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SEDIMENT CORE DESCRIPTIONS: R/V KANA KEOKI 1972 CRUISE, EASTERN--ETC(U)
JUN 76 J E ANDREWS, J A FOREMAN N00014-75-C-0209
UNCLASSIFIED HIG-76-13 NL

1 OF 2
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Data Report 32

HIG-76-13

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SEDIMENT CORE DESCRIPTIONS: R/V KANA KEOKI 1972 CRUISE, EASTERN AND WESTERN PACIFIC OCEAN

By

Staff of the Sediment Core Lab
of the
Hawaii Institute of Geophysics
J. E. Andrews, In Charge
J. A. Foreman, Supervisor

JUNE 1976

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Prepared for

OFFICE OF NAVAL RESEARCH
under Contract N00014-75-C-0209
and
INTERNATIONAL DECADE OF OCEAN EXPLORATION
under NSF Grant ID071-04207-A04

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Data Report 32

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Approved by Director

George T. Woollard

Date: 30 June 1976

INTRODUCTION

This report presents megascopic descriptions of deep-sea sediment cores obtained by personnel of the Hawaii Institute of Geophysics on cruises of the R/V Kana Keoki in the eastern and western Pacific Ocean during the year 1972. The ship tracks and the location of stations taken for coring operations by the R/V Kana Keoki during 1972 are shown in Figures 1 to 4.

Table I provides a chronological listing of the cores and indicates corrected satellite-navigation-determined coordinates for each coring operation, as well as water depth (m), length of core(m), and geological age of the oldest sediments for each core (if dating was possible). The core length (Table 1) represent ship-board measurements and may, in some cases, not agree with the actual lengths determined later in the laboratory. The ages provided are based on planktonic microfossils, generally foraminfera or radiolarians. Designations used for ages are as follows: Quaternary (Q), Pliocene (TP), Miocene (TM), Oligocene (TO). Questionable age determinations are followed by a question mark (?). In some cases the age is followed by the alpha character "N" and a number [e.g., Pliocene (N19)], which corresponds to the foraminiferal zones of Blow (1969).

Following these tables are found descriptions of the structural and lithologic sequences encountered in each core, as well as their sedimentary units, as determined by microscope examination of smear slides. The nomenclature used follows that established for deep-sea sediments by JOIDES for the Deep Sea Drilling Project. Cores are numbered according to ship (cruise) name, year, sample types, and sample number. For example KK 72-PC 21 indicates R/V Kana Keoki cruise 1972, Piston Core #21. The station number also appears in each heading to further identify each core. Other sample types include freefall core (FFC) and triggercores (TC). PCOD refers to a piston core obtained with a core orienting device.

The standard procedure of preliminary sediment core analysis used at the Hawaii Institute of Geophysics is described by Andrews et al. (1970). Following cold storage at 2° - 4°C, cores are split into "working" and "archive" halves. The working half is sampled for: porosity (50-cm intervals); micropaleontological analysis (top and bottom and/or at noted lithologic contacts); paleomagnetic analysis (10-cm intervals); and other samples as requested by individual researchers. Shear strength measurements are also made at 20-cm intervals using a model G-200 Genora Fall Cone Penetrometer.

The archive half is sampled every 50-cm and/or at noted lithologic contacts for smear slides which are used in the subsequent microscopic description of the various sediment components. A visual description of each core is also made from the archive half, including diagrams of sedimentary structures and boundaries throughout each core, color variations (according to Munsell color code), and textural variations.

The working half is stored in an air-tight plastic sleeve; the archive half in a plastic sleeve and protective plastic "D" tube. The archive half is maintained in cold storage at 2° - 4°C while the working half is kept in dry storage at room temperature.

These initial descriptions, in addition to those presented by Andrews, et al. (1970, 1973, 1975) for the Solomon Islands 1968-1969, Murray Fracture Zone and Western Pacific 1970, and Eastern and Western Pacific 1971, will serve as a guide to samples available through the Sediment Core Analysis Lab of the Hawaii Institute of Geophysics. Requests for samples should be directed to:

Chris Mato
Hawaii Institute of Geophysics
University of Hawaii
2525 Correa Road
Honolulu, Hawaii 96822

The work reported herein was accomplished under the direction of J. E. Andrews, with J. A. Foreman as supervisor. Data were logged by graduate and undergraduate students in the core lab.

REFERENCES

Andrews, J. E., et al. (1970) Sediment Core Descriptions: Solomon Islands 1968-69, and Murray Fracture Zone, 1967, HIG-70-25. Data Report No. 16, Hawaii Institute of Geophysics.

Andrews, J. E., et al. (1973) Sediment Core Descriptions: R/V Mahi 1970 Cruise, Western Pacific. HIG-73-7, Data Report No. 24, Hawaii Institute of Geophysics.

Andrews, J. E., et al. (1975) Sediment Core Descriptions: R/V Kana Keoki 1971 Cruise, Eastern and Western Pacific Ocean. HIG-75-15, Data Report No. 28, Hawaii Institute of Geophysics.

Blow, W. H. (1969) "Late Middle Eocene to Recent Planktonic Biostratigraphy". Proceedings of the First International Conference on Planktonic Microfossils, Vol. 1. E. J. Brill, Leiden, Netherlands.

Gilliard, T., Hammond, S. R., and Seyb, St. (1976), A new device for measuring the behavior of a piston corer. Subm. to Deep-Sea Res.

CORE LAB STAFF

In Charge: J. E. Andrews

Technical Supervisor: Jerome A. Foreman

Graduate Assistants: Gareth Au
Bruce Barraclough
Walter Busch
Charles Landmesser

Undergraduate Assistants: Norman Patterson
Galen Peterson
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Dan Chung

ACKNOWLEDGMENTS

This project was supported by Office of Naval Research Contract N00014-75-C-0209 and National Science Foundation under IDOE Grant ID071-04207-A04. Additional support was provided by the Hawaii Institute of Geophysics.

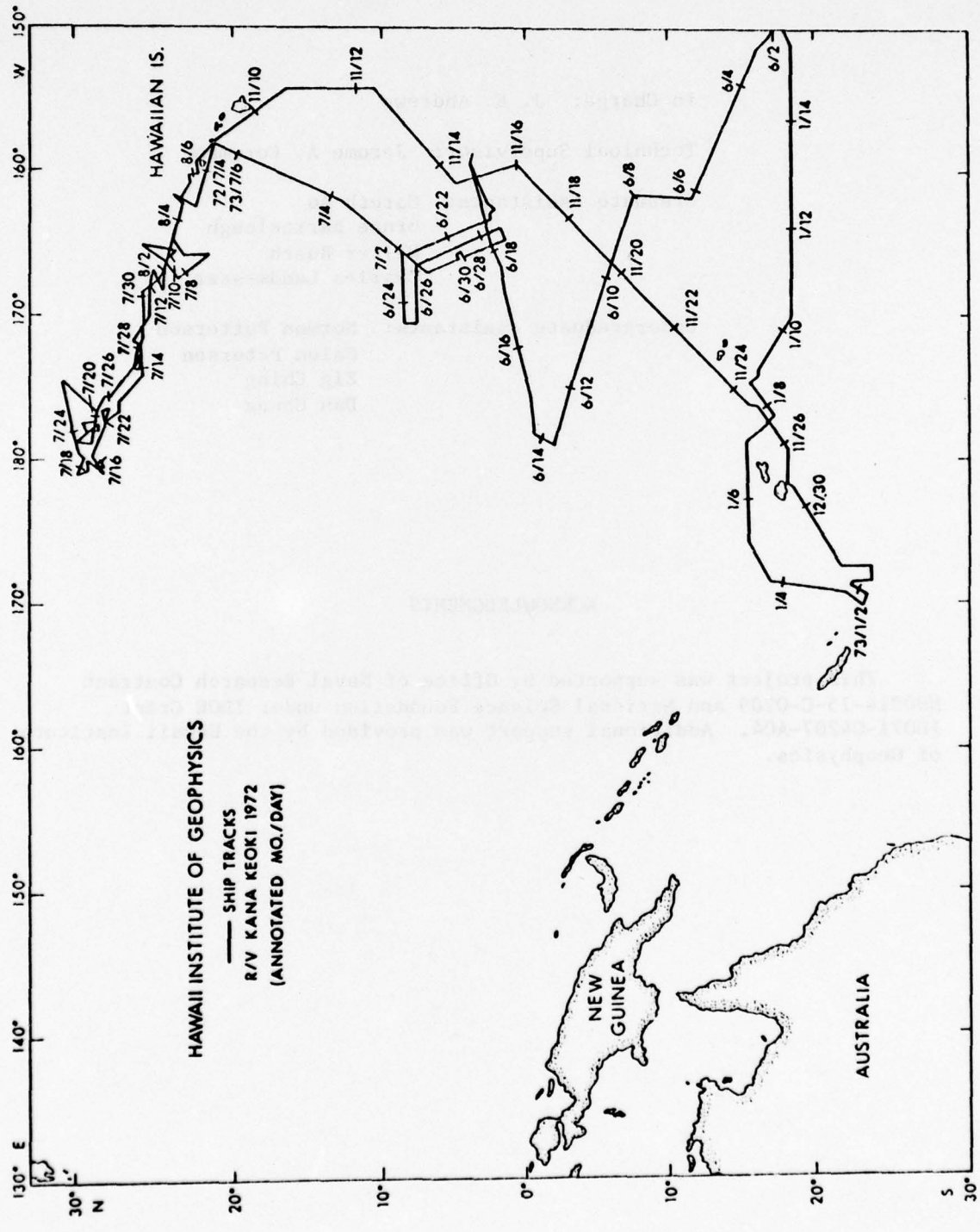


Fig. 1. R/V KANA KEOKI ship tracks, western Pacific Ocean.

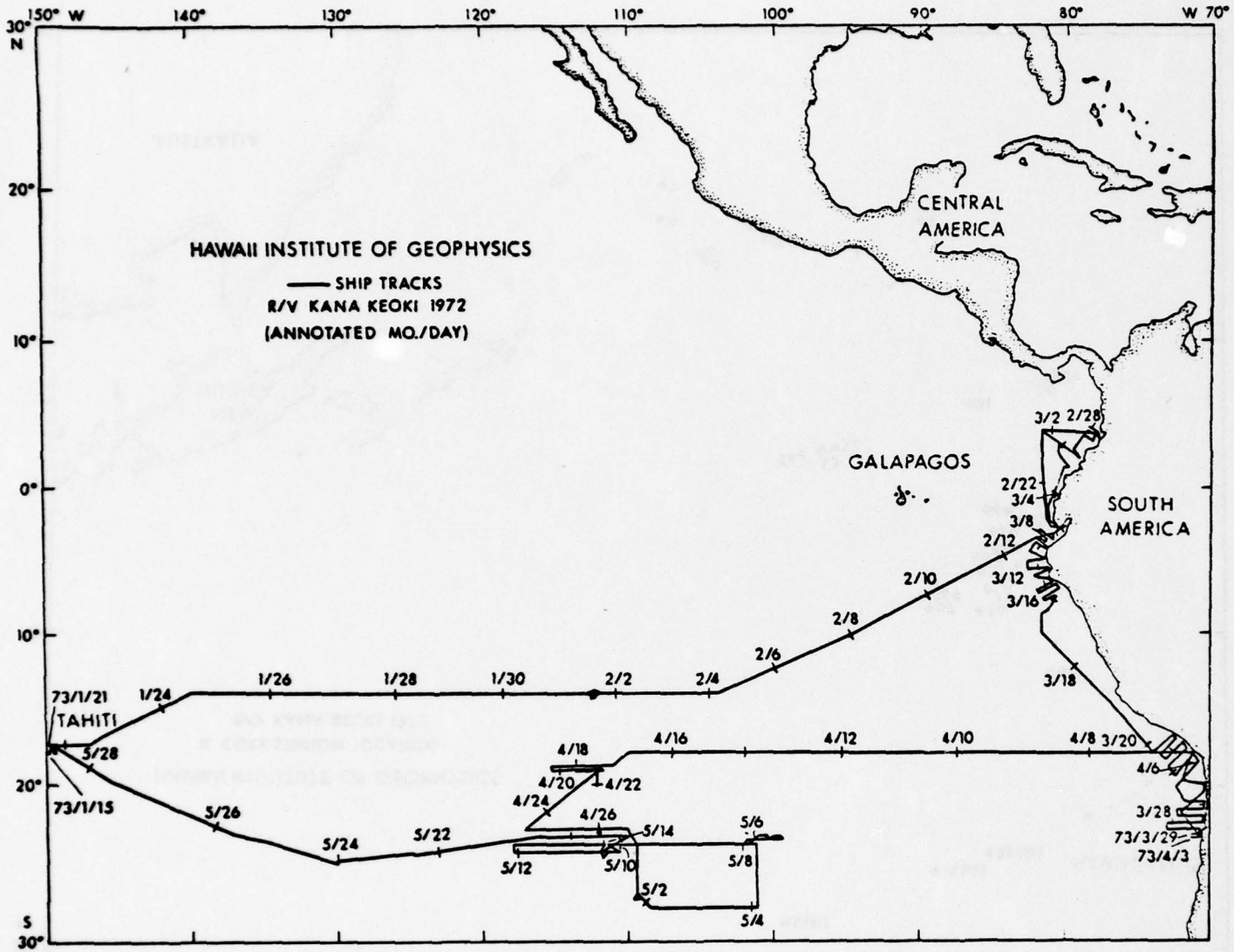


Fig. 2. R/V KANA KEOKI 1972 ship tracks, eastern Pacific Ocean.

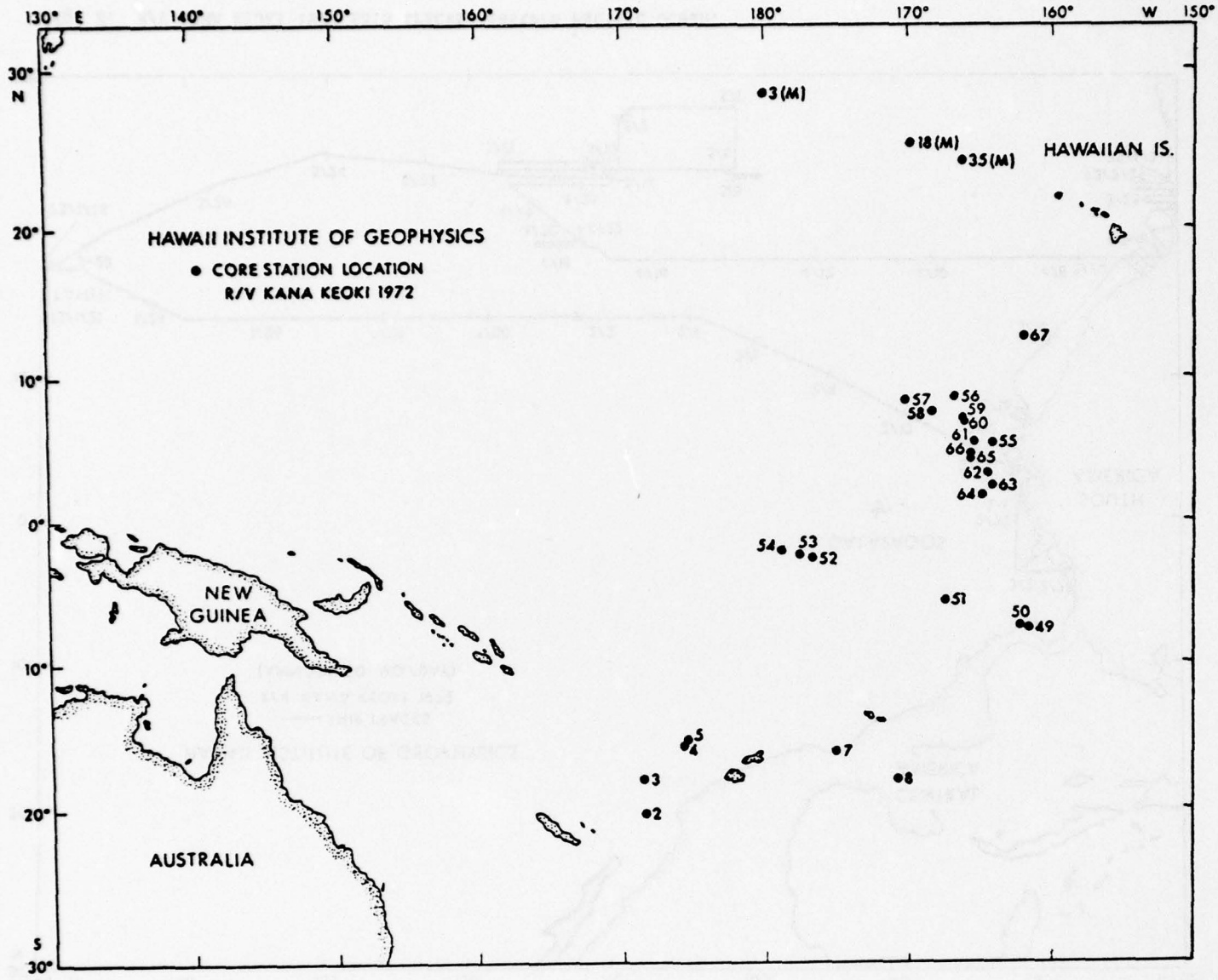


Fig. 3. Core station locations, western Pacific Ocean. (M) indicates Midway core.

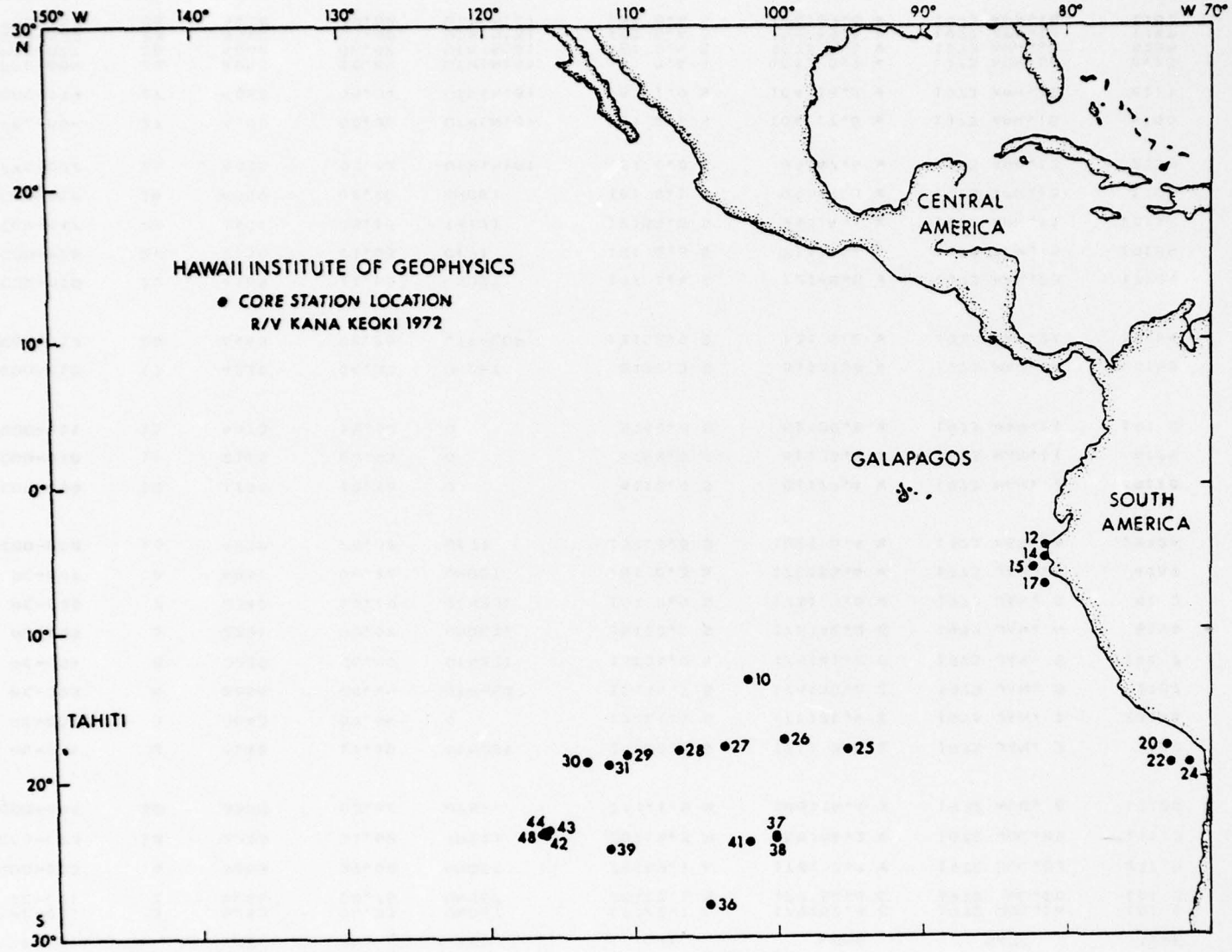


Fig. 4. Core station locations, eastern Pacific Ocean.

Table 1. Chronological Listing of Cores Obtained During R/V KANA KEOKI 1972 Cruise

CORE TYPE #	STA #	DEPTH (M)	LENGTH (M)	AGE	LOCATION LAT	LONG	DATE	TIME	PAGE
PC-001	3	5255	06.73	UNDET	28:28.1 N	179:52.8 E	1972 JUL.16	16: 5	A-1
TC-001	3	5255	00.75	UNDET	28:28.1 N	179:52.8 E	1972 JUL.16	16: 5	A-3
PCOD-002	4	5263	07.00	UNDET	29:59.1 N	178: 2.2 W	1972 JUL.23	23:19	A-4
PCOD-003	18	3233	01.62	TP(?)	25:15.3 N	169:54.3 W	1972 JUL.29	11:15	A-5
PCOD-004	35	3605	03.44	UTM	24:11.5 N	166:16.6 W	1972 AUG. 2	13:20	A-6
PC-001	2	3240	11.45	Q(N22)	20:22.5 S	171: 5.5 E	1973 JAN. 3	7:20	A-7
PC-002	3	3043	07.64	Q	17:54.6 S	171:21.4 E	1973 JAN. 3	23:45	A-11
PC-003	4	2656	00.46	UTP-LQP	15:34.7 S	174:10.2 E	1973 JAN. 5	2:37	A-13
PC-004	5	3229	06.80	Q(N23)	15:31.0 S	175:41.2 E	1973 JAN. 5	14: 7	A-14
PC-005	6	2291	00.07	UNDET.	15:30.9 S	178:42.8 E	1973 JAN. 6	8:34	
PC-006	7	2342	12.19	Q(N23)	16: 8.9 S	175: 9.6 W	1973 JAN. 8	9: 2	A-16
PC-007	8	4831	09.76	UNDET	18: 0.3 S	170:55.4 W	1973 JAN.10	4:39	A-20
PCOD-008	10	4558	24.38	Q(?)	13:19.0 S	102: 6.4 W	1973 FEB. 4	22:28	A-21
PCOD-009	12	1705	10.18	Q	4:10.9 S	81:28.4 W	1973 MAR. 9	19:10	A-22
PCOD-010	14	2165	03.95	Q	4:58.9 S	81:35.4 W	1973 MAR.11	4:25	A-23
PCOD-011	15	4373	15.23	Q	5:42.0 S	82:20.9 W	1973 MAR.11	19: 8	A-24
PCOD-012	17	4830	00.37	UNDET	6:52.3 S	81:31.8 W	1973 MAR.14	0:52	A-26
PCOD-013	20	6443	06.78	UTP-LQP	17:52.9 S	73: 4.2 W	1973 MAR.21	19:54	A-27
PCOD-015	22	4158	11.68	UNDET	19: 1.4 S	72:48.5 W	1973 MAR.23	17:29	A-28
PCOD-016	24	3736	01.03	Q(?)	19: 2.8 S	71:33.4 W	1973 APR. 5	19:59	A-29
PCOD-017	25	4401	09.15	TM(?)	17:59.5 S	95:14.1 W	1973 APR.11	20:12	A-30
PCOD-018	26	4089	08.70	UNDET	18: 0.1 S	99:47.3 W	1973 APR.13	1:55	A-31
FFC-002	26	4035	00.62	UTM(N18)	18: 0.0 S	99:47.6 W	1973 APR.13	2:32	A-32
FFC-004	27	4108	00.86	UTM(N18)	18: 2.1 S	104:17.6 W	1973 APR.15	4:50	A-33
PCOD-019	27	4052	04.34	UTM(N18)	18: 1.9 S	104:18.3 W	1973 APR.15	6:11	A-34
FFC-006	28	4063	00.69	UTM(N18)	18: 0.4 S	107: 0.9 W	1973 APR.16	0:15	A-35
FFC-007	28	4088	00.82	UTM(N18)	18: 0.4 S	107: 0.0 W	1973 APR.16	0:24	A-36
PCOD-020	28	4072	01.60	UTM(N18)	18: 0.4 S	106:59.6 W	1973 APR.16	1:47	A-37
FFC-008	28	4078	00.62	UTM(N18)	18: 0.4 S	106:59.6 W	1973 APR.16	1:51	A-38
PCOD-021	29	3525	05.54	TP(N19)	18:22.9 S	110:25.9 W	1973 APR.17	2:26	A-39

Table 1. (continued)

