

MARUM / GLOMAR Basic Knowledge Course

Advanced Stratigraphic Methods

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MARUM – Center for Marine Environmental Sciences

16 – 18 March 2016, MARUM Bremen

Objectives

This course will introduce to stratigraphic methods with a focus on radiometric dating and orbital tuning. It will offer exercises on how to apply the techniques, and will provide more sophisticated approaches how to handle dating uncertainties.

Programme

Wednesday, 16 March 2016

09:00-09:15 Introduction (T. Bickert)
09:15-10:30 Radiometric dating - principles (Dana Pittauer)
11:00-12:30 Pb-210 sediment chronology, exercise
13:30-15:00 C14 dating (Gesine Mollenhauer)
15:30-17:00 C14 exercise

Thursday, 17 March 2016

09:00-10:30 Calibration of a single radiocarbon date with R (Stefan Mulitza)
11:00-12:30 Assessing downcore age/proxy uncertainty with Monte Carlo Resampling
13:30-15:00 Bayesian age-depth modelling with BACON
15:30-17:00 continued

Friday, 18 March 2016

09:00-10:30 Orbital tuning - principles (Thomas Westerhold)
11:00-12:30 exercise orbital tuning
13:30-15:00 combined exercise tuning - magnetostratigraphy
15:30-17:00 continued

Target group

People working with age models

Location and time

MARUM, University of Bremen, Leobener Str., 28359 Bremen, Germany, Room 2060

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 **8 March 2016**.

Any enquiries regarding the course should be addressed to glomar-courses@marum.de.