

ADVANCES IN STATISTICS, ASSESSMENTS, MODELLING AND SURVEY METHODS

WG-SAM advice

2.1 Dr Constable (WG-SAM Convener) presented the report of WG-SAM (Annex 6), noting that most of the report was referred to WG-EMM and WG-FSA for consideration. The attention of the Scientific Committee was drawn to the following points for consideration (Annex 6, paragraphs 7.1 to 7.5):

- (i) Advice to WG-EMM –
 - (a) standardising or estimating general abundance counts of seals and penguins (Annex 6, paragraphs 3.35 and 3.37);
 - (b) conserving VMEs (Annex 6, paragraphs 4.9 and 4.11 to 4.14).
- (ii) Advice to WG-FSA –
 - (a) ALKs (Annex 6, paragraphs 2.10 and 2.15);
 - (b) tagging data (Annex 6, paragraphs 2.19, 2.22 and 2.24);
 - (c) estimation of stock size of *Dissostichus* spp. in new and exploratory fisheries (Annex 6, paragraphs 2.41 and 2.42);
 - (d) review of the Japanese longline research survey proposal (Annex 6, paragraphs 2.54 and 2.55);
 - (e) use of research hauls in the exploratory fisheries for *Dissostichus* spp. (Annex 6, paragraphs 2.59 to 2.61);
 - (f) estimating biomass using commercial longline data in Divisions 58.4.1 and 58.4.2 (Annex 6, paragraph 2.65);
 - (g) age-based assessments (Annex 6, paragraphs 3.10 to 3.14);
 - (h) length-based assessments (Annex 6, paragraphs 3.23 and 3.29 to 3.31);
 - (i) spatially structured population models (Annex 6, paragraph 4.5);
 - (j) conserving VMEs (Annex 6, paragraphs 4.9 and 4.11 to 4.14);
 - (k) decision rules for target species (Annex 6, paragraphs 4.28 to 4.30).
- (iii) There was no advice specific to WG-IMAF.
- (iv) General advice –
 - (a) model development and validation (Annex 6, paragraphs 5.11 to 5.17);

- (b) standardisation of CPUE for different longline fishing methods (Annex 6, paragraph 2.46).
- (v) Submission of only abstracts is insufficient to undertake adequate reviews of papers and their conclusions and Members are requested to submit papers in full to future meetings (Annex 6, paragraph 7.5).

2.2 Dr Constable thanked the contributions of the members in WG-SAM, indicating that the diversity of participants enabled great progress in the development and review of new methods.

2.3 The Scientific Committee endorsed the report of WG-SAM (Annex 6), including its advice.

2.4 The Scientific Committee thanked Dr Constable for convening WG-SAM and for assisting in developing a flexible approach to the work of the Working Group.

2.5 With respect to the general advice, the Scientific Committee agreed the standardisation of CPUE across different fishing methods will need to be further considered in relation to the krill fishery, established toothfish fisheries and exploratory fisheries.

2.6 The Scientific Committee agreed that abstracts on their own are insufficient for working groups to review scientific work for use by the working groups. It agreed that conveners should use their discretion, according to past practice, on whether a full paper could be submitted after the deadline for papers but before the beginning of the working group meeting. Such discretion would involve whether data became available at a late stage or whether the paper was requested with insufficient time to meet the deadline.

Advice from SG-ASAM

2.7 The Scientific Committee considered the report of SG-ASAM (Annex 8) noting that the report had been considered at both WG-EMM and WG-FSA. The substantive discussion of these working groups is reported in sections 3(i) and 4(ii).

2.8 The Scientific Committee expressed its thanks to the Co-conveners of the SG-ASAM meeting, Drs Watkins and Dr O'Driscoll, and to Italy for hosting the meeting.

2.9 The Scientific Committee noted that the three SG-ASAM invited experts (SC-CAMLR-XXVIII/BG/7) supported CCAMLR's acoustics work and recognised the complexity of the tasks being undertaken. The Scientific Committee thanked the invited experts for their positive input into the deliberations of the subgroup meeting.

2.10 The Scientific Committee discussed the benefits of having the SG-ASAM meeting in conjunction with ICES WGFAST. It noted that half of the SG-ASAM participants, including one of the Co-conveners, would not have been able to attend the subgroup's meeting had they not also been attending ICES WGFAST. The Scientific Committee noted the potential benefits of formalising links between SG-ASAM and ICES WGFAST. It agreed that this

might facilitate greater access to acoustics expertise to assist in CCAMLR's work. The Scientific Committee also noted that the current chair of ICES WGFASST, Dr Kloser, an invited expert at the meeting of SG-ASAM, had offered to assist in facilitating such links.

2.11 Taking account of the discussion of the report of SG-ASAM by WG-EMM and WG-FSA, the Scientific Committee agreed that SG-ASAM should meet in 2010 with the terms of reference as set out in Annex 11.