

### Habitat Protection in the Magnuson-Stevens Act

Provisions councils can use to <u>conserve</u> & <u>protect</u> our fisheries' habitat and ensure long-term sustainability

A Presentation by NOAA Fisheries, Office of Habitat Conservation, for New Council Members

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EFH Deep-sea Corals EBFM

# **Key Learning Objectives**

Councils can drive habitat protection & conservation using provisions of the Magnuson-Stevens Act to:

- Define & refine essential fish habitat regulatory designations
- Exercise Deep-sea coral habitat conservation authority
- Integrate habitat conservation into management decision (i.e., EBFM)





### Habitat is a Congressional Priority



The Magnuson-Stevens Act was <u>amended & reauthorized</u> to prioritize habitat conservation and protection

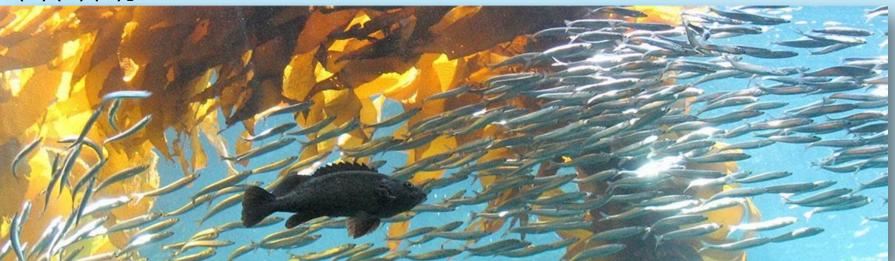
- 1996 Sustainable Fisheries Act: Bycatch, Rebuilding, Essential Fish Habitat
- 2007 MSA Reauthorization Act:
   Community-Based Restoration Program,
   Deep Sea Coral Research & Technology
   Program, Deep-sea coral protection



# Ignoring Habitat is a Big Risk

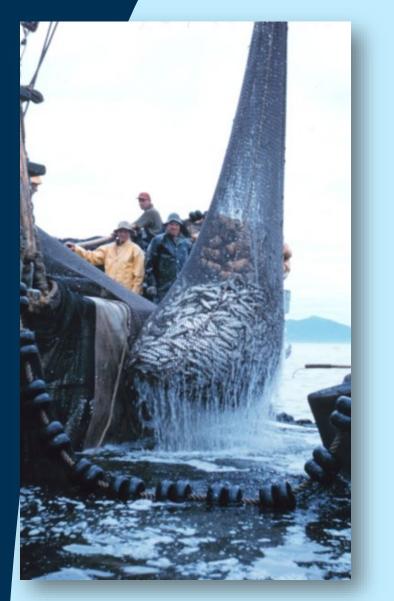
### The MSA makes the stakes clear:

- "...direct and indirect habitat losses... have resulted in a diminished capacity to support existing fishing levels." [MSA § (2)(a)(2)]
- "One of the greatest long-term threats to the viability of... fisheries is the continuing loss of marine, estuarine, and other aquatic habitats." [MSA § (2)(a)(9)]





### The Role of EFH for Fisheries



Essential fish habitat means those <u>waters</u> <u>and substrate</u> necessary to fish for spawning, breeding, feeding, or growth to maturity." [MSA §3 (10)]

The Magnuson-Stevens Fishery Conservation and Management Act (MSA) establishes a national program for the **conservation and management** of the fishery resources to prevent overfishing, rebuild overfished stocks, ensure conservation, **facilitate long-term protection of essential fish habitats,** and realize the full potential of the Nation's fisheries.





