



Università  
degli Studi  
di Ferrara



# Ecologia Preistorica

Prof. Marco Peresani

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Lezione 12 – Il Carsismo





The entrance to the Spluga della Preta, which probably opened during the earthquake of Verona in 1117, and a bronze panel of the door of the church of San Zeno in Verona. It is possible to recognize the devil throwing people into the cavity of hell, the entrance of which seems to be inspired by a karstic well (Photo: U. Sauro).

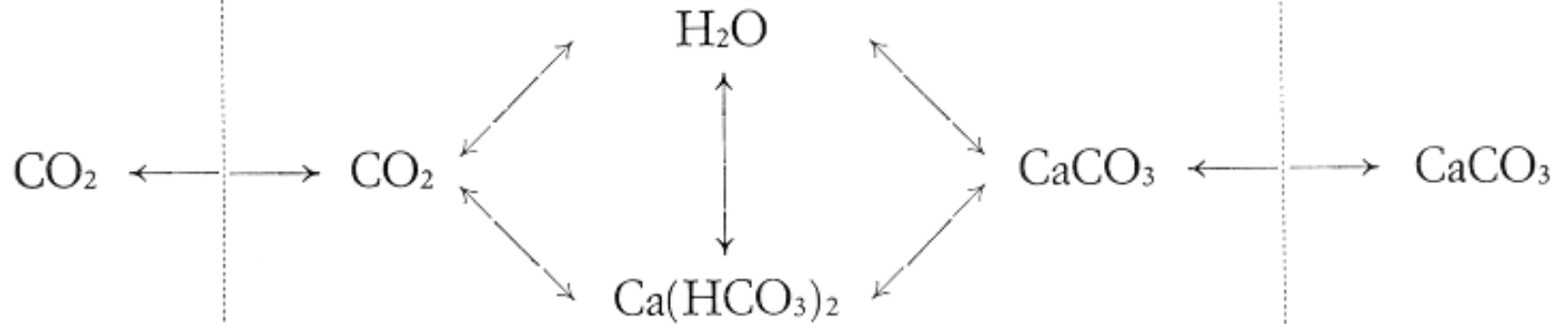


The Ponte di Veja is the entrance to a great cavern the vault of which is partially collapsed. The painter Andrea Mantegna has portrayed it in fantastic scenery in the Camera degli Sposi of the Palazzo Ducale in Mantua

