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Introduction

The lecture “Sea waves” consists of two parts, which are independent. The basic information about sea waves is given in Part I. Part II deals with the description of some elements of wave modeling and the most important aspects of the operational numerical wave models. Practical applications of the wave models VAGBUL, WAM and WAWEWATCH III (WW3) and operational aspects of their numerical implementation for the Black Sea area at NIMH-BAS are discussed in a special module in Part II, where the author shares with you her experience with wave modelling. If you are familiar with terms such as wind waves, swell, wave energy, wave spectrum, significant wave height, group and phase wave speed, deep and shallow water and with processes such as wind wave generation and the formation of the fully developed sea, you can skip Part I. A glossary of variables will help you find the meaning of an unknown term in no time. This lecture contains information from many books, references and web sites. The aim for this is to provide you with the best explanations of some terms and processes concerning sea waves. For more details, please see the particular module References.

Structure of the lecture on the web site:

- Part I

- Part II

- Glossary of variables, symbols and acronyms

- References