

New England Fishery Management Council 50 WATER STREET | NEWBURYPORT, MASSACHUSETTS 01950 | PHONE 978 465 0492 | FAX 978 465 3116 C. M. "Rip" Cunningham, Jr., *Chairman* | Paul J. Howard, *Executive Director*

MEMORANDUM

SUBJECT:	Goal and Objectives for Groundfish Closed Areas
FROM:	Groundfish Plan Development Team
TO:	Groundfish Oversight Committee
DATE:	October 5, 2012

1. The Groundfish PDT reviewed draft Goals and Objectives for closed areas that were developed by the Closed Area Technical Team (CATT); see the attached memorandum from the CATT. The PDT endorses this list but suggests two additions, shown below in underlined text.

The primary goals of groundfish closed area management are to:

- Enhance groundfish fishery productivity
- Maximize societal net benefits from the groundfish stocks while addressing current management needs

Objectives for the design of groundfish closed area management options:

- 1. Improved spawning protection; <u>including protection of localized spawning contingents or</u> <u>sub-populations of stocks</u>
- 2. Improved protection of critical groundfish habitats
- 3. Improved refuge for critical life history stages
- 4. Improved access to both the use and non-use benefits arising from closed area management across gear types, fisheries, and groups. <u>These benefits may arise from areas designed to address other three groundfish closed area objectives</u>.

2. Rationale for addition to Objective 1: There is evidence in the literature that cod may return to specific spawning locations, and that cod stock structure may include sub-stocks. An example includes the two spawning components that have been identified in the Gulf of Maine. There is also evidence that cod spawning components have already been extirpated off the coast of Maine. Loss of spawning components will result in loss of overall stock productivity and increased vulnerability to perturbation. Protection of individual spawning components may be needed to prevent the extirpation of local sub-stock structure. Individual sub-stocks could be particularly vulnerable to fishing when

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aggregated for spawning. The PDT's suggested addition makes it clear that this should be evaluated when designing areas for spawning protection.

3. Rationale for addition to objective 4: The design of groundfish closed areas may lead to benefits to other fisheries or ocean users. While these benefits should be identified and may be considered by the Council, the PDT's suggested text is intended to make it clear that they are not envisioned as the primary reason for developing closed areas. At this stage, the CATT would design the areas primarily to meet groundfish management objectives.

4. The PDT agrees with the CATT that there are differences between objective 2 and the goals of the habitat management area design objectives. This objective will enable the PDT and CATT to comment on which of the existing or proposed habitat management areas may be particularly valuable form a groundfish productivity perspective. The CATT/PDT may also identify areas that are of particular importance for a certain species or life stage.

Attachment: CATT memo dated September 14, 2012



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MEMORANDUM

DATE:	September 14, 2012
TO:	Groundfish PDT
FROM:	Closed Area Technical Team (CATT)
SUBJECT:	Goals and objectives to identify and evaluate groundfish closed area options.

The Closed Area Technical Team believes it is important to identify and seek consensus on appropriate goals and objectives for closed area management, so that groundfish closed area management alternatives we develop for the Omnibus Amendment will have the intended effect and those alternatives and as well as those in Framework 48 can be evaluated in the proper context. The Team is seeking concurrence from the PDT and Oversight Committee on goals and objectives that we drafted based on CATT and PDT member input.

To the extent that the data allow, these goals and objectives if approved would be used to evaluate various closed area alternatives and identify those that would produce positive benefits for groundfish management.

Although achieving mortality reductions through area management restrictions is no longer a key factor for establishing year round or seasonal closed areas, closed area management could produce other types of useful benefits. The CATT and Groundfish PDT were polled to determine which biological, economic, social, and ecological factors are important within the context of existing and future groundfish management. A summary of the survey data are provided below.

The factors that ranked highest were spawning protection (mean score 4.5), reducing interaction between fishing activity and protected species (3.91) and life stage protection (3.9). Minimizing adverse impact on EFH also ranked high (3.9), but this issue is being addressed elsewhere in the Omnibus Amendment.

