

SCOR WG 57 COASTAL AND ESTUARINE REGIMES

Report of meetings in Hamburg and Tallinn 28 August – 6 September 1978

Members were invited to meet in Tallinn, Estonia 4 – 6 September 1978. Because several members could not go to Tallinn and since we had planned to be in Hamburg during the preceeding week, a preliminary meeting was held in Hamburg.

Present in Hamburg and Tallinn were the following:

J.B. Matthews (USA), Chairman, N.S. Heaps (U.K.), J. Imberger (Australia), A. Aitsam (USSR), H. Gade (Norway), C.N.K. Mooers (USA), H. Ferguson (Netherlands). Also in Hamburg were J.J. Voogt (Netherlands) and W. Hensen (FRG).

The group thanked Professors J. Sundermann, W. Hansen and J. Imberger for the arrangements and hospitality in Hamburg and Academician Upik and Professor Aitsam in Tallinn.

The group's first priority was to define some specific realizable goal or goals consistent with its terms of reference as directed by the SCOR Executive (SCOR Proceedings Vol. 14, p. 15, 1978). To accomplish this task the group reviewed its charge in the light of accomplishments to date. Terms of reference (SCOR Proceedings Vol. 12, p. 60, 1978) are as follows: To promote the coordination of the physical aspects of research on estuaries, coastal areas and shelf seas. In particular, special efforts should be made: 1. to encourage liason between physical oceanographers and those studying sediment transport phenomenon and 2. to relate numerical models with observational programs.

To date the group has

- (a) integrated the numerical modelling sub-group with the working group.
- (b) co-sponsored the meeting 'Numerical Modelling of Estuarine Physics' in Hamburg 24–6 August 1978.
- (c) co-sponsored the 16th International Conference on Coastal Engineering in Hamburg August 27 – September 3 1978.
- (d) suggested a Joint Oceanographic Assembly dealing with coastal and estuarine topics on an interdisciplinary basis.
- (e) planned a symposium on coastal and estuarine regimes, sea breeze and great lakes problems for the IUGG General Assembly 2 – 15 December 1979.

The working group felt that the sponsorship of the meetings in Hamburg had gone a long way toward filling our goals. The symposium on modelling addressed numerical models and their procedures and was directly in accord with objective number 2. We are indebted to Professor Sundermann for suggesting and organizing the conference. The ICCE meeting covered both objectives. However the group felt that without more assistance from sediment dynamicists it was not able to make further progress with special objective number 1. It was agreed to draw SCOR attention to this and ask advice.

Details of the symposium number 4 for the IUGG meeting in Canberra 2-15 December 1979 were discussed. There was difficulty in fitting speakers on all the topics into the time available. The first session will be devoted to sea breeze papers, the second to great lakes problems and the remaining sessions are to be divided between coastal and shelf seas and estuaries.

A major part of the group's discussion centered around the best way to approach a state-of-the-art review of our subject. After considerable discussion over several sessions, a list of topics and possible authors was generated. It was decided to write to the authors asking for an early expression of interest so that a report could be included for submission to the SCOR Executive.

Clearly this is a major work and will require support from our sponsors. It was felt that funding support should be requested through SCOR for the secretarial work and for holding a pre-publication workshop. Equipment and personnel capable of producing camera-ready copy appeared to be readily available only in the U.S.A. Drs Matthews and Mooers volunteered to supply such services if funding can be found. The chairman is exploring this possibility via SCOR.

Finally a draft letter for introducing the proposed volume to prospective authors was drawn up and approved. We are actively seeking comments and suggestions on our proposed work and schedule. Correspondence should be addressed to the Chairman, Dr J.B. Matthews, Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701.

The group also has tentatively agreed, following the success of the 16th ICCE conference, to co-sponsor the 17th ICCE meeting to be held in Sydney, Australia 23 February - 9 March 1980. Although it was regretted that we could not bring the IUGG and ICCE meetings closer together, it was the opinion of the group that no conflict would ensue by sponsoring both meetings. There is only a small overlap and the sponsorship of one meeting would cause no noticeable effect on the other.

The group also wished attention to be drawn to two IAHR symposia which it is not sponsoring.

- 1) Symposium on stratified flow to be held in Trondheim, Norway 26 - 9 June 1980. Sub-topics are a) 'Vertical transport in lakes, reservoirs and estuaries' and b) 'Blocking and mean flow characteristics of stratified flow'. The convenor is Dr Torkild Carstens of the Technical University, Trondheim.
- 2) Symposium on Numerical Models to be held at Berkely, California, USA in December 1980. The meeting is to be an in-depth analysis of numerical model programs in which evaluation of methods of computation will take place. The convenor is Professor Hugo Fischer.