

## MARUM / GLOMAR Basic Skills and Methods Course:

### Introduction to MATLAB

Dr. Marius Becker

*MARUM – Center for Marine Environmental Sciences*

11 – 12 (13) May 2015, MARUM Bremen

#### Objectives

MATLAB is a flexible and easy programming language, which is widely used to process numerical data. MATLAB is comparatively well documented and supported by a large group of users. Syntax is shared with some other languages, e.g., *Octave* and *Scilab*, which are both free to use.

The aim of this course is to provide basic knowledge of MATLAB programming. Experience with other programming languages is not required. With little effort you will be able to import and process data, and to produce individual plots from your results.

#### Topics

Programming: syntax, variables, data types, scripts, functions

Data: import, storage, export

Plotting: object hierarchy, handles, 3D

Help: help pages, FEX, books

Application: it has been good practice to choose programming examples according to the actual work of participants at some stage during the course. Topics were statistics, interpolation, time series analysis, etc. However, in this course the focus is on the technical steps around the mathematical problems.

#### **Please note:**

*Participants who would like to **bring their own laptops** may do so but are responsible to make sure that the software is running properly by the beginning of the course.*

*During the course, support can only be given for laptops provided by GLOMAR.*

*The main operating system during the course will be Windows.*

#### Target group

Beginners

#### Location and time

MARUM, University of Bremen, Leobener Str., 28359 Bremen, Germany, Room 2070

09.00 – 17.00 hrs.

## Registration

To register for this course, please fill in the [registration form](#).

*Please note that your registration will be binding.*

The registration deadline for this course is **7 May 2015**.

Any enquiries regarding the course should be addressed to [glomar-courses@marum.de](mailto:glomar-courses@marum.de).