Ivan Fannin

Project Manager

Miami Permits Section

USACE, Jacksonville District

August 7, 2014









US Army Corps of Engineers
BUILDING STRONG®



Topics

- Introduction
- Endangered Species Act
- Types of consultations
- Effect determinations
- Application information
- Determination tools
- Regional issues







USACE Permit Actions







USACE Permit Actions

- Authorities: Section 404 of the CWA and Section 10 of the RHA
- Compliance with applicable federal laws:
 - Magnuson-Stevens Act (Essential Fish Habitat - EFH)
 - National Historic Preservation Act (NHPA)
 - Coastal Zone Management Act
 - Section 401 of the Clean Water Act



Endangered Species Act (ESA)





- Promulgated by Congress on 1973
- Intended to conserve threatened and endangered species and the ecosystems on which they depend
- Provides broad powers for Secretaries of Interior and Commerce to protect species in jeopardy





Services



Terrestrial and freshwater Species, Manatee and Sea Turtles (in land)



Marine species and most anadromous fish, Sea Turtles (in the water)





- Endangered species any species which is in danger of extinction throughout all or a significant portion of its range. [ESA §3(6)]
- Threatened species any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range. [ESA §3(20)]
- Listed species any species of fish, wildlife or plant which has been determined to be endangered or threatened under the ESA. [50 CFR §402.02]
- Critical Habitat specific areas within geographic range of species which support physical and biological features essential to the conservation of the species, which may require special management. [ESA §3(5)(A)]

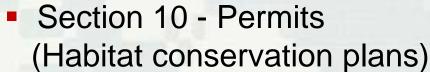
 Section 4 - Listing and Recovery (Designated critical habitat)

Section 7 - Interagency Cooperation

(50 CFR Part 402)

Section 9 - Prohibited Acts
 (Take prohibited - broad definition)









- Section 7 of the ESA
 - Requires that all federal agencies ensure that any action they authorize, fund or carry out is not likely to jeopardize the continued existence of any listed species or result in the destruction or adverse modification of critical habitat
 - Requires agencies to consult on "may affect" actions









- Listed species worldwide 2163
- Listed species in Puerto Rico 73
 - o 22 animal species
 - 49 plant species
 - 2 coral species
- Designated critical habitats in PR
 - 12 for listed animal species
 - 2 for listed coral species
- 9 additional species proposed for listing in PR



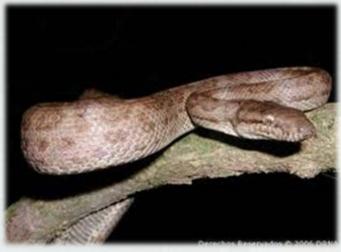




Types of Consultations

- Early
- Emergency
- Conference
- Informal
- Formal

USACE makes Effect
Determination and initiates
consultation with the Service









Effect Determinations

No effect

- No listed species or designated critical habitat present within action area
- Project has no elements that could possibly affect listed species or designated critical habitat
- Difficult to achieve, specially with in-water work
- No consultation required
- Services would not provide concurrence







Effect Determinations

May affect

- Not likely to adversely affect (NLAA or MANLAA)
 - Effects on listed species are expected to be beneficial, insignificant (cannot be measured, detected or evaluated) or discountable (very unlikely)
 - Informal consultation
- Likely to adversely affect (LAA)
 - A direct or indirect effect of the action adversely effects listed species or DCH
 - If incidental take is anticipated to occur, the action is adverse



Formal consultation



Informal Consultation

- Informal process
- The Service may recommend project modifications to eliminate the LAA determination
- Ends with
 - Written concurrence from Service that the action is NLAA listed species or critical habitat, or
 - Initiation of formal consultation







Formal Consultation

- A written request to initiate formal consultation shall:
 - Describe proposed action
 - Describe affected area
 - List affected species or critical habitat
 - Describe the effect on listed species or critical habitat and analyze cumulative effects
 - Include relevant reports, environmental impact statement, environmental assessment or biological assessment
 - Include other relevant available information on the action, the affected listed species or critical habitat



(50 CFR 402.14)



