

### Illustration widths/depths

Full width = 6.5" x 8" (max depth)  
 1 column = 3" x 8" (max depth)"  
 1 1/2 column = 4.5" x 8" (max depth)  
 Landscape = 9" x 6" (max depth)

*Draw illustrations at 100% when ever possible*

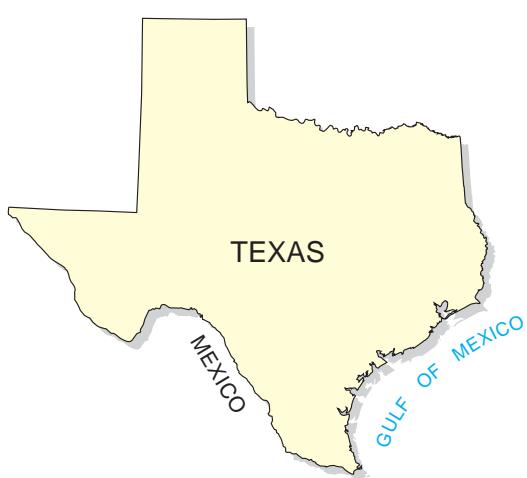
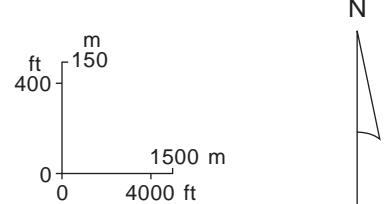
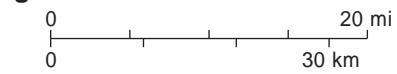
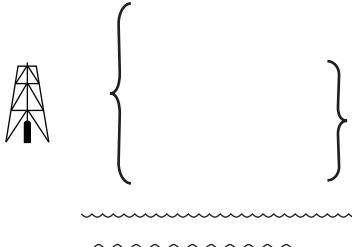
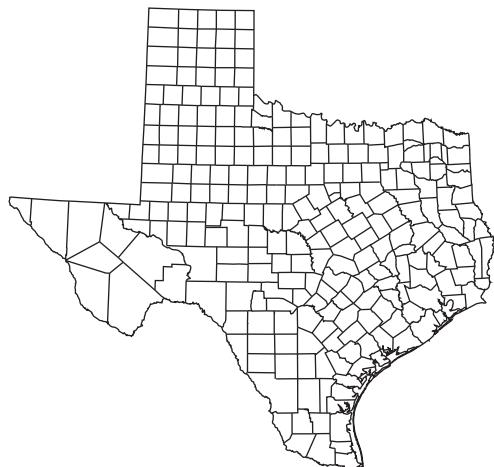
### Standard font and font size

Ariel 8 pt regular

County names - Caps/lower case

STATE NAMES - Caps

### Map elements and lines weights



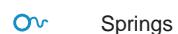
### Map symbols

- Oil
- ★ Gas
- ★ Oil and Gas
- ◇ Dry hole
- △ Service well or suspended
- ✗ Abandoned producer
- ✗ Temporarily abandoned producer
- ✗ Injection well
- ✗ Deviated well
- Location
- Platform
- Recompletion
- ◇ Miscellaneous

----- Contact. Dashed where approximate; dotted where covered; ? indicates approximate contact queried

— — — U D — — Normal fault. U, upthrown block; D, downthrown block; dashed where approximate; dotted where covered; ? indicates approximate fault queried

— + — Monocline, approximate. Small faults and joints may occur along monocline hinge.



— 1000 — Contour line. Contour interval 100 ft

— Stream

— - - - Intermittent stream



Normal pool elevation of Lake Travis (681 ft)

