

REPORT OF THE JOINT MEETING OF THE WORKING GROUPS ON KRILL AND CEMP

6.1 This meeting was held in Viña del Mar, Chile, 5 to 6 August 1992 and was chaired by Mr Østvedt (Chairman, Scientific Committee) with the Conveners of WG-CEMP and WG-Krill acting as rapporteurs.

6.2 The summary report was introduced by Mr Østvedt, who noted the success of the interactive initiative and highlighted some of the main achievements and proposed actions. The review of the report by the Scientific Committee concentrated on these areas.

KRILL ESCAPEMENT

6.3 The detailed definition and explanation of escapement was welcomed. For ease of reference it was agreed to repeat this definition in the report of the Scientific Committee and to include it in the CCAMLR Glossary of Scientific Terms (Annex 12). It was noted that care must be taken in translation to distinguish escapement in the present context from fishing escapement loss, meaning animals which pass through the meshes of nets. The definition of escapement in the present context is as follows:

In a fisheries management context, escapement is the average level of biomass of the exploited stock for a given level of fishing. Proportional escapement is the ratio of this exploited biomass to the average biomass of the stock before the start of the fishery (pristine biomass).

KRILL/PREDATOR FUNCTIONAL RELATIONSHIPS

6.4 This approach was developed further by WG-CEMP and the Scientific Committee comments can be found at paragraphs 5.56 and 5.57. Possible experimental approaches to evaluate these relationships were also discussed by the joint meeting of WG-Krill and WG-CEMP. The Scientific Committee endorsed the comments of the joint meeting on the longterm nature and careful experimental design required of such studies.

KRILL BIOMASS VERSUS AVAILABILITY TO PREDATORS

6.5 The need to investigate this relationship was recognised.

USE OF PREDATOR DEMAND IN SUBAREA ALLOCATION OF CATCH LIMITS FOR KRILL

6.6 The comments of WG-CEMP that such an approach is not advised at present (Annex 7, paragraph 8.7) were noted and endorsed.

TIMING AND LOCATION OF FISHING

6.7 The value of fine-scale, and especially haul-by-haul data in this context has been consistently endorsed by the Scientific Committee.

OPERATIONAL CHARACTERISTICS OF KRILL FISHING

6.8 It was agreed that the dialogue between fishing operators and scientists has been a most valuable one and should be maintained, particularly in the discussion of approaches to management.

KRILL SURPLUS

6.9 The conclusion of the meeting, that work on this concept should be of low priority was endorsed.

EXPERIMENTAL HARVESTING REGIMES

6.10 The Scientific Committee endorsed the advice that the development of models to evaluate the statistical performance and cost-effectiveness of possible experimental harvesting regimes designed to distinguish between natural variation in predator performance and effects due to fishing is desirable. Members are encouraged to develop appropriate proposals.

INCORPORATION OF CEMP INFORMATION IN MANAGEMENT ADVICE

6.11 This is a crucial element in the development of CEMP. It requires modelling a number of management scenarios using current and historical data. One facet of this could be the investigation of the feasibility of dynamic allocation of krill catch limits in response to changes in measures of predator performance. Members were strongly encouraged to undertake studies of this kind.

PRECAUTIONARY MANAGEMENT MEASURES

6.12 Extensive discussion on this topic is included in the discussion of the WG-CEMP report (Annex 7, paragraphs 6.45 to 6.57).

INFORMATION REQUIRED FROM WG-KRILL

6.13 The Scientific Committee endorsed the recommendations of the Joint Meeting to encourage:

- (i) submission of haul-by-haul data;
- (ii) deployment of scientific observers aboard fishing vessels; and
- (iii) fine-scale reporting of fisheries data from statistical areas other than Area 48.

6.14 The need for updated estimates of krill abundance, for krill abundance surveys covering complete ISRs, for more predator prey surveys using recommended procedures (SC-CAMLR-X, paragraphs 6.13 and 6.14) and for data on rates of krill movement were also endorsed.

COORDINATION

6.15 There was unanimous agreement on the need to continue to coordinate the work of, and particularly the formulation of management measures by, WG-Krill and WG-CEMP through joint meetings. In view of the likely impossibility of holding such a meeting in 1993, it is particularly important to try to arrange a joint meeting for 1994. Regular meetings of the Conveners of all the Working Groups of the Scientific Committee were also highly desirable.