Congressional concern for habitat and the foundational role it plays in Ecosystem-Based Fishery Management (EBFM) Created EFH Program

> Establishes roles for Councils and NOAA Fisheries

[Next]

# **EFH Roles & Responsibilities**



### EFH Designations (Council-led)

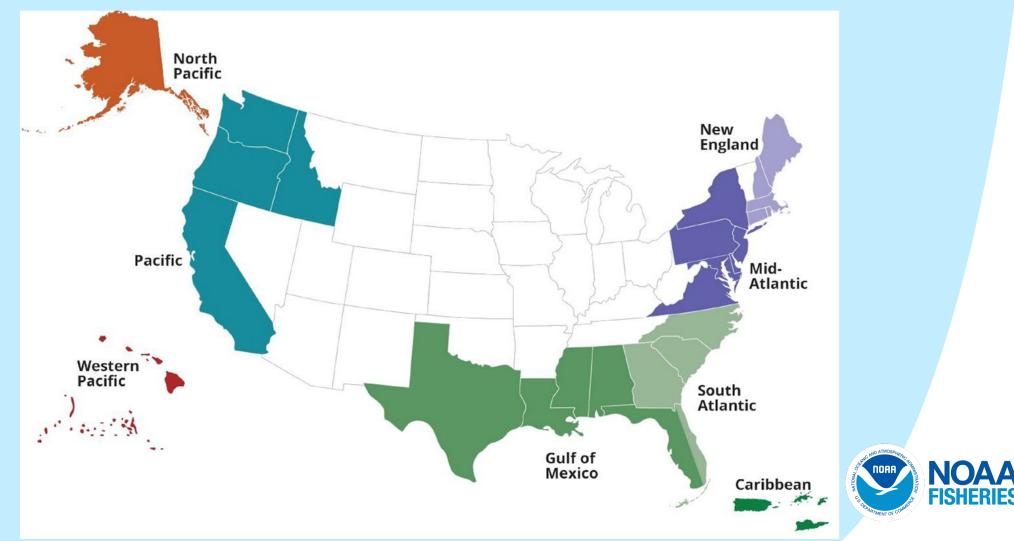
- Describe & identify EFH by life stage
- Designate Habitat Areas of Particular Concern
- Produce maps to display designations
- Minimize adverse effects of fishing on EFH

### **EFH Consultations** (NOAA Fisheries-led)

- NOAA Fisheries must consult on non-fishing actions that may adversely affect EFH
  - Councils may consult on non-fishing actions, and must consult on impacts to diadromous fish habitat



### Council-led EFH Responsibilities: EFH Designations



# **Examples of EFH**











Provide conservation recommendations on proposed projects that will have substantial adverse effects on EFH

#### Fishery Management Council Roles

NORA

Minimize adverse effects of fishing on EFH

Describe & identify EFH by life stage in FMPs

Produce maps to display EFH designations

**Designate HAPCs** 

NOAA Fisheries Roles

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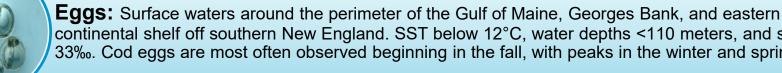
Describe & identify EFH by life stage in FMPs

NOAA Fisheries Roles

Produce maps to display EFH designations

Designate HAPCs

### An Example of EFH Description: **Atlantic Cod**



continental shelf off southern New England. SST below 12°C, water depths <110 meters, and salinity 32-33‰. Cod eggs are most often observed beginning in the fall, with peaks in the winter and spring.

**Larvae:** Pelagic waters of the Gulf of Maine, Georges Bank, and eastern continental shelf off southern New England. SST <10°C, water depths 30-70 meters, and salinity 32-33‰. Cod larvae are most often observed in the spring.



**Juveniles:** Bottom habitats with a substrate of cobble or gravel in the Gulf of Maine, Georges Bank, and eastern continental shelf off southern New England. Water temperatures below 20°C, depths 25 - 75 meters, and salinity 30 - 35‰.