Based on the survey results and further discussion, the CATT identified the following potential goals and objectives for closed area management in the current groundfish regulatory environment, i.e. ACL management.

The primary goals of groundfish closed area management are to:

• Enhance groundfish fishery productivity

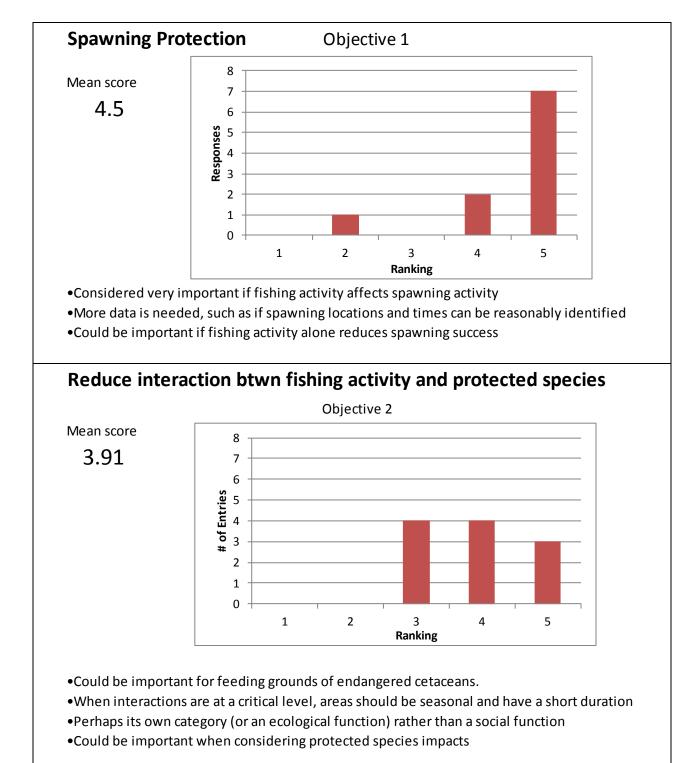
• Maximize societal net benefits from the groundfish stocks while addressing current management needs

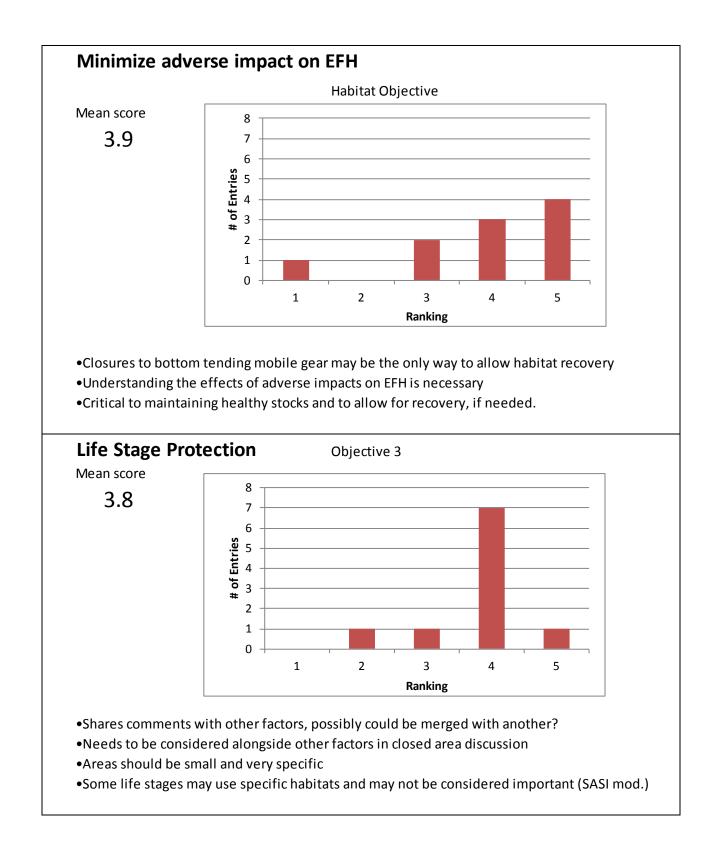
Objectives for the design of groundfish closed area management options:

