

Africa Mappack of Basin Stratigraphy (selected)

Currently 15 Basins (114 columns; including 9 transects); compiled by Rebecca Bobick 2015-early2016

Main references for stratigraphic columns/transects

Northern Africa

Tunisia

Lithostratigraphy	Fig. 3, Fetheddine Melki, Taher Zouaghi, Mohamed Ben Chelbi, Mourad Bédir and Fouad Zargouni (2012). Role of the NE-SW Hercynian Master Fault Systems and Associated Lineaments on the Structuring and Evolution of the Mesozoic and Cenozoic Basins of the Alpine Margin, Northern Tunisia, Tectonics - Recent Advances, Prof. Evgenii Sharkov (Ed.), ISBN: 978-953-51-0675-3, InTech, DOI: 10.5772/50145. Available from: http://www.intechopen.com/books/tectonics-recent-advances/role-of-the-ne-sw-hercynian-master-fault-systems-and-associated-lineaments-on-the-structuring-and-ev
Depositional Environments	Fetheddine Melki, Taher Zouaghi, Mohamed Ben Chelbi, Mourad Bédir and Fouad Zargouni (2012). Role of the NE-SW Hercynian Master Fault Systems and Associated Lineaments on the Structuring and Evolution of the Mesozoic and Cenozoic Basins of the Alpine Margin, Northern Tunisia, Tectonics - Recent Advances, Prof. Evgenii Sharkov (Ed.), ISBN: 978-953-51-0675-3, InTech, DOI: 10.5772/50145. Available from: http://www.intechopen.com/books/tectonics-recent-advances/role-of-the-ne-sw-hercynian-master-fault-systems-and-associated-lineaments-on-the-structuring-and-ev
Tectonic Events	Fig. 6, Klett, T.R., 2001. Total Petroleum Systems of the Pelagian Province, Tunisia, Libya, Italy, and Malta—The Bou Dabbous– Tertiary and Jurassic-Cretaceous Composite, U.S. Geological Survey Bulletin 2202-D, 1-145
Transect (3 columns including wells)	Fig. 6, Klett, T.R., 2001. Total Petroleum Systems of the Pelagian Province, Tunisia, Libya, Italy, and Malta—The Bou Dabbous– Tertiary and Jurassic-Cretaceous Composite, U.S. Geological Survey Bulletin 2202-D, 1-145

N.W. Sahara Region

Stratigraphic Nomenclature - Illizi	Klett, T.R., 2000, "Total Petroleum Systems of the Grand Erg/Ahnet Province, Algeria and Morocco - The Tanezzuft - Timimoun, Tanessuft-Ahnet, Tanezzuft-Sbaa, Tanezzuft-Mouydir, Tanezzuft-Benoud, and Tanezzuft Bechar/Abadla" Bulletin 2202-B, U.S. Geological Survey
Stratigraphic Nomenclature - Triassic	Klett, T.R., 2000, "Total Petroleum Systems of the Grand Erg/Ahnet Province, Algeria and Morocco - The Tanezzuft - Timimoun, Tanessuft-Ahnet, Tanezzuft-Sbaa, Tanezzuft-Mouydir, Tanezzuft-Benoud, and Tanezzuft Bechar/Abadla" Bulletin 2202-B, U.S. Geological Survey
Stratigraphic Nomenclature - Hamra	Klett, T.R., 2000, "Total Petroleum Systems of the Grand Erg/Ahnet Province, Algeria and Morocco - The Tanezzuft - Timimoun, Tanessuft-Ahnet, Tanezzuft-Sbaa, Tanezzuft-Mouydir, Tanezzuft-Benoud, and Tanezzuft Bechar/Abadla" Bulletin 2202-B, U.S. Geological Survey
N.W. Sahara Lithology	Klett, T.R., 2000, "Total Petroleum Systems of the Grand Erg/Ahnet Province, Algeria and Morocco - The Tanezzuft - Timimoun, Tanessuft-Ahnet, Tanezzuft-Sbaa, Tanezzuft-Mouydir, Tanezzuft-Benoud, and Tanezzuft Bechar/Abadla" Bulletin 2202-B, U.S. Geological Survey
N.W. Sahara Tectonic Features	Davison, I., 2005, "Central Atlantic margin basins of North West Africa: Geology and hydrocarbon potential (Morocco to Guinea)", Journal of African Earth Sciences 43 pg 254–274
Tectonic Phases - Illizi	Galeazzi, S. et al., "Regional geology and petroleum systems of the Illizi_Berkine area of the Algerian Saharan Platform: An overview", Marine and Petroleum Geology 27 (2010) 143_178

