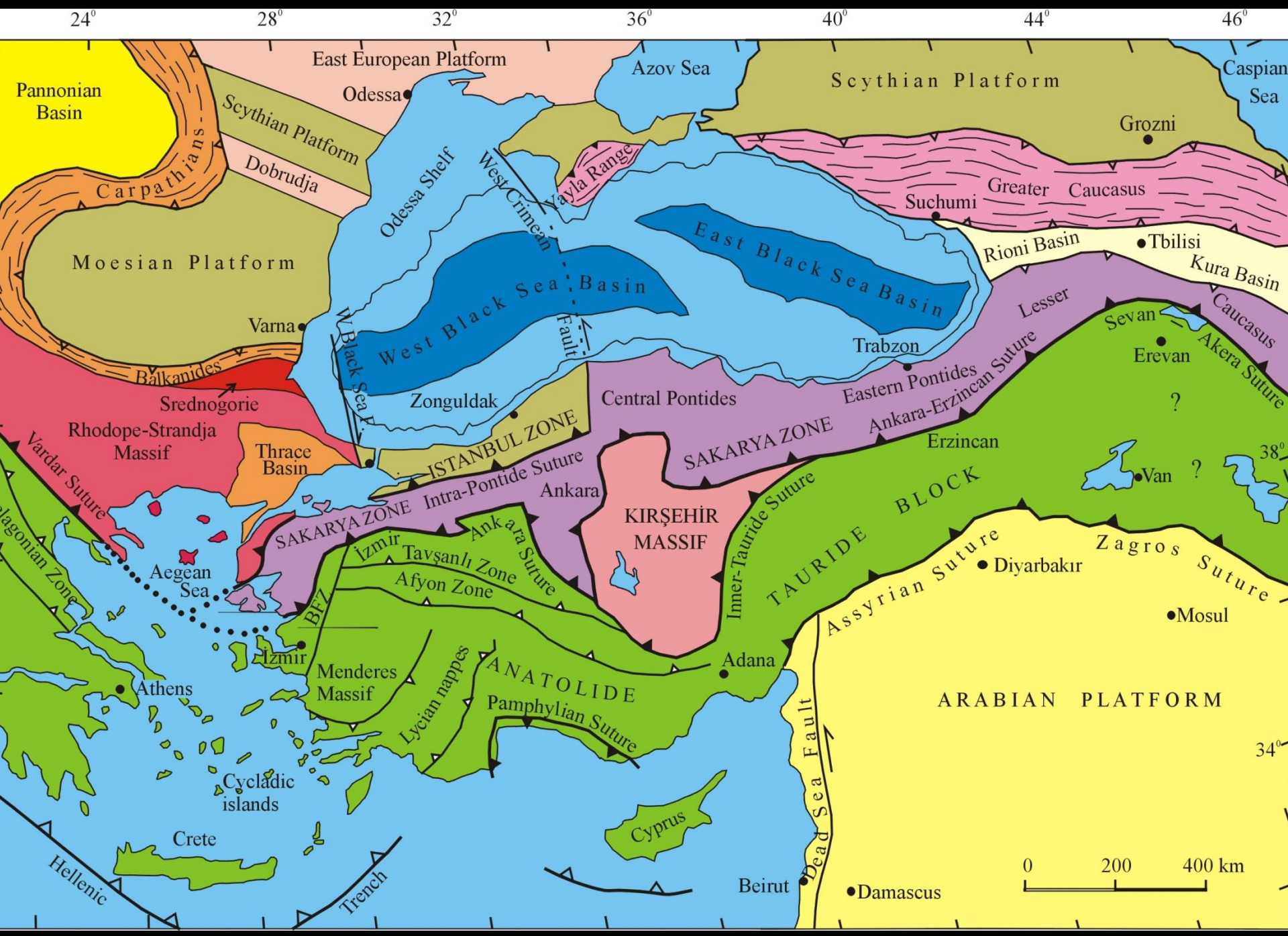


Bornova Fliş Zonu

Büyük bir melanj- olistostrom kuşağı

Aral Okay

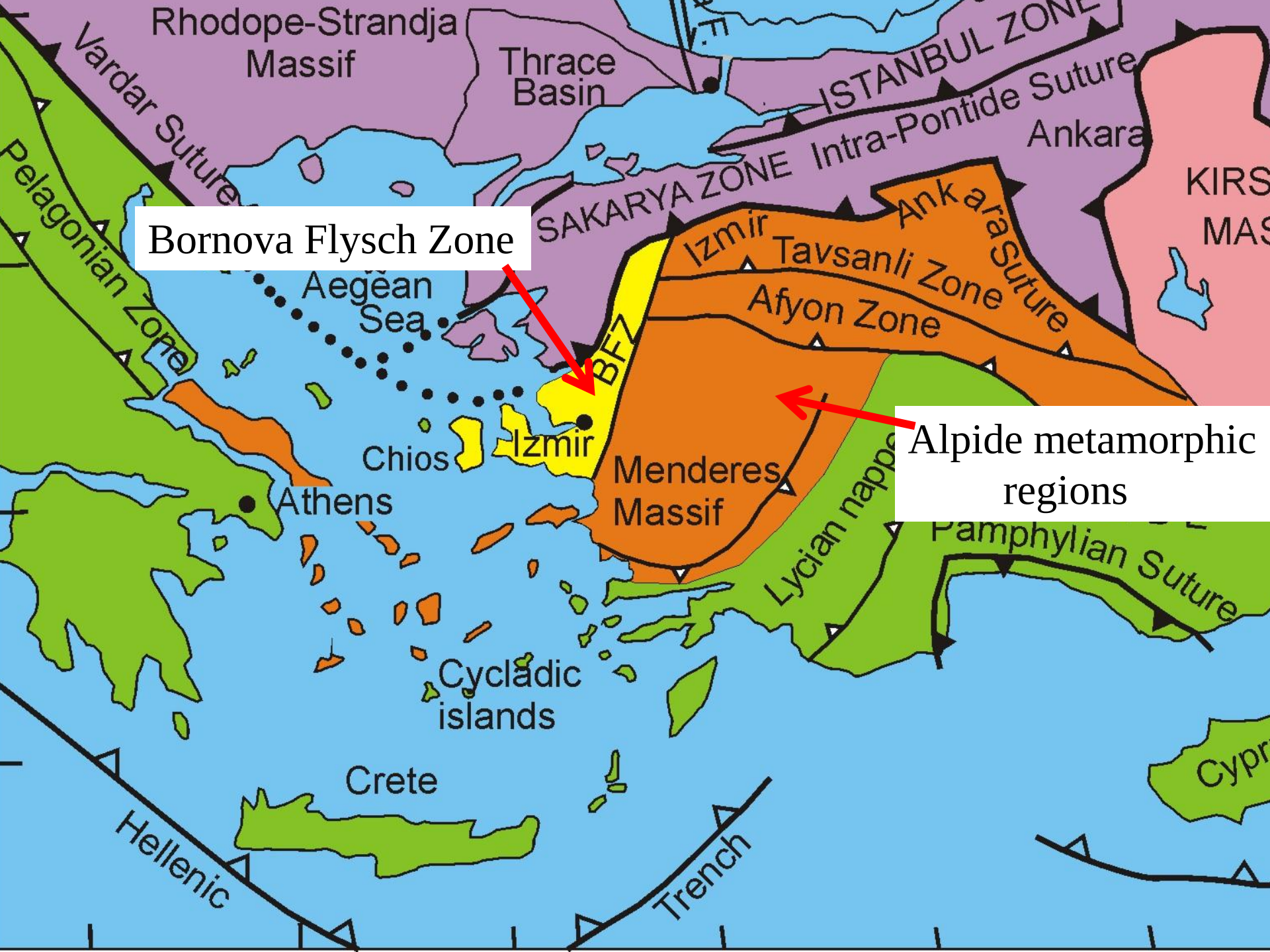
Istanbul Teknik Üniversitesi







Bornova Flysch Zone



Bornova Flysch Zone

Alpide metamorphic regions

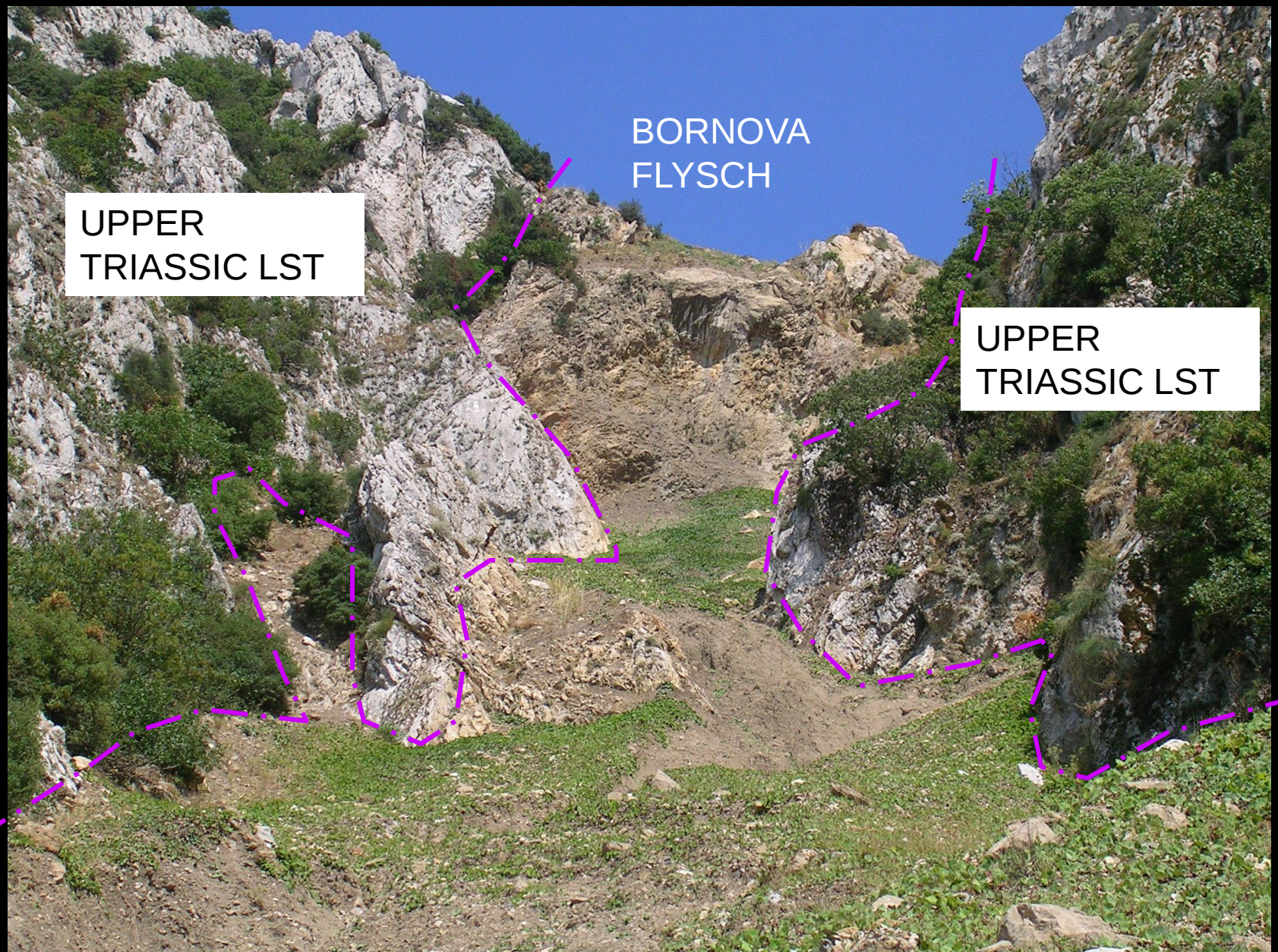












BORNOVA
FLYSCH

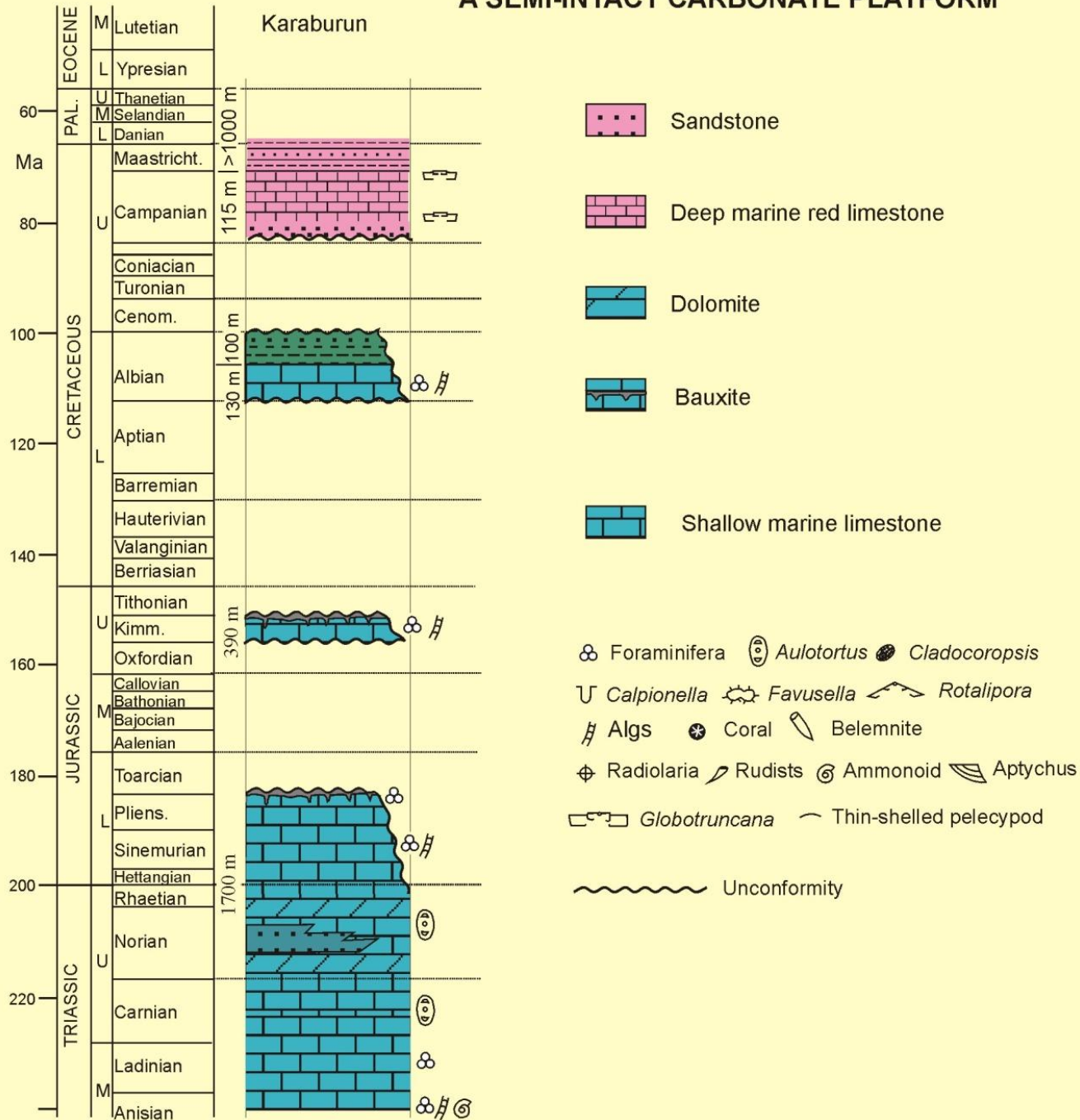
UPPER
TRIASSIC LST

UPPER
TRIASSIC LST

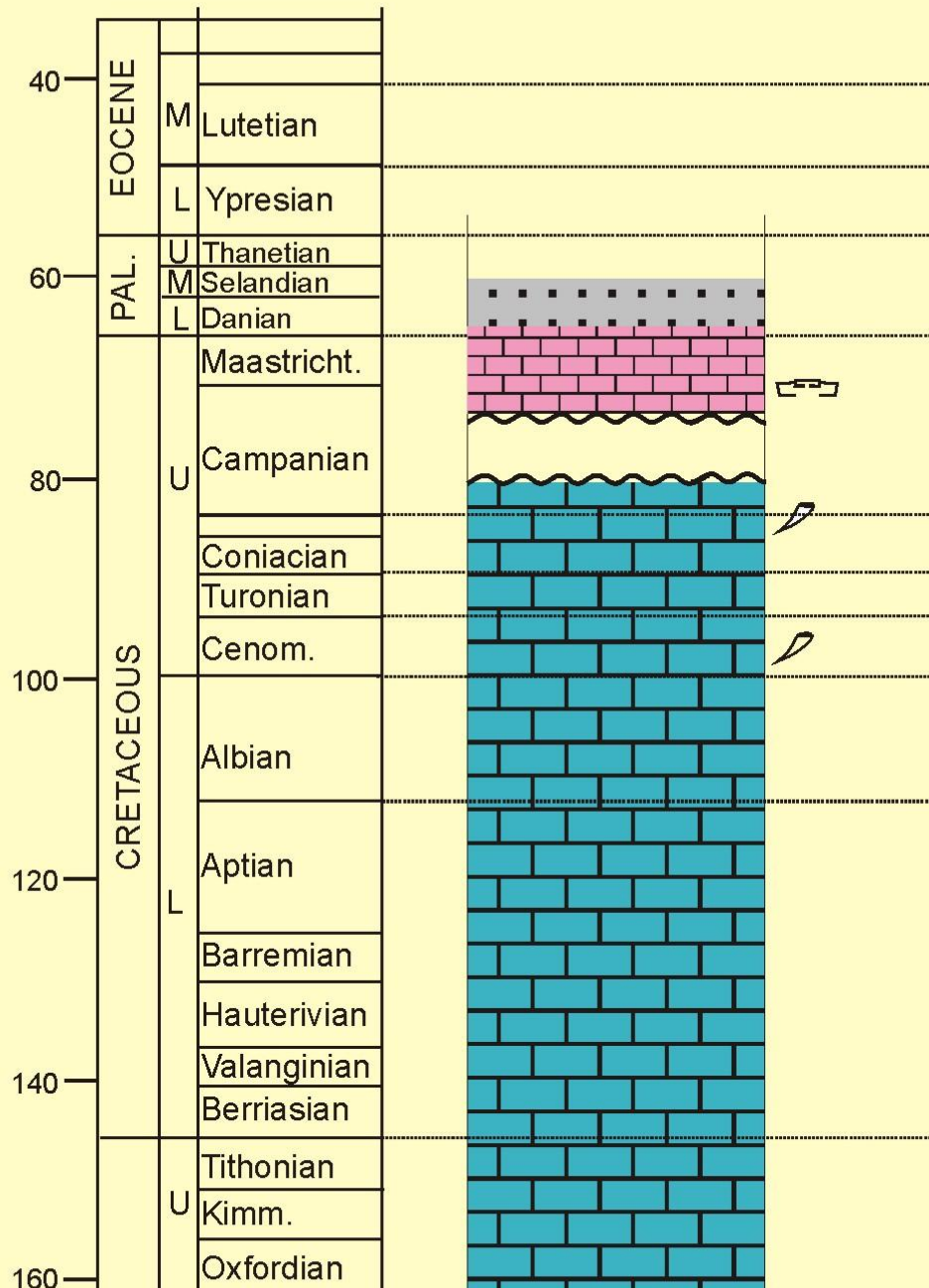


KARABURUN STRATIGRAPHY

A SEMI-INTACT CARBONATE PLATFORM



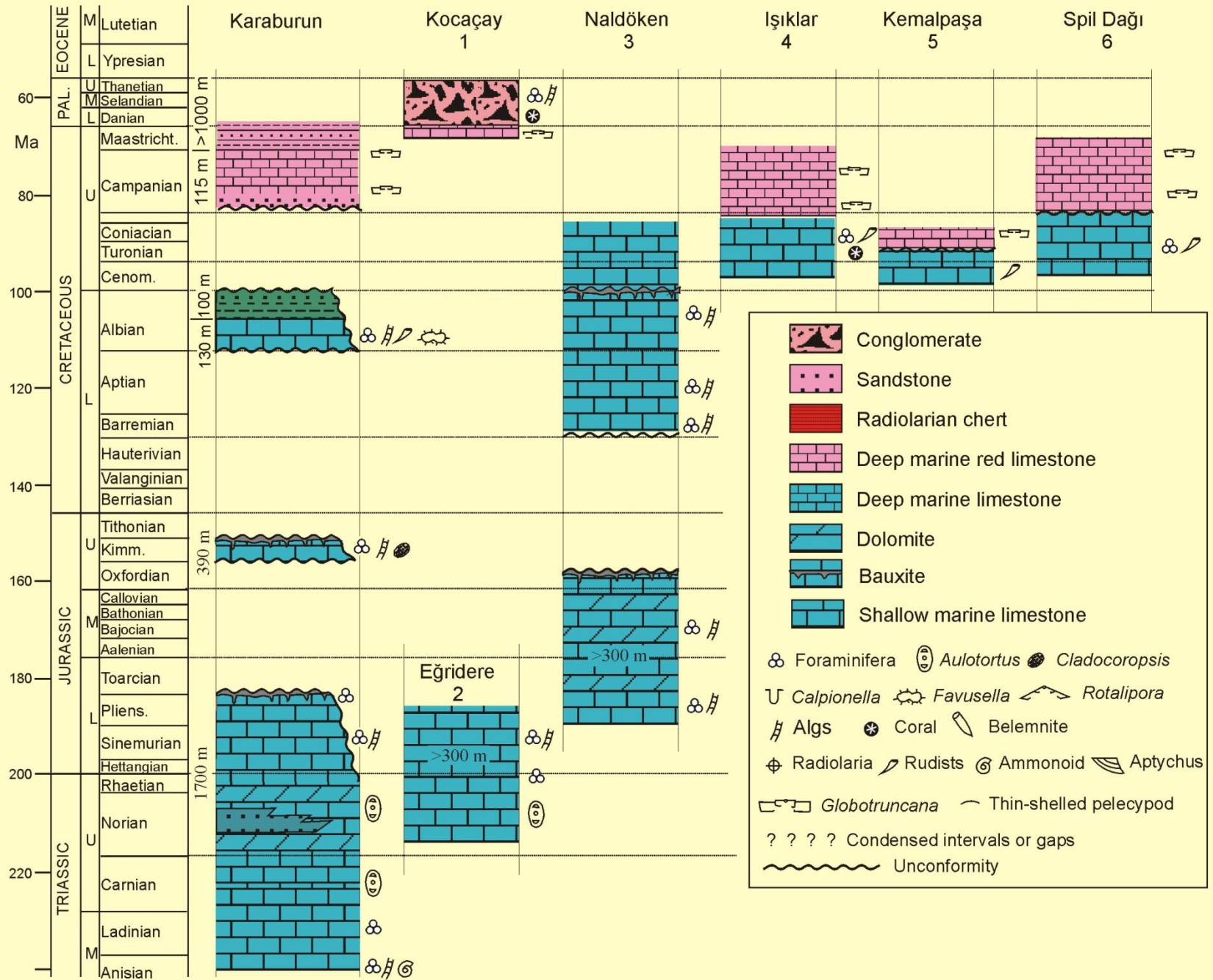




