

Gulf of Mexico datapack of biostratigraphy and regional stratigraphy -- current contents (Dec, 2009)				
Gulf of Mexico Biostrat				
Global (mirror of Cenozoic; summary only)				
International Chronostratigraphy (partial)				
<i>Epoch (global)</i>				
<i>Subepoch (global)</i>				
<i>Stage (global)</i>				
<i>Sub-stage (global); or Pre-GSSP age</i>				
Planktonic Foraminifers (global)				
<i>Foram Zonation (Berggren et al.'95; Berggren and Pearson,'05)</i>				
<i>Foram Subzone</i>				
<i>Foram Subzone Name</i>				
<i>Major Planktonic Foram markers (global)</i>				
Calcareous Nannofossils (global)				
<i>Nanno Zone (Martini'71)</i>				
<i>Nanno Zonation (Okada & Bukry'80)</i>				
<i>Nanno Subzone (OB'80)</i>				
<i>Major Calc. Nanno markers (global)</i>				
SHELL (2008) Oligocene-Recent				
SHELL Late Cenozoic Gulf of Mexico Stratigraphic Chart; compiled by Michael Styzen & Charlotte Jolley (Shell International Exploration & Production), GCSSEPM 2008				
Sequences (Gulf of Mexico, SHELL)				
<i>Sequence cycle</i>				
<i>Sequences (SHELL)</i>				
Foraminifers (Gulf of Mexico, SHELL)				
Industry Foraminifera Markers				
<i>Foram Zone (Shell, 2005)</i>				
<i>Foram Subzone (Shell, 2005)</i>				
<i>Shell GoM Foraminifer Markers</i>				
<i>Foram Datum (Shell GoM)</i>				
<i>Industry Foraminifera Markers</i>				
Nannofossils (Gulf of Mexico, SHELL)				
Industry Nannofossil Markers				
<i>Nanno Zone (Shell, 2005)</i>				
<i>Nanno Subzone (Shell, 2005)</i>				
<i>Shell GoM Nannofossil Markers</i>				
<i>Nanno Datum (Shell GoM)</i>				
<i>Industry Nannofossil Markers</i>				
Palynology (Gulf of Mexico, SHELL)				
<i>Paly Code</i>				

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			<i>Shell GoM Palynology Markers</i>
		FILLON (2003) Cenozoic	Gulf of Mexico and Tropical-Subtropical Atlantic (Richard H. Fillon, compiler; with contributions by R.G. Lytton III, P.N. Lawless, J.E. Boudreaux, J.T. Christian and B.A. Jenkins; 2003). This is an update of the Lawless et al. (1997) charts.
		Sequences and Facies (Gulf of Mexico, Fillon'03)	Ages and magnitudes of sequence boundaries (solid lines) and surfaces of maximum transgression and flooding (dashed) are after Lawless et al. (1997) and Hardenbol et al. (1998). Sequence boundary nomenclature is from Hardenbol et al. (1998), "ME 2", etc., and from Lawless et al. (1997), "(DQB*[3])", etc. Numbers in brackets [] refers to sequence order. *= TGS industry designations; ** = this chart. Flooding surface nomenclature is from Lawless et al. (1997).
		Sequences (Gulf of Mexico, Fillon'03)	
		<i>Second-order trends (GoM; Fillon'03)</i>	
		<i>Schematic Onlap curve (GoM; Fillon'03)</i>	
		GoM sequences (Fillon'03)	
		<i>Gulf of Mexico Lithostrat Units (Paleogene)</i>	
		<i>Formation (GoM)</i>	
		<i>Member (GoM)</i>	
		Schematic offshore facies	
		Planktonic Foraminifers (Gulf of Mexico, Fillon'03)	
		<i>WHCZ Codes (Plank. Forams)</i>	
		<i>GoM Plank. Foraminifer Markers (Fillon'03)</i>	A= abundant; C= common; R= rare; VR = very rare; RHC = Righthand coiling variety; LHC = Lefthand coiling variety; Updip = inner to middle neritic; Downdip = middle neritic to bathyal
		<i>Globorotalia menardii Abundance Zones (high-resolution)</i>	After Ericson & Sollin (1968); Kennett & Huddleston (1972); Briskin & Berggren (1975). Adapted for the Pliocene by R.H. Fillon
		<i>Coiling changes (Gt. truncatulinoides)</i>	After Lawless et al. (1997)
		<i>Coiling changes (Gt. crassaformis)</i>	After Lawless et al. (1997)
		Benthic Foraminifers (Gulf of Mexico, Fillon'03)	
		<i>GoM Benthic Foraminifer Zones (Fillon'03)</i>	
		<i>WHCZ Codes (Benthic. Forams)</i>	
		<i>GoM Benthic Foraminifer Markers (Fillon'03)</i>	
		Calcareous Nannofossils (Gulf of Mexico, Fillon'03)	
		<i>GoM NN-NP Zones (Fillon'03)</i>	
		<i>GoM CC-CP Zones (Fillon'03)</i>	
		<i>GoM Nannofossil Zones (Fillon'03)</i>	
		<i>WHCZ Codes (Nannos)</i>	
		<i>GoM Nannofossil Markers (Fillon'03)</i>	
		Petroleum Industry Biochronozones (DASHED ages are midway between labels)	
		<i>Plank. Foram (Blue)</i>	