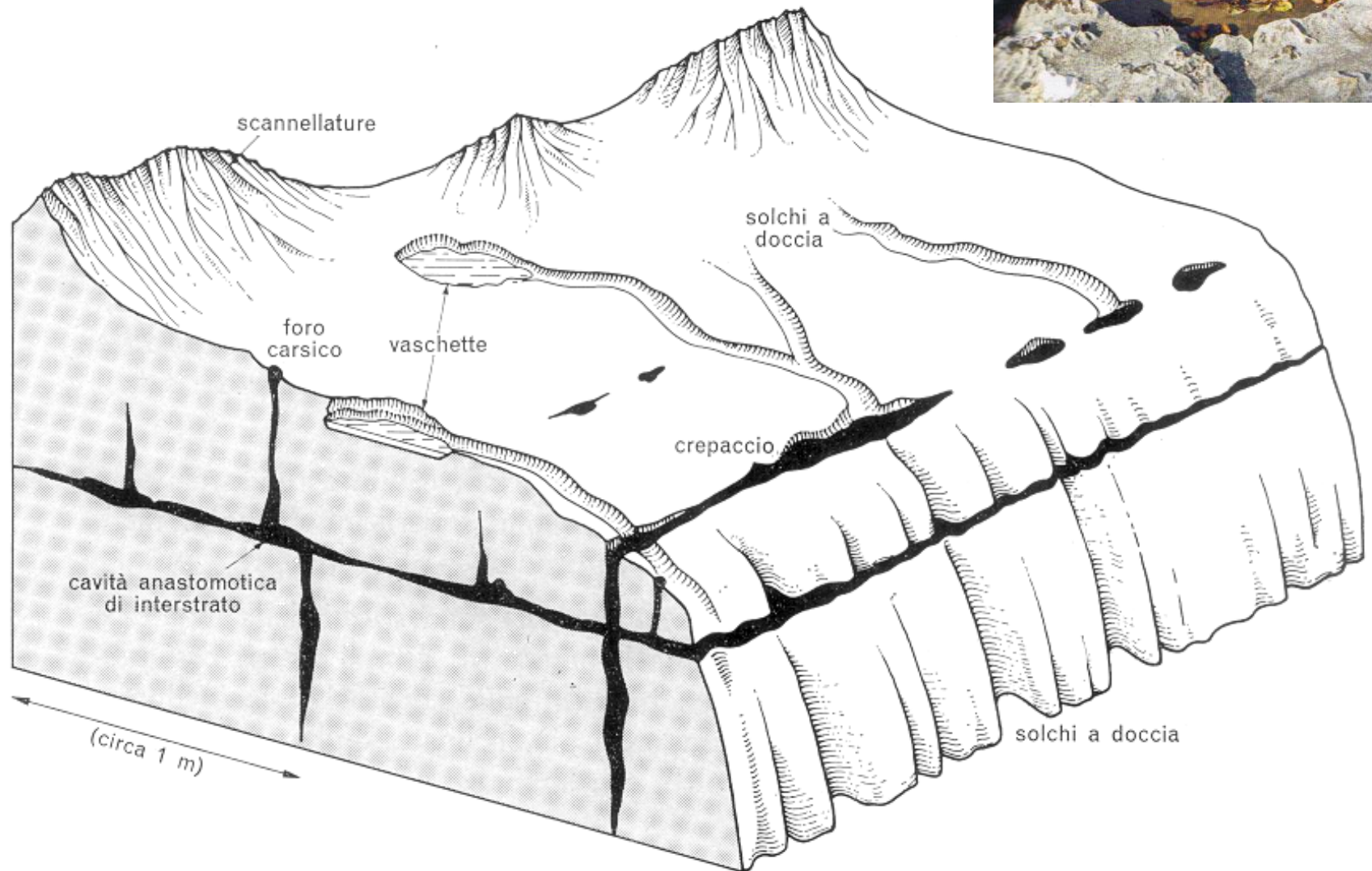
ARIA

SOLUZIONE ACQUOSA

ROCCIA

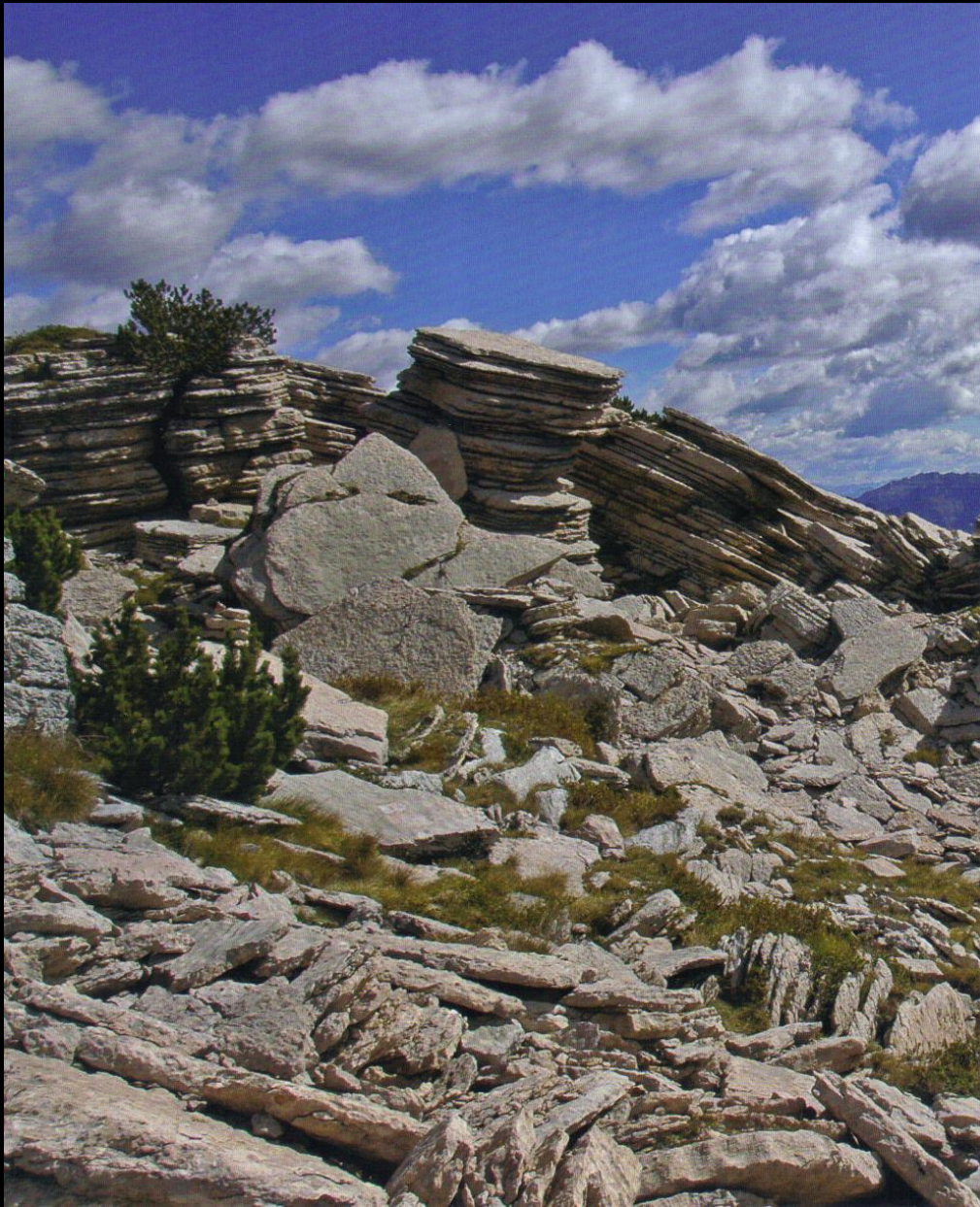




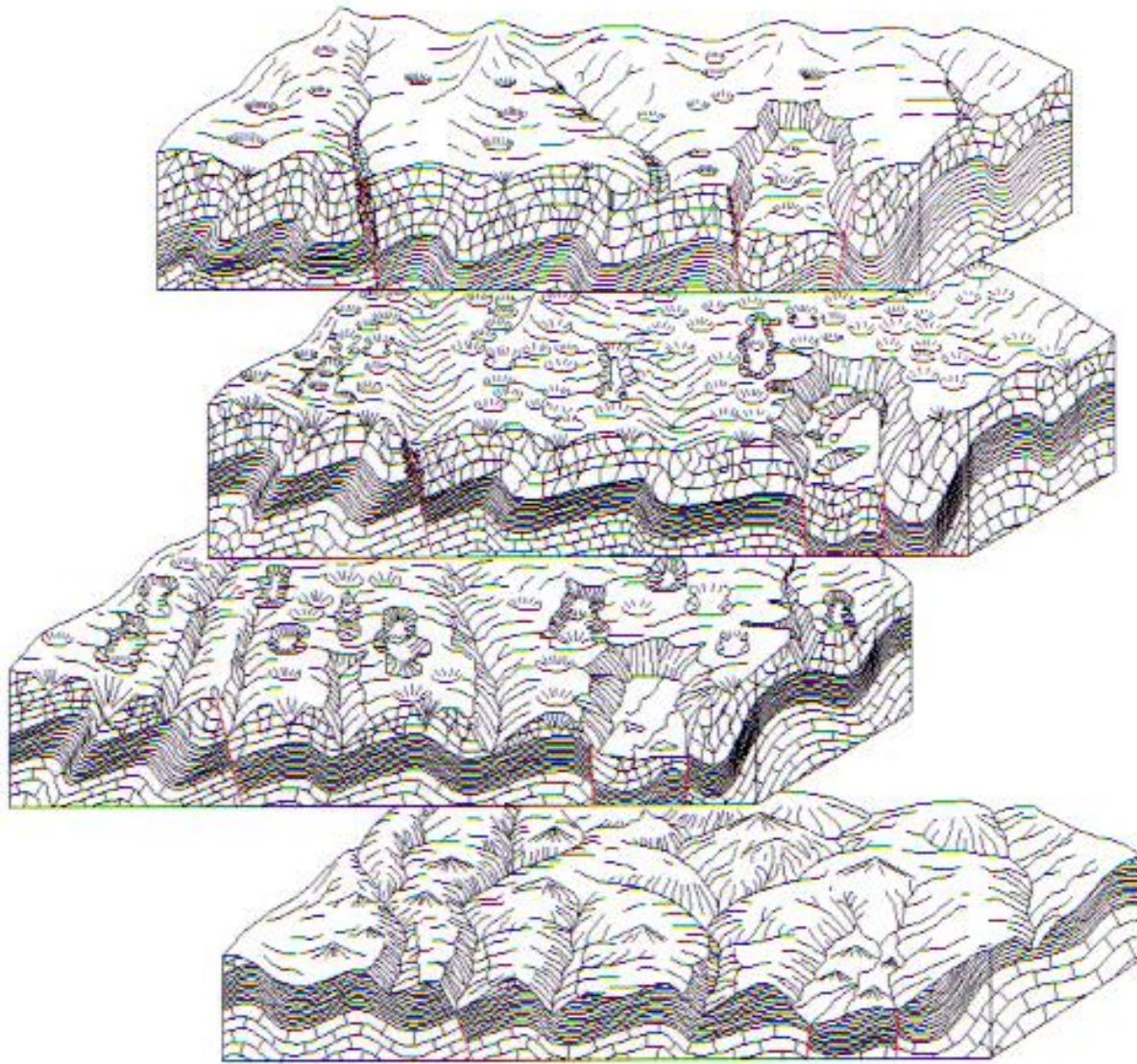




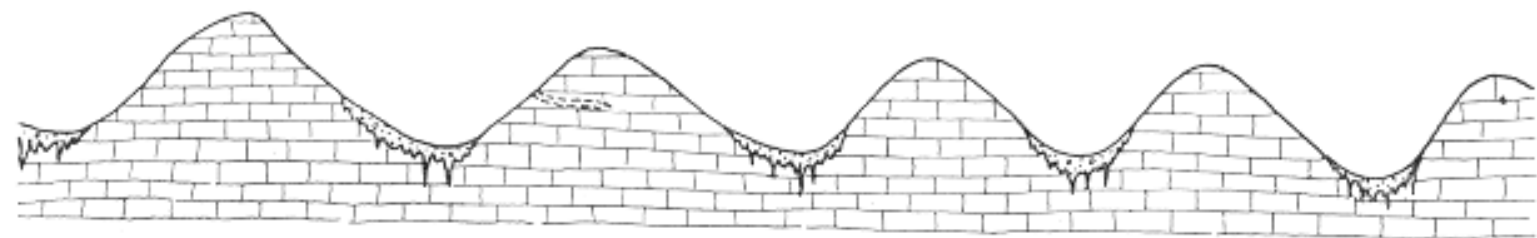








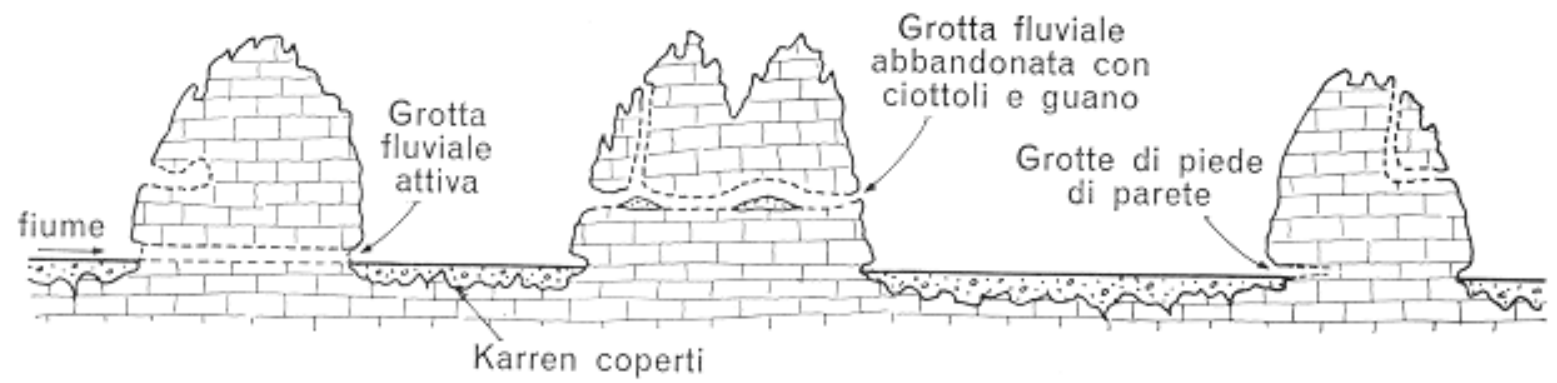
1



2



3