Menderes Massif

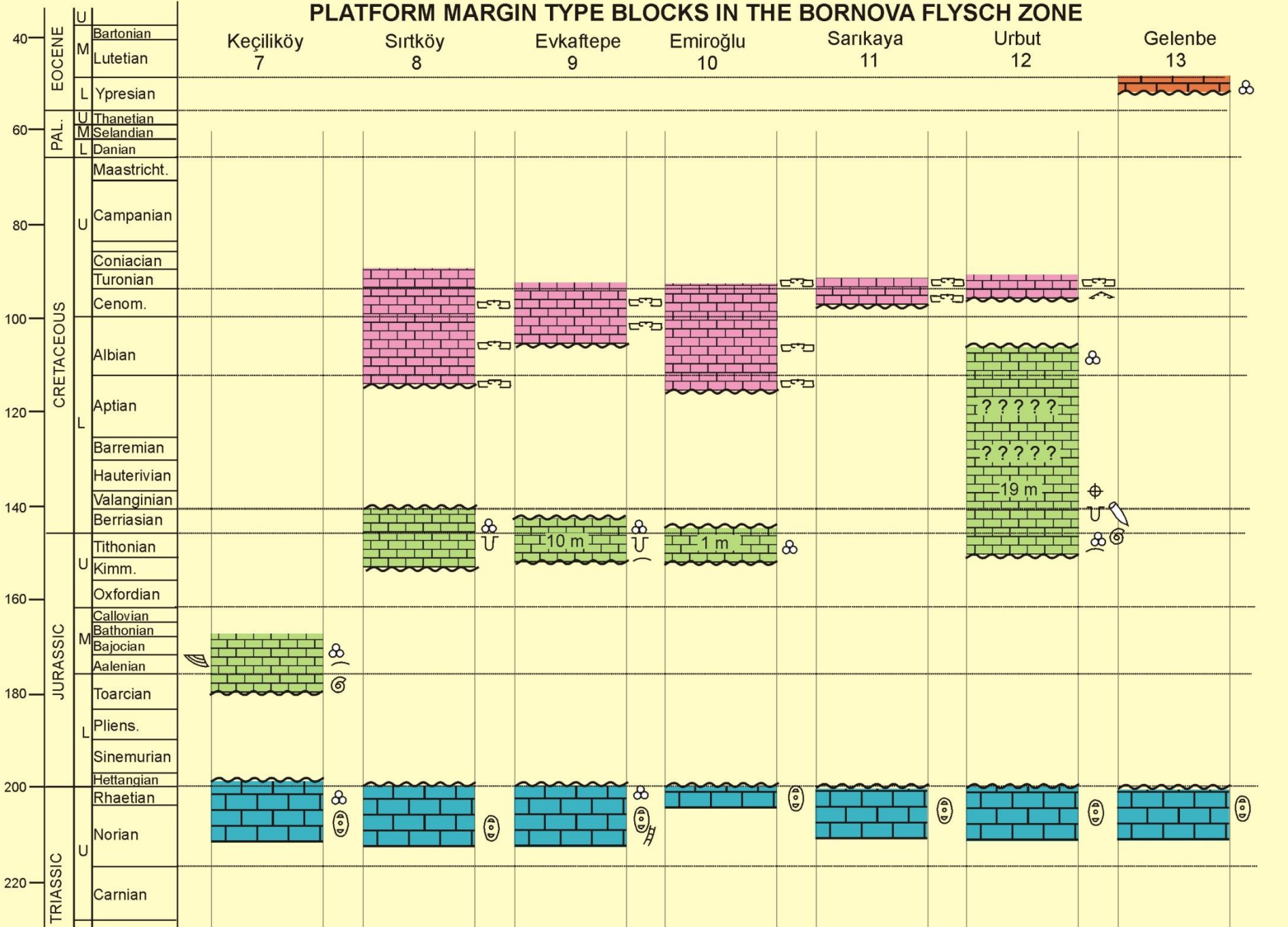


KARABURUN AND PLATFORM TYPE BLOCKS IN THE BORNOVA FLYSCH ZONE



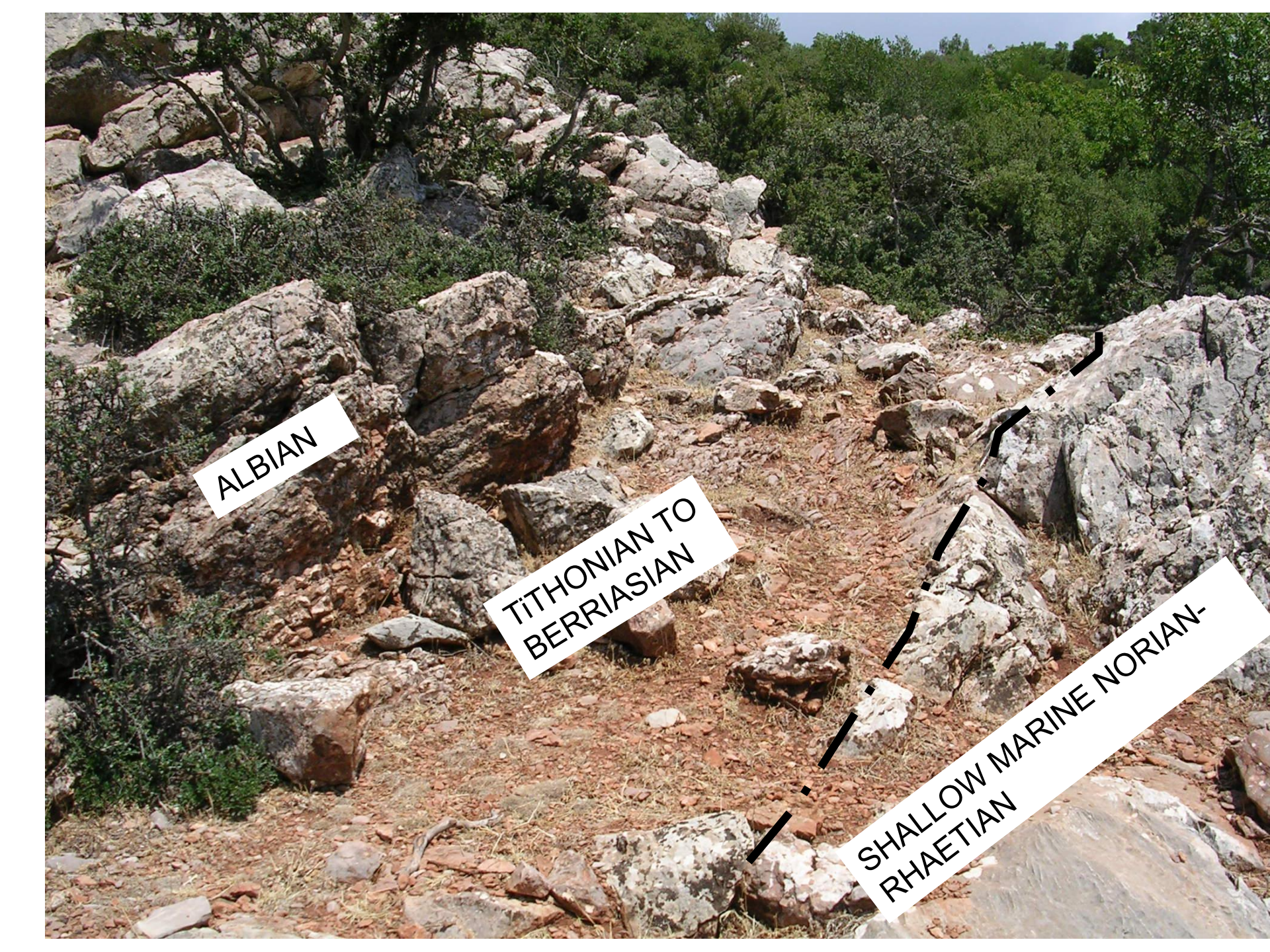


PLATFORM MARGIN TYPE BLOCKS IN THE BORNOVA FLYSCH ZONE





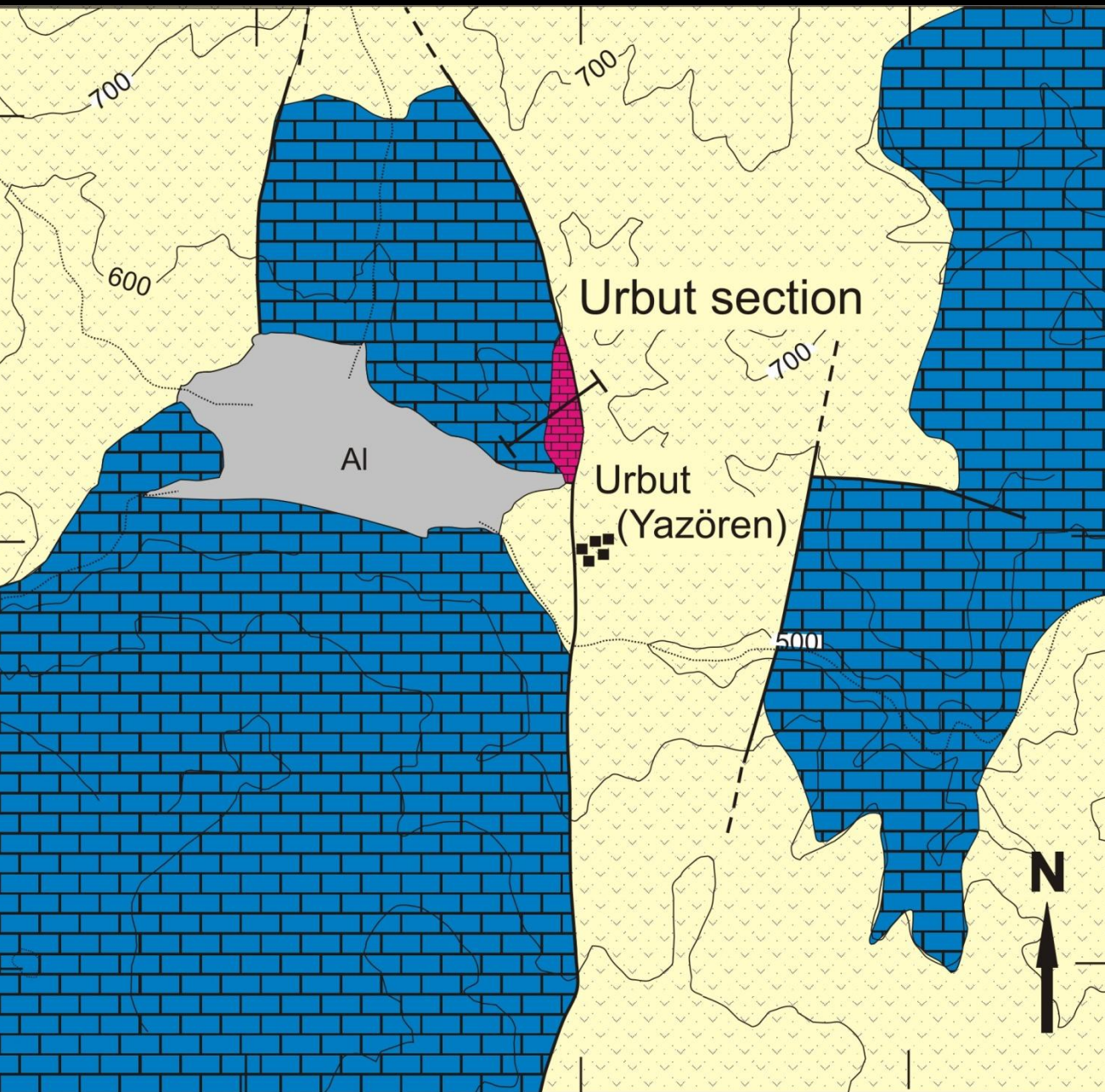
permanent mark
Marker - wasserfest auf fast allen Materialien
Materialien: Stein, Beton, Holz, Glas, Metall, Kunststoff, etc.
Größe: 10 cm
Farbe: blau/weiß
Hersteller: [illegible]