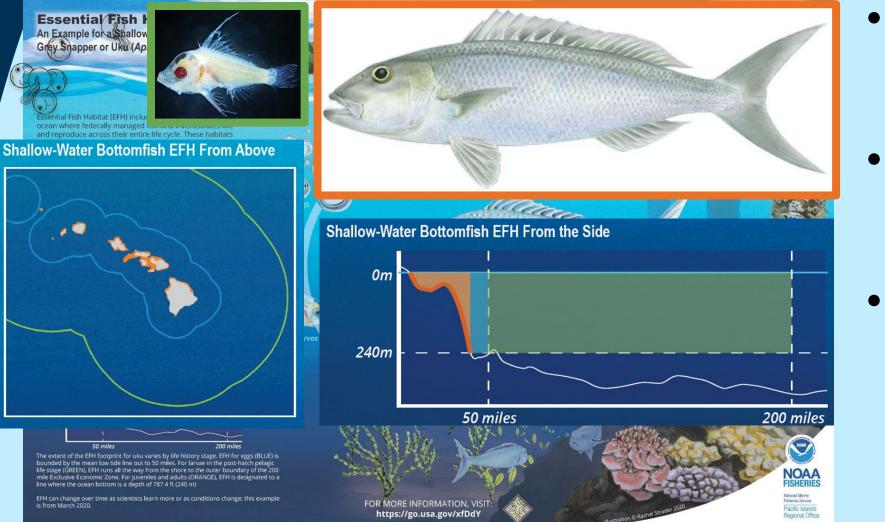
**Adults:** Bottom habitats with a substrate of rocks, pebbles, or gravel in the Gulf of Maine, Georges Bank, southern New England, and the middle Atlantic south to Delaware Bay.

Water temperatures <10°C, depths 10 - 150 meters, and a wide range of oceanic salinities.



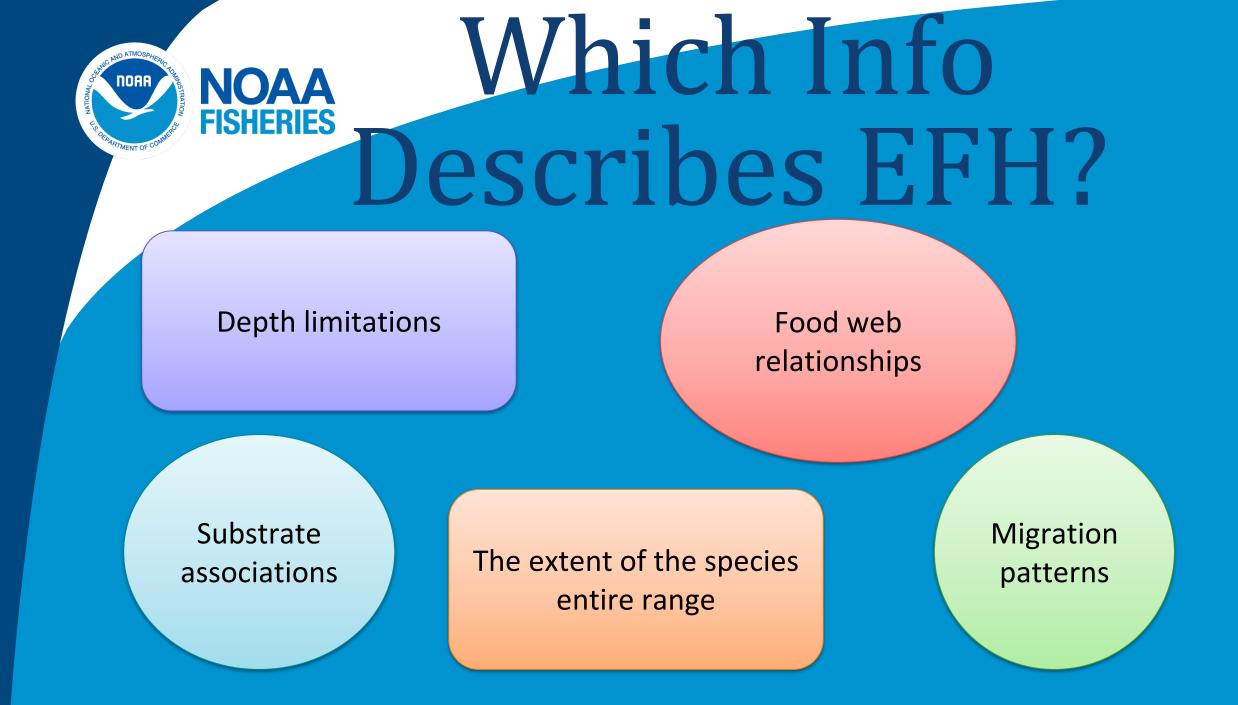
https://www.fisheries.noaa.gov/feature-story/new-habitat-protections-young-cod