Biological Opinion

- The Service prepares a Biological Opinion that identifies:
 - Whether an action is or is not likely to jeopardize the continued existence of a listed species or adversely modify designated critical habitat
 - Any incidental take of listed species or adverse modification of critical habitat
 - Any reasonable and prudent alternatives to avoid jeopardy or adverse modification
 - Incorporated as Permit Conditions





Making Effects Determinations

- Be proactive...You can influence the consultation...
 - Consider the federal process early in your project design and planning
 - Species surveys, habitat and benthic assessments may be needed
 - Evaluate alternatives and potential modifications
 - Consider direct, indirect and cumulative effects
 - Avoid, minimize, compensate
 - Permit application is very important
- Ultimately USACE makes the determination and initiates consultation

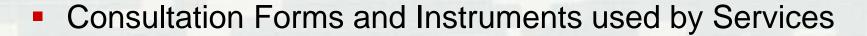


Application Information

- Reference, incorporate and submit consultation information early with the permit application
- Complete Application ≠ Complete Consultation Package
- Nationwide Permits General Condition 18
 - PCN must include:
 - Name(s) of listed species that might be affected
 - Documentation demonstrating compliance with ESA
 - No work shall start until Section 7 is satisfied
- Be knowledgeable of the process
- Take advantage of existing tools and resources



- USACE Pre-application Consultations
- Technical Assistance by Services
- ESA Consultation Handbook
- Section 7 Regs (50 CFR Part 402)
- Websites and Internet Tools



- Standard Conservation Measures
- Biological Assessments and/or Evaluations

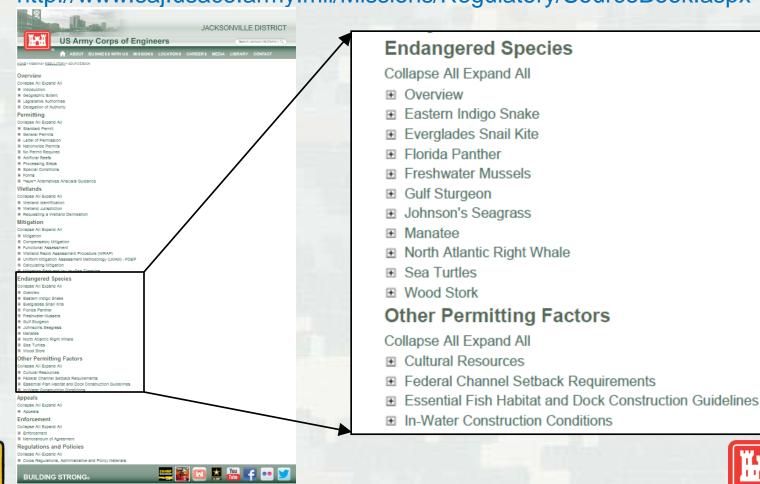






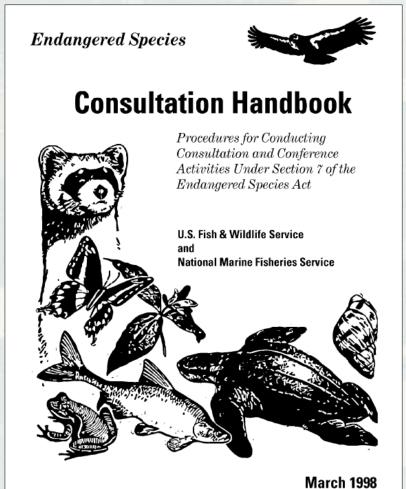
Jacksonville District Regulatory Website & Source Book

http://www.saj.usace.army.mil/Missions/Regulatory/SourceBook.aspx





Endangered Species Consultation Handbook



Final





FWS Website and Endangered Species Internet Tools

http://www.fws.gov/caribbean/es/Endangered-Main.html



US Fish and Wildlife Service

Ecological Services in the Caribbean

Caribbean Ecological Services Field Office

Internet Tools:

Addresses: http://www.fws.gov/caribbean/es http://ecos.fws.gov

What you can find?

Endangered Plants for PR and VI Endangered Animals for PR and VI Critical Habitat Designations Species Recovery Plans Endangered Species Map NWI Maps IPaC

Links to Other Resources

What info you may see?

