Guidance to Apply Online for a Scientific Research and Enhancement Permit for Proposed Endangered Coral Species

July 23, 2013

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How to use this document

This document serves as guidance on how to apply **online** for a U.S. Endangered Species Act (ESA) **Section 10(a)(1)(A)** Scientific Research and Enhancement Permit for coral species **proposed** for listing as **endangered** by the National Marine Fisheries Service (NMFS).

Applications can be submitted through NMFS' online application system, Authorizations and Permits for Protected Species (APPS), which is available at: https://apps.nmfs.noaa.gov. There you will find the **APPS Online Application Instructions and Help Document** (hereinafter **APPS Instructions)** to learn how to use APPS and fill out an application. However, please use this Guidance document, which replaces Chapter 4 and Appendices VII and VIII of the APPS Instructions, and is specifically designed for applying for a Section 10(a)(1)(A) permit for endangered corals. These guidelines give specific information on corals that has not yet been incorporated into the APPS Instructions because the coral species listing determination is not final.

Please keep in mind that the final listing determination for coral species will publish after November 2013. Permits will be required to conduct scientific research and enhancement activities on species if they are listed as endangered as of the effective date established in the final rule. The coral species proposed as endangered may or may not change in the final listing rule; a permit will be required only for activities on the coral species listed as endangered in the final rule.

Although you may apply for a permit online, NMFS cannot issue Section 10(a)(1)(A) permits for coral activities until the effective date of any final listing. Because scientific research and enhancement permits can take up to a year to process, NMFS is taking this proactive measure to minimize gaps in research in the event corals are listed as endangered.

Please note that scientists working with *Acropora* species in the Caribbean (i.e., *Acropora cervicornis* and *A. palmata*) still require permitting at this time from the appropriate federal, local and state agencies (e.g., National Marine Sanctuaries, local resource agencies). These corals are currently listed as threatened species.

For more information on the proposed coral listing please visit: http://www.nmfs.noaa.gov/pr/species/invertebrates/corals.htm.

For more information on coral scientific research and enhancement permits visit: http://www.nmfs.noaa.gov/pr/permits/corals.htm.

If you have questions or need assistance with APPS, click the "Contact Us" link on APPS webpage or call 301-427-8401.

Background

This chapter describes how to use the NMFS online application system, APPS, to apply for an Endangered Species Act **scientific research and enhancement permit** for protected species under NMFS jurisdiction, including corals.

Under section **10(a)(1)(A) of the Endangered Species Act of 1973** (ESA), NMFS may issue permits for scientific research purposes or to enhance the propagation, survival, or recovery of protected marine species.

Additional federal and state laws or regulations more restrictive than the ESA may also apply to your activities and you are responsible for obtaining any other necessary permits or authorizations.

To fulfill our mandates to manage and conserve protected species, each permit application is evaluated to ensure that the work will benefit the recovery of listed species.

Permits may be valid for up to five years after issuance and will include conditions necessary to mitigate and monitor the impacts of the proposed activities.

Please note that you will need to use separate application instructions and apply by mail if you require the following permits/authorizations:

- ESA Section 10(a)(1)(B) Incidental Take Permit.

For more information on applying for this permit, click the "Permit Types" link in the APPS Features box, use the Pre-Application Guide in APPS (see below), or visit http://www.nmfs.noaa.gov/pr/permits/types.htm.

Overview

When to Apply

You should apply for a Section 10(a)(1)(A) **scientific research and enhancement permit** for endangered coral species at least **one year** prior to when you want to begin research/enhancement activities.

Processing

After an application is submitted, we will review it to determine if it is complete. Once we determine the application is complete, we will publish notice of receipt of the application in the *Federal Register* for a mandatory 30-day public comment period. We will concurrently send the application to the appropriate NMFS Regional and Science Center Offices, and other subject matter experts for review and comment as applicable.

We must evaluate activities proposed in permit applications under the National Environmental Policy Act (NEPA). We may develop an environmental assessment (EA) or environmental impact statement (EIS) if the proposed research or enhancement activities:

- are the subject of public controversy based on potential environmental consequences,
- have uncertain environmental impacts or unknown risks,
- may result in cumulatively significant impacts, or
- may have an adverse effect upon endangered or threatened species or their habitats.

An application may be returned to the applicant or processing will be prolonged if:

- the application contains insufficient information on the environmental impact of the proposed activity to determine whether an EA/EIS is necessary, or
- the information provided is insufficient to complete such analyses.

Consultations

As applicable, NMFS must request consultation with the following agencies or offices on the potential effects of certain proposed activities, as listed below:

Agency	Subject of Consultation
NMFS Endangered Species Act Interagency Cooperation Division	ESA-listed species and designated critical habitat
NMFS Office of Habitat Conservation	Essential Fish Habitat (EFH)
NOAA National Ocean Service	National Marine Sanctuaries
U.S. Fish and Wildlife Service	ESA-listed species and designated critical habitat

Issues that arise during these consultations will lengthen the permit process.

Pre-application Guide (PAG)

The PAG is a questionnaire that will guide you in determining if you need to apply to a scientific research and enhancement permit. Refer to Chapter 1 for guidance on filling out the PAG, which is required prior to applying for a permit using APPS. Upon completing the PAG, the "Results" page will indicate the NMFS permit required. Please note the Questionnaire No. shown after completing the PAG for future reference.

You have the option at this point to start an application or cancel. If you are satisfied with the results of the PAG, click the link to start an application. If you select cancel, you will have to fill and complete the PAG again before starting your application. Keep in mind that if you start an application you can save the application online as a draft and can return to APPS any time to complete the saved application.

If you have questions about the results of the PAG or about completing your application, please call the Permits Division at 301-427-8401.

General Guidance for Filling out an Application

Refer to Chapter 2 ("How to Use the System") for basic instructions for using APPS, including system requirements, creating a new account, using the **"Portfolio"** page, detailed navigation guidance, and information on saving and submitting your application.

Once you start an application, APPS will assign a file number to it. Please reference this file number in correspondence about your application (e.g., in email subject headings). When starting from your APPS portfolio page, clicking on the link of your application file number under the "File Number" column will take you to the application.

General guidelines

- **Data is not saved automatically**. APPS will display a warning message and will **time out after 20 minutes** without any activity. To avoid loss of data, save the application before APPS times out. **Save frequently** using the **"Save"** link on the screen at the top of your application. You will also be prompted to save each page when you click on the navigation links. Select **"Save"** to save new data, or **"Cancel"** to continue on to the next screen without saving.

- **You do not have to complete an application in one session**. You may save the application as a draft as long as you save before logging off or before APPS "times out" and logs you off due to inactivity. The draft application may be accessed later from your portfolio and will remain in draft mode until you complete the required fields and submit the application.

- An asterisk (*) marks a field that is required.

- Some text boxes have character limits, which includes spaces.

- You may cut and paste from other documents (e.g., Word), but special characters and formatting will be lost.

- If you would like to include figures and tables in your document you may do so attaching a separate file (see the "Project Supplemental Information Page" section below).

Navigation guidelines

- **Do not use your web browser's navigation buttons.** Doing so may cause you to lose information. Use the navigation links **"< Previous"** or **"Next >"** or the breadcrumbs at the top of the APPS screen, as described below and in Chapter 2.

- Two options are available to **navigate through the application sections**:
    - **Breadcrumb links** (represented by the title of each major section of the application) allow you to jump to other pages in the application **without having to complete the required information** prior to leaving a page (i.e., you can skip a section and come back to it later).

    - **APPS navigation links** (**"< Previous," "Reset,"** or **"Next >"**) on the right side of the pages require you to go to each screen in a sequential order, and **you are required to enter all information** prior to leaving a page.

Application Layout

New applications will open in draft/editing mode. You will navigate through a series of screens to enter information in the following sections of the application:

1) **Project Information**, **Project Description**, and **Project Supplemental Information** – this section requires specific information about your project, such as the duration and timing of your work, hypothesis/justification, and description of methods.

2) **Location and Take Information** – this section requires information about the places you are requesting to work, the numbers and types of protected species you expect to take or import, and the methods you will use to conduct your research or enhancement activities.

3) **NEPA** – this section requires information about how your activities would result in impacts on the environment, including the physical and biological aspects of the environment.

4) **Project Contacts** – this section requires information on the Applicant/Permit Holder, Principal Investigator, Co-investigators, or others that will be working under the permit.

5) **Submit** – this section allows you to view your completed application and submit it to the Permits Division for review and processing. APPS will run checks before you can "Submit" an application to ensure you have completed all required screens or data fields. You will go through steps to authenticate your identity and certify the contents of your application prior to submitting it, which requires you to provide a signature to the Permits Division.

Completing an Application using APPS

Please provide **complete and specific** information according to the instructions in this document. APPS will not allow you to submit an application if one of the **required fields** (marked with an asterisk) is not filled out. We will review the application and determine if the information provided is complete. **The Permits Division cannot process applications that do not include complete information.** We will return incomplete applications with explanation or request additional information. If we request additional information and do not receive it within 60 days, we will withdraw your application. Please note the following:

- Your application must be a stand-alone document and must clearly describe all proposed activities even when you reference published literature.

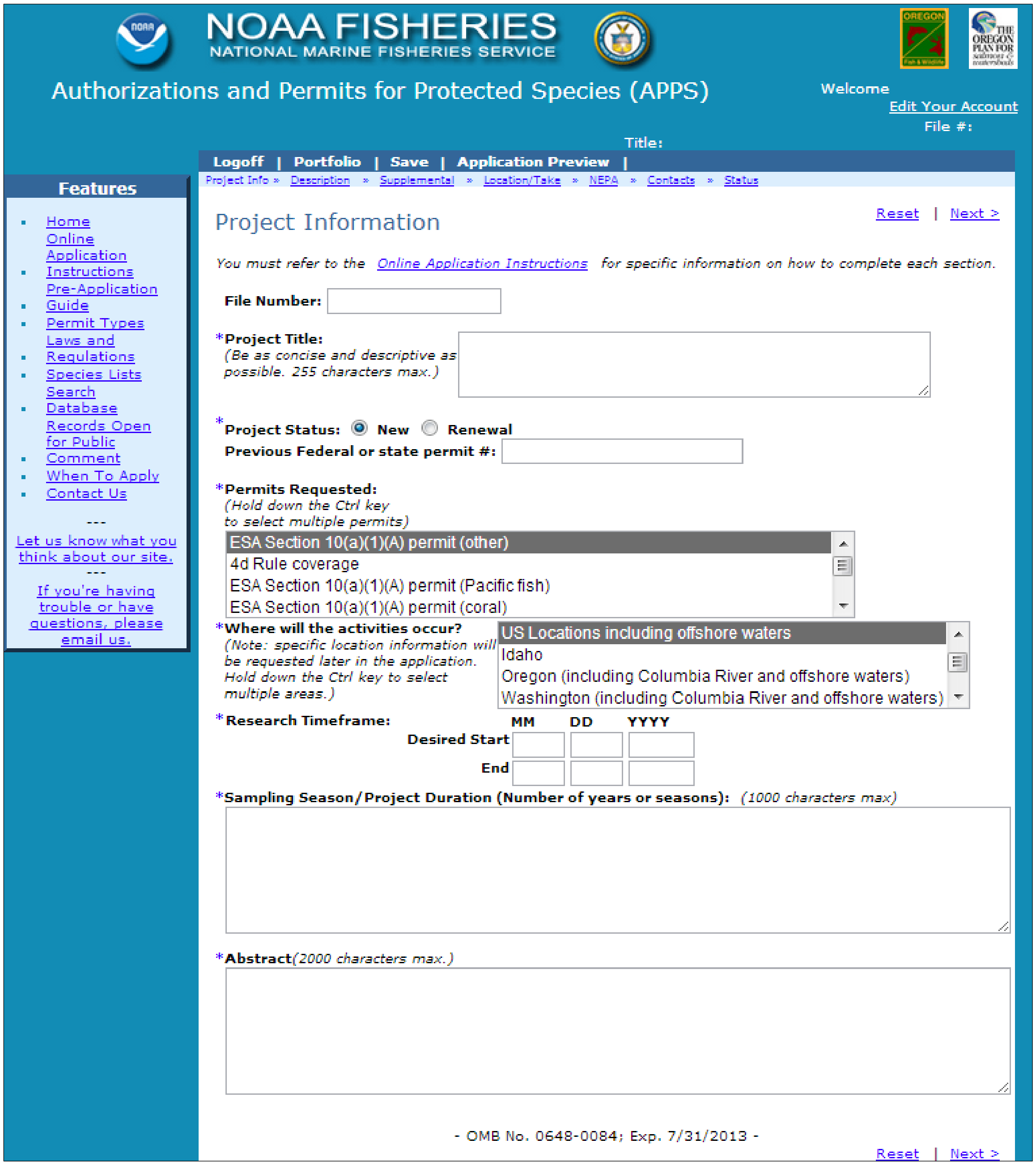
- When a question does not apply, please indicate "Not Applicable" or "N/A" and provide a brief explanation as to why if the space is provided.

