

CENTRAL - SOUTHERN APENNINES (ITALY)

Simplified Geological - Structural Map

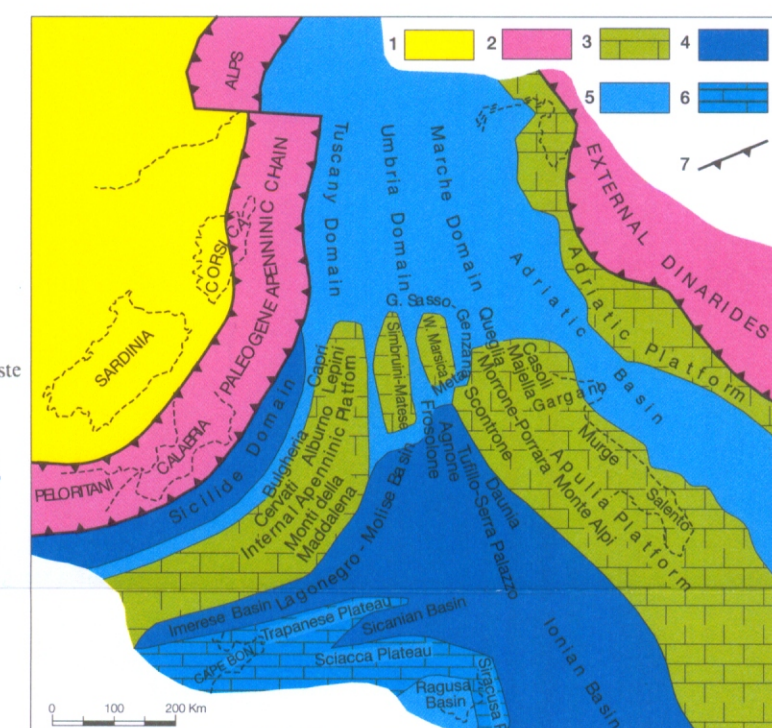
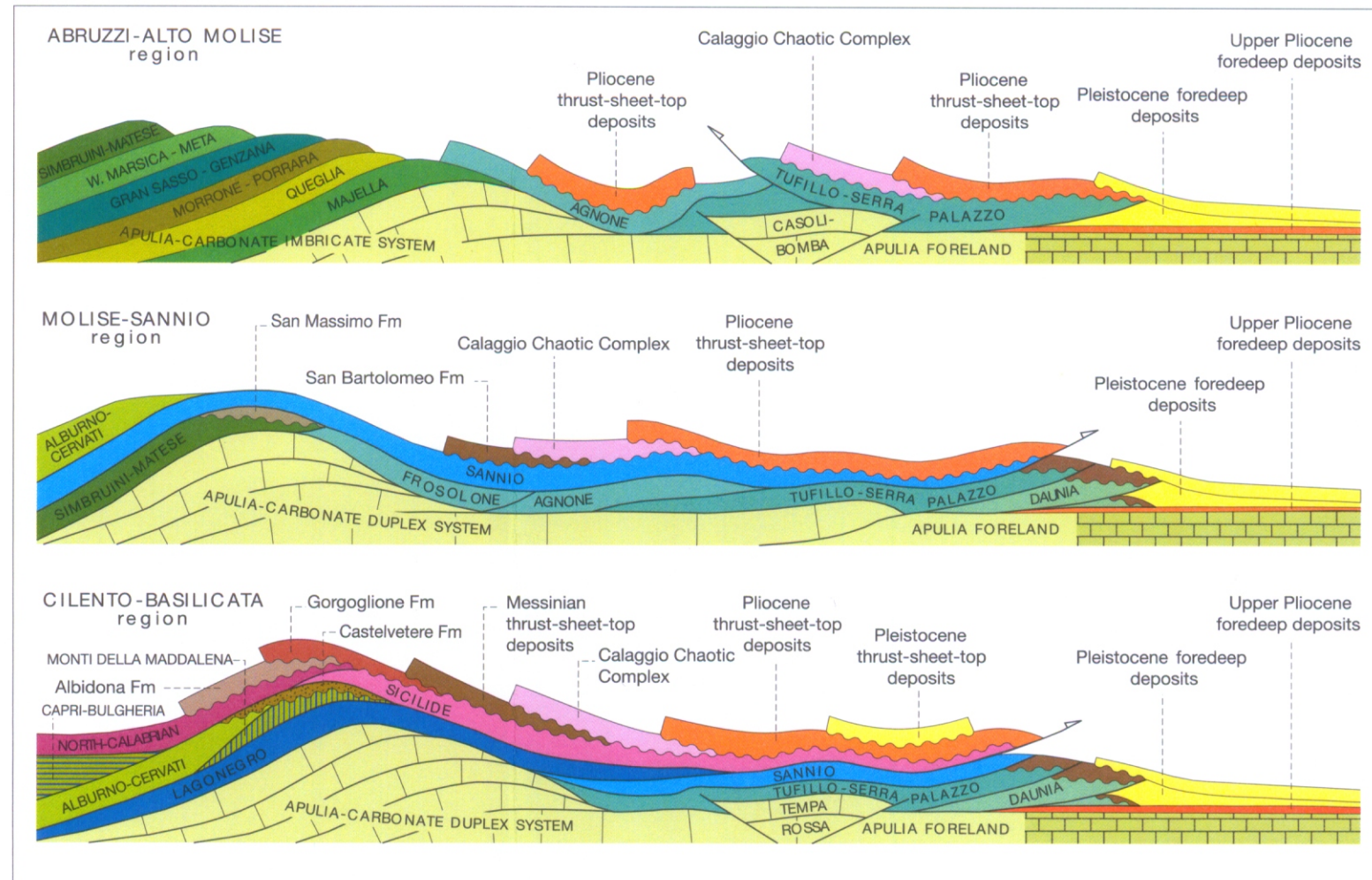
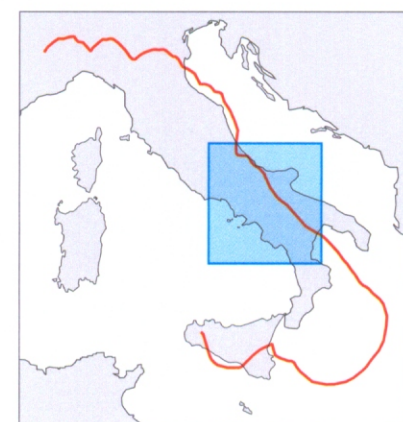
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Computer graphics: B. Taccini

