
Early Career Researcher Support Programme

Specific Knowledge Course

Seismic Facies Analysis and Sequence Stratigraphy in Carbonates

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University of Miami

<http://www.cslmiami.info/about/bio?id=4>

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Objectives

The aim of this course is to provide the participants with the principles and workflow of interpretation of seismic data in carbonates. In particular, the participants will

- (a) Learn to relate seismic facies to lithologic facies in carbonates for a robust interpretation of carbonate sedimentary systems from seismic data, and
- (b) Perform a seismic sequence stratigraphic analysis in carbonates.

Topics

1. Carbonate depositional systems
 - General and unique aspects of carbonates
 - Introduction to the morphology of carbonate systems
2. Introduction seismic facies analysis of carbonates
 - Terminology of seismic character, reflection termination and geometry (with exercise)
 - Illustration of common seismic facies in carbonates (with exercise)
 - Unique Aspects of Carbonates on seismic data
3. Seismic Attributes in Carbonates
 - What Are Seismic Attributes?
 - 3-D seismic volume attribute analysis
 - Data Conditioning, Volume Attributes
 - Examples
4. Introduction to Sequence Stratigraphy
 - Sea level and deposition
 - The recognition and types of unconformities in carbonates
5. Carbonate Sequence Stratigraphy
 - Sequence stratigraphic analysis in a pure carbonate system

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Location and Time

MARUM, University of Bremen, Leobener Str. 8, 28359 Bremen, Germany
MARUM I (main) building, room 2060

09.00 – 17.00 hrs.

Registration

To register for this course, please visit the course web page: <https://www.marum.de/en/education-career/2019-09-18.html>

Please note that your registration will be binding.

The registration deadline for this course is **10 September 2019**.

Any enquiries regarding the course should be addressed to early-career@marum.de.