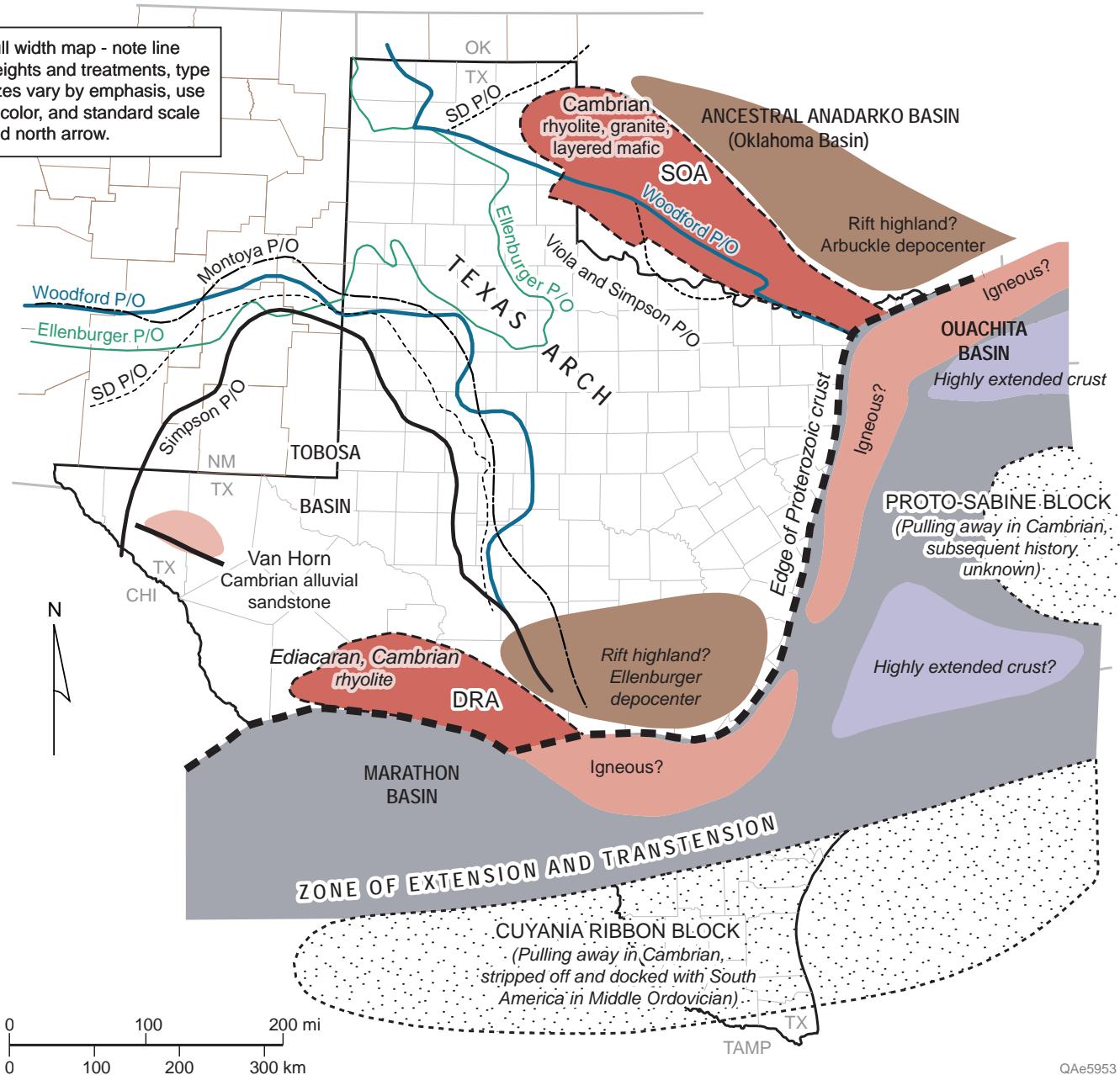


Pond or tank

— Road

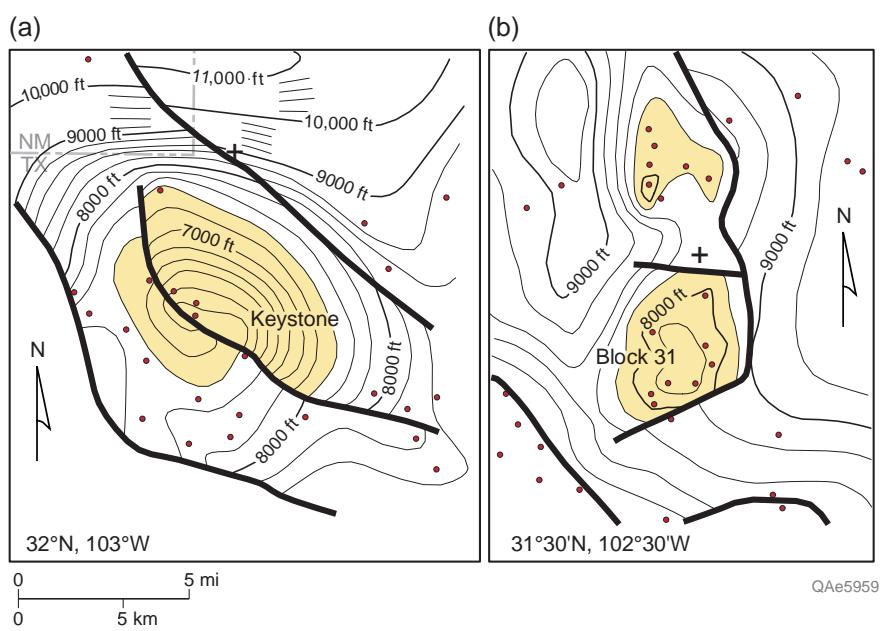
— - - - Pipeline

Full width map - note line weights and treatments, type sizes vary by emphasis, use of color, and standard scale and north arrow.

