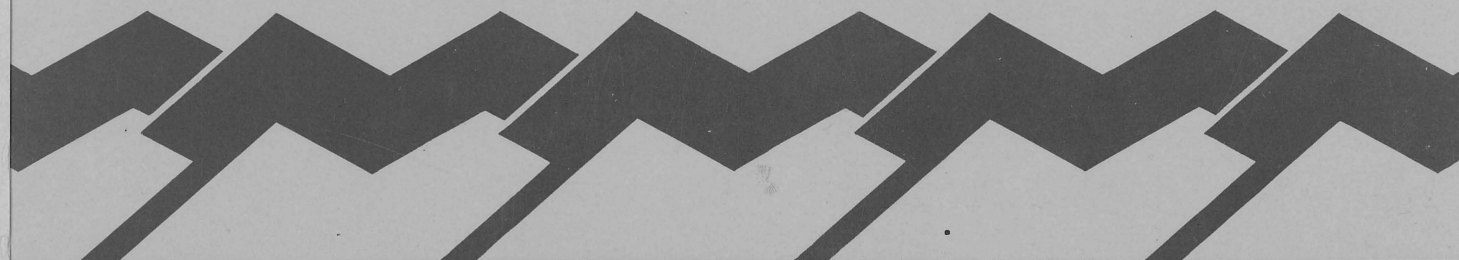




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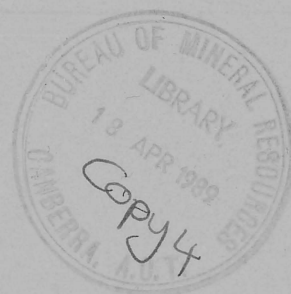
SEDIMENTOLOGICAL ANALYSES FROM DEEPSEA
CORES TAKEN OFF SOUTHWEST VICTORIA,
AND WESTERN AND SOUTHERN TASMANIA

BMR PUBLICATIONS COMPACTUS
(LENDING SECTION)

by

c-4

N.F. Exon, J.P. Stratton, H.W. Reynolds, & C. Tindall



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INTRODUCTION

Since 1985 the Bureau of Mineral Resources (BMR) has been involved in three coring cruises off southwest Victoria and Tasmania. A great amount of laboratory work has been done on the cores, generally on samples taken at 20cm intervals, by technicians in BMR's Division of Marine Geosciences and Petroleum Geology, and the aim of this record is to document the results.

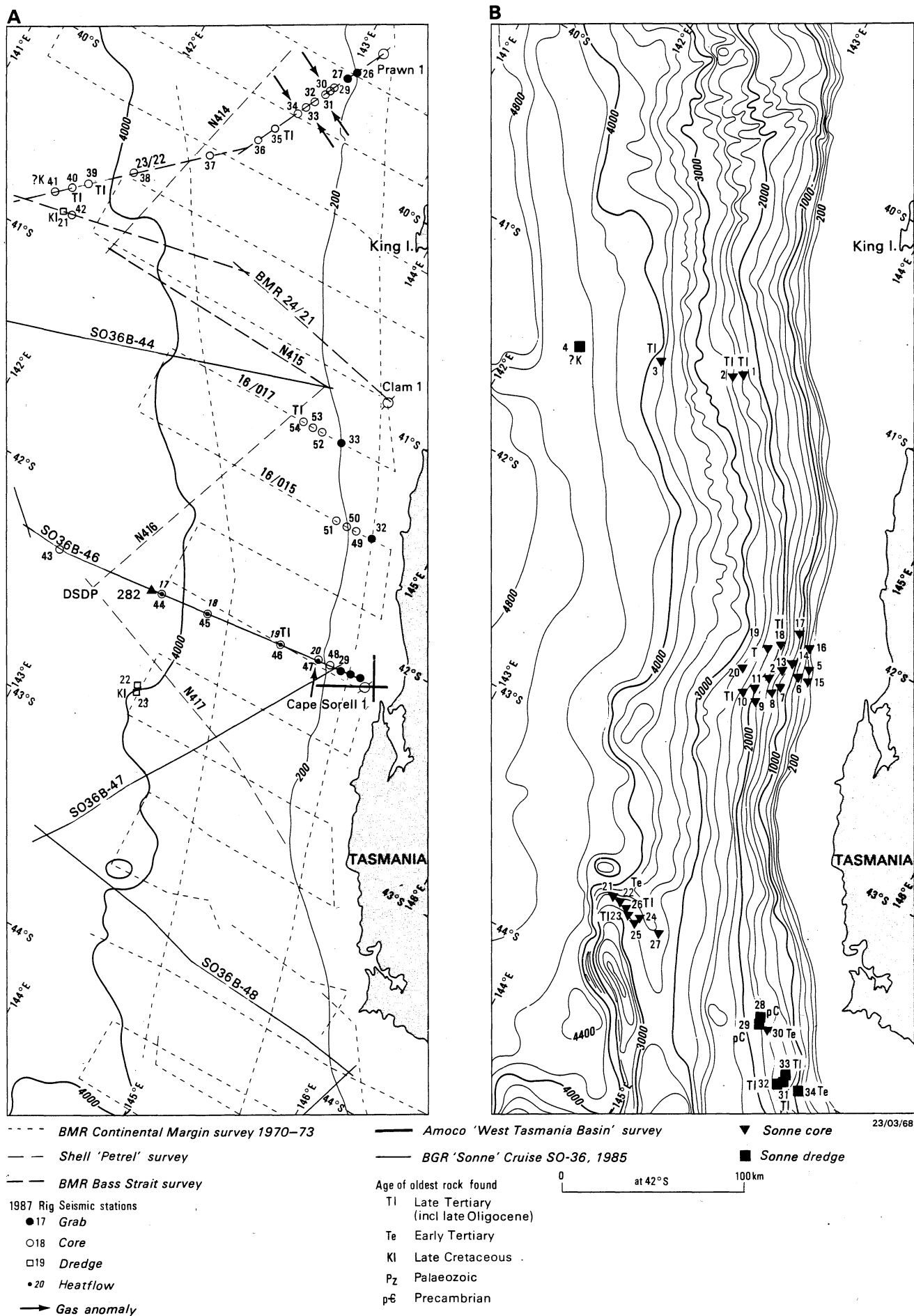
The analytical work has been designed to be complementary to other scientific studies on the cores: physical descriptions, smear slide descriptions, and palaeontological examinations. The aim of all the work has been to adequately describe the variations which have taken place with time in the cores, and to relate these back to regional and local changes in depositional environment. The final intention of the studies is to build up a model of sedimentation on the continental margin which, in conjunction with reflection seismic data, can be used to interpret depositional packages in much older sequences.

The first sampling cruise was carried out in early 1985, aboard the West German research vessel Sonne (SO-36C) in a co-operative venture between BGR (German Geological Survey) and BMR. This survey took 43 cores off west Tasmania and on the South Tasman Rise (Figures 1B and 2). These cores varied in length from 0.55m to 7.78m (Table 1), and full station data are given in Hinz et al. (1985). Bolton et al. (1988) described six cores from the South Tasman Rise containing ferromanganese crust and nodules. Grainsize and CaCO_3 analyses for 9 Sonne cores are presented in this Record.

The second sampling cruise, BMR Cruise 67, was carried out by BMR's research vessel Rig Seismic in 1987, off southwest Victoria and western Tasmania (Figures 1A and 3). This survey took 54 cores varying in length from 0.10m to 3.64m (Table 2), and full station data are given in Exon, Lee et al. (1987) and Exon, Lee et al. (1989). Grainsize and CaCO_3 analyses on 35 cores carried out at BMR are reported here, as well as TOC (Total Organic Carbon %) and CaCO_3 analyses from low in 15 cores carried out by AMDEL.

The third sampling cruise, BMR Cruise 78, was carried out by Rig Seismic in 1988, off western Tasmania (Figures 4 and 5). Altogether 38 core stations were occupied, of which 22 were successful. Core recovery varied from 0.02m to 7.33m (Table 3) and full station data will be given in Exon, Lee and Hill (1989). Grainsize and CaCO_3 analyses from 10 cores are reported here.

Figure 1 A) Seabed samples taken west of Tasmania in 1987, on Rig Seismic BMR Cruise 67. B) Seabed samples taken in 1985 on Sonne Cruise SO-36C.