Scale 1:500 000

km 0 10 20 30 40 50



- Continental and subordinate shallow-marine deposits (*Middle Pleistocene* p.p. to *Holocene*)
- Volcanics and volcanoclastic deposits (*Middle Pleistocene* to *Holocene*)
- Marine and subordinate continental deposits (*Lower Pleistocene* to *Middle Pleistocene* p.p.)

MIOCENE TO PLIOCENE THRUST-SHEET-TOP DEPOSITS

- Undifferentiated *Pliocene* deposits
- Uppermost *Messinian*/lowermost *Pliocene* Torrente Calaggio Chaotic Complex
- Undifferentiated *Messinian* deposits
- Uppermost *Tortonian*?-*Messinian* p.p. terrigenous deposits unconformably overlying the Sanno Unit (San Bartolomeo Fm and Topo Capuana Fm)
- Uppermost *Tortonian*?-*Messinian* p.p. terrigenous deposits unconformably overlying the Simbruni-Mateo Unit (San Massimo Sandstone), laterally replaced by the siliclastic flysch deposits of the Frosolone Unit (Sant'Elena Sandstone)
- Serravallian-Tortonian p.p. terrigenous deposits unconformably overlying the Albano-Cervati and Monti della Maddalena Units (Castellavere Fm)
- Serravallian-Tortonian p.p. terrigenous deposits unconformably overlying the Scilde Unit and the Albidona Fm (Gorgoglione Fm and Monte Sacco Fm)
- Lower *Miocene* p.p. terrigenous deposits unconformably overlying the North-Calabrian Unit (Cilentino Group and Albidona Fm)