CORE TYPE #	STA #	DEPTH (M)	LENGTH (M)	AGE	LOCATION LAT	LONG	DATE	TIME	PAGE
FFC-010	30	3114	00.97	Q	18:50.4 S	113:16.3 W	1973 APR.17	20: 1	A-40
FFC-013	30	3034	01.20	Q	18:50.5 S	113:31.4 W	1973 APR.17	21:23	A-41
FFC-015	30	3104	01.00	Q	18:50.5 S	113:38.4 W	1973 APR.17	22: 5	A-42
FFC-018	30	3117	00.55	Q	18:50.4 S	113:44.5 W	1973 APR.17	22:36	A-43
PCOD-022	30	3127	03.19	Q	18:50.1 S	113:43.6 W	1973 APR.17	23:42	A-44
PCOD-023	31	3429	07.36	Q	19: 0.1 S	111:45.3 W	1973 APR.19	3:20	A-45
FFC-019	36	3446	01.00	QP(N22)	28: 0.2 S	104:43.8 W	1973 MAY 3	0:55	A-46
FFC-020	36	3456	01.02	QP(N22)	28: 0.3 S	104:43.9 W	1973 MAY 3	1:19	A-47
PCOD-024	36	3455	02.97	Q	28: 0.5 S	104:45.3 W	1973 MAY 3	3:12	A-48
PCOD-025	37	4089	00.42	UTM(N18)	23:40.4 S	100: 8.8 W	1973 MAY 6	21:41	A-49
FFC-021	38	4097	00.86	TP-Q(?)	23:40.4 S	100: 9.1 W	1973 MAY 7	5:10	A-50
FFC-022	38	4161	00.90	UNDET	23:40.4 S	100: 8.9 W	1973 MAY 7	5:12	A-51
FFC-023	38	4224	00.90	TP-Q(?)	23:40.4 S	100: 8.7 W	1973 MAY 7	5:16	A-52
FFC-024	38	4224	00.76	UNDET	23:40.4 S	100: 8.4 W	1973 MAY 7	5:19	A-53
FFC-025	38	4226	00.97	UNDET	23:40.4 S	100: 8.2 W	1973 MAY 7	5:23	A-54
FFC-027	38	4200	00.94	UNDET	23:40.4 S	100: 7.5 W	1973 MAY 7	5:32	A-55
PCOD-026	38	4225	03.08	Q	23:40.4 S	100: 8.1 W	1973 MAY 7	7:20	A-56
FFC-028	39	2598	00.35	Q	24:29.5 S	111:43.1 W	1973 MAY 15	4:43	A-57
FFC-033	39	3211	00.47	QP	24:29.5 S	111:33.8 W	1973 MAY 15	6: 7	A-58
FFC-036	39	2759	00.86	QH(N23)	24:29.4 S	111:28.3 W	1973 MAY 15	6:59	A-59
FFC-037	39	2788	00.18	QP(N22)	24:29.4 S	111:27.8 W	1973 MAY 15	7: 4	A-60
FFC-040	41	2990	00.34	QP(N22)	24:29.1 S	111:50.6 W	1973 MAY 16	5:33	A-61
FFC-041	41	2951	00.15	QH(N23)	24:28.9 S	111:52.7 W	1973 MAY 16	5:45	A-62
FFC-043	41	2876	00.43	QH(N23)	24:28.3 S	111:57.1 W	1973 MAY 16	6:10	A-63
PCOD-028	42	3059	01.42	Q	23:38.8 S	116:13.1 W	1973 MAY 18	20:24	A-64
PCOD-029	43	3286	00.14	UNDET.	23:30.6 S	115:59.0 W	1973 MAY 19	0:53	A-65
FFC-051	44	2982	01.03	Q	23:31.2 S	115:47.8 W	1973 MAY 19	3:25	A-66
PCOD-030	44	3163	00.29	Q	23:32.0 S	115:26.5 W	1973 MAY 19	7: 6	A-67

Table 1. (continued)

CORE TYPE #	STA #	DEPTH (M)	LENGTH (M)	AGE	LOCATION LAT	LOCATION LONG	DATE	TIME	PAGE
PCOD-031	45	2909	00.18	Q	23:33.6 S	115:41.0 W	1973 MAY 19	16:19	A-68
FFC-058	48	3234	00.98	Q	23:31.1 S	115:58.7 W	1973 MAY 20	2:19	A-69
PCOD-032	49	4569	05.51	TP(N19)	7:38.6 S	161:35.1 W	1973 JUN. 7	22:38	A-70
PCOD-033	50	4613	05.06	LTM	7:27.0 S	162:12.2 W	1973 JUN. 8	7:15	A-73
PCOD-034	51	5134	04.54	Q(?)	5:37.3 S	167:28.5 W	1973 JUN.10	4:44	A-75
PCOD-035	52	5554	09.04	LTP	2:37.6 S	176:52.4 W	1973 JUN.12	12:58	A-76
PCOD-036	53	5631	09.76	LTM	2:24.6 S	177:44.2 W	1973 JUN.13	0:42	A-77
PCOD-037	54	5342	12.25	LTM	2: 9.1 S	178:58.1 W	1973 JUN.13	14:35	A-79
PCOD-038	55	4668	12.09	UTM-LTP	5:23.5 N	164:24.5 W	1973 JUN.22	1:19	A-80
PCOD-039	56	5194	13.28	LTO	8:30.8 N	166:51.0 W	1973 JUN.23	9:23	A-83
PCOD-040	57	5516	11.94	LTM	8:27.9 N	170: 7.5 W	1973 JUN.24	6:43	A-85
PCOD-041	58	4996	06.00	Q(?)	7:37.3 N	168:22.3 W	1973 JUN.25	10:32	A-89
PCOD-042	59	5008	10.71	UTO	7:10.3 N	166:13.4 W	1973 JUN.26	6:55	A-91
PCOD-043	60	5039	11.60	TM	7:10.4 N	166:12.8 W	1973 JUN.26	10: 8	A-92
PCOD-044	61	4703	07.57	LTM	5:27.5 N	165:29.0 W	1973 JUN.27	1:22	A-94
PCOD-045	62	5342	12.69	TP	3:16.1 N	164:33.3 W	1973 JUN.27	20:27	A-95
PCOD-046	63	5258	12.75	TM	2:26.9 N	164:12.9 W	1973 JUN.28	7:15	A-98
PCOD-047	64	5348	14.28	Q	1:45.2 N	164:54.7 W	1973 JUN.29	0:57	A-99
PCOD-048	65	5509	11.99	UTM	4:13.7 N	165:49.8 W	1973 JUN.29	19:51	A-106
PCOD-049	65	5247	17.96	TM	4:22.7 N	165:53.0 W	1973 JUN.30	0:31	A-109
PCOD-050	66	4880	05.28	UTO-LTM	4:42.2 N	165:37.4 W	1973 JUN.30	13: 3	A-111
PCOD-051	67	5421	08.62	Q	12:44.4 N	161:59.4 W	1973 JUL. 3	16:35	A-112

APPENDIX

Core Descriptions

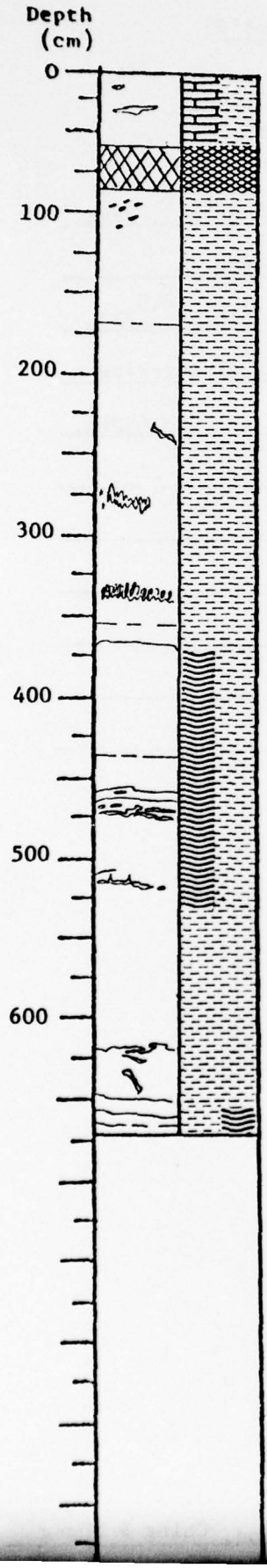
A-1

GENERAL SUMMARY FORM

Midway

Core No. KK72 PC 01 Sta. 3

Location Lat. 28°28.05'N
Long. 179°52.82'W



GENERAL MEGASCOPIC DESCRIPTION

0-69cm: Brown (10 $yr^{4}/3$) rad bearing nanno clay; 47-57% clay, 39-47% nanno, 3-5% rad, 1-4% aniso min. 69-81cm: Missing. 81-231cm: Dark brown (10 $yr^{3}/3$) to very dark grayish brown (10 $yr^{3}/2$) rad rich clay; 65-72% clay, 27-30% rad, 1-4% aniso min (nanno trace). 231-365cm: Dark brown (7.5 $yr^{3}/2$) to (7.5 $yr^{3.5}/2$) rad bearing clay; 90-95% clay, 4-10% rad; 1-5% aniso min (nanno trace). 365-531cm: Dark brown (7.5 $yr^{3}/2$) to very dark gray (5 $yr^{3.5}/1.5$) to dark reddish brown (5 $yr^{2.5}/2$) radiolarian clay; 55-73% clay, 25-44% rad, 1-2% aniso min. 531-648cm: Dark reddish brown (5 $yr^{2.5}/2$) to brown (10 $yr^{4.5}/3$) rad bearing clay; 84-95% clay, 5-10% rad, 1-5% aniso min.

Nanno-clay
Clay
Radiolarian clay
Clay-rad ooze
Parallel layering
Mottling

648-673cm: Dark brown (10 $yr^{3}/3$) to dark reddish brown (5 $yr^{2.5}/2$) to brown (10 $yr^{4.5}/3$) clay radiolarian ooze; 50-62% rad, 33-49% clay, 2-5% aniso min. Slight to moderate mottling scattered through the core. Light yellowish brown

(cont'd)

Logged by: Patterson, Ching & Chung

A-2

GENERAL SUMMARY FORM

Midway

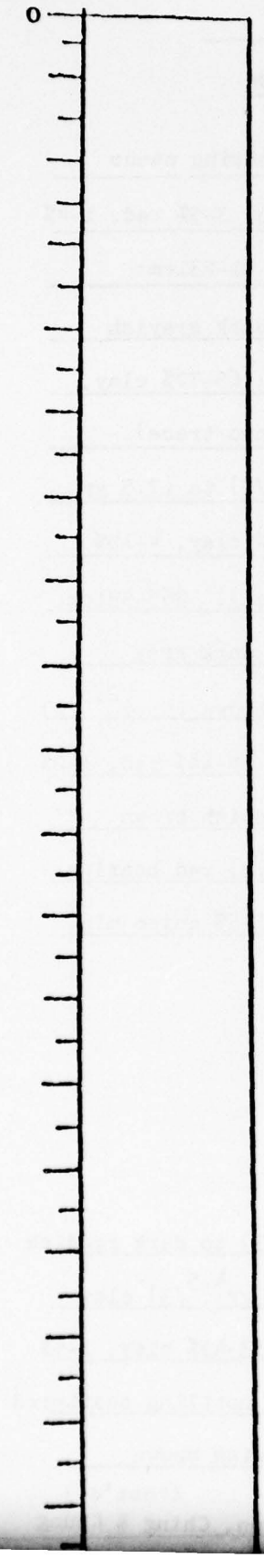
Core No. KK72 PC 01 Sta. 3 (cont'd)

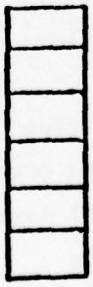
Location

GENERAL MEGASCOPIC DESCRIPTION

(10 yr^{6}/4), yellowish brown (10 yr^{5}/4), dark grayish brown (10 yr^{4}/2), dark brown (7.5 yr^{4}/4) (7.5 yr^{3}/2), black (10 $yr^{2.5}$/1), reddish brown (5 yr^{5}/3). Parallel layering at 453-455cm, brown (10 yr^{4}/3) and 648-652cm, dark brown (10 yr^{3}/3).

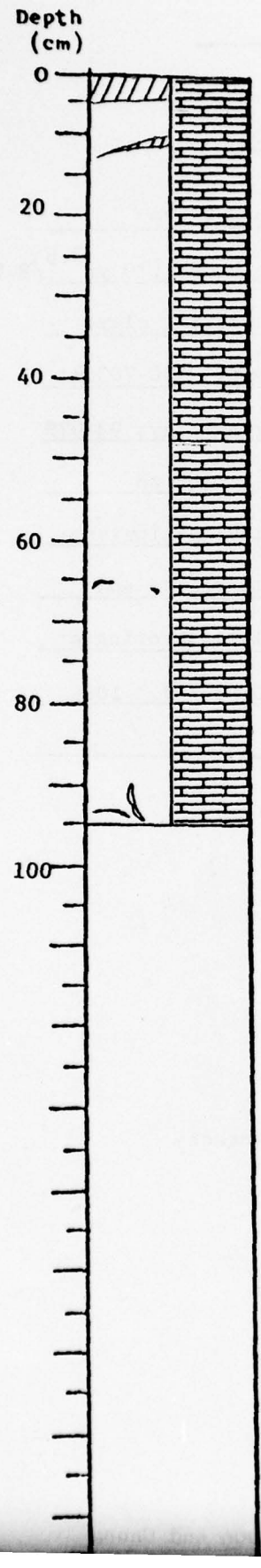
AGE: Undetermined





Logged by: Patterson, Ching & Chung

GENERAL SUMMARY FORM



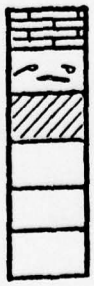
Core No. Midway KK72 TC 1 Sta. 3

Location Lat. 28°28.05'N Long. 179°52.82'W

GENERAL MEGASCOPIC DESCRIPTION

0-95cm: Dark brown (10 yr 4/3) diatom, foram, and rad bearing clay-rich nanno ooze; 55% nanno, 20% clay, 7% rad, 5% foram, 2% diatom, 10% aniso min (sponge trace). Very slight mottles where indicated; light yellowish brown (10 yr 6/4). 0-5cm, 12-13cm: Void.

AGE: Undetermined



Nanno ooze

Mottling

Void area

Logged by: Patterson

GENERAL SUMMARY FORM

Midway

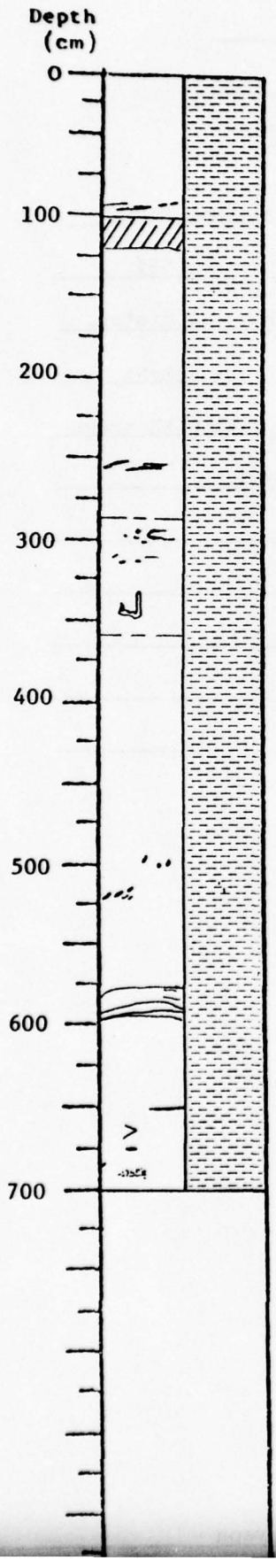
Core No. KK72 PCOD 02 Sta. 4

Location Lat. 29°59.08'N
Long. 178°02.16'W

GENERAL MEGASCOPIC DESCRIPTION

0-550cm: Brown (10 $yr^{4}/3$) to dark brown (10 $yr^{3}/3$) to very dark grayish brown (10 $yr^{3.5}/2.5$) to (7.5 $yr^{3.5}/2$) nanno and rad bearing clay; 90-97% clay, 3-8% rad, 1-3% nanno. 550-700cm: Dark brown (7.5 $yr^{3}/2$) rad bearing clay; 93-97% clay, 3-7% rad (nanno trace). Slight to moderate mottling where indicated; yellowish brown (10 $yr^{5}/4$), dark brown (10 $yr^{4}/4$) and strong brown (10 $yr^{5}/6$). Parallel layering at 580-591cm depth; dark brown (10 $yr^{3}/3$). 100-121cm: Void.

AGE: Undetermined



Clay
Mottling
Parallel layering
Sharp and gradational contacts
Void area

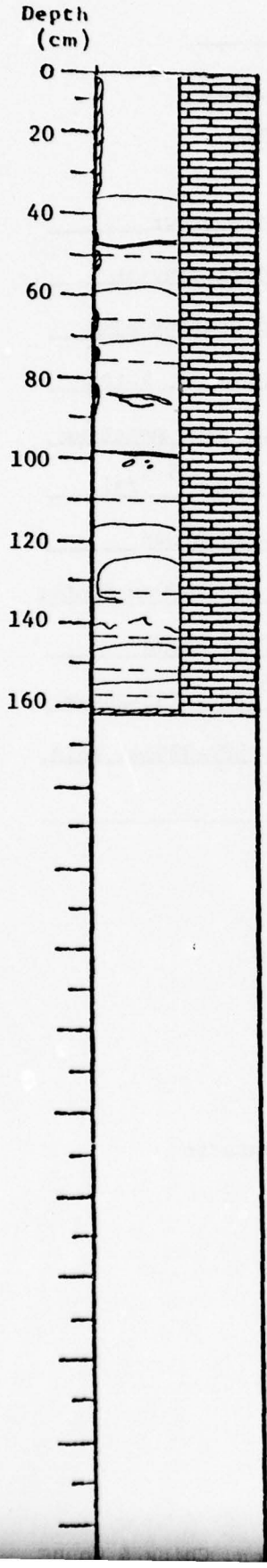
Logged by: Patterson and Chung

GENERAL SUMMARY FORM

Midway

Core No. KK72 PCOD 03 Sta. 18

Location Lat. 25°15.33'N Long. 169°54.30'W



GENERAL MEGASCOPIC DESCRIPTION

0-162cm: White (10 yr 8/2) to light gray (10 yr 7/2) to very pale brown (10 yr 7/3) clay bearing foram rich nanno ooze; 65-80% nanno, 10-15% foram, 2-8% clay. Very faint mottling scattered through the core; white (10 yr 8/2), pale brown (10 yr 7/3), light gray (10 yr 7/2), (10 yr 8/3), (10 yr 8/1). Parallel layering at 47-48cm; white (10 yr 8/2) and 98-98.5cm; very pale brown (10 yr 8/3). 0-36cm exhibits graded bedding with black, white and brown sand grains mixed in a lighter matrix. 115-134cm: Black, white and brown sand grains in a light matrix. 161-162cm: Void.

AGE: Pliocene(?)

Nanno ooze
Mottling
Parallel layering
Sharp and gradational contacts
Void area

Logged by: Patterson & Au

GENERAL SUMMARY FORM

Midway

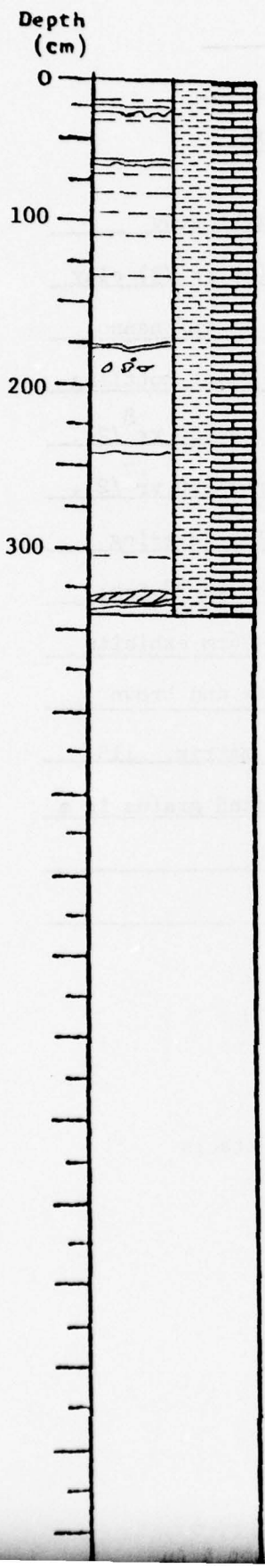
Core No. KK72 PCOD 04 Sta. 35

Location Lat. 24°11.48'N Long. 166°16.57'W

GENERAL MEGASCOPIC DESCRIPTION

0-344cm: Brown (10 yr $^{5}/_{3}$) to pale brown (10 yr $^{6}/_{3}$) to (10 yr $^{5.5}/_{3}$) to dark grayish brown (10 yr $^{4}/_{2}$) sponge and rad bearing clay nanno ooze; 45-62% nanno, 25-40% clay, 4-10% rad, 2-4% sponge. Slight to moderate mottling where indicated in core; brown (10 yr $^{5.5}/_{3}$), pale brown (10 yr $^{6}/_{3}$) dark grayish brown (10 yr $^{4}/_{2}$). Parallel layering at 24-29cm depth; brown (10 yr $^{5.5}/_{3}$). 62-64cm: Pale brown (10 yr $^{6}/_{3}$). 175-176cm: (10 yr $^{6}/_{3}$). 236-242cm: Dark grayish brown (10 yr $^{4}/_{2}$). 329-333cm: Void.

AGE: Upper Miocene



Clay-nanno ooze

Mottling

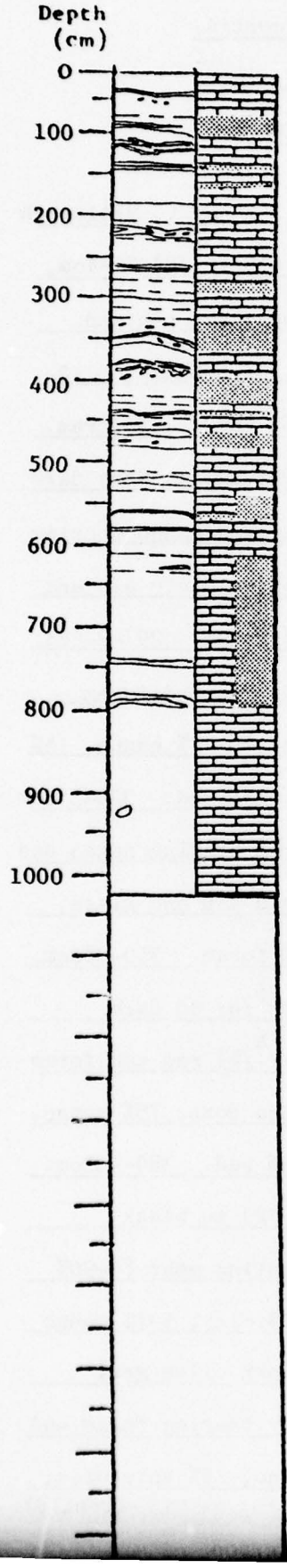
Parallel layering

Sharp and gradational contacts

Void area

Logged by: Patterson, Ching & Chung

GENERAL SUMMARY FORM



Core No. KK72 PC 01 Sta. 2
Location Lat. 20°22.46'S
Long. 171°05.55'E

GENERAL MEGASCOPIC DESCRIPTION

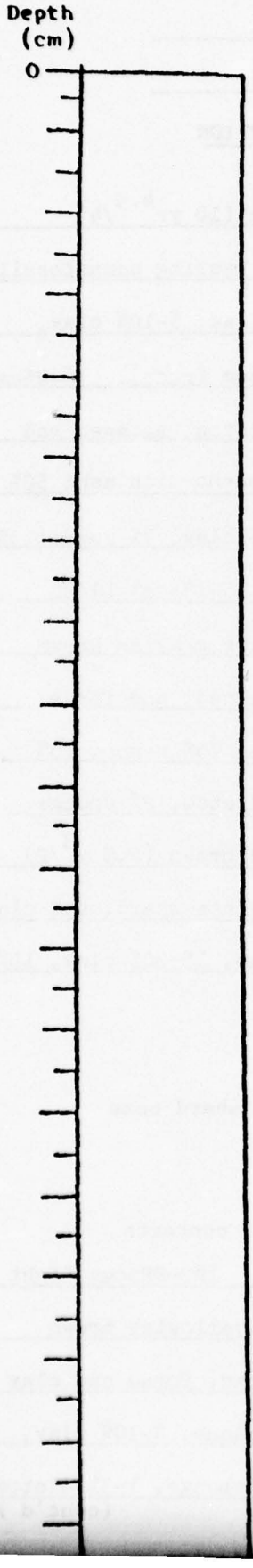
0-76cm: Dark yellowish brown (10 $yr^{4.5}/4$) sponge, rad, clay and foram bearing nannofossil ooze; 70-80% nanno, 5-10% foram, 5-10% clay, 3-10% rad, 0-5% sponge (diatom trace). 76-95cm: Very dark gray (10 $yr^{3}/1$) diatom, sponge, rad and foram bearing clay and nanno rich ash; 50% volcanic ash, 23% nanno, 10% clay, 7% foram, 5% rad, 3% sponge, 2% diatom. 95-134cm: Light olive brown (2.5 $y^{5}/3$) to dark grayish brown (10 $yr^{4}/2.5$) sponge, diatom, rad, and foram bearing clay rich nanno ooze; 75% nanno, 10% clay, 5% foram, 5% rad, 3% diatom, 2% sponge. 134-180cm: Very dark grayish brown (2.5 $y^{3}/2$) rad and foram bearing ash, glass shard, and clay rich nanno ooze; 55-60% nanno, 15-20% clay, 15% volcanics, 5% foram, 5% rad. 180-225cm: Light brownish gray (2.5 $y^{6}/3$) to yellowish brown (10 $yr^{5}/4$) diatom, sponge, rad, foram and clay bearing nanno ooze; 65-82% nanno, 5-10% clay, 3-10% foram, 5-8% rad, 2-4% sponge, 1-3% diatom.