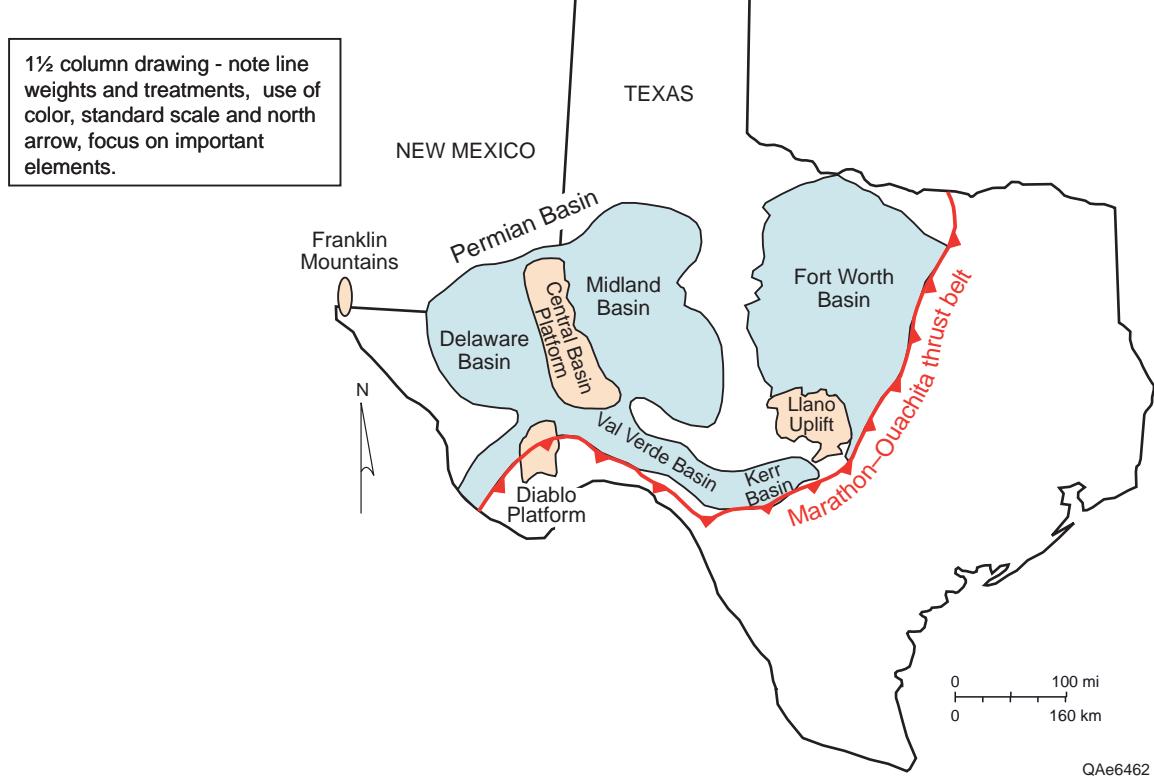
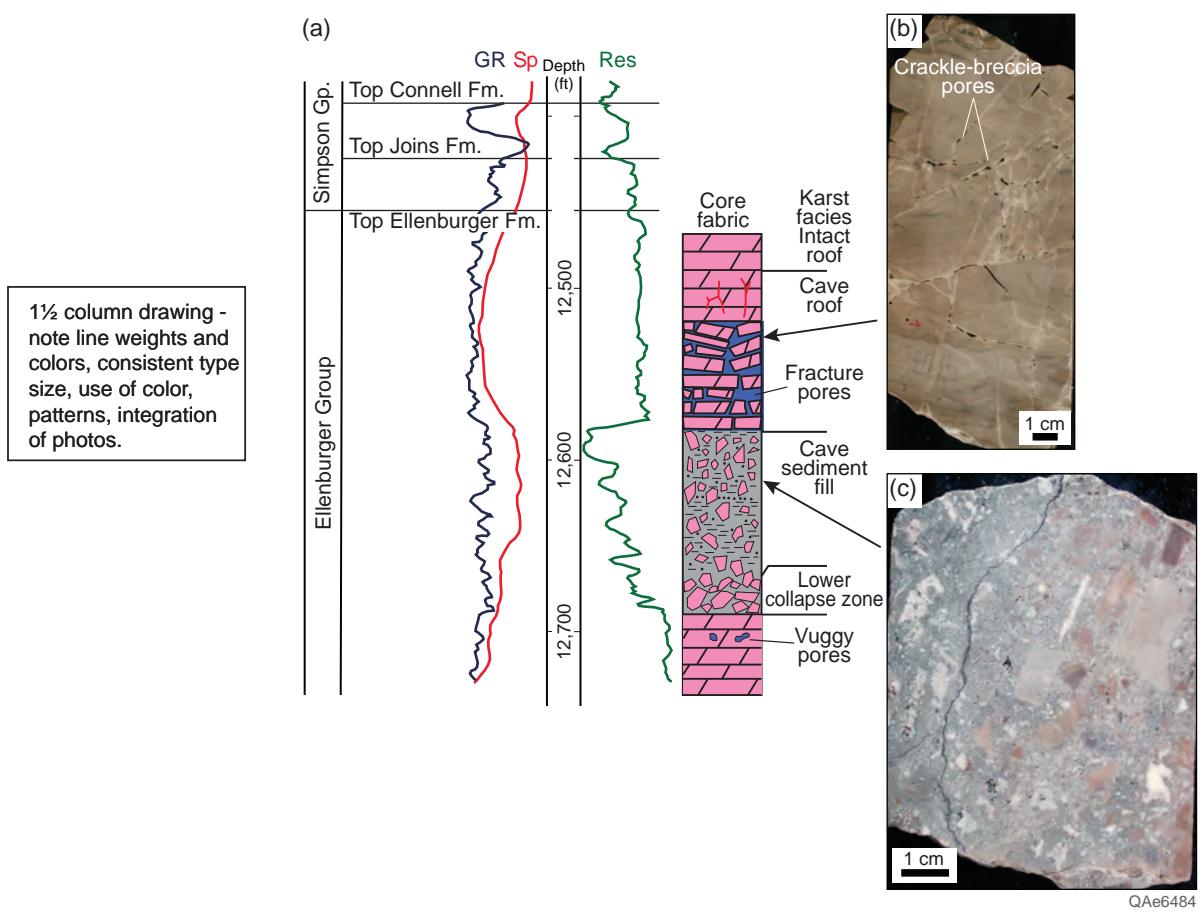


QAe5953

1½ column drawing - note line weights and treatments, use of color, standard scale and north arrow, (a) and (b) labels