A photograph of a geological outcrop showing various rock layers. The outcrop is composed of large, light-colored, blocky rock fragments and smaller reddish-brown fragments. A dashed line runs diagonally across the outcrop, separating different geological units. The background is filled with dense green trees and shrubs.

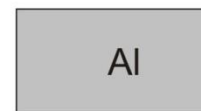
ALBIAN

TITHONIAN TO
BERRIASIAN

SHALLOW MARINE NORIAN-
RHAETIAN



Quaternary

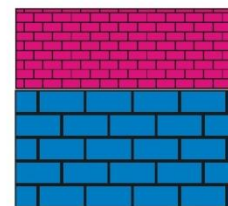


alluvium

Miocene



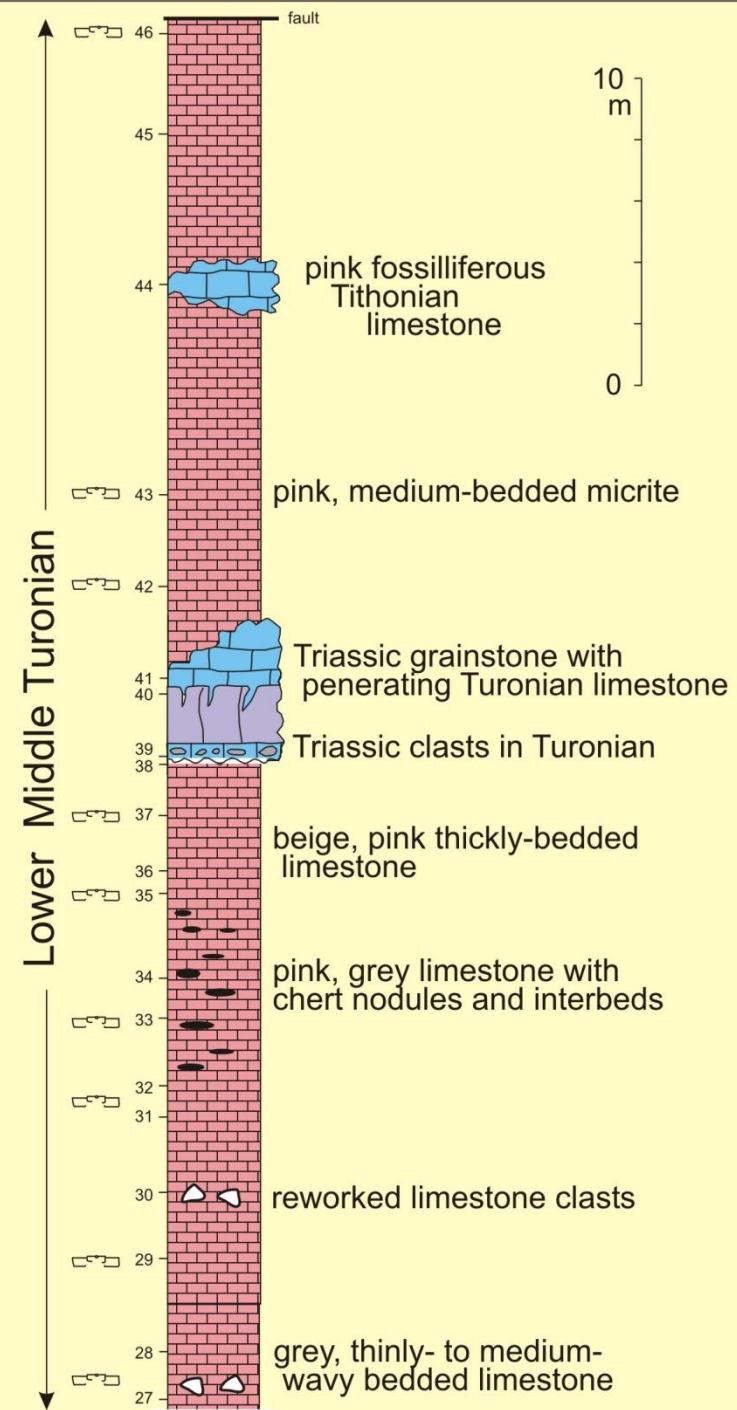
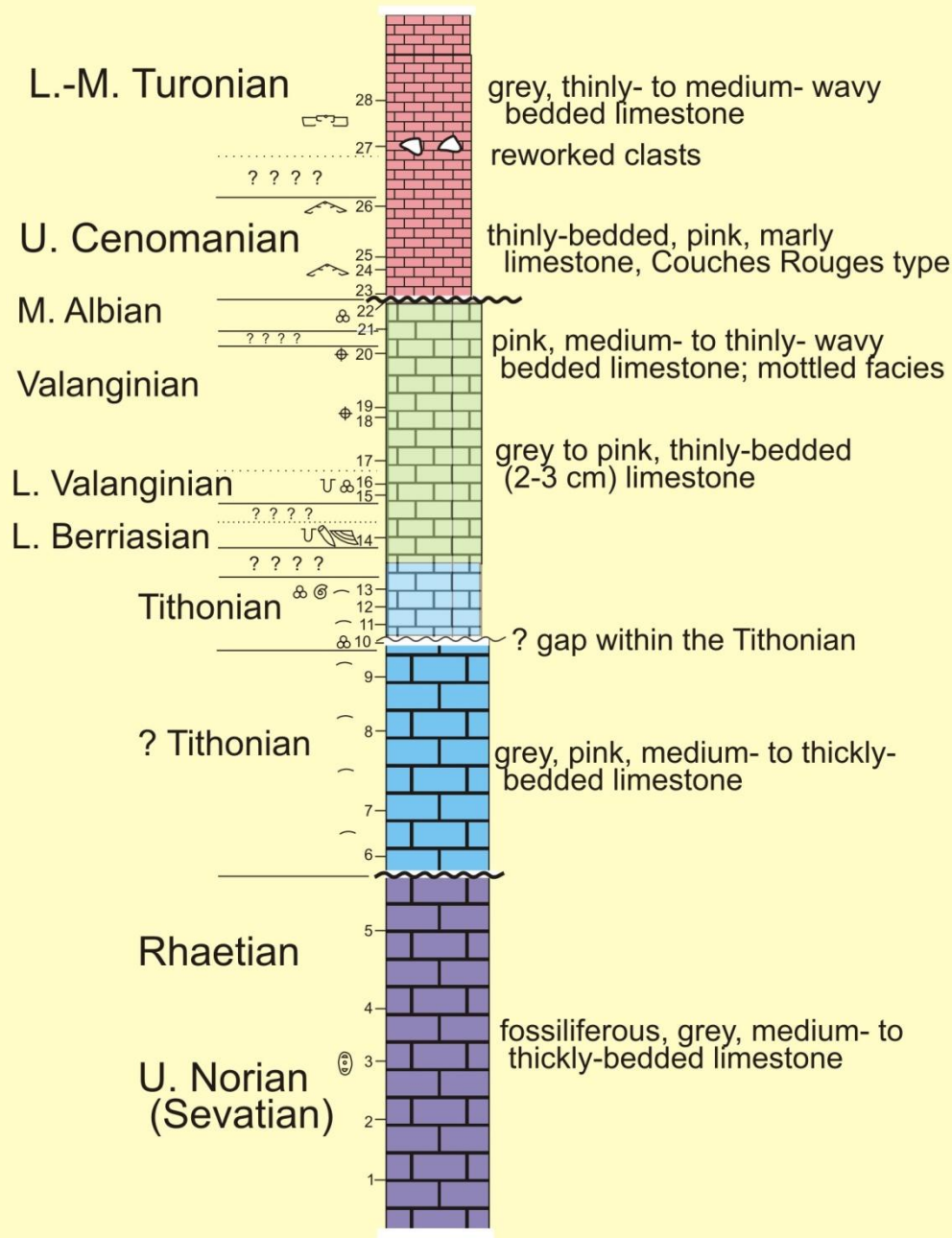
volcanic rocks

