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?

1. Selected Person is available CONTINUE
2. Selected Person is not available PROCEED WITH “NOT AVAILABLE” PROTOCOL,

THANK CURRENT RESPONDENT, END INTERVIEW

1. 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]

1. Yes
2. 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.) |  |
| *Fautasi* |  |
| *Other self-propelled boating activities (outrigger canoe, kayak, stand up paddle boarding, etc.)* |  |
| *Surfing (including body surfing and boogie boarding)* |  |
| Inshore fishing |  |
| Offshore fishing |  |
| *Gleaning* of marine resources *(limu, octopus, urchins, sea cucumbers, clams, etc.)* |  |

***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**

1. 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 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* |  |  |  |  |  |

1. 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.

1. 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***

1. 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]
   1. Yes
   2. No
   3. I’m not sure what is locally caught from the reefs
   4. 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***

1. 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

1. 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.

1. 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.

1. 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* |  |  |  |  |  |

1. 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 *gleaning* |  |  |  |  |  |  |
| Shipping and boating |  |  |  |  |  |  |
| Ocean Acidification |  |  |  |  |  |  |
| *Crown of Thorn starfish (alamea)* |  |  |  |  |  |  |
| *Shipwrecking/vessel grounding* |  |  |  |  |  |  |

**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.

1. 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 |  |  |  |  |  |  |
| *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)* |  |  |  |  |  |  |

1. 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)* |  |  |  |  |  |  |

1. 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]
   1. Worsened greatly
   2. Worsened
   3. No change
   4. Improved
   5. 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.

1. 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]
2. Not at all familiar
3. Slightly familiar
4. Somewhat familiar
5. Moderately familiar
6. Extremely familiar

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

1. 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 |  |  |  |  |  |  |

1. 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]
   1. Strongly oppose
   2. Oppose
   3. Neither support nor oppose
   4. Support
   5. Strongly support
2. 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 wrasse, giant grouper, sharks, etc.* |  |  |  |  |  |
| *Fishing gear restrictions* |  |  |  |  |  |
| *A tax on luxury items such as alcohol and cigarettes to support coral reef conservation efforts* |  |  |  |  |  |

**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.

1. 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 |  |
| *Use reusable items such as cloth bags, personal straws, or personal take out containers instead of Styrofoam or single use plastic items* |  |
| *Speak with family, church, or village leadership about environmentally responsible practices* |  |

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

1. 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 |  |  |  |  |  |
| Federal government agencies |  |  |  |  |  |
| Academic institutions/universities |  |  |  |  |  |
| Non-profit organizations |  |  |  |  |  |
| Church groups |  |  |  |  |  |

1. 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.

1. Do you identify as male or female? [Q22 in 2019 Survey; Q21 in CORE MODULE; Q126 in Full Question Bank]
2. Male
3. Female
4. What is your year of birth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [Q23 in 2019 Survey; Q22 in CORE MODULE; Q126 in Full Question Bank]
5. Were you born in American Samoa? [Modification/improvement of Q24 in 2019 Survey, Q23 in CORE MODULE, and Q134 in Full Question Bank]
6. Yes
7. No
8. How many years have you lived in American Samoa? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ [Modified Q24 in 2019 Survey, Q23 in CORE MODULE, and Q134 in Full Question Bank]
9. What race/ethnicity do you consider yourself? Check all that apply. [Q26 in 2019 Survey; Q25 in CORE MODULE; Q136 in Full Question Bank]
   1. Samoan
   2. Niuean
   3. Tokelauan
   4. Tongan
   5. Fijian
   6. Other Pacific Islander
   7. Chinese
   8. Filipino
   9. Japanese
   10. Korean
   11. Asian Indian
   12. Other Asian
   13. White
   14. Black or African American
   15. Hispanic or Latino
   16. Other
   17. No response
10. What is the highest level of education you have completed? [Q27 in 2019 Survey; Q26 in CORE MODULE; Q128 in Full Question Bank]
11. 8th Grade or Less
12. Some high school
13. High School Graduate, GED
14. Some college, community college or AA
15. College Graduate
16. Graduate School, Law School, Medical School
17. What is your current employment status? Check all that apply. [Q28 in 2019 Survey; Q129 in Full Question Bank]
    1. Unemployed
    2. Student
    3. Employed full time
    4. Employed part time
    5. Retired
18. 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]
    1. Boat building/repair
    2. Charter fishing
    3. Other recreational outfitter, including dive/snorkel/eco-tour operations
    4. Commercial fishing
    5. Marine law enforcement
    6. Ocean/coastal management, science, and/or research
    7. Ocean/coastal artisan (photographer, painter, craftsman, etc.)
    8. Ocean/coastal construction or engineering
    9. Ocean/coastal education
    10. Tuna cannery
    11. Waterfront hospitality (restaurant/hotel)
    12. Ocean/coastal dependent military (including Navy, Coast Guard, Marines)
    13. None of the above
19. How many adults aged 18 years or older live in your household, including yourself? \_\_\_\_\_\_\_ [Q31 in 2019 Survey; modified Q125 in Full Question Bank]
20. What is your annual household income? [Q33 in 2019 Survey; Q132 in Full Question Bank]
21. Less than $2,500
22. $2,500-$4,999
23. $5,000-$9,999
24. $10,000-$14,999
25. $15,000-$24,999
26. $25,000-$29,999
27. $30,000-$39,999
28. $40,000-$49,999
29. $50,000-$74,999
30. $75,000-$99,999
31. $100,000 or more
32. No Response

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