

# GEOMORPHOLOGICAL MAP OF THE GRAN SASSO D'ITALIA MASSIF BETWEEN CORNO GRANDE-CORNO PICCOLO AND PIZZO INTERMESOLI

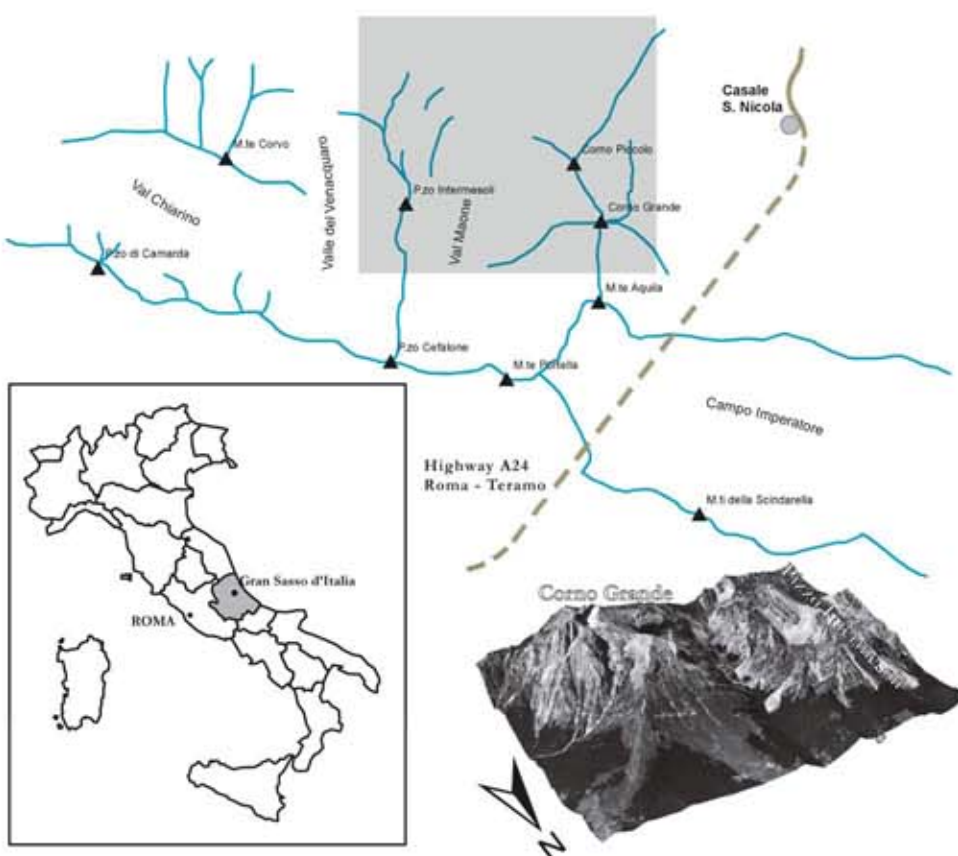
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Scala 1:10000

100 m 0 100 200 300 400 500 600 700 800 m

Surveyed at 1:5,000 scale in 2005-2008; data elaboration completed in May 2010.  
Geology after Vizzani & Ghisetti (1998)  
Topographic base: Abruzzo Region orthophoto map (1982)  
Coordinate System: European Datum 1950 UTM Zona 33N



### GEOLOGICAL-STRUCTURAL ELEMENTS

#### Bedrock

- Well cemented conglomerate and breccia
- Alternating clay and sandstone
- Marl and marly limestone
- Bedded limestone
- Massive limestone

#### Tectonics

- Anticline axis
- Syncline axis
- Fault
- Buried or inferred fault
- Thrust
- Inferred thrust

### HYDROGRAPHY

- Perennial spring
- Stream
- Permanent snow field
- Glacier

### STRUCTURAL LANDFORMS

- Edge of fault scarp with indicators of Quaternary tectonic reactivation
- Edge of major cliff
- Tectonic lineament
- Crest line
- Strongly fractured rocks
- Structural surface
- Peak
- Saddle

### SLOPE LANDFORMS DUE TO GRAVITY

#### Deep-seated gravitational slope deformation

- Trench
- Reversed slope
- Slope affected by inferred deep-seated gravitational slope deformation

#### Erosional landforms

- Edge of rock fall scarp
- Edge of roto-translational slide
- Edge of debris flow
- Edge of complex landslide
- Degradation crest line
- Edge of degradation scarp
- Rock channel with debris discharge
- Solifluction

#### Constructional landforms and deposits

- Rock fall deposit
- Roto-translational slide deposit
- Earth/debris flow deposit
- Complex landslide deposit
- Talus cone
- Scree slope
- Eluvial-coluvial deposit

### CRYGENIC/NIIVATION LANDFORMS

#### Active

#### Inactive

#### Erosional landforms

- Avalanche track
- Edge of nivation hollow

#### Constructional landforms and deposits

- Protalus rampart
- Avalanche cone
- Surface with debris lobes
- Surface with turf-banked lobes
- Block stream
- Rock glacier

### GLACIAL LANDFORMS

#### Active

#### Inactive

#### Erosional landforms

- Glacial saddle
- Roches moutonnées
- Edge of cirque
- Edge of overdeepened hollow
- Crest line
- Step in glacial valley
- Smoothed glacial surface

#### Constructional landforms and deposits

- Moraine ridge
- Erratic boulders area
- Glacial deposit

### FLUVIAL, FLUVIO-GLACIAL AND SLOPE LANDFORMS DUE TO RUNNING WATERS

#### Active

#### Inactive

#### Erosional landforms

- Waterfall
- Edge of erosional fluvial scarp
- Gully
- Surface affected by snow melting

#### Constructional landforms and deposits

- Alluvial fan
- Colluvial deposit
- Fluvio-glacial deposit

### KARST LANDFORMS

#### Active

#### Inactive

#### Erosional landforms

- Cave
- Karren

### MAN MADE LANDFORMS

- Debris produced by trampling
- Generic artifacts
- Fountain