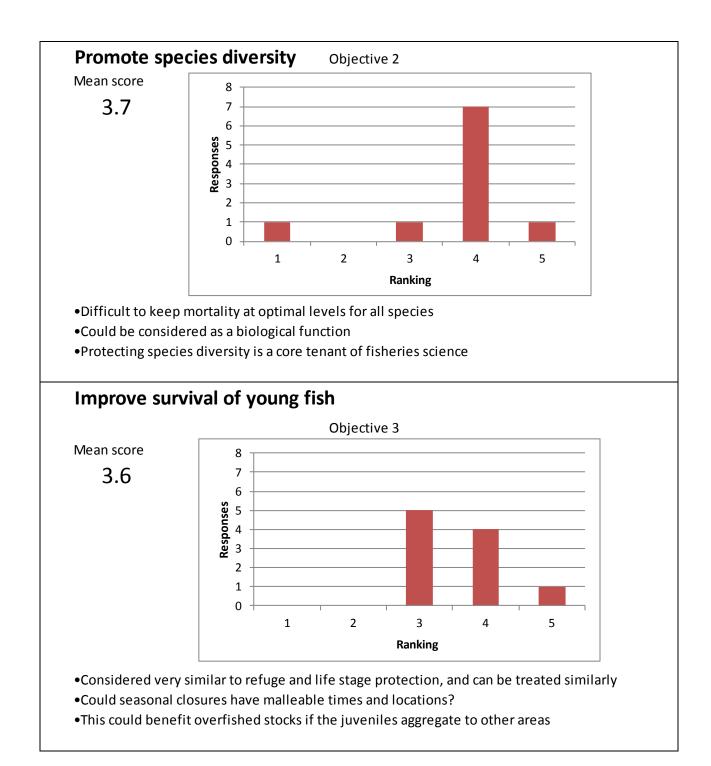
- 5. Improved spawning protection
- 6. Improved protection of critical groundfish habitats
- 7. Improved refuge for critical life history stages
- 8. Improved access to both the use and non-use benefits arising from closed area management across gear types, fisheries, and groups.

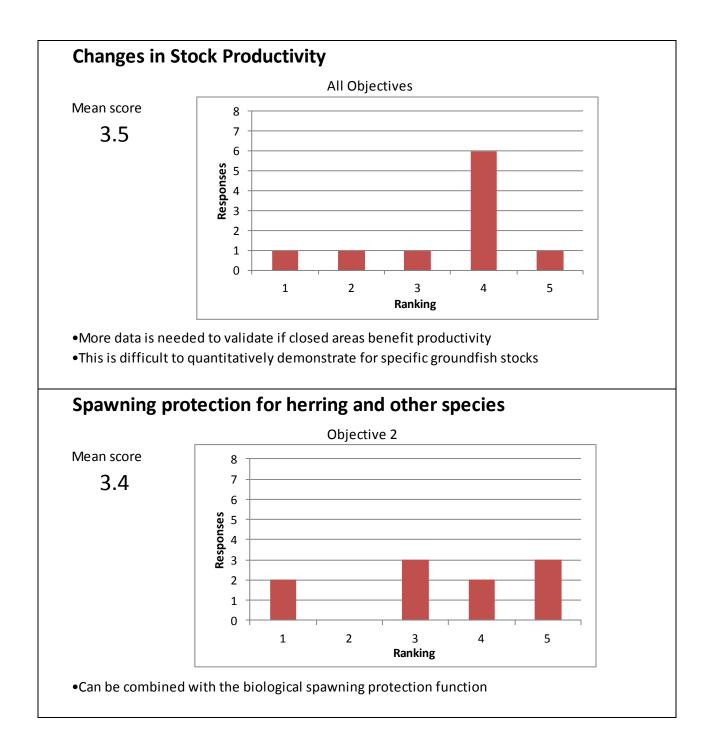
Secondarily, impacts on protected species and other managed species such as monkfish and skates should be considered. While deemed highly important, options to minimize the adverse effects of fishing on EFH are being considered and analyzed elsewhere in the amendment and not in the CATT.