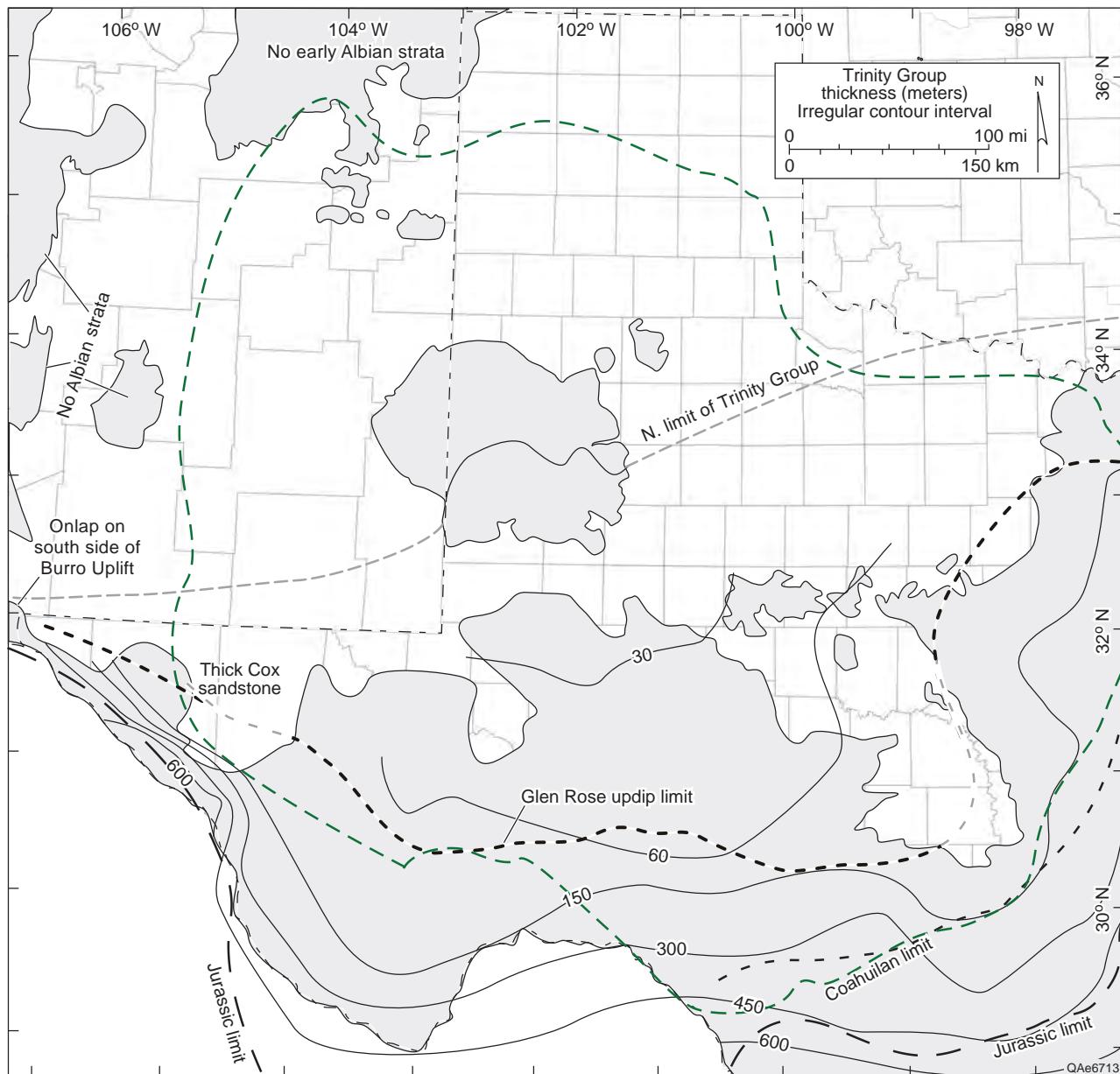


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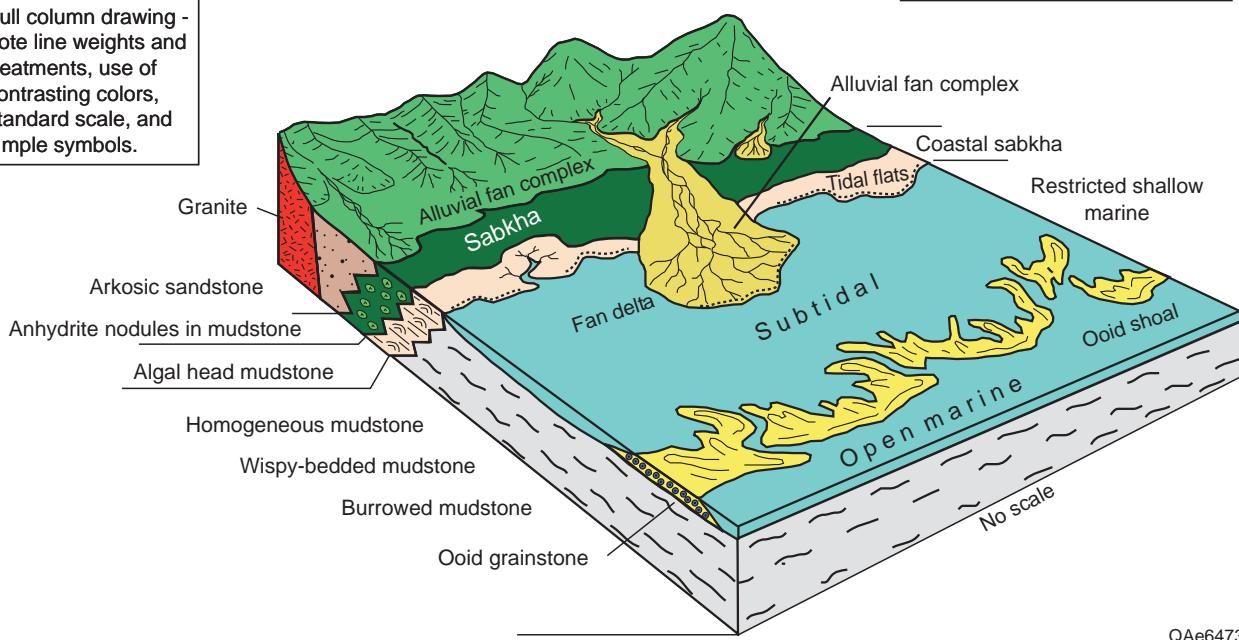
Full column drawing - note line weights, scaling of type, space before and after text, use of patterns.