Nanno ooze
Ash
Nanno, ash and glass shard ooze
Mottling
Parallel layering
Sharp and gradational contacts

(cont'd)

Described by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 01 Sta. 2 (cont'd)

Location _____

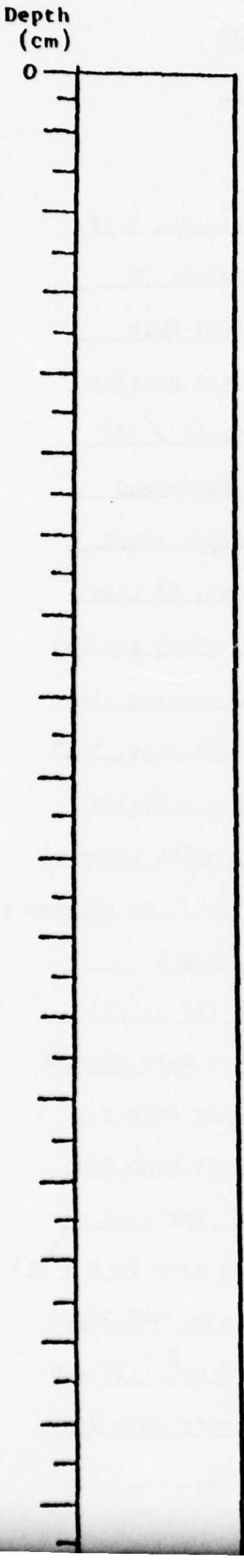
GENERAL MEGASCOPIC DESCRIPTION

225-283cm: Dark olive gray (5 $y^{3}/2$) to yellowish brown (10 $yr^{5.5}/4$) to brown (10 $yr^{4}/3$) diatom, sponge, foram and rad bearing clay, ash and glass shard rich nanno ooze; 58-65% nanno, 10-15% clay, 10% volcanics, 6-8% rad, 2-5% foram, 2-3% diatom, 2-4% sponge. 283-297cm: Very dark gray (10 $yr^{3}/1.5$) foram, clay and nanno bearing ash and glass shard ooze; 85% volcanic ash and glass, 7% nanno, 5% clay, 3% foram. 297-320cm: Brown (10 $yr^{5}/3$) glass shard, rad and foram bearing clay rich nanno ooze; 70-77% nanno, 15% clay, 3-5% foram, 5% glass, 2-5% rad. 320-350cm: Dark olive gray (5 $y^{3}/2$) foram bearing nanno and clay rich ash; 60-65% volcanic ash and glass, 20% clay, 13-15% nanno, 2-5% foram. 350-380cm: Yellowish brown (10 $yr^{5}/4$) to dark yellowish brown (10 $yr^{4}/4$) rad and foram bearing clay rich nanno ooze; 75% nanno, 15% clay, 5% foram, 5% rad. 380-432cm: Dark olive gray (5 $y^{3}/2$) to black (10 $yr^{2}/1$) nanno and clay bearing ash; 80-90% volcanic ash and glass, 5-10% clay, 5-7% nanno (foram trace). 432-437cm: Dark olive gray (5 $y^{3}/2$) diatom, rad and clay bearing foram and ash rich nanno ooze; 65% nanno, 15% volcanics,

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 01 Sta. 2 (cont'd)

Location

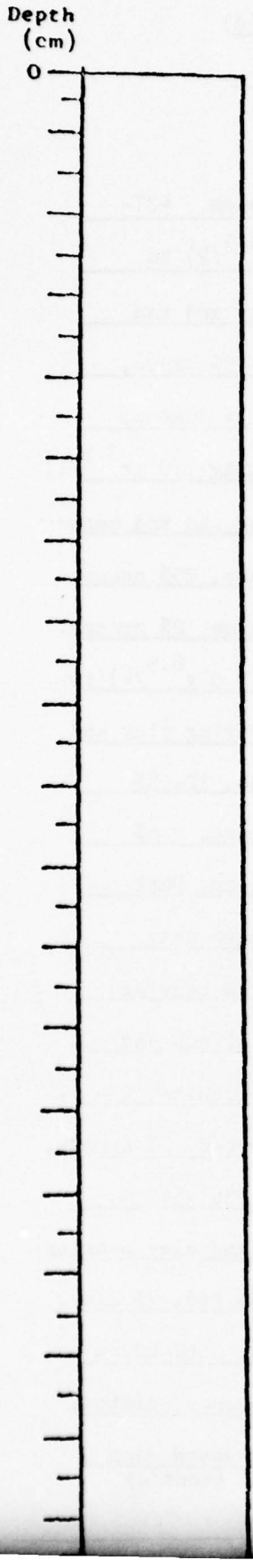
GENERAL MEGASCOPIC DESCRIPTION

10% foram, 5% clay, 3% rad, 2% diatom. 437-457cm: Light brownish gray (2.5 $y^{6.5}/2$) to olive (5 $y^{5}/3$) sponge, diatom, clay and rad bearing foram rich nanno ooze; 70-73% nanno, 10-15% foram, 5-10% rad, 5% clay, 3% diatom, 2% sponge. 457-471cm: Very dark gray (10 $yr^{3.5}/1$) sponge, diatom, foram, clay bearing rad and nanno rich ash; 50% volcanic ash and glass, 25% nanno, 10% rad, 7% clay, 3% foram, 3% diatom, 2% sponge. 471-532cm: Light yellowish brown (2.5 $y^{6.5}/4$) to brown (10 $yr^{5}/4$) sponge and rad bearing clay and foram rich nanno ooze; 60-65% nanno, 12-15% foram, 10-15% clay, 3% rad, 2% sponge, 0-5% opaque min (diatom trace). 532-561cm: Dark grayish brown (10 $yr^{4}/2$) to very dark gray (10 $yr^{3.5}/1$) sponge and foram bearing rad and clay rich nannofossil ash and glass shard ooze; 33-50% volcanics, 25-30% nanno, 15-20% clay, 10% rad, 2% sponge, 2-5% foram (diatom trace). 561-567cm: Brown (10 $yr^{4.5}/3$) diatom, sponge and clay bearing rad rich nanno ooze; 77% nanno, 10% rad, 7% clay, 3% sponge, 2% diatom (foram trace). 567-602cm: Brown (10 $yr^{4}/2.5$) to (10 $yr^{5}/3$) sponge, diatom, rad and clay bearing ash and glass shard rich

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 01 Sta. 2 (cont'd)

Location _____

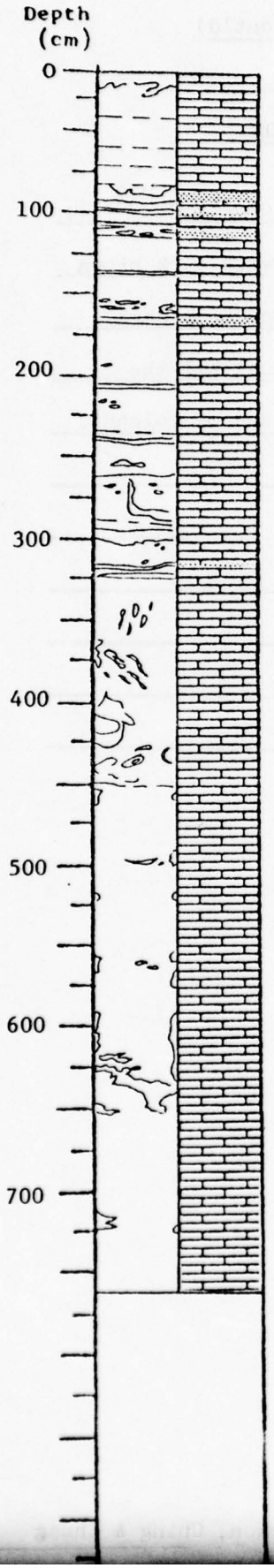
GENERAL MEGASCOPIC DESCRIPTION

nanno ooze; 60-65% nanno, 20% volcanics, 5-7% clay, 5-6% rad, 2% sponge, 1-2% diatom, 5% opaque min (foram trace). 602-768cm: Dark grayish brown (2.5 $y^{4}/2$) to very dark grayish brown (2.5 $y^{3}/2$) to dark olive gray (5 $y^{3}/2$) to very dark gray (10 $yr^{3}/1$) rad, foram and clay bearing nannofossil ash and glass shard ooze; 50-65% volcanics, 25-37% nanno, 5% clay, 2-7% foram, 0-3% rad. 768-1020cm: Light yellowish brown (10 $yr^{6}/4$) rad and foram bearing clay rich nanno ooze; 63-72% nanno, 20-25% clay, 5-7% foram, 3-5% rad. Slight to moderate mottling scattered through the core; dark grayish brown (2.5 $y^{4}/2$), yellowish brown (10 $yr^{5}/4$), dk grayish brn (10 $yr^{4}/2$), dark brown (10 $yr^{4}/3$), black (10 $yr^{2.5}/1$), grayish brown (10 $yr^{5}/2$), pale brown (10 $yr^{6.5}/3$), very dark grayish brown (10 $yr^{3}/2$). Many of the darker colored mottles appear to have high concentrations of ash in them. Parallel layering 131-132cm depth, very dark gray (2.5 $y^{3}/1$) ash; 153-154cm black (10 $yr^{2.5}/1$) ash; 348-349cm black (10 $yr^{2}/1$) ash; 437-438cm (10 $yr^{2.5}/1$) ash; 560-561cm (10 $yr^{2.5}/1$); 616-618cm very dark gray (10 $yr^{3}/1$). 593-594, 603-606cm: Void.

AGE: Quaternary (N22)

Logged by: Patterson

GENERAL SUMMARY FORM

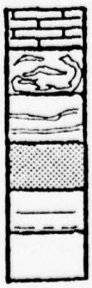


Core No. KK72 PC 002 Sta. 3

Location Lat. 17°54.59'S
Long. 171°21.42'E

GENERAL MEGASCOPIC DESCRIPTION

0-8cm: Very dark grayish brown (10 $yr^{3}/2$) clay and ash rich nannofossil ooze; 60% nanno, 10% clay, 15% volcanic ash and glass, 15% aniso min. 8-234cm: Yellowish brown (10 $yr^{4.5}/4$) to dark grayish brown (10 $yr^{4}/2$) to (10 $yr^{4.5}/2$) to black (10 $yr^{2.5}/1$) diatom, sponge, foram bearing rad and clay rich nannofossil ooze; 63-75% nanno, 10-15% clay, 10-15% rad, 2-7% foram, 0-6% sponge, 0-4% diatom. 234-325cm: Very dark grayish brown (10 $yr^{3}/2$), black (10 $yr^{2.5}/1$) to dark brown (10 $yr^{3}/3$), to very dark gray (10 $yr^{3}/1$) rad and foram bearing clay and ash rich nanno ooze; 55% nanno, 20% clay, 15% ash and glass shard, 5% rad, 5% foram. 325-764cm: Dark brown (10 $yr^{3}/3$) foram and rad bearing clay



Nanno ooze
Mottling
Parallel layering
Volcanic ash and glass
Sharp and gradational contacts

rich nanno ooze; 60-65% nanno, 10-15% clay, 5-10% rad, 10% aniso min (sponge trace). Slight to moderate mottling where indicated throughout core; very dark grayish brown (10 $yr^{3}/2$), black (10 $yr^{2.5}/1$), dark brown (10 $yr^{3}/3$) (10 $yr^{3}/2.5$).

(cont'd)

Logged by: Patterson, Ching & Chung

GENERAL SUMMARY FORM

Depth (cm)

0

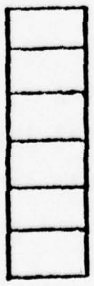
Core No. KK72 PC 002 Sta. 3 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

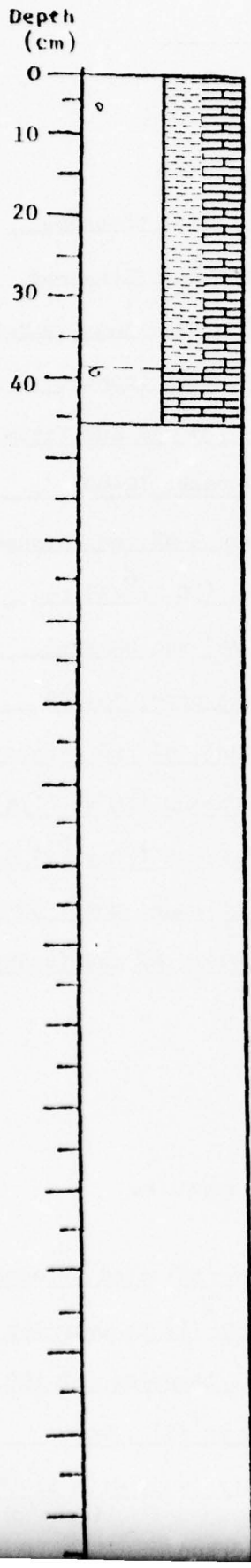
Parallel layering 77-84cm, black (10 $yr^{2.5}/1$); 97-99cm, 105-111cm, 103-104cm very dark brown (10 $yr^{3}/1$), 167-170cm, 303-305cm very dark grayish brown (10 $yr^{3}/2$). Almost all the mottling and layering is composed of volcanic ash and glass.

AGE: Quaternary



Logged by: Patterson, Ching & Chung

GENERAL SUMMARY FORM



Core No. KK72 PC 003 Sta. 4

Location Lat. 15°34.72'S
Long. 174°10.18'E

GENERAL MEGASCOPIC DESCRIPTION

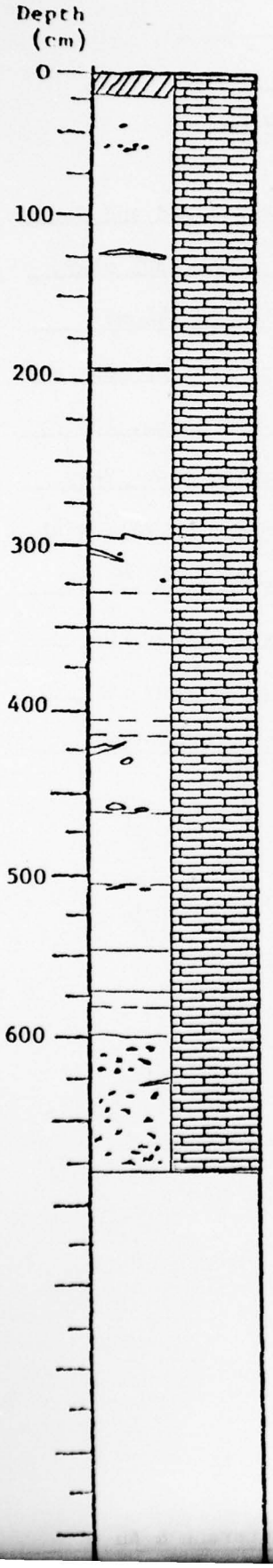
0-38cm: Very dark gray (10 yr 3/1) rad and foram bearing clay nanno ooze; 50% nanno, 30% clay, 8% foram, 7% rad, 5% aniso min. 38-46cm: Yellowish brown (10 yr 5/4) rad bearing clay and foram rich nannofossil ooze; 65% nanno, 15% foram, 10% clay, 5% rad, 5% aniso min. Very slight mottling at 5 and 38cm depth; yellowish brown (10 yr 5/4) and olive brown (2.5 y 4/4). The first 38cm appears to have a heavy concentration of small Mn nodules in a sandy matrix.

AGE: Upper Pliocene-Lower Pleistocene (N21-N22)

Clay-nanno ooze
Nanno ooze
Mottling
Gradational contact

Logged by: Patterson & Au

GENERAL SUMMARY FORM



Core No. KK72 PC 004 Sta. 5

Location Lat. 15°31.05'S
Long. 175°41.19'E

GENERAL MEGASCOPIC DESCRIPTION

0-350cm: Yellowish brown (10 yt^{5}/4) to brown (10 yr$^{5.5}$/3) sponge and rad bearing foram and clay rich nannofossil ooze; 60-70% nanno, 12-20% clay, 10-15% foram, 3-10% rad, 2-5% sponge. 350-460cm: Pale brown (10 yr ^{6}/3) rad and foram bearing clay rich nannofossil ooze; 70-80% nanno, 10-15% clay, 1-5% foram, 3-4% rad (sponge trace). 460-575cm: Pale brown (10 yr^{6}/3) to light yellowish brown (10 yr^{6}/4) rad bearing foram and clay rich nannofossil ooze; 55-70% nanno, 15-20% clay, 10-20% nanno, 4% rad (sponge trace). 575-680cm: Yellowish brown (10 yr$^{5.5}$/4) to pale brown (10 yr^{6}/3.5) to brown (10 yr^{5}/3.5) rad bearing clay and foram rich nanno ooze; 50-55% nanno, 25% foram, 15-20% clay, 4% rad (sponge

Nanno ooze
Mottling
Parallel layering
Rock fragments
Sharp and gradational contacts
Void areas

trace). Slight mottling where indicated through the core; very dark gray (10 yr^{3}/1) to brownish yellow (10 yr^{6}/3.5). Parallel layering 192-192.5 cm depth; very pale brown (10 yr^{7}/3). Core interval from 350-412cm is very sandy with black

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PC 004 Sta. 5 (cont'd)

Location

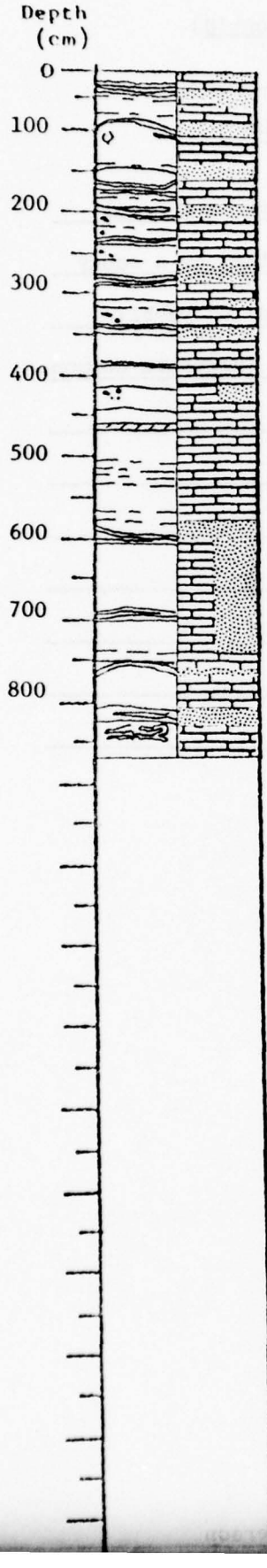
GENERAL MEGASCOPIC DESCRIPTION

ash specks throughout. The core in general below 229cm depth is characterized by a sandy lithology ranging from very fine to pebbly, with larger rock and corraline fragments common.

AGE: Quaternary (N23)

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 006 Sta. 7

Location Lat. 16° 8.88' S
Long. 175° 09.61' W

GENERAL MEGASCOPIC DESCRIPTION

0-19cm: Gray ($10YR^{5}/1.5$) to brown ($10YR^{5.5}/3$) to yellowish brown ($10YR^{5.5}/4$) rad, clay and foram bearing nanno-glass shard ooze; 38-43% volcanic glass, 35-40% nanno, 8-10% foram, 5-10% clay, 5% rad, 2% aniso min. 19-30cm: Dark brown ($10YR^{3}/3$, $^{4}/3$) Diatom, foram, sponge, bearing clay and rad rich nanno ooze; 68% nanno, 15% rad, 10% clay, 3% sponge, 2% foram. 30-53cm: Dark brown ($10YR^{3}/3$) to brown ($10YR^{4}/3$) diatom, sponge, rad, foram, and clay bearing nanno-glass shard ooze; 43% volcanic glass, 35% nanno, 7% clay, 5% foram, 5% rad. 53-73cm: Brown ($10YR^{4}/3$) sponge and rad bearing foram and clay rich nanno ooze; 68% nanno, 12% clay, 10% foram, 7% rad, 2% sponge (diatom trace). 73-109cm: Dark grayish brown ($10YR^{4}/2$) to brown ($10YR^{4}/3$) to dark yellowish

Nanno-glass shard ooze
Nanno ooze
Ash-glass shards
Mottling
Parallel layering
Pebbles

brown ($10YR^{4}/4$) sponge, glass shard, rad and foram bearing clay rich nanno ooze; 63-70% nanno, 10% 10% clay, 5-10% foram, 7% rad, 5-7% volcanic glass shard, 2% sponge (diatom trace).

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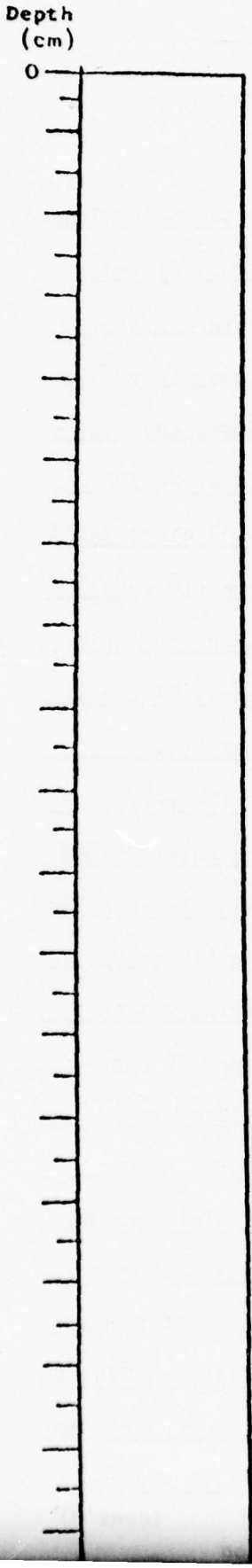
Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 006 Sta. 7 (cont'd)

Location _____

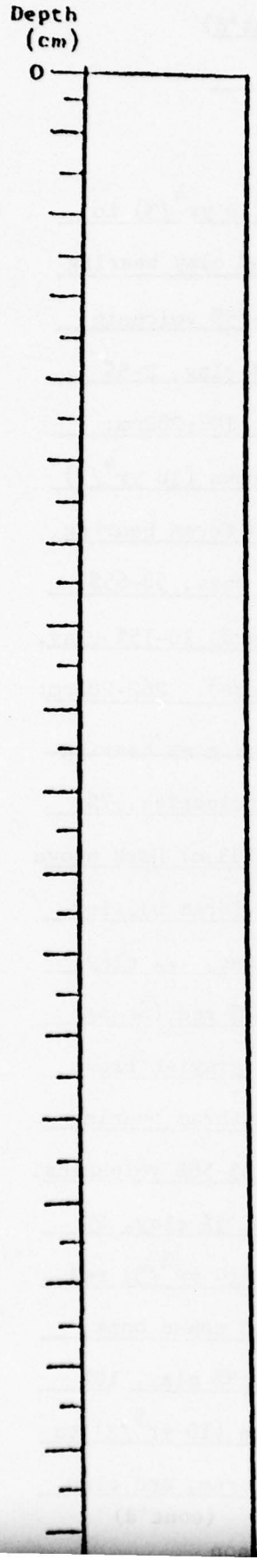
GENERAL MEGASCOPIC DESCRIPTION

190-197cm: Brown (10 $yr^5/3$) to (10 $yr^4/3$) to gray (10 $yr^6/1.5$) rad, foram, and clay bearing nanno rich glass shard ooze; 60-75% volcanic glass shard; 15-20% nanno, 5-10% clay, 2-5% foram, 3-4% rad (sponge trace). 197-262cm: Yellowish brown (10 $yr^5/5$) to brown (10 $yr^4/3$) to dark brown (10 $yr^3/3$) rad and foram bearing clay and glass shard rich nanno ooze; 58-65% nanno, 15-17% volcanic glass shard, 10-15% clay, 5-7% foram, 3-4% rad (sponge trace). 262-282cm: Brown (10 $yr^5/3$) foram, nanno and clay bearing volcanic glass shard ooze; 83% volcanics, 7% clay, 5% nanno, 5% foram. 282-303cm: Dark brown (10 $yr^3/3$) rad, glass shard and foram bearing clay rich nanno ooze; 73-80% nanno, 10% clay, 3-7% foram, 5% glass, 2-4% rad (sponge trace). 303-315cm: Dark grayish brown (10 $yr^4/2$) rad, clay and foram bearing nanno-glass shard ooze; 45-58% volcanics, 28-45% nanno, 3-7% foram, 5% clay, 2% sponge. 315-334cm: Dark brown (10 $yr^3/3$) rad foram, clay and glass shard rich nanno ooze; 60% nanno, 15% volcanic glass, 13% clay, 10% foram, 2% rad. 334-345cm: Brown (10 $yr^5/3$) to grayish brown (10 $yr^5/2$) rad, foram, and clay

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 006 Sta. 7 (cont'd)