Endangered & Threatened Plants or Animals

- Species Profile
- Recovery Plans
 Photos
- Fact Sheets

Critical Habitat Designations

- Federal Register Publication Date
- · Description of Designation
- Maps

Species Recovery Plans

 Document with information about the species

National Wetland Inventory Map

- Wetland Mapper Viewer
- Download Wetland Digital Data
- View Wetlands Data with Google Earth

Caribbean Endangered Species Map

- Municipalities Found
- · Common Names (English & Spanish)
- Taxonomic Group
- Status of Specie
- General Distribution
- General Comments



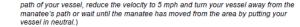


PO Box 491 * Boquerón, PR 00622 * Phone: 787-851-7297 * Fax: 787-851-7440





FWS Recommended Manatee Conservation Measures



- 3. Luego de asegurarse de que el manatí esté fuera de la trayectoria de su embarcación, continúe navegando despacio (no más de 5 mph) hasta que su embarcación se encuentre a no menos de 50 pies (15 metros) del manatí. (After you are certain that the manatee is well outside of the path of your vessel, resume navigation slowly (not more than 5 mph) until your vessel is not less than 50 feet (15 meters) away from the manatee.)
- 4. Obedezca las zonas con limites de velocidad y reduzca la velocidad en aguas llanas menores a 10 pies de profundidad en particular cerca de la costa, en las desembocaduras de ríos, en praderas de hierbas marinas y manglares. (Obey regulatory speed zones and reduce velocity in shallow waters less than 10 feet, particularly close to the coast, in river mouths, in sea grass beds and mangroves.)
- Si observa un manati mientras usted está en el agua, obsérvelo pasivamente, no lo persiga, acose o lo toque. (If you observe a manatee while in the water, passively observe it, do not follow it, nor harass or touch.)
- No tire basura al agua. El manatí puede ingerirla o enredarse en ella, lo cual podría causarle heridas o la muerte. (Do not throw trash in the water. Manatees may ingest or entangle on trash, which may injure or kill it.)
- Nunca alimente o le ofrezca agua a un manatí. Es ilegal y los malacostumbra a acercarse a lugares donde pueden ser lastimados. (Never feed or give water to a manatee. It is illegal and will wrongly habituate them to approach areas where they can be injured.)

Informe accidentes con un manatí inmediatamente. Si encuentra un bebé manatí solo, en peligro, herido o muerto, Ilame al Cuerpo de Vigilantes del Departamento de Recursos Naturales y Ambientales al 787-724-5700 o al Programa de Rescate de Mamíferos Marinos al 787-833-2025, 787-538-4684 ó 787-645-5593. (Inform any accident with a manatee immediately. If you find a baby manatee alone, in danger, injured or dead, call the Department of Natural and Environmental Resources Law Enforcement of at 787-724-5700 or the Marine Mammal Rescue Program at 787-833-2025, 787-538-4684 or 787-645-5593.)

Herir o matar un manatí puede conllevar multas de más de \$50,000 y/o no menos de dos años de cárcel. ¡EVÍTESE ESE RIESGO!

(Harming or killing a manatee could carry fines of more than \$50,000 and/or not less than two years in prison. AVOID THIS RISK!)

GRACIAS POR AYUDAR A SALVAR LOS MANATÍES THANKS FOR HELPING SAVE THE MANATEES





- FWS Blanket Clearance Letters
 - Federal Highway Administration
 - Federal Transportation Authority
 - Housing and Urban Development
 - Rural Development
 - Federal Communication Commission



United States Department of the Interior

FISH AND WILDLIFE SERVICE Caribbean Ecological Services Field Office P.O. Box 491 Boqueron, PR 00622

JAN 1 4 2013



In Reply Refer To: FWS/R4/CESFO/BKT/FCC

We have determined that communication towers to be located on urbanized areas and vacant lots deprived of forested habitats are not likely to adversely affect federally-listed species under our jurisdiction. Furthermore, consultation pursuant section 7 of the Endangered Species Act would not be needed for projects that meet the following criteria.

Islands. The U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office has been providing technical assistance to private companies regarding the possible effects of communication towers (including radio, television, cellular, and microwave) on fish and wildlife resources, including federally-listed species and migratory birds.

