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## **A Symposium on Wave Breaking, Turbulent Mixing and Radio Probing of the Ocean Surface**

is to be held at Tohoku University, Faculty of Science, Sendai, Japan, 19–25 July 1984. The aims include a review and presentation of new research results in the field of dynamics and satellite measurement of the ocean surface, and the related upper ocean processes. This symposium is intended to cover similar topics, and serve as a sequel to the IUCRM Symposium on Wave Dynamics and Radio Probing of the Ocean Surface held in Miami Beach in May 1981, but this time the emphasis is placed on the study of the upper boundary layer of the ocean in the context of its role in climatic changes, as one of the joint activities of the Committee on Climatic Changes and the Ocean (CCCO) and the Joint Scientific Committee (JSC) for the WCRP.

Topics to be covered include: (1) ocean waves – their dynamics, nonlinear waves, especially wave breaking, structure of the ocean surface; (2) radio probing of the ocean surface – microwave scatterometry, radiometry, altimetry, SAR/SLAR, 2-frequency radar, physical processes pertaining to electromagnetic scattering at the sea surface; (3) turbulent mixing in the surface layer of the ocean – physics of the ocean mixed layer, response of the ocean to atmospheric disturbances, upper ocean variability. These items include basic work, measurements and application, e.g. near-shore processes, climate dynamics and modelling. Two days will be devoted to each of the three topics. The proceedings of the meeting will subsequently be published by an appropriate publisher.

The Organizing Committee at Tohoku University includes Y. Toba (Chairman), G. Takeda (Dean of Faculty), W. Brutsaert, H. Kamiyama, J. Kondo, H. Oya, N. Shuto, M. Tanaka; and the Advisory Board H. Mitsuyasu (Chairman), T. Asai, M. Coantic, F. W. Dobson, Y. Furuhashi, K. Hasselmann, N. Iwata, I. S. F. Jones, M. S. Longuet-Higgins, A. S. Monin, O. M. Phillips, R. W. Stewart, Y. Sugimori, T. Teramoto, G. R. Valenzuela and J. D. Woods. The Organizing Committee at Tohoku University and the Advisory Board comprise the Program Committee.

Papers are called for on any of the topics listed above. Abstracts of about one page should be sent by 1 November 1983 to Professor Y. Toba, Department of Geophysics, Faculty of Science, Tohoku University, Sendai, 980 Japan. The Program Committee reserves the right to accept or reject contributions and to select those for oral presentation or for poster sessions. Completed manuscripts will be refereed prior to publication.

A joint CCCO–JSC Workshop on Modelling the Upper Ocean Boundary Layer for WCRP Objectives will be held on 26 and 27 July 1984. Some financial support may be available to assist in the travel of young US scientists who wish to participate. Requests for this support should be sent to Professor O. M. Phillips, Department of Earth and Planetary Sciences, The Johns Hopkins University, Baltimore, Maryland 21218, together with a c.v. and paper abstract, also by 1 November 1983.