

Report on the 4th Meeting of the Working Group
on the "Overflow 1973" Expedition

The 4th meeting of the Working Group consisted of two parts: A workshop held at Kiel on September 26 (Day 1) and 27 (Day 2) and a meeting held at Copenhagen on October 1 (Day 3). The following members or their representatives were present (the numbers in brackets denote the days of attendance): Meincke (FRG, chairman, 1,2,3), Crease (UK, 1,2), Dooley for Steele (UK, 3), Hermann (Denmark, 1,2,3), Korotajev (USSR, 3), Krefft (FRG, 3), Kvinge (Norway, 1,2,3), Madelain for Hyacinthe (France, 1,2), Malmberg (Iceland, 1,2,3), Ross (Canada, 1,2), Smed (ICES, Secretary, 1,3), Weidemann (FRG, 1,2,3), Wright for Worthington (USA, 3). The meetings were also attended by the following guests: Becker (FRG, 1,2,3), Coote (Canada, 1,2,3), Dixey (UK, 3), Hansen (Denmark, 1,2,3), Horn (FRG, 2), Koltermann (FRG, 1,2,3), Lenz (FRG, 1), McAndrew (UK, 2,3), Müller (FRG, 1,2,3), Peloquin (USA, 1,2), Puls (FRG, 1,2), Stein (FRG, 2,3), Wegner (FRG, 1,2,3).

1. Report on the status of data evaluation

A detailed report on the status of data evaluation and a presentation of first results (if available) was given by the participants of the meeting who had been working at sea during the Expedition. About 50% of the laboratories have their data ready, others are delayed especially due to problems with data from STD's and current meters. All data are expected to be ready by the end of 1974.

2. Final form of inventory

The final form of the inventory on Overflow data was discussed. It will be published as one volume of the "ICES Data Lists and Inventories" (Council Res.1973/1:12) on the basis of the inventories prepared by each laboratory within the last year. This volume will consist of two sections, the first one being an inventory of time series data from all of the moored instruments, the second part being an inventory of station data for each ship separately. To assure uniformity within the inventory volume, all graphical work will be done at the Institut für Meereskunde, Kiel, and the final typing will be carried out by the Service Hydrographique. This inventory is expected to be ready for printing by the end of February 1975.

3. Discussion on data volumes

It was agreed in 1973 to have data volumes prepared from each vessel (Council Res.1973/1:12). These volumes are to serve as a basis for cooperative studies among the participants in the Overflow Expedition and should furthermore make the data available to any interested worker in the field of overflow investigations. It was agreed that the data volumes should present data as concisely as possible, but that it should be restricted containing only comprehensive first order products (e.g. sections, maps, spectra, etc.). It was appreciated that this would lead to a considerable amount of subjectiveness but this is preferred to the presentation of original data which would result in prohibitively large data reports. If however the individual investigator finds it necessary to document characteristic differences in space and time, which cannot be resolved by sections, maps, spectra etc., it is up to his judgment to include selected original data in an appropriate manner. The restriction of the publication of original data was felt to be severe especially since presently there is no operational scheme for routine exchange of STD and current meter data via the NODC's. In the case of the Overflow expedition however all original data will be available to each investigator by mutual arrangements.

A guide for the final preparation of the data volumes will be circulated. The manuscripts will be suitable for offset printing in A4-format. The data volumes will be published for each ship in the sequence the manuscripts become available to the Service Hydrographique. The last manuscripts were estimated to be ready by November 1975.

4. Future activities

Considerable time was devoted to discussions on cooperative scientific work on the Overflow data.

4.1 Atlas

As a first cooperative step taken by the Working Group in data analysis it was suggested to prepare an atlas containing maps and sections on bottom topography, hydrographic parameters, nutrients, biological parameters, currents and water masses. This matter will be actively pursued by the members of the Working Group parallel to the publication of the data volumes and will be discussed in details during the next meeting.

4.2 Further cooperative studies

On the basis of the data already available cooperative studies were found to be feasible in the fields of (a) tidal streams and tides, (b) internal waves, (c) mass transport estimates, (d) statistics. This cooperation however should be left to mutual arrangements between investigators.

4.3 Circular Letter

In order to disseminate information on the activities within the various laboratories it was decided that the chairman should prepare a circular letter, when required, on the basis of information provided from the participants. It should contain information on

- (a) the status and problems of Overflow data evaluation and analysis
- (b) reports and papers related to Overflow matters
- (c) field work in the Overflow area (since 1973)
- (d) topics of bilateral cooperative studies taken up

4.4 Overflow Contribution Numbers

It was suggested to allocate a number to all manuscripts relating to Overflow (e.g. inventory, data volumes, reports, papers) in the sequence they are produced. The Secretary of the Working Group was asked to assign the numbers on request. They should be noted on the title page as "ICES Overflow 1973 Expedition Contr.No. XX". Two copies of the manuscripts should be made available to the Secretary.

5. Second Workshop

The meeting in Kiel and Copenhagen clearly indicated that most participants were on the verge of getting down to detailed evaluation of the data. In order to speed up the cooperative work relating to this data it was felt highly desirable that a further meeting of the participants should take place well before the next statutory meeting. The Working Group therefore proposed the Recommendation below.

Recommendation

It is recommended

that a second workshop on the "Overflow 1973" Expedition be held in May 1975 for a maximum of 3 days at the Marine Institute, Reykjavik (Iceland), and that the Secretary of the Working Group takes part in it.