ESTIMATED TIME

1 HOUR

MEMORANDUM

TO:

Council, SSC and AP Members

FROM:

Clarence G. Pautzke

Executive Director

DATE:

October 4, 1999

SUBJECT:

Essential Fish Habitat

ACTION REQUIRED

Preliminary Review of Habitat Areas of Particular Concern analysis.

BACKGROUND

Habitat areas of particular concern (HAPC) are those areas of special importance that may require additional protection from adverse effects. HAPC is defined on the basis of its ecological importance, sensitivity, exposure, and rarity of the habitat. Several habitat types have been already identified as HAPC as part of the essential fish habitat amendments. These HAPC's included:

- 1. Living substrates in shallow waters (e.g., eelgrass, kelp, rockweed, mussel beds, etc.)
- 2. Living substrates in deep waters (e.g., sponges, coral, anemones, etc)
- 3. Freshwater areas used by anadromous fish (e.g., migration, spawning, and rearing areas)

In October 1998, the Council approved for analysis several proposals regarding habitat areas of particular concern (HAPC). These proposals requested that a gap analysis be prepared, and additional habitat types and areas be designated as HAPC. Proposed HAPC habitat types included seamounts and pinnacles, the ice edge, the shelf break, and biologically-consolidated fine-grained sediments. Proposed specific HAPC areas included a deep basin in Prince William Sound, the Chrikov Basin north of St. Lawrence Island, and the red king crab bycatch areas around Kodiak Island.

The HAPC technical team has completed a preliminary analysis of HAPC types and alternatives to minimize potential impacts. An executive summary of the analysis is provided as <u>Item C-9(a)</u>. At this meeting, the Council will review the analysis and provide additional direction to staff. Note that the Ecosystem Committee has recommended additional options to be analyzed. Initial review of this amendment package has been tentatively scheduled for December and final action in February 2000.

Executive Summary

This Environmental Assessment/Regulatory Impact Review (EA/RIR) addresses alternatives to protect and conserve habitat of finfish, mollusks, and crustaceans. The Magnuson -Stevens Act mandates that any fishery management plan (FMP) must include a provision to minimize to the extent practicable adverse effects on such habitat caused by fishing, and identify other actions to encourage the conservation and enhancement of such habitat.

The action identified in this EA/RIR is to define and identify additional habitat areas of particular concern (HAPC) in the North Pacific and implement management measures to minimize adverse impacts of fishing and non-fishing threats on HAPC to the extent practicable. These HAPC areas and management measures would be included in the five FMPs: the BSAI groundfish, GOA groundfish, BSAI crab, scallop, and salmon FMPs. The alternatives analyzed in the EA/RIR are the following:

Alternative 1: Status Quo. The FMPs would not be amended to add additional HAPC types and areas, and no additional measures would be taken to protect HAPC from potential effects caused by fishing and non-fishing activities.

Alternative 2: Amend the FMPs to include additional HAPC types and areas, and take additional measures to protect HAPC from potential effects caused by fishing and non-fishing activities.

A. Proposed HAPC habitat types

- 1. Seamounts and pinnacles (especially those that extend into the photic zone)
- 2. Ice edge
- 3. Shelf break or shelf edge domain (e.g., Bering Sea "greenbelt")
- 4. Biologically-consolidated fine-grained sediments

B. Proposed specific HAPC areas

- 1. A deep basin in Prince William Sound
- 2. The Chrikov Basin north of St. Lawrence Island
- 3. The red king crab bycatch areas around Kodiak Island

C. Options for Fishery Management Actions (proposed by analysts). Note that both Option 2 and Option 3 can be adopted.

Option 1. Status quo. No additional fishery management actions to protect HAPC from

fishing impacts would be taken.

Option 2. Reclassify some living substrate HAPC as a prohibited species. This would

specifically prohibit retention of all corals, sponges, kelp, rockweed, and mussels, all of which have commercial potential but are currently categorized in the groundfish plans as non-specified species (and hence have no catch

limits or reporting requirements).

Option 3. Establish no fishing zones in areas of Gorgonian coral abundance.

The goal of these FMP amendments is to provide additional protection of EFH from potential adverse effects due to fishing and non-fishing related activities through the identification of HAPCs. The information on HAPC conservation recommendations provided by NMFS or the Councils should encourage avoidance of activities that may adversely affect fish habitat in these areas. Conservation recommendations may advise the use of environmentally sound engineering and management practices (e.g., seasonal and gear restrictions, specific dredging methods, and disposal options) for all fishing and non-fishing related activities. If implemented by the action agencies, EFH/HAPC conservation recommendations provided by a Council or NMFS will improve

the conservation of important aquatic habitats and the associated ecosystem. All of the alternatives to the status quo would be expected to benefit fish populations and their habitats, provide for improved long-term productivity of the fisheries, and benefit the vulnerable marine ecosystems.

Some of the proposed HAPC habitat types and areas ranked higher than others relative to the criteria specified in the guidelines for essential fish habitat. Analysis indicated that seamounts and pinnacles should receive HAPC type designation. Additionally, the deep basin in Prince William Sound should be designated as a specific HAPC area. Designation of HAPC areas could also include the Nearshore Bristol Bay closure area, the Pribilof Island Habitat Conservation Area, and the Cape Edgecumbe pinnacles. These areas meet most, if not all, of the criteria specified for HAPC designation.

