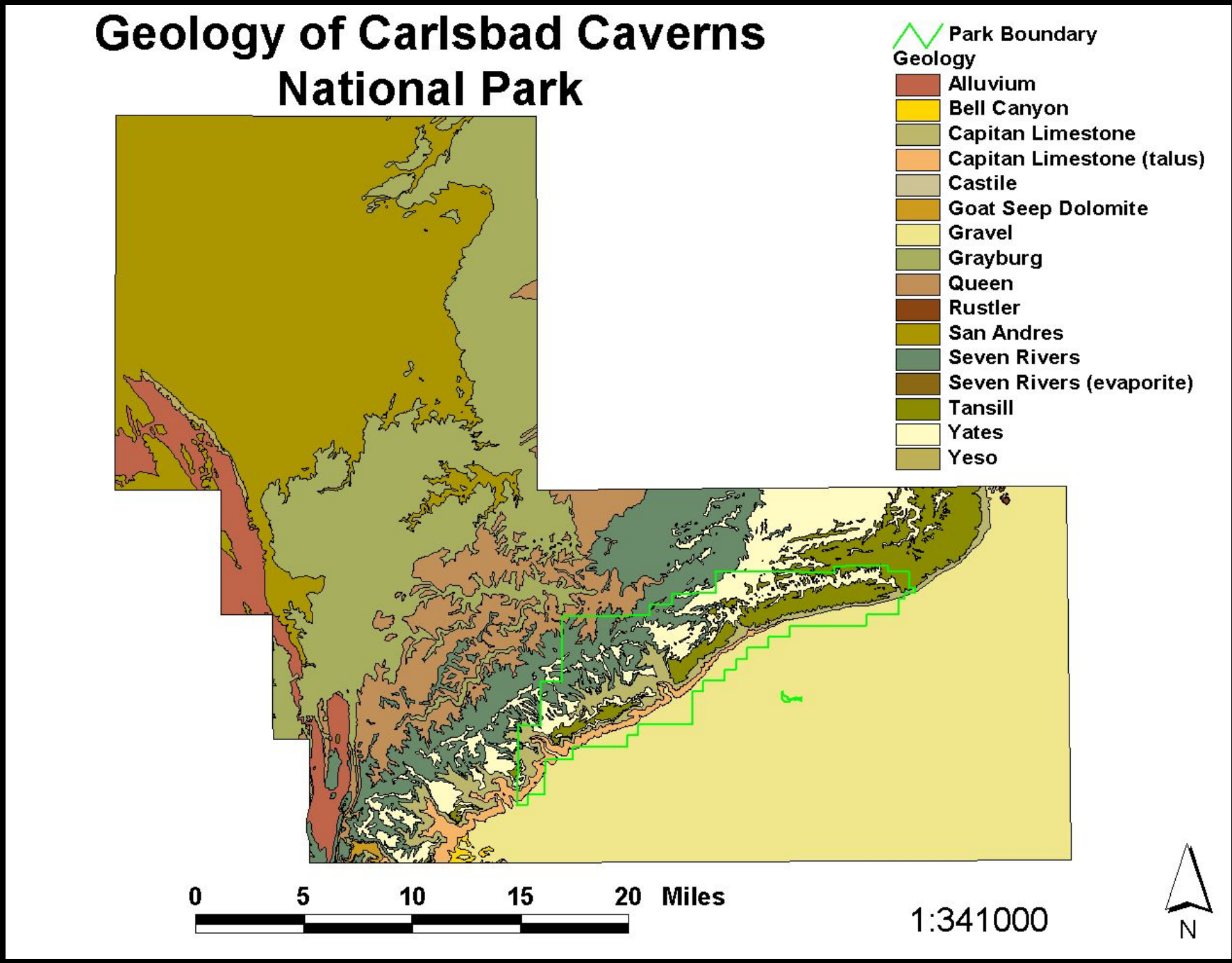
Geology of Carlsbad Caverns National Park
Park Boundary
Geology
Alluvium
Bell Canyon
Capitan Limestone
Capitan Limestone (talus)
Castile
Goat Seep Dolomite
Gravel
Grayburg
Queen
Rustler
San Andres
Seven Rivers
Seven Rivers (evaporite)
Tansill
Yates
Yeso
0 5 10 15 20 Miles
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Legend for Geologic Map of Carlsbad Caverns National Park

Alluvium: Quaternary terrestrial sediments eroded from the surrounding rocks.