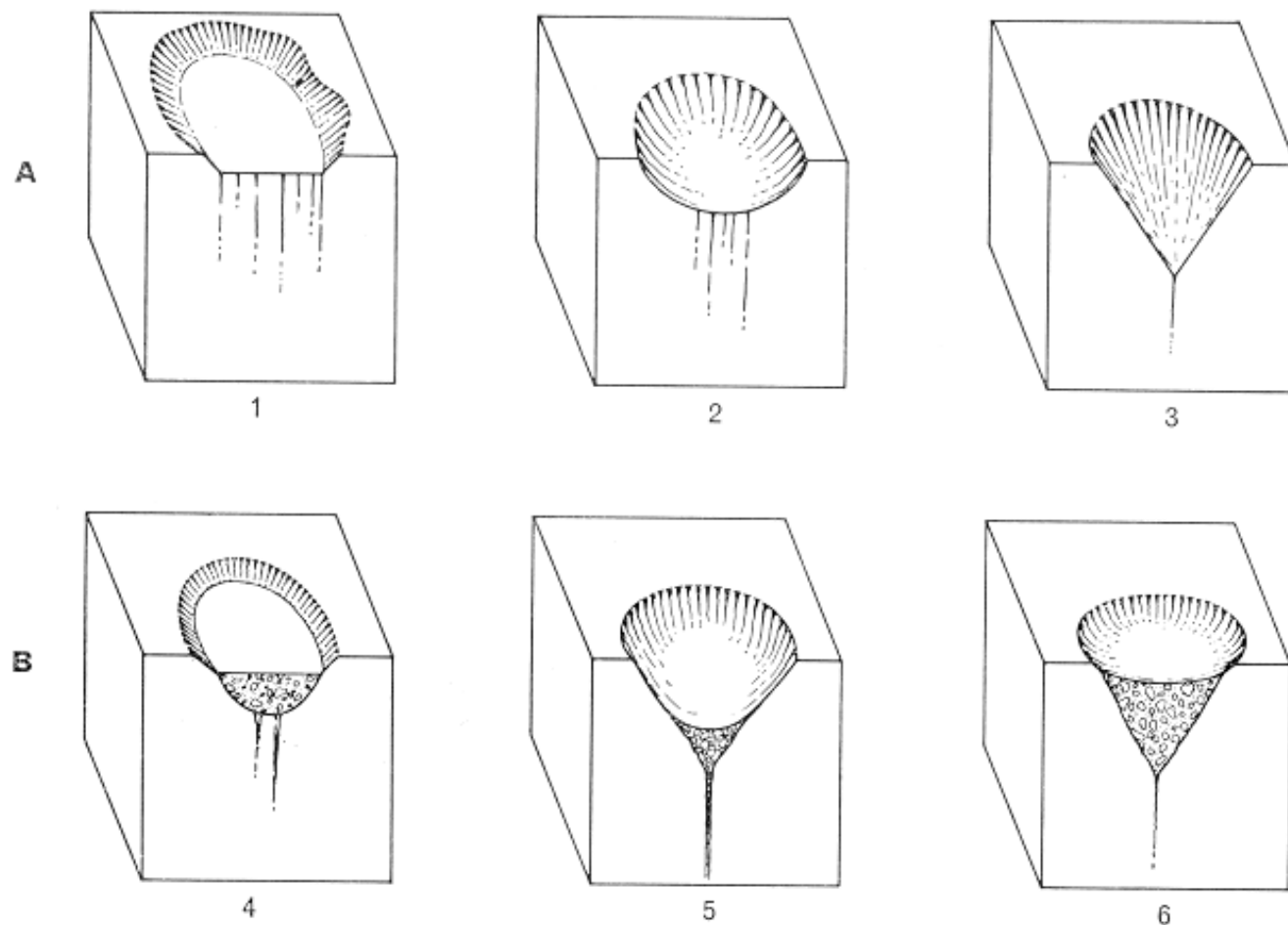
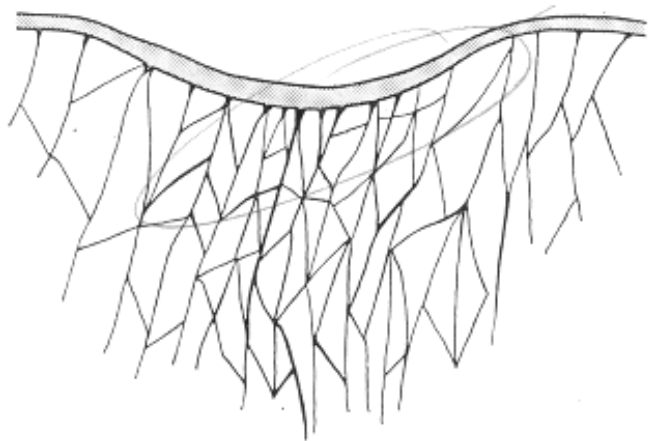


Fig. 9.5. Disegno schematico di alcuni tipi di doline.

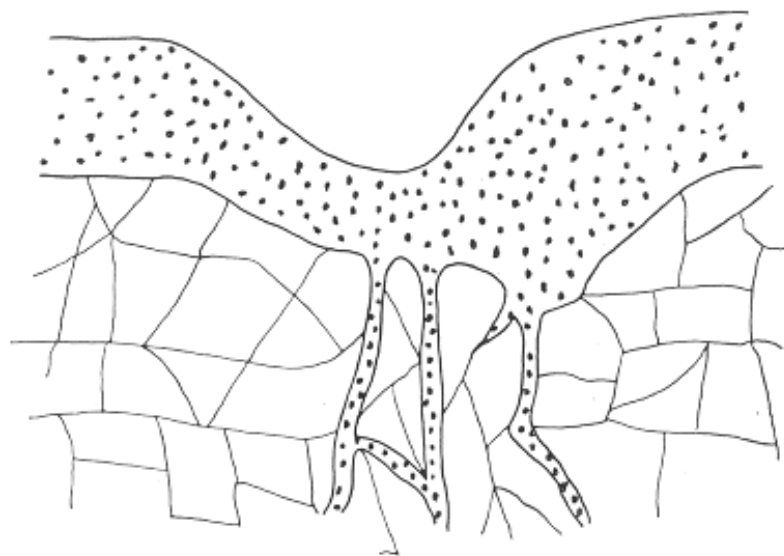
A. Doline senza depositi di riempimento: 1. a piatto; 2. a ciotola; 3. a imbuto.