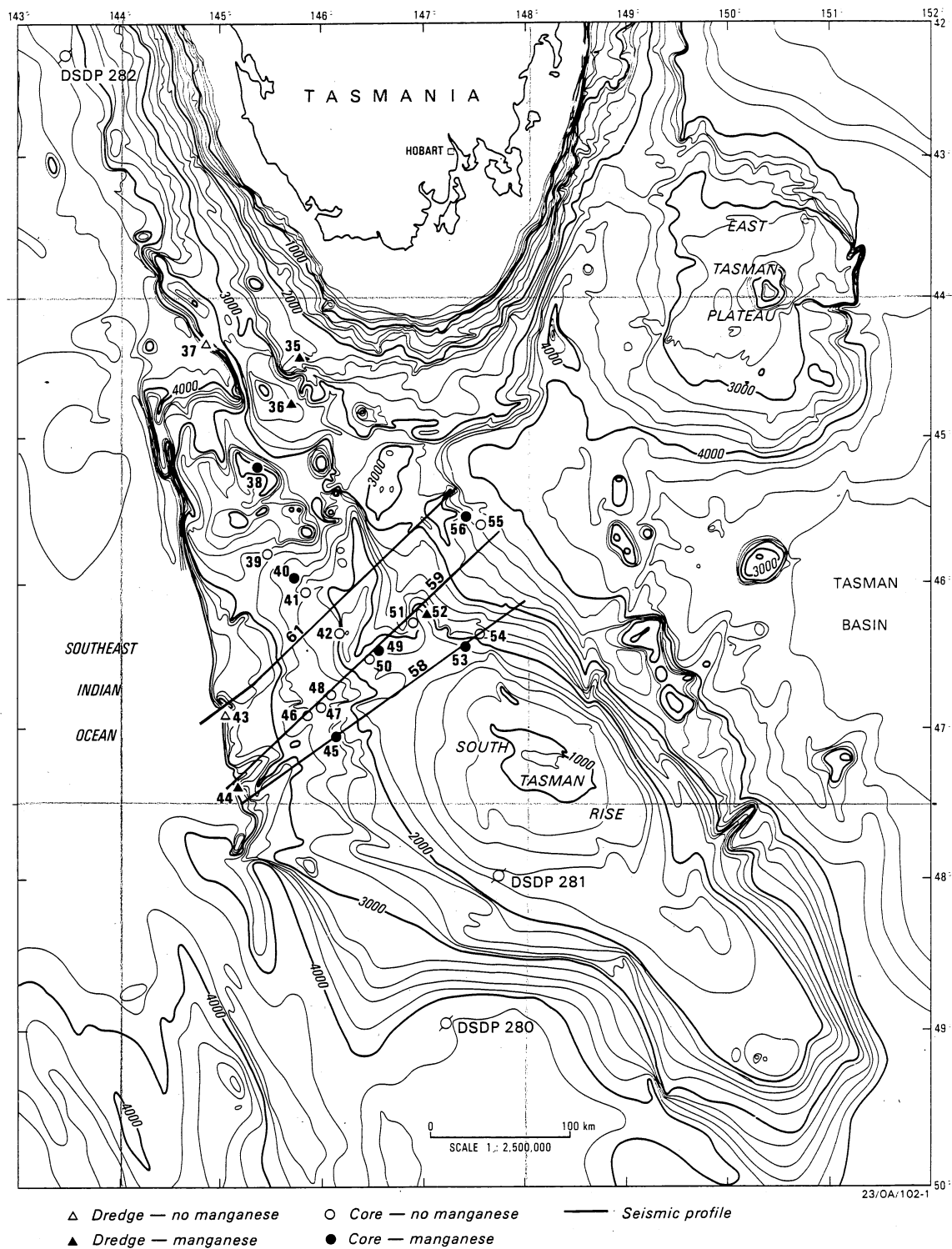
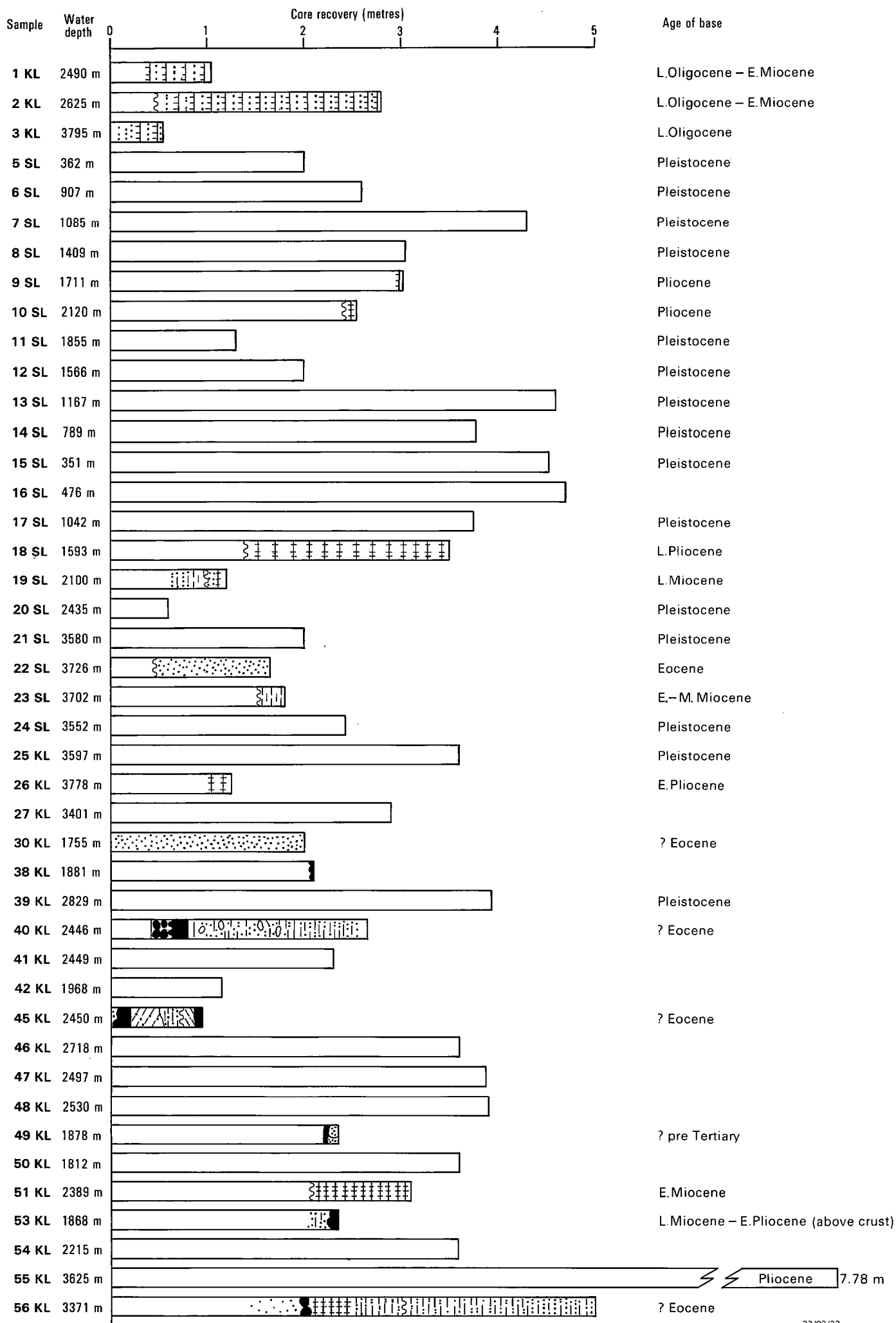


Figure 2 Seabed samples taken on South Tasman Rise in 1985 on Sonne Cruise SO-36C.



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TABLE 1 : SUMMARY OF CORE RECOVERY ON SONNE CRUISE SO-36C

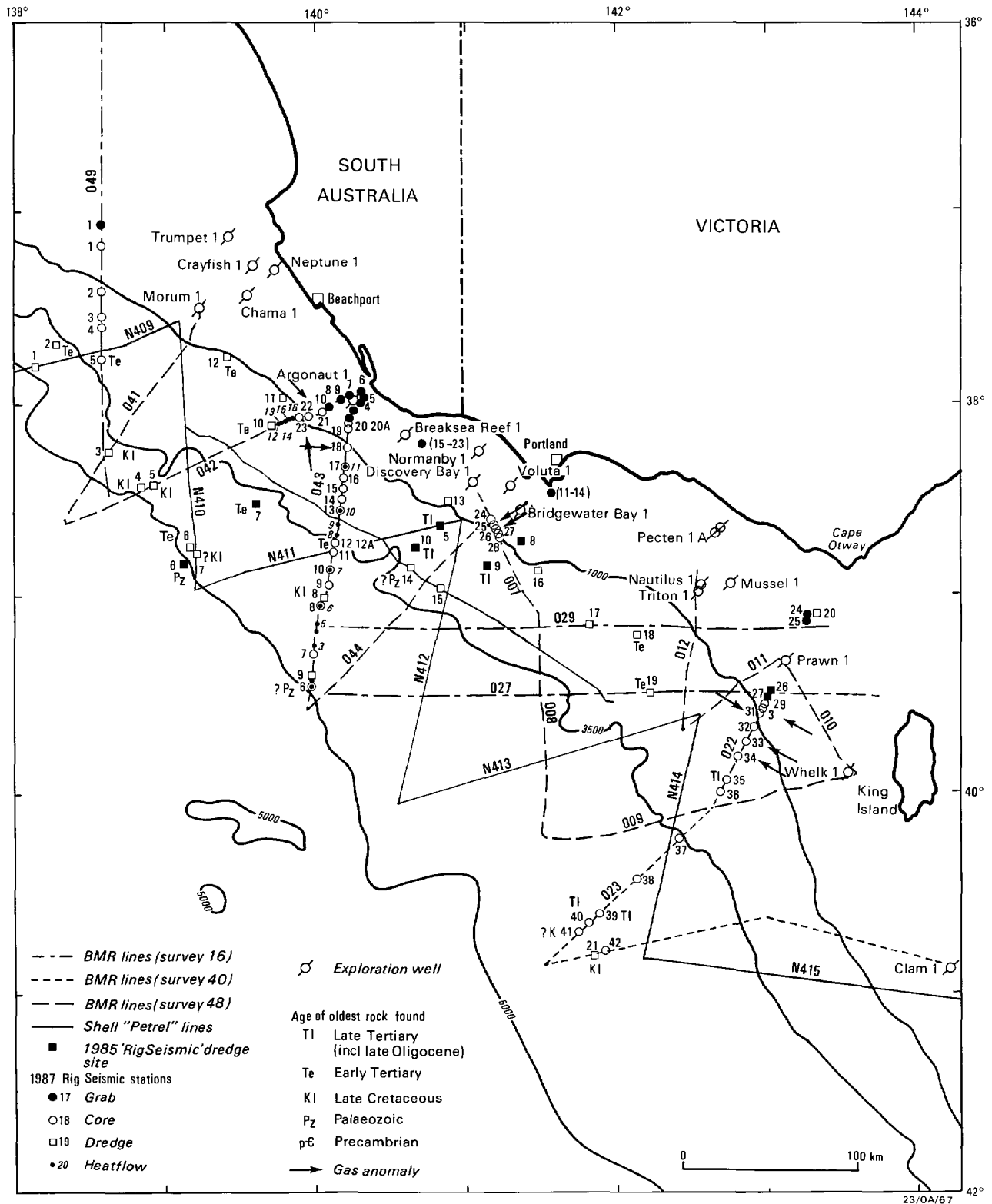
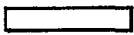
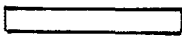
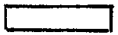
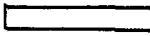
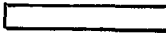
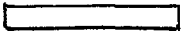
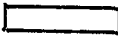
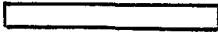
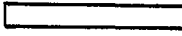
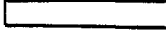
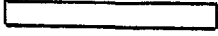
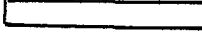
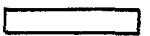
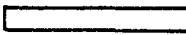
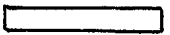
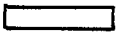
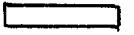
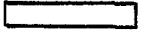
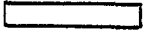
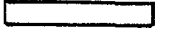
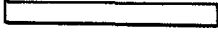
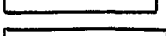
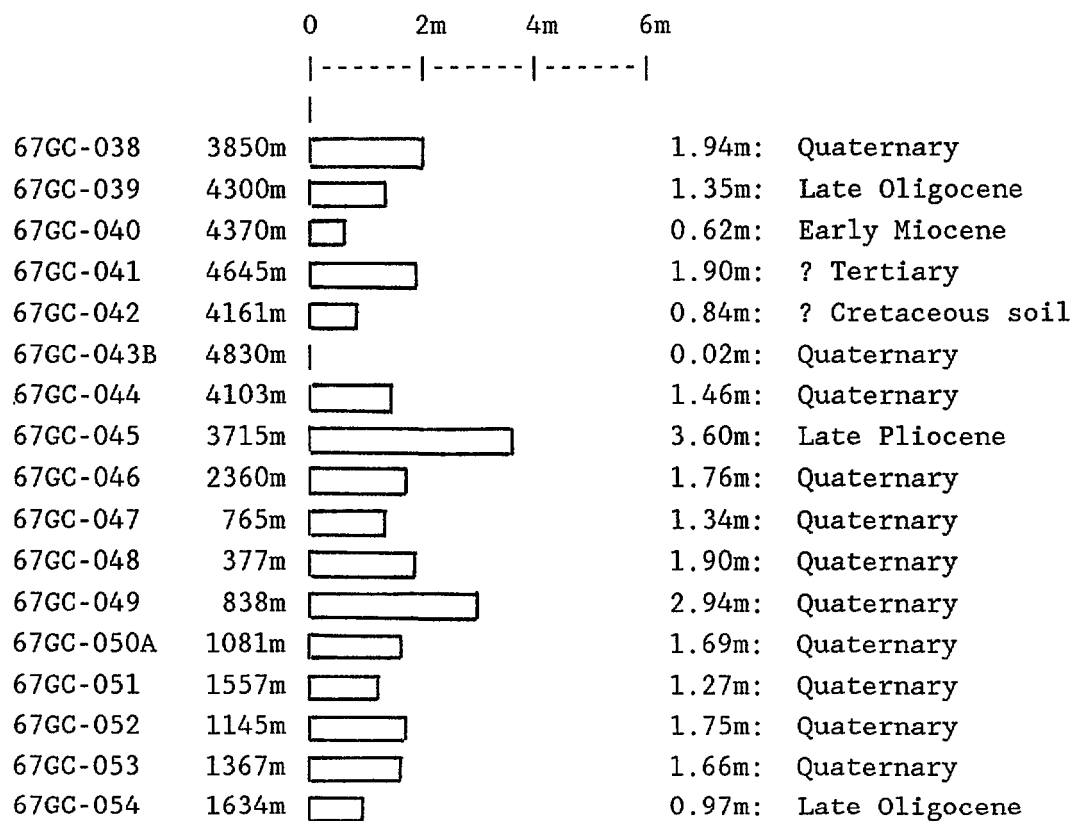


Figure 3 Seabed samples taken off South Australia and Victoria, in 1985 on Rig Seismic BMR Cruise 48, and in 1987 on Rig Seismic BMR Cruise 67.

