

Table 1

ERA	Supersystem	sub-unit	age	source facies	formation names	distribution - basin	key discoveries	analog
Proteroz.	<b>McARTHUR</b> evaporitic rifts		Mesoproterozoic 1700 - 1500 Ma	lacustrine dol. shales	Barney Creek	McArthur, Mt Isa, eastern Arafura?	oil & gas shows	none
	<b>URAPUNGAN</b> marine shelf and slope, foreland basin		Mesoproterozoic c. 1400 Ma	marine shales	Velkerri & McMinn	McArthur, Mt Isa, Victoria River	oil flows - BMR Urupunga 4, Jamieson 1	none
	<b>CENTRALIAN</b> Centralian Superbasin - intracratonic basin within Rodinia marine, evaporitic, glacial	1 2 3	Neoproterozoic c. 750 Ma Neoproterozoic c. 650 Ma Neoproterozoic c. 600 Ma	carbonates, evaporites shales post glacial marine shales post glacial marine shales	Bitter Springs, Albinia Browne Aralka, Rinkabeena Pertatataka, Rodda	Amadeus, Ngalia, Georgina Officer, Birrindudu, Savory Amadeus, Georgina Ngalia Amadeus, Officer, Ngalia Savory, Victoria River	gas flow Magee 1 oil & gas shows gas flows - Ooraminna 1 Davis 1 Dingo gas field	Siberia Oman
Pz	<b>LARAPINTINE</b> lower Palaeozoic tropical climate carbonates, evaporites, marine clastics	1	Cambrian	marine calc. shale	Goulburn Gp., Tempe	Arafura, Amadeus	Arafura 1 oil shows	Williston
		2	Ordovician	marine	Horn Valley, Goldwyer	Amadeus, Canning	Mereenie oil field	
		3	Middle-Late Devonian	marine carbonate	Gogo, Ningbing	Canning, Bonaparte	Blina oil field	Bolivia
		4	Early Carboniferous	marine anoxic shale	Anderson, Milligans	Canning, Bonaparte	Sundown oil field	
	<b>GONDWANAN</b> Late Carb.- Early Triassic glaciation, clastics higher plant contribution to source rocks	1	Early Permian	non-marine	Irwin River, Patchawarra	Perth, Cooper, Bowen	Tirrawarra gas & oil field	
		2	Late Permian	non-marine	Treachery, Keyling Blackwater Gp.	Bonaparte Bowen	Rolleston gas field	
3		earliest Triassic	marine deltaic marine	Wagina Hyland Bay Kockatea	Perth Bonaparte Perth	Petrel gas field Dongara oil & gas field		
Mz	<b>WESTRALIAN</b> Triassic-Cenozoic Break-up of northern and western margin marine rift environments	1	Late Trias.-E/M Juras.	deltaic	Mungaroo	Carnarvon	Rankin Trend giant gas fields	North Sea
		2	Late Jurassic	marine, anoxic?	Dingo, Flamingo	Carnarvon, Bonaparte	Barrow Island oil field	
		3	Early Cretaceous	marine	Echuca Shoals	Bonaparte, Browse	Undan/Bayu; Cornea?	
		4 <b>SAHUL</b>	Mesozoic	marine carbonate		Bonaparte, Timor, Seram		
	<b>AUSTRAL</b> Late Jurassic-Cenozoic Break-up of southern and south-western margins terrestrial rift environments	1	Late Jur.- Early Cret.	fluvio-lacustrine shale	Casterton, Pretty Hill, Parmelia	Otway, Perth, Carnarvon?	Katnook, Gage Roads	
		2	Early Cretaceous	fluvial - coaly	Eumeralla	Otway	Windermere, Minerva	
3		Late Cretaceous	fluvio-deltaic	Latrobe Gp.	Gippsland, Bass	Kingfish		
<b>MURTA</b> Cretaceous interior sag, fluvio-lacustrine to marine	1	Late Jurassic	fluvio-lacustrine	Poolawanna, Birkhead	Eromanga, Surat	? oil shows unproven source		
	2	Neocomian	lacustr./marginal marine	Murta	Eromanga	Dullingari oil field		
	3	Late Albian	anoxic marine oil shale	Toolebuc	Eromanga	oil shows, immature source		
Cz	<b>CAPRICORN</b> Late Cret.-Cz rifts, northeast Aust., tropical Break-up of Coral Sea		Eocene	lacustrine oil shales			Stuart oil shale demonstration plant	SE Asia