- Please avoid the use of technical jargon when possible because your application will be available to the public for review.

- You are encouraged to contact the Permits Division at 301-427-8401 with questions in advance of submitting your application.

The following details the information needed for each section identified in the above Application Layout.

Project Information Page



File Number

This number is automatically generated by APPS and cannot be changed. Use this number in correspondence about your application (e.g., in email subject headings).

Project Title (enter up to 255 characters)

Describe the project as concisely and descriptively as possible. Include the species (or taxa if multiple species), the study's geographic range, and purpose. For example:

- *"Characterizing the Population Structure, Forging Ecology, and Movement Patterns of Green Sea Turtles in the Gulf of Mexico."*

Note: If working on a draft application, we strongly recommend you enter a project title before logging out of APPS.

Project Status

Project status ("New" or "Renewal") is automatically selected based on your answers in the pre-application guide (PAG). Do not change this field.

Previous Federal or state permit #

If applicable, please enter your most recent Federal or State permit number. If you have/had more than one permit, enter the permit most closely related to this application.

Permits Requested

One or more items will be listed based on your answers in the PAG. If the options listed are incorrect, please call the Permits Division at 301-427-8401 for assistance.

Where will the activities occur?

One or more general locations will be listed based on your answers in the PAG. If a location is incorrect, please call the Permits Division at 301-427-8401 for assistance.

Note: You will have the opportunity to provide more specific location information on subsequent pages.

Research Timeframe

Enter the desired start and end dates of the entire project in the following format: MM/DD/YYYY. Note that an application can take a year to process; see the "When to Apply" section above and provide realistic dates based on processing time.

- The start date must not be prior to the date you successfully submit the application.
- The end date must be within five years of the start date (the maximum amount of time a permit may be valid).
- You may enter more specifics on your project dates/field seasons in the space provided under the "Sampling Season/Project Duration" section described below.

***Sampling Season/Project Duration** (enter up to 1,000 characters)

Describe the annual sampling season(s) and the duration of the project. Include the months of the year and frequency of fieldwork/sampling (e.g., how many times per year and how frequently will you sample?).

If your research extends beyond five years, or is a continuation of previously authorized research, enter information here about when the research began and when you expect it to end.

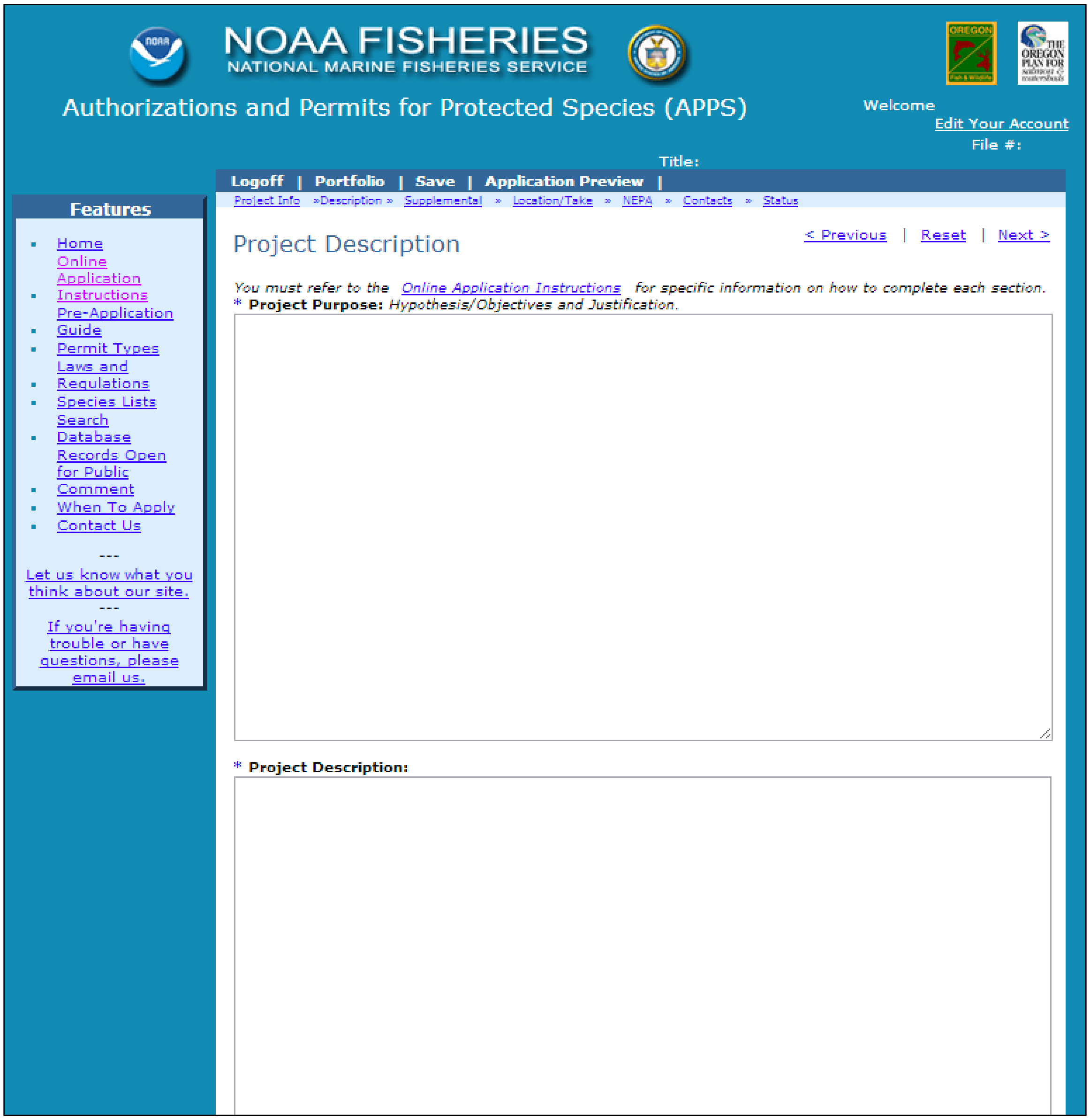
***Abstract** (enter up to 2,000 characters)

Provide a brief summary (approximately 200 words) of the proposed research and/or enhancement project. We will publish this summary in the *Federal Register* Notice of Receipt that initiates the 30-day public comment period. The summary should include **concise** statements of the following information:

- Purpose of the research or enhancement activity;
- Target species (common and scientific names);
- Type of take activities (e.g., collection), import and/or export;
- Numbers of animals to be taken for each activity or number of animals from which specimens will be imported and/or exported, by species or taxa (over a specified time, e.g., per year);
- Numbers and kinds of non-target species, including those listed under the ESA, that may be taken incidentally;
- Specific geographic location(s), including locations from which animals or specimens will be imported or to which they will be exported, if applicable; and
- Requested duration of the permit (e.g., five years).

After you have completed this page, save and click **"Next >"** or click the **"Description"** breadcrumb at the top of the APPS page to move to the next page.

Project Description Page



***Project Purpose: Hypothesis/Objectives and Justification** (no text limit)

Answer the following questions:

- What are your objectives?
- What is the expected significance of your proposed activities?
- For research, what is the hypothesis being tested?
- For enhancement, how will your activities enhance the survival or recovery of the species in the wild?

Include background information discussing relevant published literature on the subject of your proposal, with citations. Describe how your proposed work is different from, builds upon, or duplicates past research or enhancement activities. Some aspects to include:

- Established knowledge and ideas related to your proposed research/enhancement.
- Whether the activities you are proposing are different from or build upon the proposed studies.
- How your proposed work would not be unnecessarily duplicative.
- If you have previously held or worked under a permit, discuss how your past findings have contributed to the body of knowledge on the subject and how they relate to your proposed objectives.

Describe why your work cannot be accomplished without taking protected species.

Justify your sample size. Include a power analysis or other sample size estimation to determine whether the sample size is sufficient to provide statistically significant or otherwise robust results appropriate for your research study.

For each species, demonstrate how your research activity would contribute to the basic knowledge of the biology or ecology of the species, or how your activity will identify, evaluate or resolve conservation problems.

As applicable, also address the following:

For **ESA-listed** species:

- Why must your study involve ESA-listed species? Discuss the use of possible alternatives (e.g., surrogate species).
- How will your project contribute to the objectives identified in the species' recovery or conservation plan? Please be sure to identify specific priorities of these plans.
- Does your project have broader significance than your individual goals? For example, does your project respond to recommendations (other than those listed in a recovery or conservation plan) of a scientific body charged with management of the species? If so, describe.
- If there is no recovery or conservation plan, how and to what degree will your project otherwise contribute to conservation and/or recovery of the species?
- How will your research directly benefit the species or fulfill a critically important research need?
- How will your enhancement activities contribute to maintaining or increasing distribution or abundance, enhance the health or welfare of the species, or ensure the survival or recovery of the species in the wild?

- Will captive maintenance for enhancement maintain a viable gene pool, increase productivity, provide necessary biological information, or establish animal reserves?
    - How does the benefit of removing animals from the wild into captivity outweigh alternatives that do not require removal from the wild?
    - What plans are in place for returning animals and any offspring to the wild? If animals are going to remain in permanent captivity, additional justification is required.

***Project Description** (no text limit)*

This section should clearly describe the methods you will use, the number of animals you will take, and the locations in which you will take them. This section should provide the reader with a clear picture of what will systematically happen during a typical day/field season of research or enhancement activities.

Describe the **number of individuals, by species, life stage (e.g. gametes, adults), manner, and location** in which you will take[1] animals and animal parts/specimens over a specified period (i.e., annually or per field season if less than one year).

If you will take the same animals **in more than one manner**, list the number of animals (i.e., colonies) and all procedures that you would conduct.

If individual colonies will be **taken more than once** (e.g., multiple sampling of the same coral colony), indicate the frequency and type of take activity per individual per year or per field season if less than one year.

Provide **detailed methods** for each take activity, including but **not limited to** descriptions of the following (See *Appendix VII for corals* for additional information):

- Captive experiments and captive maintenance
- Counts/surveys
- Collection of corals (dead or live including gametes/larvae)
- Field planting
- Field studies
- Marking or tagging
- Response and restoration

Please make sure your methods are detailed enough for us to evaluate potential effects. Refer to *Appendix VIII for corals* for guidance on what level of detail is required.

[1] A take under **ESA**, a take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to do any of the preceding.

Cite **references** for the methods where applicable, but do not substitute a literature citation in lieu of a complete description of the methods. Note that a document with the references list can be attached to your application on the "Supplemental Information" page. In addition, you may also attach **figures or photographs to illustrate** your methods as a separate document here. See below for instructions on attaching files.

Include the **purpose of each take activity** (including the purpose of specific samples taken). How do each of these take activities relate to meeting your objectives?

Indicate the **estimated number and type of non-target species** that you may affect each year, and the manner in which you may affect them during your research. This includes marine mammals[2], ESA-listed species, sea birds, sharks, plants, etc. If you were to encounter a non-target species in the same area of your study but you do not expect to affect them in any way, please describe why and any actions you will take to prevent impacts (e.g., not in area during time of study; would not approach closer than 100 meters; would halt operations until non-target species moved out of study area).