Bell Canyon: Permian marine formation of sandstone, siltstone, and some limestone; it extends from the reef margin into the basin (forereef - basin).

Capitan Limestone: Permian marine limestone formation composed of reef deposits and abundant marine fossils (reef).

Capitan Limestone talus: Permian marine limestone formation composed of reef deposit breakdown that has slid off the shelf towards the basin (reef - forereef).

Castile: Permian evaporite formation of layered gypsum, anhydrite, and halite.

Goat Seep Dolomite: Permian dolotomized limestone composed of abundant fossils; beginning of reef building (forereef).

Gravel: Quaternary terrestrial gravel layer of sediment covering the Castile Formation in the basin.

Grayburg: Permian marine dolomite and sandstone layers composed of fossils (beginning of reef).

Queen: Permian marine dolomite and sandstone layers composed of fossils; it also contains ripple marks and channels suggesting shallow water levels (backreef).

Rustler: Late Permian marine formation of dolomite, siltstone, anhydrite, and halite; deposited as sea level lowered.

San Andres: Early Permian marine formation of dolomite and chert deposited as sea level began to rise (beginning of reef).

Seven Rivers: Permian shallow marine formation of sandstone and mudstone (backreef).

Seven Rivers evaporite: Permian shallow marine formation of gypsum (backreef).

Tansill: Permian shallow marine formation of dolomite, gypsum, red clay, and silt (reef - backreef).

Yates: Permian shallow marine formation of sandstone, siltstone, dolomite, gypsum, and red clay (backreef).

Yeso: Early Permian shallow marine formation of shale, sandstone, and limestone (shelf).