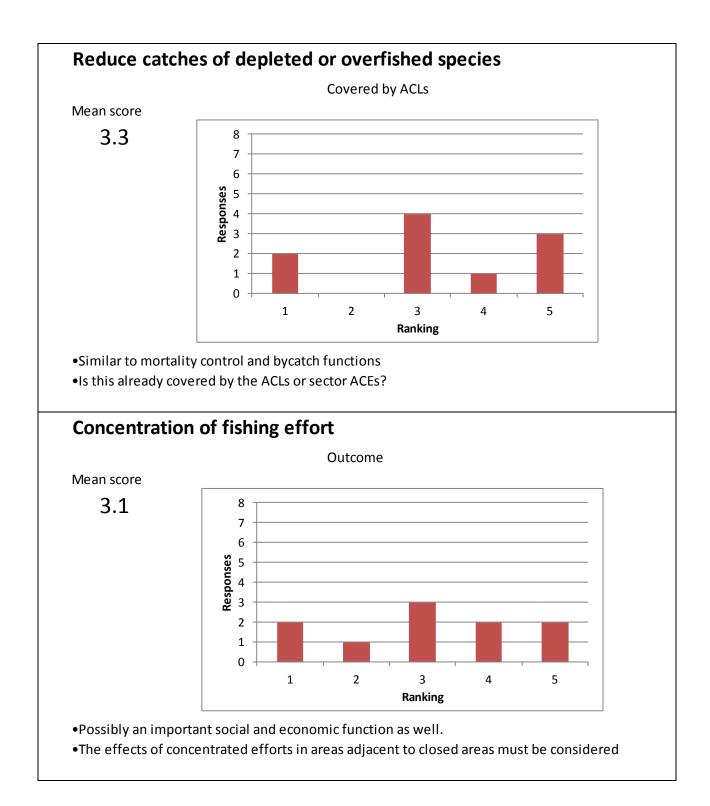
Closed Area Technical Team and Groundfish Plan Development Team Survey on Groundfish Closed Area Functions.