B. Doline con depositi di riempimento: 4. a piatto; 5. a ciotola; 6. a piatto.

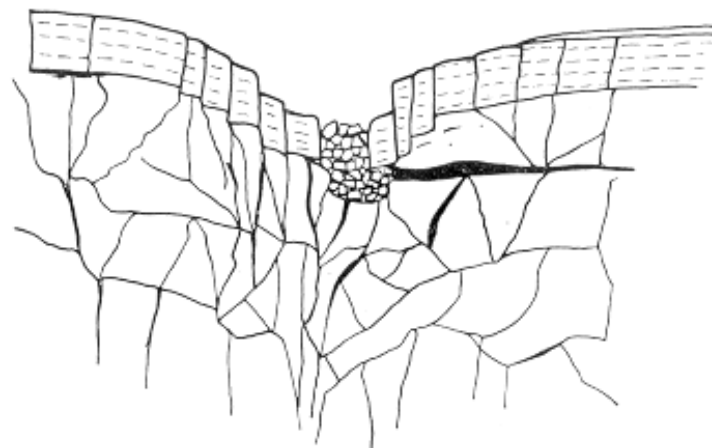
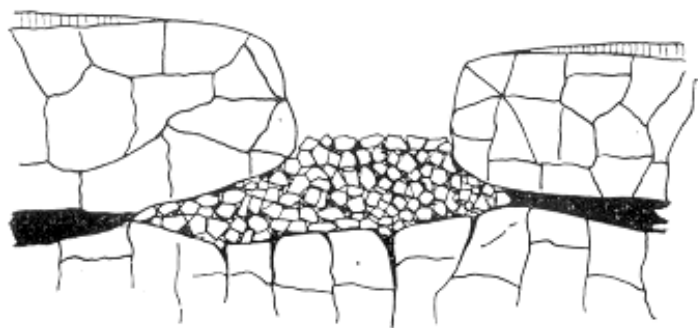
Il tipo 4 deriva dal riempimento parziale di una forma a ciotola (2), il tipo 5 da una forma a imbuto (3), così pure il tipo 6.