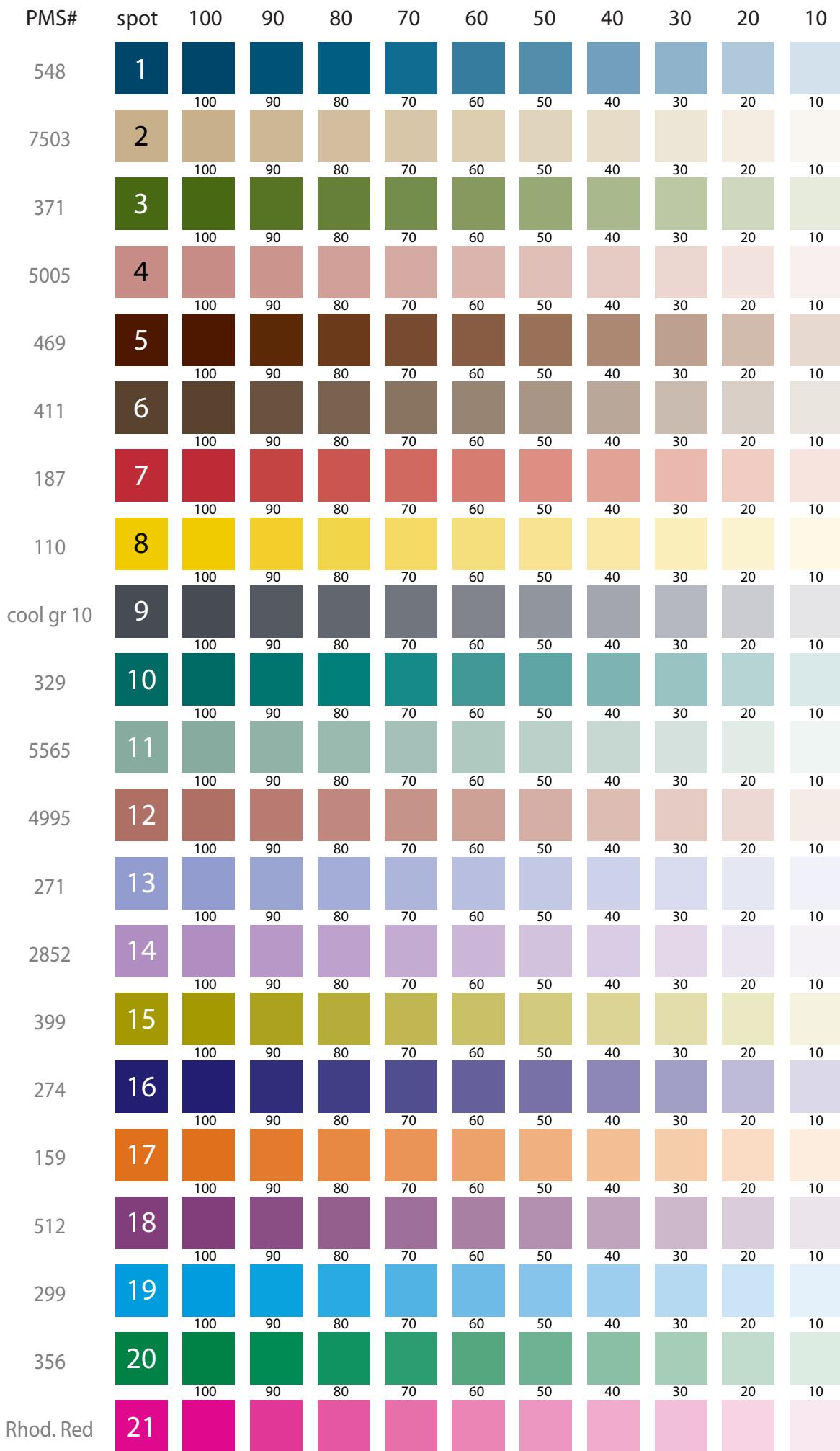
		System		N. Am. Ser.	North American Stage	Global Stage	North American conodonts	Age (Ma)	Oklahoma outcrop	Marathon Uplift outcrop	New Mexico, West Texas outcrop	Permian Basin subsurface	Sloss megasequence
					Webby and others (2000) Morgan (2012)	Ogg and others (2016)	(2005) Derby and others (1991)	Young and others (2005) Derby and others (1991)	Goldman and others (1995)	Pope (2004)	Behnken (2003)	Sloss (1963, 1988)	
ORDOVICIAN		Upper											
Lower		Middle											
Arenigian		Llanvirnian											
White rockian		Caradocian											
Ibexian		Mohawkian											
Blackhillsian		Turonian											
Florian		Chazyan											
Rangerian		Sandbian											
Dapingian		Darriwillian											
Rangerian		Chazyan											
Ibexian		White rockian											
Silurian		Katian											
Hirnantian/Gamachian		Richmondian											
Rhuddanian		Cincinnatian											
Kentuckiensis		divergens											
shatzei		grandis											
robustus		velicuspis											
confluens		tenuis											
undatus		compressa											
quadridactylus		aculeata											
sweeti		friendsvillensis											
polonicus		holodentata											
sinuosa		altifrons											
fibelatum/laevis		arbuckle											
andinus		El Paso Group											
communis		Ellenburger											
deltaurus-costatus		Ellenburger											
Kentuckiensis		Viola Springs											
divergens		Viola Springs											
grandis		Viola Springs											
robustus		Viola Springs											
velicuspis		Viola Springs											
confluens		Viola Springs											
tenuis		Viola Springs											
undatus		Viola Springs											
compressa		Viola Springs											
quadridactylus		Viola Springs											
aculeata		Viola Springs											
sweeti		Viola Springs											
friendsvillensis		Viola Springs											
polonicus		Viola Springs											
holodentata		Viola Springs											
sinuosa		Viola Springs											
altifrons		Viola Springs											
fibelatum/laevis		Viola Springs											
arbuckle		Viola Springs											
andinus		Viola Springs											
communis		Viola Springs											
deltaurus-costatus		Viola Springs											
Kentuckiensis		Viola Springs											
divergens		Viola Springs											
grandis		Viola Springs											
robustus		Viola Springs											
velicuspis		Viola Springs											
confluens		Viola Springs											
tenuis		Viola Springs											
undatus		Viola Springs											
compressa		Viola Springs											
quadridactylus		Viola Springs											
aculeata		Viola Springs											
sweeti		Viola Springs											
friendsvillensis		Viola Springs											
polonicus		Viola Springs											
holodentata		Viola Springs											
sinuosa		Viola Springs											
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arbuckle		Viola Springs											
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communis		Viola Springs											
deltaurus-costatus		Viola Springs											
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andinus		Viola Springs											
communis		Viola Springs											
deltaurus-costatus		Viola Springs											
Kentuckiensis		Viola Springs											
divergens		Viola Springs											
grandis													