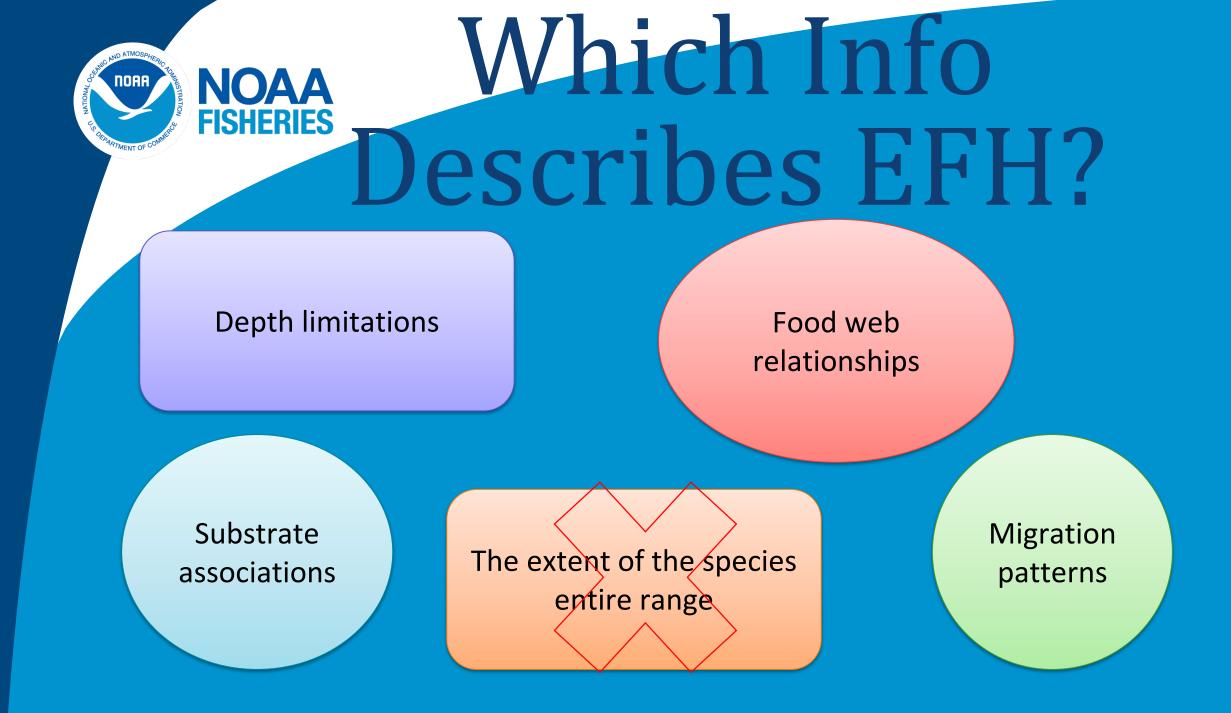
### An Example of EFH Description: UKU



- Eggs EFH: water column from mean low-tide line out to 50 miles
- Larvae EFH: water column shore to the outer boundary of the EEZ
- Juvenile & adult EFH: all bottoms and water column to a depth of 240 m, almost 800 feet