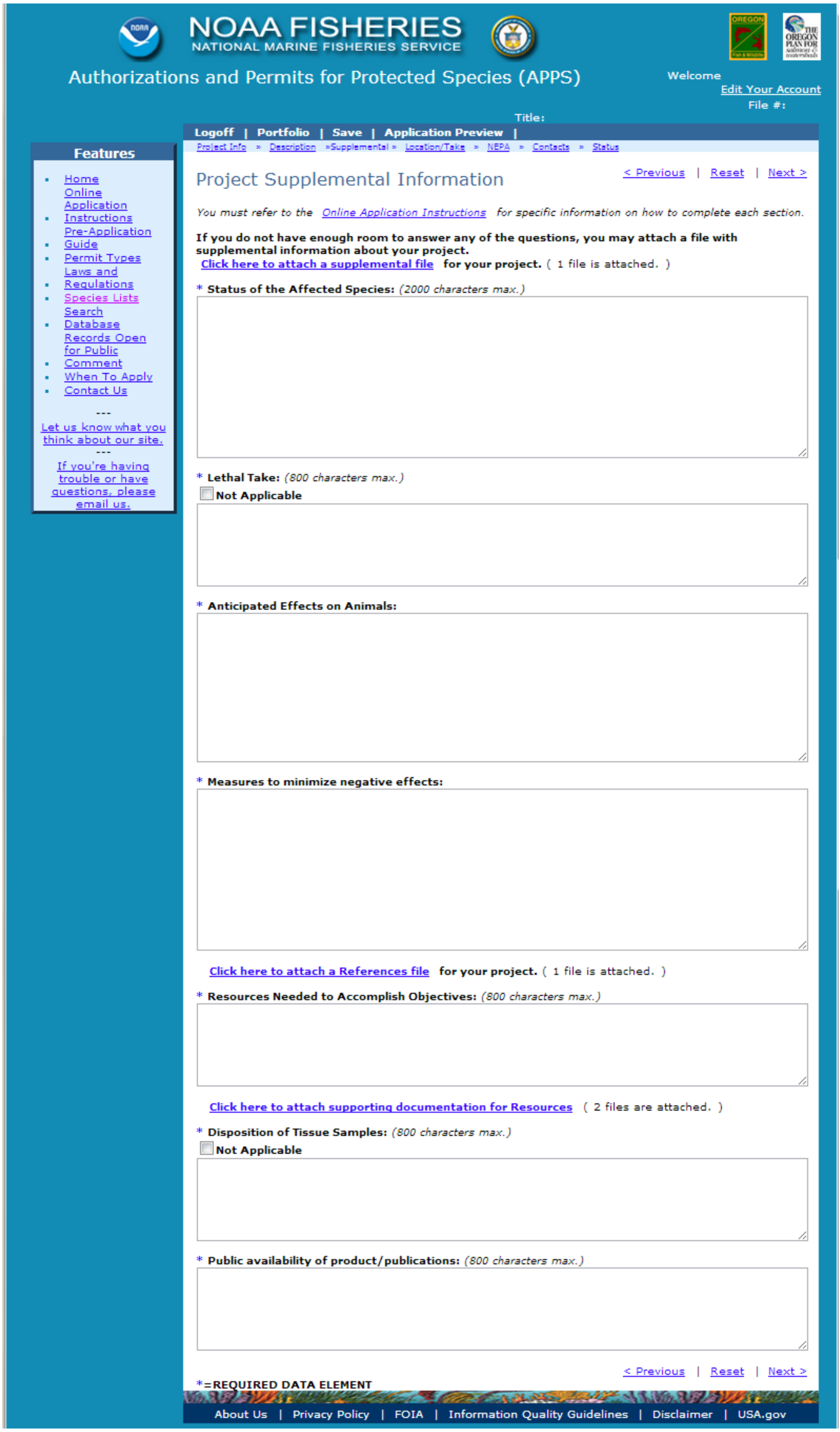
Describe how your proposed activities coincide with or avoid sensitive biological periods such as reproductive seasons of both target and non-target species.

For import and export activities, answer in detail the following:

- What methods will be used to take samples from animals (live or dead) in foreign countries?
- If samples will be obtained from dead animals, describe how the animals died or the method in which they were killed.
- What is the authorizing government agency for the legal collection of animals or specimens in the country of origin? Be prepared to provide documentation regarding the legality of the take in the country of origin for your annual reports.
- What are the shipment/transport methods, including safe handling protocols? What are the methods for sample preservation, analysis, and curation (for samples not destroyed in analyses), including safety protocols for laboratory work?

[2] Marine mammals are protected by the Marine Mammal Protection Act (MMPA). Under the MMPA, a "take" means to harass, hunt, capture, collect, or kill, or attempt to harass, hunt, capture, collect, or kill any marine mammal. This includes, without limitation, any of the following: The collection of dead animals, or parts thereof; the restraint or detention of a marine mammal, no matter how temporary; tagging a marine mammal; the negligent or intentional operation of an aircraft or vessel, or the doing of any other negligent or intentional act which results in disturbing or molesting a marine mammal; and feeding or attempting to feed a marine mammal in the wild.

Project Supplemental Information Page



NOAA FISHERIES
NATIONAL MARINE FISHERIES SERVICE

Authorizations and Permits for Protected Species (APPS)

Welcome
Edit Your Account
File #:
Title:

Logoff | Portfolio | Save | Application Preview |

Project Info » Description »Supplemental » Location/Take » NEPA » Contacts » Status

Features

- Home
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Let us know what you think about our site.

If you're having trouble or have questions, please email us.

Project Supplemental Information

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You must refer to the Online Application Instructions for specific information on how to complete each section.

If you do not have enough room to answer any of the questions, you may attach a file with supplemental information about your project.
Click here to attach a supplemental file for your project. (1 file is attached.)

* **Status of the Affected Species:** *(2000 characters max.)*

* **Lethal Take:** *(800 characters max.)*
☐ **Not Applicable**

* **Anticipated Effects on Animals:**

* **Measures to minimize negative effects:**

Click here to attach a References file for your project. (1 file is attached.)

* **Resources Needed to Accomplish Objectives:** *(800 characters max.)*

Click here to attach supporting documentation for Resources (2 files are attached.)

* **Disposition of Tissue Samples:** *(800 characters max.)*
☐ **Not Applicable**

* **Public availability of product/publications:** *(800 characters max.)*

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***=REQUIRED DATA ELEMENT**

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How to Attach a Supplemental Information File

If you do not have enough room to answer any of the questions in this or the other sections, you may attach files to complete a section or sections at the beginning of the "Project Supplemental Information Page."

- To attach a file, use the **"click here to attach a supplemental file"** link.

- An **MS Word** file is the preferred format, but formats such as PDF, MS Excel, Word Perfect, and ZIP files are also acceptable.

- An **attachment may not be larger than 10 MB and you may attach up to 10 files**. If you have a larger document, reduce the size by removing material that is not essential for the review of your application.

- Once you have attached a file, the screen will display text indicating that a file is attached. You may need to refresh the screen to see this after hitting "save."

Please note that there are additional areas in the application to attach a References file, maps, grant proposals, and supporting documentation for Resources.

Status of the Affected Species (enter up to 2,000 characters)

As applicable, indicate the status of each target species as follows:

- ESA - threatened or endangered
- Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) - Appendix I, I, or III

Species information is available at the following web sites:

- http://www.nmfs.noaa.gov/pr/species
- http://www.fws.gov
- http://www.cites.org

Lethal Take (enter up to 800 characters)

If you **do not** expect to kill or seriously injure any animals, intentionally or unintentionally, click the "Not Applicable" check box and leave the larger text box blank.

If **intentional** lethal take is involved, provide an explanation of why a non-lethal method is not feasible or why lethal take is unavoidable. For ESA-listed or species, also describe how the results will directly benefit the species or fulfill a critically important research need.

- Provide methods of lethal take, number of animals to be taken per year, and protocols for tissue collection, analysis, and carcass disposal if not previously described in the "Project Description" section.

Note: Requests to euthanize animals are considered intentional lethal takes.

If **unintentional** mortality of target or non-target species is possible incidental to, or as a result of, the proposed activities, indicate the following if not previously described in the "Project Description" section:

- Maximum number of animals from each species that could die or be seriously injured per year and how you arrived at that number;

- Potential ways that animals may die incidental to the proposed activities; and

- Protocols for tissue collection, analysis, and disposal.

Note: Unintentional mortality refers not only to a death during research, but also to those that succumb at a later time.

Anticipated Effects on Animals (no text limit)

- What are the anticipated effects of each of the activities alone or cumulatively on the behavior and physiology of the target animals? How will animals react to your actions and what are the consequences of those reactions? Identify both short- and long-term potential effects. Examples of effects include increased risk of disease, impacts to reproduction, reduced growth rates, and death. Discuss the duration of these effects as it relates to recovery to pre-research state. For example, describe the typical time for core sample sites to heal, or branches to regrow.

  Note: If you have conducted this work previously, please clearly describe and quantitatively summarize the types of reactions of animals from past research. Include citations for any relevant references and be prepared to provide copies if requested. Annual permit reports and other non-published works are acceptable citations.

- What are the anticipated effects on the population as a whole? On what is your determination based?

- Summarize any mortalities that have occurred during the previous five years of research or enhancement activities conducted by you using the same or similar techniques, including circumstances involved and cause of death.

- Describe how conspecifics or non-target species (e.g., sea turtles or marine mammals) in the study area may react to or otherwise be affected by your activities (e.g., will you encounter them on your way to or from the study site and if so, how will you avoid affecting those species?).

***Measures to Minimize Negative Effects** (no text limit)

- For each activity, what measures will you take to minimize impacts to wildlife? Provide information for both target and non-target species (e.g., plants, fish, coral). Describe measures you will implement to ensure your activities are conducted in a humane manner, with minimal disturbance, stress, and harm to the subject animals. Explain how you determined your methods are those that will have the least potential for stress (e.g., summarize your alternatives search).

- Indicate what short- and long-term post-procedure monitoring you would conduct to evaluate the effects of your activities and/or to ensure animals have recovered.

- What efforts will you make to collaborate or coordinate research with others in your study area? Explain how this will occur and how it will minimize impacts. For example, will it involve sharing resources, samples or data; timing surveys, etc.?

- If the proposed activities may cause stress, discomfort, pain, suffering, injury, or mortality, you must explain why there are no feasible alternative methods to obtain the desired data.

Note: Where an IACUC (Institutional Animal Care and Use Committee) review is required by your institution, include a copy of the protocols submitted to the IACUC, and the signed approval and comments. If the protocols have not been approved, indicate the status.

Discuss what measures you will take to avoid or minimize adverse impacts for each procedure.

For example, describe measures you will take to minimize polyp mortality or colony damage. Be sure to discuss how these measures would vary by species.

Explain how you will monitor colonies for signs of adverse effects, including what factors you consider indicative. Describe how effective your monitoring will be at detecting adverse effects.

If monitoring or mitigation are not feasible for specific procedures, species, situations, etc., explain why.

How to Attach a References File

If your application contains citations to published work, you must include a list of references. References contain bibliographic information that would allow a reader to obtain a copy of the referenced work.

> **Note**: Referenced materials must be made available to the Permits Division upon request, as needed for evaluation of the application, or preparation of any necessary ESA and/or NEPA analyses. Note that all documents referenced in support of your application must be available to the public upon request. Do not reference confidential documents, or other information you are not willing to provide to the public at the time your application is submitted.

***Resources Needed to Accomplish Objectives** (enter up to 800 characters and attach file if necessary)

Explain how your expertise, facilities, and resources are adequate to successfully accomplish the objectives and activities stated in your application.

Include the name and address of sponsors, cooperating institutions/researchers, or contractors, if not listed as Co-investigators on the application, and clearly indicate their role.

If the proposed take activities will be conducted by a contractor, provide a statement as to whether a qualified member of your staff (include name(s) and qualifications) will supervise or observe the taking. Attach copies of any relevant formal research proposals, contracts, or letters of agreement that would demonstrate the financial or logistical resources available to you to conduct and complete the proposed activities.

Indicate whether you have applied for, secured, or will apply for other federal, local, or state permission to conduct your proposed work, and what those approvals include.

> **Note**: You may add an attachment here for funding proposals, letters of agreements, lists of cooperators and their roles, etc.

***Disposition of Tissue Samples** (enter up to 800 characters)

If you will not collect, receive, possess, transport, or import/export tissue samples, click the "Not Applicable" check box and leave the text box blank.

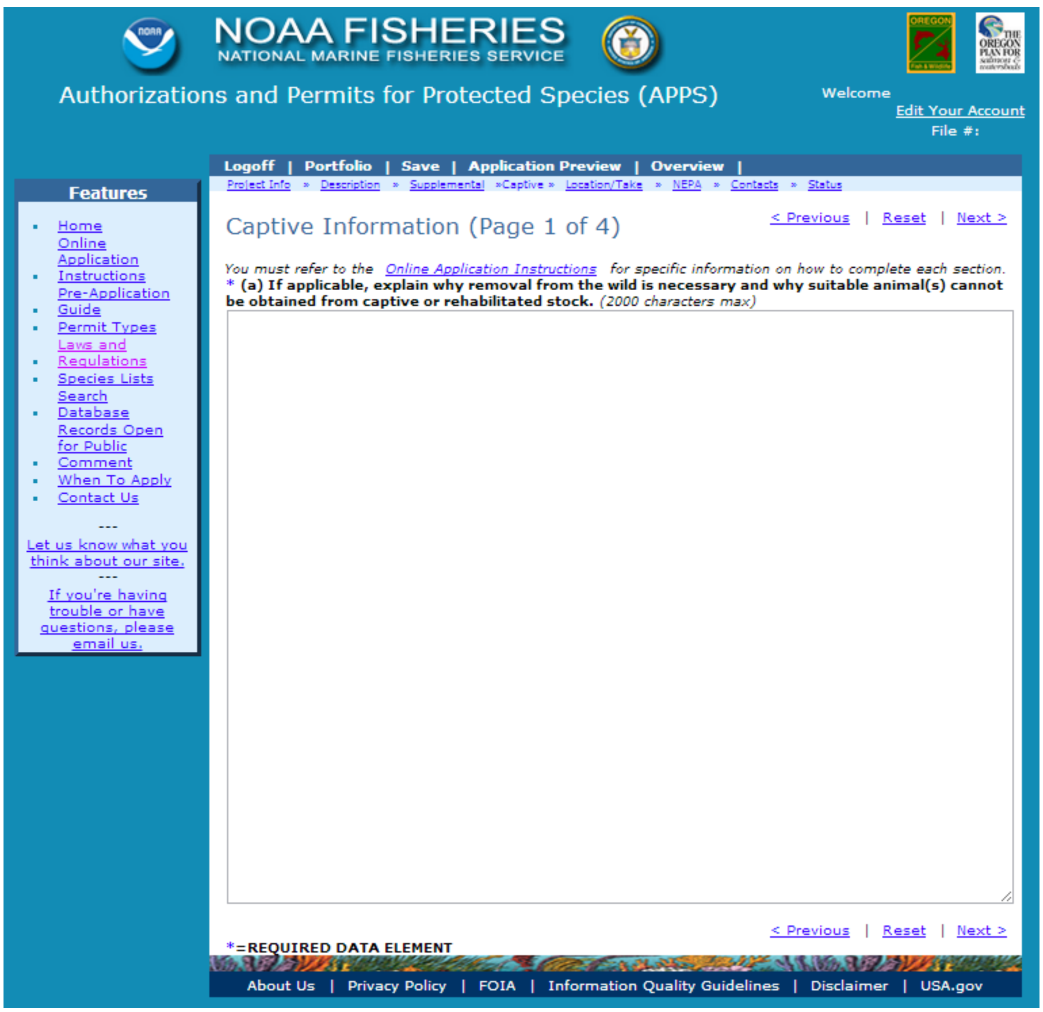
This section is applicable if you will collect, receive, possess, transport, or import/export tissue samples. Provide a description of the disposition of any parts or samples remaining after the research or enhancement activities are complete. If you have made arrangements with a museum or other institutional collection to ensure that remaining tissues will be available for scientific research or enhancement purposes, include information on where the samples will be stored, transferred, and how/when/where they will be disposed. Include contact information for each of researchers, laboratories, museums, and/or institutional collections that would receive these tissue samples or specimens. If you will not retain or transfer samples, state whether samples will be consumed in analysis or will be destroyed after analysis.

