

# OMB SUBMISSION

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

Survey administered in (circle one): English or Samoan

[SCRIPT] Talofa, my name is \_\_\_\_\_ working on behalf of the National Oceanic and Atmospheric Administration (NOAA). We are interested in obtaining your opinions on some important issues related to coral reefs and the environment in American Samoa. Your household has been selected to participate.

May I please speak to the adult over 18 in your household who had the most recent birthday?

- a. Selected Person is available CONTINUE
- b. Selected Person is not available PROCEED WITH "NOT AVAILABLE" PROTOCOL, THANK CURRENT RESPONDENT, END INTERVIEW
- c. New individual comes to the door – RE-READ INTRODUCTION AND CONTINUE TO S1

S1. Are you at least 18 years of age? [S1 in 2019 SURVEY]

- a. Yes
- b. No

IF "NO", Please ask the person over 18 in your household who had the most recent birthday to come to the door. – RE-READ INTRODUCTION WITH NEW INDIVIDUAL OR PROCEED WITH "NOT AVAILABLE" PROTOCOL

IF NO INDIVIDUAL OVER 18 IN THE HOUSEHOLD EXISTS, TERMINATE THE INTERVIEW

[SCRIPT] A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-0646. Without this approval, we could not conduct this survey. Public reporting for this information collection is estimated to be approximately 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Mary Allen, National Oceanic and Atmospheric Agency, National Ocean Service, Coral Reef Conservation Program, 1305 East West Highway, Silver Spring, MD 20910, USA.

## PARTICIPATION IN REEF ACTIVITIES

[SCRIPT] This first section will focus on your ocean and marine-based activities in American Samoa.

1. On average, how many days per month do you participate in each of the following activities in American Samoa? Please answer "zero" if you don't participate in the activity. [Modified Q1 in 2019 Survey; modified Q1 in CORE MODULE; modified Q14 in Full Question Bank]

	Days per month
Swimming	
Wading	
Snorkeling	
SCUBA diving	
Free diving	
Waterside/beach camping	
Beach recreation (beach sports, picnics, etc.)	
Boating (sail, motor, etc.)	
<i>Fautasi</i>	
<i>Other self-propelled boating activities (outrigger canoe, kayak, stand up paddle boarding, etc.)</i>	
<i>Surfing (including body surfing and boogie boarding)</i>	
Inshore fishing	
Offshore fishing	
<i>Gleaning of marine resources (limu, octopus, urchins, sea cucumbers, clams, etc.)</i>	

**SKIP PATTERN—IF RESPONDENT ANSWERS 'ZERO DAYS' TO ALL ACTIVITIES RELATING TO FISHING AND GATHERING OF OCEAN RESOURCES, THEN SKIP TO #4.**

## CORAL REEF RELIANCE / CULTURAL IMPORTANCE OF REEFS

2. On average, what percent of your time spent fishing or gleaning marine resources in American Samoa is for the following purposes? -INTERVIEWER REPEATS SCALE AS NEEDED [Modified Q2 in 2019 Survey; modified Q2 in CORE MODULE; modified Q114 in Full Question Bank]

	Never (0%)	Rarely (1-25%)	Sometimes (26-50%)	Often (51-75%)	Always (76-100%)
To feed myself and my family/household					
To sell or exchange for goods and					

	Never (0%)	Rarely (1-25%)	Sometimes (26-50%)	Often (51-75%)	Always (76-100%)
services					
To give to extended family/household members and/or friends					
For recreation					
For special occasions and cultural events (fa'alavelave)					
To give to pastors or village leaders					

3. On average, what percent of your time spent fishing or harvesting marine resources in American Samoa is for the following species groups? - INTERVIEWER REPEATS SCALE AS NEEDED [Modified Q3 in 2019 Survey; Modified Q3 in CORE MODULE]

	Never (0%)	Rarely (1-25%)	Sometimes (26-50%)	Often (51-75%)	Always (76-100%)
Groupers					
Trevallies					
Parrotfish					
Surgeonfish					
Invertebrates (octopus, urchins, sea cucumbers, etc.)					

[SCRIPT] The next few questions will ask about your seafood consumption.