TABLE 2: SUMMARY OF CORE RECOVERY ON BMR CRUISE 67

CORE No.	WATER DEPTH	RECOVERY (metres)	AGE (at base of core)
		0 2m 4m 6m	
		----- ----- -----	
67GC-001	425m		2.20m: Quaternary
67GC-002	1270m		0.54m: Quaternary
67GC-003	1476m		3.10m: Quaternary
67GC-004	1526m		1.84m: Quaternary
67GC-005	2235m		0.80m: Late Eocene
67GC-006	4590m		2.63m: Quaternary
67GC-007	4120m		2.87m: Quaternary
67GC-008	3980m		2.94m: Quaternary
67GC-009A	3615m		2.03m: Middle Eocene
67GC-010	3332m		3.74m: Quaternary
67GC-011	3214m		3.08m: Quaternary
67GC-012	3150m		0.10m: Middle Eocene
67GC-012A	3133m		3.06m: Quaternary
67GC-013	2525m		3.64m: Quaternary
67GC-014	2250m		3.57m: Quaternary
67GC-015	1964m		2.91m: Quaternary
67GC-016	1650m		1.96m: Quaternary
67GC-017	1490m		3.26m: Quaternary
67GC-018	1035m		2.33m: Quaternary
67GC-019	345m		1.76m: Quaternary
67GC-020	166m	NO RECOVERY	
67GC-020A	166m	NO RECOVERY	
67GC-021	315m		2.32m: Quaternary
67GC-022	1003m		3.19m: Quaternary
67GC-023	1146m		2.77m: Quaternary
67GC-024	392m		1.84m: Quaternary
67GC-025	450m		1.84m: Quaternary
67GC-026	469m		2.24m: Quaternary
67GC-027	506m		2.25m: Quaternary
67GC-028	545m		2.48m: Quaternary
67GC-029	240m		3.64m: Quaternary
67GC-030	558m		1.45m: Quaternary
67GC-031	829m		2.96m: Quaternary
67GC-032	1244m		0.93m: Quaternary
67GC-033	1433m		2.70m: Quaternary
67GC-034	1630m		2.87m: Quaternary
67GC-035	2280m		1.44m: Early-Middle Miocene
67GC-036	2182m		2.59m: Late Pliocene
67GC-037	3090m		2.75m: Quaternary



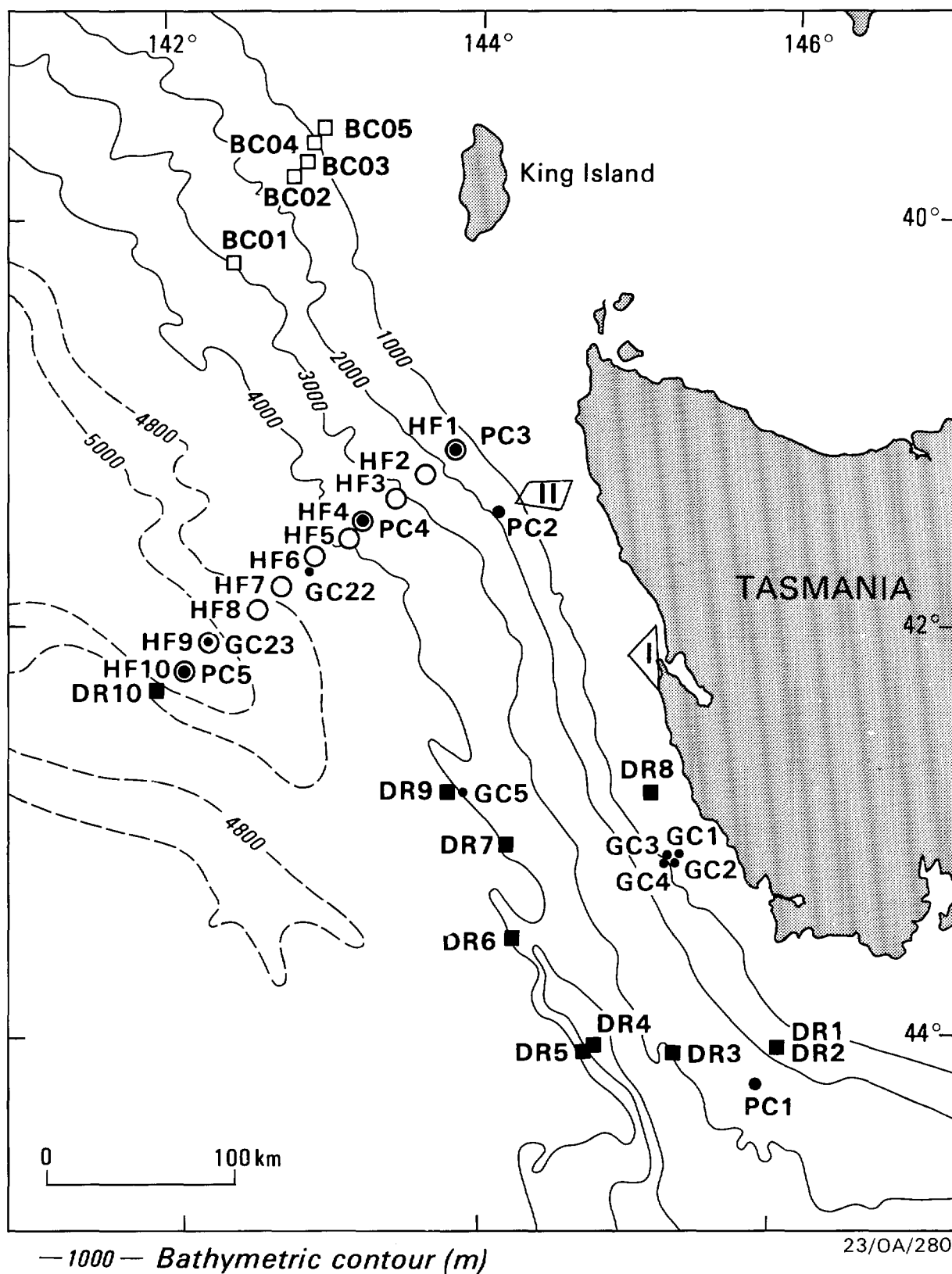


Figure 4 Seabed samples taken west of Tasmania in 1988, on Rig Seismic BMR Cruise 78. DR = dredge; GC = gravity core; PC = piston core; BC = box core; I & II = areas of more detailed sampling.

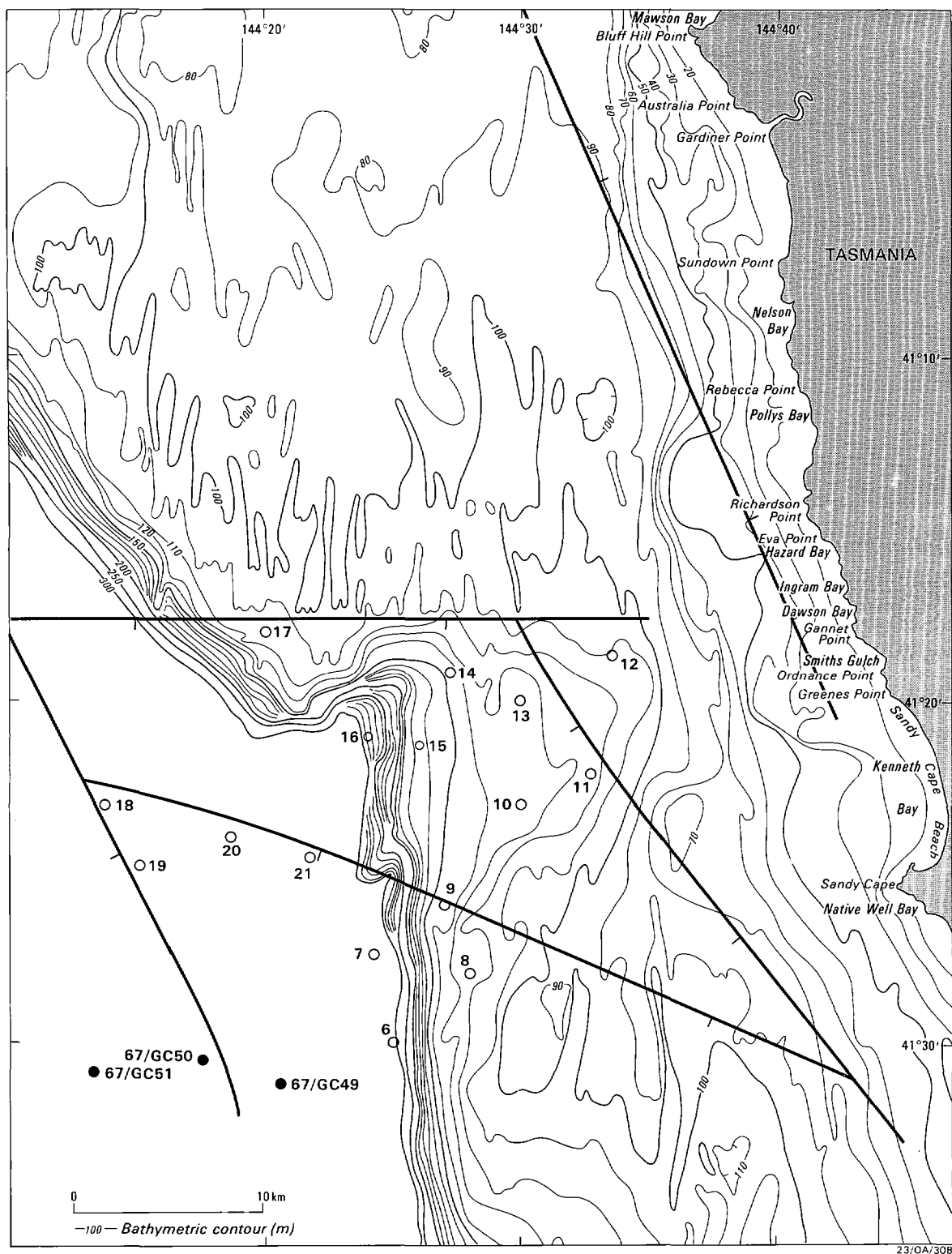
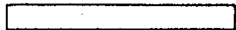
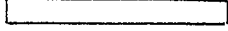
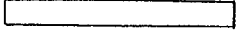
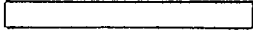
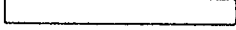


Figure 5 Gravity cores taken in detailed survey in Sandy Cape Sub-basin, west of Tasmania. Solid circles = BMR Cruise 67; open circles = BMR Cruise 78.