Public Availability of Product/Publications (enter up to 800 characters)

Describe the end product(s) of your proposed research and how they will be made available to the public.

After you have completed this page, save and click **"Next >"** or click the "Location/Take" breadcrumb at the top of the APPS page to move to the next page.

Captive Information Pages



If your research or enhancement activities include working with animals in captivity you will be **required** to provide additional information. The following are the questions in the order they appear in APPS. Keep in mind that these are general questions also requested for research of other captive organisms (e.g., mammals); therefore, answer the questions as applicable or write **"N/A"** where a space is provided if the questions are not applicable to your activities. In some of the questions you may attach a file.

(a) If applicable, explain why removal from the wild is necessary and why suitable animal(s) cannot be obtained from captive or rehabilitated stock. (2000 characters max)

(b) If applicable: If the source stock is to be beached/stranded marine mammals undergoing rehabilitation, indicate the name and location of the rehabilitation facility. (1000 characters max)

> *This question doesn't apply to coral species. Please write "N/A" in the space provided.*

(c) If applicable: **If the source stock is from** marine mammals or **endangered species already in captivity** (other than beached/stranded animals) **indicate the name and location of the facility,** and identify the specific animals (by NOAA ID number where applicable) **involved in the proposed activity**. (1000 characters max)

(d) Where applicable, include a copy of any license or registration issued by the Animal and Plant Health Inspection Service (APHIS) of the U.S. Department of Agriculture, and any outstanding variances granted by APHIS, and the most recent APHIS inspection report.

> *Coral applications: For this question you **may** attach a file.*

(e) Where applicable, include the proposal submitted to the appropriate Institutional Animal Care and Use Committee (**IACUC**) established under the Animal Welfare Act (**AWA**), the IACUC approval, and any comments and recommendations of the IACUC. Please note: The PI, CIs, or other individuals listed in the application cannot vote during the IACUC review of the application (9 CFR 2.31 (d)).

> *Coral applications: For this question you **may** attach a file.*

(f) Provide a written **statement from** the responsible veterinarian or **expert** certifying that the facilities, methods of care and maintenance, and methods of transport will be adequate to ensure the well-being of the animals and, where applicable, comply with all care and transport standards established under the AWA.

> *Coral applications: For this question you **MUST** attach a file.*
> *For purposes of coral activities in captivity an expert is a person with extensive knowledge or ability to maintain corals in captivity.*

(g) If applicable, describe the care and maintenance of the animals, including a complete description of the facilities where they will be maintained. This includes the dimensions of the pools or other holding facilities and the number, sex, and age of animals by species to be held in each; the water supply, amount, and quantity; sanitation practices; and qualifications and experience of the staff.

> *Coral applications: Please provide life-stage of the organisms, which replaces "age of animals".*

(h) Indicate whether a **captive breeding program will be established** and if so, provide **justification** in accordance with the **species conservation** or recovery plan, if applicable. For non-mammal ESA-species**, indicate if you are willing to participate in a captive breeding program if requested by NMFS**. (1800 characters max)

(i) Indicate the disposition of captive animals at the termination of research or enhancement activities. (1800 characters max)

(j) If release of captive animals to the wild is proposed, state the length of time the animals will be held and describe the protocols for the release, including post-release monitoring protocols. Include in the release protocol mitigation for the following:

- Disease transmission between released animals and the wild population,
- Potential genetic exchanges between introduced and endemic stocks,
- Ability of the released animals to forage and protect themselves from predators,
- Elimination of behavioral patterns acquired during captivity that could prove detrimental to the released animals or the social structure of local populations.

Project Locations and Take Information Pages

On the main **"Project Locations and Take Information"** page, you can describe your location, add new locations, edit or delete existing locations, add or edit take information, and view your defined locations.

The **"Project Locations and Take Information"** page will first prompt you to **"Add New Location"** and this will allow you to provide more information about where you will be working, based on the results of your PAG.

Once you have entered one or more locations, the lower part of the **"Project Location and Take Information"** page will display them. You will then have the option of adding another location, editing or deleting a location, or adding/editing the take information for a location. You will use the **"Take Information"** page to describe the species you will encounter and the procedures you will conduct at each location.

How to Add a New Location

Follow these steps to add location information:

1) **Add New Location**: Click on this button to add a location and enter that location information. This will take you to a "Project Location Information" page.

> ⚠ *You must enter **multiple locations** if you will be working in different places (e.g., multiple oceans or rivers). You will enter each location **separately** and each will have an affiliated take table.*

2) ***Select the general area**: Next, use the drop-down menu to choose a general area where you will be working (this may be automatically populated based on information in the PAG). You can only enter one general area at a time.

   Note: If you are requesting to **receive or import/export parts** of animals, **select the "Parts" option as your location.** On the Location Details page (see step 4), enter the country of import/location of sample origin, and to where samples will be shipped/exported in the Location Description box.

   If you are requesting to **work with captive animals**, including those in rehabilitation, select the **"Captivity" option as your location.** On the Location Details page (see step 4), enter names of captive facilities in the Location Description box. You will provide more details in the "Captive Information" section, described above.

   Please note that NMFS does not have jurisdiction in the **territorial** waters of another country and therefore cannot authorize the take of protected species in those waters. For U.S. citizens, activities beyond territorial waters are considered to occur on the high seas and need coverage by a NMFS permit.

3) ***Select the state(s)**: If applicable, this second drop down menu will be visible. Choose all applicable states for the general area by holding down the Control key and clicking on all applicable states.

> ⚠ *If the correct geographic choices do not show up, please contact the Permits Division at 301-427-8401.*

4) **Enter Location Details**: Click this button. Enter information on this page as it applies (disregard any non-applicable fields). Use the "Location Description" box (up to 255 characters) to briefly describe your study for each take table. Information on this page includes:
   - Under "Waterbody," enter names of rivers, estuaries, bays, etc.
   - Latitude and longitude of your study area
   - River miles ("Begin Mile" and "End Mile")
   - Limits of your study area (e.g., to the U.S. EEZ, to the edge of the continental shelf, to 50m depth)
   - Names of land masses where research will occur (e.g., islands, rookeries)

5) **Attach File**: Click on this link to attach maps or other information to provide detailed descriptions about the locations where you will be working. If you have

multiple study areas and species, identify species locations on a map. Formats such as PDF files, MS Excel, MS Word, and Word Perfect are acceptable. The attachment may not be larger than 10 MB. If you have a larger document and cannot reduce the size, please fax this document to the Permits Division at 301-713-0376.

6) You may enter all the locations where you are requesting to work at one time, and then go back to enter the takes associated with those locations; or, you can enter a location and go straight to entering the takes for that location.

How to Edit or Delete a "currently defined" Location

Follow these steps to edit or delete location information:

1) **Edit/Delete Location**: From the "Project Locations and Take Information" main page, click on this button to edit location information you entered or to delete a location.

2) This will take you to the "Project Location Information" page. Here you can edit any information previously entered on this page. Select **"Save"** to save your changes.

3) **Delete Location**: Clicking on this button will delete the location specified on the "Project Location Information" page. A pop up box will ask if you want to delete. Click "OK" to delete and "Cancel" to cancel the deletion.

> ***Deleting a location will also delete all associated takes*** *(if entered) with that location. You will get a warning message to confirm that you want to delete a location.*

How to Edit or Add Take

Follow these steps to add or delete take information:

1) **Edit/Add Take**: From the **"Project Locations and Take Information"** main page, click on this button to edit or add take information. This button will take you to the **"Take Information"** page. You may also click on the **"Next >"** link from the **"Project Location Information"** page to get to the **"Take Information"** page.

2) On this page you will enter the species to be taken, by life stage, the number of individuals, methods (e.g., capture, intrusive procedures), and sample dates (See *Entering Take Information* section below).

   Note: All data fields in the take table require entries and the information must be specific to the location listed at the top of the page. If you have more than one location, each location will have a separate take table. **Save your data often so that information is not lost.**

The **“Take Information”** page has three parts:

- The top of the page identifies which location you are working on;
- The middle has editing tools (buttons) that allow you to add, edit, delete, copy, and re-organize take records in the take table; and
- The bottom has the take table.

You will create a separate record row for each unique combination of species, production type (wild or captive), life stage, take action, capture method, and procedures.

The take table is a large landscape format. Depending on the size of your screen you may need to use the right and left scroll arrows to complete the table.

The following are the take table editing tools (Buttons) and the description of each:

- **Add More Lines**: Clicking this button allows you to add more lines (rows) to the take table. You can only add more lines if at least one row contains data.

- **Edit Selected Records**: Use this to “unlock” or “unfreeze” selected rows in the take table so that you can edit information you have previously entered and saved. You must first put a check in (click on) the “**Select”** box at the far left of each row you want to edit. Click on the **Save** button to save your edits.

- **Delete Selected Records**: Clicking on this button allows you to delete selected take rows from this location. You must first put a check in (click on) the “**Select”** box at the far left of each row you want to delete. Click on the **Save** button to save your edits.

- **Copy Selected Records**: This tool allows you to copy selected take records to the current location, another location within the same general area, or a location in a different general area. You must first put a check in (click on) the “**Select”** box at the far left of each row you want to copy.

  Note: The “Copy Selected Records” function is useful if you are conducting the same activities on multiple species (e.g., enter all the procedure information for one species, copy that row, and then edit the record as needed).

- Clicking on the **Copy Selected Records** button will open a new window. **You may choose to go to a new location (i.e., a separate take table) after you copy the records or stay at the location you are in by selecting those radio button options** in the “Copy Take Records” pop up window.

a) **If you copy the takes within the current location**, you will make duplicate copies of the selected rows. The copied records will appear at the bottom of the take table. You must make some changes to the copied rows or you will receive a "duplicate records" error message.

b) **If you copy the takes to a new location (e.g., a state) within the same general area (e.g., Atlantic Ocean)**, the information you have entered will be saved, you will be taken to a new location information page, and all the take information from the previous location will already be entered. In order to distinguish the new location from other locations, you must make sure that at least one of the location descriptors is unique.

c) **If you copy the takes to a new location in a new general area** (e.g. Atlantic Ocean to Pacific Ocean), you will be taken to a blank location page. Once you enter the location information and click the **Edit/Add Take** button, you will go to the "Take Information" page and you will see all the takes you copied from the previous location.

d) **If you copy the takes to another location you have already created**, you will be taken to that location page and all the take information you copied from the previous location will already be entered. The records will appear at the bottom of the take table.

- **Copy All Records**: This function allows you to copy all take records to the current location, a new location within the same area, a new location outside the area, or to another location you already created. See the information in the "Copy Selected Records" section above for more details about the options.
  Note: You may choose to go to the new location after you copy the records or stay at the location you are in by selecting those radio button options in the "Copy Take Records" pop up window.

- **Re-number lines**: Each line in the take table is numbered. If you delete one or more records, click this button to re-number the remaining lines consecutively. This tool also re-orders the rows alphabetically by species' common name and population name.

