

CONCEPTUAL GEOCHRONOLOGY				OBSERVED GIPPSLAND BIOSTRATIGRAPHIC SEQUENCES OF PLANKTONIC FORAMINIFERAL ASSEMBLAGES					
CORRELATION WITH PAN-TROPIC STANDARD		GIPPSLAND CHRONS		"MULTIPLE LAYER" ASSEMBLAGE ZONES		"MINIMAL LAYER" ASSEMBLAGE ZONES			
modified after:- Berggren & Van Couvering (1974) Van Couvering & Berggren (1977) Hardenbol & Berggren (1978)		Multiple layered	Minimal layered	S.L.		S.L.			
		boundary time slop		ASSEMBLAGE ZONE LETTER CODE		ASSEMBLAGE ZONE LETTER CODE			
M.Y.		time interval probably unrepresented by assemblages		SUMMARY OF FAUNAL CHARACTERISTICS OF ASSEMBLAGES (Full characterisation in text)		SUMMARY OF FAUNAL CHARACTERISTICS OF ASSEMBLAGES (Full characterisation in text)			
EPOCHS		BLOW (1979) ZONES							
1	PLEISTOCENE	N23 / N22	A-1 / A-2	A-1 / A-2	TOP of section	Modern sea-floor assemblage of eastern Gippsland with <i>Pulleniatina G'quad dutertrei</i> and <i>G'alia tosaensis/truncatulinoides</i>	TOP of section	Sea-floor assemblages of Gippsland continental shelf with <i>G'alia inflata</i> (S.S.) and <i>G'alia truncatulinoides</i>	
2	LATE/MID PLIOCENE	N21	A-3	A	A-3	<i>G'alia inflata</i> (SS)	A		
3		N20 / N19	A-4		A-4	<i>G'alia crassaformis</i> <i>G'alia puncticulata</i>		<i>G'alia inflata</i> GROUP (S.L.) incl. ? <i>G'alia puncticulata</i>	
4			EARLY PLIOCENE						
5	LATE MIOCENE	N17 / N16	B-1		B-1	<i>G'alia miotumida conomiozea</i>		+XXXX Keeled <i>GLOBOROTALIA</i> spp.	
6					B	B-2	<i>G'alia languaensis</i> and <i>G'alia miotumida miotumida</i>	B	
7									
8	MID MIOCENE	N15 / N14	C	C	C	<i>G'alia acostaensis</i>	C	+XXXX <i>G'alia mayeri</i>	
9									
10									
11	MIOCENE	N13 / N12 / N11 / N10	D-1		D-1	<i>G'ina nepenthes</i> and <i>G'alia scitula</i>	D	+XXXX <i>G'alia conica</i>	
12									
13									
14	EARLY MIOCENE	N9	D-2		D-2	<i>G'alia miozea miozea</i> and <i>G.praescitula G'alia praefoshi</i> Specific diversity decline of <i>GLOBIGERINOIDES</i> spp.	D		
15									
16									
17	LATE MIOCENE	N8 / N7	E-1	E-1	E-1	<i>Orb. universa</i>	E-1	+XXXX <i>Orb universa</i>	
18									
19									
20	EARLY MIOCENE	N6	E-2	E-2	E-2	ORBULINA DATUM-as <i>Orb.suturalis</i>	E-2	+XXXX <i>Orb suturalis</i>	
21									
22									
23	LATE MIOCENE	N5	F	F	F	PRAEORBULINA GLOMEROSA (see text)	F	+XXXX <i>Praeorb glomerosa</i>	
24									
25									
26	EARLY MIOCENE	N4	G	G	G	Diversification <i>GLOBIGERINOIDES</i> ; with <i>G'OIDES BISPHERICUS</i> (see text)	G	+XXXX <i>G'oides bisphericus</i>	
27									
28									
29	LATE MIOCENE	N3 (=P22)	H-1		H-1	<i>G'alia miozea miozea</i>	H	+XXXX <i>G'oides trilobus</i>	
30									
31									
32	OLIGOCENE	N2 (=P21)	H-2	H	H-2	<i>G'alia kugleri</i>	H	+XXXX <i>G'quad dehiscens</i> (S.S.)	
33									
34									
35	LATE OLIGOCENE	N1 (=P20)	I-1		I-1	<i>G'alia kugleri</i> & <i>G'quad dehiscens</i> (S.S.)	I	+XXXX <i>G'ina woodi woodi</i> +XXX <i>G'alia opima opima</i>	
36									
37									
38	EARLY OLIGOCENE	P19	I-2	I	I-2	<i>G'ina woodi connecta</i>	I	+XXXX <i>G'ina woodi woodi</i> +XXX <i>G'alia opima opima</i>	
39									
40									
41	LATE OLIGOCENE	P18	J-1	J	J-1	Planktonic assemblage not recognised	J	+XXXX <i>Guembeltria</i> or <i>G'alia testarugosa</i> and <i>G. extans</i>	
42									
43									
44	EARLY EOCENE	P17	J-2		J-2	<i>G'ina angiporoides angiporoides</i>	J	+XXXX <i>G'alia opima opima</i> +XXX <i>Chiloguembelina</i>	
45									
46									
47	LATE EOCENE	P16	K		K	<i>G'ina brevis</i> & <i>G'alia gemma</i>	K	+XXXX <i>G'ina angiporoides angiporoides</i>	
48									
49									
50	EARLY EOCENE	P15				DISLOCATION of BIO-CHARACTER with DIRECT SUPER-POSITION of MULTIPLE-LAYER ASSEMBLAGES upon MINIMAL-LAYER ASSEMBLAGES in SOME OFFSHORE SECTIONS.		Planktonic assemblages nowhere recognised in Gippsland Basin.	
51									
52									
53	MID EOCENE	P14				Pre-Oligocene multiple layers assemblages have not been recognised in the Gippsland Basin.		+XXXX <i>G'alia primitiva</i> , <i>G. renzi</i> <i>G. collectea</i> , <i>G'ina angiporoides minima</i>	
54									
55									
56	EARLY EOCENE	P13				BIO-EVENT SYMBOLS			
57							+XXXX local arrival of taxon		+XXXX <i>G'theka index</i>
58							+XXXX Morphometric fragmentation of lineage (see text)		+XXX <i>G'ina frontosa</i> & <i>G'ina higginsii</i>
59	LATE EOCENE	P12				+XXXX local departure of taxon		+XXXX <i>G'alia centralis</i>	
60							brief transient presence of taxon		+XXXX <i>Plan.wilcoxensis</i>
61							++++ disjunct range when compared with multiple layer assemblage zones		+XXXX & <i>G'alia australiformis</i>
62	EARLY EOCENE	P11						+XXXX <i>G'ina frontosa</i>	
63									
64									
65	LATE EOCENE	P10							
66									
67									
68	EARLY EOCENE	P9							
69									
70									