Location _____

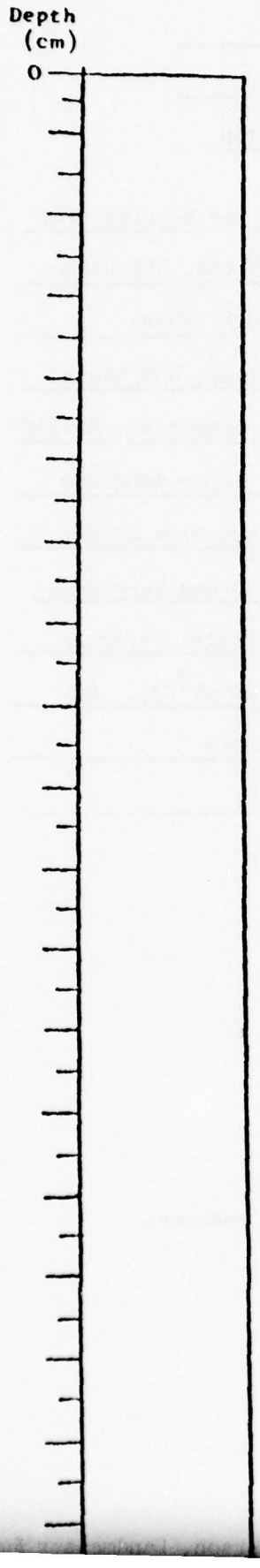
GENERAL MEGASCOPIC DESCRIPTION

bearing nanno rich glass shard ooze; 68% volcanic glass, 22% nanno, 5% clay, 3% foram, 2% rad. 345-429cm: Brown (10 $yr^{4}/3$) to dark grayish brown (10 $yr^{4}/2$) to yellowish brown (10 $yr^{5}/4$) to dark brown (10 $yr^{3}/3$) rad, foram, and clay bearing glass shard rich nanno ooze; 60-70% nanno, 10-15% volcanic glass, 5-10% clay, 3-10% foram, 2-5% rad. 429-440cm: Brown (10 $yr^{5}/3$) rad, foram and clay bearing nanno-glass shard ooze; 47% volcanic glass, 43% nanno, 5% clay, 3% foram, 2% rad. 440-583cm: Dark brown (10 $yr^{3}/3$) to dark grayish brown (10 $yr^{4}/2$) foram, rad and clay bearing nanno ooze; 75-80% nanno, 5-10% clay, 5-10% rad, 5-10% foram (glass trace). 583-595cm: Grayish brown (10 $yr^{5}/2$) foram, clay and nanno bearing volcanic glass shard ooze; 85% glass, 7% nanno, 5% clay, 3% foram. 595-719cm: Dark grayish brown (10 $yr^{4.5}/2$) to brown (10 $yr^{5}/3$) foram, rad and clay bearing nanno-glass shard ooze; 45-55% volcanic glass, 25-43% nanno, 5-10% clay, 5% rad, 2-5% foram. 719-821cm: Dark yellowish brown (10 $yr^{4.5}/4$) to dark brown (10 $yr^{3}/3$) to brown (10 $yr^{4.5}/3$) to very dark grayish brown (2.5 $y^{3.5}/2$) sponge,

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 006 Sta. 7 (cont'd)

Location

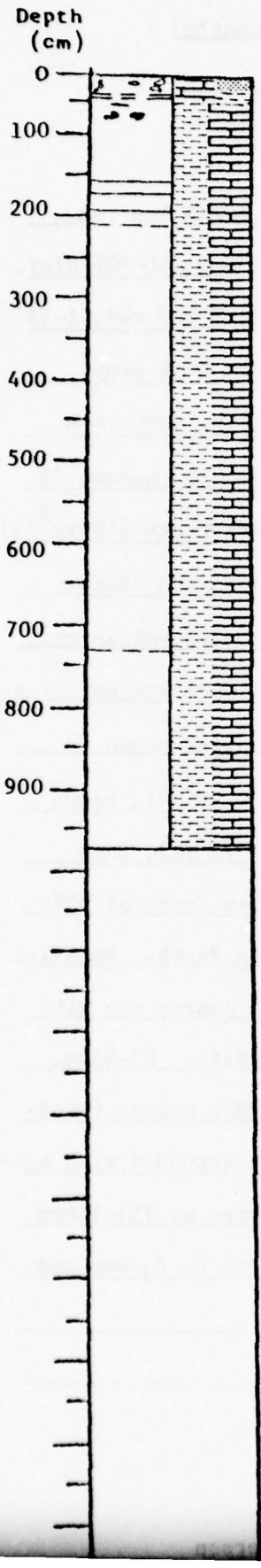
GENERAL MEGASCOPIC DESCRIPTION

diatom, rad, glass shard, and foram bearing clay rich nanno ooze; 48-68% nanno, 10-20% clay, 2-10% foram, 0-10% glass shard, 7-10% rad, 1-3% diatom, 1-4% sponge. 821-832cm: Dark gray (10 $yr^4/1$) foram and clay bearing nanno rich volcanic ash; 80% ash and glass, 10% nanno, 5% foram, 5% clay. 832-866cm: Dark brown (10 $yr^3/3$) foram, rad, and ash bearing clay rich nanno ooze; 72-75% nanno, 10% clay, 5-10% volcanics, 5% rad, 3-5% foram. Slight to moderate mottling scattered through the core: grayish brown (10 $yr^4/2$), yellowish brown (10 $yr^5/4$), brown (10 $yr^4/3$), very dark gray (10 $yr^3/1$), dark brown (10 $yr^3/3$). Small pebbles found at 677-678cm, 257-262cm, and 313-315cm depth. Parallel layer at 51-52cm depth; coarse ash with forams-- possible turbidite. 83-85cm, fine ash layer 137-139cm coarse (sand-silt sized) material interbedded with ash-possible turbidite. Layer at 751-756cm depth macroscopically appears to be forams and ash.

AGE: Quaternary (N23)

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 007 Sta. 8

Location Lat. 18°00.28'S
Long. 170°55.41'W

GENERAL MEGASCOPIC DESCRIPTION

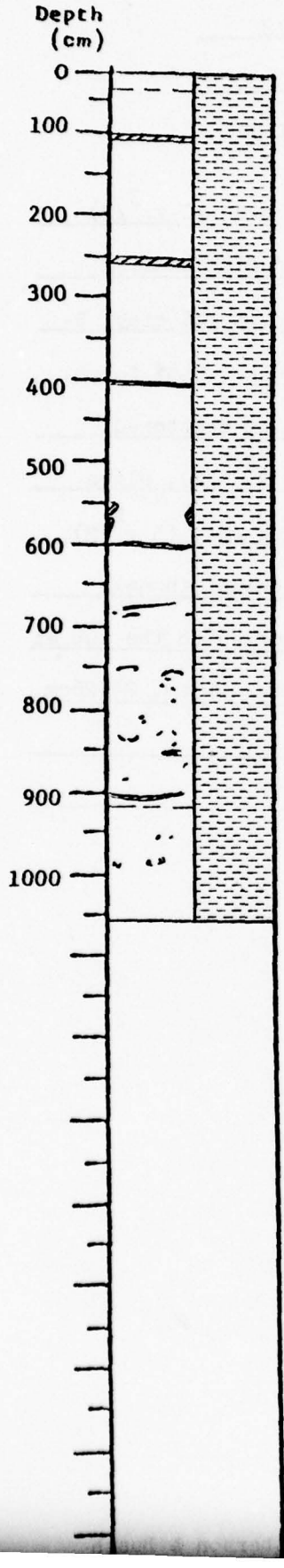
0-40cm: Dark brown (10 yr^3/3) rad bearing clay rich nannofossil ash ooze; 50% ash, 35% nanno, 10% clay, 5% rad. 40-45cm: Dark brown (10 yr^3/3.5) nanno clay; 60% clay, 40% nanno. 45-976cm: Foram bearing clay nanno ooze; 50-65% nanno, 25-40% clay, 5% foram. Some moderate mottling concentrated in the top 51cm of the core; very dark gray (10 yr^3/1) and very dark grayish brown (10 yr^3/2). Parallel layering 157-161cm depth; dark brown (10 yr^3/3). 62-64cm: 2 Mn nodules 1.5cm diameter.

AGE: Undetermined

Nannofossil-ash ooze
Nanno-clay
Clay-nanno ooze
Mottling
Parallel layering
Sharp and gradational contacts

Logged by: Patterson, Landmesser & Ching

GENERAL SUMMARY FORM



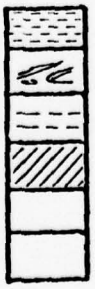
Core No. KK72 PC 008 Sta. 10

Location Lat. 13°18.97'S
Long. 102°6.43'W

GENERAL MEGASCOPIC DESCRIPTION

0-106cm: Black (10 $yr^{2.5}/1$) nanno bearing ash rich clay; 70-75% clay, 10-15% ash, 10% aniso min, 5% foram. 106-1052cm: Black (10 $yr^{2.5}/1$) to very dark gray (10 $yr^{3}/1$) clay; 83-90% clay, 10% aniso min (foram, nanno, and ash trace). Slight to heavy mottling predominantly concentrated near the bottom of the core; dark brown (7.5 $yr^{3}/2$), yellowish brown (10 $yr^{5}/8$), dark grayish brown (10 $yr^{4}/2$). There are some unidentified solid flakes dispersed through the first 34cm. Void areas where indicated.

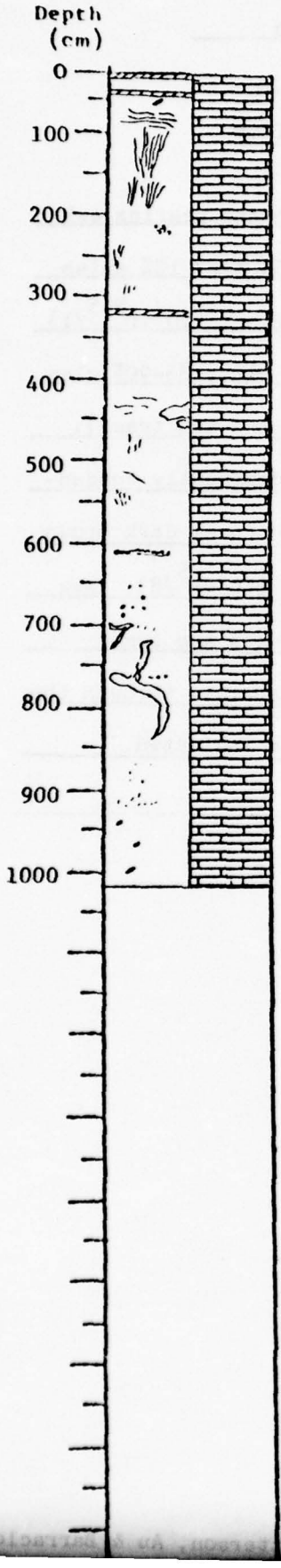
AGE: Quaternary(?)



Clay
Mottling
Gradational contacts
Void areas

Logged by: Patterson, Au & Barraclough

GENERAL SUMMARY FORM



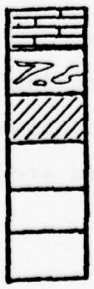
Core No. KK72 PCOD 009 Sta. 12

Location Lat. 04°10.89'S
Long. 81°28.43'W

GENERAL MEGASCOPIC DESCRIPTION

0-1018cm: Very dark grayish brown (10 $yr^{3}/2$) foram, sponge, diatom, rad and clay bearing nannofossil ooze; 60-80% nanno, 5-10% clay, 5-10% rad, 2-6% diatom, 1-4% sponge, 0-5% foram. Very slight to moderate mottling scattered throughout the core; black (5 $y^{2.5}/2$), olive (5 $y^{4}/3$), white (5 $y^{8}/2$), olive gray (5 $y^{4}/2$). There are what appear to be animal tunnels through the core at an angle of 45°to the top at 958cm, 970cm, and 1000cm depth. 0-3cm, 24-26cm, 322-324cm: Void.

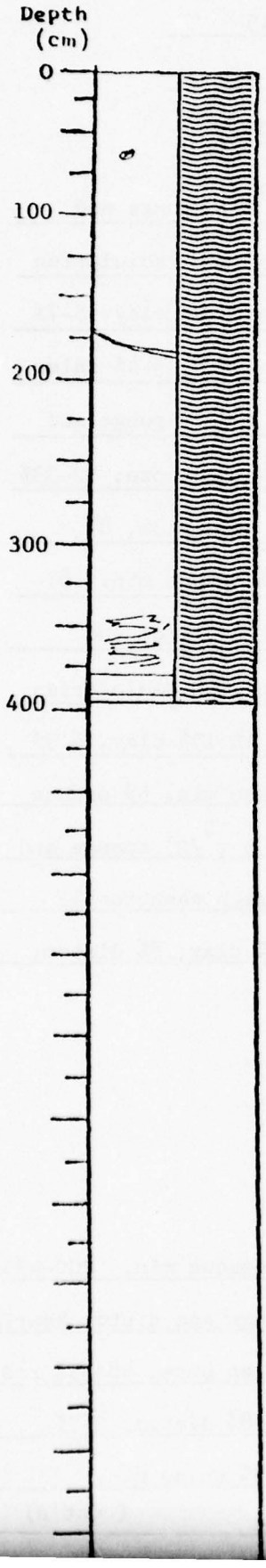
AGE: Quaternary



Nanno ooze
Mottling
Void areas

Logged by: Patterson & Busch

GENERAL SUMMARY FORM



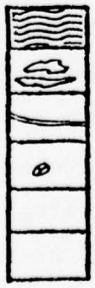
Core No. KK72 PCOD 10 Sta. 14

Location Lat. 04°58.92'S
Long. 81°35.68'W

GENERAL MEGASCOPIC DESCRIPTION

0-395cm: Very dark gray (5 $y^{3.5}/1.5$) sponge, foram, clay, nanno, quartz, and diatom bearing radiolarian ooze; 50-60% rad, 5-10% quartz, 6-10% diatom, 5-10% nanno, 5-10% clay, 2-7% foram, 0-5% sponge, 5-10% aniso min, 0-5% opaque min. Slight to very slight mottling concentrated near the bottom of the core; black (5 $y^{2.5}/2$, $^{2.5}/1$). One thin layer with an angle of about 30° to the surface from 168-180cm; olive gray (5 $y^{4}/2$). Fish vertebrae found at 59 cm depth.

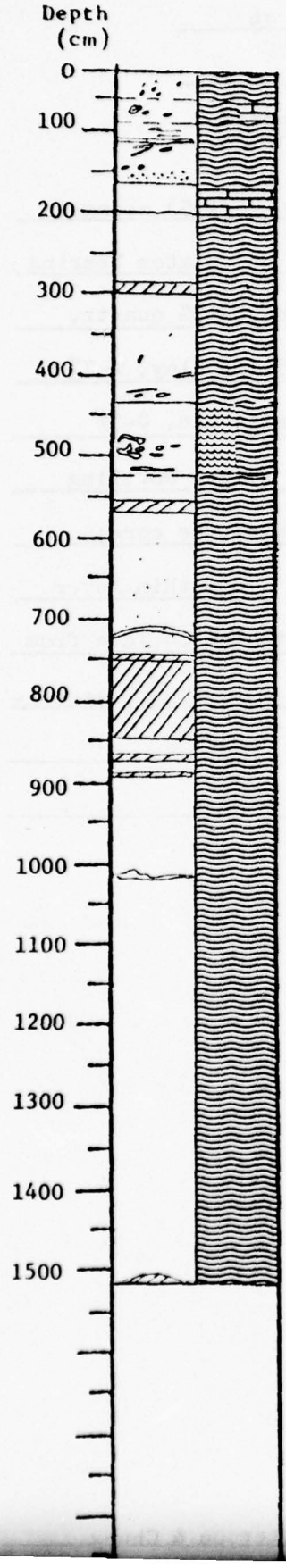
AGE: Quaternary



Radiolarian ooze
Mottling
Parallel layering
Fish vertebrae

Logged by: Patterson & Chung

GENERAL SUMMARY FORM



Core No. KK72 PCOD 11 Sta. 15
Location Lat. 05°41.07'S
Long. 82°20.89'W

GENERAL MEGASCOPIC DESCRIPTION

0-50cm: Dark olive gray (5 $y^{3}/2$) sponge and diatom bearing clay and nanno rich radiolarian ooze; 54-55% rad, 14-19% nanno, 10% clay, 5-7% diatom, 4-7% sponge, 4% opaque min, 3-4% aniso min. 50-87cm: Olive gray (5 $y^{4}/2$) sponge and diatom bearing clay rich rad-nanno ooze; 32-33% nanno, 25% rad, 10-15% clay, 9% diatom, 8% sponge, 5-8% aniso min, 2-11% opaque min. 87-157cm: Dark olive gray (5 $y^{3}/2$) diatom and sponge bearing clay and nanno rich radiolarian ooze; 41-57% rad, 19% nanno, 10-15% clay, 6-9% sponge, 1-6% diatom, 3-8% aniso min, 5% opaque min. 157-200cm: Olive gray (5 $y^{4}/2$) sponge and diatom bearing clay and rad rich nannofossil ooze; 40% nanno, 25% rad, 10% clay, 8% diatom,

Rad ooze
Rad-nanno ooze
Nanno ooze
Diatom-rad ooze
Mottling
Void areas

2% sponge, 8% aniso min, 7% opaque min. 200-435cm: Dark olive gray (5 $y^{3}/2$) sponge and diatom bearing clay and nanno rich radiolarian ooze; 48-55% rad, 17-19% nanno, 10-15% clay, 3-8% diatom, 2-7% sponge, 3-11% opaque min, 2-5% aniso min.

Logged by: Patterson (cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 11 Sta. 15 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

435-526cm: Olive gray (5 $y^{4}/2$) foram bearing clay, sponge, and nanno rich diatom-rad ooze; 31% rad, 28% diatom, 14% nanno, 11% sponge, 10% clay, 2% foram, 3% aniso min, 1% opaque min.

526-716cm: Dark olive gray (5 $y^{3}/2$) sponge, diatom bearing clay and nanno rich rad ooze; 47-56% rad, 15-18% nanno, 10% clay, 4-10% diatom, 1-7% sponge, 6-9% opaque min, 3-10% aniso min.

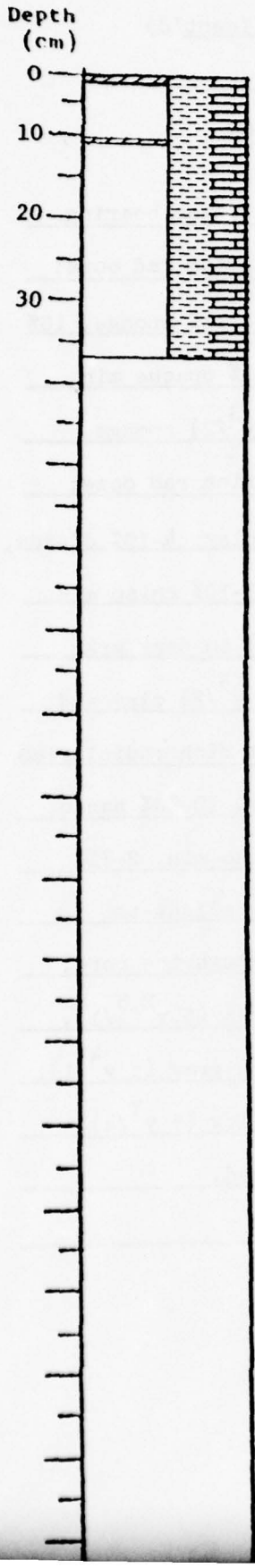
716-1523cm: Olive gray (5 $y^{4}/2$) to dark gray (5 $y^{4}/1$) to dark olive gray (5 $y^{3}/2$) clay and sponge bearing nanno and diatom rich radiolarian ooze; 32-43% rad, 20-28% diatom, 10-20% nanno, 4-10% sponge, 5% clay, 3-8% aniso min, 2-7% opaque min (foram trace). Very slight to moderate mottling scattered through the core; light gray (5 $y^{7}/2$), black (5 $y^{2.5}/1$), olive gray (5 $y^{4}/2$), dark gray (5 $y^{4}/1$), olive (5 $y^{4}/3$), pale yellow (5 $y^{7}/4$).

Void areas where indicated.

AGE: Quaternary

Logged by: Patterson

GENERAL SUMMARY FORM



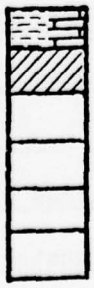
Core No. KK72 PCOD 12 Sta. 17

Location Lat. 06°52.30'S
Long. 81°31.84'W

GENERAL MEGASCOPIC DESCRIPTION

0-37cm: Very dark gray (5 $y^3/1$) diatom and foram bearing rad rich clay nanno ooze; 35% nanno, 25% clay, 10-12% rad, 5% foram, 2-3% diatom, 15% aniso min, 5-8% opaque min (sponge trace). The actual depth of this core is unknown. The sediment was found at 150cm from the bottom of the core.

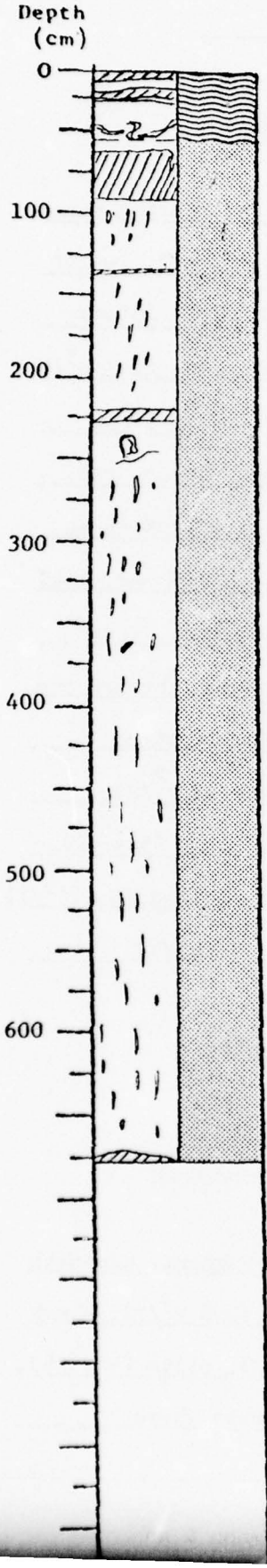
AGE: Undetermined



Clay-nanno ooze

Void areas

GENERAL SUMMARY FORM



Core No. KK72 PCOD 13 Sta. 20
Location Lat. 17°52.90'S
Long. 73°04.18'W

GENERAL MEGASCOPIC DESCRIPTION

0-53cm: Dark gray (10 $yr^{4.5}/1$) to (10 $yr^{4}/1$) sponge and foram bearing clay, nanno, and glass shard rich radiolarian ooze; 35-38% rad, 10-18% volcanic glass, 10% nanno, 10% clay, 5% foram, 2% sponge, 10-15% aniso min, 5% opaque min. 53-225cm: Dark gray (10 $yr^{4}/1$) diatom, foram, and clay bearing nanno and rad rich volcanic ash; 31-50% volcanic ash, 15-20% rad, 10% nanno, 5% clay, 5-6% diatom, 3-5% foram, 15-17% aniso min, 5% opaque. 225-678cm: Dark gray (10 $yr^{4}/1$) diatom, rad, foram, clay and nanno bearing volcanic ash; 42-55% volcanic ash, 7-10% nanno, 5-8% clay, 3-5% foram, 3% rad, 2% diatom, 15-17% aniso min , 5% opaque min. Very slight to heavy mottling concentrated near the top of the core

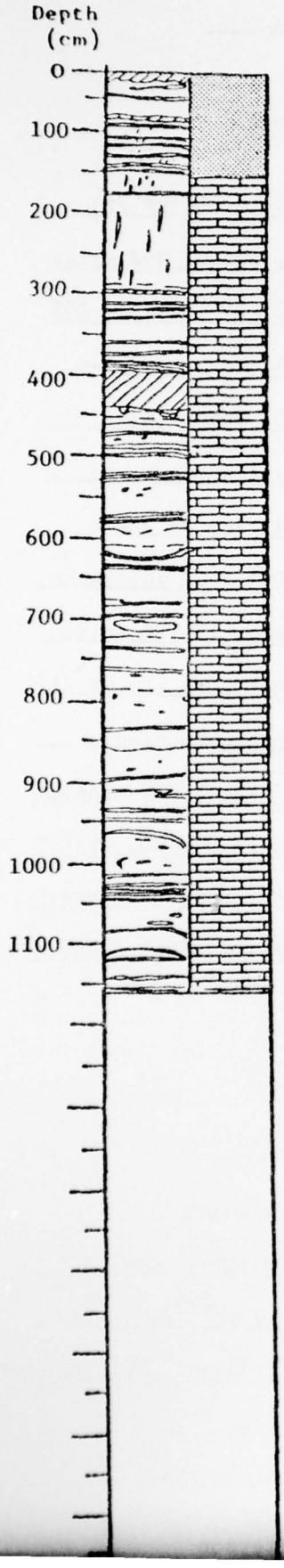
Radiolarian ooze
Ash
Mottling
Pebble
Void areas
Sharp and gradational contact

with faint black streaking throughout the core; dark gray (10 $yr^{4}/1$), black (10 $yr^{2.5}/1$), gray (10 $yr^{5.5}/1$). Pebble found at 368cm. Void areas where indicated.