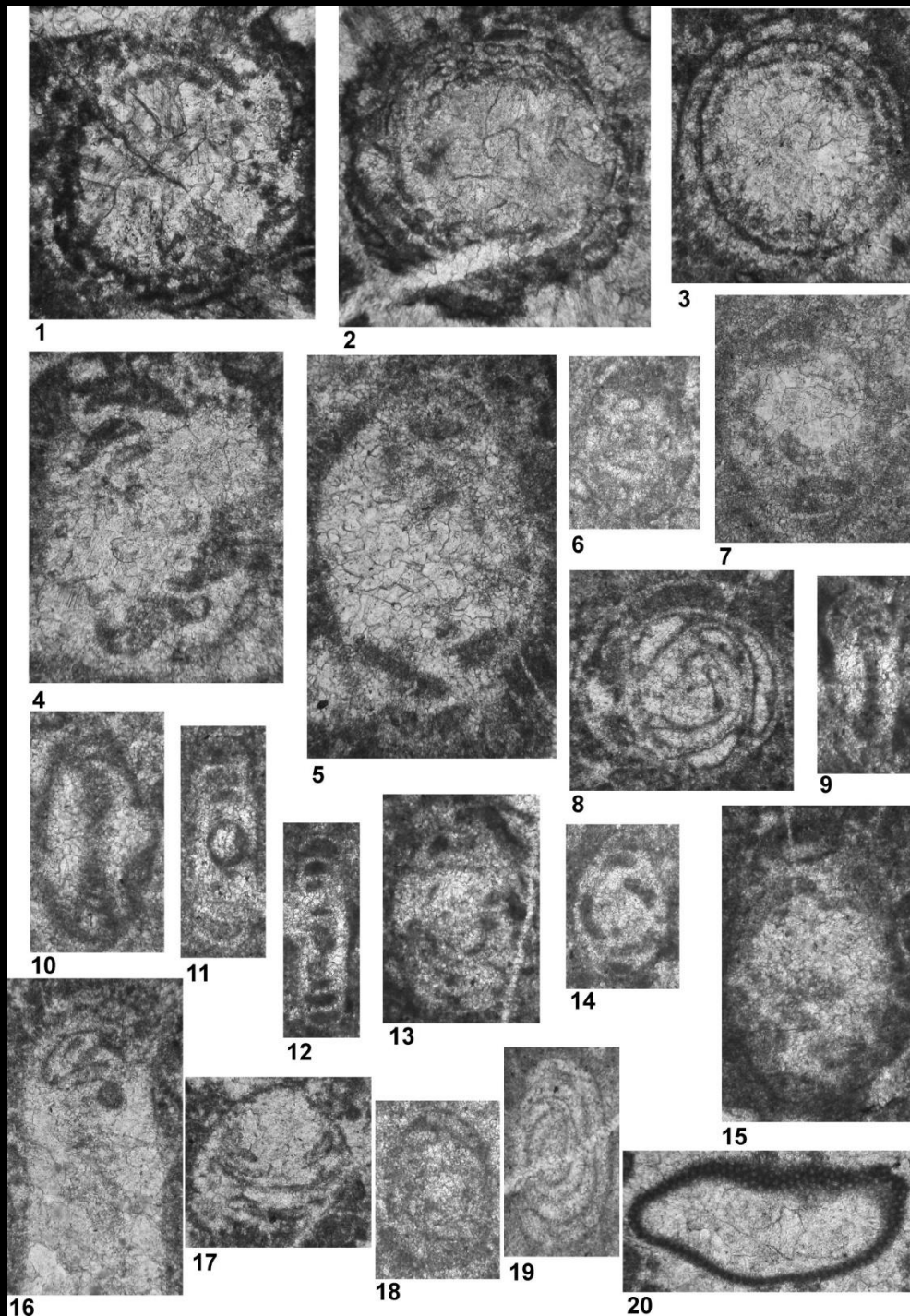


Upper Cretaceous
limestone

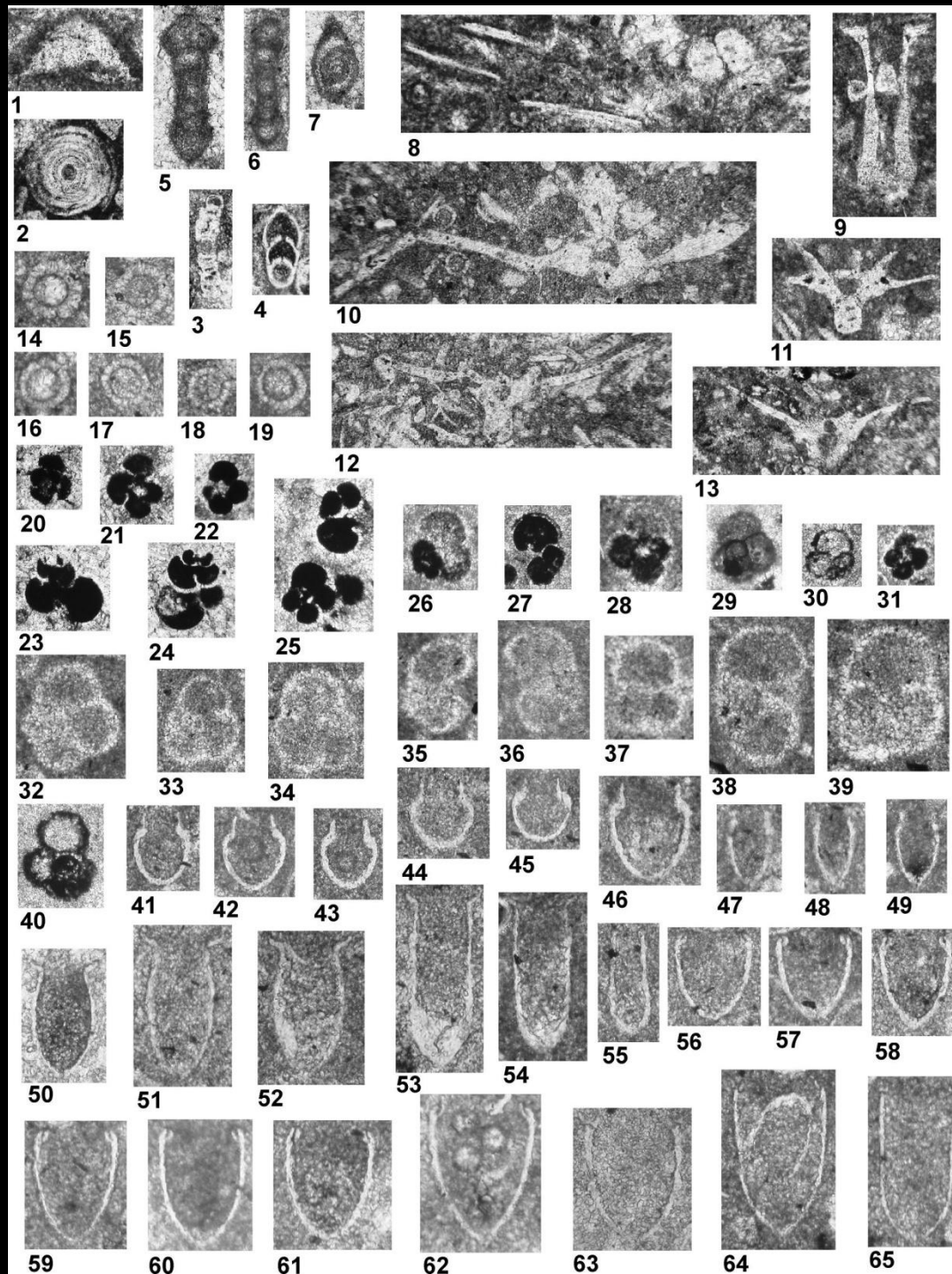
Triassic-Cretaceous

0 1 km

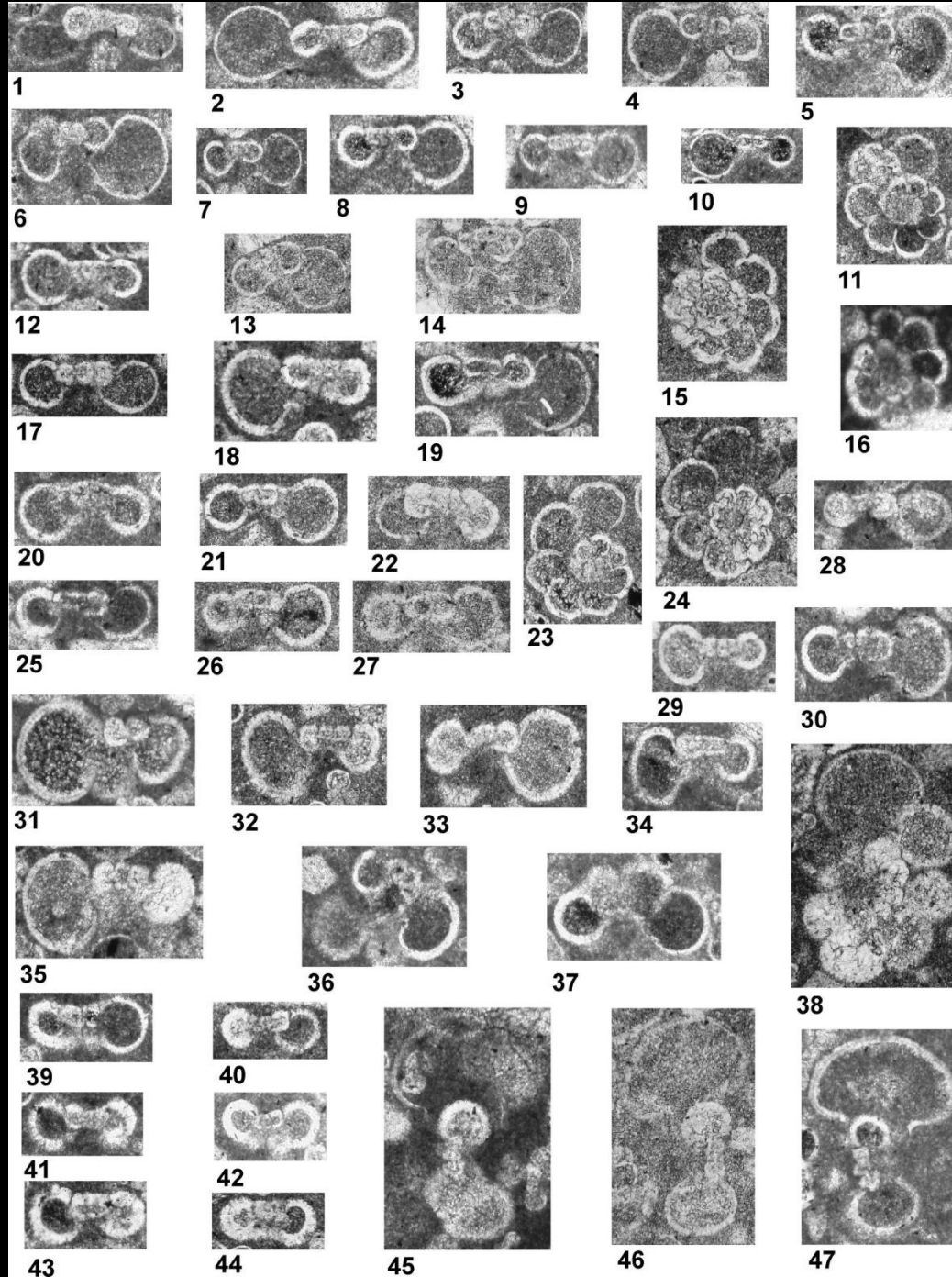




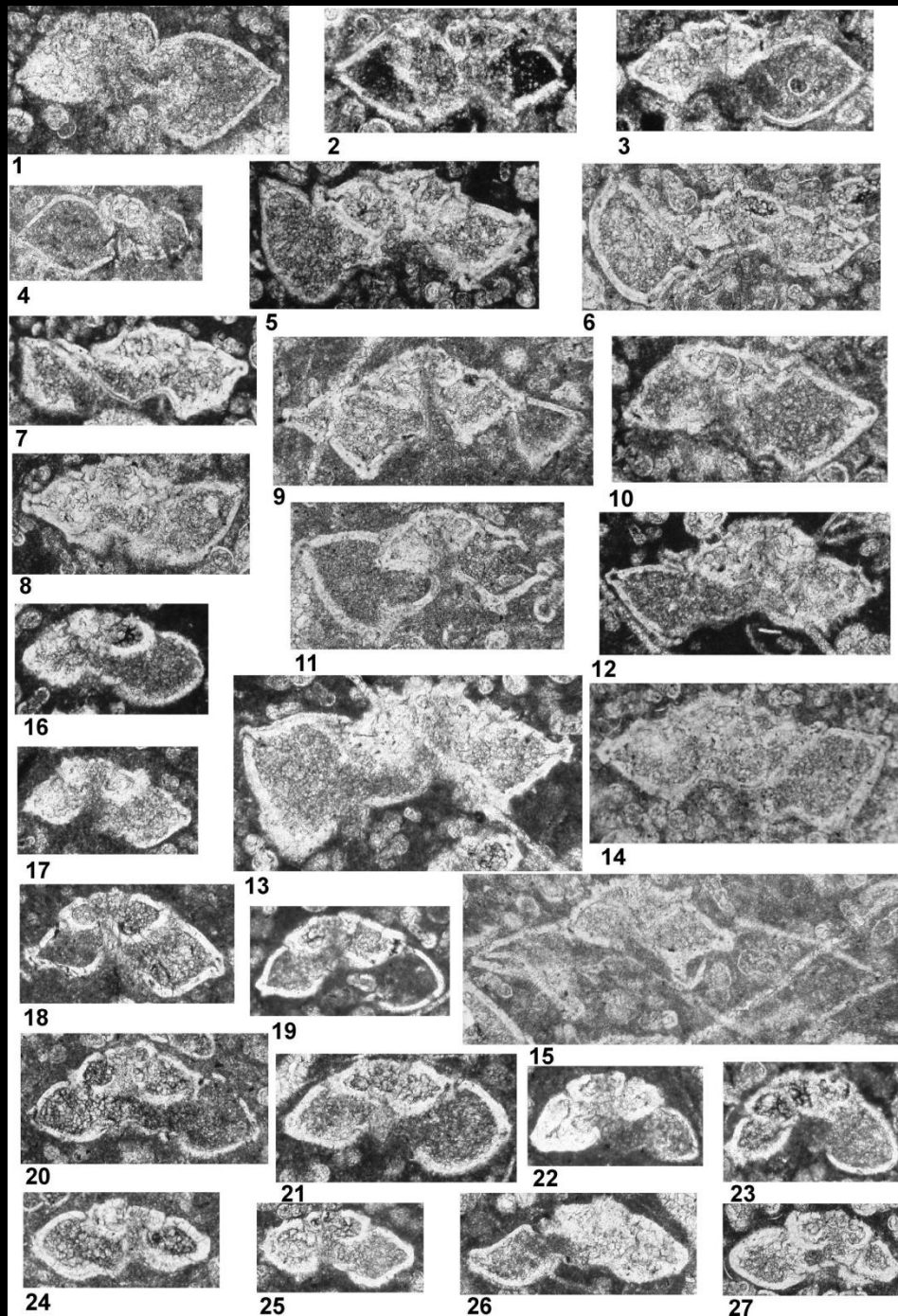
Upper Norian –
Rhaetian



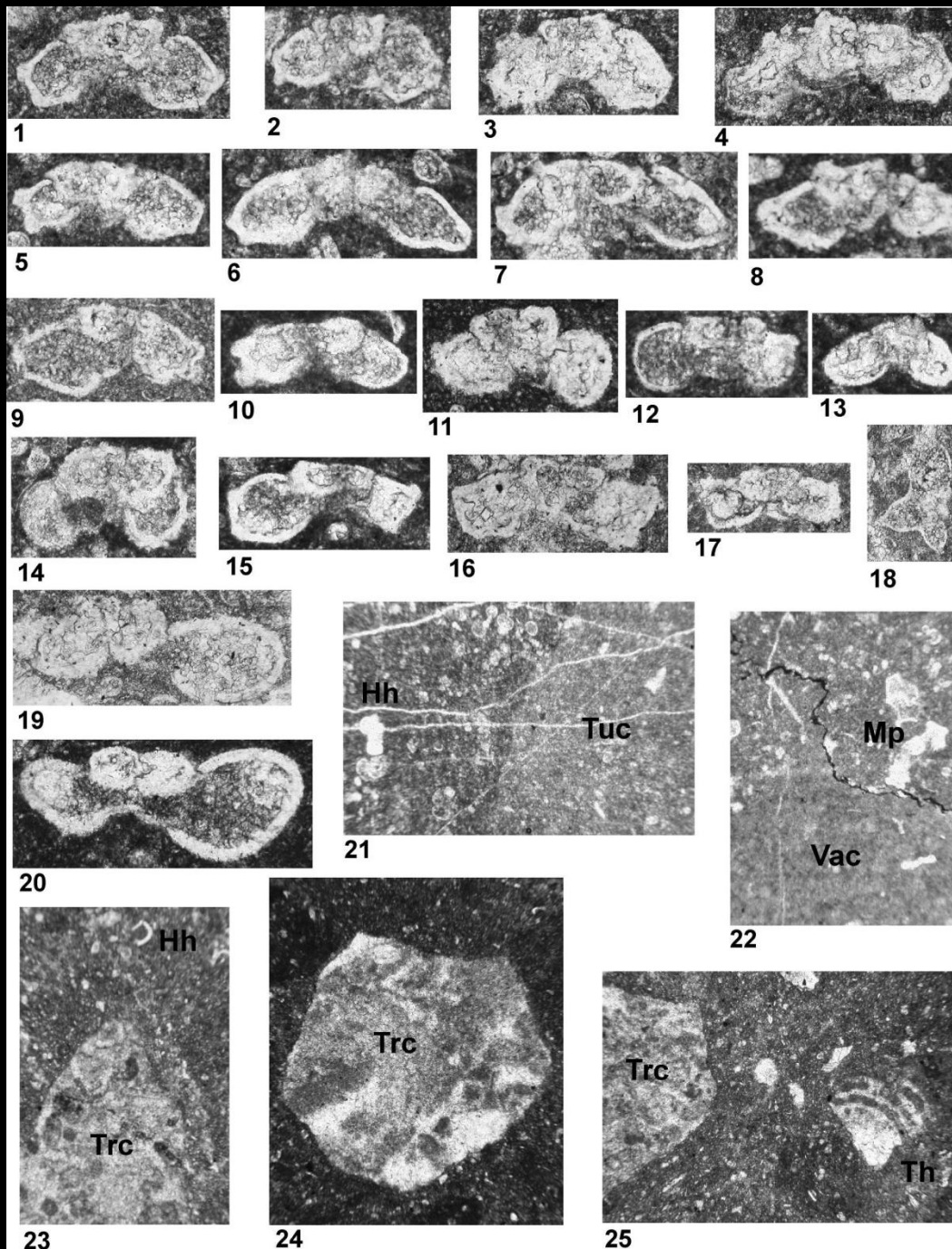