3 DOLINA A POZZO DI CROLLO



4 DOLINA DI SUBSIDENZA IN ROCCIA



INGHIOTTITOIO  
PRINCIPALE

DOLINE E INGIOTTITOI

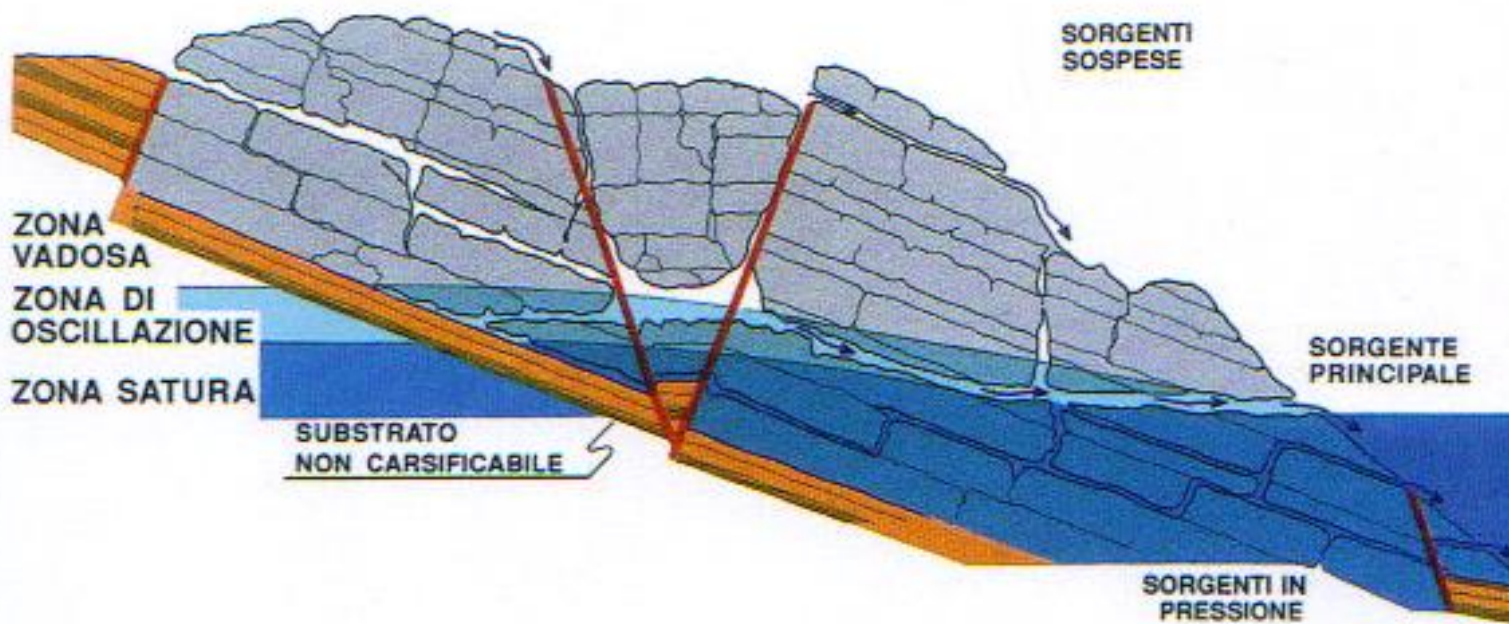
SORGENTI  
SOSPESE

ZONA  
VADOSA  
ZONA DI  
