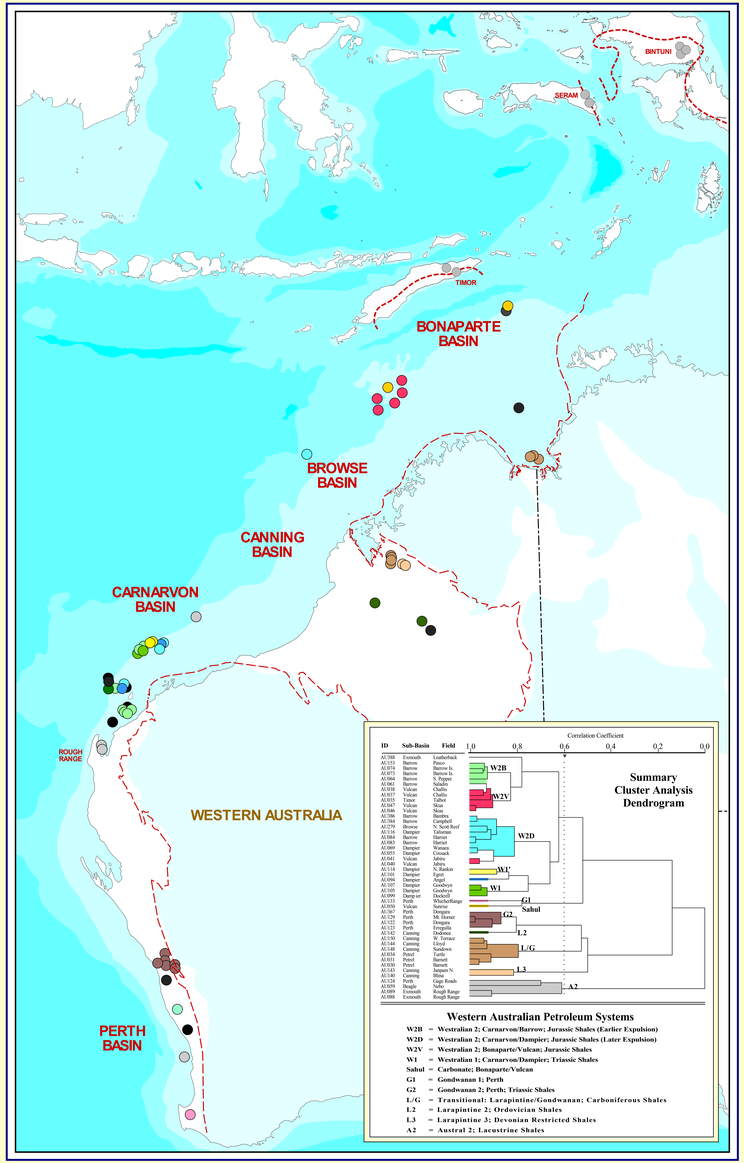
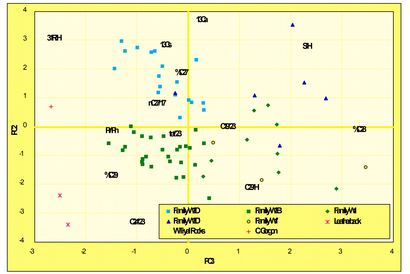
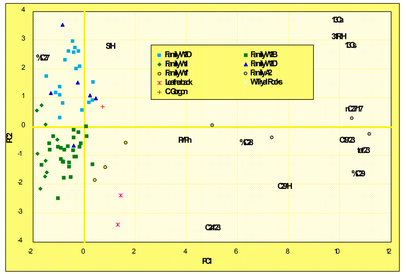


