

Report of the Group of Specialists on Living Resources of the Southern Oceans**SCOR WG 54
(In Co-Sponsorship with SCAR, IABO and ACMRR)***Kiel Meeting*

The group met in Kiel, FRG, 30 May – 2 June, 1978 at the invitation of Professor G. Hempel. Participants reported on national marine biological/oceanographic investigations in the southern oceans and plans for future work. The group heard a number of review presentations on recent research which had direct relevance to the BIOMASS Programs. In its discussion the group agreed that without ignoring other problems there was an urgent need to address its attention towards the problem of resource evaluation of krill and proposed that, apart from the study of the life history of krill, the following questions should be given priority in the first instance:

- (a) How much krill is there?
- (b) What are the trends and fluctuations in krill abundance?
- (c) What is the population identity of krill?
- (d) What is the swarming behaviour of krill?
- (e) To what extent are krill food limited?
- (f) How are the total populations of krill consumers sub-divided into unit populations?
- (g) How much krill is consumed by each predator species?
- (h) What are the present trends in stocks of consumers?
- (i) What will be the impact of krill harvesting at different levels on the dynamics of the populations of krill consumers?

These questions were discussed at some length by the Group and are included in the report of the Kiel meeting, copies of which are available on request.

The ACMRR Meeting

During the ACMRR meeting held 5–9 June, 1978 in Rome, ACMRR members were informed of the Group's activities and of future plans for BIOMASS as developed at the Kiel meeting. Also, at that meeting consultations regarding nominations for chairmen and members of the Technical Groups and Working Parties (within the organizational structure of BIOMASS) were initiated. These consultations were followed by solicitation of nominees from the four co-sponsors of the Group as well as such organizations as IOC, IWC, etc. A membership list for the Technical Groups and Working Parties is given in Appendix 1.

Soviet and Polish Participation/Contribution to BIOMASS

At the kind invitation of Dr A. Bogdanov, Director, All-Union Research Institute of Marine Fisheries and Oceanography, Moscow, USSR, and of Dr Adam Urbanek (Poland's delegate to SCAR) the Chairman made a two-week trip to Moscow and Warsaw in September 1978 to discuss further the BIOMASS programmes. Highlights of these discussions were given in a separate report. Professor Jan Kaczmarek, secretary of the Polish Academy of Sciences, offered to host a meeting of the Group in Warsaw in September 1979 and Dr Bogdanov offered to host a meeting of the Group in the USSR in late 1980, probably in Leningrad or some small town on the Black Sea.

Future Activities of the Group of Specialists and its specialized Technical Groups and Working Parties

A list of the projected meetings of the Group of Specialists, Technical and Working Parties for the remainder of 1978 and for 1979 is given in Appendix 2.

Financial Need

Based on the several meetings projected for 1979, SCOR is requested to make available the sum of \$10,000 towards the cost of travel and per diem expenses for members of the Technical Groups and Working Parties.

SCOR WG 54 (with SCAR, IABO and ACMRR)

Membership

S.Z. El-Sayed, Convenor

G. Deacon
G. Hempel
J-C. Hureau
R.M. Laws
T. Nemoto
T.G. Lubimova

G.G. Newman
S. Rakusa-Suszczewski
D.B. Siniff
A.P. Tomo
D.J. Tranter
J.A. Gulland (Technical Secretary of ACMRR)

*Technical Groups**Programme Implementation and Coordination*

G. Hempel (FRG), Chairman

A. Tomo (Argentina)
K. Kerry (Australia)
J.P. Bloch (France)
T. Nemoto (Japan)
O.H. Saelen (Norway)
S. Rakusa-Suszczewski (Poland)
O.A. van der Westhuyzen (S. Africa)
R.M. Laws (U.K.)
T.G. Lubimova (U.S.S.R.)
..... (Chile)
..... (New Zealand)
..... (U.S.A.)
..... (IOC Adviser)
S.Z. El-Sayed (ACMRR Adviser)

Methods

D.J. Tranter, Chairman

S. Rakusa-Suszczewski
K. Sherman
[in consultation with
the Working Parties]

Data, Statistics and Resource Evaluation

G.G. Newman, Chairman

D. Siniff
D. Sahrhage
R. Hennemuth
J. Gulland
A. Tomo
R.M. Laws
K. Nasu
H. Jones (IOC/WG/IODE)
R. Gambell (IWC.Sci.Comm.)

*Working Parties**Acoustic Krill Estimation*

O.A. Mathisen, Chairman
I. Everson
E. Marchal
H.U. Thiel
T. Doi
D. Cram
J. Kalinowski
V. Shevtsov
I. Hampton

Krill Biology

J. Mauchline, Chairman
M.A. McWhinnie
T. Pommeranz
T. Antezana
R. Lasker
S. Rakusa-Suszczewski
R. Makarov
Y. Le Gall
T. Nemoto

Fish Biology

D. Sahrhage, Chairman
I. Everson
H. DeWitt
J-C. Hureau
T.G. Lubimova
J. Gulland
T. Hoshiai
J. Popiel

Physical & Chemical Oceanographic Observations

A. de C. Baker, Chairman
G. Deacon
D.J. Tranter
J.M. Edmond
T. Foster
M. Stein
M. Bogdanov
J. Piechura
..... (ISOS)

**Projected Meetings of the Group of Specialists, Technical Groups and
Working Parties (1978/79)**

Name of Group	Dates	Place (Country)
(1) Group of Specialists on Living Resources of the Southern Oceans	September, 1979	Warsaw, Poland
(2) Technical Group: Programme Implementation and Coordination	June, 1979	Argentina
(3) Technical Group: Methods	June, 1979	Argentina
(4) Technical Group: Data Statistics & Resource Evaluation	May/June 1979	U.S.A.
(5) Working Party: Acoustic Krill Estimation	i) December, 1978 ii) late 1979	Lowestoft, UK.
(6) Working Party: Krill Biology	(To be arranged; possibly late 1979)	
(7) Working Party: Fish Biology	February, 1979	Hamburg, FRG.
(8) Working Party: Physical & Chemical Oceanographic Observation	(To work mainly by correspondence no meeting is planned at present)	