OSCILLAZIONE  
ZONA SATURA

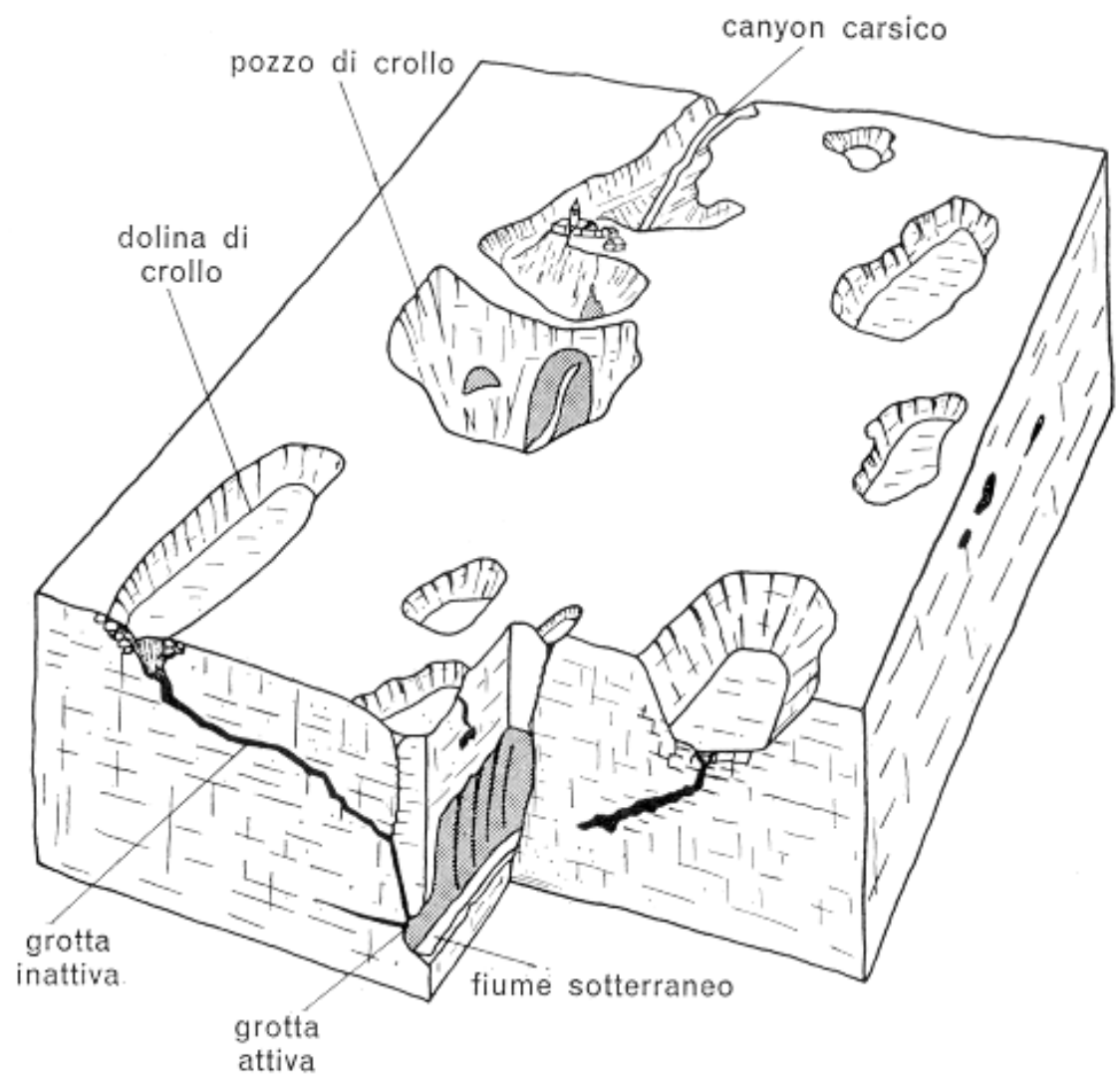
SUBSTRATO  
NON CARSI  
FICABILE

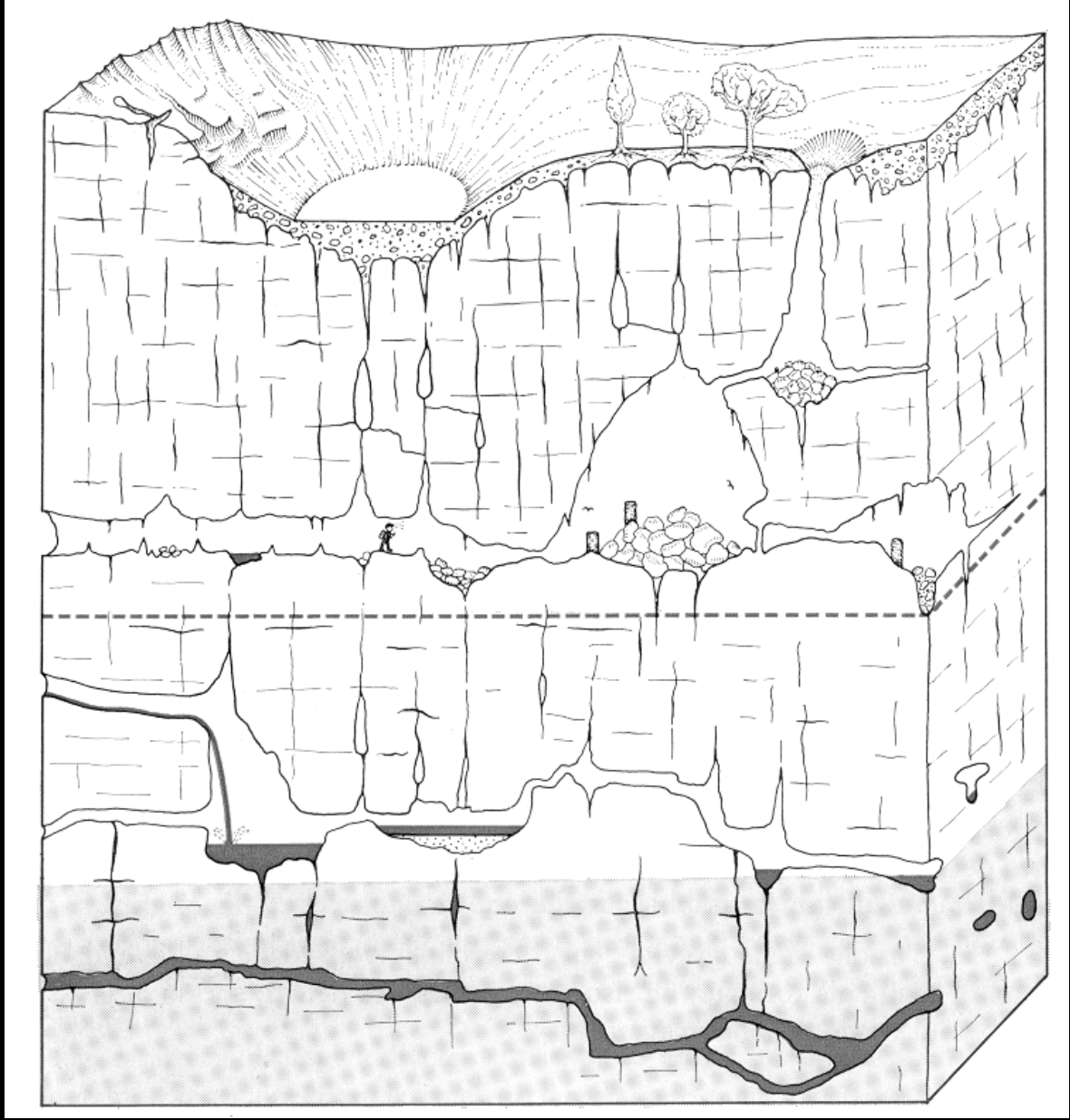
SORGENTE  
PRINCIPALE

SORGENTI  
IN  
PRESSIONE



