

SCOR WORKING GROUP 49  
MATHEMATICAL MODELLING OF OCEANIC PROCESSES  
Report of Meeting, Grenoble, France, 30 September 1975

Present: Professor K. Hasselmann, Dr A. Gill, Dr K. Bryan.  
Apologies for absence: Professor K. Yoshida, Professor C. Garrett,  
Professor A. Sarkisyan, Dr S. Godfrey

An open meeting was held attended by members of WG 49 and more than 20 other members of IAPSO interested in modelling. Matters under discussion were:

1. An initiative by WG 49 to publish an informal newsletter to exchange information on ocean models. The newsletter would contain extended abstracts of work in progress. It would provide information on modelling algorithms which investigators are willing to share with others. There would be a special bias toward modelling the dynamics of the equatorial region. The goal of this newsletter is to speed up the flow of ideas between mathematical modellers in physical oceanography in different countries, and avoid redundant development work on numerical models.

Adrian Gill has agreed to lead this undertaking if funding can be found to cover the necessary office expenses.

2. SCOR WG 47, responsible for planning an oceanographic experiment for FGGE (First GARP Global Experiment) has requested WG 49 to send some members familiar with equatorial dynamics to a planning meeting in Honolulu to be held in November or December of 1975. It is agreed that at least one member of WG 49 (Gill, Godfrey, Yoshida) should attend.

3. Brian Mathews outlined the plans to form an IAPSO group on the problems of coastal and estuarine modelling. This was followed by a general discussion of the possible overlap with WG 49, and to what degree it was possible to coordinate or combine the two groups. Although there were advantages in a combined group, it was felt that the large amount of activity in coastal modelling was sufficiently great to more than justify a separate group, permitting WG 49 to concentrate on large-scale modelling of the open ocean. (At its plenary session, IAPSO, set up a new group with Brian Mathews as chairman.)

4. It was agreed that WG 49 can play a useful role in encouraging the intercomparison of different ocean models. One dimensional models of the ocean's mixed layer require only a small amount of computation, but are essential elements for larger scale air-sea interaction models.