APENNINIC UNITS

- High-grade metamorphic rocks of the Polla-Copanello Unit ("Diorite-Kindi" Unit, Auzi); Pliocene-Lupatini Units (metamorphosed and unmetamorphosed ophiolites, radiolites and basinal limestones, *Jurassic*-*lower Cretaceous*); Frido Melange (*Oligocene*?) and North-Calabrian Unit (*upper Cretaceous*-*lowermost Miocene* carbonate/siliclastic basinal deposits)
- Sicilide Unit (*upper Cretaceous*-*Burdigalian* p.p. carbonate/siliclastic basinal deposits; *Burdigalian* p.p. volcanoclastic turbidites)
- Monte Foraporta Unit (*Rhaetian*?-*Jurassic* restricted-basin carbonates)
- Verbaro Unit (*upper Triassic*-*lower Jurassic* p.p. platform carbonates; *lower Jurassic* p.p. to *lower Miocene* p.p. basinal carbonates)
- San Donato Unit (metamorphosed *middle Triassic* siliclastic deposits and algal limestones; *upper Triassic* to *lower Miocene* shallow-water and deeper-water carbonates)
- Capri-Bulgheria Unit (*upper Triassic*-*lower Jurassic* p.p. platform carbonates; *lower Jurassic* p.p. to *lower Miocene* p.p. slope-to-basin carbonate deposits)
- Albano-Cervati Unit (*upper Triassic* to *Burdigalian* platform carbonates, *Burdigalian* quartzarenites and *Burdigalian*-*Langhian* siliclastic flysch deposits); Timpona Palone Unit (*upper Cretaceous* platform limestones)
- Monti della Maddalena Unit (*upper Triassic*-*lower Jurassic* platform carbonates, *middle Jurassic* to *Burdigalian* slope-to-basin carbonate deposits and *Burdigalian* quartzarenites; Monte Croce Unit (*Jurassic*? to *Burdigalian* slope-to-basin carbonate deposits; *Langhian*-*Serravallian* basinal limestones and siliclastic flysch deposits)
- Sanno Unit (*lower Cretaceous* p.p.-*Burdigalian* p.p. basinal lime deposits, shales and radiolites; *Burdigalian* quartzarenites, *Langhian* marls and *Langhian*-*Serravallian* siliclastic flysch deposits)
- Lagonegro Units (*middle Triassic* chaotic siliclastic deposits including blocks of algal limestones; *upper Triassic*-*lower Cretaceous* basinal limestones, radiolites and shales)

- Frosolone and Agnone Units (b: *uppermost Tortonian*?-*Messinian* p.p. siliclastic flysch deposits; a: *Jurassic*-*Tortonian* basinal carbonates)
- Tuffillo-Serra Palazzo Unit (b: *uppermost Tortonian*?-*Messinian* p.p. siliclastic flysch deposits; a: *Paleogene*-*Tortonian* shales and carbonate/siliclastic basinal deposits)
- Daunia Unit (b: *uppermost Tortonian*?-*Messinian* p.p. siliclastic flysch deposits; a: *Paleogene*-*Tortonian* basinal shales and limestones)
- Simbruni-Mateo Unit (b: *Tortonian* p.p. siliclastic flysch deposits; a: *upper Triassic* to *Tortonian* p.p. platform carbonates and subordinate *Jurassic* to *Tortonian* p.p. slope-to-basin carbonate deposits)
- W. Marsica-Meta Unit (b: *Messinian* p.p. siliclastic flysch deposits; a: *upper Triassic* to *Messinian* p.p. platform carbonates, W. Marsica; *upper Triassic*-*lower Jurassic* platform carbonates and *Jurassic* to *Messinian* p.p. slope-to-basin carbonate deposits)
- Gran Sasso-Genzana Unit (b: *Messinian* p.p. siliclastic flysch deposits; a: *upper Triassic*-*lower Jurassic* platform carbonates and *Jurassic* to *Messinian* p.p. slope-to-basin carbonate deposits)
- Montagna dei Fiori Unit (b: *Messinian* p.p. siliclastic flysch deposits of the Laga Fm; a: *lower Jurassic* platform carbonates and *Jurassic* to *Messinian* p.p. slope-to-basin carbonate deposits)
- Morrone-Porrara Unit (b: *Messinian* p.p. siliclastic flysch deposits; a: *Jurassic* to *Messinian* p.p. platform-to-basin carbonate deposits); Monte Api Unit (*upper Jurassic* to *Messinian* p.p. platform carbonates unconformably overlying *lower Pliocene*? terrigenous deposits)
- Queglia Unit (b: *Messinian* p.p.-*lower Pliocene* p.p. siliclastic flysch deposits; a: *upper Cretaceous* to *Messinian* p.p. platform-to-basin carbonate deposits)
- Majella Unit (b: *lower Pliocene* siliclastic flysch deposits; a: *lower Cretaceous* to *Messinian* p.p. platform-to-basin carbonate deposits)
- Casoli-Bomba Unit (*Pliocene* clays and marly clays)
- APULIA FORELAND
- Jurassic* to *Messinian* p.p. platform-to-basin carbonate deposits of the Murge-Gargano Foreland

- Faults, including normal faults, strike-slip faults and lateral ramps
- High-angle thrusts
- Low-angle thrusts
- Detachment surface at the base of the Sanno Unit
- Anticline axis
- Syncline axis
- Caldera/crater rim