Principal Component Scores and Loads



Principal Component Scores and Loads

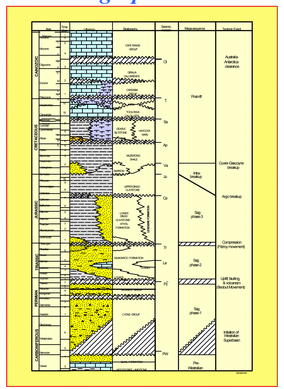


Summary Table

Field/Well	Depth (m)	PC 1	PC 2	PC 3	13Cs	13Ca	S1/S6	Ts/Tm	29D/H	DM/H
Family W2D										
AU279 N. Scott Reef	4283	-0.3	0.9	-0.0	-26.96	-24.48	3.00	1.39	0.46	0.02
AU116 Talisman	1968	-0.3	1.6	-0.2	-26.57	-24.50	3.81	1.80	0.60	0.02
AU118 Talisman	1927	-0.1	0.6	0.3	-26.45	-24.87	3.66	1.86	0.62	0.01
AU117 Talisman	1957	-0.2	0.8	0.1	-26.64	-24.50	3.69	1.98	0.60	0.01
AU152 Legendre	1898	-0.2	2.1	-0.5	-26.47	-24.47	3.68	2.22	0.61	0.01
AU054 Cossack	2956	-0.3	2.0	-1.4	-26.18	-24.37	3.82	2.58	0.93	0.01
AU055 Cossack	2956	-0.2	2.6	-1.2	-26.22	-24.36	3.69	2.98	0.97	0.01
AU007 Wanaea	2897	-0.4	2.6	-0.7	-25.97	-24.35	3.44	3.25	1.01	0.02
AU069 Wanaea	2918	-0.4	3.0	-1.3	-26.13	-24.65	3.87	3.32	1.06	0.02
AU083 Harriet	1946	-1.0	1.4	-0.5	-26.85	-25.28	2.78	3.33	0.92	0.09
AU081 Harriet	1922	-0.8	0.8	0.3	-26.81	-25.27	2.76	3.35	0.91	0.09
AU068 Wanaea	2910	-0.4	2.7	-1.0	-26.14	-24.60	3.59	3.38	1.04	0.02
AU084 Harriet	1916	-1.0	1.1	-0.2	-26.79	-25.28	2.91	3.39	0.93	0.09
AU082 Harriet	1910	-1.1	1.2	-0.6	-26.73	-25.19	2.68	3.40	0.86	0.08
AU398 Bambra	2034	-0.6	2.6	-0.7	-26.25	-24.83	3.50	3.46	0.91	0.04
AU385 Tanami	2180	-0.9	0.3	-0.2	-26.62	-25.70	3.11	3.56	0.84	0.08
AU383 Roxette	2396	-1.5	1.8	-0.6	-26.43	-25.30	3.83	3.74	0.83	0.05
AU384 Campbell	2216	-0.7	2.3	0.2	-26.53	-25.12	3.82	3.75	0.92	0.13
AU057*Harriet	1922				-25.77	-26.97				
Family W2B										
AU087 North Herald	1735	-0.9	-1.1	-0.9	-27.05	-26.26	0.83	0.61	0.23	0.11
AU085 Hilda	2669	-0.4	-0.4	-0.7	-27.12	-25.38	2.65	1.36	0.43	0.08
AU060 Pasco	1832	-0.3	-1.3	-0.9	-26.56	-25.82	0.50	1.38	0.42	0.08
AU058 Hilda	2670	-0.8	-1.2	-0.4	-26.87	-26.28	2.77	1.38	0.44	0.09
AU328 Maintland	1289	-1.4	-0.6	0.3	-26.57	-26.07	1.00	1.43	0.47	0.01
AU027 Chinook	2654	-0.8	-0.8	-0.2	-26.93	-26.42	3.11	1.45	0.38	0.06
AU028 Griffin	2664	-0.8	-1.2	-0.9	-27.04	-26.23	3.54	1.50	0.43	0.08
AU153 Pasco	1754	-0.2	-0.2	-1.1	-26.50	-25.90	1.08	1.62	0.51	0.00
AU091 Saladin	1117	-1.6	-1.3	0.1	-27.25	-26.37	2.30	1.77	0.64	0.19
AU102 Goodwyn-1	2847	-1.0	-2.5	0.4	-27.26	-26.49	1.98	1.78	0.54	0.44
AU371 Finders Shoal	799	-0.1	-0.6	-1.6	-26.77	-25.89	1.08	1.80	0.57	0.20
AU078 Echo	2993	-0.9	-0.7	0.0	-27.12	-26.09	1.65	1.84	0.60	0.62