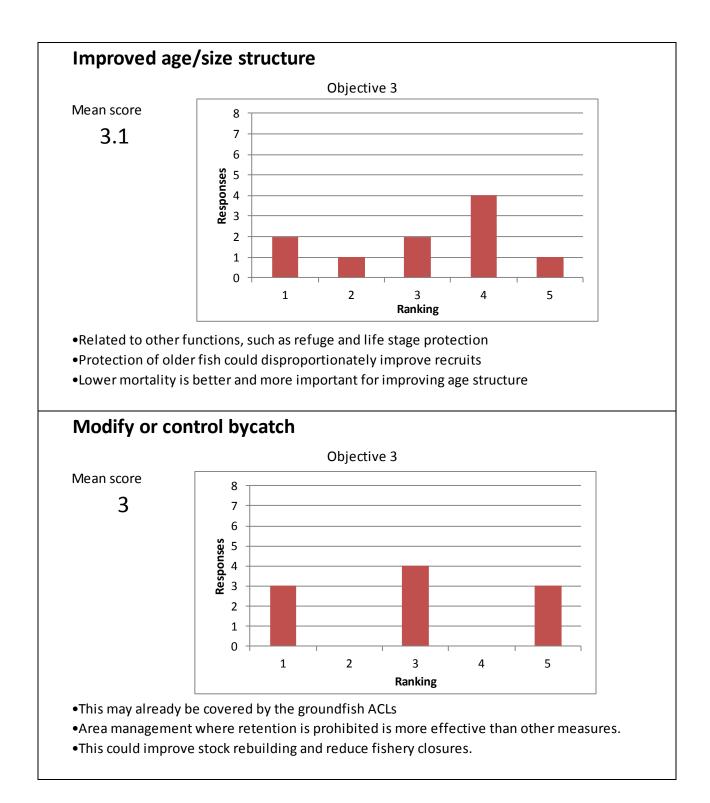


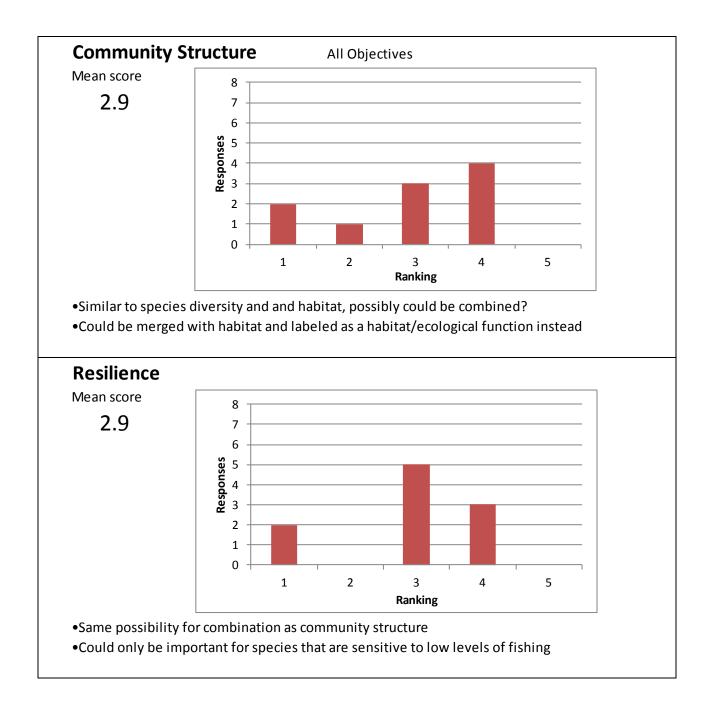


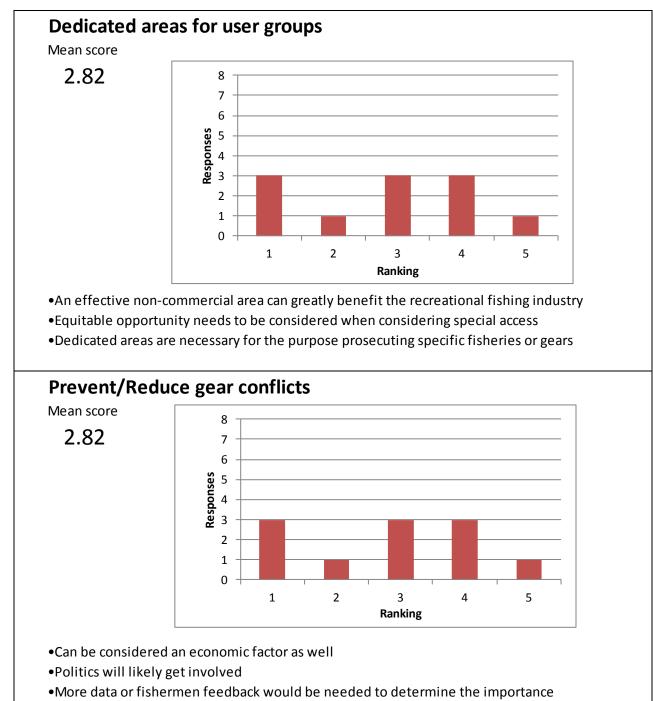




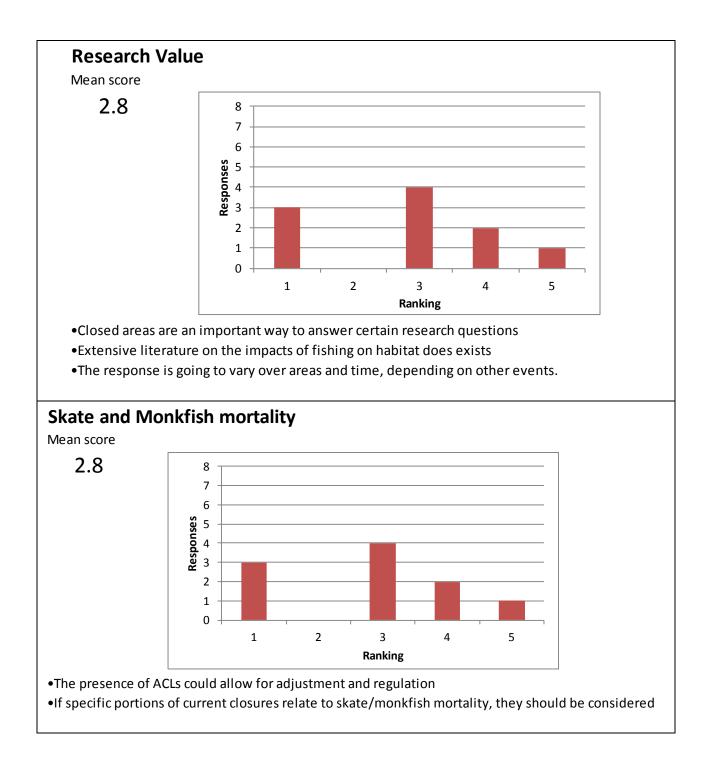