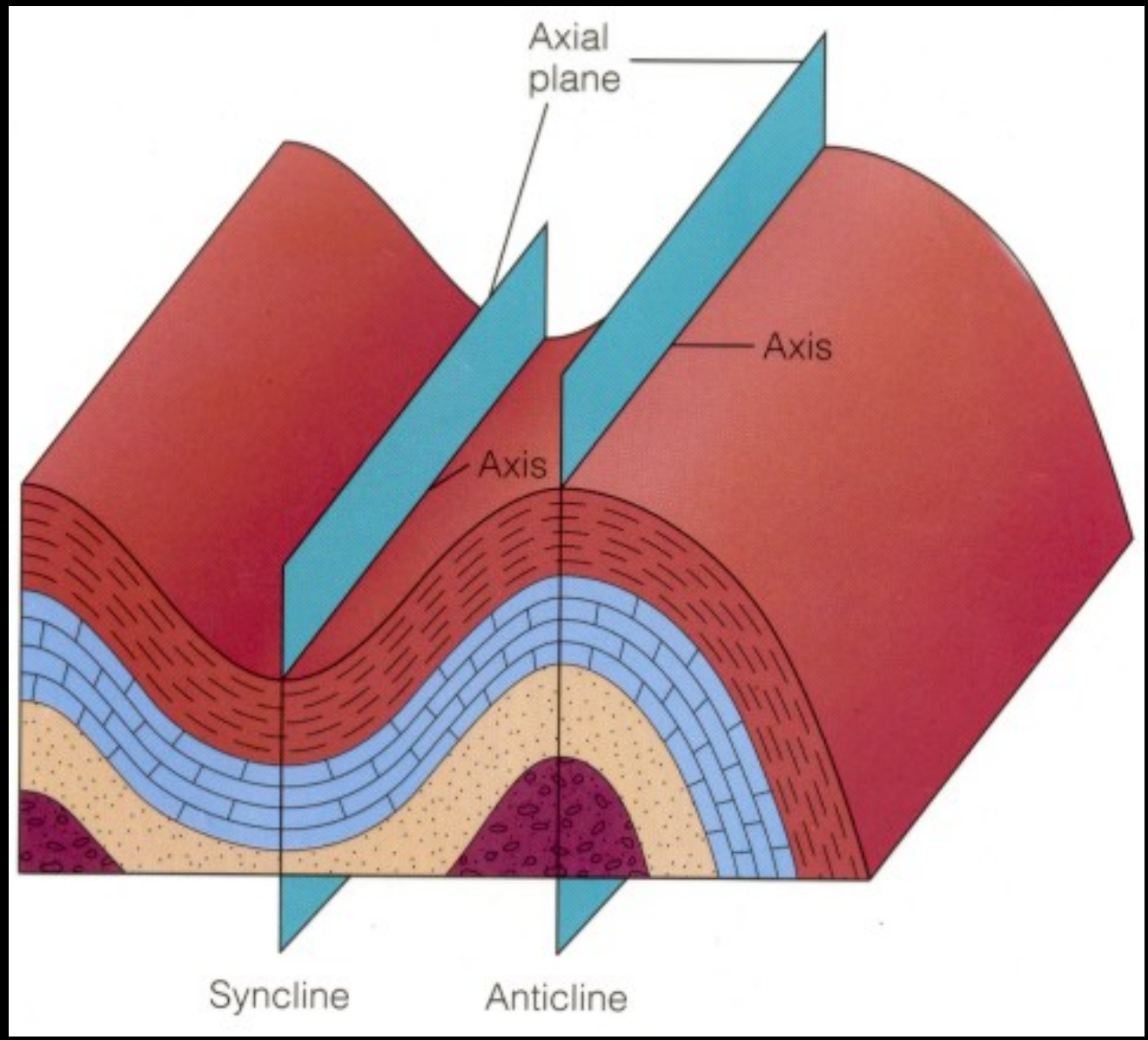
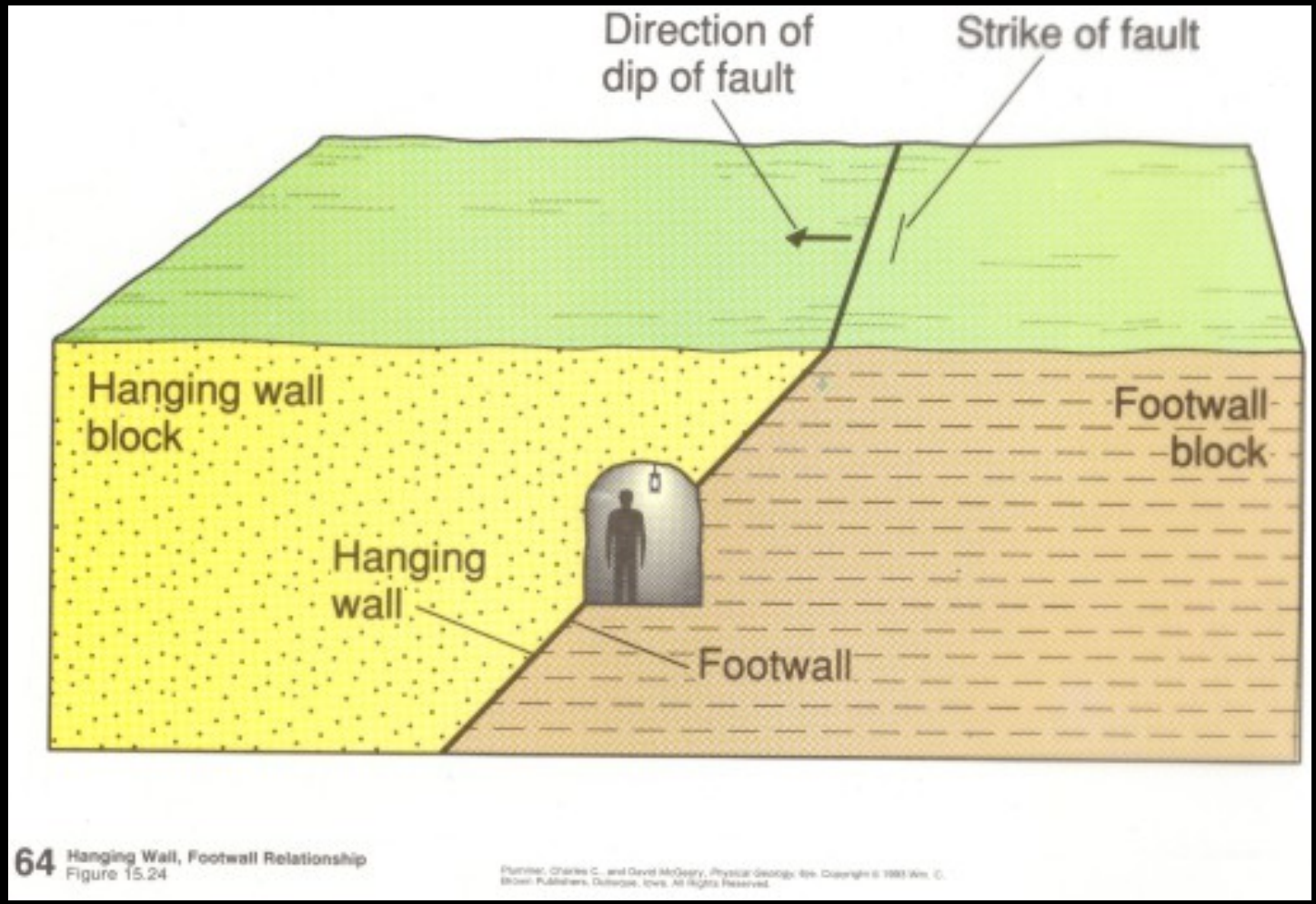


