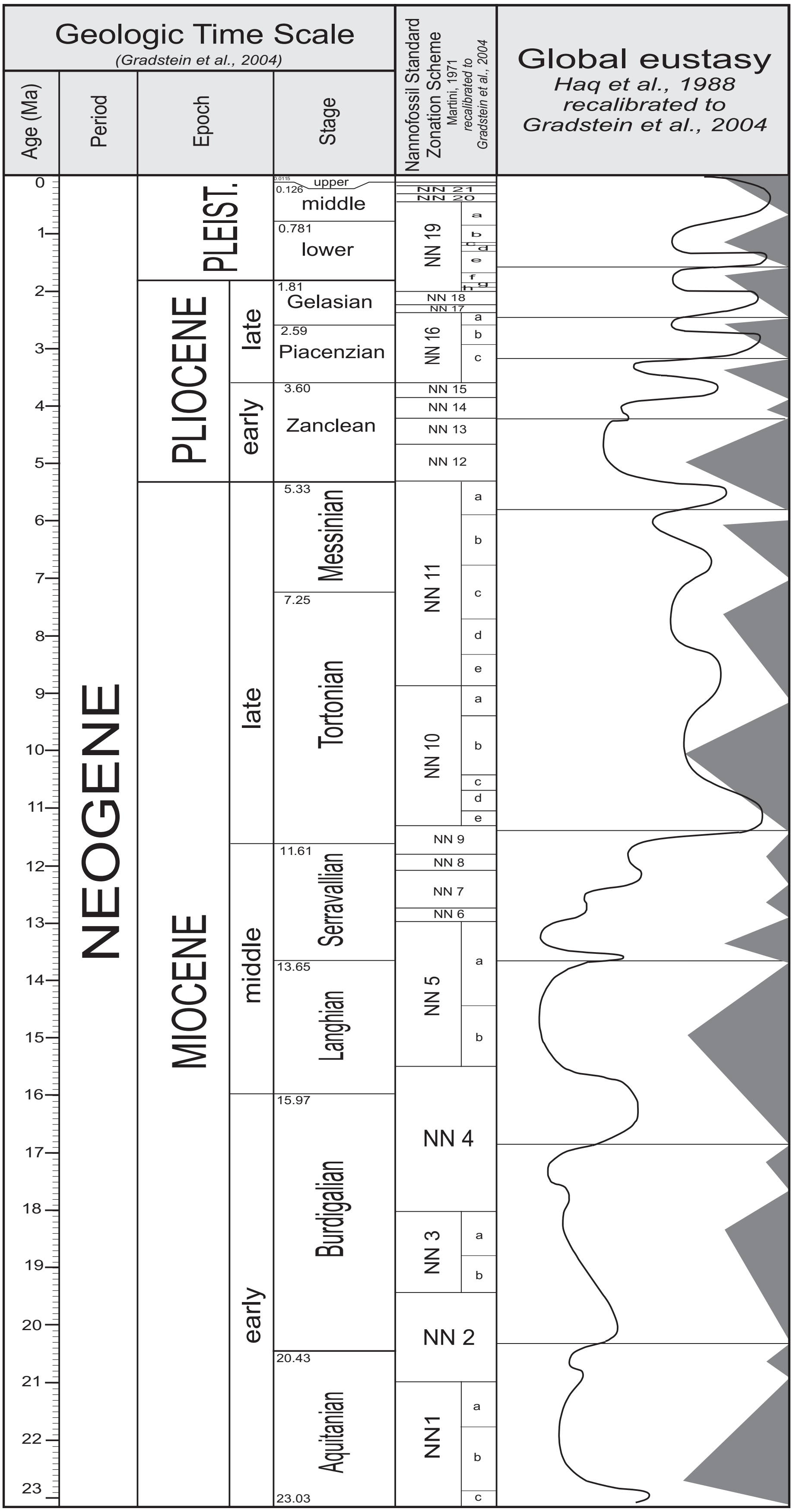
Appendix 1

Age	Zone	Depth(mbsl)	Events
Indet.	Indeterminate	- 1175	Barren
Early Pliocene	NN15-NN12	- 1235	*Sphenolithus abies*, *Reticulofenestra pseudoumbilica*
Late Miocene	NN11a	- 1595	*Discoaster quinqueramus*
	NN11b	- 1660	*Reticulofenestra rotaria*
	Stratigraphic Break (?)		