# **Designating EFH is Iterative**



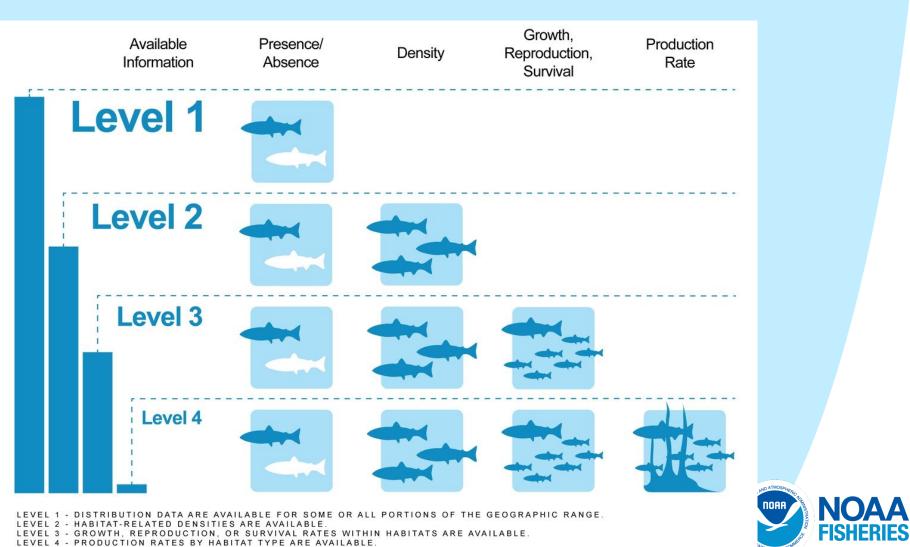
Improve EFH Definitions

- EFH is identified using the BSIA
- Levels of information are categorized 1-4
- Most EFH designations are based on low levels of information, often resulting in broad designations
- Often levels can be and should be increased through investment in filling information gaps (i.e., scientific research)



### **Levels of EFH Information**





### HAPCs – a Focused EFH Designation

### **Habitat Areas of Particular Concern**

- Are a subset EFH designation for particularly sensitive, vulnerable, and rare habitats designated as EFH.
- Communicate habitat conservation and management priorities, and encourage increased scrutiny.



# NOAA Not for HAPC?

The importance of the ecological function provided by the habitat Whether, and to what extent, development activities are, or will be, stressing the habitat type

The rarity of the habitat type

The extent to which the habitat is sensitive to human-induced environmental degradation The importance of cultural resources at that site

### **EFH is Foundational for EBFM**



### **Defining & Refining EFH**

- Non-fishing consultations to ensure the habitat baseline does not shift
- EFH 5 year reviews to incorporate new information
- Productivity estimates from level 4 designations can be used with stock assessments to inform decisions

### Minimizing adverse fishing effects\*

 Councils are required to minimize adverse effects caused by fishing [MSA § 303(a)(7)]

\*over 1 billion acres of EFH have been protected from harmful fishing practices since 2004

# Key Takeaways – EFH designations Defining & Refining EFH

- Identified, described and mapped in FMPs for each life-stage of each managed species
- Can be the water column & bottom habitats, and their associated features (e.g., prey)
- Designations should be smaller than the species' entire range, but enough to serve as a buffer in an uncertain future
- Investment in increasing the "levels of information" improves the specificity of designations and can inform catch limits.



### **NOAA Fisheries-led EFH Consultations**

Federal action proponents <u>must consult</u> with NOAA Fisheries on actions that may adversely affect EFH



#### ~5,000+ federal actions every year across many Federal agencies









### **Councils' Consultation Role**

According to the MSA [§305 (b)(3)] and the CFR (50 §600.30):

- Councils must comment on actions that are likely to substantially affect the habitat of anadromous fish
- Councils may comment on actions that may affect the habitat of a fishery resource under its authority



#### Winthrop Beach Restoration

Mass. sought permit to mine offshore sand & gravel

**NEFMC** weighed in on impacts to juvenile cod EFH

**Result:** Army Corps denied permit; alternative source of substrate identified.



### **Developing Recommendations**

- May include ways to avoid, minimize or compensate for unavoidable adverse effects.
- Must be a clear measure the action agency can take using its existing authority.
- Should be transparent and address a specific concern or issue (i.e., stressor).
- Must be provided in writing and be clearly identified.



**Example:** Department of Energy Construction, operation and maintenance of a 336-mile transmission cable.

EFH Conservation Recommendation: No in-water work from January 15 to May 31 to minimize impacts to spawning and early life stages of winter flounder.