4. On average, how many days per month do you or your family/household eat seafood? [Modified Q4 in 2019 Survey; modified Q4 in CORE MODULE; modified Q122 in Full Question Bank]  
\_\_\_\_\_ days per month

**SKIP PATTERN - IF RESPONDENT ANSWERS 'ZERO DAYS', THEN SKIP TO #8**

5. Do you or your family/household eat seafood that is harvested from local coral reefs in American Samoa? (for example, things like parrotfish, surgeonfish, octopus, limu, and big eye scad) [Modified Q5 in 2019 Survey; modified Q5 in CORE MODULE; modified Q123 in Full Question Bank]
- Yes
  - No
  - I'm not sure what is locally caught from the reefs
  - I'm not sure where the seafood my family/household eats was harvested

**SKIP PATTERN - IF RESPONDENT ANSWERS 'NO' OR 'NOT SURE', THEN SKIP TO #7**

6. On average, how many days per month do you or your family/household eat seafood that is harvested from local coral reefs? [Modified Q5 in 2019 Survey; modified Q5 in CORE MODULE; modified Q123 in Full Question Bank]

\_\_\_\_\_ days per month

7. On average, what percent of the time do you get the seafood that your family/household eats from the following sources? - INTERVIEWER REPEATS SCALE AS NEEDED [Modified Q6 in 2019 Survey]

	Never (0%)	Rarely (1-25%)	Sometimes (26-50%)	Often (51-75%)	Always (76-100%)
Purchased by myself or someone in my household at a store or restaurant					
Purchased by myself or someone in my household at a market or roadside vendor					
Caught by myself or someone in my household					
Caught by extended family members					
Caught by friends or neighbors					

#### AWARENESS AND IMPORTANCE OF CORAL REEFS

[SCRIPT] Next, we'll ask about the importance of coral reefs in American Samoa.

8. In your opinion, how important are coral reefs in American Samoa to each of the following items? - INTERVIEWER REPEATS SCALE AS NEEDED [Combination of Q7 and Q8 in 2019 Survey; combination of Q10 and Q16 in CORE MODULE]

	Not at all important	Slightly important	Somewhat important	Moderately important	Extremely important	Not Sure
Protection from erosion and natural disasters in American Samoa						
Recreation in American Samoa						
Tourism in American Samoa						
Food for coastal communities in American Samoa						
The economy of American Samoa						
The culture of American Samoa						
You and your family's cultural beliefs and practices						

[SCRIPT] The next two questions will ask about a list of items that may potentially impact coral reefs in American Samoa.

9. First, how familiar are you with each of the following items? -INTERVIEWER REPEATS SCALE AS NEEDED [Q9 in 2019 Survey]

	Not at All Familiar	Slightly Familiar	Somewhat Familiar	Moderately Familiar	Extremely Familiar
Climate change					
Coral bleaching					
Hurricanes and other natural disasters					
Pollution from stormwater, wastewater, and chemical runoff					
Pollution from trash and littering					
Coastal/urban development					
Invasive species					
Overfishing and gleaning					
Shipping and boating					
Ocean Acidification					
Crown of Thorn starfish (alamea)					
Shipwrecking/vessel grounding					

10. Next, what impact do you believe each of these items have on coral reefs in American Samoa? -INTERVIEWER REPEATS SCALE AS NEEDED [modified Q9 in 2019 survey with concept from Q29 in the Full Question Bank]

	Extremely negative impact	Negative impact	No impact	Positive impact	Extremely positive impact	Not Sure
Climate change						
Coral bleaching						
Hurricanes and other natural disasters						
Pollution from stormwater, wastewater, and chemical runoff						
Pollution from trash and littering						
Coastal/urban development						
Invasive species						
Overfishing and <b>gleaning</b>						
Shipping and boating						
Ocean Acidification						
<b>Crown of Thorn starfish (alamea)</b>						
<b>Shipwrecking/vessel grounding</b>						

#### PERCEIVED RESOURCE CONDITION

[SCRIPT] In the next two questions, you will be presented with a series of marine resources, and will be asked to rate their condition.

11. In your opinion, how would you rate the current condition of each of the following marine resources in American Samoa? – INTERVIEWER REPEATS SCALE AS NEEDED [Q10 in 2019 Survey; Q7 in CORE MODULE; Q29 in Full Question Bank]

	Very Bad	Bad	Neither Bad nor Good	Good	Very Good	Not Sure
Ocean Water Quality (clean and clear)						
Amount of Live Coral						
Number of Fish						
<b>Amount of marine resources for gleaning (limu, octopus, urchins, sea cucumbers, clams, etc.)</b>						
<b>Access to safe swimming areas (for example, sandy bottom, no strong current)</b>						

12. Over the next 10 years, how do you think the condition of each of those same marine resources will change in American Samoa?– INTERVIEWER REPEATS SCALE AS NEEDED [Combination of Q11 and