Full column drawing - note line weights and treatments, use of tints, and standard scale.

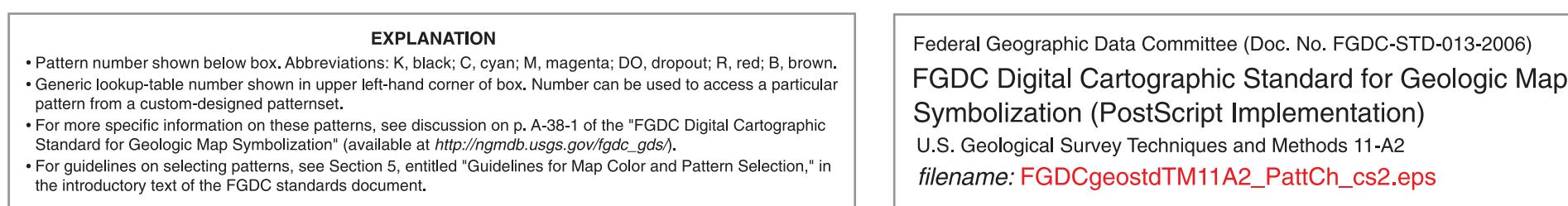
Full column drawing - note line weights and treatments, use of contrasting colors, standard scale, and simple symbols.