Tithonian –
Valanginian



Middle Albian



Upper Cenomanian



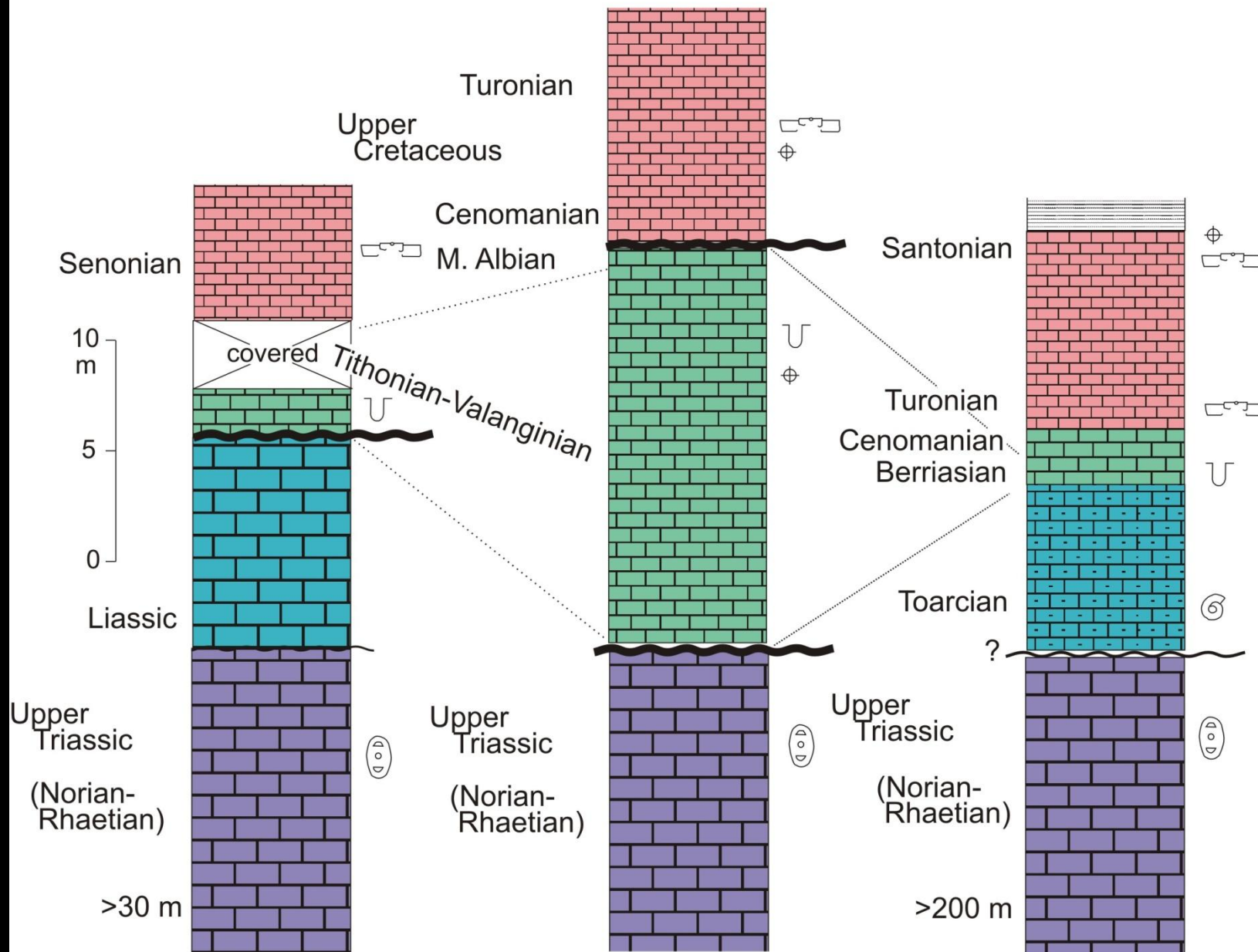
Lower-Middle Turonian



Domuzdağ,
Lycian nappes

Urbut,
Bornova Flysch
Zone

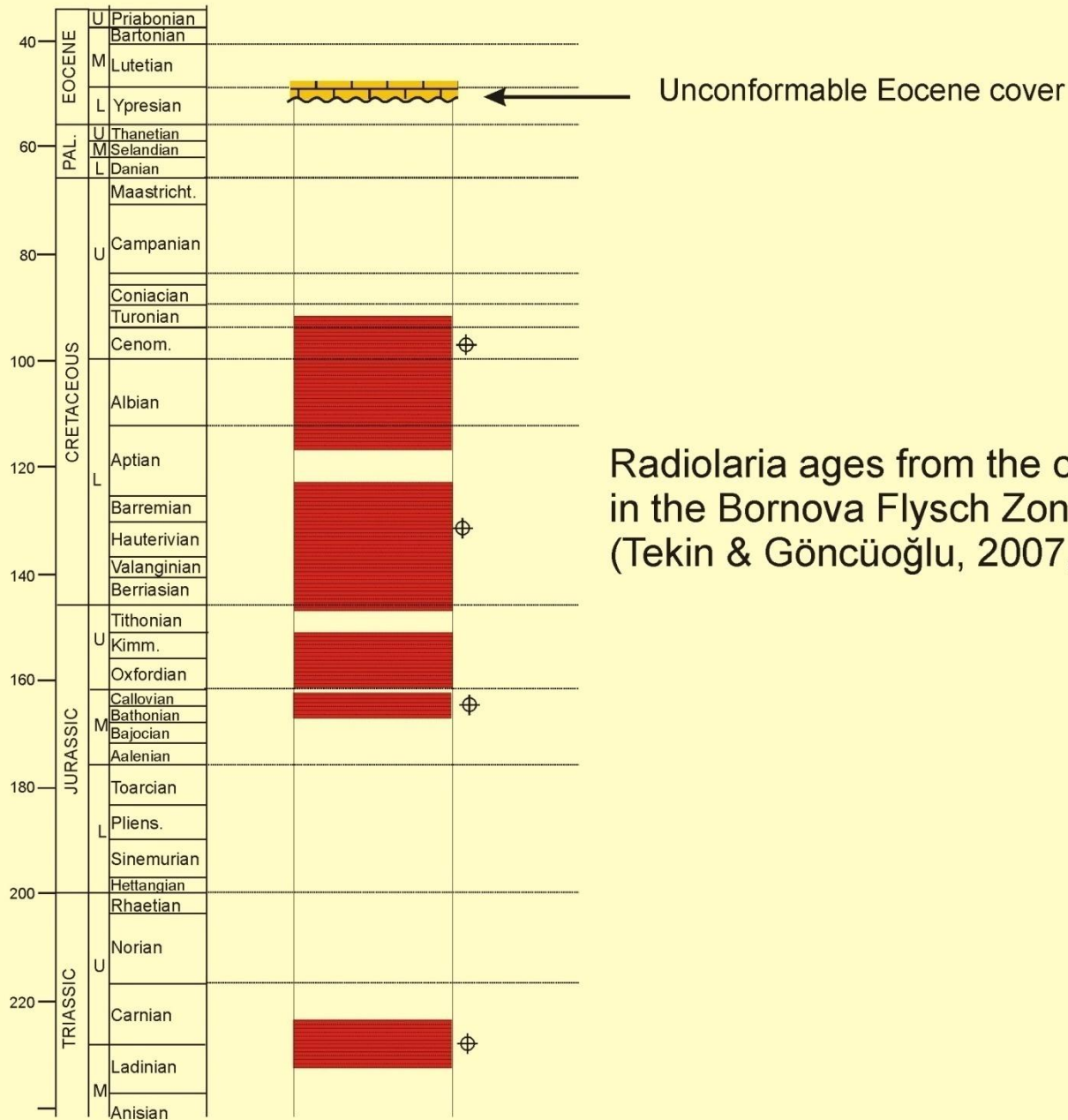
Boyalı Tepe unit,
Central Taurides



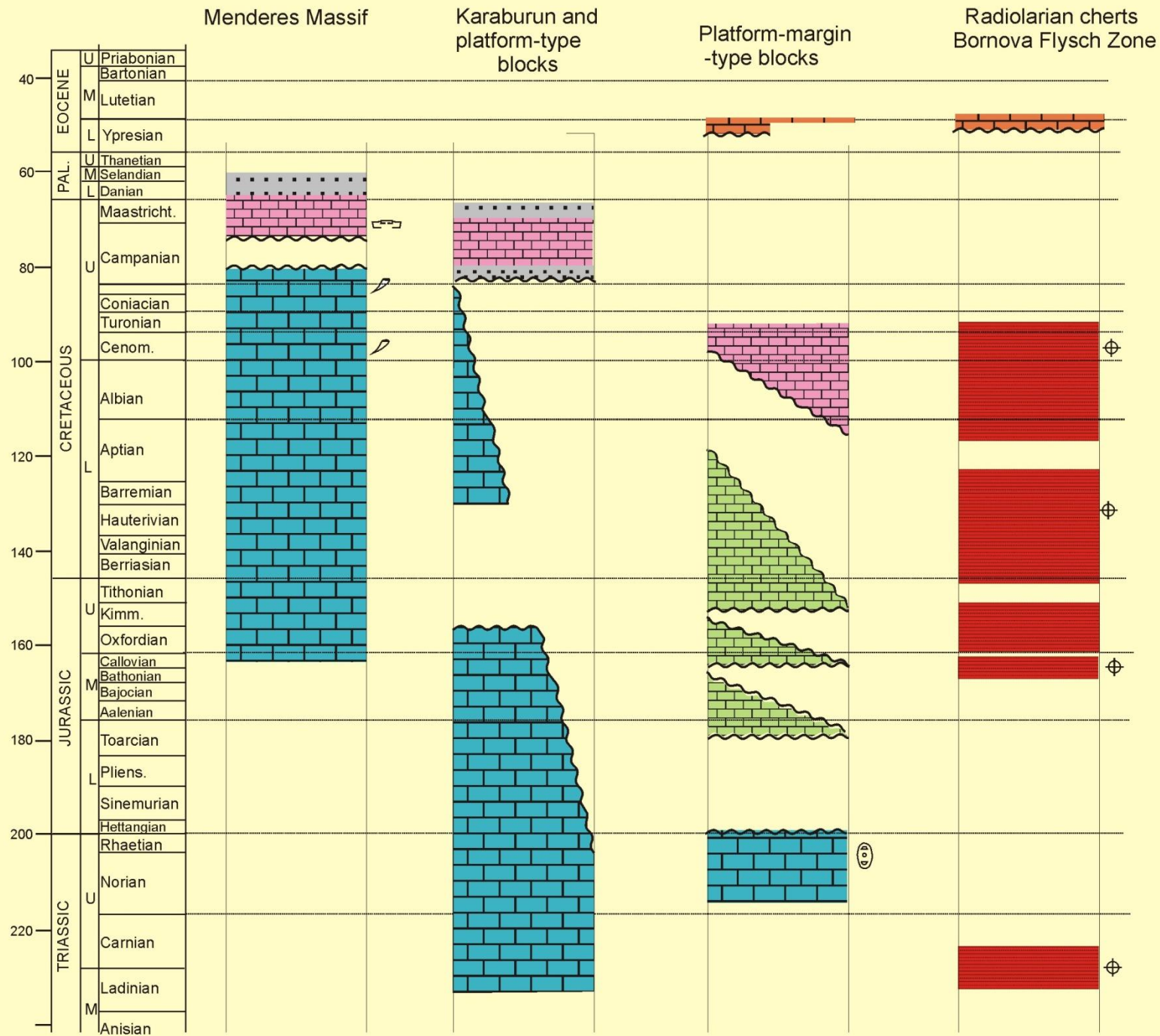