- **Edit Location**: Clicking on this will take you back to the "Location Information" screen for editing (effectively "unlocking" the location in the top portion of the page).

- **Save**: This button saves all edited or updated take information. **Save often** in case of interruption or computer problems, and save before navigating to another page.

- **Export to Excel**: This button allows you to export your take table to Microsoft Excel.

How to Enter Take Information

The take table represents **annual** takes for the duration of your project. The takes you enter *for a location* are displayed in a table in the lower part of the page. If you have not entered any take information, the table is blank (except for automatically entered begin and end dates). You must enter at least one row for every location. Enter the following information to add takes for each location in the application.

> **Note:** The options that appear in the dropdown menus in the take table are based on the species group (e.g., corals) you indicated in the PAG, the location that you have selected, and the individual species that you select. If you are having difficulties, please first check that your location was entered correctly. See *Appendix VII for corals* for a list of the options that appear in the take table drop down menus.

Columns in the take table appear in the following order:

1) **Select**: Leave this box blank unless you need to copy, move, or delete the line following the instructions above.

2) **Line**: Each line/row in the Take Information section is automatically numbered. If you make changes to the take table (e.g., delete a line), you may renumber the lines in consecutive and alphabetical order following the instructions above.

3) **Species**: Use the drop down list to select one species. Coral species are listed alphabetically by scientific name. If the species you are looking for is not on the drop-down menu, double check your location (species are populated based on location). If you are still having problems, contact the Permits Division at 301-427-8401.

   Note: For a complete list of species, click on the "Species Lists" link on the Features menu (you will have to navigate back to the "Project Location" page).

4) **Listing Unit/Stock**: Use the drop-down list to select which listed population you are working with:
   - Caribbean/ Western Atlantic/Gulf of Mexico (NMFS Proposed Endangered)
   - Caribbean and Western Atlantic (NMFS Proposed Endangered)
   - Indo-Pacific (NMFS Proposed Endangered)
   - Eastern Pacific (NMFS Proposed Endangered

5) **Production/Origin**: This refers to the source of the corals you plan to work with. Use the drop-down list to select "wild" or "captive". Choose "wild" if your samples/individuals will be acquired from or studied in the wild. Choose "captive" if your samples/individuals are currently in a controlled environment (including in-water nurseries). If you will be entering take information for both "wild" and "captive" samples/individuals of the same species, you will need to enter a separate row for each one.

6) **Life Stage**: Use the drop-down list to select the only option available, "Colony", to encompass work on all coral life stages.

7) **Sex**: This column is inactive.

8) **Expected Take**: This represents the number of colonies you expect to be working with annually. This is the maximum number of colonies you are impacting (the scope of which will be defined in the narrative; e.g., % area or number of branches). Enter the number of colonies you expect to survey, collect from, etc.

   For work in the wild, the expected take is the maximum number of colonies you estimate interacting with (i.e. "taking") annually. For example, during a collection dive, you collect gametes from 12 colonies; the expected take would be 12. The scope of the sampling, such as percent area or number of fragments, should be defined in the narrative. If you do not intend to take the same colonies during multiple trips in a year, each colony should be counted as a separate expected take. If you intend to take the same colonies during multiple trips each year, please refer to the "Takes per Animal" section below.

   If your animals are from a captive source, enter one expected take for each colony from which you have samples. Because our unit of measure is the colony, you should not count multiple samples originating from the same colony on the same day as separate expected takes. See the Section **"Sample Scenarios and Take Tables for Corals"** of this Guidance document for examples on how to enter the information.

9) **Indirect Mortality**: This column is inactive for coral applications.

10) **Takes Per Animal**: Indicate the maximum number of times an individual colony will be subject to the take actions annually. For corals, this is the frequency of interactions (e.g., survey, collection) with each colony; not the number of samples or parts collected (this will be defined in the narrative). Note that multiple samples taken from one colony (e.g. gametes, or polyps for genetic testing) during one visit are considered a single "take." However, if you visit the same colony during multiple trips into the field, each visit to that colony is counted as a separate take per animal. For example, you plan to sample the same colonies during five trips into the field in one year; the takes per animal would be five.

    Note that if you do not intend to take the same colony more than once in a year as part of your study design/objectives, you can set this value to 1. For captive animals, if you intend to conduct your procedures a certain number of times each year as part of your study design/objectives, enter that number here; otherwise the default value should be set as 1. For example, if you plan to conduct a lab experiment once a month on a colony, the Takes per Animal number may be set to 12.

11) **Take Action**: Use the drop-down list to select the only option available: Coral.

12) **Observe/Collect Method**: Use the drop-down list to select the method of observation or collection. The options available are:

- Captive
- Collect
- Contact
- Import/Receive
- Response

See *Appendix VII for corals* regarding definitions. Think of this column as "where you obtained the coral." Select only one observe/collect method per row. If you will be obtaining coral from various sources, you must provide take information in separate rows for each observe/capture method.

Note: You can use the **Copy Selected Records** button to duplicate takes within this location (see above for directions).

13) **Procedures**: Indicate which research or enhancement activities will be conducted. This column refers to "what you will do with the coral." A separate pop-up window will appear with a taxa-specific list of activities. Hold down the Control key to select all activities to be performed concurrently. Choose "Other" if your proposed activity is not listed. Then, in the "Details" box of your take table row (see below), briefly describe what the "Other" means. Please refer to Appendices VII and VIII for further information.

Note: The procedures list includes both intrusive activities such as "insert ingestible telemeter pill" and non-intrusive activities such as "observations, behavioral," "photo-id," and "acoustics, passive recording."

> *Refer to **Appendix VII for corals: Take Table Drop-Down Menus** for a complete listing of "Take Actions," "Observe/Collect Methods," and "Procedures" for corals.*

14) **Run**: This field is not applicable to corals and will show an "N/A."

15) **Transport:** If you will be transporting **live** corals during your research or enhancement activities and chose "Transport/transfer, live" as a Procedure, click on this button to enter or edit information about the transport.

In the "Transport Information" window, you have the option to select a transport location from information you previously entered. If you have not previously entered a transport location or you need to enter a new transport record, click on the "click here" link to go to the "Transport Information" window. All of the fields on this page are required.

a) ***Mode(s) of transportation**: Describe the mode of transportation. Include a description of the vehicle or other platform used to transport animals.

b) ***The name of the transportation company, if applicable, and the qualifications of the common carrier to transport live animals**: If a contractor or other entity will do the transportation, enter information in the box. Otherwise, click on N/A.

c) ***Maximum length of time from capture to arrival at destination**: How long will the animal(s) be in transport?

d) ***Description of the container (e.g., cage, tank) used to hold the animal during transit**: Include the material of the container and its dimensions.

e) ***Any special care procedures (e.g., moisture, medicines, aeration) to be administered during transport**: How will the animals be cared for during transport?

f) ***A statement as to whether the animals will be accompanied by a** veterinarian or some similarly **qualified person**: If so, give the name, affiliation, contact information for each person.

g) ***Destination**: Use the drop down list to select the species destination. If your destination is not on the list, click on the "New Facility" button to add it. If the animals will be taken to a laboratory or aquarium, provide details of the location. If the animals will be released in another waterbody, provide details of the location.

h) ***How will the animals be contained at the destination facility?**: Describe the containment system for the animals, quarantine procedures, and effluent treatment.

i) ***The final disposition of the animals**: Describe, for example, whether the animal will be released, sacrificed, or deposited in a museum collection (e.g., Maintained indefinitely; "Sacrifice for analysis.").

j) When you have completed all nine fields, click the **Save** button to save the information and go back to the "Transport Information" box. When you have entered all the transport information for your application, save and return to the "Take Information" page.

16) **Begin Date**: This field is automatically populated with the **“Begin Date”** you entered on the **“Project Information”** page. The take table represents **annual takes** within the overall project duration. You may change the date to coincide with a specific project time shorter than the overall duration of the project. You cannot enter a date that is earlier than the **“Begin Date”** you entered on the **“Project Information”** page.

17) **End Date**: This field is automatically populated with the **“End Date”** you entered on the “Project Information” page. The take table represents **annual takes** within the overall project duration. You may change the date to coincide with a specific project time shorter than the overall duration of the project. You cannot enter a date that is later than the **“End Date”** you entered on the **“Project Information”** page.

18) **Details**: You may enter up to 255 characters in this text box to provide details on a specific row. This column is optional and may be useful to briefly clarify specific activities or to distinguish between similar take rows. For example, “Captive experiments” can be clarified in the details to be “genetic studies” or “Other Restoration” can be expanded to “corallivore removal.”

When finished entering and saving take information, either click on **“Next >”** to take you back to the location page for any final location editing or adding new location and take information; OR, go to the breadcrumbs on top of the page and click on **“NEPA.”**

National Environmental Policy Act (NEPA) Considerations Page

You are required to respond to all five environmental impact consideration criteria on this page. Please answer each question completely. **"Yes"** or **"no"** or **"not applicable" are not sufficient answers** and your application will be considered incomplete. When you are finished, click the **"Next >"** link.

1) If your activities will involve equipment (e.g., scientific instruments) or techniques that are new, untested, or otherwise have unknown or uncertain impacts on the biological or physical environment, please discuss the degree to which they are likely to be adopted by others for similar activities or applied more broadly.

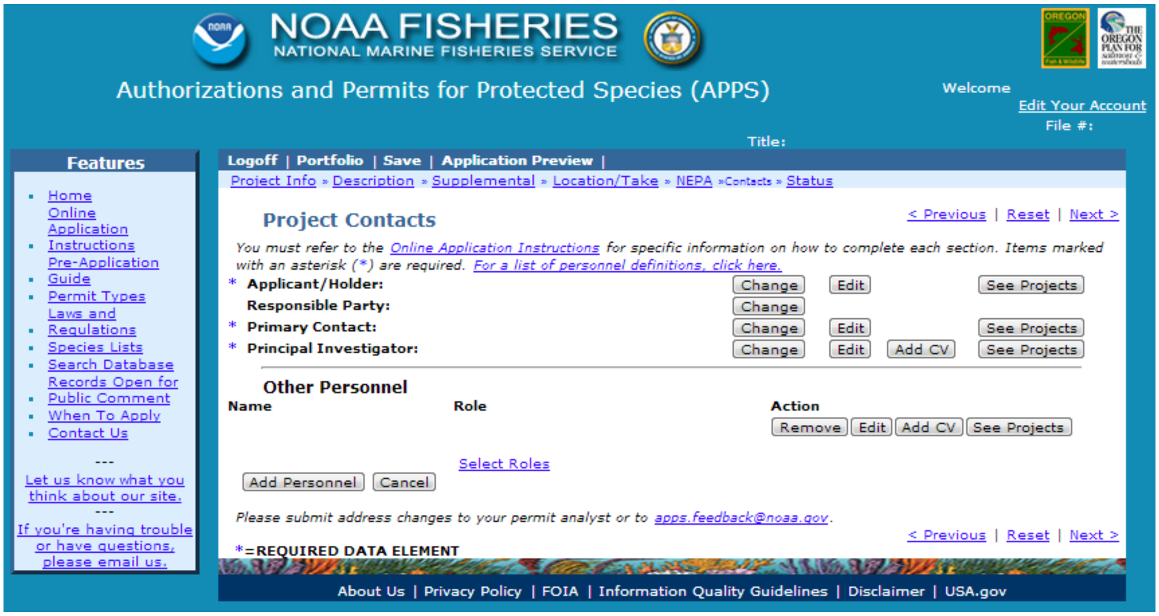
2) If your activities involve collecting, handling, or transporting potentially infectious agents or pathogens (e.g., biological specimens such as live animals or blood), or using or transporting hazardous substances (e.g., toxic chemicals), provide a description of the protocols you will use to ensure public health and human safety are not adversely affected, such as by spread of zoonotic diseases or contamination of food or water supplies.

3) Describe the physical characteristics of your project location, including whether you will be working in or near unique geographic areas such as state or National Marine Sanctuaries, Marine Protected Areas, Parks or Wilderness Areas, Wildlife Refuges, Wild and Scenic Rivers, designated Critical Habitat for endangered or threatened species, Essential Fish Habitat, etc. Discuss how your activities could impact the physical environment, such as by direct alteration of substrate during use of bottom trawls, setting nets, anchoring vessels or buoys, erecting blinds or other structures, or ingress and egress of researchers, and measures you will take to minimize these impacts.

4) Briefly describe important scientific, cultural, or historic resources (e.g., archeological resources, animals used for subsistence, sites listed in or eligible for listing in the National Register of Historic Places) in your project area and discuss measures you will take to ensure your work does not cause loss or destruction of such resources. If your activity will target animals in Alaska or Washington, discuss measures you will take to ensure your project does not adversely affect the availability (e.g., distribution, abundance) or suitability (e.g., food safety) of these animals for subsistence uses.

