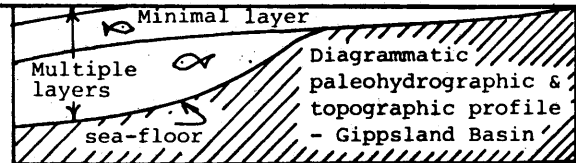


CONCEPTUAL GEOCHRONOLOGY				OBSERVED GIPPSLAND BIOSTRATIGRAPHIC SEQUENCES OF PLANKTONIC FORAMINIFERAL ASSEMBLAGES					
CORRELATION WITH PAN-TROPIC STANDARD		GIPPSLAND CHRONS		"MULTIPLE LAYER" ASSEMBLAGE ZONES			"MINIMAL LAYER" ASSEMBLAGE ZONES		
modified after:- Berggren & Van Couvering (1974) Van Couvering & Berggren (1977) Hardenbol & Berggren (1978)		Multiple layered	Minimal layered	S.L. 			S.L.		
M.Y.	EPOCHS	BLOW (1979) ZONES	boundary time slop time interval probably unrepresented by assemblages		ASSEMBLAGE ZONE LETTER CODE	SUMMARY OF FAUNAL CHARACTERISTICS OF ASSEMBLAGES (Full characterisation in text)	ASSEMBLAGE ZONE LETTER CODE	SUMMARY OF FAUNAL CHARACTERISTICS OF ASSEMBLAGES (Full characterisation in text)	
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>	A	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	<i>G'alia inflata</i> GROUP (S.L.) incl. ? <i>G'alia puncticulata</i>	
3		N20 / N19	A-4		A-4	<i>G'alia crassaformis</i> <i>G'alia puncticulata</i>			
4		EARLY PLIOCENE		B-1		B-1			<i>G'alia miotumida conomiozea</i>
5	LATE MIOCENE	N17 / N16	B-1	B	B-1	<i>G'alia linguaensis</i> and <i>G'alia miotumida miotumida</i>	B	Keeled <i>GLOBOROTALIA</i> spp.	
6			B-2		B-2				
7	MID MIOCENE	N15 / N14	10.4	C	C	<i>G'alia acostaensis</i>	C	<i>G'alia mayeri</i>	
8		N13	12.0	D-1		D-1			
9		N12		D-2		D-2			
10		N11 / N10	13.5	E-1 / E-2	E-1 / E-2	E-1 / E-2			<i>Orb. universa</i> <i>ORBULINA DATUM-as Orb. suturalis</i> <i>PRAORBULINA GLOMEROSA</i> (see text)
11	EARLY MIOCENE	N9	14.5				F	<i>G'oides bisphericus</i>	
12		N8 / N7	15.0	F	F	F			
13			15.5						
14	MIOCENE	N6	17.5	G	G	Diversification <i>GLOBIGERINOIDES</i> ; with <i>G'OIDES BISPHERICUS</i> (see text)	G		
15									
16	LATE MIOCENE	N5				<i>G'alia miozea miozea</i>	H	<i>G'oides trilobus</i> <i>G'quad dehiscens</i> (S.S.)	
17		N4	22.5	H-1		H-1			
18			24.0	H-2	H	H-2			
19			25.0	I-1		I-1			
20	OLIGOCENE	N3 (=P22)	26.0	I-1		<i>G'quad dehiscens</i> (S.L.)	I	<i>G'alia opima opima</i>	
21									
22	LATE OLIGOCENE	N2 (=P21)		I		Planktonic assemblage not recognised	I-2	<i>Guembeltria</i> or <i>G'alia testarugosa</i> and <i>G. extans</i>	
23									
24	EARLY OLIGOCENE	N1 (=P20)	30.0	J		<i>G'ina angiporoides angiporoides</i>	J	<i>G'alia opima opima</i> <i>Chiloguembelina</i>	
25			32.0	J-1		J-1			
26			33.0						
27	OLIGOCENE	P19	34.5			<i>G'ina brevis</i> & <i>G'alia gemma</i>	K	Planktonic assemblage not recognised	
28			35.5	J-2		J-2			
29	LATE EOCENE	P18	37.0			<i>G'ina woodi connecta</i>	K	<i>G'ina woodi woodi</i> <i>G'alia opima opima</i>	
30			38.0	K		K			
31			38.0						
32	MID EOCENE	P16	40.0			DISLOCATION of BIO-CHARACTER with DIRECT SUPER-POSITION of MULTIPLE-LAYER ASSEMBLAGES upon MINIMAL-LAYER ASSEMBLAGES in SOME OFFSHORE SECTIONS.	N	<i>G'alia primitiva</i> , <i>G. renzi</i> <i>G. collactea</i> , <i>G'ina angiporoides minima</i>	
33			40.0						
34	EARLY EOCENE	P15	44.0			Pre-Oligocene multiple layers assemblages have not been recognised in the Gippsland Basin.	N		
35			46.0	N					
36			47.5						
37	MID EOCENE	P13	49.0			BIO-EVENT SYMBOLS	O	<i>G'theka index</i> <i>G'ina frontosa</i> & <i>G'ina higginsi</i>	
38			49.0			<ul style="list-style-type: none"> +↑ local arrival of taxon +↑ MM Morphometric fragmentation of lineage (see text) + XXXX local departure of taxon + brief transient presence of taxon +++ disjunct range when compared with multiple layer assemblage zones 			
39	EARLY EOCENE	P12					O	<i>G'alia centralis</i> <i>Plan.wilcoxensis</i> & <i>G'alia australiformis</i>	
40									
41	EARLY EOCENE	P11					P	<i>G'ina frontosa</i>	
42									
43	EARLY EOCENE	P10					P	BASE OF GIPPSLAND PLANKTONIC FORAM SEQUENCE	
44									
45	EARLY EOCENE	P9	49.0			Base of Gippsland foram. sequence			

SUMMARY PLANKTONIC FORAMINIFERAL BIOSTRATIGRAPHY - GIPPSLAND BASIN (Final draft to accompany M.S.)

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OIL and GAS DIVISION

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