

Northwest Atlantic Fisheries Organization



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EEC Request for Scientific Advice on Management  
in 1984 of Certain Stocks in Subareas 0 and 1

by

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1. The EEC requests the Scientific Council to provide advice for the following stocks, subject to the agreement of the other coastal state concerned in the case of joint stocks:

- a) Stocks occurring in both the EEC and Canadian fishery zones in Subareas 0 and 1.

Greenland halibut  
Roundnose grenadier  
Northern shrimp

- b) Stocks occurring in the EEC fishery zone in Subarea 1:

Atlantic cod  
Atlantic redfish  
Wolffish (catfish)

2. For the above mentioned stocks, the present state of exploitation should be reviewed and options for management in 1984 given. Where possible, these should be expressed graphically in terms of catch in 1984 and the size of the spawning stock biomass on 1 January 1985 for a range of values of  $F$  which covers at least -50% to +25% of  $F$  in 1981.
3. For cod in Subarea 1, it is requested that catches for each year up to and including 1986 and spawning stock biomasses for each year up to and including 1987 are calculated for maintaining  $F$  at the following levels from 1984 onward:  $F = F_{0.1}$ ,  $F = F_{max}$ , and  $F = F_{1981}$ . All values of  $F$  refer to that on the most heavily exploited age groups. A TAC at the same level as in 1982 may be assumed for 1983.

As the Scientific Council advises that "since the dependency of recruitment upon spawning stock size cannot be ignored, the rebuilding of the spawning stock to a much higher level than at present should form the basis for management", it is asked that the stock and recruitment relationships on which this advice is based should be illustrated and the advice examined in relation to both this relationship and the known dependency of recruitment success on water temperatures at the time of spawning.

The Scientific Council is also asked to examine the possible effects of an increased stock size of cod on that of shrimp in quantitative terms if possible, otherwise qualitatively.

4. Management options for shrimp at East Greenland should also be given in coordination with ICES.