5) Discuss whether your project involves activities known or suspected of introducing or spreading invasive species, intentionally or not, (e.g., transporting animals or tissues, discharging ballast water, use of equipment at multiple sites). Describe measures you would take to prevent the possible introduction or spread of non-indigenous or invasive species, including plants, animals, microbes, or other biological agents.

Project Contacts Page



On this page you will enter information about the people who will be responsible for overseeing the project and others who will be working under the permit. As the person entering the application, you will automatically be assigned the following roles: **Applicant/Permit Holder, Primary Contact,** and **Principal Investigator**. See the directions below for how to change who is assigned to these roles. The following table and Appendix II explain the differences between the personnel roles. The Applicant, Principal Investigator, and Primary Contact can be the same person.

Permit Personnel	Able to make changes to application	Must be named in the permit application	CV, resume, or list of qualifications required	Receive automatic emails from APPS	Can request modifications and submit annual reports
Applicant/ Holder	Yes	Yes	Yes	Yes	Yes
Responsible Party	Yes	Yes (only if Holder is an entity)	No (If they are participating in the research they should also be listed as a Co-investigator)	Yes	Yes
Primary Contact	Yes	Yes	No	Yes	Yes
Principal Investigator	Yes	Yes	Yes	Yes	Yes
Co-Investigator	No	Yes	Yes	No	No
Other personnel (e.g., Research Assistants)	No	No	No	No	No

To change the person assigned to the Applicant/Permit Holder, Principal Investigator, Responsible Party, and Primary Contact roles, click the **Change** button next to the name. This action will open the "Contact Search" window.

To prevent duplicate entries, **you MUST ALWAYS search the database for the person before entering a new contact.**

To search:

1) Enter the person's **last name**.
2) Click **Search for Contact**.
3) If the person is listed in the search results, click the **Select** button to add them to your application.
4) If too many entries are returned, you may enter additional information about the person, and click **Search for Contact** again.
5) If the search did not find the person you want to add, click **Create New Contact**.
6) You will be prompted to enter the person's contact information. Enter all required information and save when you are finished.

Note: If you remove yourself as a contact you will no longer have access to the application.

A project must have a **Responsible Party** when the Applicant/Permit Holder is an organization, institution, or agency. The Responsible Party is an official who has the legal authority to bind the organization, institution, or agency and is ultimately responsible for all activities of any individual operating under the authority of the permit.

Note: The Responsible Party is most often used when there is a likelihood of staff changes. For example, permits cannot be transferred from one individual to another. If the Permit Holder changes, NMFS has to issue a new permit. However, the Responsible Party role can be transferred to another individual. Long-term research projects held by public agencies tend to encounter staff changes and in many cases, NMFS has assigned the Permit Holder role to the agency. It is up to the applicant to decide if this is appropriate for their project. To add a Responsible Party, follow the steps above.

In addition to the roles described above, you must add **Co-investigators** to the application if the Principal Investigator will not always be present during the permitted activities. Co-investigators are individuals who are qualified and authorized to conduct or directly supervise activities conducted under a permit issued for scientific research or enhancement purposes without the on-site supervision of the Principal Investigator.

How to add a Co-investigator

1) Click on the **Add Personnel** button.
2) The Contact Search box will open
3) Follow the instructions above for searching and adding a new contact.
4) Once you select a person, click on the **Save Personnel** button before adding another Co-investigator.
5) Repeat this process until you have added all Co-investigators.

Qualifications and Experience

You are required to submit the following information about the qualifications and experience of the Principal Investigator and all Co-investigators.

> **Note**: All documentation submitted will be publicly available. **DO NOT include personal information**[3] in your documentation.

Contact Information

- Full Name (as it appears on driver's license, passport, etc.)
- Email address
- Business mailing address, phone, and fax

Education & Training

- Degree, year, major, name of institution
- Certificates or Licenses, relevant dates (year received, expiration date)
- Other training or certification relevant to the permitted activity, date (e.g., dive certification, animal handling course)

Experience[4]

- Current position title, name of employer
- Relationship to Applicant/Principal Investigator
- List of duties to be performed under the permit
- Brief description of when and how you obtained expertise in the proposed methods you will be conducting and supervising, whether you have performed them without supervision and when you supervised others performance

Annotated Publication History[5]

- Authors, Date, Title, Journal (or book, etc.), applicable permit number

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[3] **DO NOT** include social security number, date of birth, nationality, marital status, home phone or address (unless it is also the business address), salaries, or other personal information.

[4] Address how you are qualified to perform the proposed activities and to supervise the performance of others acting under the permit (e.g., research assistants, vessel operators).

[5] This does not need to be exhaustive. The intent is to show that the individual has or is reasonably likely to publish in peer reviewed journals or otherwise make results of permitted research available.

How to attach qualification documentation, such as a resume

1) Click the **Add CV** button next to the person's name.
2) A pop-up window will appear that allows you to attach a file.

    Note: If the person's CV is already in APPS, you will see a file name under "Selected File;" however, **we ask that you still attach your version** because it may be more recent than the one we have on file.

3) Click **Browse** and locate the file.
4) Click **Attach** and wait for the file to upload.
5) When finished, click the **Cancel** button to close the pop-up window.

Resumes and CVs are considered **part of an application's public record** and are available to reviewers and the public. Refer to the Additional Information at the end of this chapter. Please **do not** include personal information such as:

- Home address/phone number
- Date of birth
- Social security number
- Nationality
- Marital status
- Salary

As the Applicant, it is your responsibility to notify your Co-investigators that their names and resumes may be available to the public.

You may also add personnel who perform other roles (Research Assistants, Veterinarians, Tissue Sample Disposition) to the application.

How to add other personnel

1) Click on the **Add Personnel** button.
2) The Contact Search box will open.
3) Follow the instructions above for searching and adding a new contact.
4) Once a person is added, APPS defaults the "role" to Co-investigator.
5) To change the role, click on "Co-Investigator."
6) Another window will open with a list of roles. Choose the role you want.
7) Click Save.
8) Once the role has been assigned, click on the **Save Personnel** button before adding other personnel.

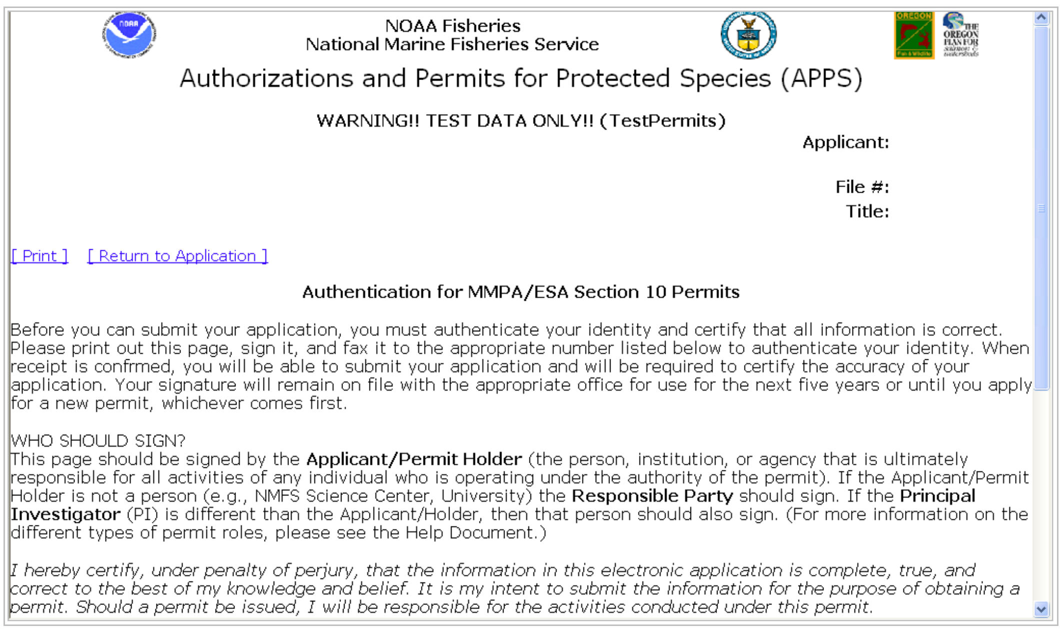
When you are finished, click the **"Next >"** link to go to the Submit Application page.

Submit Application Page

Before you can submit your application, you must authenticate your identity and certify that all information in the application is correct. After you click the **Click Here to Submit Application** button, an authentication screen will appear.

Authentication and Certification

1) Print the following Authentication screen and have the Applicant/Permit Holder or Responsible Party sign and date the page (for personnel definitions refer to Appendix II). If the Principal Investigator (PI) differs from the Applicant/Permit Holder or Responsible Party then the PI must also sign and date the page. Signatures will remain on file in the Permits Division for five years or until you apply for a new permit, whichever comes first.


NOAA Fisheries
National Marine Fisheries Service
Authorizations and Permits for Protected Species (APPS)

WARNING!! TEST DATA ONLY!! (TestPermits)

Applicant:

File #:
Title:

[Print]   [Return to Application]

Authentication for MMPA/ESA Section 10 Permits

Before you can submit your application, you must authenticate your identity and certify that all information is correct. Please print out this page, sign it, and fax it to the appropriate number listed below to authenticate your identity. When receipt is confrmed, you will be able to submit your application and will be required to certify the accuracy of your application. Your signature will remain on file with the appropriate office for use for the next five years or until you apply for a new permit, whichever comes first.

WHO SHOULD SIGN?
This page should be signed by the **Applicant/Permit Holder** (the person, institution, or agency that is ultimately responsible for all activities of any individual who is operating under the authority of the permit). If the Applicant/Permit Holder is not a person (e.g., NMFS Science Center, University) the **Responsible Party** should sign. If the **Principal Investigator** (PI) is different than the Applicant/Holder, then that person should also sign. (For more information on the different types of permit roles, please see the Help Document.)

I hereby certify, under penalty of perjury, that the information in this electronic application is complete, true, and correct to the best of my knowledge and belief. It is my intent to submit the information for the purpose of obtaining a permit. Should a permit be issued, I will be responsible for the activities conducted under this permit.

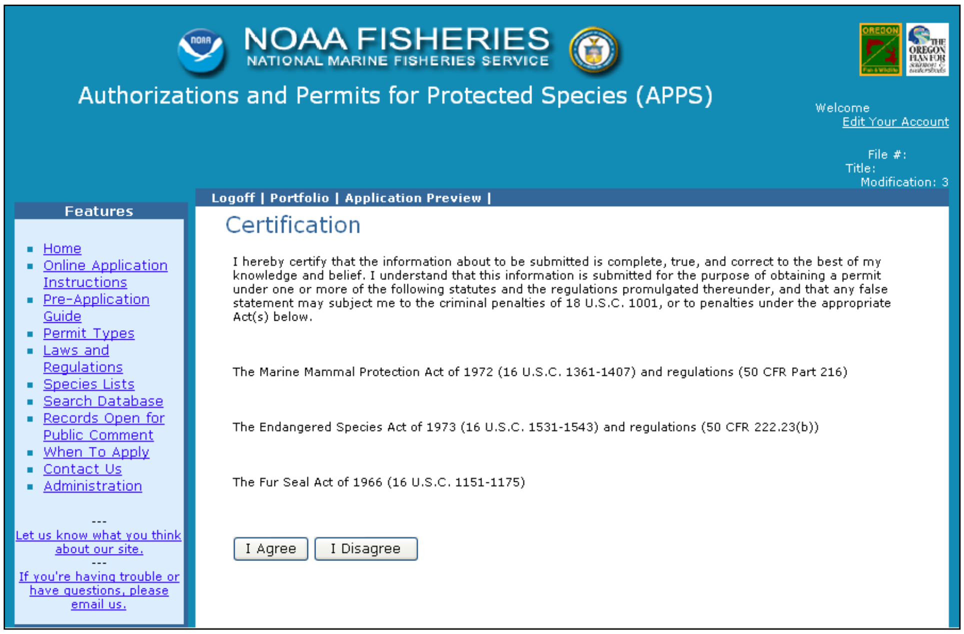
To print on one page make sure your text size is set to "smaller." In Internet Explorer go to "View" then "Text Size" and choose "smaller."

2) After you have signed and dated the page, please fax it to the Permits Division at 301-713-0376.

3) Once you have faxed your authentication page, save your application and log off APPS.

4) A permit analyst will email you to confirm receipt of the signature page within 1-2 business days.