Image from American River College Geology web page:
http://www.arc.losrios.cc.ca.us/~borougt/GeologicStructuresDiagrams.htm



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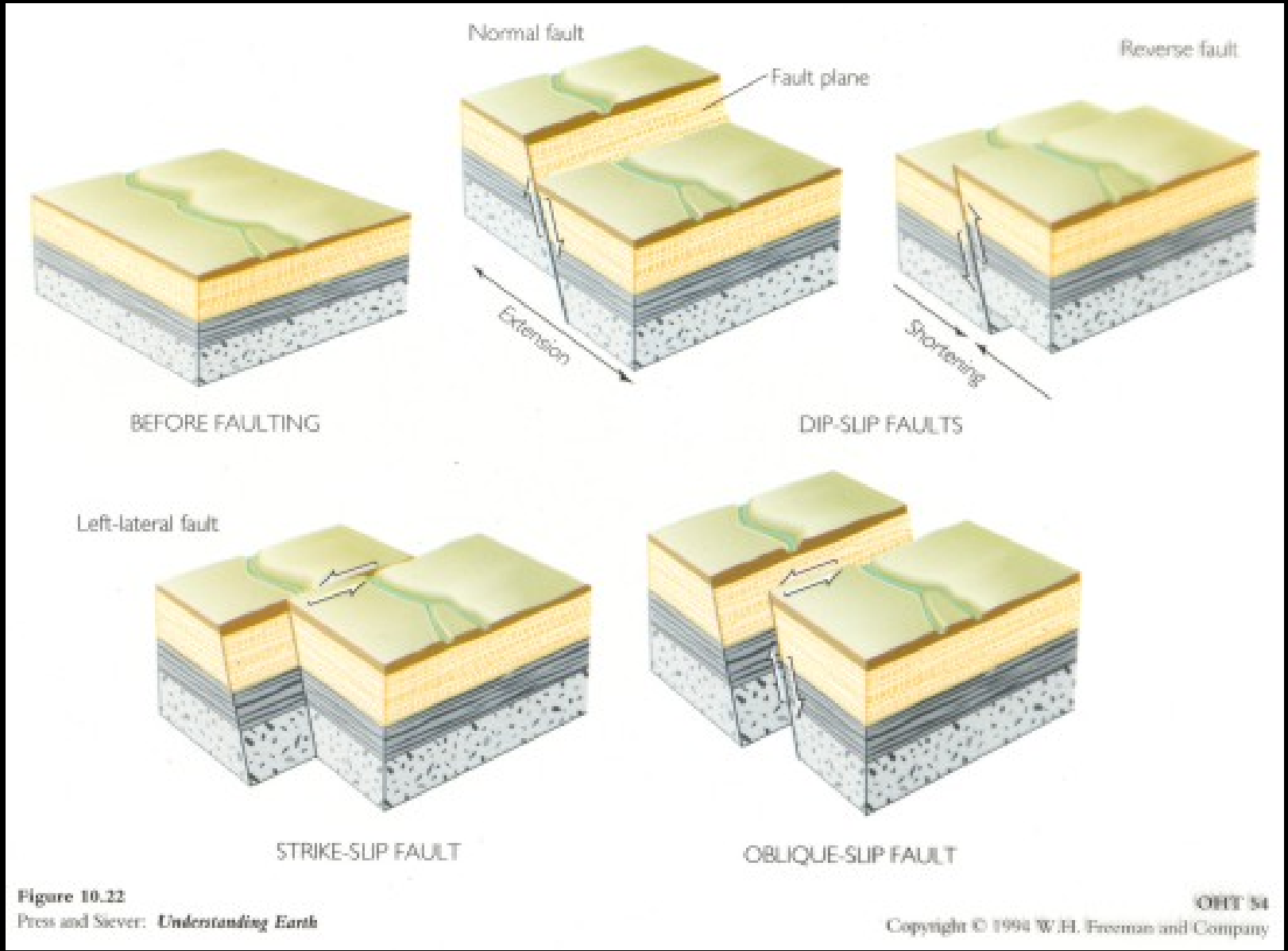

