

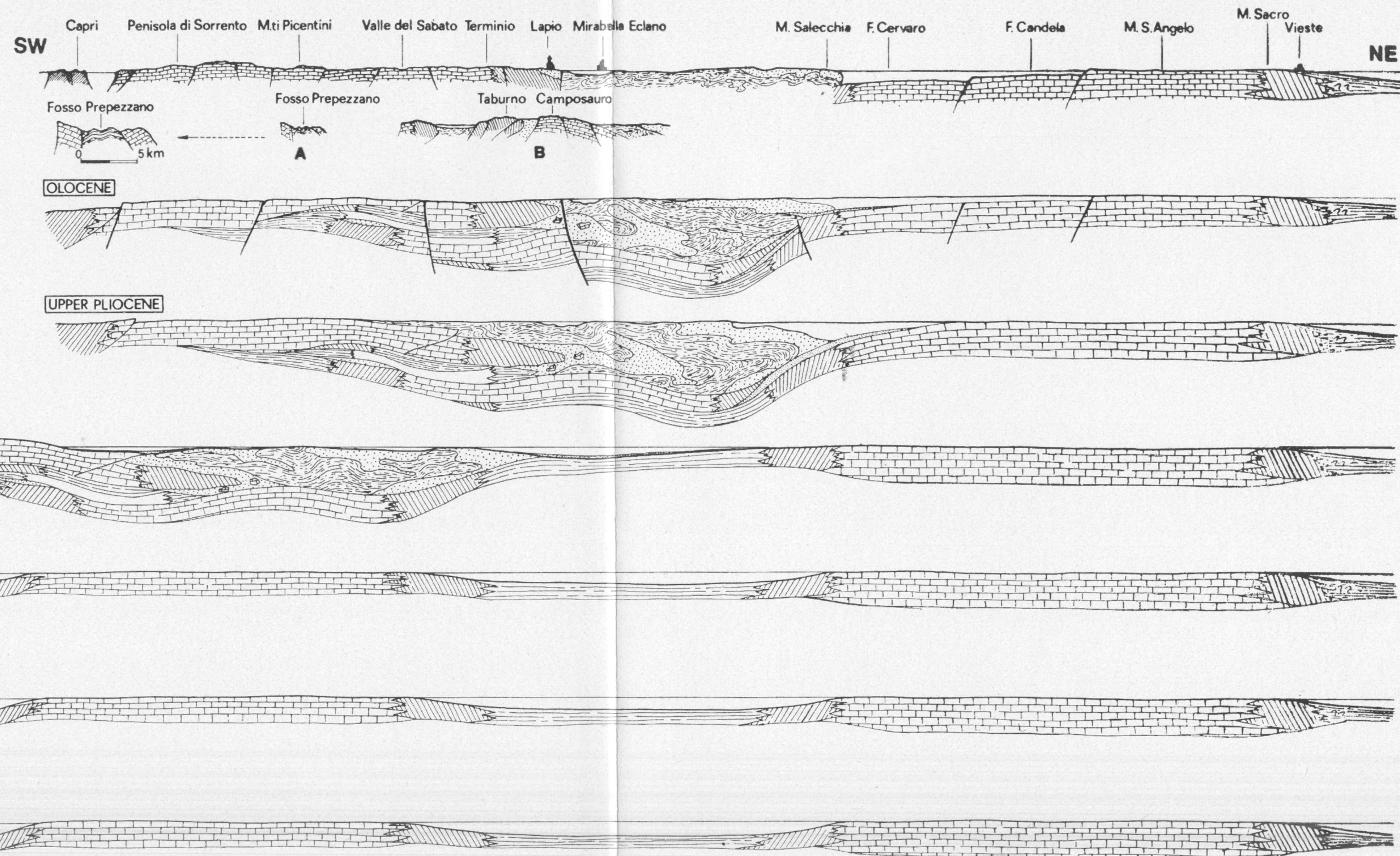
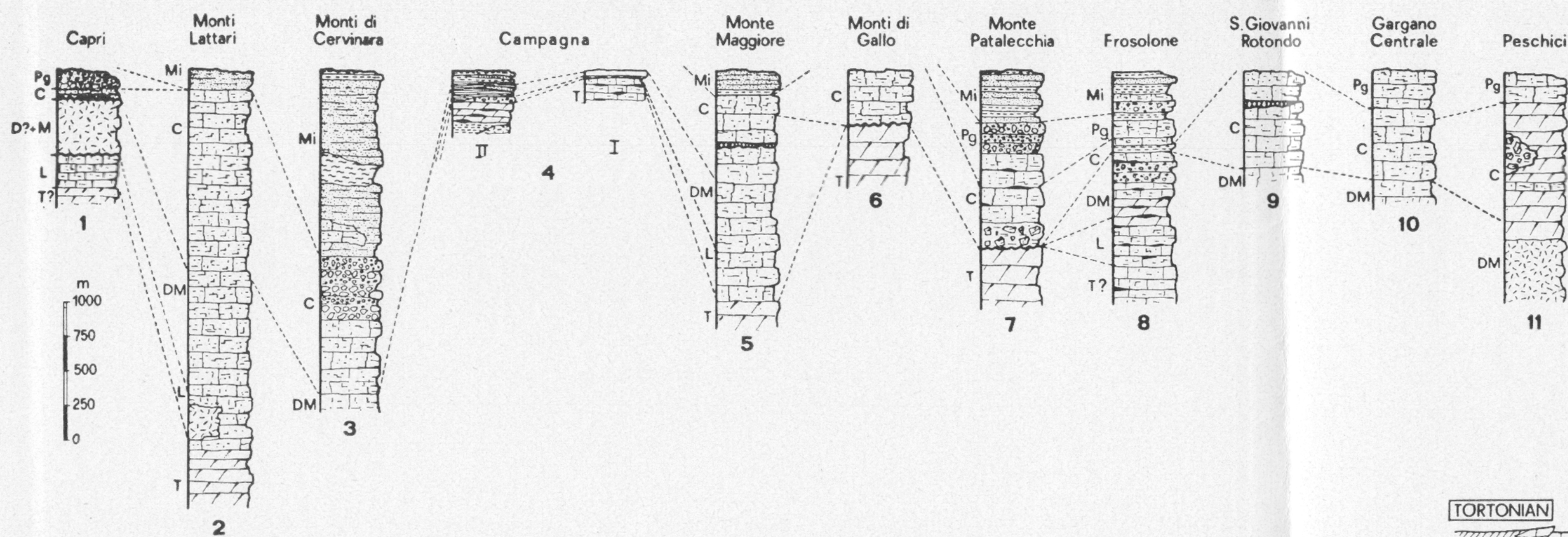