AGE: Upper Pliocene-Lower Pleistocene

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PCOD 15 Sta. 22
Location Lat. 19°01.35'S
Long. 72°48.53'W

GENERAL MEGASCOPIC DESCRIPTION

0-150cm: Dark gray (5 $y^{4.5}$/1) rad bearing nanno rich ash and glass shard ooze; 50% ash, 10-15% nanno, 0-5% rad, 40% aniso min. 150-1159cm: Dark gray (5 $y^{4.5}$/1) to grayish brown (2.5 y^{5}/2) to gray (5 y^{5}/1) to olive (5 y^{5}/3) to light brownish gray (2.5 y^{6}/2) sponge, diatom, rad, clay and ash bearing nanno ooze; 45-70% nanno, 6-13% volcanic ash, 2-10% clay, 3-10% rad, 1-4% diatom, 1-4% sponge, 8-20% aniso min. Very slight to slight mottling scattered through the core with a few moderate to heavy mottles; greenish gray (5 $gy^{4.5}$/1), black (5 y^{2}/2), grayish brown (5 $y^{2.5}$/2), olive gray (5 y^{5}/2), gray (5 y^{5}/1), dark gray (2.5 y^{4}/0) and (5 $y^{4.5}$/1), olive (5 y^{5}/4), very dark gray (5 y^{3}/1).

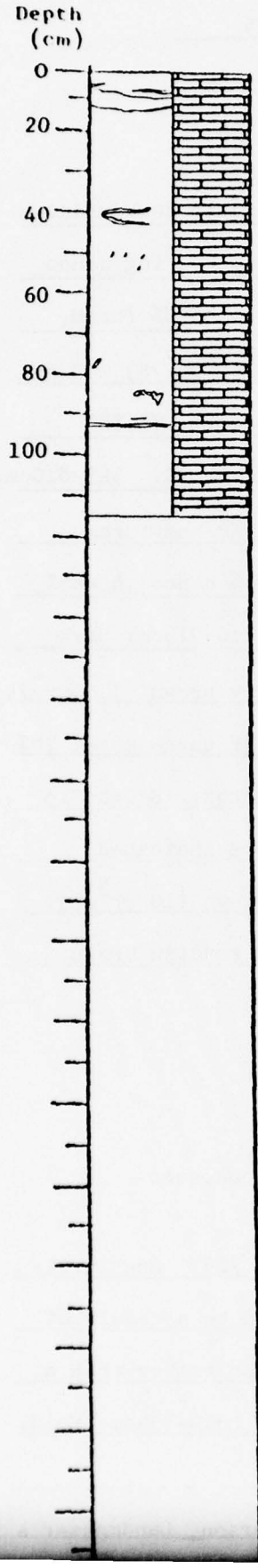
Ash and glass shard ooze
Nanno ooze
Mottling
Parallel layering
Sharp and gradational contacts
Void areas

Parallel layering abundant throughout, greenish gray (5 gy^{4}/1), grayish brown (2.5 y^{5}/2), black (5 $y^{2.5}$/2), olive gray (5 y^{5}/2), olive (5 y^{5}/4), dark gray (2.5 y^{4}/0). Void areas where indicated.

AGE: Undetermined

Logged by: Patterson & Au

GENERAL SUMMARY FORM

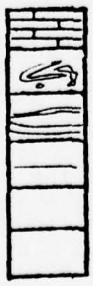


Core No. KK72 PCOD 16 Sta. 24
Location Lat. 19°2.85'S
Long. 71°33.40'W

GENERAL MEGASCOPIC DESCRIPTION

0-7cm: Dark grayish brown (2.5 $y^{4}/2$) rad and clay bearing ash rich nanno ooze; 40% nanno, 25% volcanic glass, 10% clay, 4% rad, 1% diatom, 25% aniso min. 7-114cm: Olive (5 $y^{5}/3$) to olive gray (5 $y^{4}/2$) rad and clay bearing ash rich nanno ooze; 65-70% nanno, 10-13% volcanic ash and glass, 5% clay, 3-5% rad, 7-15% aniso min (diatom trace). Slight to moderate mottling scattered throughout the core; grayish brown (2.5 $y^{5}/2$), very dark gray (2.5 $y^{3}/0$), light olive gray (5 $y^{6}/2$). Parallel layering at 91-92cm, greenish-gray (5 $gy^{5}/1$).

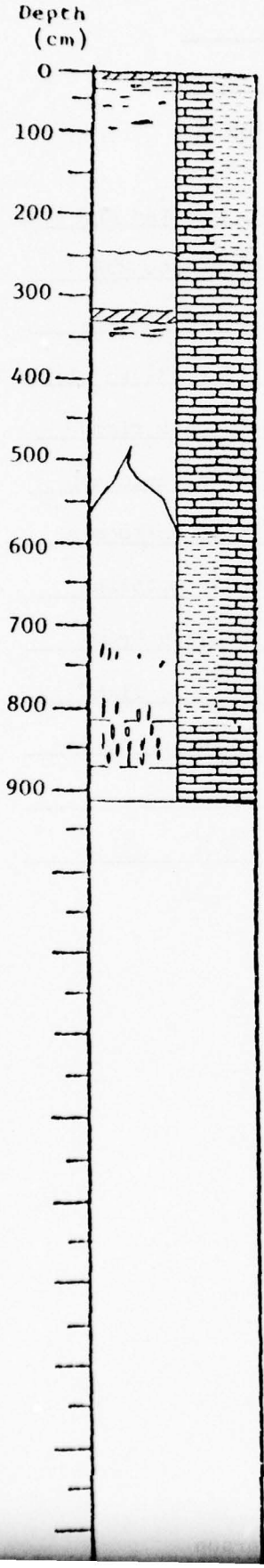
AGE: Quaternary(?)



Nanno ooze
Mottling
Parallel layering
Sharp contact

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PCOD 17 Sta. 25

Location Lat. 17°59.47'S
Long. 95°14.01'W

GENERAL MEGASCOPIC DESCRIPTION

0-245cm: Dark brown (7.5 $yr^{3}/2$) to dark reddish brown (5 $yr^{2.5}/2$) rad and foram bearing nanno clay; 45-50% clay, 35-45% nanno, 5-8% foram, 3-8% rad. 245-525cm: Brown (7.5 $yr^{4}/4$) rad and foram bearing clay rich nanno ooze; 73-78% nanno, 15-20% clay, 5% foram, 2% rad. 525-810cm: Dark reddish brown (5 $yr^{3}/2$) rad and foram bearing clay nanno ooze; 48-50% nanno, 40-45% clay, 3-5% foram, 0-2% rad. 810-915cm: Dark reddish brown (5 $yr^{3}/4$) to dark brown (7.5 $yr^{4}/4$) rad and foram bearing clay rich nanno ooze; 78% nanno, 15% clay, 5% foram, 2% rad. Slight to moderately heavy mottling where indicated through the core; yellowish brown (10 $yr^{5}/6$), reddish brown (5 $yr^{3}/2$), dark reddish brown

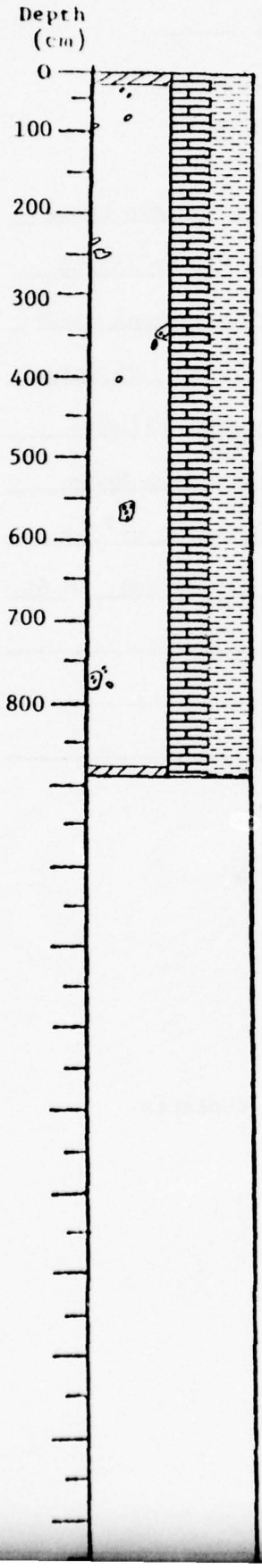
Nanno-clay
Nanno ooze
Clay-nanno ooze
Mottling
Sharp and gradational contacts
Void areas

(5 $yr^{3}/4$), dark brown (7.5 $yr^{3}/2$). Angularity of contact at 500cm appears to be a result of flowage during coring operation rather than a stratigraphic feature. 0-6cm, 319-334cm: Void.

AGE: Miocene(?)

Logged by: Patterson, Landmesser & Ching

GENERAL SUMMARY FORM



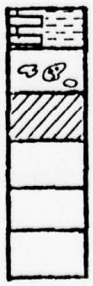
Core No. KK72 PCOD 18 Sta. 26

Location Lat. 18°0.08'S
Long. 99°47.31'W

GENERAL MEGASCOPIC DESCRIPTION

0-886cm: Very dark gray (10 yr ^{3}/1.5) radiolarian rich nannofossil clay; 47-70% clay, 25-49% nanno, 10-16% rad (foram and aniso min traces). Slight to moderate mottling scattered through the core; yellowish brown (10 yr ^{5}/6), black (10 yr $^{2.5}$/1), dark yellowish brown (10 yr ^{4}/4), brownish yellow (10 yr ^{6}/6), strong brown (7.5 yr ^{5}/6). The mottles appear to be nanno-clay with almost no trace of rads. Mottled areas appear partially lithified. 0-12cm, 881-886cm: Void.

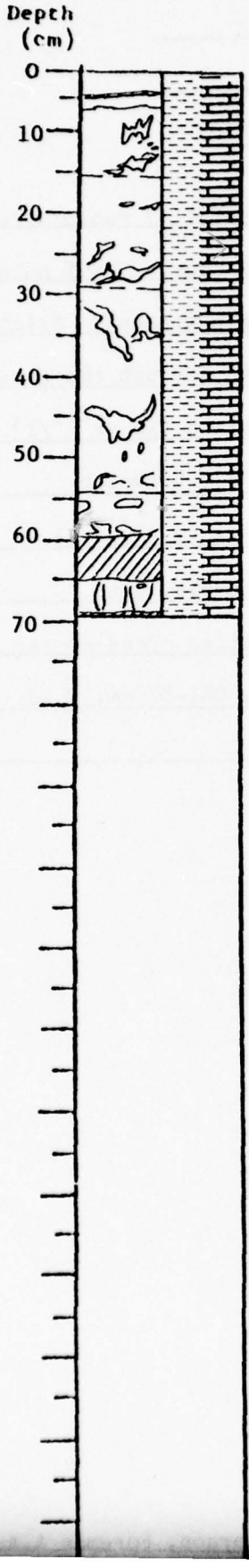
AGE: Undetermined



Nanno-clay
Mottling
Void areas

Logged by: Patterson, Foreman & Au

GENERAL SUMMARY FORM



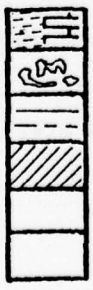
Core No. KK72 FFC 02 Sta. 26

Location Lat. 18°00.01'S
Long. 99°47.64'W

GENERAL MEGASCOPIC DESCRIPTION

0-69cm: Dark brown (7.5 $yr^{3}/2$) to pale brown (10 $yr^{6}/3$) to very pale brown (10 $yr^{7}/3$) to brown (10 $yr^{5}/3$) rad bearing clay-nanno ooze: 50-61% nanno, 32-40% clay, 5-8% rad, 2% aniso min (foram trace). Slight to very slight mottling throughout core; colors dark brown (7.5 $yr^{3}/2$), brown (10 $yr^{4}/3$) to (10 $yr^{5}/3$), pale brown (10 $yr^{6}/3$), white (10 $yr^{8}/2$). 58-65 and 68-69cm: Void.

AGE: Upper Miocene (N 18)



Clay-nanno ooze

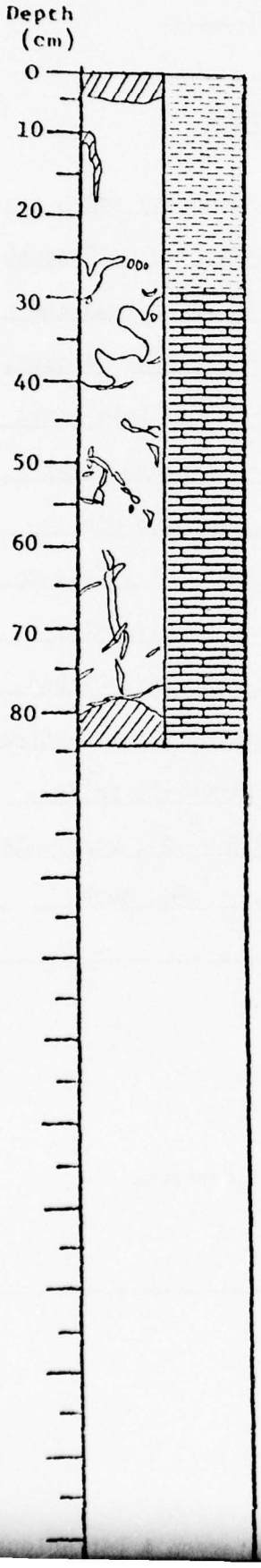
Mottling

Sharp and gradational contacts

Void areas

Logged by: Au

GENERAL SUMMARY FORM



Core No. KK72 FFC 04 Sta. 27
Location Lat. 18°02.06'S
Long. 104°17.62'W

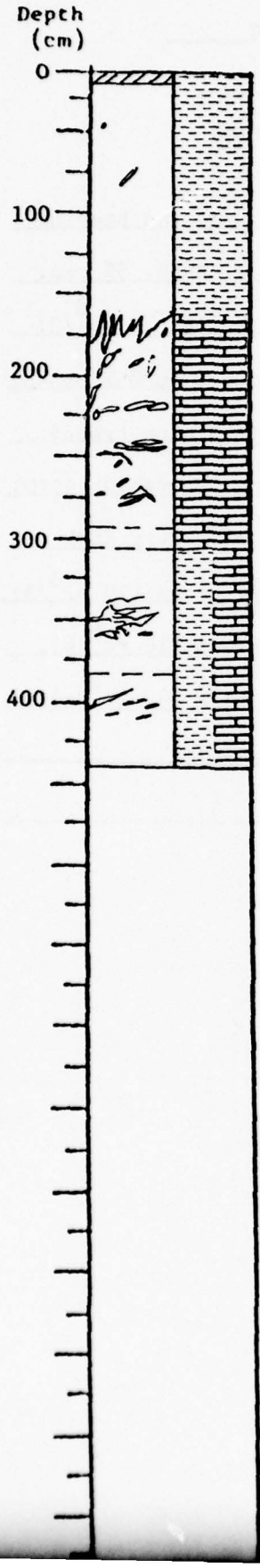
GENERAL MEGASCOPIC DESCRIPTION

0-30cm: Very dark gray (10 yr ^{3}/1) rad bearing nanno rich clay; 69% clay, 25% nanno, 5% rad, (aniso min trace). 30-84cm: White (10 yr ^{8}/2) rad bearing clay rich nanno ooze; 80-85% nanno, 10-15% clay, 4% rad (aniso min-diatom trace). Very slight to slight mottling throughout core; colors very dark gray (10 yr ^{3}/1), very dark grayish brown (10 yr ^{3}/2), dark brown (10 yr ^{3}/3), brown (10 yr ^{5}/3), yellowish brown (10 yr ^{5}/4), very pale brown (10 yr ^{7}/4), white (10 yr ^{8}/1) to (10 yr ^{8}/2). 0-4 and 80-84cm: Void.

AGE: Upper Miocene (N18)

Clay
Nanno ooze
Mottling
Sharp contact
Void areas

GENERAL SUMMARY FORM



Core No. KK72 PCOD 19 Sta. 27

Location Lat. 18°01.86'S
Long. 104°18.32'W

GENERAL MEGASCOPIC DESCRIPTION

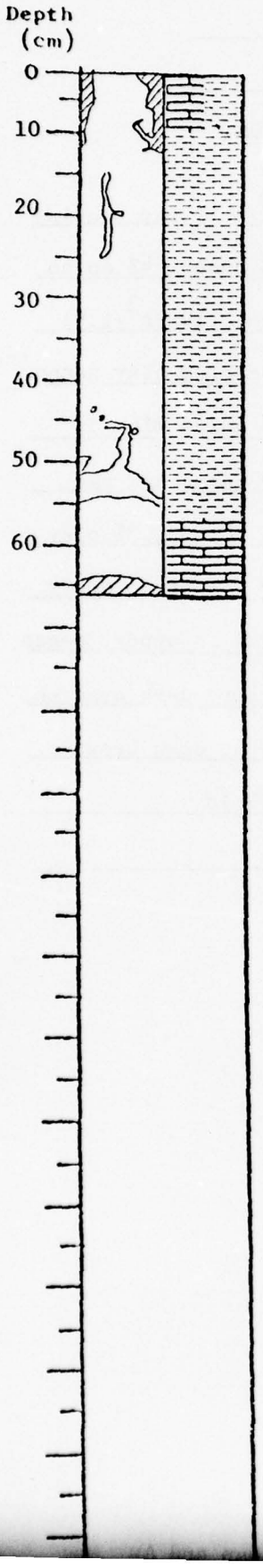
0-163cm: Black (10 yr $^{2.5}$/1) nanno and rad bearing clay; 79-93% clay, 5-7% rad, 0-7% nanno. 163-290cm: Very pale brown (10 yr ^{8}/3) rad and clay bearing nanno ooze; 94-95% nanno, 2% clay, 2% rad, 1-2% aniso min. 290-305cm: Pale brown (10 yr ^{6}/3) rad bearing clay rich nanno ooze; 86% nanno, 10% clay, 2% rad, 2% aniso min. 305-437cm: Light yellowish brown (10 yr ^{6}/4) to yellowish brown (10 yr ^{5}/4) rad bearing clay nanno ooze; 66-71% nanno, 25-30% clay, 2% rad, 2% aniso min. Slight to heavy mottling scattered through the core; yellowish brown (10 yr ^{5}/6), black (10 yr $^{2.5}$/1), white (2.5 y ^{8}/2), very pale brown (10 yr ^{7}/3), yellow (10 yr ^{7}/6), dark yellowish brown (10 yr ^{4}/4).

Clay
Nanno ooze
Clay-nanno ooze
Mottling
Sharp and gradational contacts
Void area

AGE: Upper Miocene (N18)

Logged by: Patterson & Barraclough

GENERAL SUMMARY FORM



Core No. KK72 FFC 06 Sta. 28
Lat. 18°00.37'S
Location Long. 107°00.91'W

GENERAL MEGASCOPIC DESCRIPTION

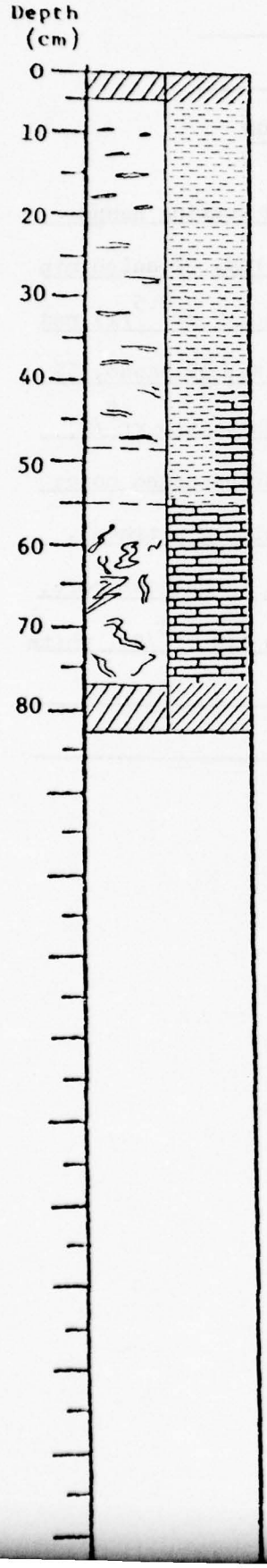
0-10cm: Black (10 yr $^{2.5}$/1) rad bearing nanno clay; 62% clay, 33% nanno, 4% rad, 2% aniso min (foram trace). 10-55cm: Black (10 yr $^{2.5}$/1) rad and nanno bearing clay; 86% clay, 5% nanno, 5% aniso min, 4% rad. 55-67cm: White (10 yr ^{8}/2) to (10 yr ^{8}/1) clay and rad bearing nanno ooze; 93% nanno, 4% rad, 2% clay (aniso min trace). Very slight to slight mottling throughout core; colors very dark grayish brown (10 yr ^{3}/2), white (10 yr ^{8}/2) to (10 yr ^{8}/1).

AGE: Upper Miocene (N18)

Nanno-clay
Clay
Nanno ooze
Mottling
Void areas

Logged by: AU

GENERAL SUMMARY FORM



Core No. KK72 FFC 07 Sta. 28

Location Lat. 18°00.38'S
Long. 107°00.03'W

GENERAL MEGASCOPIC DESCRIPTION

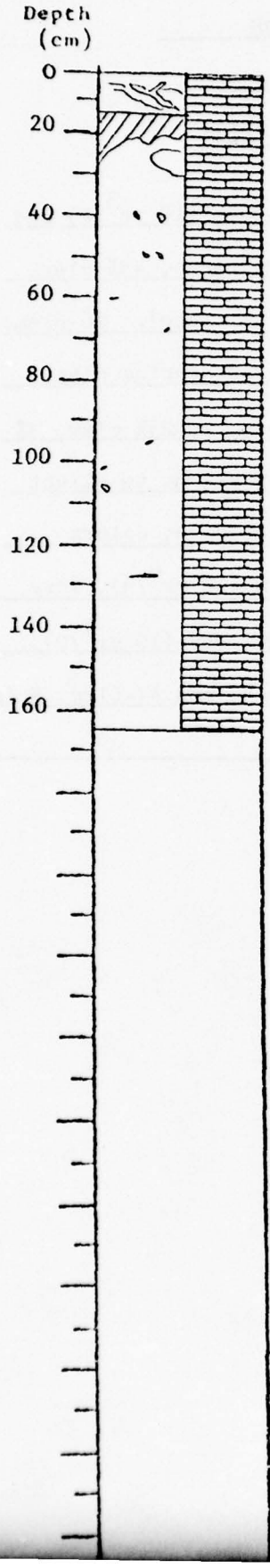
0-40cm: Very dark gray (10 yr ^{3}/1.5) rad bearing nanno rich clay; 83% clay, 10% nanno, 4% aniso, 3% rad. 40-55cm: Very dark gray (10 yr ^{3}/1.5) to dark brown (10 yr ^{3}/3) rad bearing clay-nanno ooze; 45% nanno, 40% clay, 10% aniso min, 5% rad. 55-82cm: White (10 yr ^{8}/2) clay and rad bearing nanno ooze; 94% nanno, 3% rad, 3% clay (foram-aniso min trace). Very slight to heavy mottling throughout core; sparse in upper, dense in lower half of core; colors very dark grayish brown (10 yr ^{3}/2) to (10 yr ^{3}/1.5), dark brown (10 yr ^{3}/3). 0-5 and 77-83cm: Void.

AGE: Upper Miocene (N18)

Clay
Clay-nanno ooze
Nanno ooze
Mottling
Gradational contacts
Void areas

Logged by: Foreman and Au

GENERAL SUMMARY FORM

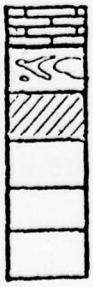


Core No. KK72 PCOD 20 Sta. 28
Location Lat. 18°00.36'S
Long. 106°59.57'W

GENERAL MEGASCOPIC DESCRIPTION

0-165cm: Pale brown (10 yr $^{6.5}$/3) rad, foram and clay bearing nanno ooze; 86-89% nanno, 5-8% clay, 2% foram, 2% rad. Very slight to slight mottling where indicated; very pale brown (10 yr ^{8}/4) (10 yr ^{7}/3). Forams are visible macroscopically through the core. 13-29cm: Void.

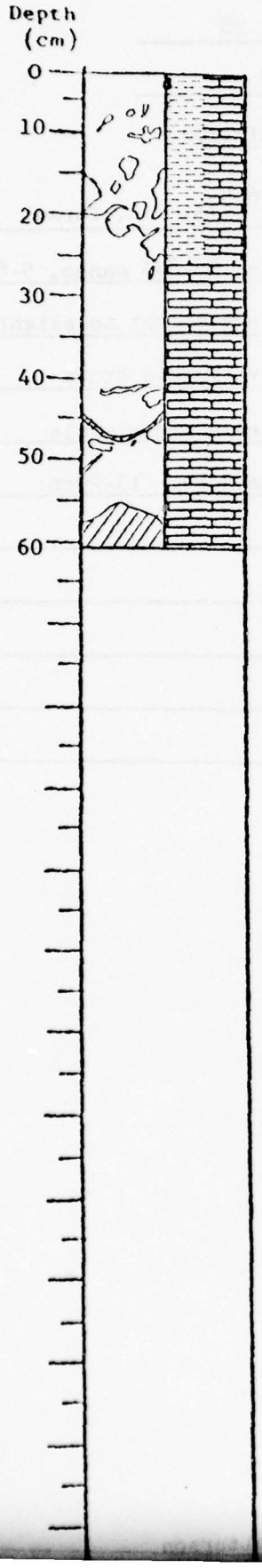
AGE: Upper Miocene (N18)



Nanno ooze
Mottling
Void areas

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 FFC 08 Sta. 28

Location Lat. 18°00.35'S
Long. 106°59.60'W

GENERAL MEGASCOPIC DESCRIPTION

0-26cm: Very dark grayish brown (10 yr 3/2) rad bearing clay-nanno ooze; 50% nanno, 43% clay, 3% rad, 1-4% aniso min (foram trace). 26-61cm: Very pale brown (10 yr 7/3) rad bearing clay rich nanno ooze; 71-76% nanno, 20-25% clay, 3% rad (aniso min trace). Very slight to slight mottling scattered throughout core; colors brown (10 yr 4/3), pale brown (10 yr 6/3), very pale brown (10 yr 8/2), light gray (10 yr 7/2), pale yellow (2.5 y 8/4). 44-47 and 47-61cm: Void.

