

3 Pre - Pleistocene slope, shallow-marine and continental deposits of eastern central Italy wedge-top basin: a record of sea-level changes and mountain building

Excursion Leaders: C. Di Celma (Univ. Camerino), A. Artoni (Univ. Parma), D. Jablonska (Univ. Camerino), M. Malavolta (Univ. Camerino), E. Mammoliti (Univ. Camerino)

Proposed Excursion Dates: July 10th to 12th

Draft Itinerary: Rome (starts July 10th in the morning) - Ascoli Piceno - Castignano - Ripatransone - Pedaso- Rome (end July 12th in the evening)

Definitive cost per head: 300 € (insurance not included)

Minimum number of participants: 10

Maximum number of participants: 16

Accommodation arrangements: Hotel

Proposer Contact Details:

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Description

The central portion of the Periadriatic basin is a N-S oriented foreland basin system associated to the Central Apennine Outer Orogenic Wedge. This system stretches along the Marche and Abruzzi regions and is an excellent example of an evolving mountain chain and associated deep-marine to fluvial-alluvial foredeep and wedge-top basin system. This three-days trip has been designed to provide an overview of the stratigraphic architecture and evolutionary steps of the basin by integrating surface and subsurface datasets. It affords a fine west to east transect through the Pleistocene basin fill in southern Marche, where exposures allow a close examination of sedimentary facies and architecture of depositional systems. The basin fill succession includes coarse-grained submarine canyon fills deeply incised into slope mudstones, mixed gravel and sand beach deposits and alternating gravel and silt-clay bodies interpreted as fluvial-channel and floodplain deposits, respectively. The analysis of facies architecture and discontinuity surfaces will allow the attendees to understand the relative role of climate, sediment supply, and thrust front propagation inside the foreland basins system as several factors controlling the stratigraphic record.

Additional info: Some of the stops will involve panoramic views, some others include a short walk along easy mountain paths. In this area July may be warm and pleasant with average temperatures approximately between 25 to 28 degrees Celsius; however, during this period the thermometer can reach 33–36 degrees Celsius and it's not unusual to get occasional summer rainstorms. Suitable field clothing and sturdy footwear, such as jumpers, wind-jackets, heavy socks, waterproof trekking boots, long trousers and sunhat are strongly recommended. Accommodation is planned in hotels in the Ascoli Piceno area.