	NN10	- 2075	*Minylitha convallis* *Helicosphaera orientalis* *Helicosphaera pacifica*
Stratigraphic break			
Indet.	Indeterminate	- 2135	Poor assemblage
Middle Miocene	NN7	- 2195	*Discoaster deflandrei* *Coronocyclus nitescens*
	NN6	- 2315	*Cyclicargolithus floridanus*
	NN5	- 2435	*Sphenolithus heteromorphus* *Discoaster signus* at 2520
Early Miocene	NN4a	2615	*Helicosphaera ampliaperta*
	NN4b	- 2815	*Helicosphaera euphratis* *Clausicoccus tasmaniae*
Indet.	Indeterminate	- 2938	Barren of *in situ* nannofossils

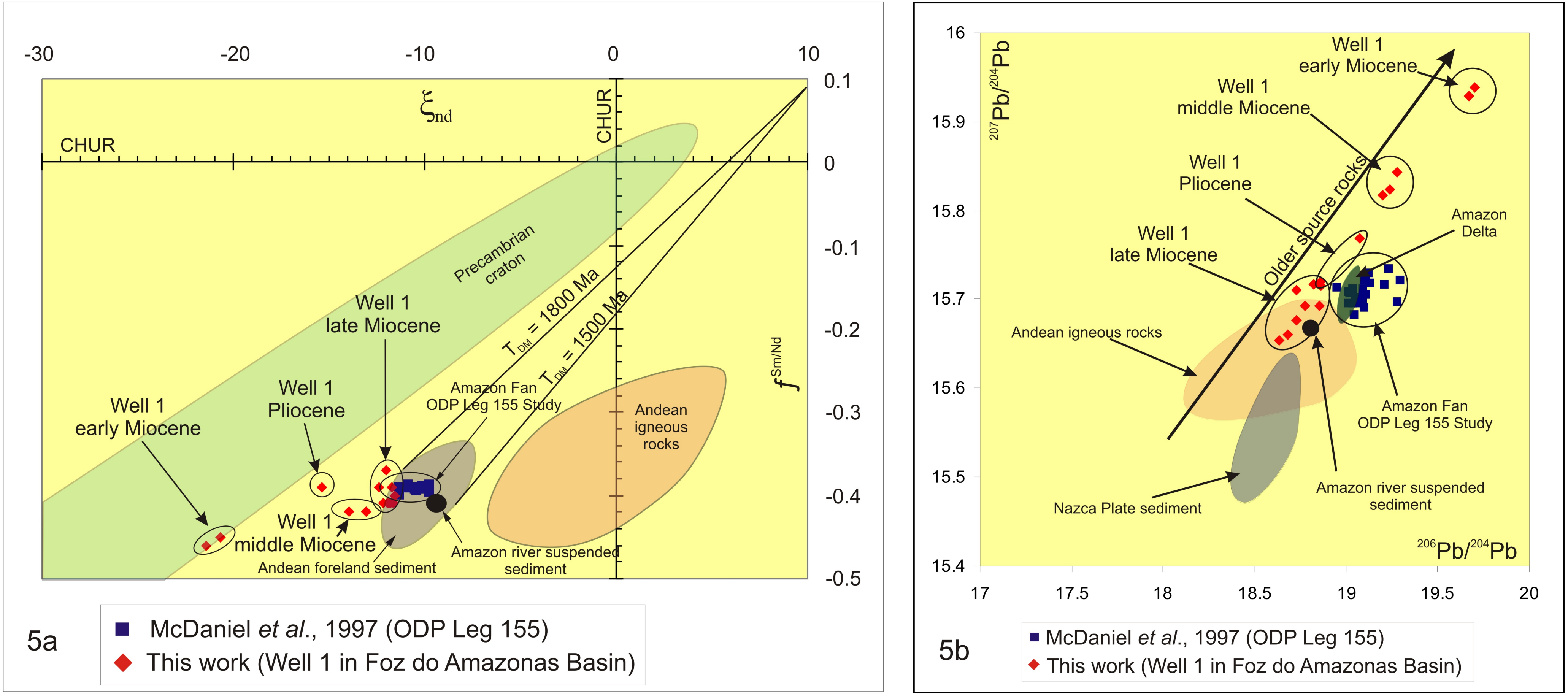
Appendix 2

<table>
<tr><th>Age</th><th>Zone</th><th>Depth(mbsl)</th><th>Events</th></tr>
<tr><td rowspan="4">Pleistocene</td><td>NN19a</td><td>- 1457</td><td>Salisia kamptneri, Salisia ovata</td></tr>
<tr><td>NN19b</td><td>- 1754</td><td>Crenalitus asanoi</td></tr>
<tr><td>NN19c</td><td>- 2051</td><td>Gephyrocapsa caribbeanica clausa</td></tr>
<tr><td>NN19d</td><td>- 2609</td><td>Schyphosphaera pulcherrima</td></tr>
<tr><td colspan="4">Stratigraphic break</td></tr>
<tr><td rowspan="4">Late Pliocene</td><td rowspan="2">NN18</td><td>- 2654</td><td>Discoaster brouweri</td></tr>
<tr><td>- 2726</td><td>Discoaster tarosus</td></tr>