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			<i>Benthic Foram (Green)</i>
			<i>Nannos (Red)</i>
	MMS (2003) Callovian to Recent		Biostratigraphic Chart of the Gulf of Mexico Offshore Regions (US Dept. Interior; Minerals Management Service). [MMS Gulf of Mexico Resource Evaluation Paleontological Group -- For public release May 1, 2003 -- Robert B. Witrock (504) 736-2718, Tony Friedmann (504) 736-2713, or 1-800-200-GULF [http://www.gomr.mms.gov/homepg/whatsnew/speeches/PPDM-2002.html]]
	MMS Chronozone		
			Cretaceous regional stage
			Proposed MMS zone
			Current MMS zone
	MMS Biostratigraphy		
		Planktic and benthic foraminifera and ostracod (O) regional and local markers	[Marker age based on even-divisions within stage listing (dual foram/nanno)]
		Calcareous nannoplanktic regional and local markers	[Marker age based on even-divisions within stage listing (dual foram/nanno)]
	PaleoData - Neogene (v.2008); Paleogene (v.2004)		Biostratigraphic Chart of the Gulf Basin, USA [QUAT-NEOGENE version 0809 (2008); compiled by: A. S. Waterman, M.W. Center, R.A. George, A.F. Porter, Jr., T.M. Reilly, R.V. Roederer, N.S. Vallette, R.D. Weber; PALEOGENE version 0410 (2004); compiled by M.W. Center and A.S. Waterman]. Downloaded from www.paleodata.com
	PaleoData sequence summaries		
		PDI and Fillon (2008; 2004) Map Sequences	Usually (but not always) begin with GoM MFS levels => tried to align
		GoM Basin Margin Sequences from Biostratigraphic Signatures	MFS "name" (mainly Nanno events) used to FIX position within GTS04 stages
		Univ. TX GBDS Deposodes	
	PaleoData biostrat summaries		
		Planktonic Foraminifers (PaleoData)	
		<i>Plank Forams (PaleoData)</i>	
		Benthic Foraminifers (PaleoData)	
		<i>Benthic Foram datums (PaleoData)</i>	
		<i>Benthic Foram Paleoenvironmental Range</i>	
		Calcareous Nannofossils (PaleoData)	
		<i>Nannos (Paleodata)</i>	
		Secondary or Important Local Markers (PaleoData)	
		<i>Other markers (PaleoData)</i>	
	Gulf of Mexico Lithostratigraphy (DNAG; linked to on-line USGS Lexicon)		Mainly from (1) Salvador, A. & Quezada Muneton, J.M. (1989) Stratigraphic correlation chart Gulf of Mexico Basin, Vol. Journal of the Geology of North America, Geological Society of America
	Gulf of Mexico "deep-water standard"		