Iullemeden Basin

Stratigraphy	Figure 9, Burke, K. and Gunnell, Y., "The African Erosion Surface: A Continental-Scale Synthesis of Geomorphology, Tectonics, and Environmental Change Over the Past 180 Million Years", Geological Society of America Memoirs 2008; 201; 1-66
Depositional Environments	Fig 6., Zanguina, M., "An introduction to the Petroleum Potential of Niger", Journal of Petroleum Geology, Vol. 21(1), Jan 1998, pp. 83-103
Tectonic Events	Fig 6., Zanguina, M., "An introduction to the Petroleum Potential of Niger", Journal of Petroleum Geology, Vol. 21(1), Jan 1998, pp. 83-103
Transect (3 columns including wells)	Reference: Guiraud, R., Bosworth, W., Thierry, J., Delplanque, A., 2005, "Phanerozoic geological evolution of Northern and Central Africa: An overview", Journal of African Earth Sciences, 43, 83-143

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Lithology	Fig 7., Zanguina, M., "An introduction to the Petroleum Potential of Niger", Journal of Petroleum Geology, Vol. 21(1), Jan 1998, pp. 83-103
Depositional Environments	Fig 7., Zanguina, M., "An introduction to the Petroleum Potential of Niger", Journal of Petroleum Geology, Vol. 21(1), Jan 1998, pp. 83-103
Tectonic Events	Fig 7., Zanguina, M., "An introduction to the Petroleum Potential of Niger", Journal of Petroleum Geology, Vol. 21(1), Jan 1998, pp. 83-103

Libya

[Compiled by Cecilia Shaver]

Charst derived from: USGS Correlation Chart and Columnar Section for Rocks in Libya, 1963. Descriptions from: Hallet, Don: Petroleum Geology of Libya, 2002.

Tripolitania and Sirte Basin	
Fezzan Basin	
Cyrenaica Basin	

Egypt		<i>[Preliminary; Compiled by Cecilia Shaver]</i>
	Basic Egyptian Stratigraphy Overview	Said, R. The Geology of Egypt, 1962 pg. 19-20, 138
	Egypt - Gulf of Suez - Lithostratigraphy	Middle East Geological Timescale 2008 Al-Husseini, Journal of Middle East Petroleum Geosciences v 13, no. 4
	Egypt - Gulf of Suez - Sequences	Middle East Geological Timescale 2008 Al-Husseini, Journal of Middle East Petroleum Geosciences v 13, no. 4
Western Africa		
West Africa Overview		
	General Lithology	Brownfield, M.E. and Charpentier, R.R., "Assessment of the Undiscovered Oil and Gas of the Senegal Province, Mauritania, Senegal, The Gambia, and Guinea-Bissau, Northwest Africa", U.S. Geological Survey Bulletin 2207-A, posted online October 2003
Niger Delta		
	Offshore W. General Lithology	Reijers, T.J.A., "Stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-162
	Onshore W. General Lithology	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-162
	Offshore E. General Lithology	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-163
	Onshore E. General Lithology	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-164
	Shell Pollen Zones	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-165
	Shell Foram Zones	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-166
	Elf Pollen Zones	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-167
	Elf Foram Zones	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-168
	Elf Benthic Foram Zones	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-169
	Structural Events	Lawrence, S.R. et al, "Regional geology and geophysics of the eastern Gulf of Guinea (Niger Delta to Rio Muni)", The Leading Edge (Nov. 2002), pg 1112-1117
	Tectonostratigraphy	Lawrence, S.R. et al, "Regional geology and geophysics of the eastern Gulf of Guinea (Niger Delta to Rio Muni)", The Leading Edge (Nov. 2002), pg 1112-1117
	Margin Evolution	Lawrence, S.R. et al, "Regional geology and geophysics of the eastern Gulf of Guinea (Niger Delta to Rio Muni)", The Leading Edge (Nov. 2002), pg 1112-1117
	Depobelt Penetration	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-162
	Eustatic Facies	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-162
	Transect (3 columns including wells)	Reijers, T.J.A., "stratigraphy and sedimentology of the Niger Delta", Geologos, 2011, 17(3): 133-162
Tano		
	Stratigraphy	Jianping, Liu et al., "Exploration targets in the Cote D'Ivoire-Ghana transform margin in Equatorial West Africa", Petroleum Exploration and Development, Vol. 37, Issue 1, Feb. 2010
	Depositional Environments	Jianping, Liu et al., "Exploration targets in the Cote D'Ivoire-Ghana transform margin in Equatorial West Africa", Petroleum Exploration and Development, Vol. 37, Issue 1, Feb. 2010
	Tectonic Events	Rüpke, L.H., 2010, Basin modelling of a transform margin setting: structural, thermal, and hydrocarbon evolution of the Tano Basin, Ghana, Petroleum Geoscience, v. 16, 283-298
	Transect (5 columns including wells)	Wells, S., Warner, M., Greenhalgh, J., and Borsato, R., May 2012, Deepwater Potential in Côte d'Ivoire, Petroleum Geoservices, Geo ExPro, 39
Central Africa (coastal basins from North to South)		
Douala & Kribi Campo		
	Douala Stratigraphy	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	Douala Depositional Environments	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	Kribi Campo Stratigraphy	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	Kribi Campo Depositional Environments	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B