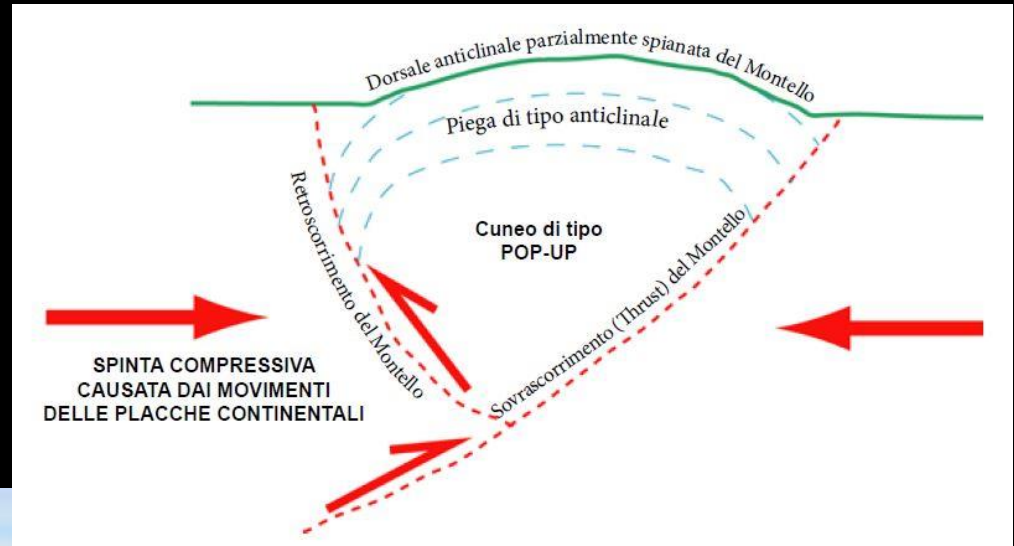








The Montello Conglomerate

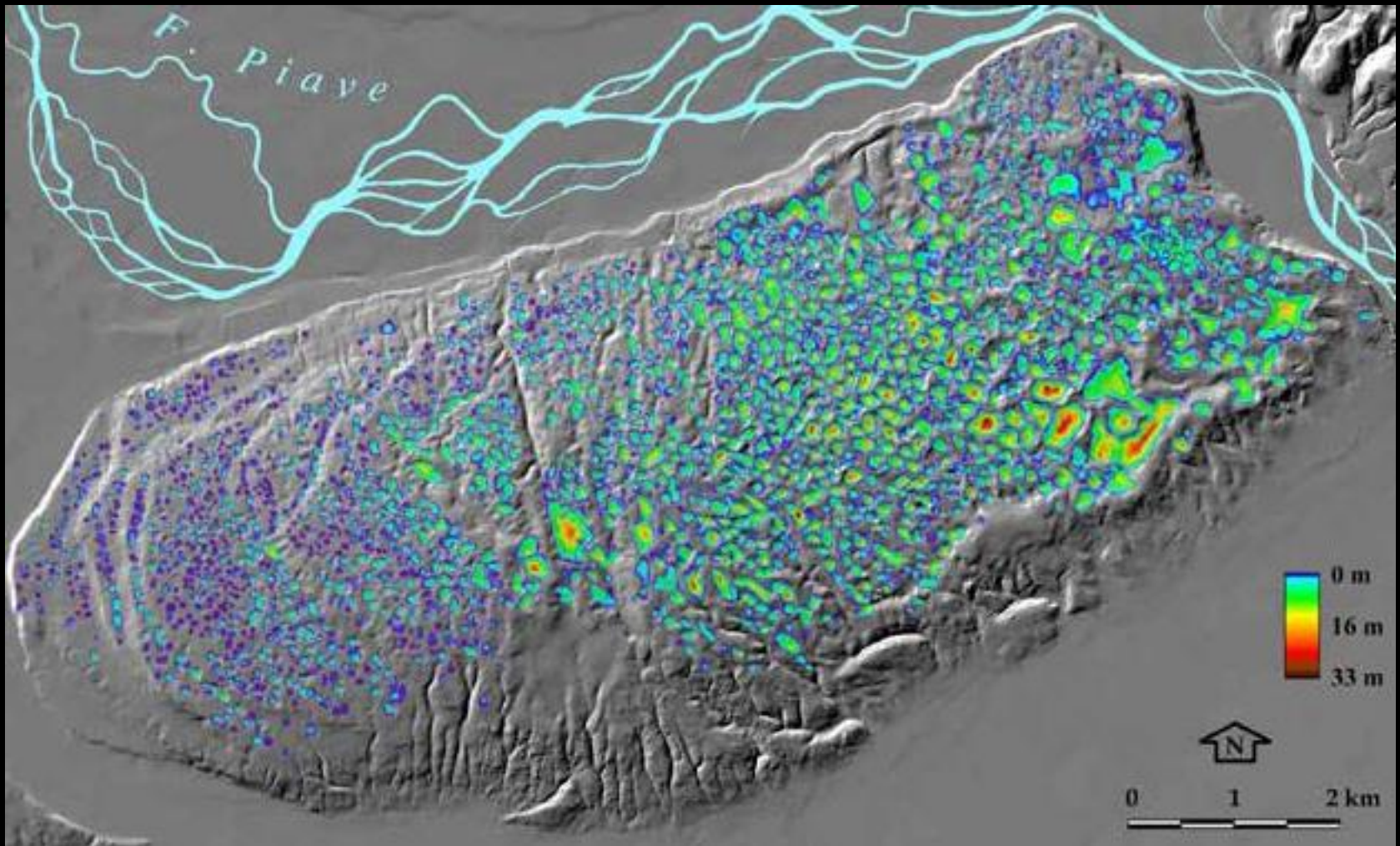


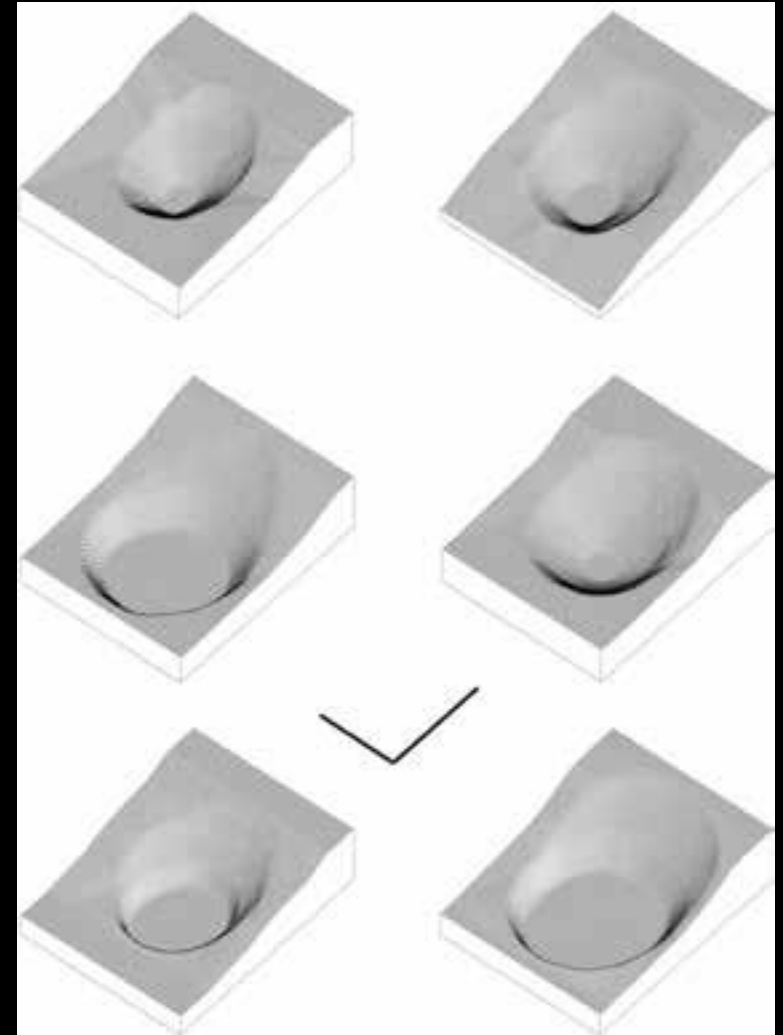
Sketch of the tectonic structure of the Montello hill.