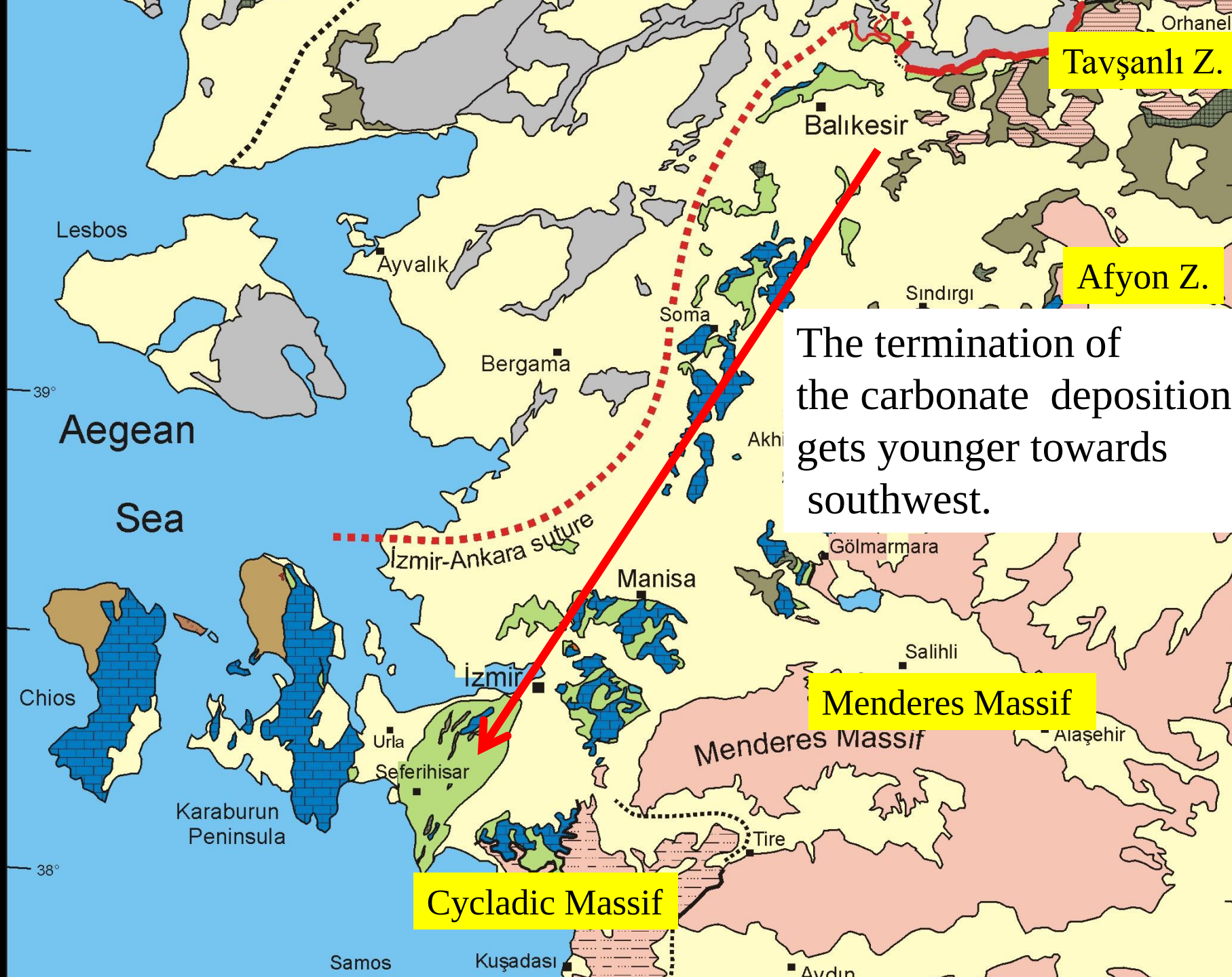






Radiolaria ages from the chert blocks
in the Bornova Flysch Zone
(Tekin & Göncüoğlu, 2007, 2009)





Tavşanlı Z.

Afyon Z.

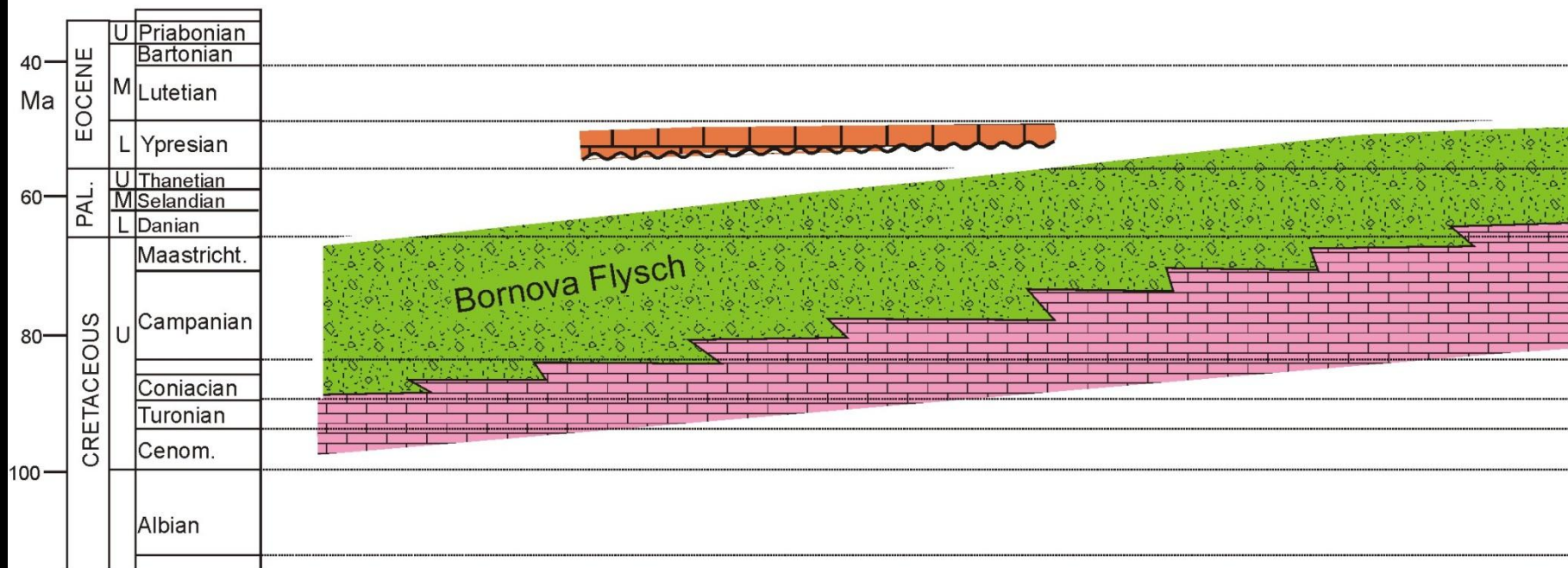
The termination of the carbonate deposition gets younger towards southwest.