Proposed management measures would reduce adverse impacts of fishing on HAPC. The option to prohibit harvest of some HAPC species would constitute a preventative approach, in that it would prevent a commercial fishery for these HAPC species from developing. Large amounts of coral have been commercially harvested in the past for jewelry, but recent catch records show that none has been reported taken in recent years.

The option to prohibit all fishing on areas of gorgonian coral abundance would protect this vulnerable HAPC from adverse impacts due to fishing. These corals have been shown to be 1) important shelter for rockfish and other fish species; 2) very long lived; 3) easily damaged by fishing gear; and 4) slow to recover from damage. Although the proposed closure areas are small, and generally not in areas of high fishing effort, the fishing industry may incur some operational costs (as yet unquantified) associated with this measure. Nevertheless, it is unlikely that the total catch of all species would be affected by this measure.

To prohibit all fishing in the proposed coral protection areas, the Alaska Board of Fisheries would need to pass complementary regulations for fisheries under their jurisdiction (e.g., scallops, salmon, crab). For example, some fishing for golden king crabs currently occurs in the proposed closure areas in the Aleutian Islands. Under the BSAI king and Tanner crab FMP, closed areas are a category 2 measure, meaning that the regulation can be adopted by the Board after following criteria set forth in the FMP. Note that one of the criteria for closed waters is "the need to protect critical habitat for target or non-target species".

None of the alternatives are expected to have a significant impact on endangered, threatened, or candidate species, and none of the alternatives would affect takes of marine mammals. Actions taken to define or protect HAPC are not likely alter the total harvest amounts of groundfish, crab, scallops, or salmon.

None of the alternatives is expected to result in a "significant regulatory action" as defined in E.O. 12866. However, this analysis will be conducted if appropriate for each FMP amendment.

None of the alternatives are likely to significantly affect the quality of the human environment, and the preparation of an environmental impact statement for the proposed action is not required by Section 102(2)(C) of the National Environmental Policy Act or its implementing regulations.

Supplemental

Waterman's Gazette

Fishnet USA Review: Anatomy of an

of forests eleareut). hundred and fifty times the size 48 United States (or over one tal land area of the contiguous annually, almost twice the to-

would lead us to think other-SUV commercials which misleading. In spite of all the might well argue that this is driving patterns' in the U.S. But, a reader familiar with

harvest those fish. Norse and types of trawls and dredges to: these areas and use the same year the fishermen return to particular seasons-and every of particular species during known as reliable "producers" sea floor have come to be tion, particular areas on the and generation after generaafter year, decade after decade commercial fishermen. Year been since there have been generally where the fish have where the fish are-and that's ocean bottom. He heads for trawl or dredge across the icssly or randomly towing a its captain docsn't start aimdock at the beginning of a trip, cial fishing boat leaves the ing patterns. When a commerpatterns as we are about drivas sophisticated about fishing Unfortunately, few of us are New Jersey's real estate. evenly distributed over all of parking lots. Traffic isn't driving on highways or in mall lion vehicles do most of their wise, New Jersey's 4.3 mil-

where the fish are. blacktop are; fishing boats go go where the concrete and distributed. Cars and trucks aren't close to being evenly in New Jersey, fishing effects the effects of vehicular traffic if at all. This means that, like only once every several years, fish aren't-might be fished other areas -usually where the ing 40,000% annually" while "...can be trawled an astoundareas of sea floor actually Watling even report that some

Actual extent of the

New Jersey's vehicular traffic ingly huge areas, but in actualwe project the effects to seemmuch more compelling when Our traffic example sounds

> as several medium-sized land fects an area of ocean as large seems to be that fishing afmost appropriate, the point disagreement as to which are While there is some apparent by these practices each year." ous United States is affected twice the size of the contigupoint that an area of seabed the seabed has increased to the other mobile fishing gear on bottom trawling and use of these traditional fishing techat "saving" the oceans from cussed in Washington aimed Federal legislation being disgraphic theme farther, in draft clearcut." Extending this geo-.

Fun with numbers

what might be a familiar situbyy the same techniques to are such exercises? Let's apfishing gear use. But how valid garding the extent of mobile ingly startling conclusions remanipulated to force seemsome statistics were apparently In each of these examples,

tened into unrecognizability by. terrestrial habitat could be flatmost 5 million square miles of times each year. In total, almiles of land area at least 600 "problem" of New Jersey's 7,500 square could crush every square inch lersey's fleet of motor vehicles that the tire treads of New lations, it's easy to "prove" simple mathematical manipuures and some reasonably Using these conservative figleast 6,000 miles each year. that each vehicle is driven at tire at least 6 inches wide); and two tues on each side, each vehicles is one foot (at least erage tire tread width of these 1997. We assume that the avregistered in New Jersey in million cars, trucks and busses in New Jersey. There were 4.3 that motorized vehicles pose of damage to wildlife habitat paper to determine the threat Norse and Watling in their plied the methodology used by home-and the familiar-we ap-Starting a little closer to

