

KARST GEOMETRIES AND INSIGHT INTO RESERVOIR MODELING

**FIELD TRIP
(3 DAYS)**

Course Description

The outcrops of the Apricena Quarrying District are crosscutting the paleokarst surface and system, allowing an in-depth 3D view, coupled with a detailed vertical and horizontal zonation, of the karst features.

These outcrops are well known as an analogue of the Rospo Mare oil field, located in the Adriatic Offshore, hosting heavy oil in a karsted reservoir.

The main objectives of the field trip are:

1. recognize the main features associated to karst/dissolution processes
2. understand the 3D distribution of karst related geometries
3. understand the relationship between facies, fracturing and karst features
4. evaluate the impact at the reservoir scale of the karst system in the fluid circulation
5. distinguish the reservoir zones based on the characteristics of the karst features
6. reconstruct a well constrained 3D model of the karst system, highlighting the 3D spatial variability of the different features associated to the karst system
7. reflect on the best ways to build a static model of similar reservoirs and propose ways to upscale to dynamic models.

Itinerary

Day 1

The Apricena quarry district where a well-developed karst system can be observed in 3D

Day 2

The multi stage paleokarst system in Apricena and understanding on how to model it. Gargano karst system and control of the fault and fracture network

Day 3

The karst system in the Apulian Carbonates of the Murge area: large scale vs. small scale karst geometries

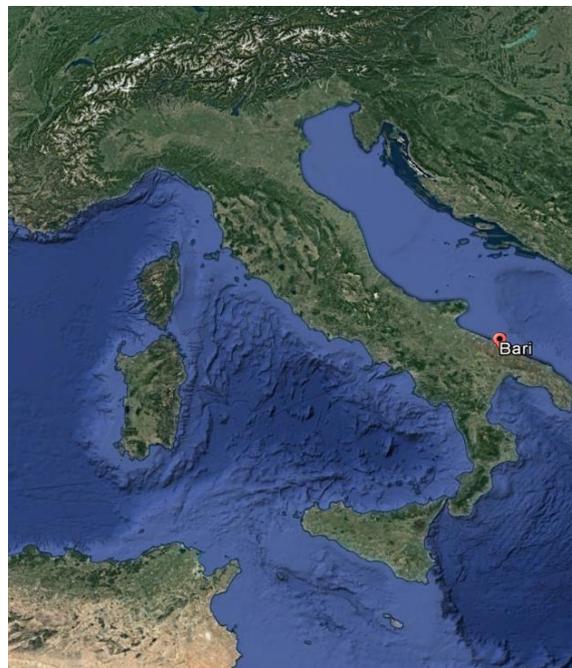
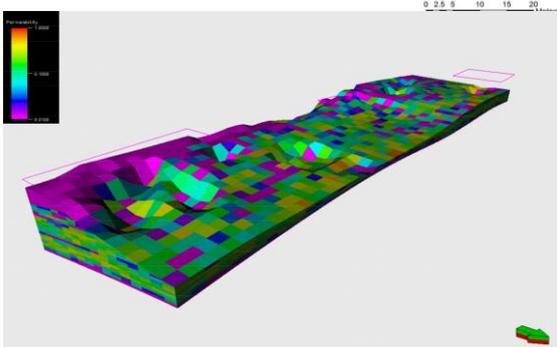
Participants

The course is designed for petroleum and production geologists, geomodellers, reservoir engineers and geophysicists working for the appraisal and development of reservoirs with karst. Ideally, the components of a subsurface team would greatly benefit from participating together.

The minimum number of participants to run the course is 5, while the maximum number is 15.

Location

The training course will be run in Southern Italy with start and end at Bari international airport. The course is run with a minimum 5 participants.



for more information
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