TABLE 3: SUMMARY OF CORE RECOVERY ON BMR CRUISE 78

CORE No.	WATER DEPTH	RECOVERY (metres)	AGE (at base of core)
		0 2m 4m 6m	
		----- ----- -----	
78GC-001	307m		2.82m: Quaternary
78GC-002	478m		0.02m: Quaternary
78GC-003	643m		0.20m: Early-Middle Miocene
78GC-004B	793m		3.83m: Quaternary
78GC-005	3530m		0.60m: Early Eocene
78GC-006	325m		3.85m: Quaternary
78GC-007	516m		3.73m: Quaternary
78GC-008	118m		0.40m: Middle Miocene
78GC-009	131m		0.10m: Middle Miocene
78GC-010	127m		0.05m: Quaternary
78GC-011	111m		0.05m: Quaternary
78GC-012	119m		0.02m: Quaternary
78GC-013	131m		0.20m: Early-Middle Miocene
78GC-014	144m		0.01m: Quaternary
78GC-015	159m		0.01m: Quaternary
78GC-016	293m		3.78m: Quaternary
78GC-017	111m		0.01m: Quaternary
78GC-018	814m		4.10m: Quaternary
78G -019	910m		3.94m: Quaternary
78GC-020	641m		0.20m: Quaternary
78GC-020A	638m	NO RECOVERY	
78GC-021	436m		1.14m: Quaternary
78GC-022	3970m		7.30m: Quaternary
78GC-023	5014m	NO RECOVERY	
78PC-001A	2270m		5.39m: Quaternary
78PC-002	1703m		6.33m: Middle-Late Miocene
78PC-003	1265m		4.94m: Quaternary
78PC-004	3569m		7.38m: Quaternary
78PC-005	5029	NO RECOVERY	

Grain Size Analysis

- 1) This analysis is carried out using the wet sieve method. The core is sampled at the required interval, and between 10 and 15 grammes of sediment is taken. The sample is transferred to a screw capped vial, which is filled with distilled water, and numbered with core and depth (sample interval).
- 2) Sieves used are:

+2 millimetre	= GRAVEL
+63 micron	= SAND
+38 micron	= SILT

the MUD fraction is the sample washed through the +38 micron sieve.
- 3) The sample is placed in an ultrasonic bath for 5 minutes before sieving to assist the dispersion of grain particles. The sample is washed through the set of sieves with distilled water, and each fraction is labelled, dried, weighed and recorded.
- 4) Each fraction's weight is added together to get a total weight, and then each fraction is expressed as a percentage of the total sample weight.

Carbonate Analysis

- 1) The sample is labelled and dried in an oven preset to 40°C for 24 hours. When dry the sample is transferred to an agate mortar and pestle and then ground into a fine powder.
- 2) 1.000 gramme of sample is weighed into a special sample container. 10.00 millilitres of concentrated hydrochloric acid is dispensed into a reaction pressure vessel (a "carbonate bomb") and the sample container floated on the acid within it. The gas-tight lid is screwed into the reaction vessel and the vessel inverted to allow the acid and sediment to mix.
- 3) Carbon dioxide gas is generated when the acid reacts with any calcium carbonate present in the sample, and the gas pressure is measured on a gauge. The technician records the pressure reading and converts it to percentage calcium carbonate by using a standard graph. The standard graph is made by recording gas pressure released from pure calcium carbonate in volumes of 0.100 to 1.00 grammes, that have been treated using the same procedures as the above.

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC006	39°30.8'	139°57.7'	4590m	263cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	Y	0.0	1.6	5.3	93.1	52.0
17-18	N	0.0	6.8	8.5	84.7	50.0
29-30	N	0.0	60.0	12.4	27.6	70.0
40-41	N	0.0	72.3	4.5	23.2	70.0
58-59	Y	0.0	1.8	0.9	97.3	20.0
79-80	N	0.0	1.2	0.9	97.9	16.0
95-96	N	0.0	0.9	0.8	98.3	22.0
109-110	Y	0.0	0.8	0.9	98.3	31.0
130-131	N	0.0	0.1	0.3	99.6	9.0
155-156	N	0.0	59.2	12.5	28.3	42.0
180-181	Y	0.0	50.1	17.2	32.7	42.0
194-195	N	0.0	3.2	2.3	94.5	30.0
220-221	Y	0.0	0.4	1.0	98.6	14.0
241-421	N	0.0	0.1	0.2	99.7	8.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC007	39°20.1'	139°59.2'	4120m	287cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
4-5	N	0.0	10.2	3.0	86.8	66.0
26-27	Y	0.0	6.0	2.5	91.5	50.0
46-47	N	0.0	9.1	5.5	85.4	45.0
66-67	Y	0.0	4.9	1.9	93.2	34.0
85-86	Y	0.0	8.3	2.6	89.1	53.0
106-107	Y	0.0	1.2	0.6	98.2	34.0
125-127	N	0.0	3.8	4.5	91.7	13.0
146-147	N	0.0	2.1	1.1	96.8	28.0
169-170	N	0.0	1.8	1.4	96.8	63.0
189-190	N	0.0	3.7	3.7	92.6	56.0
206-207	Y	0.0	2.3	1.3	96.4	70.0
229-230	N	0.0	4.2	2.6	92.2	36.0
238-239	N	0.0	3.0	1.6	95.4	56.0
266-267	Y	0.0	3.8	1.4	94.8	23.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC008	39°02.2'	140°02.9'	3980m	294cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	Y	0.0	6.8	5.7	88.5	56.0
17-18	N	0.0	8.8	5.0	86.2	59.0
34-35	Y	0.0	5.3	4.0	90.7	42.0
52-53	N	0.0	8.1	2.6	89.3	48.0
72-73	N	0.0	12.5	4.4	83.1	55.0
91-92	N	0.0	3.3	1.2	95.5	36.0
111-112	Y	0.0	8.7	3.4	87.9	55.0
130-131	N	0.0	1.9	1.0	97.1	28.0
147-148	N	0.0	3.3	2.7	94.0	42.0
155-156	Y	0.0	1.8	0.7	97.5	22.0
166-167	N	0.0	4.3	1.8	93.9	34.0
205-206	Y	0.0	6.9	3.1	90.0	50.0
218-219	N	0.0	1.2	1.3	97.5	20.0
237-238	N	0.0	4.3	1.7	94.0	37.0
254-255	N	0.0	1.8	0.8	97.4	23.0
275-276	Y	0.0	2.1	1.5	96.4	59.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC009A	38°57.1'	140°06.6'	3615m	203cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	N	0.0	7.6	4.8	87.6	61.0
14-15	N	0.0	8.3	4.5	87.2	63.0
25-26	Y	0.0	10.6	2.9	86.5	55.0
35-36	Y	0.0	16.1	2.9	81.0	56.0
45-46	Y	0.0	35.9	16.5	47.6	61.0
63-64	N	0.0	6.7	2.2	91.1	45.0
80-81	N	0.0	6.6	1.9	91.5	39.0
96-97	N	0.0	6.2	2.5	91.3	50.0
114-115	Y	0.0	5.8	2.4	91.8	48.0
135-136	N	0.0	7.7	1.5	90.8	44.0
158-159	N	0.0	6.1	1.9	92.0	53.0
174-175	Y	0.0	7.1	2.7	90.2	53.0
198-199	N	0.0	1.7	0.8	97.5	31.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC010	38°51.7'	140°6.1'	3332m	374cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	N	0.0	14.5	5.0	80.5	64.0
15-16	Y	0.0	15.8	4.0	80.2	64.0
26-27	Y	0.0	12.1	3.1	84.8	56.0
47-48	N	0.0	13.5	3.7	82.8	53.0
67-68	Y	0.0	8.5	2.5	89.0	45.0
87-88	N	0.0	10.7	3.5	85.8	50.0
107-108	N	0.0	12.3	3.6	84.1	56.0
127-128	N	0.0	7.3	2.1	90.6	45.0
147-148	N	0.0	4.2	1.9	93.9	34.0
167-168	N	0.0	10.3	2.7	87.0	53.0
188-189	N	0.0	1.7	1.3	97.0	34.0
201-202	N	0.0	2.5	1.1	96.4	31.0
228-229	N	0.0	3.7	1.8	94.5	52.0
244-245	Y	0.0	3.8	1.3	94.9	63.0
264-265	N	0.0	3.3	1.6	95.1	66.0
284-285	N	0.0	2.3	1.5	96.2	75.0
308-309	N	0.0	6.7	2.4	90.9	67.0
322-323	Y	0.0	69.0	7.4	23.6	55.0
350-351	N	0.0	4.0	1.5	94.5	77.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC011	38°45.0'	140°07.4'	3214m	308cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
3-4	N	0.0	12.9	4.6	82.5	64.0
18-19	Y	0.0	13.3	3.7	83.0	67.0
30-31	Y	0.0	14.5	4.3	81.2	61.0
47-48	N	0.0	10.1	3.1	86.8	63.0
67-68	Y	0.0	49.3	20.7	30.0	66.0
87-88	N	0.0	8.6	2.5	88.9	50.0
120-121	N	0.0	8.6	2.0	89.4	86.0
147-148	N	0.0	7.5	2.7	89.8	56.0
167-168	N	0.0	11.8	4.7	83.5	58.0
187-188	N	0.0	6.4	2.2	81.4	53.0
210-211	N	0.0	4.4	1.5	94.1	45.0
236-230	N	0.0	4.4	1.4	94.2	53.0
250-251	N	0.0	5.2	1.8	93.0	55.0
282-283	N	0.0	2.9	1.7	95.4	53.0
299-300	N	0.0	4.0	1.5	94.5	55.0
306-307	N	0.0	12.8	3.3	83.9	55.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC012A	38°42.6'	140°07.1'	3133m	306cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	N	0.0	10.9	2.3	86.8	69.0
20-21	N	0.0	13.9	3.8	83.3	66.0
36-37	Y	0.0	13.6	3.6	82.8	63.0
45-46	N	0.0	11.9	3.1	85.0	61.0
63-64	Y	0.0	9.8	2.4	87.8	52.0
77-78	N	0.0	8.3	2.4	89.3	53.0
88-89	N	0.0	7.6	2.3	90.1	47.0
103-104	N	0.0	11.0	2.2	86.8	50.0
123-124	N	0.0	4.3	1.6	94.1	38.0
143-144	N	0.0	8.3	2.7	89.0	56.0
162-163	N	0.0	9.6	2.4	88.0	56.0
182-183	Y	0.0	6.1	1.9	92.0	44.0
205-206	Y	0.0	2.5	1.0	96.5	44.0
232-233	N	0.0	11.6	2.4	86.0	47.0
244-245	N	0.0	7.1	2.1	90.8	48.0
257-258	N	0.0	5.8	1.7	92.5	55.0
288-289	N	0.1	5.7	1.5	92.7	34.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC013	38°27.9'	140°10.0'	2525m	364cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	Y	0.0	16.1	4.9	79.0	66.0
21-22	N	0.0	15.0	5.0	80.0	61.0
41-42	N	0.0	9.0	4.5	86.5	53.0
61-62	N	0.0	9.1	3.9	87.0	47.0
82-83	Y	0.0	74.1	7.4	18.5	64.0
102-103	N	0.0	7.3	3.3	89.4	44.0
122-123	N	0.0	6.0	2.6	91.4	39.0
142-143	N	0.0	7.7	3.0	89.3	38.0
162-163	N	0.0	5.4	2.3	92.3	33.0
182-183	N	0.0	6.0	2.5	91.5	47.0
208-209	N	0.0	10.6	3.4	86.0	52.0
232-233	Y	0.0	10.7	3.7	85.6	58.0
250-251	Y	0.0	8.0	2.7	89.3	47.0
269-270	N	0.0	7.5	2.3	90.2	42.0
291-292	N	0.0	5.6	1.9	92.5	39.0
309-310	N	0.0	4.0	1.4	94.6	31.0
329-330	N	0.0	6.5	3.0	90.5	47.0
346-347	N	0.0	8.1	2.5	89.4	48.0
362-363	N	0.0	7.9	2.3	89.8	41.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY		
67/GC014	38°25.4'	140°09.0'	2250m	357cms		
SAMPLE	SMEAR	%	%	%	%	%
INTERVAL	SLIDE	GRAVEL	SAND	SILT	MUD	CaCO ₃
1-2	N	0.0	13.0	4.6	82.4	69.0
21-22	N	0.0	15.9	5.2	78.9	61.0
41-42	Y	0.0	11.3	5.1	83.6	61.0
61-62	N	0.0	7.8	3.8	88.4	55.0
79-80	N	0.0	12.9	4.8	82.3	64.0
94-95	Y	0.0	51.9	3.8	44.3	67.0
114-115	N	0.0	7.1	3.7	89.2	45.0
134-135	N	0.0	7.6	3.5	88.9	44.0
154-155	N	0.0	7.6	3.2	89.2	39.0
174-175	N	0.0	8.2	2.8	89.0	44.0
194-195	N	0.0	6.2	2.3	91.5	38.0
214-215	N	0.0	8.1	3.6	88.3	50.0
234-235	N	0.0	9.9	4.5	85.6	58.0
254-255	N	0.0	10.8	4.4	84.8	64.0
273-274	N	0.0	9.3	4.2	86.5	61.0
296-297	N	0.0	5.0	35.5	59.5	
317-318	N	0.0	6.1	2.0	91.9	47.0
340-341	N	0.0	4.8	2.2	93.0	45.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY		
67/GC015	38°22.9'	140°10.6	1964m	291cms		
SAMPLE	SMEAR	%	%	%	%	%
INTERVAL	SLIDE	GRAVEL	SAND	SILT	MUD	CaCO ₃
1-2	N	0.0	13.8	4.9	81.3	69.0
21-22	N	0.0	12.8	0.6	81.6	67.0
41-42	N	0.0	12.6	5.3	82.1	64.0
61-62	N	0.0	8.3	5.1	86.6	59.0
78-79	N	0.0	9.9	4.3	85.8	59.0
92-93	N	0.1	12.7	5.3	81.9	66.0
110-111	Y	0.0	60.2	14.3	25.5	67.0
129-130	N	0.0	10.5	4.0	85.5	45.0
150-151	N	0.0	7.0	3.9	89.1	42.0
171-172	N	0.0	12.6	3.8	83.6	44.0
193-194	N	0.0	19.0	4.8	76.2	59.0
215-216	Y	0.0	18.0	5.5	76.5	64.0
241-242	N	0.0	4.1	2.8	93.1	39.0
272-273	N	0.0	6.6	3.1	90.2	59.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC016	38°20.0'	140°10.9'	1650m	196cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
5-6	Y	0.0	9.5	5.8	84.7	64.0
24-25	N	0.0	11.5	6.8	81.7	63.0
45-46	N	0.0	10.8	7.0	82.2	55.0
67-68	N	0.0	7.8	5.6	86.6	50.0
95-96	N	0.0	12.0	6.8	81.2	39.0
118-119	N	0.0	24.7	7.8	67.5	59.0
141-142	Y	0.0	5.6	3.6	90.8	39.0
166-167	N	0.0	9.3	5.8	84.9	47.0
174-175	N	0.0	8.9	3.8	87.3	42.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC017	38°17.2'	140°11.1'	1490m	326cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	Y	0.0	11.1	7.2	81.7	64.0
21-22	N	0.0	13.4	8.8	77.8	63.0
41-42	N	0.0	13.7	7.3	79.0	61.0
63-64	N	0.1	17.5	7.8	74.6	58.0
83-84	N	0.0	13.8	8.8	77.4	59.0
101-102	N	1.5	39.8	7.0	51.7	59.0
121-122	N	0.0	6.6	5.4	88.0	47.0
141-142	N	0.0	17.5	11.4	71.1	64.0
160-161	N	0.0	10.0	5.9	84.1	48.0
174-175	N	0.0	9.6	6.6	83.8	45.0
189-190	N	0.0	7.7	5.1	87.2	39.0
210-211	N	0.0	7.3	4.5	88.2	56.0
233-234	N	0.0	10.1	5.0	84.9	41.0
251-252	N	0.0	8.3	4.8	86.9	39.0
269-270	N	0.0	13.9	8.6	77.5	61.0
292-293	N	0.0	8.8	5.1	86.1	48.0
317-318	N	0.0	4.0	2.1	93.9	28.0
325-326	N	0.0	11.7	7.4	80.9	59.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC018	38°11.6'	140°11.'	1035m	233cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
5-6	Y	0.0	22.3	10.0	67.7	58.0
25-26	Y	0.0	38.2	11.5	50.3	72.0
45-46	Y	0.0	34.2	11.2	54.6	64.0
65-66	N	0.1	29.3	10.8	59.8	66.0
85-86	Y	0.3	31.2	12.2	56.3	63.0
105-106	N	0.0	39.1	11.3	49.6	66.0
135-136	N	0.0	43.4	10.9	45.7	64.0
153-154	Y	0.0	47.2	9.7	43.1	69.0
168-169	N	0.0	46.0	10.4	43.6	66.0
193-194	N	0.0	37.8	10.3	51.9	63.0
217-218	N	0.0	40.0	10.7	49.3	64.0