Q12 in 2019 Survey; combination of Q8 and Q9 in CORE MODULE; combination of Q53 and Q54 in Full Question Bank]

	Worsen greatly	Worsen	No Change	Improve	Improve greatly	Not Sure
Ocean Water Quality (clean and clear)						
Amount of Live Coral						
Number of Fish						
Amount of marine resources for gleaning (limu, octopus, urchins, sea cucumbers, clams, etc.)						
Access to safe swimming areas (for example, sandy bottom, no strong current)						

13. How would you say the overall condition of the marine ecosystem in American Samoa has changed over the last 10 years? [Q11 in 2019 Survey; Q8 in CORE MODULE; Q53 in Full Question Bank]
- Worsened greatly
  - Worsened
  - No change
  - Improved
  - Improved greatly

#### ATTITUDES TOWARDS CORAL REEF MANAGEMENT STRATEGIES AND ENFORCEMENT

[SCRIPT] There are many management strategies for protecting coral reefs in American Samoa. The next few questions will ask about your opinions on these strategies.

14. First, a marine protected area (MPA) is an area of the ocean where human activity is typically restricted to protect living, non-living, cultural, and/or historic resources such as marine sanctuaries or parks, village MPAs, and private reserves in American Samoa. How familiar are you with MPAs? [Q15 in 2019 Survey; Q13 in CORE MODULE; Q36 in Full Question Bank]
- Not at all familiar
  - Slightly familiar
  - Somewhat familiar
  - Moderately familiar
  - Extremely familiar

**SKIP PATTERN—IF RESPONDENT ANSWERS ‘NOT AT ALL’, THEN SKIP TO #17.**

15. In your opinion, how has the establishment of MPAs affected the following in American Samoa?

- INTERVIEWER REPEATS SCALE AS NEEDED [Modified version of Q16 in 2019 Survey; combination of Q44 and Q71 in Full Question Bank]

	Worsened greatly	Worsened	No change	Improved	Improved greatly	Not Sure
Protection of coral reefs in American Samoa						
Number of fish in American Samoa						
The economy of American Samoa						
Fishermen's livelihoods in American Samoa						
Tourism in American Samoa						

16. Overall, how much do you support or oppose the establishment of MPAs in American Samoa? [Modified/directed version of Q17 in 2019 Survey; concept from one of the question categories in Q16 of 2019 Survey, Q14 in CORE MODULE, and Q44 in Full Question Bank]

- a. Strongly oppose
- b. Oppose
- c. Neither support nor oppose
- d. Support
- e. Strongly support

17. Next, how much do you support or oppose of the following management strategies in American Samoa? - INTERVIEWER REPEATS SCALE AS NEEDED [Q17 in 2019 Survey; Q15 in CORE MODULE; Q105 in Full Question Bank]

	Strongly Oppose	Oppose	Neither Support nor Oppose	Support	Strongly Support
Size catch limits per person for certain fish species					
Seasonal catch limits per person for certain fish species					
Stricter control of sources of pollution to preserve water quality					
Improved law enforcement for existing rules/regulations					
Incorporate traditional Samoan practices into coral reef management					
Establishing community-based village MPAs (such as village marine protected areas and community fishery management plans)					
Bans on fishing "big fish" species, such as humphead					



	Strongly Oppose	Oppose	Neither Support nor Oppose	Support	Strongly Support
<i>wrasse, giant grouper, sharks, etc.</i>					
<i>Fishing gear restrictions</i>					
<i>A tax on luxury items such as alcohol and cigarettes to support coral reef conservation efforts</i>					

**PARTICIPATION IN BEHAVIORS THAT MAY IMPROVE CORAL HEALTH**

[SCRIPT] There are also activities that you can do to help protect coral reefs in American Samoa.

18. On average, how many times per year do you engage in the following activities? – INTERVIEWER REPEATS SCALE AS NEEDED [Q18 in 2019 Survey; Q17 in CORE MODULE; Q89 in Full Question Bank]

	Number of times per year
Recycling	
Volunteering with environmental groups (e.g., beach clean-ups)	
Donating to environmental causes	
<i>Use reusable items such as cloth bags, personal straws, or personal take out containers instead of Styrofoam or single use plastic items</i>	
<i>Speak with family, church, or village leadership about environmentally responsible practices</i>	

[SCRIPT] Finally, we'll ask about sources of information on coral reefs and reef related topics in American Samoa.