<tr><td>NN17</td><td>- 2879</td><td>Discoaster pentaradiatus</td></tr>
<tr><td>NN16a</td><td>- 2987</td><td>Discoaster surculus</td></tr>
<tr><td rowspan="4">Early Pliocene</td><td rowspan="3">NN15-NN14</td><td>- 3338</td><td>Sphenolithus abies</td></tr>
<tr><td>- 3392</td><td>Sphenolithus abies (abundant)</td></tr>
<tr><td>- 3410</td><td>Reticulofenestra pseudoumbilica</td></tr>
<tr><td>NN13-NN12</td><td>- 3554</td><td>Helicosphaera intermedia</td></tr>
<tr><td rowspan="16">Late Miocene</td><td rowspan="3">NN11a</td><td>- 3744</td><td>Discoaster surculus</td></tr>
<tr><td>- 3780</td><td>Schyphosphaera circula</td></tr>
<tr><td>- 3786</td><td>Discoaster berggrinii</td></tr>
<tr><td rowspan="3">NN11b</td><td>- 3822</td><td>Reticulofenestra rotarica</td></tr>
<tr><td>- 3858</td><td>Helicosphaera pacifica (sporadic)</td></tr>
<tr><td>- 3864</td><td>Coccolithus pelagicus (abundant)</td></tr>
<tr><td rowspan="2">NN11c-d</td><td>- 3942</td><td>Helicosphaera philippinensis</td></tr>
<tr><td>- 3984</td><td>Helicosphaera walbersdorfensis</td></tr>
<tr><td>NN11e-NN10b</td><td>- 3996</td><td>Minylitha convallis</td></tr>
<tr><td>NN10c</td><td>- 4086</td><td>Discoaster prepentaradiatus</td></tr>