We have determined that communication towers to be located on urbanized areas and vacant lots deprived of forested habitats are not likely to adversely affect federally-listed species under our jurisdiction. Furthermore, consultation pursuant section 7 of the Endangered Species Act would not be needed for projects that meet the following criteria.





NOAA-NMFS Website and Internet Tools

http://sero.nmfs.noaa.gov/protected_resources/index.html



PROGRAMS

Protected Resources Division

The Protected Resources Division is responsible for the Conservation, protection, and recovery of marine mammals and Endangered Appear and threatened species. We implement the Marine Section 7 Consultat rotection Act (MMPA) and Endangered Species Act (ESA).

protected marine species for future generations in the waters of the southeastern United States, Puerto Rico, and the U.S. Virgin

06/21/2013

Johnson's Seagn

Marine Mammals

Marine Mammal A

Pelagic Longline

Attantic Large Wh

ES

Sawfish

Section 7 Consultations

Menu

Threatened and Endangered Species Lists

Outreach and Education Materials

Listing Petitions

Endangered Species

Sea Turtles

Sturgeon

Johnson's Seagrass

Sawfish

Coral

Species of Concern

Marine Mammals

Bottlenose Dolphins

North Atlantic Right Whales

Marine Mammal Health & Stranding

Marine Mammal Authorization Program

Pelagic Longline Take Reduction Plan

Bottlenose Dolphin Take Reduction Plan

Atlantic Large Whale Take Reduction Plan

How to Submit a Consultation

Instructions on how and where to submit a complete consultation request packet of information.

How to Track your Consultation in PCTS

Instructions are provided to track consultations on-line.

Frequently Requested **Biological Opinions**

Copies of biological opinions of significance for fisheries, dredging, and various regulatory actions.

Effects Determination Guidance

Information on how to determine the level of effect your project might have to listed species and/or critical habitat.

Observer Lists

An updated list of NMFS-approved, ESO-qualified individuals and ESOprovider companies, as well as information on companies that provide marine mammal observers to industry.

> **Endangered Species Act** Policies, Guidance, and Regulations

Helpful guidance documents in reference to Section 7 consultation preparation.

Species and Critical Habitat Found in the Southeast Region

Find out which ESA-listed or proposed for listing species and critical habitat are found in your state or region.

Emergency Consultations

Information about emergency consultations, procedures, and related















NOAA-NMFS Vessel Strike Avoidance Measures

and artifacts				NOAA Fisheries Service Southeast Region Ship Strike Report - Continued
NOR	6.	Reporter Infor	NAVIGATION INFORMA Vessel Activity	Time elapsed between sighting and collision Distance from vessel when first sighted
Backgr The Na injure o The fol vessel s	Additio 1.	Strike Vessel II TYPE OF VESSEL: Ch	Total # of watchstander	Animal's orientation to the vessel
contact the dev	2.	☐ Container ☐ Tanker ☐ Freight	INCIDENT INFORMATIO	What direction was the whale traveling
Protect Vessel protect Caribbe informs ship str sighting	3.	Research Fishing Name of Vessel invol	Part of vessel struck by	Briefly describe whale's behavior prior to strike Briefly describe whale's behavior after collision (if seen)
Vessel In order measur	4.	Vessel Make	Was avoidance action to	
1.	Injured Vessel regardi			Portion of animal struck Condition post-strike Blood seen in water after strike Description of wounds on animal. Use drawings to mark the location of wound(s). Include estimates of length and depth of wounds.
2.		Observed or N Date of Strike		Description of woulds on animal. Ose drawings to mark the location of would(s): Include estimates of length and deput of woulds.
3.	If the ir respons as need		Comments on damage	
4.	email (i For ad NOAA			
5.	Souther 263 13 St. Pete Tel: (72 Visit us	Wave Height		
NMFS S	NMFS S			





NOAA-NMFS Sea Turtle Construction Conditions



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southeast Regional Office
263 13th Avenue South
St. Petersburg. FL 33701

SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006 O:\forms\Sea Turtle and Smalltooth Sawfish Construction Conditions.doc







