

Northwest Atlantic



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Denmark (Greenland) Request for Scientific Advice on  
Management of Certain Stocks in 1991

by

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1. Denmark, on behalf of Greenland, requests the Scientific Council of NAFO in advance of the June 1990 Annual Meeting to consider the following stocks occurring in Subarea 1:

- i) Atlantic cod
- ii) Redfish (by species, if possible)
- iii) Wolffish (by species, if possible)
- iv) Any other stock of commercial interest of invertebrates and finfish in Subarea 1 for which data allow a status report

It is also suggested, subject to the concurrence of Canada, that the Scientific Council of NAFO include the following stocks overlapping Subareas 0 and 1 in its considerations:

- i) Greenland halibut
- ii) Roundnose grenadier
- iii) Northern shrimp (*Pandalus borealis*)

Further, in cooperation with ICES, the Scientific Council of NAFO is requested to analyze the following stock in the Denmark Strait and off East Greenland:

- i) Northern shrimp (*Pandalus borealis*)

The Scientific Council of NAFO is requested to provide advice on the status and on the biological basis for management in 1991 and as many years onwards as the data allow for all stocks mentioned above.

2. In the analyses on which management advice will be based, the following should be included:

- a) For cod in Subarea 1 the catch projections should include at the following options:

- i)  $F = F(0.1)$  from 1991 onward
- ii)  $F = F(\text{max})$  from 1991 onward
- iii)  $F$  from 1991 onward equal to that  $F$ -value which for 1990 corresponds to the set TAC for 1990, i.e. 110,000 tons
- iv) Two options both based on a steady catch level from 1991 onwards. One catch level should be 90,000 tons and the other level 110,000 tons.
- v) Same as in iv) but with restriction that  $F$  is not allowed to exceed 0.6 per year.

The development in the expected length distributions particularly the size groups 40-55 cm and above 55 cm should be evaluated.

The catch level for 1990 should be set at the TAC for that year, i.e. 110,000 tons. The Scientific Council should further evaluate whether this catch level is realistic and if not then re-evaluate the above mentioned options i), ii) and iii) based on such catch level for 1990.

- b) The boundary between the East Greenland cod stock and the West Greenland stock should be reconsidered and the Scientific Council invited to comment on the relevance of such a boundary under the present stock conditions.

For Greenland halibut in Subarea 0+1 the relevance and the scientific basis for the stock separation between this stock and the Greenland halibut in Subarea 2 and Div. 3KL should be reconsidered.

For Northern shrimp in Subarea 1 and in the Denmark Strait the effects of by-catch of small finfish (redfish and Greenland halibut) on these stocks should be analyzed if data allow. Further the effect of discards of shrimp should be analyzed.

- 3. The Scientific Council should feel free to report on such other invertebrates and finfish stocks in Subarea 1 and on such other scientifically-based management options for the above mentioned Subarea 1 stocks, as it feels applicable.