

BUDGET FOR 1994 AND FORECAST BUDGET FOR 1995

16.1 The draft budget is attached as Annex 9.

16.2 Provision is made for the three permanent Working Groups to meet, for a joint meeting of the WG-Krill and WG-CEMP, and for an *ad hoc* workshop on krill flux (paragraphs 2.28 and 15.1).

16.3 Provision is also made for CCAMLR to be represented by the Secretariat at the Vth SCAR Symposium on Antarctic Science and at a SCAR-COMNAP Data Management workshop (paragraphs 12.27 and 12.28), and for the continuation of the acquisition of sea-ice data by the Secretariat. This data acquisition was initiated by WG-CEMP in 1992.

ELECTION OF VICE-CHAIRMEN OF THE SCIENTIFIC COMMITTEE

17.1 In accordance with Rule 8 of the Rules of Procedure of the Scientific Committee there was an election for two Vice-Chairmen. Dr R. Holt (USA) nominated Dr M. Naganobu (Japan) and Dr E. Balguerías (Spain) nominated Dr C. Moreno (Chile) as Vice-Chairmen of the Scientific Committee. In making the nomination, Dr Holt and Dr Balguerías referred to the considerable experience of Dr Naganobu and Dr Moreno in Antarctic marine research, their long association with CCAMLR and dedication to the work of the Scientific Committee.

17.2 Drs Naganobu and Moreno were unanimously elected as Vice-Chairmen of the Scientific Committee for the period from the end of the Twelfth Meeting until the end of the Scientific Committee meeting in 1995.

17.3 The Chairman congratulated the new Vice-Chairmen on their election and expressed a view that, in future, more active involvement of Vice-Chairmen in the work of the Scientific Committee would be desirable. The Scientific Committee fully supported this point of view. The Chairman also paid tribute to the former Vice-Chairmen, Dr Holt and Dr Balguerías and thanked them for their support and valuable contributions to the work of the Scientific Committee during the past two years.

NEXT MEETING OF THE SCIENTIFIC COMMITTEE

18.1 The next meeting of the Scientific Committee will take place in Hobart from 24 to 28 October 1994.

OTHER BUSINESS

19.1 Dr Kim reported that informal discussions during the course of the meeting between eight Members planning cruises to the Antarctic Peninsula region in the 1994/95 season had helped significantly with the planning for these cruises. Suggestions had been made for scientist exchange, coordination of survey areas and periods and the inclusion of land-based research activities together with oceanographic work. Discussion will be continued during the intersessional period by correspondence and an informal meeting is tentatively scheduled to be held in Venice (with SCAR), South Africa (Working Group meetings) or any other convenient venue. The Scientific Committee commended this initiative and encouraged this type of cooperation between Members.

19.2 The Chairman invited ASOC to speak on the question of ozone depletion in the Antarctic.

19.3 ASOC drew attention to the 1993 Antarctic spring ozone hole (SC-CAMLR-XII/BG/26). This hole is the deepest ever recorded, and substantial areas of the Southern Ocean have been exposed to elevated levels of UV-B radiation. ASOC urged Members to address the causes of ozone depletion both domestically and in relevant international forums with the aim of stopping the production and use of ozone-depleting substances.

19.4 ASOC further stated that in the light of evidence that increased UV-B levels may result in a reduction of primary production and may alter the phytoplankton community structure, and of the lack of knowledge of impacts at higher taxonomic levels, it would be appropriate for CCAMLR to:

- ensure that potential UV-B impacts on the marine ecosystem are considered when making decisions concerning catch levels for commercial stocks; and
- encourage Members to expand research into UV-B impacts at the Southern Ocean ecosystem level as well as initiate research into potential effects on fish, birds and marine mammals.

19.5 Whilst the Scientific Committee recognised that direct action in regard to UV-B research was being addressed by other programs, such as SO-GLOBEC, it was considered appropriate that CCAMLR maintain a watching brief concerning ozone depletion considering the potentially serious effects of UV-B radiation.

19.6 However, it was agreed that this should be the concern of Working Groups, which should take note of the possible effects of ozone depletion when considering the development of their advice on management. For instance, information on longterm changes in mortality, phytoplankton

productivity and uncertainty of environmental change should be considered along with other factors in the assessment of potential yields and other advice.

19.7 Dr P. Penhale (USA) drew the attention of the Scientific Committee to a volume she is co-editing on the effects of UV-B radiation on the Antarctic ecosystem which will be published in 1994. Dr Roberston reminded the Scientific Committee of a bibliography on the subject which he had made available at last year's meeting of the Scientific Committee. This bibliography is currently being updated and will be available on request.

ADOPTION OF THE REPORT

20.1 The Report of the Twelfth Meeting of the Scientific Committee was adopted.

CLOSE OF THE MEETING

21.1 In closing the meeting, Dr Kock thanked Members and observers for their excellent cooperation, hard work and good spirit throughout the meeting. He extended his gratitude to the Vice-Chairmen, Conveners of the Working Groups and rapporteurs for their assistance. He congratulated the Secretariat and the interpreters for their never-ending and professional support which helped considerably in making the meeting a success.