USACE / NOAA-NMFS Dock Construction Guidelines

Construction Guidelin or over Submer U.S. Army

Submerged Aquatic Vegetat

- 1. Avoidance. The piling-sup
- 2. The height of piling-suppo surface of the decking.
- 3. The width of the piling-sup supported structures greater structure no more than 10 fe midpoint of the piling-suppor
- 4. Over-SAV bed portions of t extent that is practicable.
- 5. a. If possible, terminal plat
- b. If a terminal platform is p be limited to 160 square feet configuration of the platform the 5-foot height requirement; long axis of the platform show
- c. If the terminal platform i limited to 120 square feet. T minimum 4-foot wide by 20-fo feet above MHW to facilitate platform should be aligned in section is constructed with gr
- 6. One uncovered boat lift at used) may be added to facilit may be added along the stern catwalk shall be cantilevered
- 7. Pilings shall be installed: "halos") around the newly ins pressure pump may be used.
- 8. The spacing of pilings thro
- 9. The gaps between deckbox

Marsh:

Grid Specifications and Suppliers Se February 2003 - Manufacturer na May 2003 - The terms dock and p March 2008 - Added requiremen

- 1. The piling-supported structu
- 2. The over-marsh portion of the
- 3. The width of the piling-su accompanied by an equal incre

Mangroves.

- 1. The width of the piling-supp
- 2. Mangrove clearing is restric
- The location and alignment

The following information does any particular provider and is p piling-supported structure cons form of grids, grates, lattices, materials used in constructio percent open space.

A type of fiberglass grate panel (1-800-527-4043). A type of p Plastic grate panels are also dis available in a variety of sizes a integrally molded into the top s load-bearing capacity of the sel manufacturer(s) for product spe

Grid Specifications and Suppliers Sect March 2008 - Added requirement t

ERDC/EL TR-08-41

Environmental Laboratory



US Army Corps of Engineers Engineer Research and Development Center

Wetlands Regulatory Assistance Program

Evaluation of Regulatory Guidelines to Minimize Impacts to Seagrasses from Single-family Residential Dock Structures in Florida and Puerto Rico

Deborah J. Shafer, Jocelyn Karazsia, Lisamarie Carrubba, and Craig Martin

October 2008





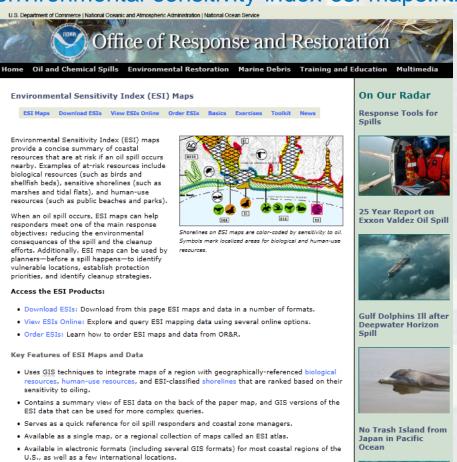


Approved for public release; distribution is unlimited.



NOAA Environmental Sensitivity Index Maps

http://response.restoration.noaa.gov/maps-and-spatial-data/environmental-sensitivity-index-esi-maps.html



ESI maps are created by NOAA OR&R researchers, working with colleagues in state government

agencies, federal government agencies, and industry.



NOAA Environmental Sensitivity Index Maps

http://response.restoration.noaa.gov/maps-and-spatial-data/ environmental-sensitivity-index-esi-maps.html

U.S. Department of Commerce | National Oceanic and Atmospheric Administration | National Ocean Service



Office of Response and Restoration

Oil and Chemical Spills Environmental Restoration Marine Debris Training and Education

Multimedia

Threatened and Endangered Species Databases

ESI data contain a wealth of information about coastal and near-shore biological resources that may be at risk in the event of an oil spill. Sometimes, the abundance of information mapped is overwhelming to those who use the data intermittently. The Threatened and Endangered Species (T&E) databases make some of the most critical resources easier to access. (A January 2013 blog post provides more information about these databases.)