# When Must Councils Comment?

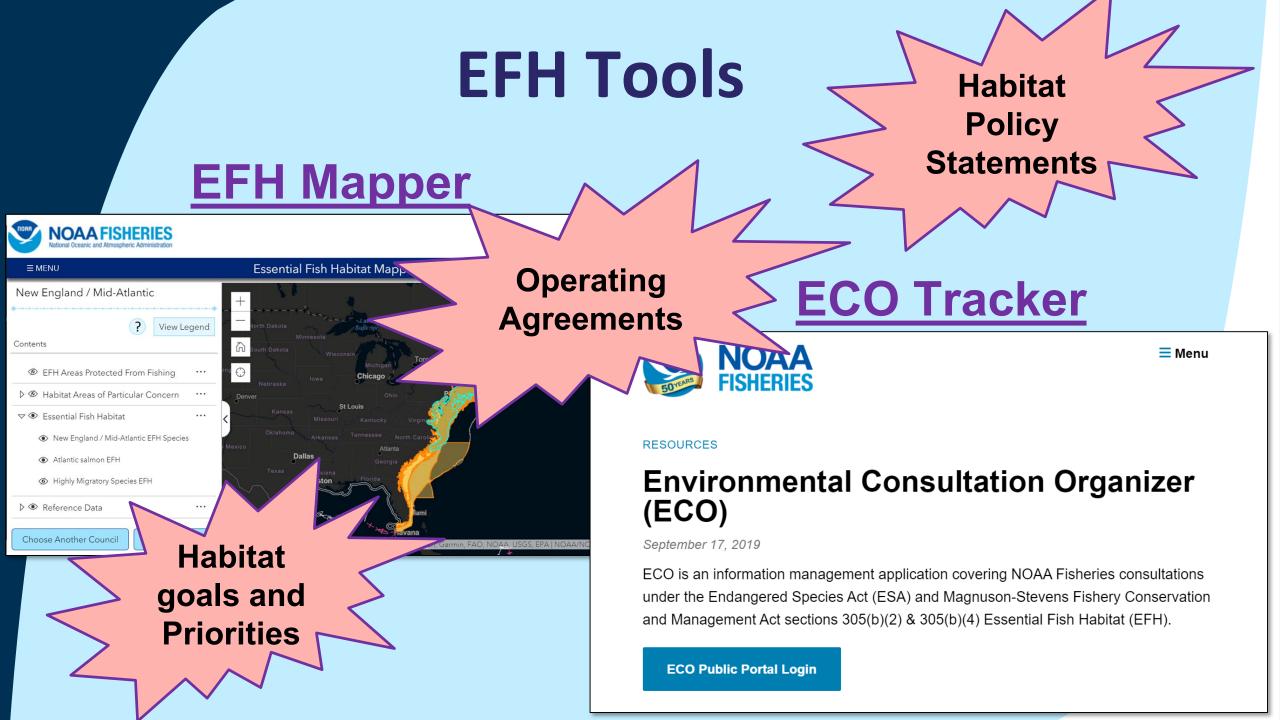
#### Any proposed federal action that may have adverse effects on EFH

Actions when adverse effects may be substantial on EFH in Federal waters

Actions where adverse effects may be substantial on anadromous EFH

# When Must Councils Comment?

Actions where adverse effects may be substantial on anadromous EFH



### **EFH Guidance Updates**

### **2022 Revisions & Climate Change Guidance**

fisheries.noaa.gov/national/laws-and-policies/habitat-conservation-and-restoration-policy-directives 🔍 🍳 🚖 ★						
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LAWS AND POLICIES

#### Habitat Conservation and Restoration Policy Directives

NOAA Fisheries Policy Directive System



- Guide to EFH Consultations was revised
- Combining EFH & ESA Consultations was revised
- Climate change guidance was recently completed



### **EFH Resources**

#### **Regional EFH Coordinators:**

https://www.fisheries.noaa.gov/contact-directory/regional-essential-fish-habitat-coordinators

#### **Guidance documents:**

#### NMFS Habitat Directives (i.e., Policy/Guidance):

https://www.fisheries.noaa.gov/national/laws-and-policies/habitat-conservation-and-restoration-policy-directives

#### **Refining the description and identification of EFH:** https://www.fisheries.noaa.gov/webdam/download/64681961

#### **EFH essentials:**

National website: https://www.fisheries.noaa.gov/national/habitat-conservation/essential-fish-habitat

Magnuson-Stevens Fishery Conservation & Management Act: https://www.fisheries.noaa.gov/topic/laws-policies

**EFH Final Rule:** https://www.federalregister.gov/documents/2002/01/17/02-885/magnuson-stevens-act-provisions-essential-fish-habitat-efh