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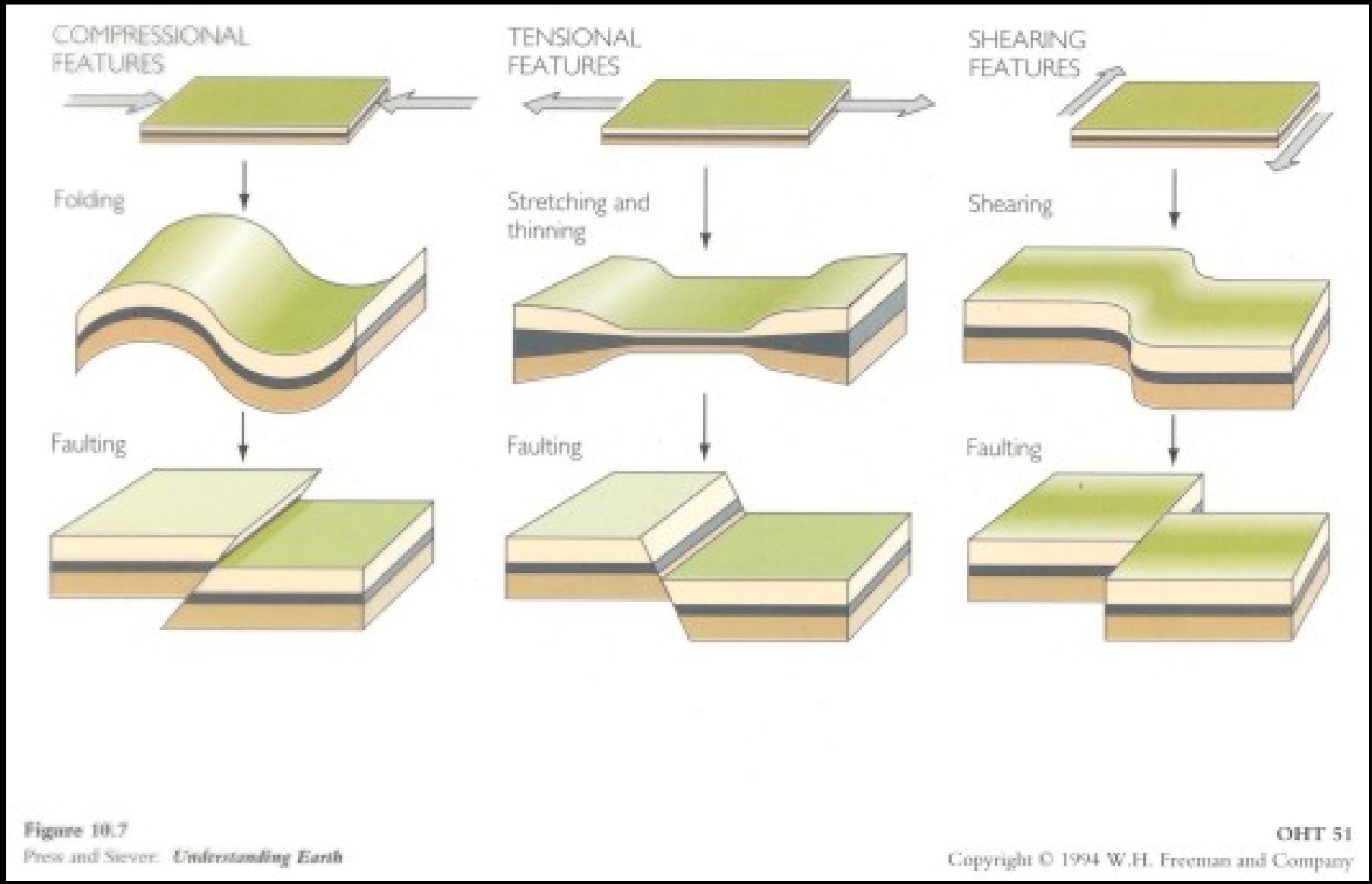

Figure 10.7
Press and Siever. *Understanding Earth*

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Image from American River College Geology web page:
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