AGE: Upper Miocene (N18)

Clay-nanno ooze

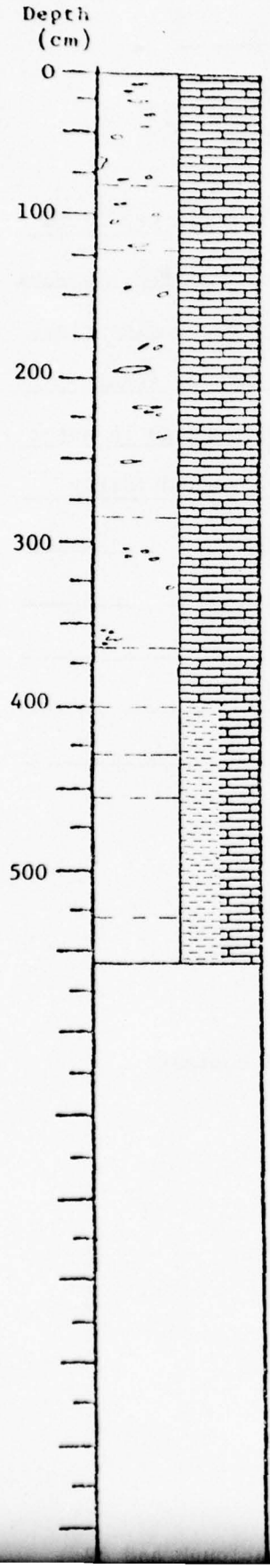
Nanno ooze

Mottling

Void area

Logged by: Au

GENERAL SUMMARY FORM



Core No. KK72 PCOD 21 Sta. 29

Location Lat. 18°22.88'S
Long. 110°25.93'W

GENERAL MEGASCOPIC DESCRIPTION

0-81cm: Pale brown (10 yr^{6}/3) clay rich nanno ooze; 80-87% nanno, 10-15% clay, 3-5% aniso min. 81-283cm: Very pale brown (10 yr^{7}/3) to white (10 yr^{8}/2) foram and clay bearing nanno ooze; 90% nanno, 5% clay, 2-3% foram, 2-3% aniso min. 283-400cm: Very pale brown (10 yr^{7}/3) to pale brown (10 yr^{6}/3) foram bearing clay rich nanno ooze; 83-85% nanno, 10% clay, 2% foram, 3-5% aniso min. 400-553cm: Brown (10 yr^{5}/3) to (10 yr^{4}/3) to dark brown (10 yr^{3}/3) to very dark grayish brown (10 yr^{3}/2) foram bearing clay nanno ooze; 55-75% nanno, 20-40% clay, 3-5% foram, 0-2% aniso min. Moderate to heavy mottling scattered through the top two-thirds of the core; white (10 yr^{8}/2), very pale brown

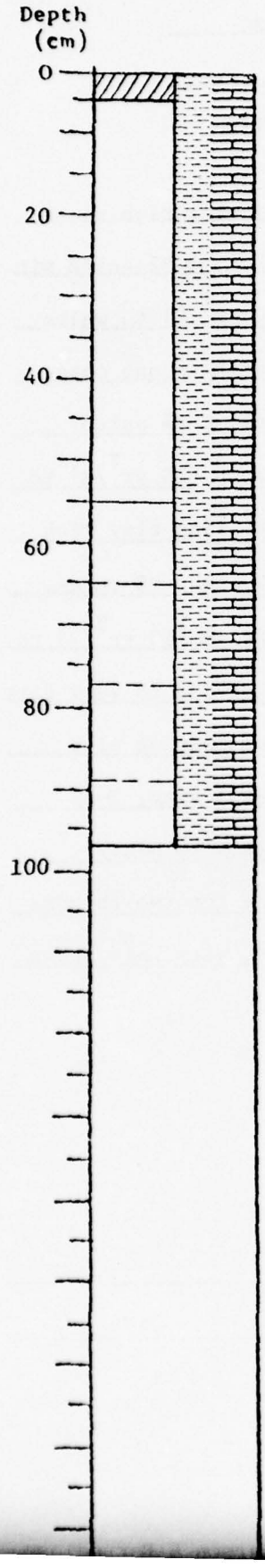
Nanno ooze
Clay-nanno ooze
Mottling
Gradational contact

(10 yr^{7}/3).

AGE: Pliocene (N19)

Logged by: Patterson & Barraclough

GENERAL SUMMARY FORM

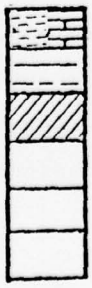


Core No. KK72 FFC10 Sta. 30
Lat. 18°50.45'S
Location Long. 113°16.30'W

GENERAL MEGASCOPIC DESCRIPTION

0-97cm: Very dark grayish brown (10 $yr^{3}/2$) to black (10 $yr^{2.5}/1$) and (5 $yr^{2.5}/1$) to very dark brown (5 $yr^{2.5}/2$). foram bearing clay-nanno ooze; 52% nanno, 46% clay, 2% foram (rad-aniso min trace). Abrupt change in water content at 69cm --very wet above and fairly dry below that interval.

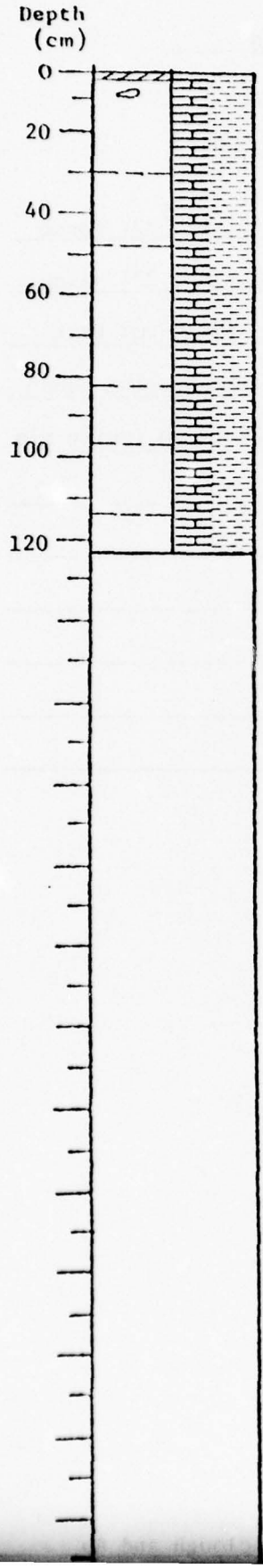
AGE: Quaternary



Clay-nanno ooze
Sharp and gradational contacts
Void area

Logged by: Barraclough and Au

GENERAL SUMMARY FORM



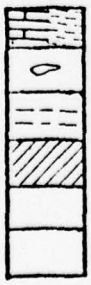
Core No. KK72 FFC13 Sta. 30

Location Lat. 18°50.51'S
Long. 113°31.37'W

GENERAL MEGASCOPIC DESCRIPTION

0-122cm: Black (10 $yr^{2.5}$/1) to dark reddish brown (5 $yr^{2.5}$/2) foram bearing nanno-clay; 47-69% clay, 30-48% nanno, 1-5% foram (aniso min trace). Ash rich mottle present at 8cm depth.

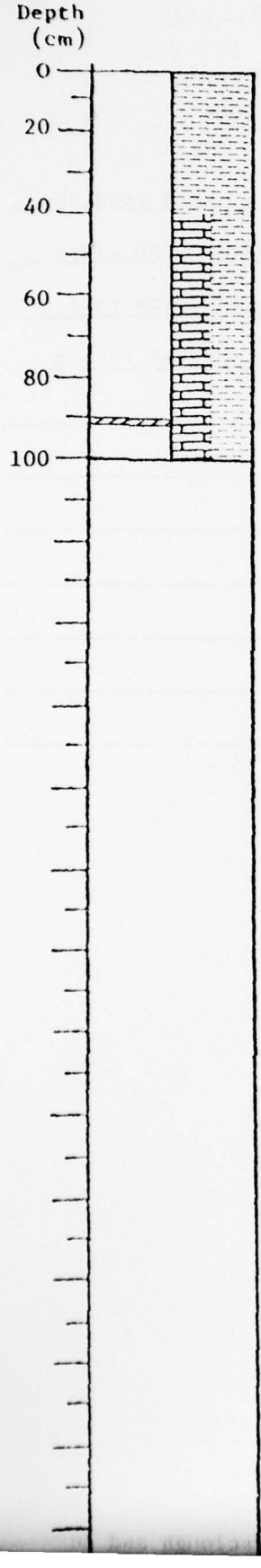
AGE: Quaternary



Nanno-clay
Mottling
Gradational contact
Void area

Logged by: Barraclough and Au

GENERAL SUMMARY FORM



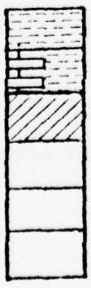
Core No. KK72 FEC 15 Sta. 30

Location Lat. 18°50.48'S
Long. 113°38.37'W

GENERAL MEGASCOPIC DESCRIPTION

0-40cm: Dark reddish brown (5 $yr^{2.5}$/2) foram bearing nanno rich clay; 76% clay, 22% nanno, 2% foram (aniso min trace). 40-100cm: Dark reddish brown (5 $yr^{2.5}$/2) foram bearing nanno-clay; 50% clay, 48% nanno, 2% foram (aniso min trace). 90-92cm: Void.

AGE: Quaternary



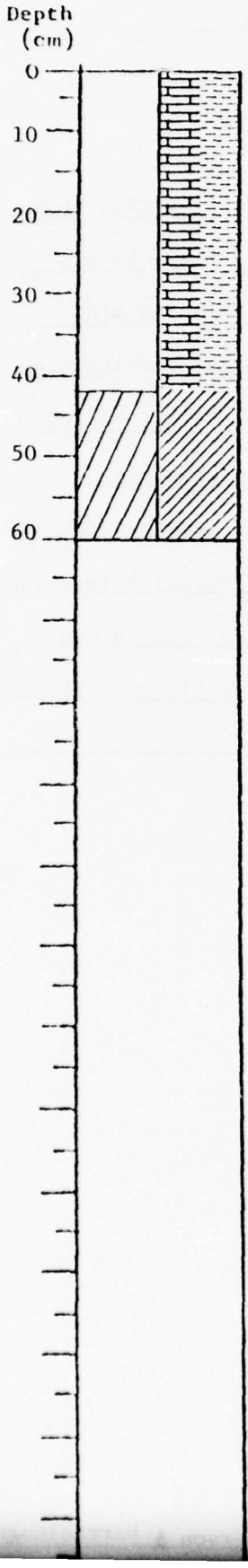
Clay

Nanno-clay

Void area

Logged by: Barraclough and Au

GENERAL SUMMARY FORM



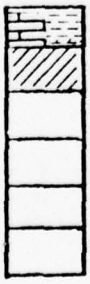
Core No. KK72 FFC 18 Sta. 30

Location Lat. 18°50.40'S
Long. 113°44.55'W

GENERAL MEGASCOPIC DESCRIPTION

0-42cm: Reddish black (10 r $^{2.5}$/1) foram bearing nanno clay; 50% clay, 48% nanno, 2% foram (rad-aniso min trace). 42-60cm: Void.

AGE: Quaternary

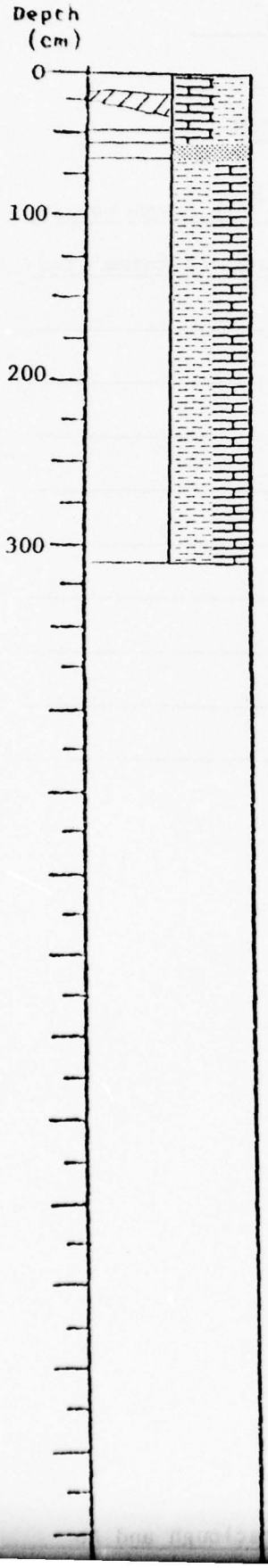


Nanno-clay

Void area

Logged by: Barraclough and Au

GENERAL SUMMARY FORM



Core No. KK72 PCOD 22 Sta. 30

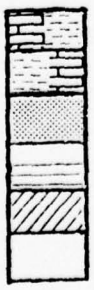
Location Lat. 18°50.13'S
Long. 113°43.64'W

GENERAL MEGASCOPIC DESCRIPTION

0-58cm: Black (5 $yr^{2.5}/1$) to dark reddish brown (5 $yr^{2.5}/2$) foram bearing nanno clay; 55-60% clay, 35-40% nanno, 3% foram, 2% aniso min.

53-312cm: Black (10 $yr^{2.5}/1$) foram bearing clay nanno ooze; 50-55% nanno, 40-45% clay, 4% foram (rad trace). There is almost no visible mottling. Ash staining apparent macroscopically in the (10 $yr^{2.5}/1$) segments. Parallel layering 48-51cm depth; black (10 $yr^{2.5}/1$) and an ash layer 51-58cm dark reddish brown (10 $yr^{2.5}/2$).

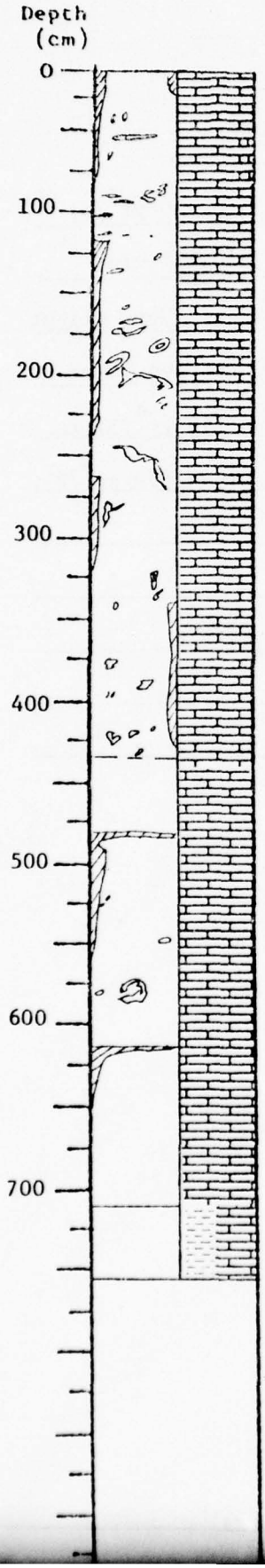
AGE: Quaternary



Nanno clay
Clay-nanno ooze
Ash
Parallel layering
Void areas

Logged by: Patterson & Barraclough

GENERAL SUMMARY FORM



Core No. KK72 PCOD 23 Sta. 31

Location Lat. 19°00.10'S
Long. 111°45.30'W

GENERAL MEGASCOPIC DESCRIPTION

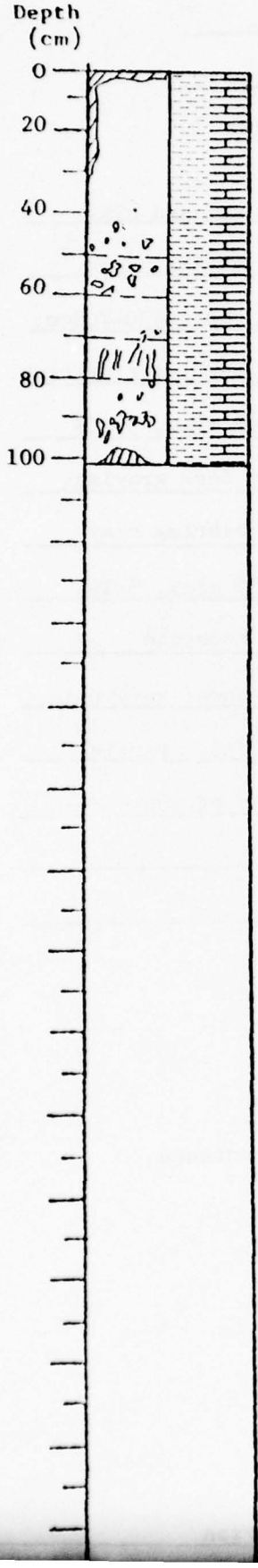
0-430cm: Pale brown (10 yr ^{6}/3) rad and clay bearing foram rich nanno ooze; 67-75% nanno, 10-15% foram, 5-10% clay, 5-8% rad. 430-709cm: Brown (10 yr ^{5}/3) rad and foram bearing clay rich nanno ooze; 70-72% nanno, 15-18% clay, 5-10% foram, 5% rad. 710-752cm: Very dark grayish brown (10 yr ^{3}/2) rad and foram bearing clay nanno ooze; 55-65% nanno, 20-35% clay, 5-10% foram, 5% rad. Very slight to moderate mottling scattered through the core; very pale brown (10 yr ^{8}/3); brown (10 yr ^{5}/3). Partial void due to shrinkage along most of the core liner margin.

AGE: Quaternary

Nanno ooze
Clay-nanno ooze
Mottling
Sharp and gradational contacts
Void areas

Logged by: Patterson

GENERAL SUMMARY FORM



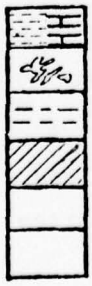
Core No. KK72 FFC 19, Sta. 36
Lat. 28°00.19'S
Location Long. 104°43.78'W

GENERAL MEGASCOPIC DESCRIPTION

0-101cm: Dark brown (10 $yr^{3}/3$) to (10 $yr^{4}/3$) clay-nanno ooze; 53-57% nanno, 40-45% clay (rad, foram, and aniso min trace). Very slight to moderate mottling scattered through lower half of core; colors dark brown (10 $yr^{4}/3$) to (10 $yr^{3}/3$), very dark grayish brown (10 $yr^{3}/2$).

0-30cm: Partial void.

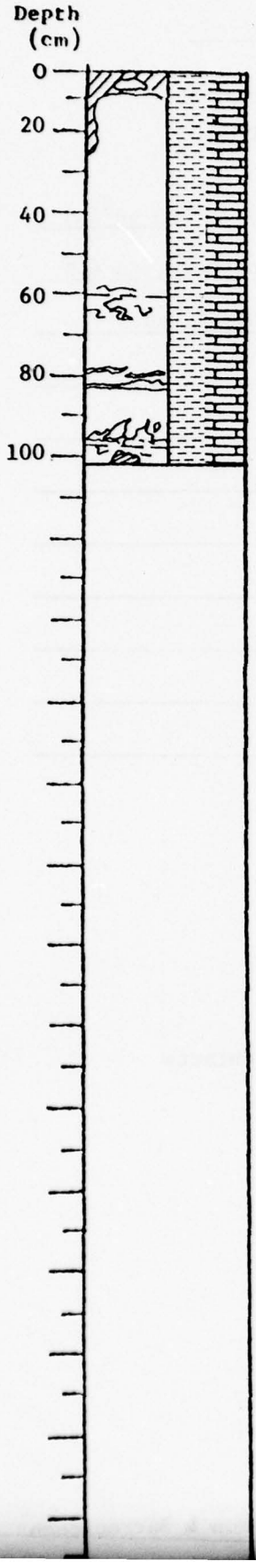
AGE: Pleistocene (N?2)



Clay nanno ooze
Mottling
Gradational contact
Void areas

Logged by: Au

GENERAL SUMMARY FORM



Core No. KK72 FFC 20 Sta. 36

Location Lat. 28°00.34'S
Long. 104°43.87'W

GENERAL MEGASCOPIC DESCRIPTION

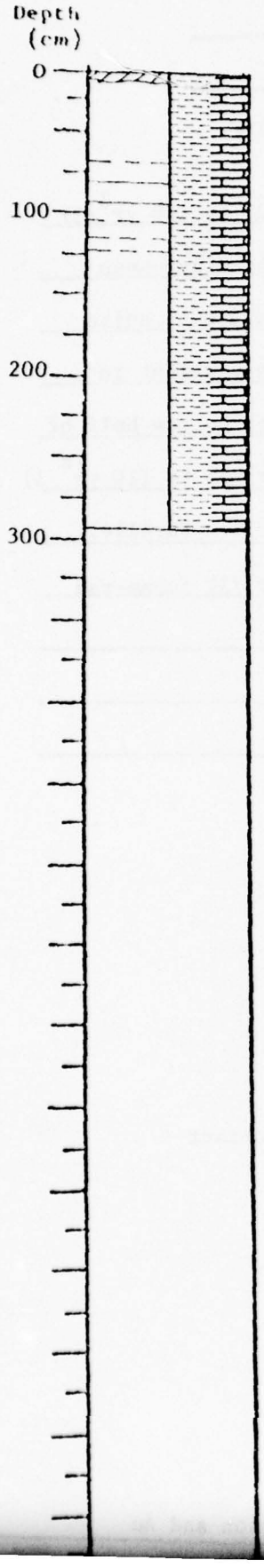
0-102cm: Dark brown (7.5 $yr^3/2$) to (10 $yr^3/3$) to (10 $yr^4/3$) foram-rad bearing clay-nanno ooze; 50-60% nanno, 35-43% clay, 0-5% aniso min, 2-3% rad, 2-3% foram. Very slight to heavy mottles scattered through bottom half of core; colors dark brown (10 $yr^3/3$) to (10 $yr^4/3$) to (7.5 $yr^3/2$), brown (10 $yr^3/3$). Parallel layer at 82-83cm: Brown (10 $yr^5/3$) foram-rad bearing clay-nanno ooze.

AGE: Pleistocene (N22)

Clay-nanno ooze
Mottling
Parallel layering
Sharp and gradational contact
Void area

Logged by: Patterson and Au

GENERAL SUMMARY FORM



Core No. KK72 PCOD 24 Sta. 36

Location Lat. 28°00.53'S
Long. 104°45.27'W

GENERAL MEGASCOPIC DESCRIPTION

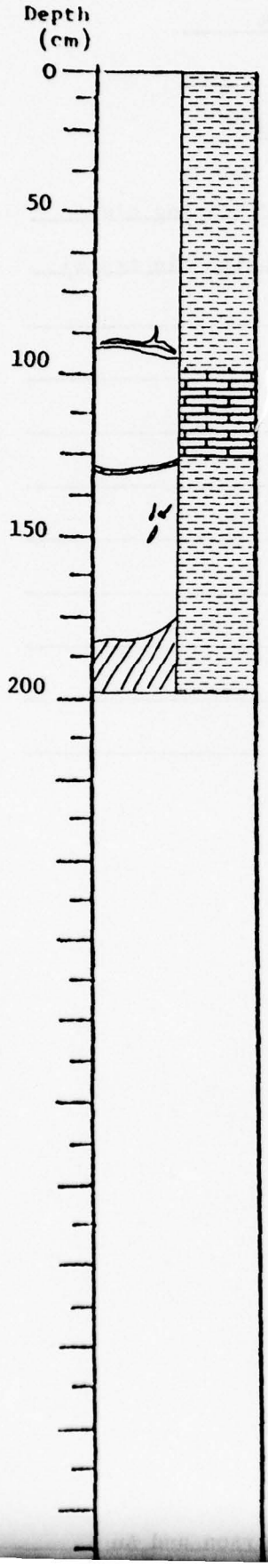
0-297cm: Dark brown (7.5 $yr^3/2$) to (10 $yr^3/3$) rad and foram bearing clay nanno ooze; 50-65% nanno, 25-35% clay, 5-10% foram, 5% rad.

AGE: Quaternary

Clay-nanno ooze
Sharp and gradational contacts
Void areas

Logged by: Patterson & Barraclough

GENERAL SUMMARY FORM



Core No. KK72 PCOD 25 Sta. 37

Location Lat. 23° 40.36' S
Long. 100° 08.83' W

GENERAL MEGASCOPIC DESCRIPTION

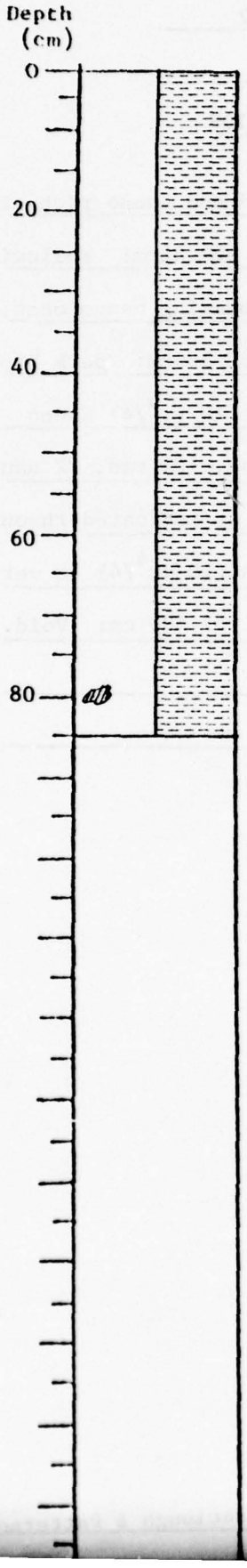
0-92 cm: Black (5 $yr^{2.5}/1$) rad and nanno rich clay; 80% clay, 10% nanno, 10% rad. 92-132cm: Yellowish brown (10 $yr^{5}/4$) rad and clay bearing nanno ooze; 93% nanno, 5% clay, 2% rad. 132-189cm: dark brown (7.5 $yr^{3}/2$) to yellowish brown (10 $yr^{5}/4$) Nanno bearing rad rich clay; 83% clay, 10% rad, 7% nanno. Very slight to slight mottling as indicated through the core; dark yellowish brown (10 $yr^{4}/4$) to very pale brown (10 $yr^{8}/4$). 132cm, 182-190 cm: Void.