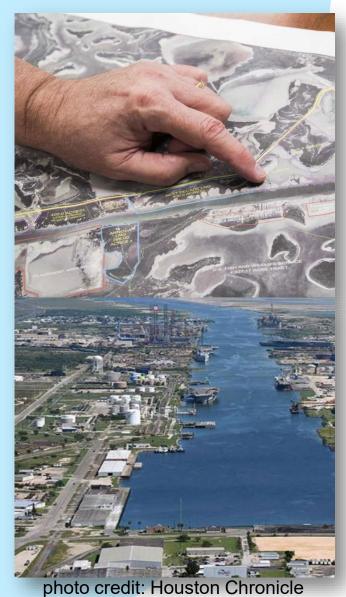
**EFH Consultation Tracking:** https://www.fisheries.noaa.gov/resource/tool-app/environmental-consultationorganizer-eco

EFH Mapper and Data Inventory: https://www.fisheries.noaa.gov/resource/map/essential-fish-habitat-mapperFISHERIES

# Key Takeaways – EFH Consultations

### Addressing non-fishing effects

- EFH conservation recommendations developed through consultation are a key mechanism to improve the ecosystem's ability to support catch levels
- Councils have a vital role to play in consultation, but it requires close coordination with NOAA
   Fisheries to be most effective.
- There are numerous tools and habitat initiatives that are available that can help with consultations.



### **Deep-sea Corals**

### **Fragile**, **long-lived** animals that often form **complex** structures

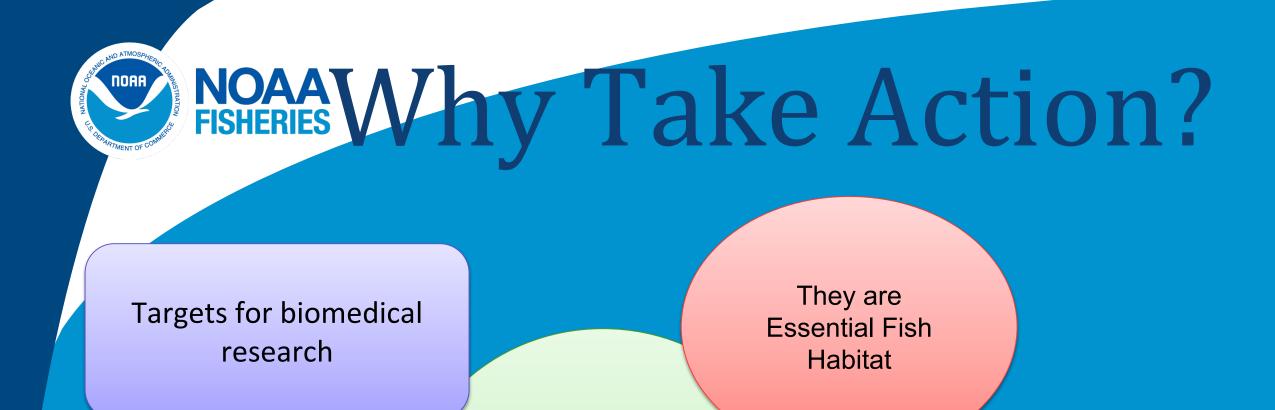
- Provide habitat for many commercial species
- Hotspots of biological diversity
- May be essential fish habitat

- Vulnerable to human impacts
- Generally found deeper than 50m
- Targets for biomedical research