5) After you are notified that your signature was received by the appropriate office, you may log into APPS and submit your application by clicking on the **Click Here to Submit Application** button. The following certification screen will appear:

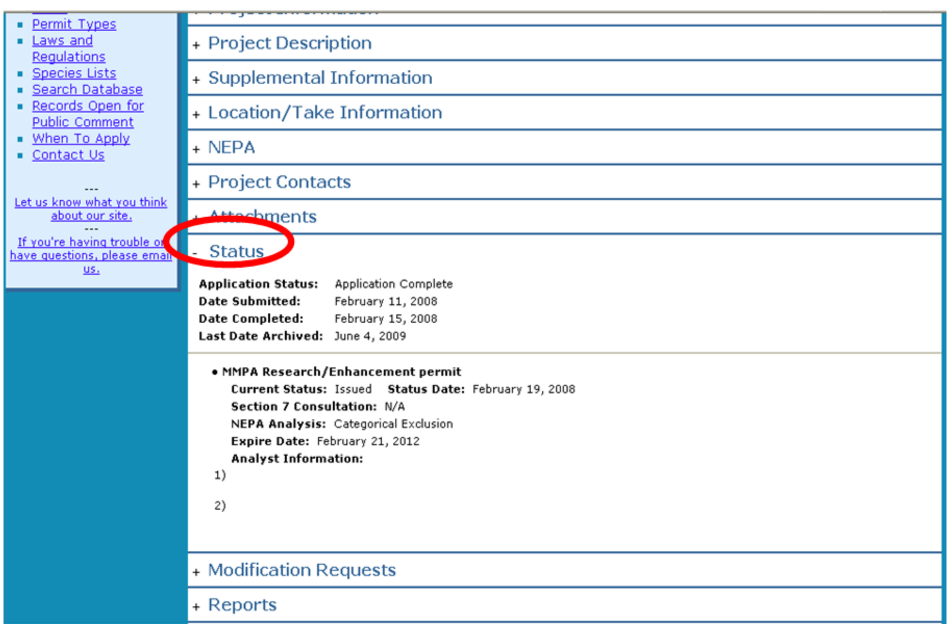


6) You must read and accept the certification statement before your application can be submitted. If you choose not to accept the statement, your application will not be submitted and your request cannot be processed.

7) Once submitted, you will receive an automatic email saying that you have successfully submitted your application.

Application Status

Once an application has been submitted, the **"Project Status"** page will track the progress of the application. This screen will display which analysts have been assigned your application and where your application is in the review process. From the **"Project Overview"** page, which appears once an application is submitted, click on the **"Application Preview"** link. From this page you can access the **"Status"** information. Click on the **"+"** next to **"Status"** to see details on its status.



Requesting a Modification

This section of APPS allows the Applicant, Principal Investigator, and Primary Contact to request changes to the issued permit.

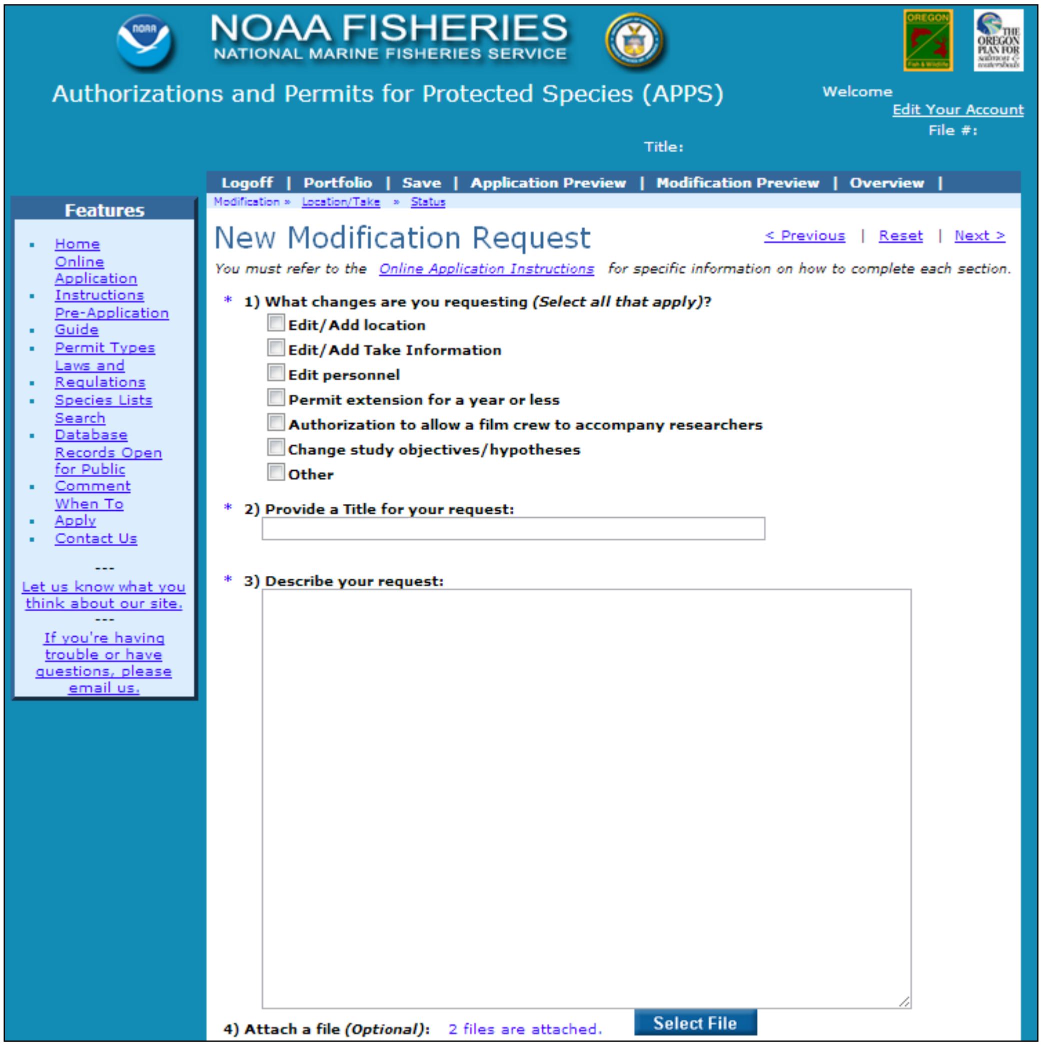
> **Note**: The Director, Office of Protected Resources, may amend or modify scientific research and enhancement permits in response to or independent of a request from the Permit Holder. Amendments and modifications are subject to additional analyses under NEPA and the ESA.

Requests to modify the following permit specific conditions may require a new 30-day public review and comment period:

- changing the species to be taken or imported/exported;
- increasing the number of animals to be taken or imported/exported;
- changing or adding locations;
- changing methods; and
- extending the expiration date.

Other requests such as changing personnel or allowing a film crew to accompany the researchers may be authorized without public review.

To begin, log in to your portfolio and open the issued permit that you would like to modify by clicking on the “File number” link. At the top of the page, you will see a series of links including **“Request a Modification.”** Click on this link to open the **“New Modification Request”** page (see below).



Modification Request Questions

1) ***What changes are you requesting?*** (Select all that apply)

On the "New Modification Request" page, you must check the type(s) of modification(s) you are requesting. See "Modification Types" below for a description of each of these options. You have the following list of options:

- Edit/Add Location
- Edit/Add Take Information
- Edit Personnel
- Permit Extension for a year or less
- Authorization to allow a film crew to accompany researchers
- Change Study Objectives/Hypotheses
- Other

Your selections will dictate which fields are available for you to edit on the screens that follow. For example, if you select **"Edit/Add Take Information"** you will only be able to modify the take table. If you decide that you need to change other sections of the permit, you will have to return to this screen and check those options.

2) ***Provide a Title for your request*** (up to 255 characters)

Describe the modification as concisely and descriptively as possible. Be sure to enter a modification title before logging out of APPS.

3) ***Describe your request*** (no text limit)

A request to modify an issued permit should address the pertinent sections of these instructions **relevant to the requested change**. Your request should include the following information, as applicable. See corresponding sections of application above for information required under each category below. Disregard those that do not apply to your modification request.

- Brief narrative summary of the changes requested
- Research timeframe and sampling season/project duration
- Purpose: hypothesis/objectives and justification (also include a report of takes used annually to date when requesting a take increase)
- Project description (include specifications for changes in methods or gear, such as tags)
- Captive information
- Status of the affected species (if requesting a change in species)
- Lethal take (intentional or unintentional)
- Anticipated effects on animals
- Measures to minimize negative effects
- Resources needed to accomplish objectives
- NEPA information, especially for changes in methods or locations
- References
- For personnel changes, include qualifications/experience in each take activity

Notes: If requesting a change in authorized take, please make sure to select **"Edit/Add Take Information"** and edit your take table within APPS. Do **not** provide a separate take table when attaching a file.

For changes in field equipment or study areas, we highly recommend that you attach figures, maps or illustrations drawn to scale.

4) ***Attach a file (Optional):***

If you need to attach figures, maps, or other supporting documents please attach a file. To open the attachments window, click on the **"Select File"** button. Within the attachments window, you will click on the **"Browse"** button, and then navigate to the directory containing the file you wish to attach. After locating the file, click the **"Attach"** button. You can attach more than one document from this window. When you have finished attaching files, click the **"Cancel"** button to return to the modification request form. If you are making substantial or complex changes to your permit, your attachment should contain enough detail for reviewers to understand your request.

Click **"Next >"** to proceed.

Modification Types

Edit/Add Location

If you selected this option, you will see the **"Modification Locations and Take Information"** screen. Currently defined locations are displayed in the lower half of the screen. For instructions on adding locations and take information, see the **"Project Locations and Take Information"** section above. There is no limit to how many locations you can add.

To increase your action area by adding states to your action area, click on the **"Change area or state"** button.

To add a new location, click on the **"Add new location"** button.

To edit or delete an existing location, select the location and click on the **"Edit/Delete location"** button.

When you have completed changes to the location information, and if you have no other edits, you can submit your modification request. Click the **"Next >"** link at the top right of the screen. You should now see the **"Submit Modification Request"** screen. You are encouraged to preview your modification before submitting.

Edit/Add Take Information

This option allows applicants to request a modification to the take table. Some of the typical types of modification requests include the addition of new methods, an increase in the number of animals taken, and the addition of new species. You may edit any part of the take table. See the **"Take Table"** section above for instructions on required information in the table.

When requesting an increase in the number of animals to be taken, make sure that you request the total number of animals to be taken (i.e., the number of takes you are currently authorized **plus** your proposed increase). Please note that requests for increases in take of species/stocks currently authorized by the permit must demonstrate valid justification, including a **reporting of how many authorized takes you have used**. Requests that do not provide this information may be considered incomplete. Provide justification in the "Describe your request" text box or by attaching a supporting document.

To request to remove/delete existing take records, first check the **"Select"** box to the left of the record you wish to delete, then click the "Delete selected records" button near the top of the page. A pop-up notice box will appear that indicates that the record will still appear in the table but is marked for deletion.

To request to modify existing take records, first check the **"Select"** box to the left of the record you wish to modify, then click the **"Edit selected records"** button near the top of the page. The take table should refresh with an editable copy of the original record with the next consecutive version number. For example, if you selected line number 2 to edit, the copied record should be line number 2, version A. Then, make the changes you would like to the record.

When you have finished entering the edits, additions, and deletions you want to request, click the **"Save"** button and then the **"Next >"** link. You will be taken to the **"Location"** page where you can then proceed to another location for which modifications are needed or submit your application.

Edit Personnel

Refer to the **"Project Contacts"** section above for instructions on editing personnel information. The process for searching and adding contacts for modifications is the same. When using the search function, be sure to exhaust your search (i.e., start out with a generic search before getting too specific so that duplicate contacts are not created). To request removal of a contact, check the box labeled **"remove"** to the right of the contact's role.

> **Note:** To add personnel you must attach a CV or resume for each person. See instructions in application above on what information is required.

Resumes and CVs are considered **part of an application's public record** and are available to reviewers and the public. Refer to the Additional Information at the end of this chapter. Please **do not** include personal information such as:

- Home address/phone number
- Date of birth
- Social security number
- Nationality
- Marital status
- Salary

As the Applicant, it is your responsibility to notify your Co-investigators that their names and resumes will be available to the public. When you submit your modification, **all Co-investigators will receive an automatic email** saying that they have been named on your application.

Permit Extension for a year or less

If you wish to apply for a permit extension, check this box and include your proposed extended expiration date and justification in the description of your request.

Authorization to allow a film crew to accompany researchers

If you wish to apply for an authorization to allow a film crew to accompany you during research, check this box and provide information on who will accompany you (i.e., production company, names and roles of the crew), where and when filming would occur, and the purpose of the filming (e.g., documentary on humpback whales).

Change Study Objectives/Hypotheses

If you wish to modify the study objectives/hypotheses, check this box and include the new objectives/hypotheses the description of your request.

Other

If you check this box, please explain the modification in the description of your request.

Submitting Your Modification Request

After moving through all of the applicable windows, you may submit your request using the **"Next >"** links or click the **"Submit"** link near the top of the page. A window should appear that suggests you review your request before submitting. **IMPORTANT**: You must click the **Click Here to Submit Modification** button on this page to submit your application. Once submitted, you will receive an automatic email saying that you have successfully submitted your application. A permit analyst will contact you regarding your submitted application.