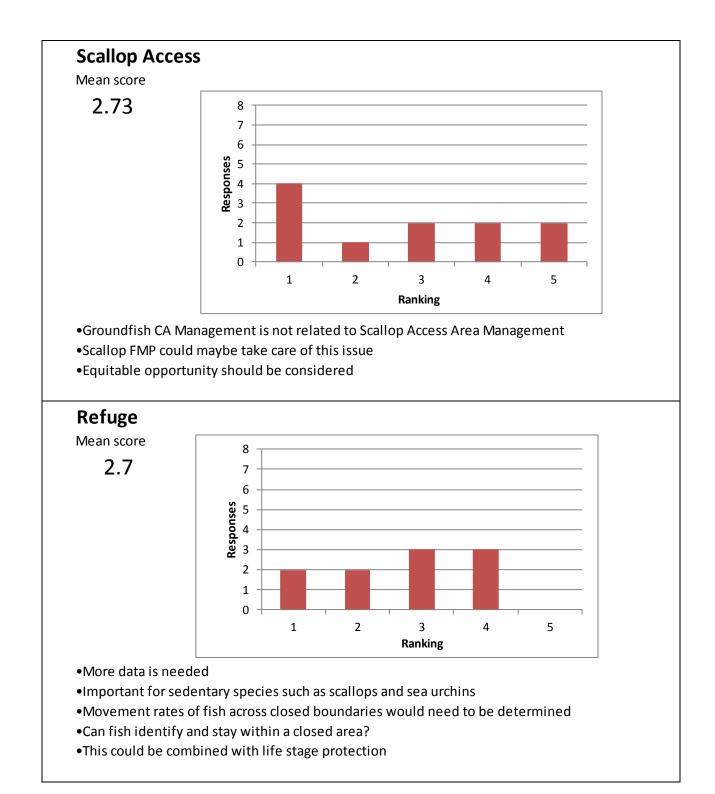


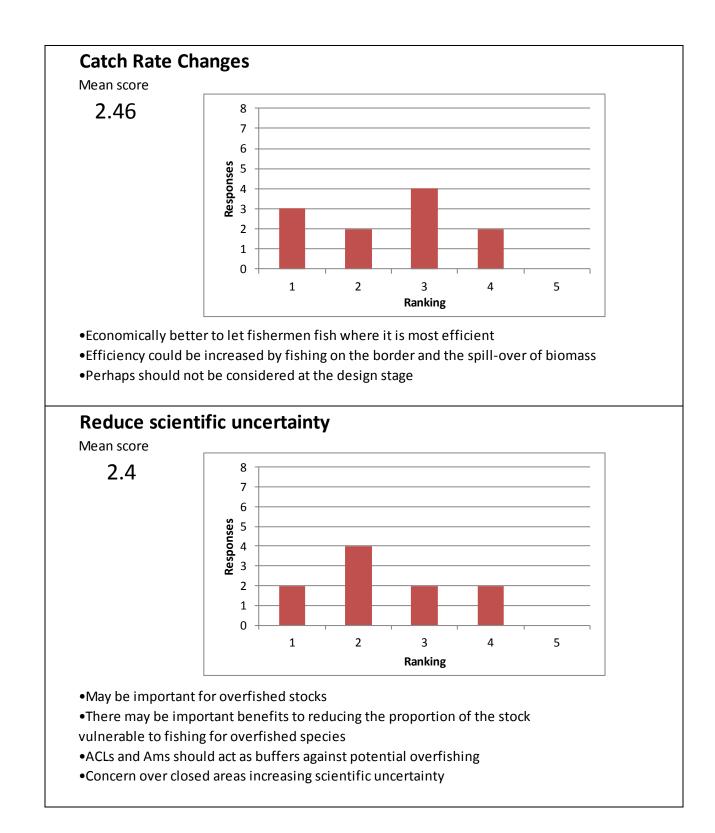


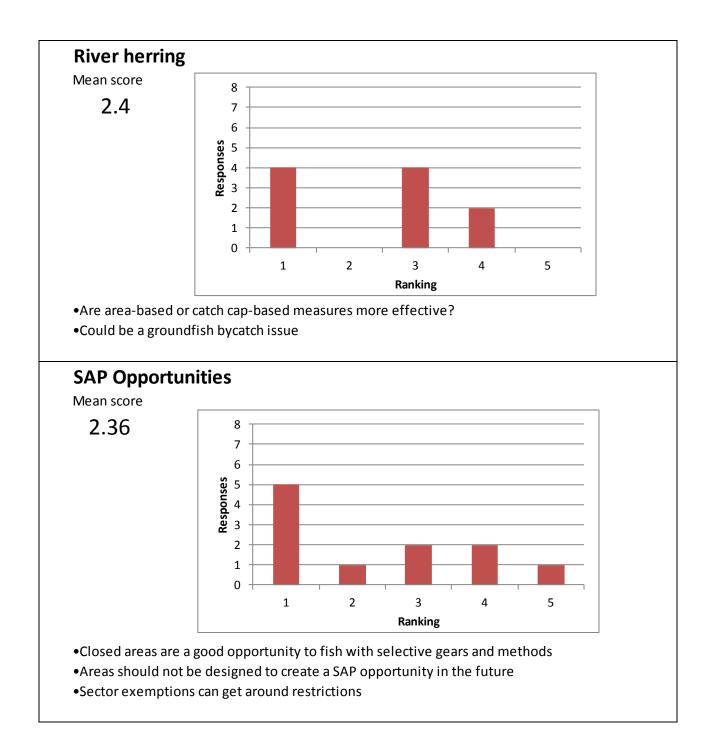


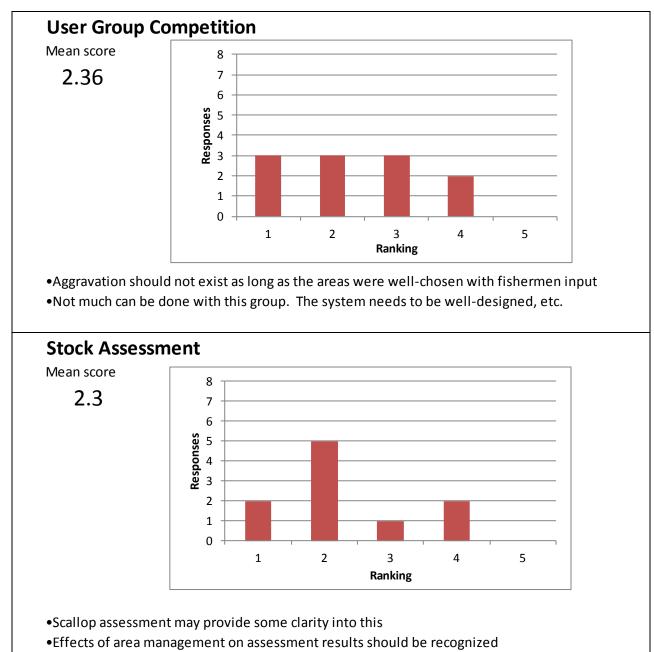
•The benefits of allowing one user group access while denying others must be stated











•This could be a problem if closed areas provided large spatial benefits to stocks