AGE: Upper Miocene (N18)

Clay
Mottling
Sharp contact
Void Areas
Nanno ooze

Logged by: Barraclough & Patterson

GENERAL SUMMARY FORM



Core No. KK72 FFC 21 Sta. 38
Lat. 23°40.44'S
Location Long. 100°09.08'W

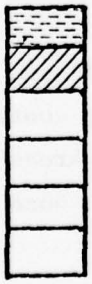
GENERAL MEGASCOPIC DESCRIPTION

0-85cm: Black (5 yr $\frac{2.5}{1}$) rad bearing clay;

96% clay, 3% rad (nanno and aniso min trace).

79-81.5cm: Partial void.

AGE: Pliocene-Quaternary(?)

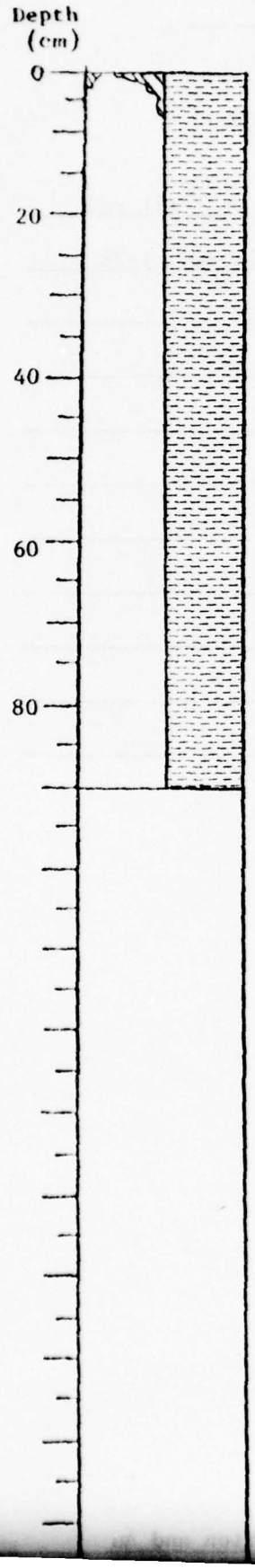


Clay

Void area

Logged by: Patterson and Au

GENERAL SUMMARY FORM



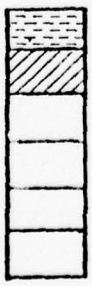
Core No. KK72 FFC 22 Sta. 38

Location Lat. 23°40.43'S
Long. 100°08.94'W

GENERAL MEGASCOPIC DESCRIPTION

0-90cm: Dark reddish brown (5 yr $^{2.5}$/2) rad bearing clay; 97% clay, 2% rad (nanno and aniso min trace). 0-7cm: Partial void.

AGE: Undetermined

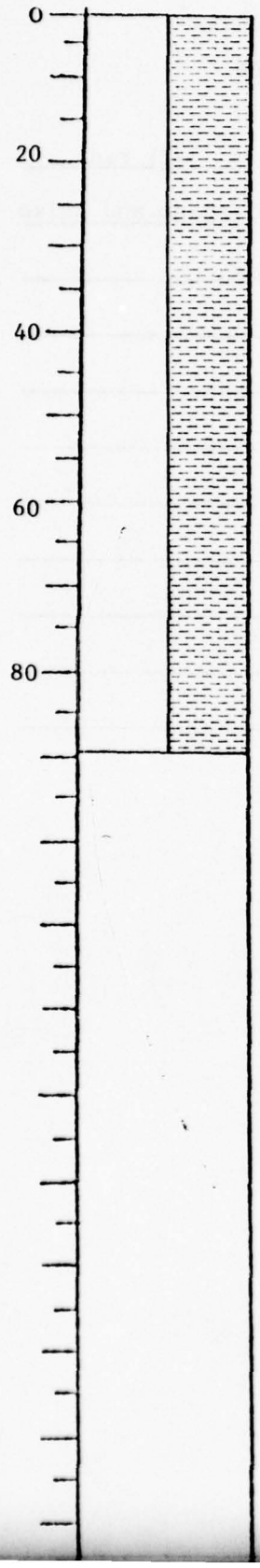


Clay

Void area

Logged by: Au

GENERAL SUMMARY FORM



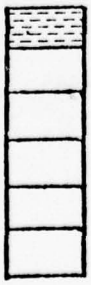
Core No. KK72 FFC 23 Sta. 38

Location Lat. 23°40.42'S
Long. 100°08.66'W

GENERAL MEGASCOPIC DESCRIPTION

0-89cm: Dark reddish brown (5 yr $^{2.5}$/2) rad bearing clay; 93-95% clay, 4-5% rad, 1-2% nanno (aniso min trace).

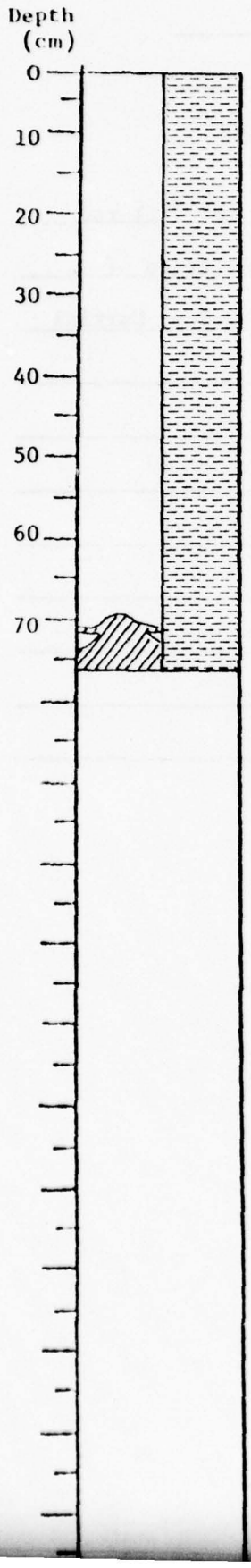
AGE: Pliocene-Quaternary(?)



Clay

Logged by: Patterson and Au

GENERAL SUMMARY FORM



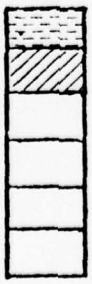
Core No. KK72 FFC 24 Sta. 38

Location Lat. 23°40.40'S
Long. 100°08.44'W

GENERAL MEGASCOPIC DESCRIPTION

0-77cm: Dark reddish brown (5 $yr^{2.5}/2$) rad bearing clay; 97% clay, 2% rad (trace of nannofossils and aniso min). 71-77cm: Void.

AGE: Undetermined

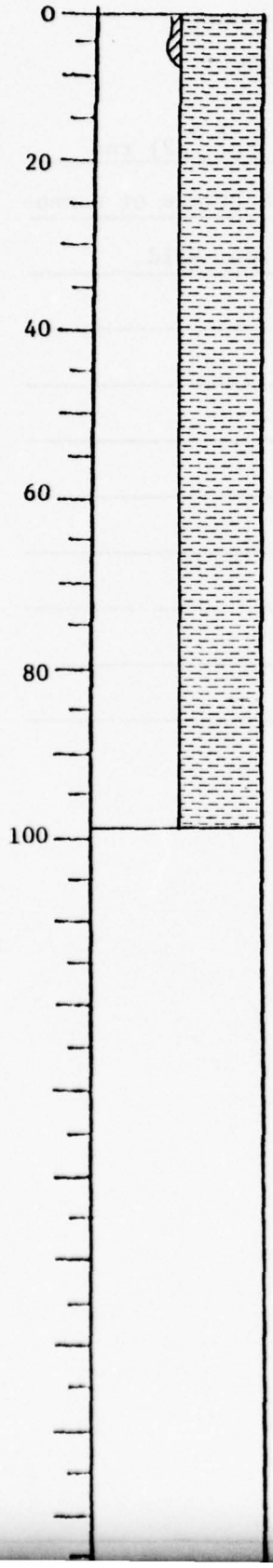


Clay

Void area

Logged by: Au

GENERAL SUMMARY FORM



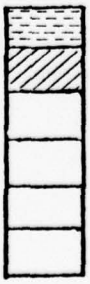
Core No. KK72 EEC 25 Sta. 38

Location Lat. 23°40.38'S
Long. 100°08.15'W

GENERAL MEGASCOPIC DESCRIPTION

0-98cm: Dark reddish brown (5 yr $^{2.5}$/2) rad bearing clay; 97% clay, 2% rad (trace of nannofossils and aniso min). 0-8cm: Partial void.

AGE: Undetermined

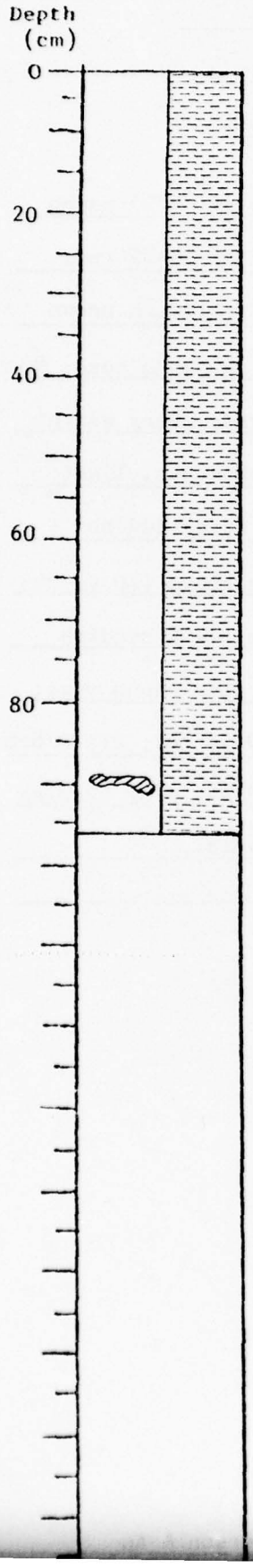


Clay

Void area

Logged by: Au

GENERAL SUMMARY FORM



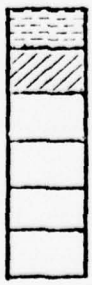
Core No. KK72 FFC27 Sta. 38

Location Lat. 23°40.35'S
Long. 100°07.51'W

GENERAL MEGASCOPIC DESCRIPTION

0-95cm: Black (5 yr $^{2.5}$/1) rad bearing clay; 96% clay, 3% rad (trace of nanno, forem and aniso min). 89-91cm: Partial void.

AGE: Undetermined

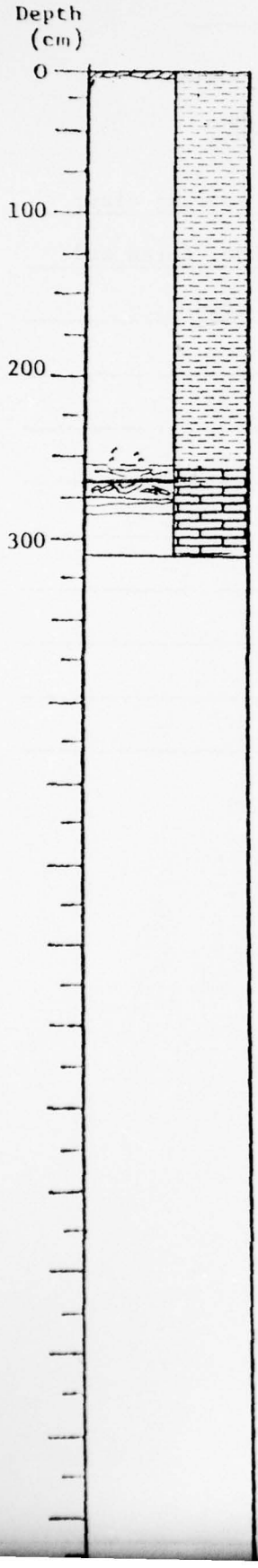


Clay

Void area

Logged by: Au

GENERAL SUMMARY FORM



Core No. KK72 PCOD 26 Sta. 38

Location Lat. 23°40.43'S
Long. 100°8.09'W

GENERAL MEGASCOPIC DESCRIPTION

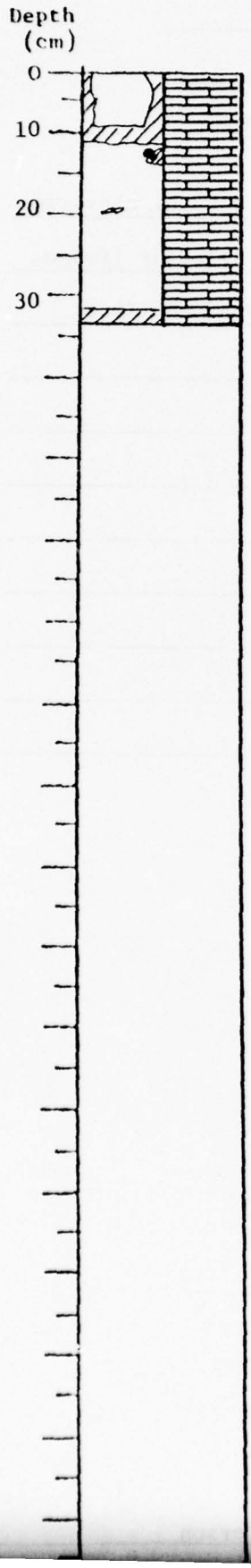
0-259cm: Dark reddish brown (5 yr $^{2.5}$/2) nanno and rad bearing clay; 85-90% clay, 5-8% rad, 3-7% nanno. 259-310cm: Light yellowish brown (10 yr ^{6}/4) rad bearing clay rich nanno ooze; 80-88% nanno, 10-15% clay, 2-5% rad. Very slight to slight mottling at 253-274cm depth, light yellowish brown (10 yr ^{6}/4) to dark reddish brown (5 yr $^{2.5}$/2) to yellowish brown (10 yr ^{5}/4). Parallel layering at 266-267cm; dark reddish brown (5 yr $^{2.5}$/2) rad bearing clay nanno ooze; 274-276cm, yellowish brown (10 yr ^{5}/4); 275-278cm, very pale brown (10 yr ^{8}/4) rad and clay bearing nanno ooze. 0-16cm: Partial void.

AGE: Quaternary

Clay
Nanno ooze
Clay-nanno ooze
Mottling
Parallel layering
Void areas

Logged by: Patterson & Au

GENERAL SUMMARY FORM



Core No. KK72 FFC28 Sta. 39

Location Lat. 24°29.50'S
Long. 111°43.07'W

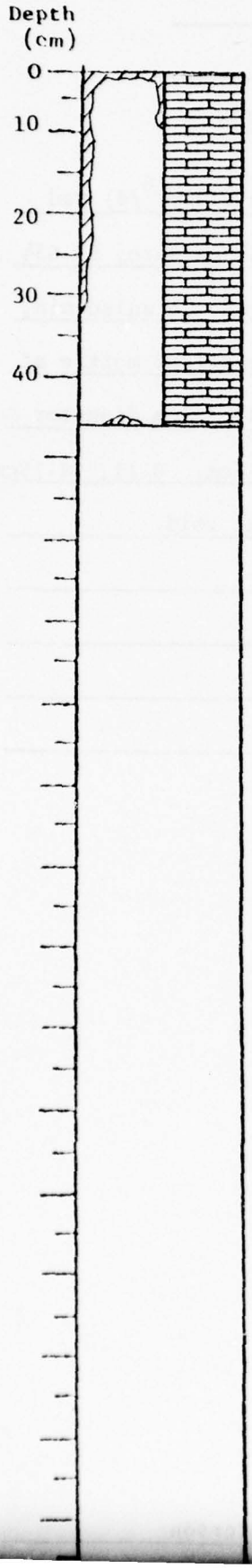
GENERAL MEGASCOPIC DESCRIPTION

0-33cm: Light yellowish brown (10 yr ^{6}/4) rad and foram bearing clay rich nanno ooze; 53-63% nanno ooze; 20-30% clay, 5% rad, 2% aniso min, 10% foram. There is one very slight mottle at 19cm, v. pale brown (10 yr ^{7}/4). 3cm diameter basalt fragment found at 11-13cm. 0-11, 14-15cm: Partial voids. 8-11, 32-33cm: Void.

AGE: Quaternary

Logged by: Patterson

GENERAL SUMMARY FORM



Core.No. KK72 FFC33 Sta. 39

Location Lat. 24°29.47'S
Long. 111°33.76'W

GENERAL MEGASCOPIC DESCRIPTION

0-46cm: Light olive brown (2.5 $y^5/6$) clay rich nanno ooze; 66-70% nanno, 27-33% clay (foram, rad and aniso min traces). 0-33, 45-46cm: Partial voids.

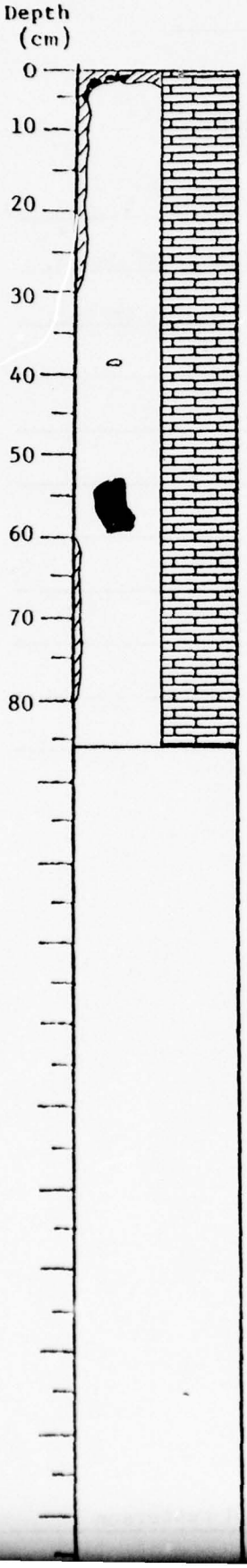
AGE: Pleistocene

Nanno ooze

Void area

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 FFC36 Sta. 39

Location Lat. 24°29.38'S
Long. 111°28.28'W

GENERAL MEGASCOPIC DESCRIPTION

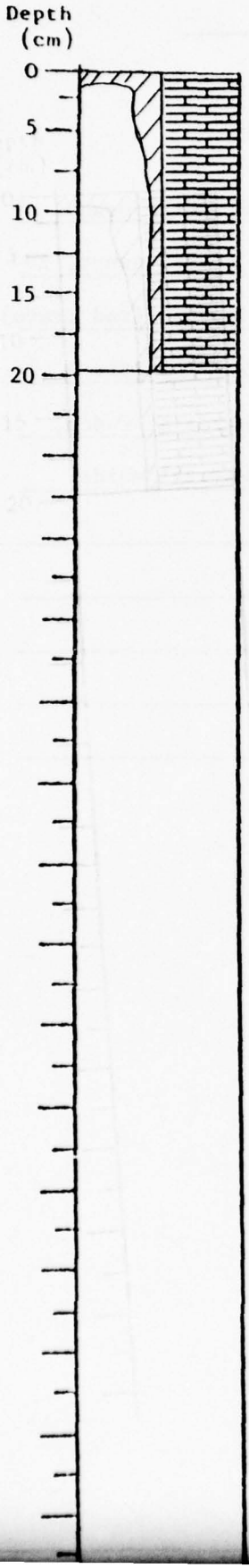
0-86cm: Light olive brown (2.5 $y^{5}/6$) foram bearing clay rich nanno ooze; 66-77% nanno, 20-28% clay, 1-3% foram, 1-2% aniso min (rad trace). Very slight pale yellow (2.5 $y^{8}/4$) mottle at 39cm. Large volcanic glass shards at 0-4cm, 53-59cm. 0-3cm and 60-80cm: Partial voids.

AGE: Holocene (N23)

Nanno ooze
Mottling
Volcanic glass shards
Void area

Logged by: Au

GENERAL SUMMARY FORM



Core No. KK72 FFC 37 Sta. 39

Location Lat. 24°29.37'S
Long. 111°27.76'W

GENERAL MEGASCOPIC DESCRIPTION

0-19cm: Light yellowish brown (10 yr 6/4) rad and foram bearing clay nanno ooze; 60% nanno, 30% clay, 8% foram, 2% rad (aniso min trace).

0-19cm: Partial void.

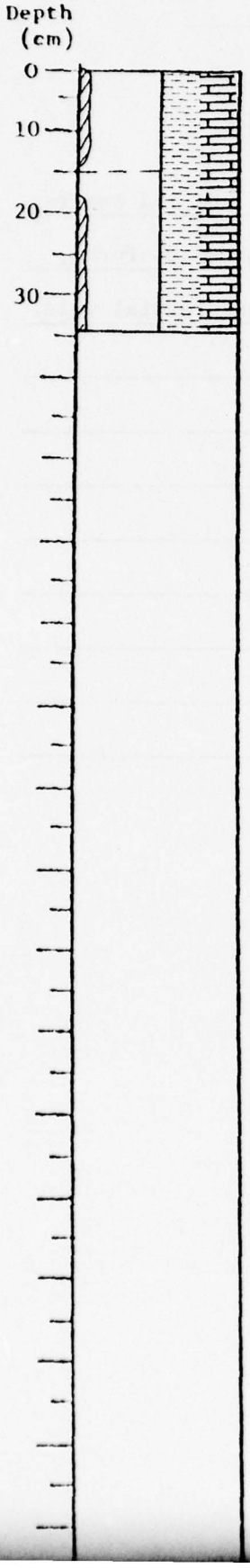
AGE: Pleistocene (N22)

Nanno ooze

Void area

Logged by: Au and Patterson

GENERAL SUMMARY FORM



Core No. KK72 FFC40 Sta. 41

Location Lat. 24°29.12'S
Long. 111°50.62'W

GENERAL MEGASCOPIC DESCRIPTION

0-15cm: Yellowish brown (10 yr^{5}/4) foram rich clay nanno ooze; 57% nanno, 30% clay, 10% foram (rad trace), 2% aniso min. 15-34cm: Light yellowish brown (10 yr^{6}/4) rad and foram bearing clay nanno ooze; 62% nanno, 30% clay, 5% foram, 2% rad, 1% aniso min. 0-34cm: Partial void.

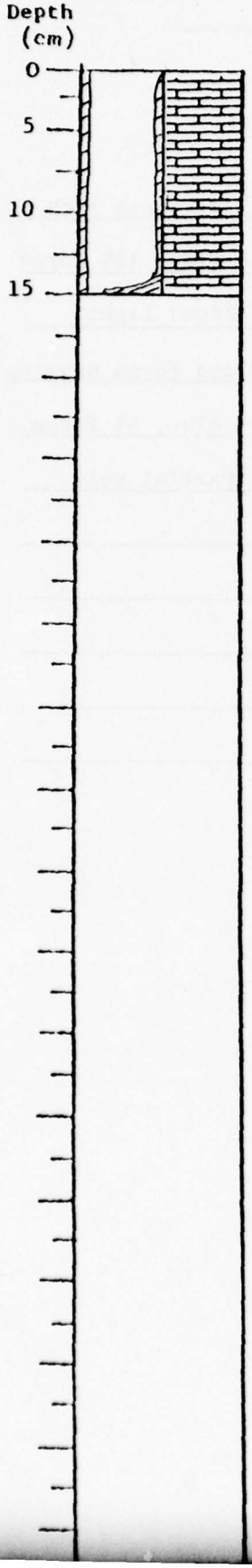
AGE: Pleistocene (N22)

Clay-nanno ooze

Gradational contact

Void area

GENERAL SUMMARY FORM



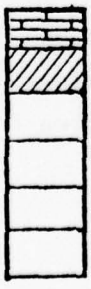
Core No. KK72 FFC41 Sta. 41

Location Lat. 24°28.86'S
Long. 111°52.73'W

GENERAL MEGASCOPIC DESCRIPTION

0-15cm: Yellowish brown (10 yr 5/4) rad bearing foram rich nanno ooze; 57% nanno, 10% foram, 2% nanno, 1% aniso min. 0-15cm: Partial void.