	Tectonic Stage	Ntamak-Nida, M.J.,Sedimentology and sequence stratigraphy from outcrops of the Kribi-Campo sub-basin: Lower Mundeck Formation (Lower Cretaceous, southern Cameroon)
	Tectonic Events	Ntamak-Nida, M.J.,Sedimentology and sequence stratigraphy from outcrops of the Kribi-Campo sub-basin: Lower Mundeck Formation (Lower Cretaceous, southern Cameroon)
	Transect	From Dailly, P., Lowry, P., Goh, K., Monson, G., 2002, Exploration and development of Ceiba Field, Rio Muni Basin, Southern Equatorial Guinea, The Leading Edge, 21(11), 1140-1146
Rio Muni		
	W. General Lithology	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	E. General Lithology	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	E. Depositional Environments	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	Tectonic Events	Turner, J.P., 1999, "Detachment faulting and petroleum prospectivity in the Rio Muni Basin, Equatorial Guinea, West Africa", Geological Society, London, Special Publications 1999, v.153; p303-320
	Transect (3 columns including wells)	From Lawrence, S.R., Munday, S., and Bray, R., November 2002, Regional geology and geophysics of the eastern Gulf of Guinea (Niger Delta to Rio Muni), The Leading Edge, 21(11), 1112-1117
Gabon		
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	North Gabon E. Lithology	U.S. Geological Survey "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa" Bulletin 2207-B
	South Gabon W. Lithology	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	South Gabon C. Lithology	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	South Gabon E. Lithology	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	Offshore Gabon W. Lithology	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
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	Interior Gabon W. Lithology	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
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	Interior Gabon E. Depositional Environments	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	Tectonic Events	Chen, A. et al, "Salt tectonics and basin evolution in the Gabon Coastal Basin, West Africa", Journal of Earth Science, Vol, 24, No. 6, p. 903-917, Dec. 2013
	South Gabon Structural Style	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
	Transect (5 columns including wells)	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
Congo Basin (coastal)		
	W. General Lithology	Figure 13, Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
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	Depositional Environments	Figure 13, Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
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Kwanza Basin (Angola)		
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	Tectonic Events	Hudec, M.R. and Jackson, M.P.A., "Regional Restoration across the Kwanza Basin, Angola: Salt tectonics triggered by repeated uplift of a metastable passive margin", AAPG Bulletin, V. 88, No. 7 (July 2004), pp. 971-990
	Transect (5 columns including wells)	Brownfield, M.E. and Charpentier, R.R., 2006, "Geology and Total Petroleum Systems of the West-Central Coastal Province (7203), West Africa", US Geological Survey Bulletin 2207-B
Eastern Africa		
Tanzania		
	Tectonic Events	"Regional lithostratigraphy of Tanzania", Tanzania Petroleum Development Corporation
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Afar-Yemen		
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	Volcanic Stratigraphic Terminology	
Southern Africa		
Karoo		
	Cape Fold Belt Lithology	Fig. 2. in Catuneanu, O., et al., "The Karoo basins of south-central Africa", Journal of African Earth Sciences 43 (2005), 211-254. and Tankard, A., "Tectonic evolution of the Cape and Karoo basins of South Africa", Marine and Petroleum Geology 26 (2009) 1379-1412
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	Tectonic Events	Tankard, A., "Tectonic evolution of the Cape and Karoo basins of South Africa", Marine and Petroleum Geology 26 (2009) 1379-1412
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