Menderes Massif

Cycladic Massif

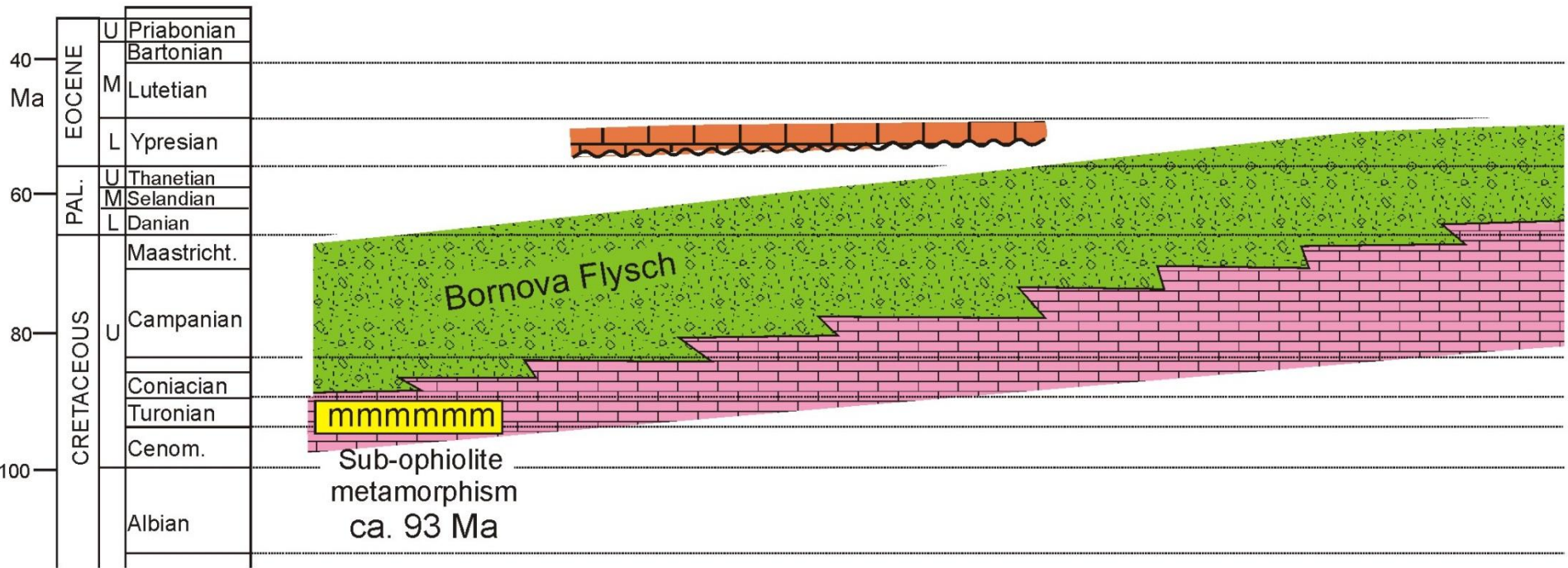
Northeast

Southwest



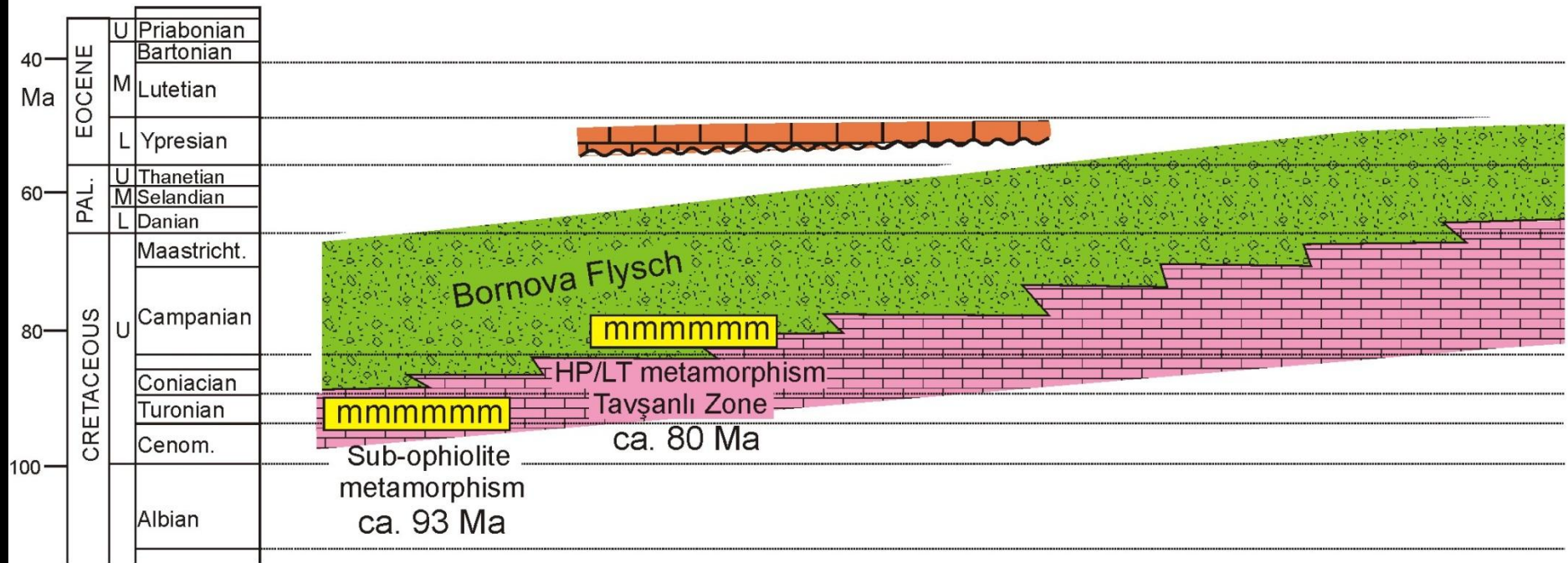
Northeast

Southwest



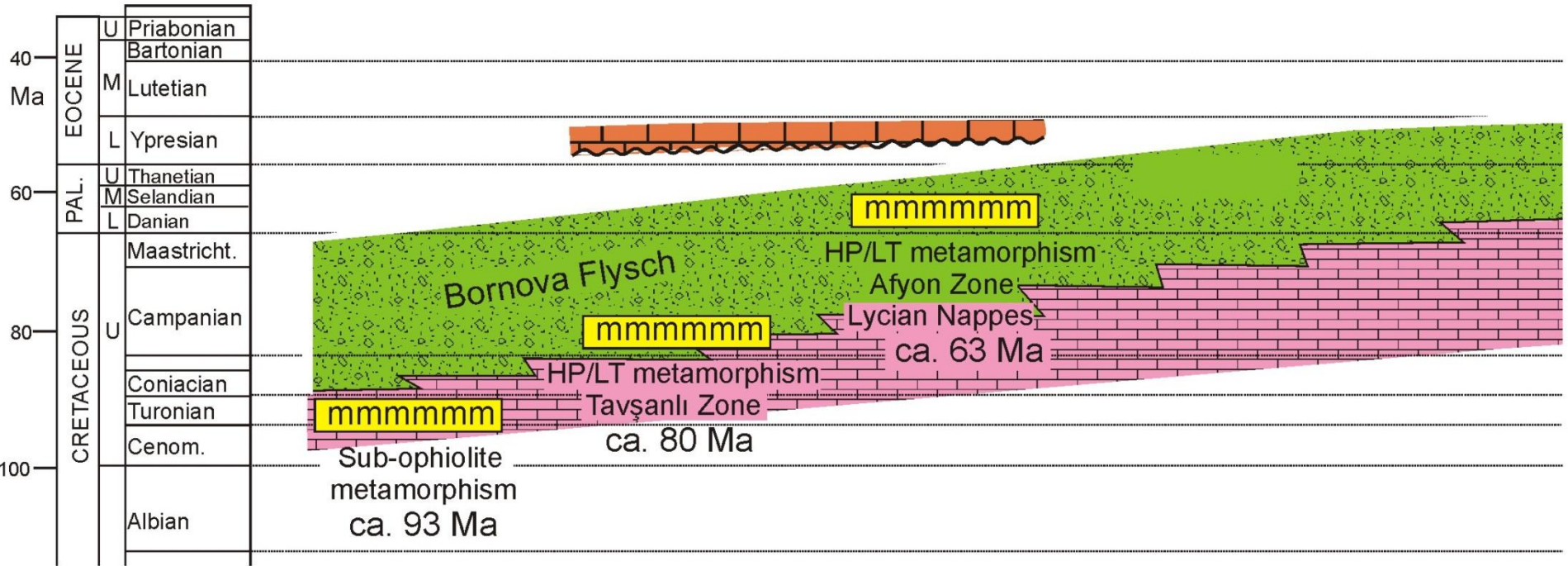
Northeast

Southwest



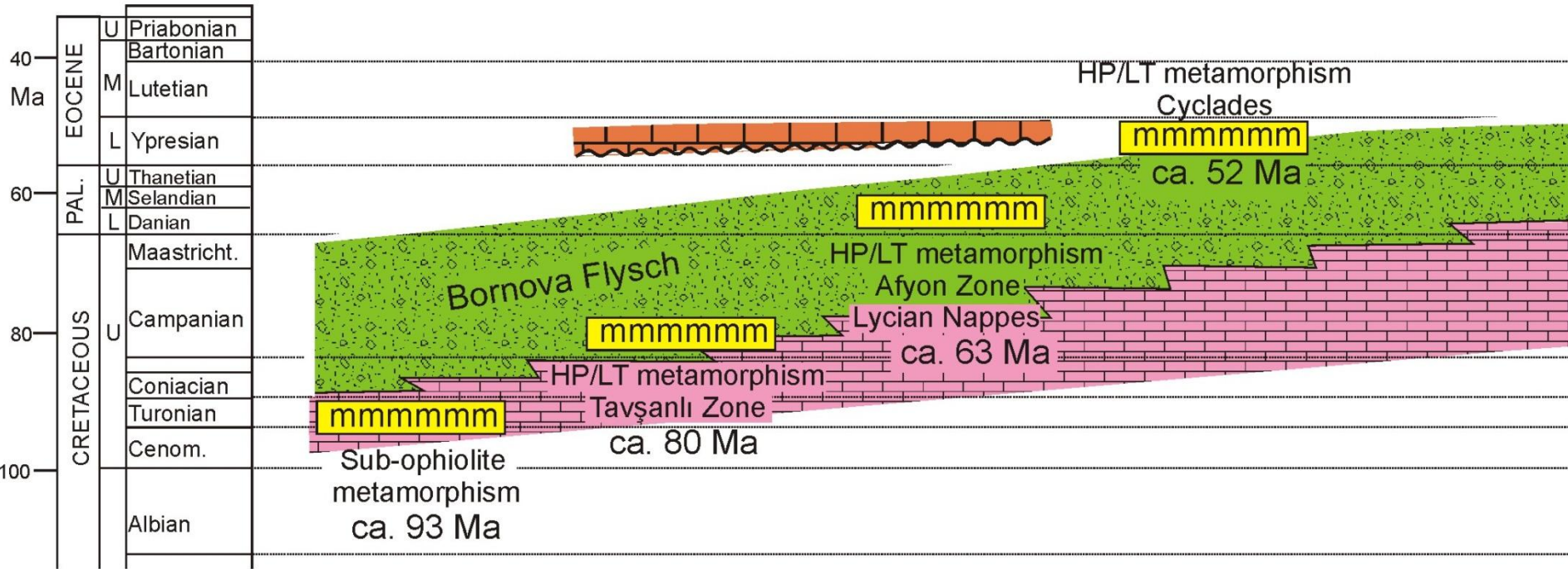
Northeast

Southwest



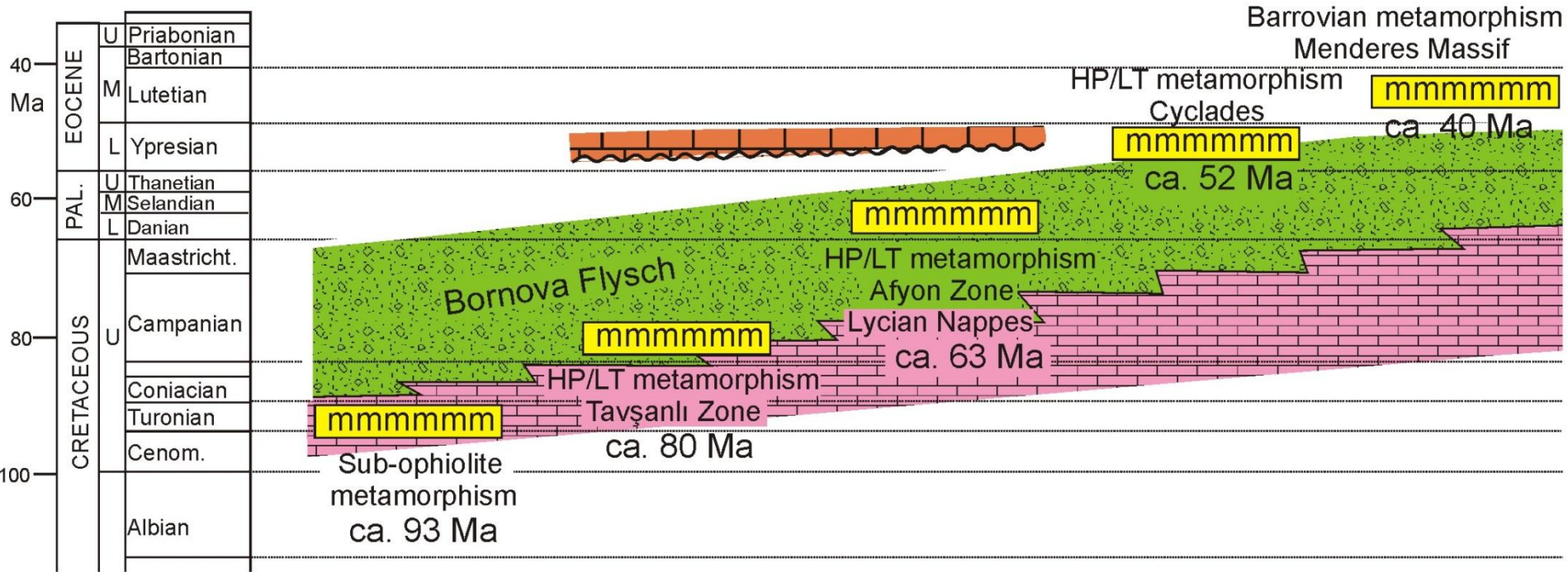
Northeast

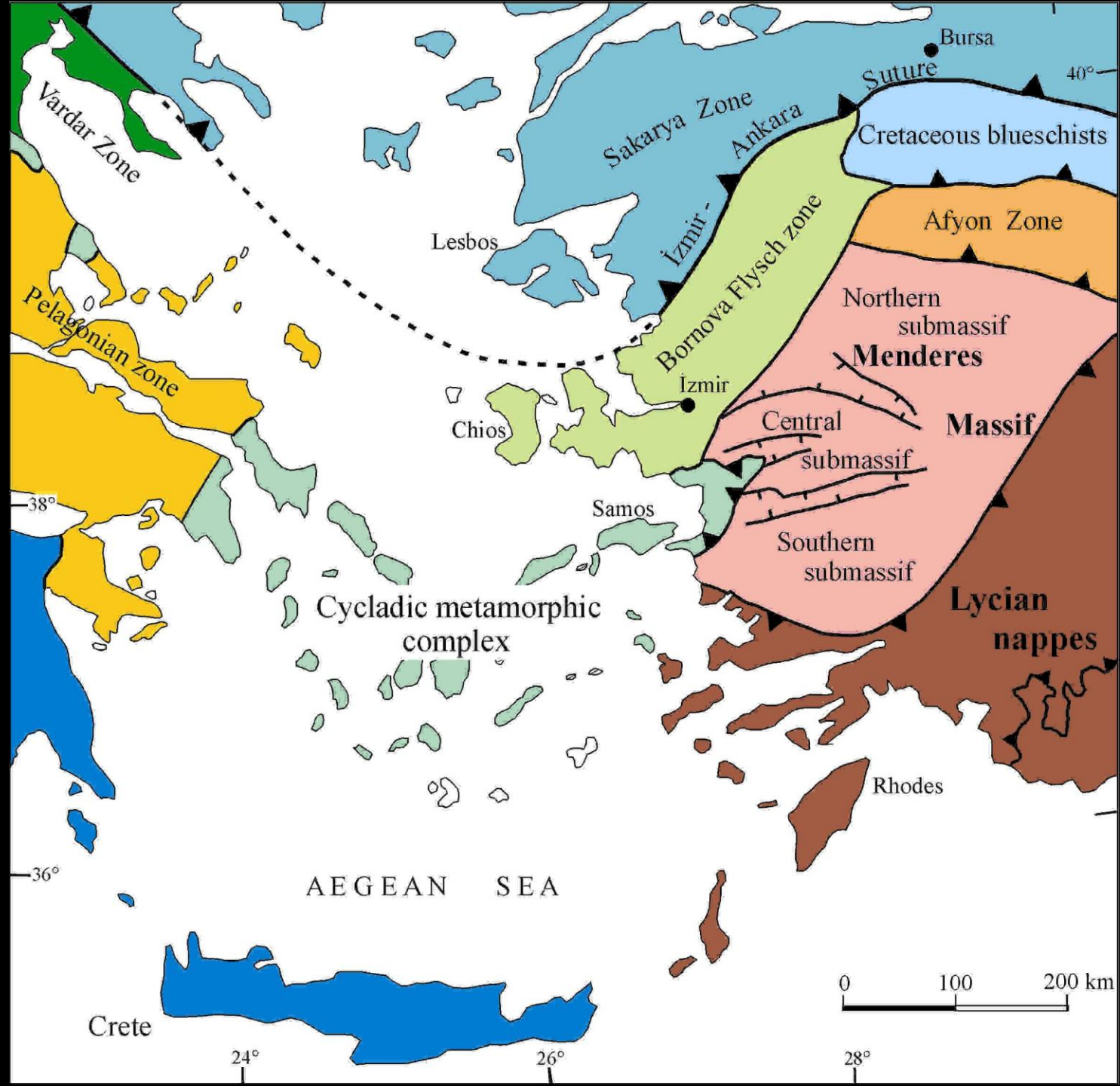
Southwest



Northeast

Southwest





Aptian

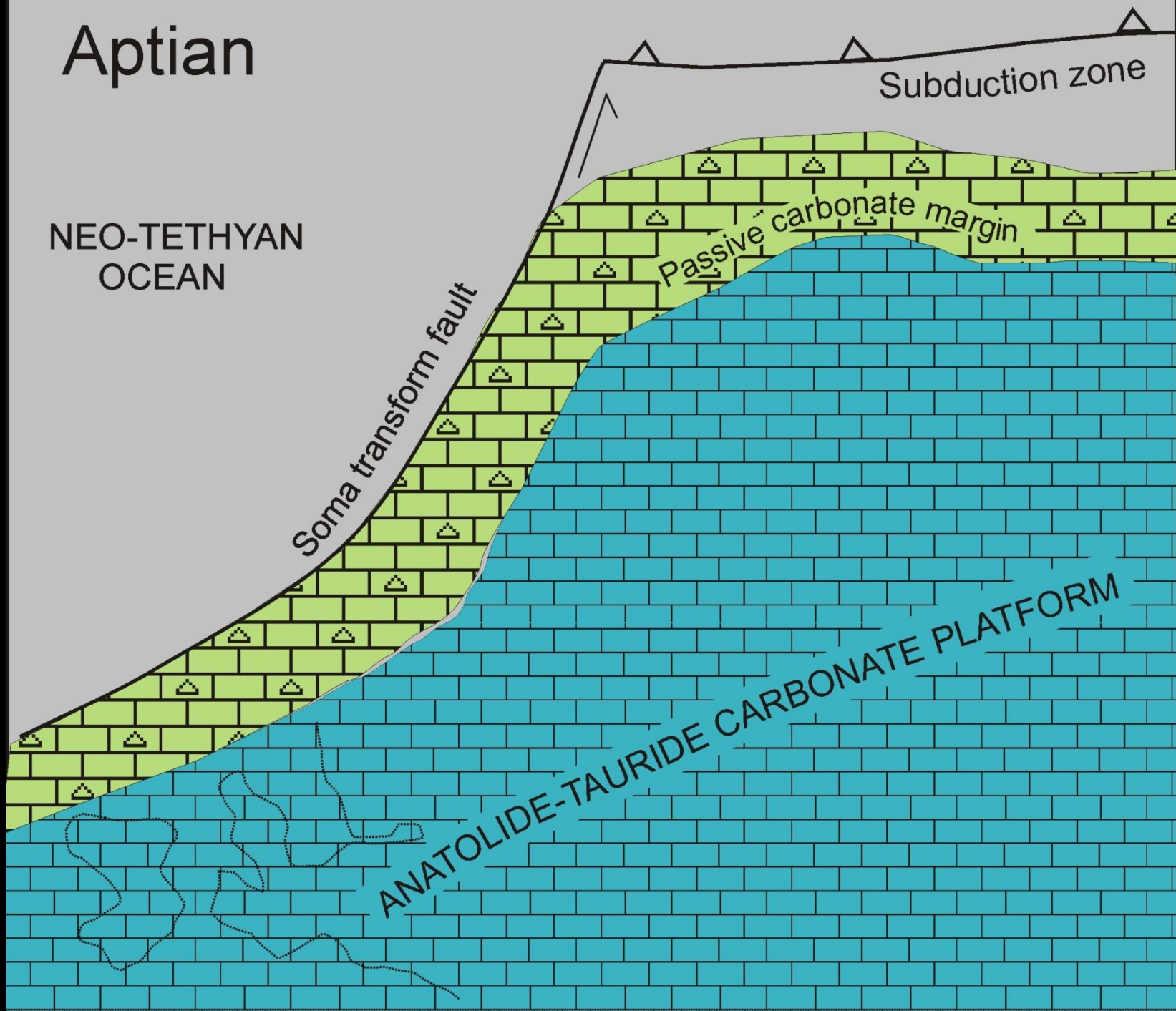
NEO-TETHYAN
OCEAN

Subduction zone

Soma transform fault

Passive carbonate margin

ANATOLIDE-TAURIDE CARBONATE PLATFORM



Campanian

NEO-TETHYAN
OCEAN

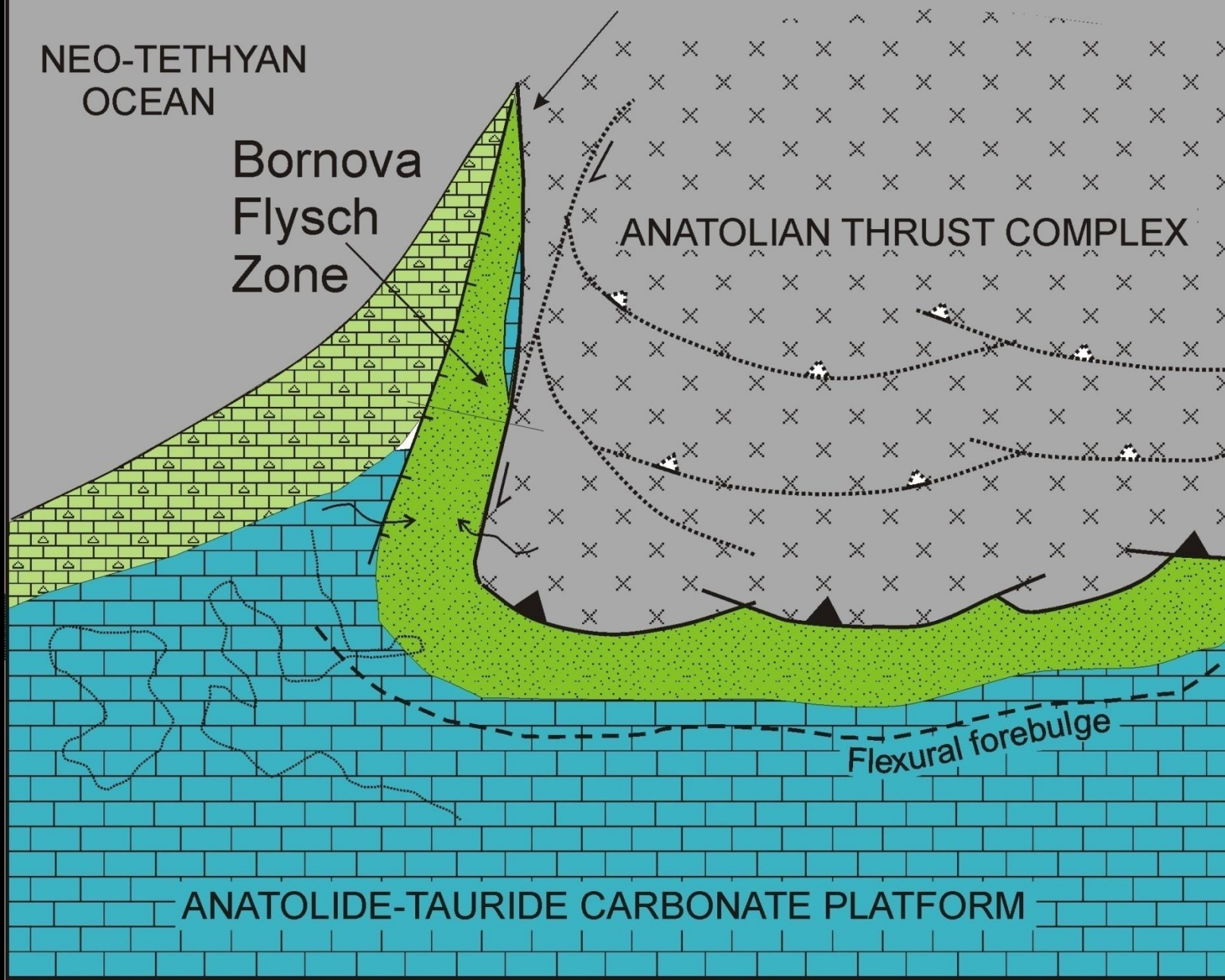
Bornova
Flysch
Zone

Bornova tear fault

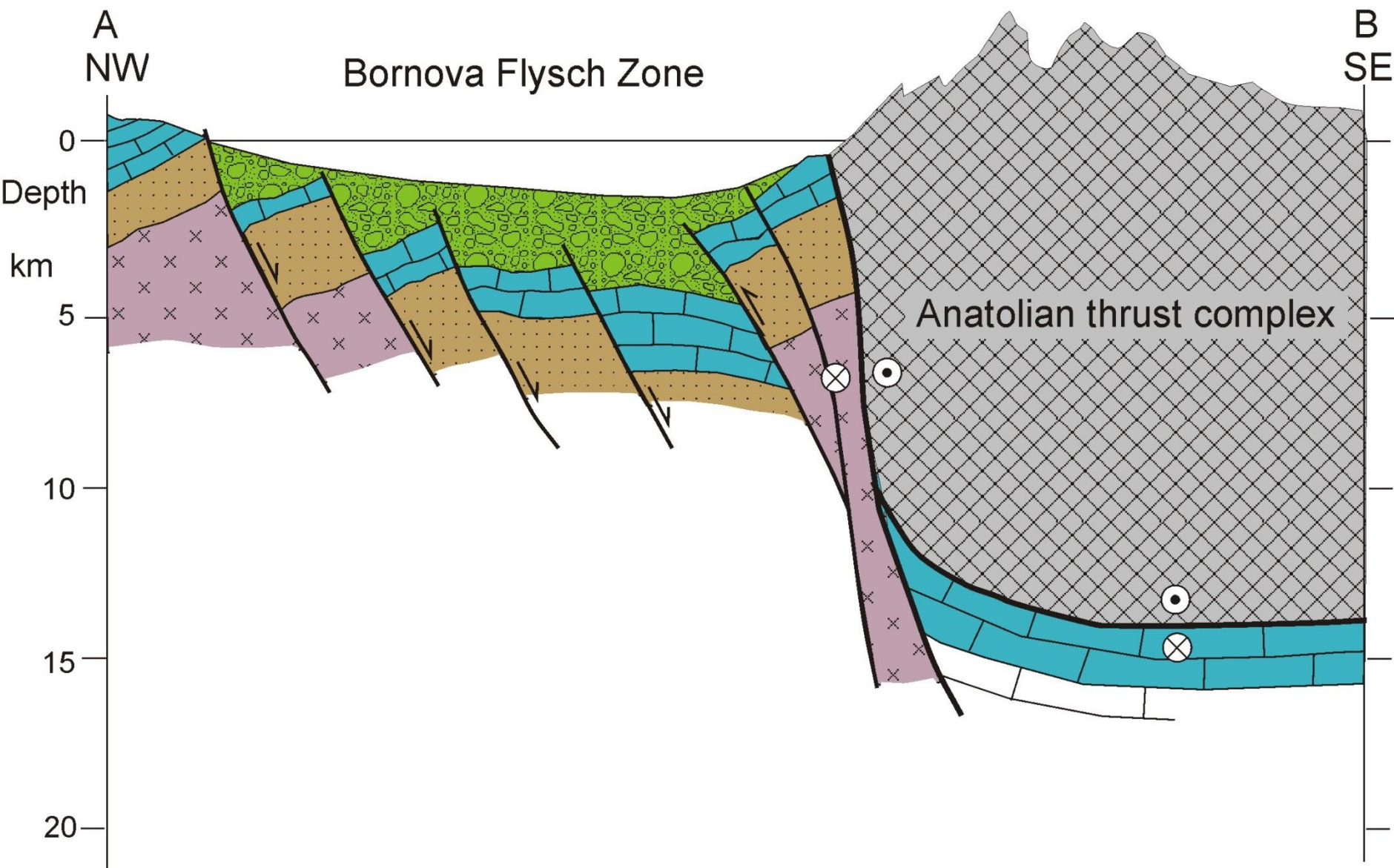
ANATOLIAN THRUST COMPLEX