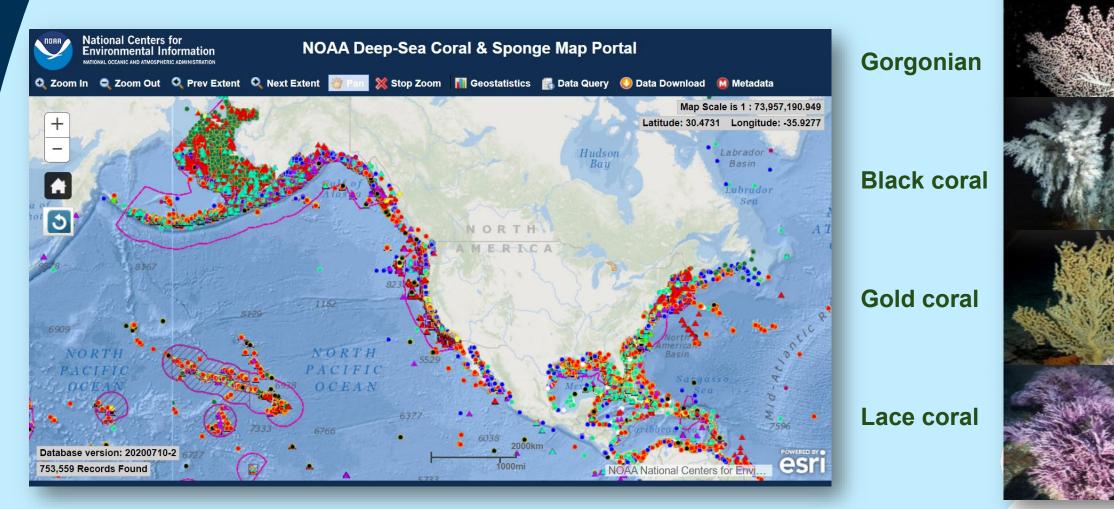
Hotspots of biological diversity Vulnerable to human impacts

Provide habitat for other species

# Where are Deep-sea Corals?

**Stony coral** 

### **Structure-Forming Deep-Sea Corals**



### Deep-sea Coral Research & MSA

MSA re-authorization (2007) <u>established</u> Deep Sea Coral Research and Technology Program (MSA §408) to:

- Identify existing research & known locations of deep-sea corals.
- Monitor activity in deep-sea coral locations.
- Conduct research & locate and map locations of deep-sea corals.



### **Deep-sea Coral & EFH**

MSA requires Councils to <u>minimize the impacts of fishing</u> to essential fish habitat [MSA §303(a)(7)]

If described as EFH, Councils must protect deep-sea corals from fishing; examples: • Late juvenile & adult yelloweye rockfish (NPFMC)

- Coral species in Coral FMP (SAFMC)
- Deep water coral HAPCs (GMFMC)



### NOAA FISHERIES DSCs as EFH?

#### Councils may designate DSCs as EFH in their own FMP

Councils may designate DSCs as HAPC without designating EFH

Councils may designate DSCs as EFH for another managed species

However there are two other ways to protect DSCs!!!

### **Deep-sea Coral & Bycatch**

Conservation and management measures shall, to the extent practicable, <u>minimize bycatch</u> [MSA §301(а)(9)]







### **Deep-sea Coral Zones**

### MSA gives Councils <u>discretionary authority</u> to protect deepsea corals from fishing [MSA 303(b)(2)(B)]

- Councils may designate deep-sea coral zones in areas identified by the Deep Sea Coral Research & Technology Program
- Councils may protect corals from physical damage from fishing gear within zones
- Councils may establish measures to limit damage



# Key Takeaways – Deep-sea Corals

The DSCRTP was created to gather and provide scientific info needed by Councils to conserve and manage DSC ecosystems

- DSC are vulnerable to fishing gear and recover slowly, if they recover at all
- The DSCRTP funds research and provides results to Councils to conserve and manage ecosystems
- DSC can be protected through EFH designation plus related regulations, discretionary authority, a specific FMP, and/or bycatch authority



### **Deep-sea Coral Resources**

•Deep Sea Research and Technology Program and Data Portal: https://deepseacoraldata.noaa.gov/

•The State of DSC Ecosystems in the US report: https://deepseacoraldata.noaa.gov/library/2015-state-of-deep-sea-corals-report

•Deep Sea Research and Technology Program 2022 Report to Congress: <u>https://repository.library.noaa.gov/view/noaa/48863</u> (also can link from first website listed on this page, under publications)

•NOAA Strategic Plan for DSC and Sponge Ecosystems: http://coris.noaa.gov/activities/deepsea\_coral

Email heather.coleman@noaa.gov for more information



### **Taking Habitat Home: Next Steps**



- Invest in habitat science
  - Implement a more strategic approach to habitat conservation

Integrate habitat conservation into fishery management decisions





# Thank you for your attention!

See you next year!