Call the Permits Division at 310-427-8401 if you need assistance.

Appendixes VII and VIII for corals

Appendix VII for corals: Take Table Drop-Down Menus

The following information is a complete listing of the options for the Observe/Collect Method and Procedures columns for corals with a description of each option.

Observe/Collect Method (i.e., how will you obtain or access the coral?)

- **Contact** - Includes touching the coral but not removing it.
- **Collect**- Includes removing coral or parts of it.
- **Captive** - The coral is already in a controlled setting (laboratory or nursery).
- **Import/Receive** - Obtaining coral from someone else.
- **Response** - Activities associated with emergencies such as vessel groundings.

Procedures (i.e., what will you do with the coral?)

- **Captive, experiments -** Experiments and analyses conducted on corals in a controlled setting (lab or nurseries).
- **Captive, maintain -** Maintaining coral in a controlled setting including natural propagation (i.e. breeding that is not induced).
- **Collect, dead parts** - Collection of dead coral.
- **Collect, gametes/larvae** - Collection of gametes and larvae in the wild.
- **Collect, live parts** - Collection of samples from live coral colonies/individuals (e,g., fragments, cores, mucous, collection plates)
- **Count/Survey** - Field observations/monitoring of coral that involve contact with the coral.
- **Field Planting -** Outplanting/transplanting of colonies or emergency translocation for restoration or response.
- **Field Studies -** Research on coral in the wild including introduction of chemicals, nutrients, treatments for disease (i.e., barriers) when no collection is involved.
- **Mark or Tag** - Affixing a mark or tag on the coral for identification in the field.
- **Other -** Activities not covered by the above options (contact your permit analyst for guidance)
- **Other Restoration -** Includes substrate stabilization, corallivore and sediment removal, other emergency response.
- **Transport/Transfer, dead -** Transfer or export of dead parts or corals to another authorized person/entity.
- **Transport/Transfer, live -** Transfer or export of living samples or corals to another authorized person/entity including transport of living corals into a controlled setting.

Appendix VIII for corals: Methods, Effects and Mitigation Details

Descriptions of research activities should contain sufficient details about protocols, effects, and mitigation to allow reviewers to evaluate environmental impacts of the project. The following are examples of minimum information that should be provided for the application to be considered complete for coral species.

Details to Provide in the "Project Description" page for Coral Activities

The table below describes the type of information to include in the narrative section of an application for commonly permitted activities. Please contact us if you have questions about what information to include when describing your procedure. The "APPS menu selection" column indicates the procedure to select in the Location/Take table portion of your application. Brackets in this column indicate there are multiple menu options corresponding to a particular procedure.

Your application must have a narrative description for each activity in the table, and vice versa. You are encouraged to provide **figures or photographs to illustrate** your methods by attaching supplemental files.

Activities to be performed by applicant	Procedure - APPS menu selection	Details to include in the narrative
Experiments and analyses conducted on corals in a controlled setting (lab or nurseries).	**Captive, experiments**	– Describe the experiments – Describe facility, water supply and drainage, etc.
Captive maintenance, Maintain coral in a controlled setting	**Captive, maintain**	– Duration of captivity – Describe facility, water supply and drainage, etc.
Field observations/monitoring <u>of coral</u> that involve contact with the coral.	**Count/Survey**	– Sampling design – Type of survey (e.g., quadrats, line intercept transect) – Description of survey area – Season (time of year) – Number of surveys per year – Duration per area – Type/size of survey vessel
Collection of dead fragments or corals	**Collect, dead parts**	– How collection is going to be performed – Frequency of collection each year – Amount to be collected (volume, mass, or number of samples)

Activities to be performed by applicant	Procedure - APPS menu selection	Details to include in the narrative
Collection of gametes and larvae in the wild.	**Collect, gametes/ larvae**	– How collection is going to be performed – Frequency of collection each year – Amount to be collected (volume, mass, or number of samples)
Collection of samples from live coral colonies/individuals [e.g. fragments, cores, mucous, collection plates]	**Collect, live parts**	– How collection is going to be performed; – Frequency of collection each year – Amount to be collected (volume, mass, or number of samples)
Outplanting/transplanting of colonies or emergency translocation for restoration or response.	**Field Planting**	– Method of outplanting – Description of monitoring for outplanting success
Research on coral in the wild including introduction of chemicals, nutrients, treatments for disease (i.e., barriers) when no collection is involved.	**Field Studies**	– How the experiment is going to be performed – Chemicals, nutrients, treatments that will be used – Frequency of field trips each year
Affixing a mark or tag on the coral for identification in the field.	**Mark or Tag**	– Type of mark (e.g., plastic tags) – Location on coral – Method of application (e.g., pliers) – Attachment/mark duration – Dimensions of tag or mark
Activities not covered by the above options	**Other**	– Provide necessary details comparable to the above procedures.
Emergency response including substrate stabilization, corallivore and sediment removal	**Other Restoration**	– Type and methods of response activity
Transfer or export of dead corals or parts to another authorized person/entity.	**Transport/Transfer, dead**	– Type and approximate quantity of samples (e.g., fragment, core) – Origin of the sample/animal including country or high seas – Description of how the sample/animal was originally taken

Activities to be performed by applicant	Procedure - APPS menu selection	Details to include in the narrative
Transfer or export of living samples or corals to another authorized person/entity.	**Transport/Transfer, live**	– Type and approximate quantity of samples (e.g., fragments) – Origin of the sample/animal including country or high seas – Description of how the sample/animal was originally taken – Recipient of the samples – Type of storage/shipping container, etc.

Sample Scenarios and Take Tables for Corals

Table 1 illustrates possible Take Table options for corals. In each column you will choose one option from the drop-down list except in the case of Procedures, where you can choose multiple options.

Table 2 is an example of a Take Table with research and enhancement activities for coral. The research scenarios (“Rows”) below give a general idea of how to fill in a Take Table. Please note that these are just examples. You can contact the Permits Division if you need help completing your Take Table.

Row #1a and 1b. A researcher is conducting a one-time collection of fragments from 40 different *Acropora cervicornis* colonies. Up to three fragments will be removed from each colony. Fragments from 10 of the colonies will be maintained for propagation, fragments from 20 of the colonies will be kept for ocean acidification experiments, and fragments from the final 10 colonies will be transferred to another lab for genetic analysis.

Row #2. A researcher is going in the field 6 days per year to collect gametes from five colonies of *Acropora palmata* for genetics research. The take number isn’t derived from the amount of gametes or vials taken, only the number of colonies sampled. The number of samples taken should be discussed in the Details column and the Description, Effects and Mitigation sections of the narrative.

Row #3. A researcher is breeding 7 *Montastraea faveolata* in captivity. The purpose is to monitoring of spawning and reproduction of this species. The researcher will be collecting gametes from the spawning but will be collecting only twice a year if the colonies spawn. The number of colonies affected is 7, and the estimated number of takes per colony is 2.

Row #4. A researcher is going in the field 4 times a year to collect core samples from *Montastraea faveolata* colonies and conduct population estimates for this species. Each season he plans to collect samples from 6 colonies, but not from the same 6 colonies. Thus the annual expected take number is 24. However the takes per animal is 1 because each colony will only be impacted once over the course of a year.

Row #5. If the same researcher from Row 4 will not only collect the 24 core samples, but will also collect mucous samples from 10 <u>different</u> colonies over the course of the year, then you would also fill the table with the example of row 5 (in addition to row 4). Because the researcher is performing a different procedure on different colonies than in Row 4, a new take line must be used. The number of takes is 10, and the takes per animal is one.

Rows #6a and 6b. A PI has funding to respond to 4 vessel groundings in USVI eachyear. Based on previous experience, a maximum of 20 *Acropora cervicornis* and 10 *Montastraea faveolata* colonies are reattached following each event. Therefore, the expected take is 80 *Acropora cervicornis* (20 colonies; 4x per year) and 40 *Montastraea faveolata* (10 colonies; 4x per year). Note that each species needs a separate row (thus 6a and 6b).

Row #7. A Florida researcher receives 12 samples of live eastern Pacific *Pocillopora elegans* from a researcher in Panama to conduct genetic studies. Note that although this species is not found in U.S. waters, once it is imported into the U.S., the need for a permit applies.

Row #8. A research team plans to conduct coral demographic monitoring in Puerto Rico. From past experience, researchers contact a maximum of 5 *Acropora palmata* colonies while conducting 20 transects. If they plan to monitor corals on 100 stratified random transects, that equates to an estimated 25 takes.

Table 1. Take table with the possible options for coral within each column.

Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take[2]	Takes per Animal[3]	Take Action	Observe/ Collect Method[4]	Procedure[5]	Transport	Details
(Scientific Name)	- Caribbean/ Western Atlantic/Gulf of Mexico (NMFS Proposed Endangered) - Caribbean and Western Atlantic (NMFS Proposed Endangered) - Indo-Pacific (NMFS Proposed Endangered) - eastern Pacific (NMFS Proposed Endangered)	- Captive - Wild	Colony[1]	(Inactive Column)	(This is a number you need to add)	(This is a number you need to add)	Coral	- Captive - Collect - Contact - Import/ Receive - Response	- Captive, experiments - Captive, maintain - Collect, gametes/ larvae - Collect, dead parts - Collect, live parts - Count/Survey - Field Planting - Field Studies - Mark or Tag - Transport/Transfer, dead - Transport/Transfer, live - Other - Other Restoration	(Only appears when **Transport/ Transfer, live** is selected in the Procedure column.)	(Add clarification information up to 255 characters)

[1]Any autonomous, free-standing coral skeleton (with or without live tissue)
[2]Expected Take = the number of colonies you are impacting (scope will be defined in the narrative; i.e. % area or number of branches)
[3]Takes per Animal = frequency of interaction with the colonies; not number of samples or parts
[4]How will you obtain coral?
[5]What will you do with the coral? (Choose all applicable procedures)

Table 2. Take Table Scenarios.

Row #	Species	Listing Unit/Stock	Production /Origin	Life Stage[1]	Sex	Expected Take[2]	Takes per Animal[3]	Take Action	Observe/ Collect Method[4]	Procedure[5]	Transport Record	Details
1a	*Acropora cervicornis*	Caribbean and Western Atlantic	Wild	Colony	(Inactive Column)	30	1	Coral	Collect	- Collect, live parts - Captive, research - Captive, maintain		One time collection of 90 fragments. Up to 3 fragments from each of the 30 colonies will be removed via clippers. 30 fragments will be used for propagation; 60 fragments from 10 colonies will be used for captive experiments.
1b	*Acropora cervicornis*	Caribbean and Western Atlantic	Wild	Colony	(Inactive Column)	10	1	Coral	Collect	- Collect, live parts - Transport/Transfer, live - Captive, research - Captive, maintain	- Transport/ Transfer, live will activate this column	One time collection of 30 fragments. Up to 3 fragments from each of the 10 colonies will be removed via clippers and will be transferred to Lab X for genetics
2	*Acropora palmata*	Caribbean and Western Atlantic	Wild	Colony	(Inactive Column)	5	6	Coral	Collect	- Collect, gametes/larvae - Captive, experiments		Collection via sample vials from nets placed over entire colony.
3	*Montastraea faveolata*	Caribbean/ Western Atlantic/Gulf of Mexico	Captive	Colony	(Inactive Column)	7	2	Coral	Captive	- Captive, maintain		
4	*Montastraea faveolata*	Caribbean/ Western Atlantic/Gulf of Mexico	Wild	Colony	(Inactive Column)	24	1	Coral	Collect	- Collect, live parts - Count, survey		Core samples
5	*Montastraea faveolata*	Caribbean/ Western Atlantic/Gulf of Mexico	Wild	Colony	(Inactive Column)	10	1	Coral	Collect	- Collect, live parts		Collecting mucous samples
6a	*Acropora cervicornis*	Caribbean and Western Atlantic	Wild	Colony	(Inactive Column)	80	1	Coral	Response	- Field Planting		Reattaching colonies disrupted by vessel grounding

Row #	Species	Listing Unit/Stock	Production /Origin	Life Stage[1]	Sex	Expected Take[2]	Takes per Animal[3]	Take Action	Observe/ Collect Method[4]	Procedure[5]	Transport Record	Details
6b	*Montastraea faveolata*	Caribbean/ Western Atlantic/Gulf of Mexico	Wild	Colony	(Inactive Column)	40	1	Coral	Response	- Field Planting		Reattaching colonies disrupted by vessel grounding
7	*Pocillopora elegans*	eastern Pacific (NMFS Proposed Endangered)	Captive	Colony	(Inactive Column)	12	1	Coral	Import/Receive	- Captive, experiments - Transport/Transfer, live	- Transport/ Transfer, live will activate this column	Genetic testing
8	*Acropora palmata*	Caribbean and Western Atlantic	Wild	Colony	(Inactive Column)	25	1	Coral	Contact	- Count, survey		Stratified random line transects