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		S Louisiana - deep ("GoM deep-water standard")		<i>South Louisiana - offshore (DNAG column 14) would be the closest to deep water GOM, as the industry is still using lithostratigraphy for chronostratigraphy -- this is not the best practice, but it is the common practice. (Chengjie Liu (ExxonMobil); 3Aug09 e-mail advice to J.Ogg)</i>
		Mexico (preliminary)		Mainly from (1) Salvador, A. & Quezada Muneton, J.M. (1989) Stratigraphic correlation chart Gulf of Mexico Basin, Vol. Journal of the Geology of North America, Geological Society of America, (2) Moran-Zenteno, D. (1984; translated 1994) Geology of the Mexican Republic. AAPG Studies in Geology #39, 160 pp., and (3) Mex. Geol. Map (on-line access; using legends of rock succession in different regions). However, none of these contain useful biostrat and facies diagrams summarizing the generalized stratigraphic column.
		Yucatan Platform		
			<i>Yucatan - shallow</i>	
			<i>Yucatan - deep</i>	
		Macuspana Basin - Gulf of Campeche and Villahermosa uplift		
			<i>Macuspana and Campeche - shallow</i>	
			<i>Macuspana and Campeche - deep</i>	
		Sierra de Chiapas		
			<i>Chiapas - shallow</i>	
			<i>Chiapas - shallow to intermediate</i>	
			<i>Chiapas - intermediate</i>	
			<i>Chiapas - intermediate to deep</i>	
			<i>Chiapas - deep</i>	
		Comalcalco Basin & Isthmus Saline Basin		
			<i>Comalcalco & Isthmus - general</i>	
		Veracruz Basin		
			<i>Veracruz - shallow</i>	
			<i>Veracruz - deep</i>	
		Tampico-Misantala Basin		
			<i>Tampico - shallow</i>	
			<i>Tampico - intermediate</i>	
			<i>Tampico - deep</i>	
		Sierra Madre Oriental		
			<i>Sierra Madre Oriental - shallow</i>	
			<i>Sierra Madre Oriental - shallow to intermediate</i>	
			<i>Sierra Madre Oriental - intermediate to deep</i>	
			<i>Sierra Madre Oriental - deep</i>	
		Burgos Basin		
			<i>Burgos - shallow</i>	
			<i>Burgos - deep</i>	

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		Sabinas Basin	
		<i>Sabinas - shallow</i>	
		<i>Sabinas - intermediate</i>	
		<i>Sabinas - deep</i>	
		Texas to Alabama	Salvador, A. & Quezada Muneton, J.M. (1989) Stratigraphic correlation chart Gulf of Mexico Basin, Vol. Journal of the Geology of North America, Geological Society of America.
		Rio Grande (South Texas)	
		<i>South Texas - shallow</i>	
		<i>South Texas - intermediate</i>	
		<i>South Texas - deep</i>	
		San Marcos Arch - Central Texas	
		<i>Central Texas - shallow</i>	
		<i>Central Texas - shallow to intermediate</i>	
		<i>Central Texas - intermediate to deep</i>	
		<i>Central Texas - deep</i>	
		East Texas Basin	
		<i>East Texas - shallow</i>	
		<i>East Texas - intermediate</i>	
		<i>East Texas - deep</i>	
		Southeast Texas, Southwest Louisiana & offshore	
		<i>SE Texas, SW Louisiana - shallow</i>	
		<i>SE Texas, SW Louisiana - Intermediate</i>	
		<i>SE Texas, SW Louisiana - deep</i>	
		South Louisiana and offshore	
		<i>S Louisiana - shallow</i>	
		<i>S Louisiana - deep ("GoM deep-water standard")</i>	
		South Arkansas, North Louisiana & West-central Mississippi	
		<i>S Arkansas to central Mississippi - shallow</i>	
		<i>S Arkansas to central Mississippi - intermediate</i>	
		<i>S Arkansas to central Mississippi - deep</i>	
		Florida to Mississippi	Salvador, A. & Quezada Muneton, J.M. (1989) Stratigraphic correlation chart Gulf of Mexico Basin, Vol. Journal of the Geology of North America, Geological Society of America.
		Southeast Mississippi, Southwest Alabama, W. Florida panhandle & offshore	
		<i>SE Mississippi, SW Alabama, W. Florida panhandle - offshore</i>	
		<i>SE Mississippi, SW Alabama, W. Florida panhandle - intermediate</i>	
		<i>SE Mississippi, SW Alabama, W. Florida panhandle - deep</i>	
		Southeast Alabama, Central Florida panhandle & Southwest Georgia	

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				<i>SE Alabama, Florida panhandle & SW Georgia - shallow</i>	
				<i>SE Alabama, Florida panhandle & SW Georgia - deep</i>	
				South Georgia & North Florida	
				<i>S Georgia & N Florida - shallow</i>	
				<i>S Georgia & N Florida - intermediate</i>	
				<i>S Georgia & N Florida - deep</i>	
				Central and South Florida	
				<i>S Florida - shallow</i>	
				<i>S Florida - intermediate</i>	
				<i>S Florida - deep</i>	