19. In your opinion, how credible are each of the following sources for information on coral reefs and reef related topics in American Samoa? –INTERVIEWER REPEATS SCALE AS NEEDED [modified Q21 in 2019 Survey; modified Q20 in CORE MODULE; modified Q111 in Full Question Bank]

Sources	Not at all credible	Slightly credible	Somewhat credible	Moderately credible	Extremely credible
Friends and family					
Community leaders					
Village leaders					
American Samoa Government (ASG) agencies					

Sources	Not at all credible	Slightly credible	Somewhat credible	Moderately credible	Extremely credible
Federal government agencies					
Academic institutions/universities					
Non-profit organizations					
Church groups					

20. Of the following choices, which are your **three** most preferred ways for receiving information on coral reefs and coral reef related topics? -INTERVIEWER LIST AND CHECK THE TOP 3 **[modified Q107 in Full Question Bank]**

Ways of receiving information	Top three preferred ways
Word of mouth	
Newspapers, magazines, and other print publications	
Radio	
Television	
Online news sources/websites	
Social media	

## DEMOGRAPHICS

[SCRIPT] I just have a few more questions that will help us to interpret our results. As a reminder, the information you provide is completely confidential.

21. Do you identify as male or female? **[Q22 in 2019 Survey; Q21 in CORE MODULE; Q126 in Full Question Bank]**

- a. Male
- b. Female

22. What is your year of birth? \_\_\_\_\_ **[Q23 in 2019 Survey; Q22 in CORE MODULE; Q126 in Full Question Bank]**

23. Were you born in American Samoa? **[Modification/improvement of Q24 in 2019 Survey, Q23 in CORE MODULE, and Q134 in Full Question Bank]**

- a. Yes

b. No

24. How many years have you lived in American Samoa? \_\_\_\_\_ [Modified Q24 in 2019 Survey, Q23 in CORE MODULE, and Q134 in Full Question Bank]

25. What race/ethnicity do you consider yourself? Check all that apply. [Q26 in 2019 Survey; Q25 in CORE MODULE; Q136 in Full Question Bank]

- a. Samoan
- b. Niuean
- c. Tokelauan
- d. Tongan
- e. Fijian
- f. Other Pacific Islander
- g. Chinese
- h. Filipino
- i. Japanese
- j. Korean
- k. Asian Indian
- l. Other Asian
- m. White
- n. Black or African American
- o. Hispanic or Latino
- p. Other
- q. No response

26. What is the highest level of education you have completed? [Q27 in 2019 Survey; Q26 in CORE MODULE; Q128 in Full Question Bank]

- a. 8th Grade or Less
- b. Some high school
- c. High School Graduate, GED
- d. Some college, community college or AA
- e. College Graduate
- f. Graduate School, Law School, Medical School

27. What is your current employment status? Check all that apply. [Q28 in 2019 Survey; Q129 in Full Question Bank]

- a. Unemployed
- b. Student
- c. Employed full time
- d. Employed part time
- e. Retired

28. Do any of the following industries best fit your current or most recent occupation? Check all that apply. [Modified Q29 and Q30 in 2019 Survey; modified Q27 and Q28 in CORE MODULE; modified Q115 and Q116 in Full Question Bank]

- a. Boat building/repair
- b. Charter fishing

- c. Other recreational outfitter, including dive/snorkel/eco-tour operations
- d. Commercial fishing
- e. Marine law enforcement
- f. Ocean/coastal management, science, and/or research
- g. Ocean/coastal artisan (photographer, painter, craftsman, etc.)
- h. Ocean/coastal construction or engineering
- i. Ocean/coastal education
- j. Tuna cannery
- k. Waterfront hospitality (restaurant/hotel)
- l. Ocean/coastal dependent military (including Navy, Coast Guard, Marines)
- m. None of the above

29. How many adults aged 18 years or older live in your household, including yourself? \_\_\_\_\_ [Q31 in 2019 Survey; modified Q125 in Full Question Bank]

30. What is your annual household income? [Q33 in 2019 Survey; Q132 in Full Question Bank]

- a. Less than \$2,500
- b. \$2,500-\$4,999
- c. \$5,000-\$9,999
- d. \$10,000-\$14,999
- e. \$15,000-\$24,999
- f. \$25,000-\$29,999
- g. \$30,000-\$39,999
- h. \$40,000-\$49,999
- i. \$50,000-\$74,999
- j. \$75,000-\$99,999
- k. \$100,000 or more
- l. No Response

Thank you for taking the time to provide your responses for the NOAA National Coral Reef Monitoring Program 2020 American Samoa survey.