AU097 Dockrell	3009	-0.3	-1.0	-0.8	-27.27	-25.89	1.54	1.85	0.65	0.48
AU065 S. Pepper		-0.6	-1.4	-0.7	-26.69	-26.06	1.63	1.87	0.63	0.28
AU090 Saladin	1129	-1.3	-0.8	-0.5	-27.24	-26.39	2.16	1.88	0.61	0.14
AU063 S. Pepper	2217	-0.6	-0.7	0.0	-26.81	-26.12	1.52	1.89	0.62	0.26
AU092 Saladin	1116	-1.0	-0.7	-0.2	-27.29	-26.36	2.58	1.90	0.60	0.16
AU115 Rankin	2954	-0.5	-1.8	-0.1	-27.11	-26.02	1.52	1.91	0.66	0.50
AU080 Finders Shoal	852	-0.4	-1.0	-0.4	-26.93	-26.00	1.15	1.93	0.61	0.21
AU064 S. Pepper		-0.6	-1.3	-0.1	-26.84	-26.03	1.49	1.97	0.62	0.27
AU103 Goodwyn-1	2847	-0.8	-1.8	-0.2	-27.42	-26.37	1.81	1.98	0.67	0.43
AU091 Saladin		-1.2	-0.3	-0.5	-27.17	-26.46	2.26	2.02	0.65	0.17
AU073 Barrow Island		-0.4	-0.1	0.2	-26.70	-25.97	1.16	2.06	0.57	0.17
AU370 Barrow Island		-0.2	-0.7	-1.2	-26.81	-25.88	1.32	2.08	0.66	0.19
AU374 Barrow Island	859	-0.4	-0.8	-1.3	-26.58	-25.99	1.83	2.46	0.65	0.11
AU071 Barrow	2068	0.1	-0.3	-0.9	-26.60	-25.56	1.65	3.11	0.73	0.02
AU074 Barrow Island	2312	0.1	0.0	-1.1	-26.72	-25.41	1.48	3.19	0.68	0.02
AU062*Sinbad	2064				-26.65	-25.39				
AU075*Chervil	1618				-26.75	-25.46				
AU362*Barrow Island					-26.68	-26.08				
AU370*Barrow Island	1692				-26.62	-25.52				
AU372*Barrow Deep	3429				-25.25	-23.40				
AU382*Yammadery	1101				-27.15	-26.31				
AU360*Australind	1223				-27.13	-27.12				
AU090*Crest	1160				-27.22	-26.25				
AU079*Elder	1787				-26.46	-25.00				
AU076*East Spar	2537				-26.49	-25.64				
AU077*East Spar	2537				-26.58	-25.63				
Family W1										
AU104 Goodwyn-3	2891	-1.5	-1.6	1.8	-27.34	-25.83	2.42	1.23	0.43	0.33
AU108 Goodwyn-7	2835	-1.7	-2.2	2.9	-27.26	-26.08	8.63	1.34	0.46	0.39
AU105 Goodwyn-4	2903	-1.5	-1.2	0.4	-27.14	-26.16	2.34	1.85	0.62	0.49
AU107 Goodwyn-5	2903	-1.5	-1.7	0.3	-26.97	-26.09	2.48	1.92	0.63	0.54
AU119 Tidepole	3018	-1.8	0.6	1.3	-26.81	-25.47	3.09	1.97	0.56	0.18
AU098 Dockrell	2995	-1.0	-0.5	1.1	-26.98	-25.50	1.76	1.97	0.58	0.60
AU099 Dockrell	2995	-1.5	0.1	1.7	-27.06	-25.38	2.16	2.00	0.62	0.68
AU106 Goodwyn-4	2903	-1.8	-0.9	1.7	-27.17	-26.20	2.71	2.10	0.63	0.57
AU096 Spar	2630	-1.7	0.7	1.6	-26.45	-25.73	6.47	2.78	0.61	0.08
Family W2D?										
AU056 Flag	1291	-1.3	1.2	-0.3	-26.78	-25.62	0.70	0.96	0.36	0.07
AU094 Angel	2751	-0.5	1.0	2.7	-26.93	-24.55	5.90	1.42	0.50	0.01