CORE NUMBER	LATITDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC019	38°07.2'	140°13.0'	345m	176cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
9-10	N	34.6	53.7	1.7	10.0	23.0
28-29	N	0.3	10.7	3.8	85.2	30.0
52-53	Y	0.0	7.4	2.8	89.8	27.0
67-68	N	0.2	9.2	3.3	87.3	23.0
92-93	N	0.5	8.1	3.9	87.5	80.0
112-113	N	0.0	8.9	3.7	87.4	28.0
132-133	N	1.0	9.9	3.9	85.2	30.0
153-154	N	0.3	14.5	4.9	80.3	33.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC021	37°59.4'	140°03.6	315m	232cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	N	19.2	74.3	1.4	5.1	78.0
21-22	N	4.0	58.5	9.3	28.2	73.0
41-42	N	8.3	51.0	9.1	31.6	72.0
61-62	Y	1.2	58.3	9.2	31.3	75.0
81-82	N	5.4	56.8	8.4	29.4	69.0
101-102	N	4.6	53.8	8.9	32.7	70.0
121-122	N	1.9	52.5	8.6	31.0	70.0
141-142	N	1.9	50.6	9.0	38.5	69.0
161-162	N	4.3	49.7	9.3	36.7	70.0
181-182	N	6.4	54.1	8.0	31.5	67.0
201-202	N	1.6	70.8	6.7	20.9	77.0
226-227	N	0.4	71.8	6.7	21.1	66.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC022	38°02.3'	139°58.0'	1003m	319cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	Y	0.0	22.5	9.4	68.1	70.0
21-22	N	0.0	25.4	10.6	63.0	66.0
41-42	N	0.0	31.3	10.7	58.0	67.0
61-62	N	0.0	27.4	11.9	60.7	64.0
81-82	N	0.0	28.8	11.3	59.9	66.0
101-102	N	0.0	25.3	10.0	64.7	63.0
121-122	N	0.0	28.2	10.4	64.4	67.0
141-142	N	0.0	42.2	9.3	48.5	67.0
161-162	N	0.0	27.5	10.1	62.4	64.0
181-182	N	0.0	34.3	9.8	55.9	64.0
201-201	N	0.1	44.0	8.9	47.0	65.0
221-222	N	0.0	39.8	9.5	50.7	64.0
241-242	N	1.1	50.7	8.1	40.1	66.0
260-261	Y	0.0	80.2	3.2	16.6	70.0
275-276	N	0.0	52.2	8.2	39.6	66.0
289-290	N	0.0	33.3	10.7	56.0	63.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC029	39°34.0'	142°59.0'	240m	364cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	17.2	52.4	9.9	20.5	89.0
20-21	N	25.7	48.1	4.8	21.4	84.0
40-41	N	35.4	36.9	4.8	22.9	84.0
60-61	N	23.6	49.6	4.3	22.5	83.0
80-81	N	11.3	30.6	5.4	52.7	69.0
100-101	N	13.2	30.2	5.6	51.0	63.0
120-121	N	6.5	30.1	6.7	56.7	61.0
140-141	N	26.5	33.5	5.0	35.0	67.0
160-161	N	12.2	37.5	5.0	45.3	67.0
180-181	N	14.6	29.2	5.9	50.3	67.0
200-201	N	14.4	26.0	5.8	53.8	63.0
220-221	N	13.0	31.9	4.7	50.4	64.0
240-241	N	17.3	28.3	6.5	47.9	66.0
260-261	N	18.1	29.7	3.4	46.8	67.0
280-281	N	11.6	30.1	7.8	35.5	67.0
300-301	N	20.8	28.0	6.3	44.9	69.0
320-321	N	19.3	28.8	5.2	46.7	72.0
340-341	N	17.5	34.4	5.4	42.7	73.0
360-361	N	14.9	34.9	5.2	45.0	72.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC030	39°35.0'	142°57.4'	558m	145cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.4	64.5	9.1	26.0	78.0
20-21	N	0.0	63.0	11.4	25.6	77.0
40-41	N	0.0	33.9	8.4	57.7	42.0
60-61	N	0.0	30.4	8.2	61.4	34.0
80-81	Y	0.1	24.8	8.0	67.1	34.0
100-101	N	0.0	23.9	8.2	67.9	28.0
120-121	N	0.0	18.5	7.3	74.2	27.0
135-136	N	0.0	20.0	7.3	72.7	25.0