<tr><td rowspan="2">NN10d</td><td>-4116</td><td>Rhabdosphaera paculii</td></tr>
<tr><td>- 4122</td><td>Catinaster calyculus, Coccolithus parvus</td></tr>
<tr><td>NN10e</td><td>- 4128</td><td>Catinaster coalitus</td></tr>
<tr><td rowspan="2">NN9</td><td>- 4134</td><td>Discoaster hamatus</td></tr>
<tr><td>- 4140</td><td>D. hamatus, C. coalitus, C. parvus</td></tr>
<tr><td colspan="3" style="display:none"></td></tr>
<tr><td colspan="4">Stratigraphic break</td></tr>
<tr><td rowspan="4">Middle Miocene</td><td>NN7</td><td>- 4146</td><td>Helicosphaera mullearae, Triquetrorhabdulus rioi</td></tr>
<tr><td>NN6a</td><td>- 4152</td><td>Cyclicargolithus floridanus</td></tr>
<tr><td>NN6b</td><td>- 4176</td><td>Coronocyclus nitescens, Triquetrorhabdulus milowii, Triquetrorhabdulus martinii</td></tr>
<tr><td>NN5</td><td>- 4188</td><td>Sphenolithus heteromorphus</td></tr>
</table>

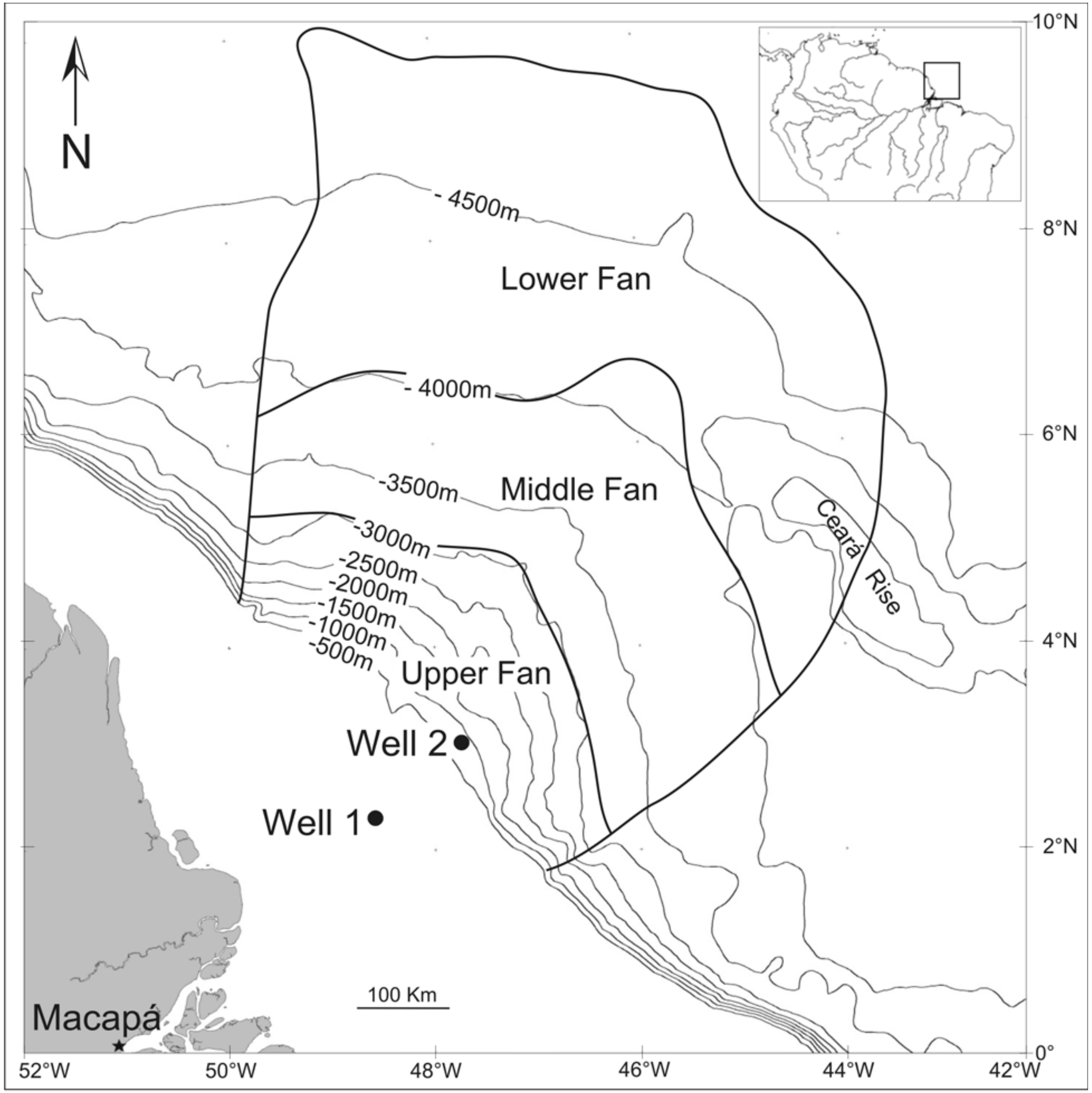


Geologic Time Scale
(Gradstein et al., 2004)
Age (Ma)
Period
Epoch
Stage
Nannofossil Standard Zonation Scheme
Martini, 1971
recalibrated to Gradstein et al., 2004
Global eustasy
Haq et al., 1988
recalibrated to
Gradstein et al., 2004
NEOGENE
PLEIST.