Flexural forebulge

ANATOLIDE-TAURIDE CARBONATE PLATFORM



Campanian



NW

Bornova Flysch
Zone

Anatolian thrust
complex

SE

Neo-Tethyan
ocean

Campanian

Thrust front

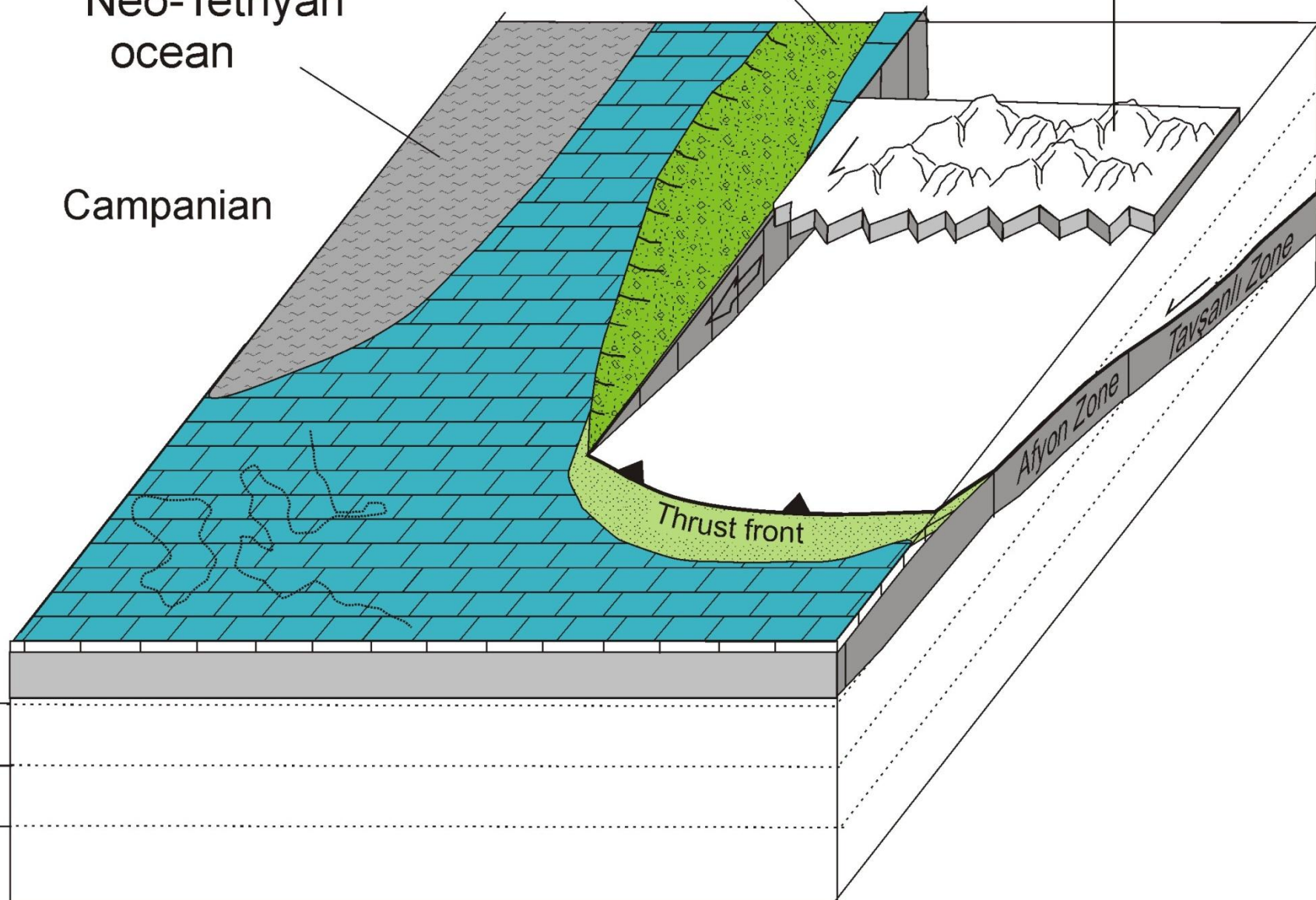
Afyon Zone
Tavşanlı Zone

Depth

40

80

km



Sonuçlar

1. Bornova Fliş Zonu (BFZ) sedimenter ve tektonik kökenli rejyonal bir olistostrom-melanj kuşağıdır.
2. BFZ içindeki bloklar başlıca Mesozoyik karbonat ve ofiyolitlerden oluşan bloklar Üst kretase-Paleosen yaşı bir hamur içinde yer alır. Karbonat blokları iki tiptir:
 - a) Karbonat platformu tipi
 - b) Karbanot platform yamacı tipi
3. BFZ güneybatıya doğru ilerleyen, kıtasal bir dalma-batma zonunun batı sınırını teşkil eden, litosferik ölçekte bir yırtılma fayının oluşturduğu bir havzada çökelmiş ve deforme olmuştur.