CORE NUMBER	LATITUDE	LONTITUDE	WATER DEPTH	RECOVERY
67/GC031	39°36.0'	142°57.0'	829m	296cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	Y	0.3	57.1	12.3	30.3	77.0
20-21	N	0.5	59.5	15.1	24.9	79.0
40-41	N	0.1	32.0	13.0	54.9	70.0
60-61	N	0.2	31.4	14.5	53.9	73.0
80-81	Y	0.0	36.5	14.8	48.7	77.0
100-101	N	2.7	43.9	14.6	38.8	81.0
120-121	N	0.0	37.2	14.5	48.3	80.0
140-141	N	0.0	41.5	15.6	42.9	80.0
160-161	N	0.0	43.9	15.0	4.1	80.0
180-181	N	0.0	42.1	15.1	42.8	80.0
200-201	N	0.0	34.5	14.3	51.2	79.0
220-221	N	0.0	41.7	14.1	44.2	79.0
240-241	N	0.0	33.5	15.6	50.9	75.0
260-261	N	1.8	35.0	13.8	49.4	75.0
275-276	N	0.0	33.7	13.4	53.9	77.0
293-294	Y	0.0	33.2	4.0	52.8	75.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC032	39°40.1'	142°54.7'	1244m	93cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.0	12.1	8.6	79.3	74.0
20-21	N	0.0	11.6	10.0	78.4	72.0
40-41	Y	0.0	11.2	9.6	79.2	67.0
60-61	N	0.9	14.8	7.5	76.8	70.0
79-80	Y	2.0	18.2	8.4	71.4	64.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC033	39°45.5'	142°52.0'	1433m	270cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	Y	0.0	23.5	6.1	70.4	77.0
20-21	N	0.0	13.4	6.8	79.8	70.0
40-41	N	0.0	24.2	9.4	66.4	73.0
60-61	N	0.0	25.1	8.9	66.0	64.0
80-81	N	0.0	17.5	6.6	75.9	59.0
100-101	N	0.2	32.4	7.1	60.3	66.0
120-121	N	0.0	30.3	8.8	60.9	73.0
140-141	N	0.0	15.9	6.9	77.2	50.0
160-161	N	0.0	19.1	8.1	72.8	64.0
180-181	N	0.0	14.2	5.4	80.4	48.0
200-201	N	1.6	11.9	5.2	81.3	52.0
220-221	N	0.0	13.3	5.3	81.4	56.0
240-241	N	0.6	12.2	5.4	81.8	56.0
255-256	Y	0.0	12.6	5.2	82.2	58.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC034	39°47.7'	142°48.8'	1630m	287cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	Y	0.0	26.6	7.0	66.4	70.0
20-21	N	0.0	17.1	6.4	76.5	
40-41	Y	0.0	12.9	5.8	81.3	69.0
60-61	Y	0.0	7.4	7.7	84.9	66.0
80-81	N	0.0	84.7	1.9	13.4	84.0
100-101	N	0.5	84.1	1.4	14.0	81.0
120-121	N	0.0	18.4	8.2	73.4	71.0
140-141	Y	0.0	10.6	4.4	85.0	58.0
160-161	N	0.0	12.6	6.7	80.7	61.0
180-181	N	0.0	12.0	7.2	80.8	59.0
200-201	N	0.0	14.1	5.3	80.6	59.0
225-226	N	0.0	14.2	8.3	77.5	66.0
243-244	N	0.6	15.5	8.4	76.1	66.0
255-256	N	0.0	11.2	5.7	83.1	53.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC035	39°54.8'	142°44.2'	2280m	144cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.0	12.3	5.8	81.9	72.0
20-21	N	0.0	9.7	5.5	84.8	67.0
40-41	Y	0.0	6.6	4.2	89.2	64.0
55-56	N	0.0	9.5	4.3	86.2	66.0
69-70	Y	0.3	2.1	3.9	93.7	39.0
92-93	N	0.0	9.4	4.7	85.9	66.0
109-110	N	0.0	11.5	6.1	82.4	67.0
133-134	N	0.0	7.8	3.5	88.7	66.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC036	40°00.9'	142°40.1'	2182m	259cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.0	46.6	4.3	49.1	80.0
20-21	N	0.0	21.9	3.5	4.6	64.0
40-41	Y	0.0	22.3	2.5	75.2	38.0
60-61	N	0.0	30.4	5.1	64.5	55.0
80-81	N	0.0	39.8	2.5	57.7	55.0
97-98	N	0.0	38.6	3.1	58.3	55.0
109-110	N	0.0	14.5	3.7	81.8	64.0
125-126	Y	0.0	12.0	2.5	85.5	27.0
138-139	N	0.0	6.1	1.3	92.6	28.0
162-163	N	0.0	24.3	2.7	73.0	58.0
174-175	N	0.0	11.7	2.8	85.5	39.0
190-191	N	0.0	15.5	3.6	80.9	56.0
215-216	N	0.0	11.8	2.6	85.6	23.0
225-226	N	0.0	19.6	3.0	77.4	41.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC037	40°14.1'	142°25.2'	3090m	275cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
4-5	Y	0.0	20.4	3.8	75.8	73.0
24-25	Y	0.0	16.0	5.1	78.9	80.0
44-45	N	0.0	11.0	2.1	86.9	50.0
64-65	N	0.0	11.8	2.4	85.8	58.0
84-85	Y	0.0	11.3	2.9	85.8	55.0
104-105	N	0.0	13.7	4.0	82.3	58.0
124-125	N	0.0	11.5	3.2	85.3	58.0
144-145	N	0.0	9.2	2.7	88.1	58.0
164-165	N	0.0	9.1	2.8	88.1	45.0
193-194	N	0.0	5.1	1.9	93.0	39.0
213-214	N	0.0	16.2	4.5	79.3	59.0
238-239	N	0.0	4.4	1.6	94.0	38.0
259-260	N	0.0	4.3	2.0	93.7	33.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC038	40°27.9'	142°04.9'	3850m	194cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.0	6.3	3.7	90.0	66.0
21-22	Y	0.0	17.5	5.1	77.4	70.0
35-36	Y	0.0	75.0	3.9	21.1	55.0
55-56	Y	0.2	84.6	1.3	13.9	83.0
75-76	Y	0.0	13.6	4.4	82.0	56.0
95-96	N	0.0	9.2	2.4	88.4	47.0
115-116	N	0.0	4.4	1.5	94.1	52.0
135-136	Y	0.0	32.8	5.9	61.3	56.0
156-157	Y	0.1	74.4	5.7	19.8	73.0
178-179	N	0.0	6.2	1.8	92.0	48.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC039	40°37.9'	141°50.1'	4300m	135cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.1	13.1	3.1	83.7	44.0
21-22	N	0.0	7.7	2.7	89.6	48.0
33-34	N	0.0	7.8	2.1	90.1	44.0
46-47	N	0.0	4.5	1.5	94.0	39.0
66-67	N	0.0	12.0	4.9	83.1	52.0
81-82	N	0.0	6.5	2.3	91.2	50.0
99-100	N	0.0	3.3	1.5	95.2	20.0
121-122	N	0.0	65.6	11.6	22.8	69.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC040	40°41.5'	141°46.4'	4370m	62cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.0	6.0	5.3	88.7	56.0
16-17	N	0.0	9.8	3.9	86.3	36.0
27-28	N	0.0	2.7	2.9	94.4	17.0
43-44	N	0.0	0.2	3.3	96.5	25.0
60-61	N	0.0	2.8	10.6	86.6	28.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC041	40°43.8'	141°42.4'	4645m	190cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.0	5.9	3.7	90.4	41.0
10-11	N	0.0	26.9	11.0	62.1	64.0
18-19	N	0.0	79.8	5.1	15.1	77.0
27-28	N	0.0	85.5	2.1	12.4	83.0
35-36	N	0.0	8.7	1.9	89.4	47.0
53-54	N	0.0	29.5	24.7	45.8	59.0
73-74	N	0.0	69.8	9.8	20.4	72.0
87-88	N	0.0	5.9	2.6	91.5	61.0
103-104	N	0.0	5.6	4.4	90.0	27.0
118-119	N	0.0	1.5	1.9	96.6	
135-136	N	8.4	19.3	6.1	66.2	36.0
154-155	N	0.1	1.9	0.9	97.1	19.0
170-171	N	0.0	1.5	0.9	97.6	22.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC042	40°49.6'	141°48.8'	4161m	84cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
6-7	Y	2.0	26.5	3.8	67.7	64.0
19-20	N	2.1	14.7	2.9	80.3	30.0
34-35	Y	0.0	2.9	0.8	96.3	9.0
48-49	N	0.6	3.0	1.1	95.3	8.0
62-63	N	3.9	2.8	11.0	82.3	8.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC044	42°14.8'	142°31.6'	4103m	146cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	N	0.0	5.1	2.8	92.1	73.0
21-22	N	0.0	7.6	2.7	89.7	64.0
35-36	N	0.0	50.5	3.4	46.1	69.0
50-51	N	0.0	9.5	2.5	88.0	56.0
66-67	N	0.0	12.6	2.6	83.8	56.0
90-91	N	0.0	11.7	4.3	84.0	59.0
108-109	N	0.0	12.4	3.0	84.6	63.0
124-125	N	0.3	88.3	1.0	10.4	89.0
145-146	N	0.0	45.3	17.4	37.3	75.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC045	42°13.6'	142°52.5'	3715m	360cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
4-5	N	0.0	9.0	3.9	87.1	78.0
24-25	N	0.0	11.1	2.7	86.2	61.0
44-45	N	0.0	16.0	3.6	80.4	64.0
64-65	N	0.0	12.5	3.4	84.1	59.0
84-85	N	0.0	12.0	2.6	85.4	55.0
105-106	N	0.0	9.4	2.8	87.8	55.0
126-127	N	0.0	12.1	3.1	84.8	59.0
147-148	N	0.0	6.1	1.9	92.0	56.0
166-167	N	0.0	9.5	2.0	88.5	63.0
185-186	N	0.0	3.8	1.6	94.6	42.0
205-206	N	0.0	5.6	1.9	92.5	72.0
227-228	N	0.0	10.6	2.0	87.4	53.0
252-253	N	0.0	4.5	1.6	93.9	59.0
273-274	N	0.0	4.7	1.8	93.5	61.0
291-292	N	0.0	6.1	1.4	92.5	56.0
309-310	N	0.0	3.7	1.1	95.2	30.0
341-342	N	0.0	6.2	1.6	92.2	44.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC046	42°12.1'	144°24.8'	2360m	176cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	Y	0.0	40.1	4.4	55.5	80.0
29-30	N	0.0	9.9	4.9	85.2	67.0
48-49	N	0.0	13.5	3.4	83.1	59.0
67-68	N	0.0	13.1	2.9	84.0	64.0
98-99	Y	30.1	56.3	2.2	11.4	92.0
115-116	N	0.0	11.4	3.9	84.7	83.0
130-131	Y	0.0	13.0	4.7	82.3	88.0
149-150	N	0.0	18.0	5.6	76.4	89.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC047	42°10.6'	144°40.9	765m	134cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
1-2	Y	5.0	58.8	14.9	21.3	84.0
22-23	N	2.1	42.8	14.8	40.3	81.0
40-41	N	0.0	23.3	17.2	59.5	78.0
56-57	N	2.4	36.6	12.9	48.1	78.0
67-68	N	0.5	25.5	11.5	62.5	67.0
90-91	Y	0.0	19.3	10.4	70.3	70.0
109-110	N	0.0	20.3	13.7	66.0	75.0
131-132	N	0.0	19.2	13.3	67.5	73.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
67/GC048	42°10.8'	144°44.3'	377m	190cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
3-4	N	18.1	50.2	4.3	27.4	84.0
22-23	N	9.2	25.4	5.2	60.2	61.0
42-43	N	8.0	17.1	5.9	69.0	64.0
53-64	N	5.3	14.7	5.8	74.2	61.0
83-84	N	10.3	22.8	6.9	60.0	72.0
98-99	N	10.1	25.3	6.1	58.5	70.0
129-130	N	11.5	15.3	6.4	66.8	69.0
156-157	N	1.0	25.8	7.2	66.0	70.0
185-186	N	10.8	23.8	5.4	60.0	78.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
78/PC001A	44°19.9'	145°53.0'	2270m	539cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
13-14	N	0.0	56.5	7.9	35.6	77.0
63-64	N	0.0	89.4	2.1	8.5	83.0
113-114	N	0.0	46.7	7.5	45.8	80.0
163-164	N	0.0	39.7	7.1	53.2	77.0
213-214	N	0.0	46.8	7.5	45.7	83.0
263-264	N	0.0	84.6	2.7	12.7	83.0
302-303	N	0.0	92.0	1.2	6.8	83.0
313-314	N	0.0	56.7	5.6	37.7	83.0
363-364	N	0.0	58.0	6.9	35.1	77.0
413-413	N	0.0	47.0	8.2	44.8	80.0
463-464	N	0.0	50.5	6.8	42.7	80.0
520-521	N	0.0	61.9	7.1	31.0	80.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
78/PC002	41°30.0'	144°06.2'	1703m	633cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
20-21	Y	0.0	12.6	7.4	80.0	
40-41	Y	0.0	19.0	10.2	70.8	
60-61	Y	0.0	16.8	7.0	76.2	
80-81	Y	0.0	15.0	8.0	77.0	
100-101	Y	0.0	12.3	5.2	82.5	
240-241	Y	0.0	32.2	6.5	61.3	
260-261	Y	0.0	36.5	6.2	57.3	
280-281	Y	0.0	34.8	6.5	58.7	
300-301	Y	0.0	27.5	7.8	67.7	
310-311	Y	0.0	22.1	6.5	71.4	
320-321	Y	0.0	7.5	6.4	86.1	
340-341	Y	0.0	13.3	11.5	75.2	
360-361	Y	0.0	17.8	6.6	75.6	
380-381	Y	0.0	12.4	4.2	83.4	
400-401	Y	0.0	13.2	5.9	80.9	
420-421	Y	0.0	14.9	7.6	77.5	
440-441	Y	0.0	19.3	8.1	72.6	
460-461	Y	0.0	17.4	4.3	78.3	
480-481	Y	0.0	18.4	5.5	76.1	
500-501	Y	0.0	8.6	21.7	69.7	
520-521	Y	0.0	9.4	47.3	43.3	
540-541	Y	0.0	7.2	40.1	52.7	
560-561	Y	0.0	6.8	68.7	24.5	
580-581	Y	0.0	11.0	37.7	51.3	
600-601	Y	0.0	9.5	33.0	57.5	
620-621	Y	0.0	14.7	24.0	61.3	
630-631	Y	0.0	14.4	22.5	63.1	