Each T&E database consists of multiple layers, each representing one species that is listed by either the state or federal government as threatened, endangered, or a species of concern. The map objects have embedded attributes, including the threatened and endangered status (both federal and state) and the year the data were mapped, as well as the species' monthly presence, seasonal breeding activities, and concentration (abundance). The year the data were mapped is important because ESIs are a "snapshot in time," and federal and state status can change. There is also a supporting source table which provides information about the original data provider.

By looking at each species individually, you can more easily visualize where and when a particular species may be at risk and needing protection from oiling or spill clean-up activities.

Access the ESI data: ESI Threatened and Endangered Species ₽



ArcGIS	Му Мар				New Ma	p My Content *	Help *	Sign In
Details	♦ Add + 🔡 Basemap	Save * • Share	⊕ Print	Measure	⚠ Bookmarks	Find address or plac	ie .	Q.

On Our Radar

Response Tools for Spills



25 Year Report on **Exxon Valdez Oil Spill**





NMFS Section 7 Checklist (January 2014)

	4. Mangrove	1. Pro	11. Construct	3. Effects to Critical Habitat:
	i. Specii. Area		i. In-wa ii. Num	 i. Identify which essential feature(s) are present, if they will be impacted, and how they will be impacted ii. Size of area affected (square footage) - Mangroves (linear footage of shoreline)
A) Project Id	II. Aled	vi. Height abo	II. Nulli	iii. How will the habitat be changed/altered as a result of the action
		vii. Directional		·
Lead Action Ag		VII. Directional		
	5. Corals:	viii. Overwater	Mitigation	Revised on: January 28, 2014
A C t	i. Sper ii. Loca		How is	
Agency Contac	11. LOC	ix. Will Sea Tur		
		4. Pilings &		
Applicant Name/		i. Co	E) Effects o	
rippinearier tarrey	D) Project	ii. Pro	E) Ellects o	
		iii. Ha	 Listed Spe 	
Project Name 8	1. Project: (P		i. Please	
		5. Boat Slips	ii. For in "Spec	
		i. Nu	please	
B) Project Lo		ii. Hig	Speci	
	2. Methods:	iii. Est		
 Address and 	i. Cor		Select One	
	ii. Der iii. Loc	6. Boat Ram	Select One	
0.1.1.1.0.1		i. Nu	Select One	
 Latitude & L Decima 		ii. Nu	Select One	
ii. Online	3. Overwater	iii. Tra	Select One	
	5. Overwater		Select One	
	i. Is the propose			
3. Waterbody:		7. Shoreline i. Pro	Select One	
i. Name d ii. If riveri	ii. If no, is this a	stru	Select One	
II. II riveri			Select One	
			Select One	
		8. Dredging	Select One	
C) Project Si		i. Dre	Select One	
1. Existing Stru		ii. De	Select One	
i. Marina		iii. Are iv. Vo	Select One	
ii. Numbe		v. Sp	Select One	
	iii. Will Dock Gu	be	Select One	
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	IV. II III JOHNSON	9. Blasting i. Exp	2. Effects to S	
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 Seagrasses 8 If a ber 	2			
ii. Specie	(a) Grated (yes/			
iii. Locati	v. Type of de	10. Artificial		
		Please		
	1. 43%			
	(b) Wooden pla			
	,			





Regional Issues - Puerto Rico

- NMFS PRD Consultation Timeframes
 - Extensive backlog and delay in consultations
 - Monthly meetings between USACE and NMFS
- Critical Habitat for Acropora spp.
 - Identify presence of essential features
- Seven new proposed coral species September 2014
- Pre-application consultations and Interagency Meetings
 - Limited use
 - Monthly interagency meetings
 - Not to fill application form
 - Corps cannot design project
 - Identify challenges and offer guidance





What about ATF?

- No ESA Section 7 Consultation on ATF
- Because all federal agencies must ensure that any action they authorize, fund or carry out is not likely to jeopardize.... That cannot be done if the action has already occurred prior to authorization.
- Be sure you obtain a permit or obtain an NPR prior to construction





Highlights

- Listed species issues will continue to be challenging
- USACE makes the effect determination and initiates consultation
- Consider the federal process in your project design
- Species surveys, habitat and benthic assessments may be needed
- Submit Section 7 information with permit application
- Take advantage of existing tools and resources
- No ESA Section 7 Consultation on ATF