AU111 Lambert	3106	-0.2	1.1	1.3	-27.08	-24.90	7.56	2.16	0.76	0.02
AU110 Lambert	3106	-0.2	1.5	2.3	-26.96	-24.87	6.72	2.22	0.74	0.04
AU095 Angel	2748	-0.8	3.5	2.0	-26.90	-24.42	7.73	2.52	0.62	0.02
AU097*Angel	2689				-26.80	-24.32	7.50	3.07	0.83	0.13
AU387 Bambra	3640	-0.4	-0.7	1.8	-27.39	-25.72	4.79	14.10	1.92	0.11
Family W1'										
AU114 N. Rankin		-0.4	-1.8	1.4	-27.38	-25.17	4.04	1.15	0.36	0.01
AU101 Egret	3128	1.6	-0.6	0.5	-26.90	-25.37	3.15	1.31	0.42	0.01
AU100 Eaglehawk	2798	-0.8	-1.4	3.5	-26.45	-25.48	3.73	1.60	0.62	0.09
AU113*N. Rankin	2998				-27.22	-25.19				
Family A2										
AU059 Nebo	2668	5.0	0.1	-1.2	-26.71	-24.84	1.34	0.81	0.33	0.01
AU021 Rough Range 1102		7.3	-0.4	-0.9	-24.66	-24.21	0.94	0.39	0.19	0.00
AU088 Rough Range 1102		11.2	-0.3	1.2	-24.65	-24.03	2.13	0.36	0.18	0.02
AU089 Rough Range		10.5	0.3	1.5	-24.68	-24.03	1.89	0.37	0.16	0.02
Vagrants										
AU338 Leatherback		1.3	-3.4	-2.4	-27.46	-26.04	0.68	1.25	0.52	0.01
AU398 Leatherback	1752	1.4	-2.4	-2.5	-27.28	-26.14	0.58	1.40	0.53	0.01
AU120 W. Tryal Rock	8305	1.3	2.4	0.9	-23.76	-24.69	4.46	1.49	0.41	0.13
AU121* W. Tryal Rock	8448				-23.82	-24.71	7.00	1.62	0.50	0.12
AU096 C. Gorgon	4033	0.7	0.7	-2.7	-25.63	-25.24	0.84	0.57	0.20	0.01
AU109*Gorgon	4002				-25.73	-25.77	4.67	10.67	1.35	0.13
AU112*N. Gorgon	3759				-25.68	-25.76				

*very low/no biomarkers (condensates)

Stratigraphic Chart


TIME
Ma
Epoch
Stage
Sequence
Major discontinuities
Tectonic Events
Australian Antarctic clockwise
Fitzroy
Cover Glaciation (Marinoan)
Argo breakup
Tag (Phase 2)
Compression (Pilbara movement)
Uplift, faulting & volcanism (Ninetyeast Movement)
Tag (Phase 1)
Initiation of Ninetyeast Scarp
Rift Valley
Post-Rift
CRETACEOUS
JURASSIC
TRIASSIC
PERMIAN
CARBONIFEROUS
DEVONIAN
SILURIAN
ORDOVICIAN
CAMBRIAN
PROTEROZOIC
ARCHAEAN
LATE CRETACEOUS
EARLY CRETACEOUS
LATE JURASSIC
MIDDLE JURASSIC
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EARLY CAMBRIAN
LATE PROTEROZOIC
EARLY PROTEROZOIC
LATE ARCHAEAN
EARLY ARCHAEAN
Pre-Hawkeye
Hawkeye
Pre-Rift
Rift
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Ma
Ts
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Jb
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Kh
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