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
78/PC003	41°06.9'	143°50.0'	1265m	494cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
3-4	N	0.0	28.2	10.0	61.8	67.0
50-51	N	0.5	12.3	9.7	77.5	67.0
104-105	N	0.0	26.6	11.0	68.4	57.0
150-151	N	0.0	15.7	10.9	73.4	53.0
204-205	N	0.0	14.1	9.9	76.0	57.0
250-251	N	0.0	15.9	9.1	75.0	67.0
304-305	N	0.0	14.2	9.7	76.1	67.0
350-351	N	0.0	18.1	10.9	71.0	63.0
405-406	N	0.0	16.8	10.6	72.6	67.0
484-485	N	0.0	9.9	7.6	82.5	67.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
78/PC004	41°30.3'	143°13.6'	3560m	738cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
2-3	N	0.0	20.6	4.0	75.4	77.0
25-26	N	0.0	19.0	3.5	77.5	59.0
50-51	N	0.0	12.6	2.9	84.5	47.0
75-76	N	0.0	18.2	3.6	78.2	68.0
95-96	N	0.0	16.1	3.3	80.6	68.0
100-101	N	0.0	13.3	3.0	83.7	57.0
125-126	N	0.0	6.4	1.9	91.7	59.0
150-151	N	0.0	14.3	2.6	83.1	57.0
175-176	N	0.0	9.6	3.6	86.8	51.0
200-201	N	0.0	9.4	2.7	87.9	53.0
225-226	N	0.0	8.9	3.1	88.0	71.0
250-251	N	0.0	10.6	3.7	85.7	60.0
275-276	N	0.0	10.5	2.5	87.0	64.0
300-301	N	0.0	14.9	2.5	82.6	53.0
322-323	N	0.0	42.3	8.9	48.8	69.0
350-351	N	0.0	5.7	1.4	92.9	23.0
375-375	N	0.0	9.0	3.1	87.9	49.0
400-401	N	0.0	9.8	2.9	87.3	33.0
420-421	N	0.0	13.1	3.7	83.2	59.0
450-451	N	0.0	7.1	2.2	90.7	33.0
465-466	N	7.5	44.8	3.7	44.0	60.0
480-481	N	0.0	7.2	2.1	90.7	69.0
500-501	N	0.0	4.8	1.6	93.6	70.0
524-525	N	0.0	7.8	2.3	89.9	76.0
550-551	N	0.0	12.0	2.5	85.5	50.0
561-562	N	2.4	27.2	6.0	64.4	69.0
575-576	N	0.0	11.5	2.4	86.1	69.0
600-601	N	0.0	5.9	1.2	92.9	60.0
626-626	N	0.0	3.6	1.5	94.9	93.0
650-651	N	0.0	5.3	2.6	92.1	83.0
676-677	N	4.2	5.9	1.5	88.4	83.0
710-711	N	0.0	10.7	1.7	87.6	77.0
715-716	N	0.0	11.6	1.9	86.5	76.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
78/GC004B	43°09.8'	145°12.4'	793m	383cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
5-6	N	0.0	80.8	6.5	12.7	73.0
24-25	N	0.2	59.7	11.9	28.2	67.0
40-41	N	0.1	42.4	13.2	44.3	63.0
60-61	N	1.3	46.3	10.5	41.9	67.0
80-81	N	0.1	44.3	9.0	46.6	67.0
100-101	N	0.1	62.3	8.3	29.3	80.0
120-121	N	0.0	67.7	6.7	25.6	80.0
140-141	N	0.3	63.7	9.2	26.8	77.0
160-161	N	0.1	55.4	9.6	34.9	80.0
180-181	N	0.1	58.3	8.4	33.2	77.0
200-201	N	0.4	51.1	10.9	37.6	77.0
220-221	N	0.6	47.9	10.7	40.8	77.0
240-241	N	0.5	47.1	10.8	41.6	73.0
260-261	N	0.0	48.7	10.0	41.3	73.0
280-281	N	0.4	42.7	10.4	46.5	73.0
300-301	N	0.0	25.9	9.7	74.4	67.0
320-321	N	0.2	28.5	8.7	62.6	57.0
340-341	N	0.1	29.4	9.3	61.2	60.0
360-361	N	0.0	31.8	8.9	59.3	67.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
78/GC007	41°30.0'	144°24.0'	516m	373cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
5-6	N	3.2	76.1	4.5	16.2	67.0
50-51	N	0.1	58.8	7.3	33.8	73.0
100-101	N	0.1	59.1	7.9	32.9	78.0
150-151	N	0.0	65.8	5.5	28.7	77.0
200-201	N	0.0	58.9	6.5	34.6	70.0
250-251	N	0.0	63.0	6.0	31.0	73.0
300-301	N	0.0	64.8	6.5	28.7	73.0
345-346	N	0.0	69.0	5.3	25.7	77.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
78/GC016	41°21.0'	144°24.0'	293m	378cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
2-3	N	0.5	42.5	11.5	45.5	76.0
6-7	N	2.1	70.6	6.4	20.9	70.0
25-26	N	1.7	49.0	8.7	40.6	76.0
51-52	N	1.6	53.5	9.9	35.9	66.0
52-53	N	4.0	57.0	9.4	29.6	86.0
95-96	N	4.3	77.3	3.8	14.6	93.0
100-101	N	4.3	53.5	8.0	34.2	63.0
102-103	N	3.0	44.0	7.4	45.6	89.0
125-126	N	0.4	33.6	12.8	53.2	79.0
150-151	N	0.9	36.9	13.8	48.4	77.0
152-153	N	0.5	38.4	13.7	47.4	84.0
198-199	N	0.0	22.8	22.4	54.8	76.0
201-202	N	0.2	27.8	16.4	55.6	73.0
202-203	N	0.0	29.8	15.7	54.5	76.0
225-226	N	0.0	25.4	16.0	58.6	76.0
250-251	N	0.0	27.7	15.6	56.7	70.0
252-253	N	0.0	27.6	16.3	56.1	76.0
298-299	N	0.0	34.8	19.8	45.4	76.0
300-301	N	0.9	37.0	14.1	47.0	70.0
302-302	N	0.0	28.4	17.0	54.6	74.0
325-326	N	0.0	33.9	16.0	50.1	74.0
348-349	N	0.1	44.6	18.3	37.0	73.0
352-353	N	0.0	40.4	16.2	43.4	76.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
78/GC018	41°23.1'	144°14.0'	814m	410cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
3-4	N	0.0	61.1	15.7	23.2	80.0
60-61	N	0.1	13.0	8.6	78.3	60.0
160-161	N	0.0	21.5	18.7	59.8	77.0
260-261	N	0.0	19.4	12.1	68.5	63.0
360-361	N	0.0	13.9	10.8	75.3	67.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY		
78/GC019	41°24.8'	144°15.1'	910m	394cms		
SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
6-7	N	0.1	44.8	19.7	35.4	67.0
50-51	N	0.0	15.6	15.0	69.4	70.0
100-101	N	0.0	8.1	9.0	82.9	57.0
150-151	N	0.0	16.8	15.0	68.2	73.0
199-200	N	0.0	18.9	14.2	66.9	70.0
250-251	N	0.0	11.9	8.4	79.7	60.0
299-300	N	0.3	12.8	10.5	76.4	70.0
344-345	N	0.1	13.0	10.1	76.8	67.0
386-387	N	0.0	15.5	12.0	72.5	73.0
CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY		
78/GC022	41°45.3'	142°50.5'	3970m	730cms		
SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
120-121	N	0.0	8.6	2.0	89.4	86.0
202-203	N	0.0	9.7	2.4	87.9	49.0
226-227	N	0.0	17.3	5.2	77.5	66.0
250-251	N	0.0	21.7	5.8	72.5	52.0
298-299	N	0.0	12.5	2.8	84.7	69.0
302-303	N	0.0	6.6	2.2	91.2	26.0
326-327	N	0.0	10.8	3.9	85.3	59.0
350-351	N	0.0	14.2	2.9	82.9	86.0
376-377	N	0.0	16.8	3.9	79.3	76.0
398-399	N	0.0	7.0	2.4	90.6	49.0
402-403	N	0.0	6.4	2.8	90.8	36.0
426-427	N	0.0	7.6	2.0	90.4	49.0
450-451	N	0.0	2.9	1.1	96.0	16.0
476-477	N	0.0	12.0	3.6	84.4	39.0
497-498	N	0.0	7.0	2.4	90.6	29.0
502-503	N	0.0	12.2	4.5	83.3	76.0
527-528	N	0.0	7.9	2.3	89.8	83.0
560-561	N	0.0	4.8	1.9	93.3	49.0
580-581	N	0.0	10.2	5.3	84.5	32.0
602-603	N	0.0	5.6	2.1	92.3	69.0
625-626	N	0.0	6.0	2.2	91.8	72.0
650-651	N	0.0	5.5	1.6	92.9	52.0
675-676	N	0.0	11.2	4.0	84.8	52.0
698-699	N	0.0	11.5	3.6	84.9	83.0
702-703	N	0.0	5.3	3.1	91.6	52.0
725-726	N	0.0	8.0	1.7	90.3	79.0
730-731	N	0.0	8.8	2.2	89.0	63.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-02 KL	41°06.2'	143°21.9'	2625m	280cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	Y	0.0	36.8	11.1	52.1	75.0
20-21	Y	0.0	23.7	9.5	66.8	76.0
38-39	Y	0.0	36.4	9.5	54.1	67.0
43-44	Y	0.0	89.8	3.0	7.2	87.0
60-61	Y	0.0	15.7	9.6	74.7	25.0
80-81	Y	0.0	6.1	5.0	88.9	28.0
100-101	Y	0.0	2.1	8.8	89.1	30.0
120-121	Y	0.0	2.8	5.9	91.3	33.0
140-141	Y	0.0	1.1	5.6	93.3	40.0
160-161	Y	0.0	0.9	5.1	94.0	45.0
180-181	Y	0.0	1.2	7.5	91.3	30.0
198-199	Y	0.0	0.6	7.8	91.6	20.0
220-221	Y	0.0	5.9	10.9	83.2	14.0
240-241	Y	0.0	0.8	10.4	88.8	14.0
260-261	Y	0.0	4.6	13.3	82.1	13.0
270-271	Y	0.0	3.3	7.8	88.9	18.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-13 KL	42°14.3'	144°37.4'	1167m	460cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
10-11	Y	0.0	38.6	12.8	48.6	79.0
29-30	Y	0.0	42.9	13.6	43.5	73.0
50-51	Y	0.0	16.0	8.9	75.1	70.0
66-67	Y	0.0	28.3	9.9	61.8	73.0
95-96	Y	0.0	31.9	12.4	55.7	76.0
110-111	Y	0.0	29.9	8.7	61.4	76.0
130-131	Y	0.0	32.1	6.2	61.7	80.0
148-149	Y	0.0	14.9	8.0	77.1	70.0
170-171	Y	0.0	13.8	7.9	78.3	70.0
190-191	Y	0.0	11.0	7.7	81.3	65.0
220-221	Y	0.0	41.1	21.2	37.7	70.0
250-251	Y	0.0	44.8	10.9	44.3	70.0
269-270	Y	0.0	46.2	12.9	40.9	71.0
290-291	Y	0.0	46.7	13.0	40.3	65.0
310-311	Y	0.0	46.4	14.8	38.8	49.0
329-330	Y	0.0	61.9	11.0	27.1	62.0
350-351	Y	0.0	67.9	10.4	21.7	82.0
370-371	Y	0.0	46.5	11.1	42.4	65.0
400-401	Y	0.0	39.1	13.1	47.8	67.0
425-426	Y	0.0	30.4	26.9	42.7	73.0
444-446	Y	0.0	32.3	16.4	51.3	70.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-22 SL	43°36.9'	144°25.1'	3726m	165cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	Y	0.0	47.1	9.1	43.8	85.0
20-21	Y	0.0	55.5	7.2	37.3	67.0
40-41	Y	0.0	46.4	8.6	45.0	65.0
70-71	Y	0.0	17.2	17.0	65.8	0.0
80-81	Y	0.0	50.0	14.5	35.5	0.0
100-101	Y	0.0	50.7	9.8	39.5	2.0
120-121	Y	0.0	36.1	13.9	50.0	4.0
140-141	Y	0.0	42.5	10.2	47.3	0.0
155-156	Y	0.0	47.4	11.2	41.4	9.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-23 KL	43°38.3'	144°30.7'	3702m	180cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
8-9	Y	0.0	19.1	11.4	69.5	79.0
25-26	Y	0.0	22.1	13.4	64.5	71.0
50-51	Y	0.0	21.5	12.8	65.7	60.0
75-76	Y	0.0	19.5	10.4	70.1	63.0
94-95	Y	0.0	19.1	14.8	66.1	59.0
118-119	Y	0.0	11.9	2.2	85.9	49.0
150-151	Y	0.0	4.6	7.3	88.1	52.0
170-171	Y	0.0	33.4	13.0	53.6	59.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-40 KL	45°58.6'	145°43.7'	2446m	265cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	Y	0.0	75.8	4.6	19.6	90.0
40-41	Y	0.0	82.7	3.0	14.3	36.0
100-101	Y	0.0	76.1	2.7	21.2	0.0
150-151	Y	0.0	82.2	3.7	14.1	0.0
180-181	Y	0.0	70.6	4.2	25.2	0.0
200-201	Y	0.0	39.0	21.8	39.2	0.0
250-251	Y	0.0	2.6	5.1	92.3	0.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-48 KL	46°45.8'	146°10.2'	2540m	390cms