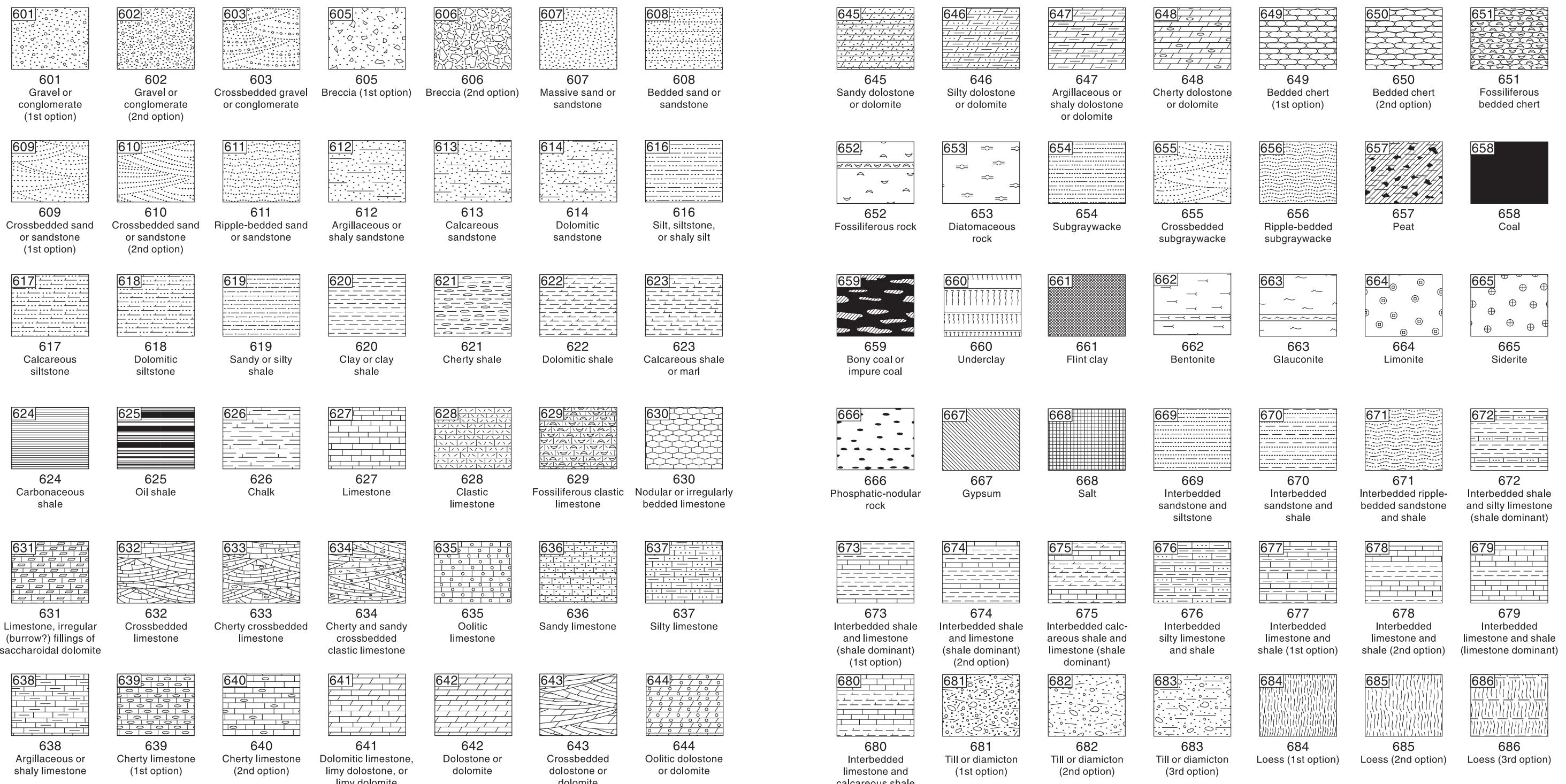
# Pattern Chart

[Pattern number below pattern box; generic lookup-table symbol number in upper left-hand corner of pattern box]



## SEDIMENTARY LITHOLOGY PATTERNS (Series 600)

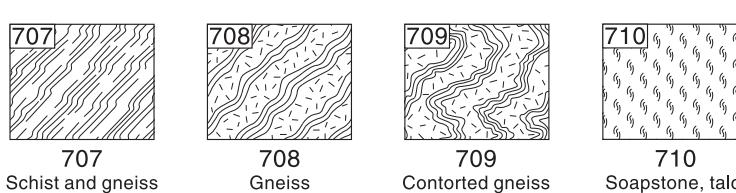
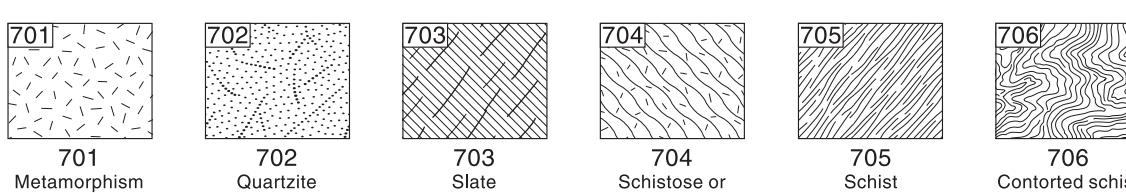
[Usually reserved for use on stratigraphic columns, sections, or charts]



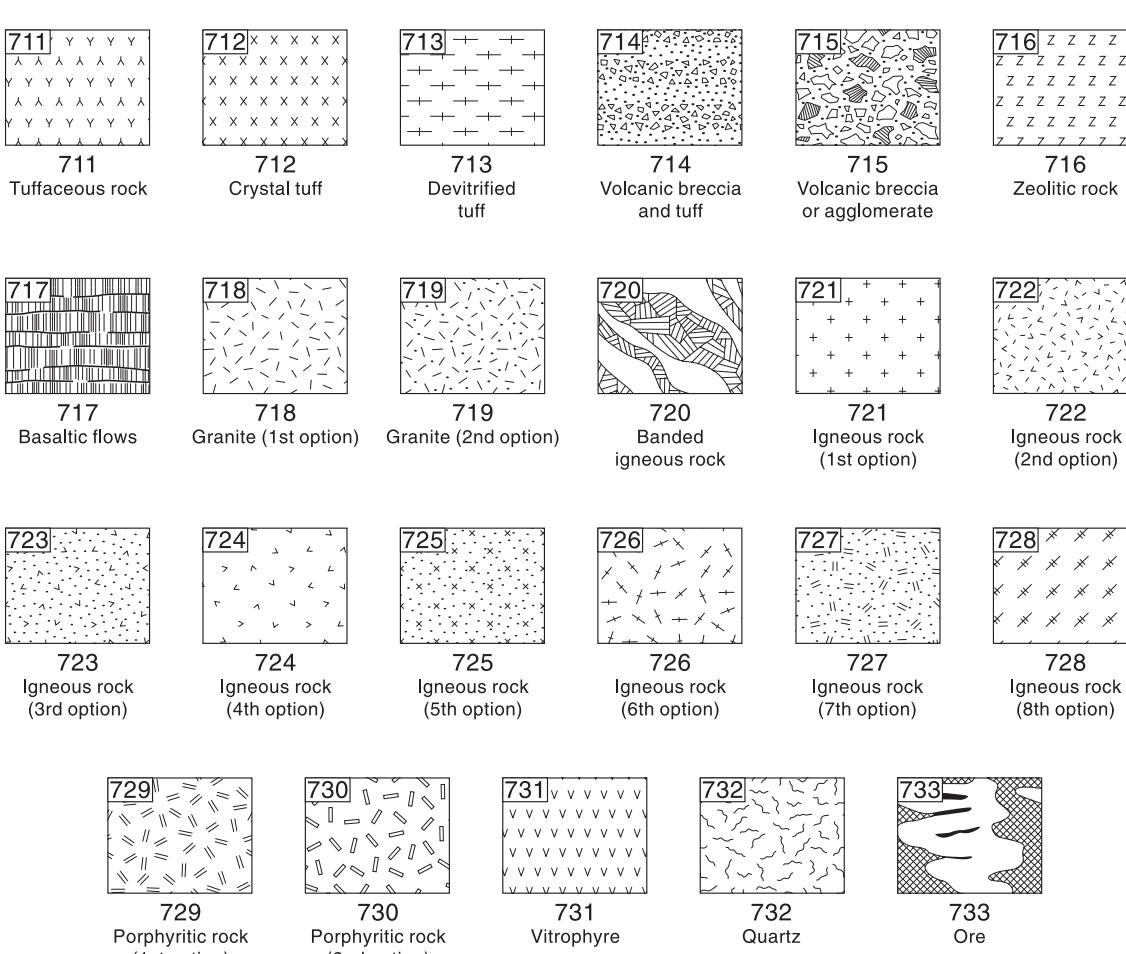
## METAMORPHIC, IGNEOUS, AND VEIN-MATTER LITHOLOGY PATTERNS (Series 700)

