Spanish | 14. Hawaii Pidgin English |
| 3. French | 15. Sāmoan |
| 4. German | 16. Chamorro |
| 5. Italian | 17. Carolinian |
| 6. Portuguese | 18. Creole |
| 7. Arabic | 19. Crucian |
| 8. Chinese | 20. Tongan |
| 9. Japanese | 21. Other: Please list |
| 10. Korean | 22. No Response |
| 11. Tagalog | |
| 12. Hindi | |

Q134. *What religion do you consider yourself?*

- | | |
|---|-----------------|
| 1. Episcopal | 20. None |
| 2. Presbyterian | 21. No Response |
| 3. Baptist | |
| 4. Methodist | |
| 5. Lutheran | |
| 6. Christian Congregational | |
| 7. Assembly of God | |
| 8. Pentecostal | |
| 9. Seventh Day Adventist | |
| 10. Other Protestant/Non-denominational Christian | |
| 11. Mormon (LDS) | |
| 12. Catholic | |
| 13. Jewish | |
| 14. Muslim | |
| 15. Hindu | |
| 16. Bhuddist | |
| 17. Bahai | |
| 18. Atheist/Humanist | |
| 19. Other: Please list | |



Q135. Do you have a particular title, leadership, or cultural status in your community? If so, please list. [Open Ended]

Q136. Do you hold the Samoan title of matai?

Q137. Please check each group of which you a member?

1. Chamber of Commerce
 2. Environmental Group
 3. Conch Coalition
 4. MCCF
 5. OFF
 6. NAUI
 7. PADI
 8. KADO
 9. FADO
 10. SSI
 11. Last Stand
 12. Reef Relief
 13. Sanctuary Friends of the Florida Keys
 14. Local religious or community organization
- Which one? _____
15. Other, please specify
 16. No response
- Include other groups in list relevant to location.

Q138. Do you own a boat?

1. Yes
2. No
3. No response



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

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 data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. *[This means when developing each specific questionnaire the 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), NOAA Line office, (address). *[This is required information as part of the questionnaire, usually at the end]*

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