SAMPLE	SMEAR	%	%	%	%	%
INTERVAL	SLIDE	GRAVEL	SAND	SILT	MUD	CaCO ₃
10-11	Y	0.0	48.4	7.3	44.3	95.0
28-29	Y	0.0	65.0	5.0	30.0	90.0
50-51	Y	0.0	69.2	4.7	26.1	90.0
70-71	Y	0.0	57.9	6.5	35.6	90.0
92-93	Y	0.0	55.1	5.4	39.5	97.0
110-111	Y	0.0	50.5	3.1	46.4	94.0
130-131	Y	0.0	36.0	4.2	59.8	92.0
153-154	Y	0.0	47.5	5.4	47.1	94.0
170-171	Y	0.0	61.9	4.7	33.4	95.0
190-191	Y	0.0	45.2	5.4	49.4	95.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-51 KL	46°17.7'	146°52.1'	2398m	310cms

SAMPLE	SMEAR	%	%	%	%	%
INTERVAL	SLIDE	GRAVEL	SAND	SILT	MUD	CaCO ₃
25-26	Y	0.0	74.9	5.9	19.2	95.0
50-51	Y	0.0	89.5	2.9	7.6	95.0
66-67	Y	0.0	80.6	5.9	13.5	95.0
75-76	Y	0.0	94.6	1.6	3.8	94.0
87-88	Y	0.0	91.8	2.6	5.6	95.0
110-111	Y	0.0	94.5	1.7	3.8	95.0
130-131	Y	0.0	94.1	2.1	3.8	95.0
145-146	Y	0.0	95.1	1.9	3.0	95.0
160-161	Y	0.0	94.3	1.9	3.8	95.0
185-186	Y	0.0	91.6	2.8	5.6	95.0
300-301	Y	0.0	37.9	8.7	53.4	97.0

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-55 KL	45°36.9'	147°36.5'	3625m	778cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
10-11	N	0.0	27.9	11.5	60.6	
30-31	N	0.0	35.7	8.1	56.2	
50-51	N	0.0	24.3	9.5	66.2	
70-71	N	0.0	22.0	4.6	73.4	
90-91	N	0.0	12.1	6.7	81.2	
110-111	N	0.0	21.3	5.9	72.8	
130-131	N	0.0	28.3	10.1	61.6	
150-151	N	0.0	19.0	4.4	76.6	
170-171	N	0.0	29.0	7.0	64.0	
190-191	N	0.0	35.8	8.1	56.1	
210-211	N	0.0	17.5	8.3	74.2	
230-231	N	0.0	23.8	7.7	68.5	
270-271	N	0.0	26.0	6.9	67.1	
290-291	N	0.0	1.1	6.6	80.3	
310-311	N	0.0	11.4	4.9	83.7	
330-331	N	0.0	4.6	1.9	93.5	
350-351	N	0.0	21.8	5.6	72.6	
370-371	N	0.0	7.1	3.8	89.1	
390-391	N	0.0	7.6	3.9	88.5	
410-411	N	0.0	20.6	7.6	71.8	
430-431	N	0.0	30.8	8.3	6.9	
450-451	N	0.0	16.2	4.1	79.7	
470-471	N	0.0	15.8	3.5	80.7	
510-511	N	0.0	8.5	1.9	89.6	
530-531	N	0.0	7.9	1.5	90.6	
590-591	N	0.0	5.1	2.0	92.9	
610-611	N	0.0	12.9	5.2	81.9	
630-631	N	0.0	7.8	3.5	88.7	
650-651	N	0.0	17.8	4.2	78.0	
670-671	N	0.0	17.4	4.3	78.3	
699-700	N	0.0	6.5	18.7	74.8	
719-720	N	0.0	9.8	3.2	87.0	
739-740	N	0.0	10.6	1.4	88.0	
759-760	N	0.0	14.6	7.9	77.5	

CORE NUMBER	LATITUDE	LONGITUDE	WATER DEPTH	RECOVERY
SO-36-56 KL	45°31.9'	147°27.8'	3371m	498cms

SAMPLE INTERVAL	SMEAR SLIDE	% GRAVEL	% SAND	% SILT	% MUD	% CaCO ₃
0-1	Y	0.0	55.6	7.1	37.3	94.0
50-51	Y	0.0	53.2	2.2	38.6	87.0
100-101	Y	0.0	30.3	6.9	62.8	87.0
150-151	Y	0.0	15.6	6.7	77.7	94.0
180-181	Y	0.0	48.3	6.7	45.0	87.0
210-211	Y	0.0	31.3	7.8	60.9	59.0
250-251	Y	0.0	36.7	11.9	51.4	47.0
290-291	Y	0.0	38.3	6.8	54.9	0.0
310-311	Y	0.0	40.5	8.5	51.0	3.4
350-351	Y	0.0	35.9	6.1	58.0	0.0
400-401	Y	0.0	59.2	10.6	30.2	0.0
450-451	Y	0.0	53.0	10.5	36.5	0.0
497-498	Y	0.0	64.1	6.7	29.2	0.0

CORE SAMPLES ANALYSED AT AMDEL, ADELAIDE

<u>SAMPLE</u>	<u>INTERVAL</u>	<u>TOC</u>	<u>CO₂</u>	<u>CaCO₃</u>
67GC-011	250-270cms	0.76	12.1	27.52
67GC-013	270-290cms	1.01	17.9	40.71
67GC-018	210-230cms	1.31	29.2	66.41
67GC-022	260-280cms	1.20	27.8	63.22
67GC-023	218-238cms	0.85	24.0	54.58
67GC-025	154-174cms	1.53	29.8	67.77
67GC-026	197-217cms	0.81	26.4	60.04
67GC-028	219-239cms	0.74	23.5	53.44
67GC-030	105-125cms	0.44	12.2	27.75
67GC-031	264-284cms	0.81	32.7	74.31
67GC-034	241-262cms	1.33	27.4	62.31
67GC-041	148-168cms	0.47	10.9	24.79
67GC-045	310-330cms	0.64	11.5	26.15
67GC-047	110-130cms	0.88	31.4	71.41
67GC-054	68-80 cms	0.89	29.9	68.00

<u>CORE NUMBER</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>WATER DEPTH</u>	<u>RECOVERY</u>
67/GC011	38°45.0'	140°07.4'	3214m	308cms
67/GC013	38°27.9'	140°10.0'	2525m	364cms
67/GC018	38°11.6'	140°11.5'	1035m	233cms
67/GC022	38°02.3'	139°58.0'	1003m	319cms
67/GC023	38°03.2'	139°55.9'	1146m	277cms
67/GC025	39°36.5'	141°10.5'	450m	184cms
67/GC026	38°37.9'	141°11.1'	469m	224cms
67/GC028	38°40.1'	141°12.5'	545m	248cms
67/GC030	39°35.0'	142°57.4'	558m	145cms
67/GC031	39°36.0'	142°57.0'	829m	296cms
67/GC034	39°47.7'	142°48.8'	1630m	287cms
67/GC041	40°43.8'	141°42.4'	4645m	190cms
67/GC045	42°13.6'	142°52.5'	3715m	360cms
67/GC047	42°10.6'	144°40.9'	765m	134cms
67/GC054	41°10.9'	143°50.2'	1634m	97cms

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