PLIOCENE
MIOCENE
late
early
middle
upper
middle
lower
Gelasian
Piacenzian
Zanclean
Messinian
Tortonian
Serravallian
Langhian
Burdigalian
Aquitanian
0.126
0.781
1.81
2.59
3.60
5.33
7.25
11.61
13.65
15.97
20.43
23.03
NN 21
NN 20
NN 19
NN 18
NN 17
NN 16
NN 15
NN 14
NN 13
NN 12
NN 11
NN 10
NN 9
NN 8
NN 7
NN 6
NN 5
NN 4
NN 3
NN 2
NN1

Depth (m)	Depth (m) below sea level	$^{206}Pb/^{204}Pb$	$^{207}Pb/^{204}Pb$	$^{208}Pb/^{204}Pb$	$^{206}Pb/^{207}Pb$	Sm (ppm)	Nd (ppm)	$^{147}Sm/^{144}Nd$	$^{143}Nd/^{144}Nd$	error x 10^{-6}	ξ_{Nd}	$f_{Sm/Nd}$	T_{DM} (Ga)	Age
1440	-1415	19,077	15,768	39,242	1,2112	6,73	33,69	0,12085	0,511851	48	-15,36	-0,39	1,946	Early Pliocene
1590	-1565	18,724	15,710	38,886	1,1962	7,89	38,33	0,12446	0,512021	28	-12,04	-0,37	1,734	Early Pliocene
1630	-1605					6,90	34,95	0,11936	0,512003	18	-12,39	-0,39	1,670	Late Miocene
1635	-1610	18,726	15,676	38,727	1,1960	7,62	39,60	0,11639	0,512016	19	-12,14	-0,41	1,599	Late Miocene
1710	-1685	18,681	15,661	38,673	1,1942	3,51	17,79	0,11913	0,512037	12	-11,72	-0,39	1,610	Late Miocene
1730	-1705	18,853	15,692	38,847	1,2028	5,31	27,40	0,00708	0,512045	23	-11,57	-0,40	1,565	Late Miocene
1900	-1875	18,633	15,654	38,570	1,1918	5,67	29,23	0,11724	0,512046	11	-11,55	-0,40	1,565	Late Miocene
1910	-1885	18,820	15,717	38,865	1,1988	6,36	33,19	0,11588	0,512033	15	-11,81	-0,41	1,564	Late Miocene
1995	-1970	18,860	15,716	38,955	1,2012	5,90	30,55	0,11681	0,512034	11	-11,77	-0,41	1,576	Late Miocene
2030	-2005	18,776	15,693	38,834	1,1982	6,94	35,91	0,11690	0,512031	16	-11,84	-0,41	1,583	Late Miocene
2040	-2015					6,61	34,21	0,11683	0,512027	30	-11,92	-0,41	1,588	Late Miocene
2220	-2195	19,279	15,843	39,560	1,2183	7,37	38,86	0,11463	0,511969	45	-13,04	-0,42	1,641	Middle Miocene
2225	-2200	19,242	15,824	39,514	1,2174	7,05	37,69	0,11312	0,511921	10	-13,98	-0,42	1,689	Middle Miocene
2420	-2395	19,202	15,818	39,448	1,2155									
2910	-2885	19,704	15,939	40,028	1,2359	7,93	44,60	0,10749	0,511599	27	-20,67	-0,45	2,062	Early Miocene
2938	-2913	19,667	15,929	39,961	1,2364	6,97	39,86	0,10578	0,511540	31	-21,42	-0,46	2,113	Early Miocene



Appendices 5a and 5b - (5a) Plots of $f^{Sm/Nd}$ *vs.* ξ_{nd} (5b) plot of $^{207}Pb/^{204}Pb$ *vs.* $^{206}Pb/^{204}Pb$. Modifed from figures 3 and 4 of Mc Daniel et al. (1997)



Appendix 6. Location map of the Amazon Fan in the Foz do Amazonas Basin, Brazilian Equatorial Margin. Outline and divisions of the fan are modified from Damuth et al. (1988); the base map (bathymetry and shoreline) is from Petrobras' data bank. Wells 1 and 2 are represented by black dots. Inset at the upper right corner shows the regional location of the Amazon Fan in the South American Equatorial Margin.