## Digital elevation model of the Montello hill



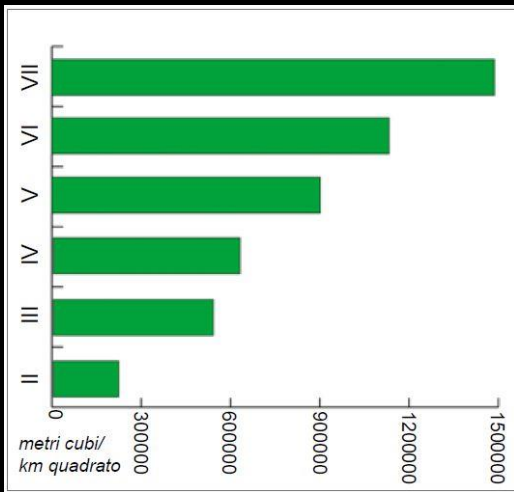
The distribution of the dolines of Montello, of which the depth is evidenced.



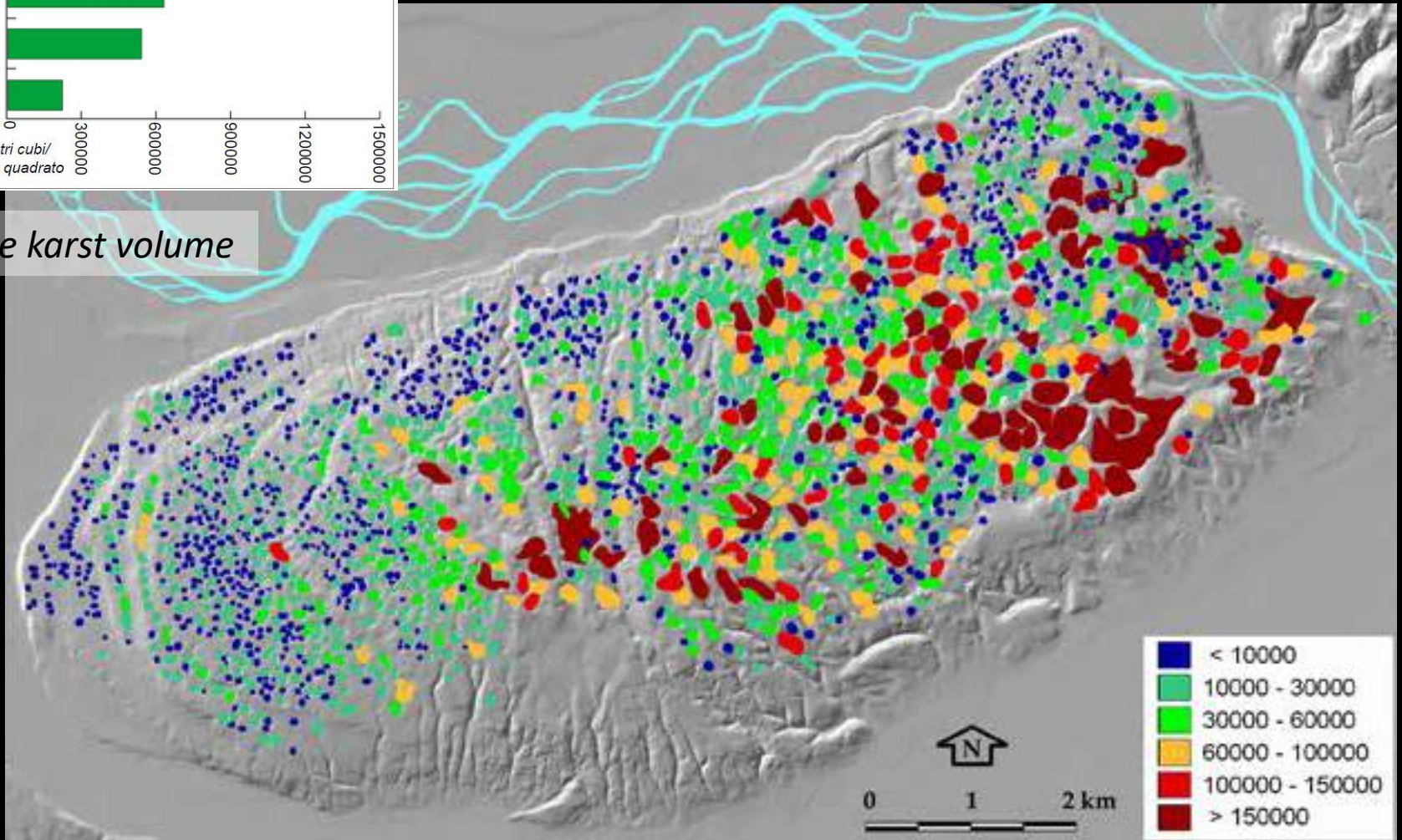


Standard dolines of the terraces,

*The distribution of dolines and uvalas of Montello evidenced by a scale of colors indicating the volumes of the closed depressions distinguished in six classes and expressed in cubic meters.*



The karst volume



The bed of the Piave river. Foreground, erosional surface in the conglomerates modeled by the river.







The averages longitudinal profiles of the western terraces, of the bottom of the Biadene furrow and of the main “dome” of the Montello hill. It is possible to recognize a bending of the erosional surfaces: the oldest ones have been more deformed by the tectonic processes than the youngest.

Digital elevation model of the Montello and of its main geomorphological units. The arrows indicate the direction of migration in time of the surfaces interested by fluvial planation, on which karst dolines have been over-imposed.