[Usually reserved for use on stratigraphic columns, sections, or charts]

Metamorphic lithology patterns (701–710)

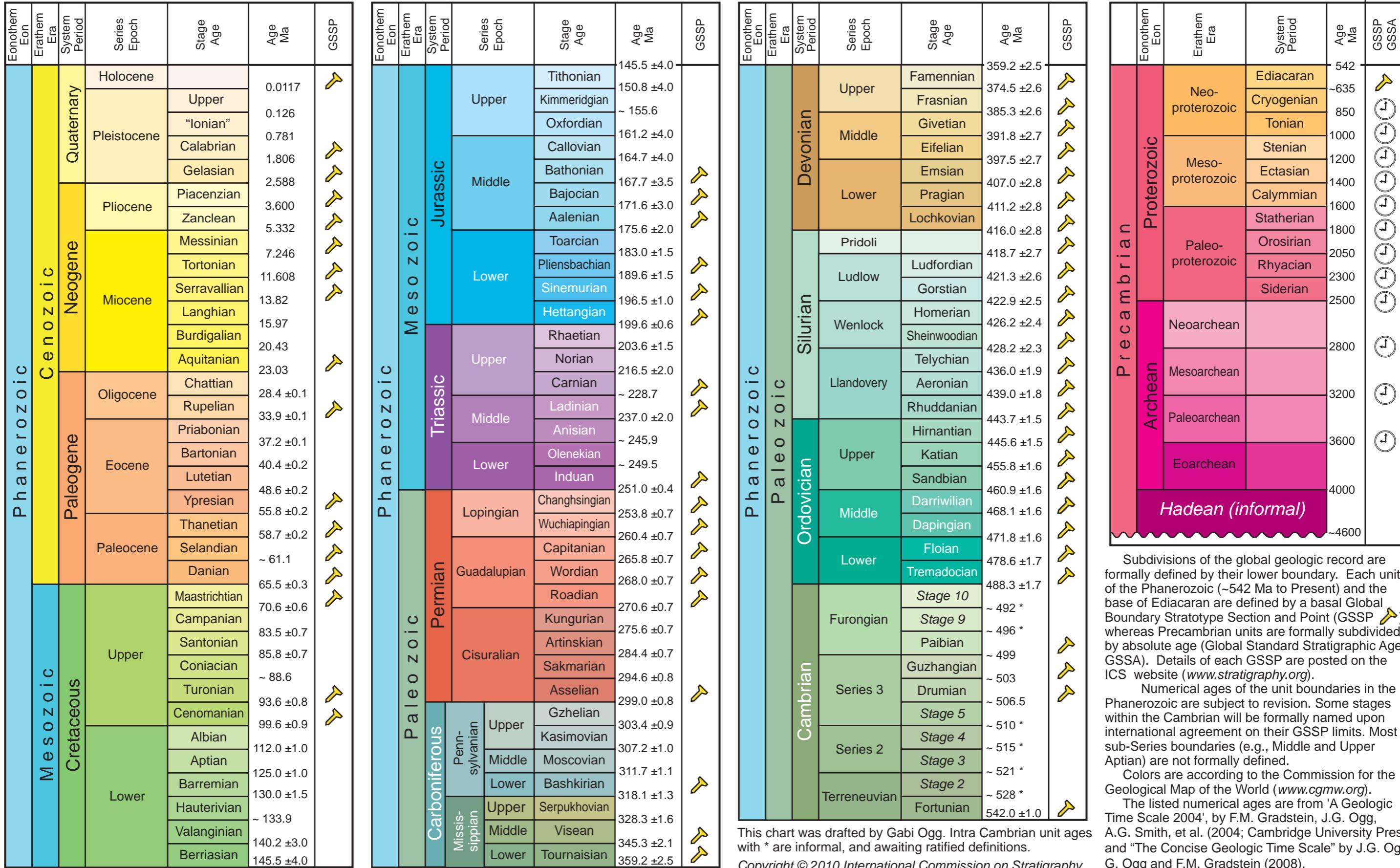


Igneous and vein-matter lithology patterns (711–733)



# INTERNATIONAL STRATIGRAPHIC CHART

International Commission on Stratigraphy



Subdivisions of the global geologic record are formally defined by their lower boundary. Each unit of the Phanerozoic (~542 Ma to Present) and the base of Ediacaran are defined by a basal Global Boundary Stratotype Section and Point (GSSP), whereas Precambrian units are formally subdivided by absolute age (Global Standard Stratigraphic Age, GSSA). Details of each GSSP are posted on the ICS website ([www.stratigraphy.org](http://www.stratigraphy.org)).

Numerical ages of the unit boundaries in the Phanerozoic are subject to revision. Some stages within the Cambrian will be formally named upon international agreement on their GSSP limits. Most sub-Series boundaries (e.g., Middle and Upper Aptian) are not formally defined.

Colors are according to the Commission for the Geological Map of the World ([www.cgmw.org](http://www.cgmw.org)).

The listed numerical ages are from 'A Geologic Time Scale 2004', by F.M. Gradstein, J.G. Ogg, A.G. Smith, et al. (2004; Cambridge University Press) and "The Concise Geologic Time Scale" by J.G. Ogg, G. Ogg and F.M. Gradstein (2008).

This chart was drafted by Gabi Ogg. Intra Cambrian unit ages with \* are informal, and awaiting ratified definitions.

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