PLATE I

STRATIGRAPHIC COLUMNS: LITHOLOGY AND AGE

1 = Sandstones; 2 = Clays and marls; 3 = Limestones, generally not stratified (reef complexes); 4 = Limestone, generally micritic, sometimes more or less intensely dolomitized; 4a = Bauxitic horizon (bx) grading laterally into breccias; 5 = Limestone with chert; 6 = Dolomites, frequently stromatolitic; 7 = Dolomites with chert; 8 = Radiolarites and siliceous claystones; 9 = Calcirudites and turbiditic calcarenites; 10 = Conglomerates; 11 = Varicoloured clays; 12 = Transgressions.

MI = Miocene; Pg = Paleogene; C = Cretaceous; DM = Dogger-Malm; L = Lias; T = Triassic.

PALINSPASTIC AND GEOLOGICAL SECTIONS

Bradano Foretrough and Plio-Pleistocene intra-Apennine basins.

13 = Sands, clays and conglomerates (Upper Pliocene - Calabrian).

Mio-Pliocene intra- and peri-Apennine basins.

14 = Sandstones and sands, clays, conglomerates of the Altavilla and similar basins, evaporitic in places (Upper Tortonian - Middle Pliocene).

Irpino Basin ('external' flysch).

15 = Sandstones and graded calcarenites, marls and clays; wildflysch facies in the more internal parts of the basin (Langhian - Lower Tortonian).

East Gargano Basin.

16a = *Internal Margin*: Pelagic limestones with intercalations of turbiditic limestones with chert; towards the top they gradually become a *maiolica* facies. A slate facies and a chalk facies (Upper Jurassic - Paleocene); calcirudites and calcarenites (Eocene-Miocene).

Apulia Carbonate Platform.

16b = *External Margin*: Dolomites and limestones, (Upper Jurassic - Lower Cretaceous) sometimes with reef facies (Lias-Cretaceous).

17 = *Back Reef Complex*: Evaporites (Upper Triassic - Infra-Lias) dolomites and limestones (Upper Triassic-Upper Cretaceous); a bauxitic horizon is present in the Middle Cretaceous in the northern part of the outcrop area; stratigraphic hiatus calcaren-

ites and calcilutites (Paleocene); stratigraphic hiatus; calcarenites (Serravalle); stratigraphic hiatus; calcarenites (Upper Pliocene-Calabrian).

18 = *Internal Margin*: (by interpolation).

Molise Basin.

19 = Dolomites, limestones with chert, calcarenites, marls (Upper Triassic? - Infra-Lias - Middle Miocene); followed by a sandy marly flysch (Tortonian).

Abruzzo - Campania Carbonate Platform.

20 = *External Margin*: Dolomites and limestone (Upper Triassic-Jurassic) stratigraphic hiatus; reef complex in places (Upper Jurassic-Lower Cretaceous); more externally, limestones with cherts and silicified marls, turbiditic calcarenites and calcirudites, marls, limestones (Lower Cretaceous - Serravallian, with local stratigraphic hiatuses); followed by sandy, marly flysch (Tortonian).

21 = *Back Reef Complex* (and its southern extension in Monte Alpi): Dolomites, dolomitic limestones and limestones (Upper Triassic-Upper Cretaceous); a bauxitic horizon is present in the Middle Cretaceous passing laterally to breccias; stratigraphic hiatus in some areas, limestones and Paleocene marls or calcarenites, grading toward the top to marls and sandy, marly flysch (Langhian-Tortonian).