> the most meager of scientific pretations and distortions of these are based on misinterbeing circulated, however, anti-fishing arguments that are oceans. Like so many of the logical diversity in the world's areas presaging the end of biointo biological deserts, lifeless turning huge areas of sea floor been in use for generations are fishing techniques which have trying to make it appear as if words and statistics, they are Through the clever use of by anti-logging activists). one that has been demonized, nique when properly used but mentally sound forestry techcutting (actually an environ-practice and technology of trophe" called timber clear, niques are the words, "The posed "environmental catastrawls and dredges to the supthe use of bottom-tending ests are attempting to equate anti-commercial fishing inter-In their latest assault, the

observations.

bined. That's more than 100. than the U.S. and Mexico comtakes place over an area greater worldwide trawling of seabeds By comparison, the annual the size of the state of Indiana. bare of trees) equals an area. ests clearcut (that is, stripped "Each year the number of forin the series Cheers, states; known for his bartender role turned actor most widely paign, Ted Danson, the model 101 the American Oceans Cam-Then in a fund-raising letter Congo and India combined... scabed as large as Brazil, the each year disturbs an area of ing boats is "An activity that dredging by commercial fishto conclude that trawling and through a series of exercises Norse and Les Watling go to Forest Clearcutting," Elliot Fishing Gear: A Comparison bance of the Seabed by Mobile vation Biology. In "Disturcember 1998 issue of Conseran article published in the Derecent anti-fishing ruckus in of business kicked off the most East Coast swordfish fleet out seems determined to put the Charitable Trusts program that supported by the same Pew Two marine researchers

times the size of forests

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anti-fishing campaigr

ity the effects are (relatively) has been claimed by fixed-gear and dredges aren't spread over an area seven times the size of Australia, but are concentrated proven to consistently produce fish. Likewise, this wouldseem to argue that the effects of the gear were minimal (if not, the fish would probably not still be hanging around). However, the real picture having neither the requisite dramatic impact nor the proper anti-fishing spin, let's bring in the land masses and clear-cutting analogy.

How much of New Jersey's wildlife is being destroyed by vehicular traffic each year? Certainly too much, but by no stretch of the imagination is the Garden State being turned into a biological desert by the "pulling, ripping and crushing" (Mr. Danson's words used area, tearing up the terrain, to indict trawling and dredge destroying at the non-useable ing) of the tires of over four trees and leaving behind a bioing" (Mr. Danson's words used million motor vehicles. By the same token, no matter how the figures are presented, and no matter how significant the local effects, fishing is concentrated on only limited areas of the occan bottom. And, somewhat confoundingly for the antis, these areas continue to produce fish.

How much of the ocean's bottom is really fishable?

According to Watling and Norse, "people trawl almost anywhere they want, and the sea's equivalent of ancient forests are becoming cattle pastures...." This is not quite the case. More than 80% of the total area of the world's oceans is more than a mile deep, and this is a depth that is well beyond the reach of the gear on the yast majority of modern fishing vessels. Of the remaining 20%, much is inaccessible because of geographic, political or economic considerations, and some because it

minimal because they are fo- Tishermen. While the image cused on areas that can resist of threatened "ancient forests" those effects. In the samesais certainly a compelling one, manner the effects of trawls it would appear that whatever the ocean-equivalents of these forests might be, in the greatest part of the world's oceans in limited areas that have been they would be safe from the supposed ravages of today's commercial fishing fleets.

The Clear-cutting analogy

More supposed fuel for the anti-commercial fishing fire is the idea that fishing with trawls and dredges changes the bottom, and that such changes are not acceptable. While the clear-cutting analogy (as clearcutting is popularly perceived) serves this argument well, it certainly isn't the most accurate. Clear-cutting is supposedly a one-shot harvest of all of the useable timber in an logical wasteland with no provisions for or thought of future logging or any other natural or unnatural use.

It would seem, particularly in the face of inarguable proof, that areas of the ocean bottom have been trawled and dredged for generations and have produced fish continuously, that these fishing techniques are much closer to agriculture than to clear-cutting. The fishing grounds aren't cropped once and abandoned as in clear-cutting. After harvesting, the fishing grounds aren't left in a condition that would prevent them from being harvested again for decades. And there is evidence that the changes brought about by trawling or dredging will in some instances actually increase the production of the species being harvested. The dramatic impact and the anti-fishing appeal of the clear-cutting comparison is obvious. The

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accuracy, however, seems seriously lacking.

Comparing trawling and dredging to agricultural techniques, while obviously much more accurate, would just as obviously be much more troubling to the anti-fishing forces. The idea of continuously producing a food crop from an area of ocean bottom-even ackknowledging the fact that harvesting that crop might be altering the bottom-would certainly seem to be more acceptable to the public than "clear-cutting" the bottom, and successful PR campaigns aren't built around attacking acceptable practices.

—Fishnet USA. May 1999, faxed once monthly to elected and appointed officials, media representatives, individuals and organizations with an interest in fisheries issues.

Editor's note: The various views and opinions held in the above review are not necessarily shared by the Waterman's Gazette or by MWA staff.