AGE: Holocene (N23)

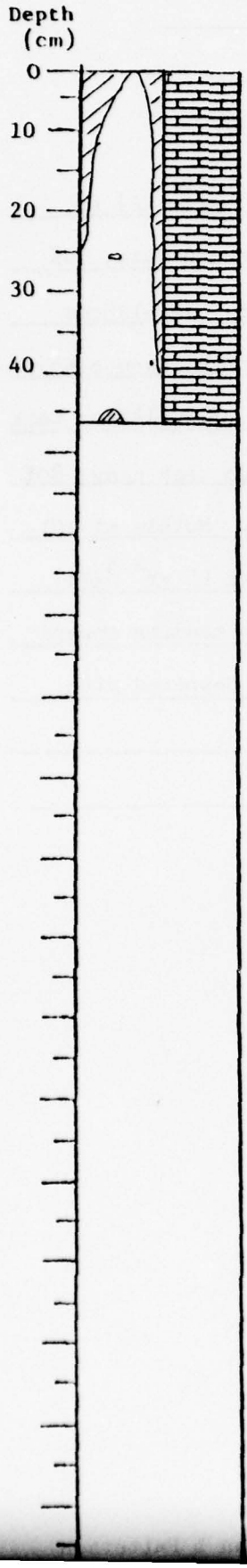


Nanno ooze

Void area

Logged by: Patterson

GENERAL SUMMARY FORM



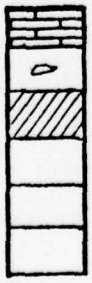
Core No. KK72 FFC43 Sta. 41
Lat. 24°28.29'S
Location Long. 111°57.13'W

GENERAL MEGASCOPIC DESCRIPTION

0-47cm: Light olive brown (2.5 $y^{5}/6$) rad and foram bearing clay rich nanno ooze; 68-70% nanno, 25% clay, 3-5% foram, 2% rad. Two very slight mottles, very pale brown (10 $yr^{7}/4$) and olive brown (2.5 $y^{4.5}/4$) at 26 and 38cm depth.

0-40cm: Partial void.

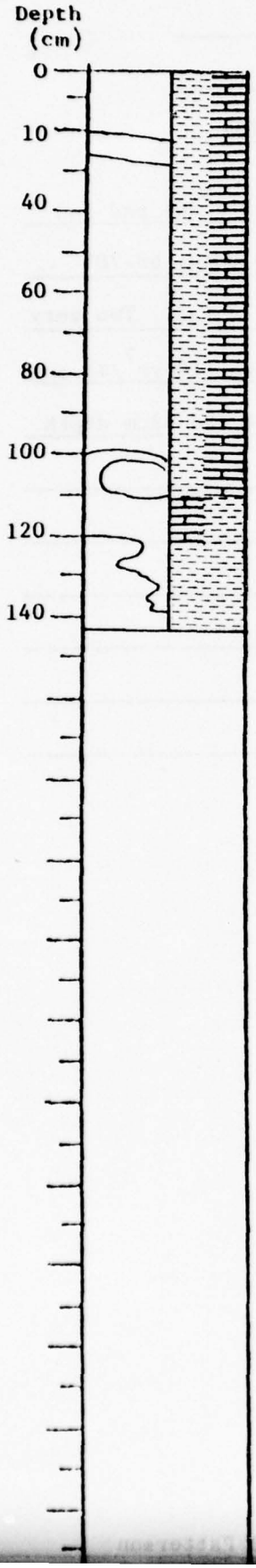
AGE: Holocene (N23)



Nanno ooze
Mottling
Void area

Logged by: Au and Patterson

GENERAL SUMMARY FORM



Core No. KK72 PC 28 Sta. 42
Lat. 23°38.85'S
Location Long. 116°13.05'W

GENERAL MEGASCOPIC DESCRIPTION

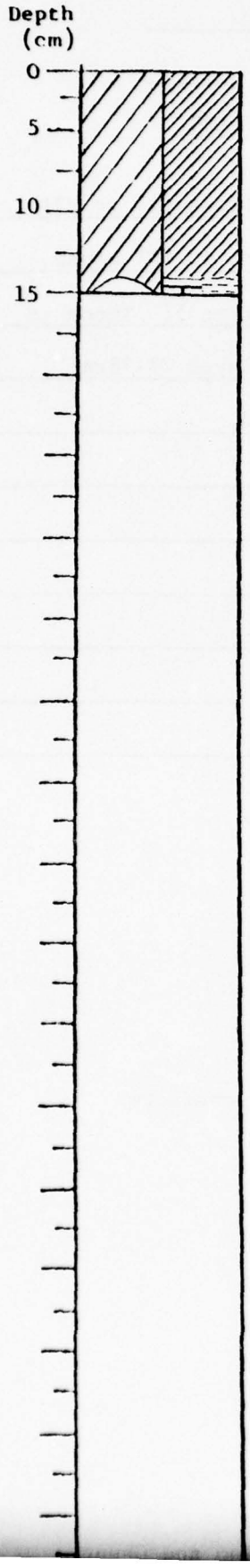
0-110cm: Dark reddish brown (5 $yr^{2.5}/2$) to (5 $yr^{3}/2$) foram bearing clay nanno ooze; 50% nanno, 45-47% clay, 3-5% foram. 110-120cm: Dusky red (10 $r^{3}/3$) foram bearing nanno clay; 65% clay, 33% nanno, 2% foram. 120-142cm: Dark reddish brown (5 $yr^{2.5}/2$) nanno rich clay; 80% clay, 15% nanno, 5% aniso min. Mottle at 101-109cm depth; dark reddish brown (5 $yr^{2.5}/2$). Red clay interval at 110-120cm tending toward coarser grain size - at times peppered with obsidian glass shards.

AGE: Quaternary

Clay-nanno ooze
Nanno-clay
Clay
Mottling
Sharp contact

Logged by: Foreman & Patterson

GENERAL SUMMARY FORM



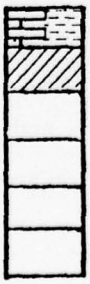
Core No. KK72 PCOD 29 Sta. 43

Location Lat. 23°30.56'S
Long. 115°59.02'W

GENERAL MEGASCOPIC DESCRIPTION

0-15cm: Dark brown (10 $yr^3/3$) nanno clay; 50% nanno, 50% clay.

AGE: Undetermined

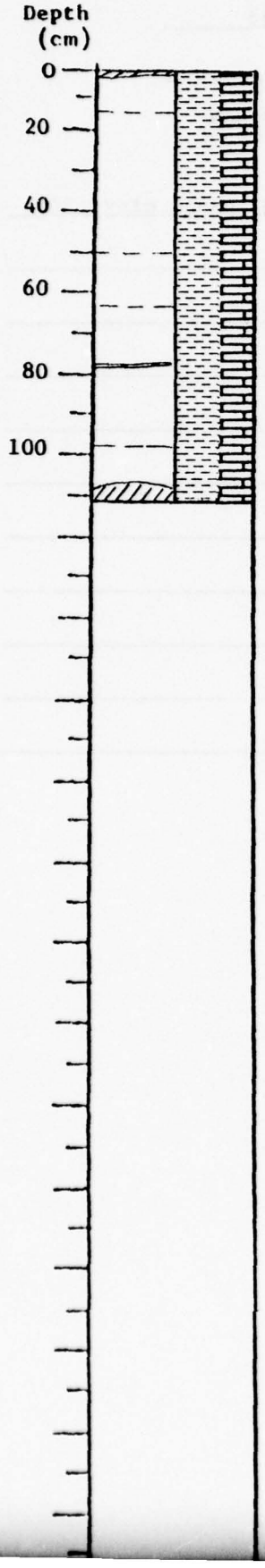


Nanno clay

Void areas

Logged by: Au

GENERAL SUMMARY FORM



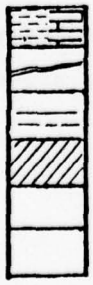
Core No. KK72 FFCS1 Sta. 44

Location Lat. 23°31.25'S
Long. 115°47.80'W

GENERAL MEGASCOPIC DESCRIPTION

0-111cm: Very dark grayish brown (10 $yr^{3}/2$) to (10 $yr^{3.5}/2$) clay nanno ooze; 49-50% nanno, 48-49% clay (foram and rad trace). There is no mottling. One parallel layer 77-78cm: (10 $yr^{3}/2$). 106-111cm: Void.

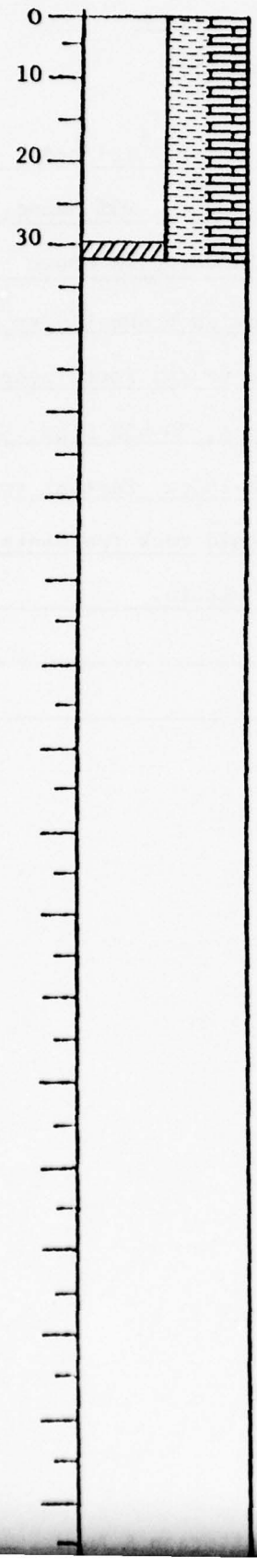
AGE: Quaternary



Clay-nanno ooze
Parallel layering
Sharp and gradational contacts
Void areas

Logged by: Ching and Chung

GENERAL SUMMARY FORM



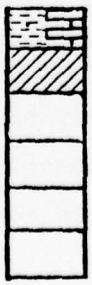
Core No. KK72 PCOD 30 Sta. 44
Lat. 23°32.02'S
Location Long. 115°26.47'W

GENERAL MEGASCOPIC DESCRIPTION

0-29cm: Dark brown (7.5 $yr^3/2$) foram bearing clay nanno ooze; 50% nanno, 45% clay, 5% foram.

29-32cm: Void.

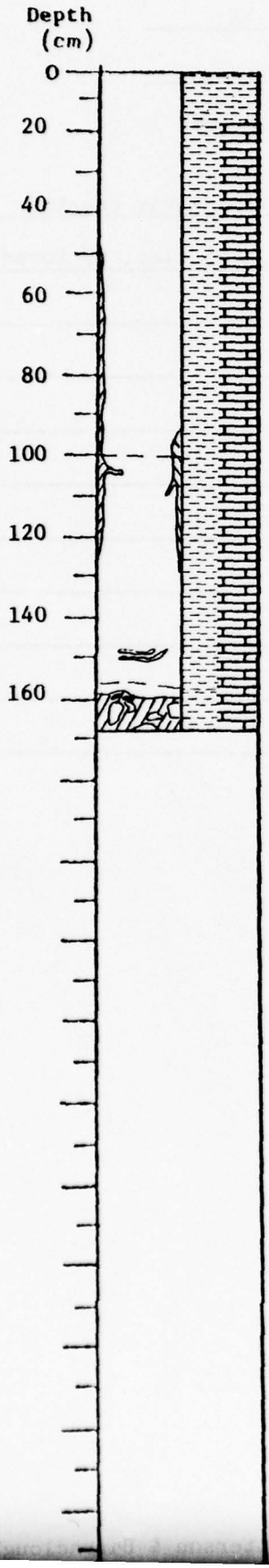
AGE: Quaternary



Clay-nanno ooze
Void areas

Logged by: Patterson & Barraclough

GENERAL SUMMARY FORM



Core No. KK72 PCOD 31 Sta. 45

Location Lat. 23°33.64'S
Long. 115°40.98'W

GENERAL MEGASCOPIC DESCRIPTION

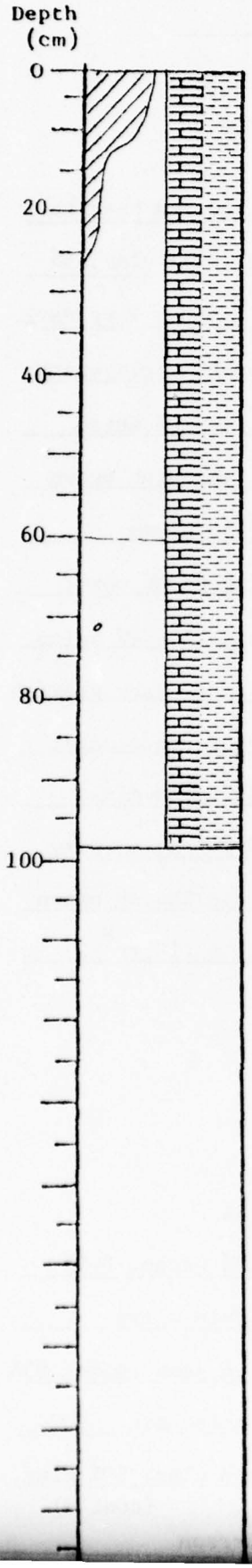
0-18cm: Dark reddish brown (5 $yr^{2.5}/2$) rad bearing nanno rich clay; 70% clay, 25% nanno, 2% rad, 3% aniso min. 18-168cm: Dark brown (10 $yr^{3}/3$) to very dark grayish brown (10 $yr^{3}/2$) to dark yellowish brown (10 $yr^{4}/4$) foram bearing clay nanno ooze; 50-63% nanno, 30-43% clay, 5-10% foram (rad trace). 158-160cm: Partial void with mud coated black volcanic rock fragments up to 4cm across contained within.

AGE: Quaternary

Clay
Clay-nanno ooze
Rock fragments
Gradational contact
Void areas

Logged by: Patterson & Au

GENERAL SUMMARY FORM



Core No. KK72 FFC58 Sta. 48
Location Lat. 23°31.09'S
Long. 115°58.71'W

GENERAL MEGASCOPIC DESCRIPTION

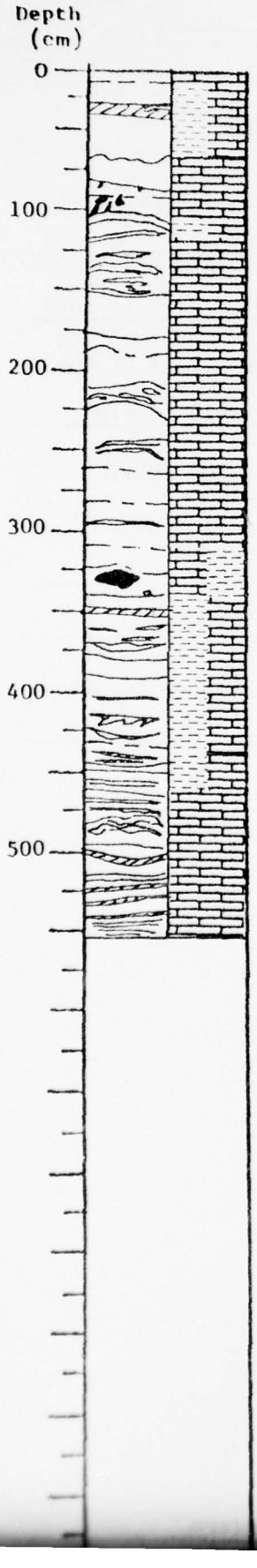
0-98cm: Very dark grayish brown (10 $yr^3/2$) to dark brown (10 $yr^3/3$) foram bearing nanno clay; 50% clay, 48% nanno, 2% foram. There is some very faint mottling in the lower half of the core with only one distinguishable mottle, (10 $yr^3/2$) at 72cm depth. 0-30cm: Partial void. 0-10cm: Sediment soupy and disturbed.

AGE: Quaternary

Nanno-clay
Mottling
Gradational contact
Void area

Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PCOD 32 Sta. 49
Location Lat. 07°38.57'S
Long. 161°35.11'W

GENERAL MEGASCOPIC DESCRIPTION

0-5cm: Brown (10 yr ^{4}/3) foram and rad bearing clay rich nanno ooze; 73% nanno, 17% clay, 5% rad, 2% foram, 3% aniso min. 5-65cm: Very dark grayish brown (10 yr ^{3}/2) rad bearing clay-nanno ooze; 45% nanno, 45% clay, 8% rad, 2% aniso min (foram trace). 65-102cm: Yellowish brown (10 yr ^{5}/4) to white (10 yr ^{8}/2) to brown (10 yr ^{4}/3) rad and foram bearing nanno ooze; 42-65% nanno, 5-8% foram, 5% rad, 25-42% aniso min (sanidinite?). 102-110cm: Very dark grayish brown (10 yr ^{3}/2) rad bearing clay nanno ooze; 44% nanno, 44% clay, 5% rad, 7% aniso min. 110-291cm: Yellowish brown (10 yr ^{5}/4) to very pale brown (10 yr ^{8}/3) to light yellowish brown (10 yr ^{6}/4) to (10 yr ^{8}/4) to white (10 yr ^{8}/2)

Nanno ooze
Clay-nanno ooze
Nanno clay
Mottling
Parallel layering
Rock fragments-Mn nodules

clay bearing nanno ooze; 93-100% nanno, 0-5% clay (rad trace). 291-302cm: Pale olive (5 y ^{6}/4) foram bearing clay rich nanno ooze; 65% nanno, 25% clay, 5% foram, 5% aniso min. 302-336cm: Pale olive (5 y ^{6}/3) nanno clay; 50% clay,

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 32 Sta. 49 (cont'd)

Location

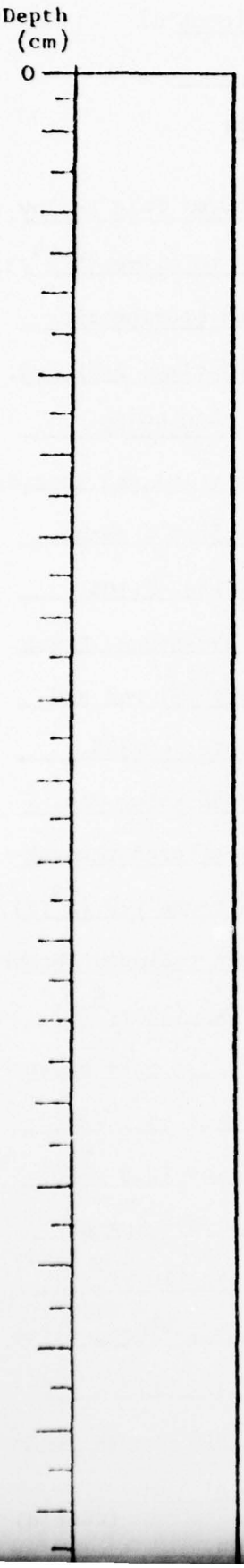
GENERAL MEGASCOPIC DESCRIPTION

45% nanno, 5% iso. min. 336-460cm: Pale yellow (5 $y^{7}/4$) to pale olive (5 $y^{6}/3$) to olive (5 $y^{4}/3$) to light olive gray (5 $y^{6}/2$) rad bearing clay nanno ooze; 55-77% nanno, 20-40% clay, 2-5% rad, 0-3% iso. min, 0-5% aniso min. 460-495cm: Olive (5 $y^{5}/3$) to olive gray (5 $y^{4}/2$) rad bearing foram and clay rich nanno ooze; 55-60% nanno, 20-25% clay, 10-15% foram, 0-5% rad, 2-10% aniso min (opaque min trace). 493-552cm: Light olive gray (5 $y^{6}/2$) to olive (5 $y^{5}/3$) rad and foram bearing clay rich nanno ooze; 60-70% nanno, 25-30% clay, 2-3% rad, 2-3% aniso min. Very slight to heavy mottling scattered throughout the core; very dark grayish brown (10 $yr^{3}/2$), very pale brown (10 $yr^{7}/4$), light yellowish brown (10 $yr^{6}/4$), yellowish brown (10 $yr^{5}/4$), white (10 $yr^{8}/1$), (10 $yr^{8}/3$), pale brown (10 $yr^{6}/3$), light olive gray (5 $y^{6}/2$), pale yellow (5 $y^{8}/3$), yellow (2.5 $y^{7}/8$), olive (5 $y^{5}/6$). Parallel layering at 102-110cm, very dark grayish brown (10 $yr^{3}/2$); 471-475cm, pale olive (5 $y^{6}/3$); 517-519cm, olive (5 $y^{5}/4$); 525-552cm, gray (5 $y^{5}/1$). Black rock fragment approx. 4cm diameter. White rock fragment approx. 1.5cm length found at 79cm.

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM



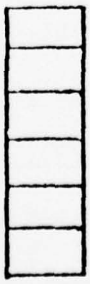
Core No. KK72 PCOD 32 Sta. 49 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

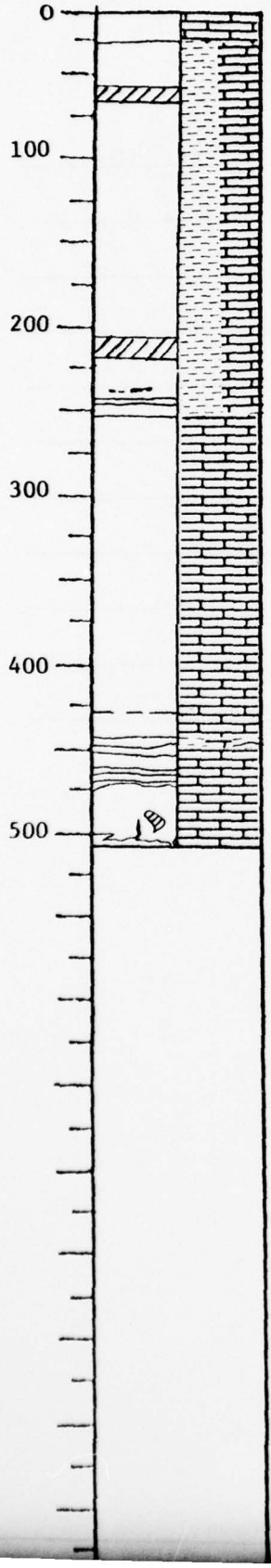
Yellow-green sandstone fragment found at 84-88cm. 6cm long Mn nodule found at 93-97cm. 6cm long light brown rock found at 99-105cm. 2.3cm red rock found at 97-99cm. Flattened black and brown rock with green sand grains found at 99-105cm. 1cm black rock fragment found at 155-168cm. Large chunk of sandstone, green with yellow-orange stain found at 323-328cm depth. 26-39cm: Partial void. 169-171cm, 348-350cm, 434-435cm: Void. Continuous microlayering of ($3\ y\ \frac{5}{1}$) from 525-552cm depth.

AGE: Pliocene (N19)



Logged by: Patterson

GENERAL SUMMARY FORM



Core No. KK72 PCOD 33 Sta. 50
Lat. 07°26.98'S
Location Long. 162°12.25'W

GENERAL MEGASCOPIC DESCRIPTION

0-27cm: Brown (10 $yr^{5}/3$) foram and rad bearing clay rich nanno ooze; 70% nanno, 15% clay, 7% rad, 5% foram, 3% aniso min. 27-253cm: Diatom and foram bearing rad rich clay-nanno ooze; 40-55% nanno, 28-40% clay, 10-15% rad, 5% foram, 1-2% diatom (sponge trace), 2-3% aniso min. 253-430cm: Very pale yellow (10 $yr^{8}/3$) rad, clay and foram bearing nanno ooze; 80-90% nanno, 5-8% foram, 3-7% clay, 2-5% rad. 430-440cm: White (10 $yr^{8}/2$) foram bearing rad rich nanno ooze; 80% nanno, 15% rad, 5% foram. 440-505cm: Clay, foram, and rad bearing nanno ooze; 88% nanno, 5% rad, 5% foram. Very slight to moderately heavy mottling where indicated; brown (10 $yr^{5}/3$), white (10 $yr^{8}/1$), very dark grayish brown (10 $yr^{3}/2$). Parallel layering at 244-245cm; white (10 $yr^{8}/2$) rad and foram bearing nanno ooze; 440-446cm, very dark grayish brown (10 $yr^{3}/2$) clay, nanno, rad ooze; 446-458cm, brown (10 $yr^{4}/3$) foram and rad bearing clay

Nanno ooze
Clay-nanno ooze
Clay-nanno-rad ooze
Mottling
Parallel layering
Void areas

(cont'd)

Logged by: Patterson

GENERAL SUMMARY FORM

Depth (cm)

0

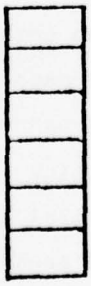
Core No. KK72 PCOD 33 Sta. 50 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

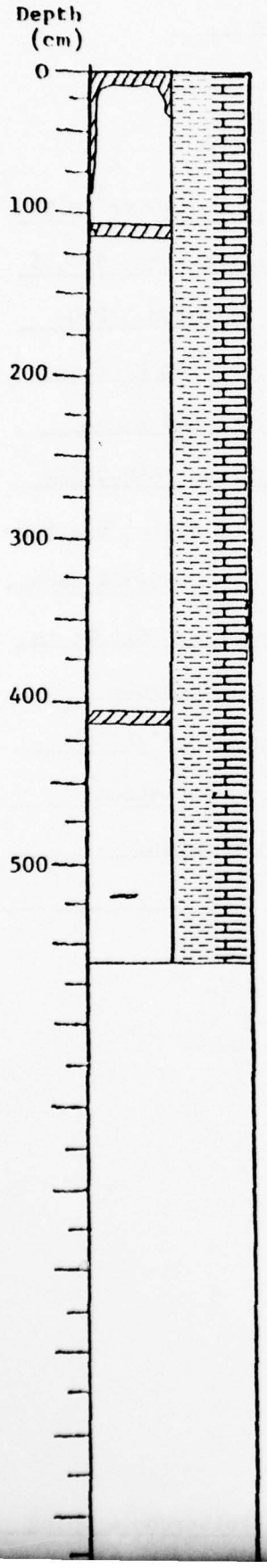
rich nanno ooze; 60-66cm, void; 495-500cm, partial void.

AGE: Lower Miocene



Logged by: Patterson

GENERAL SUMMARY FORM



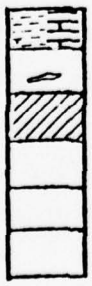
Core No. KK72 PCOD 34 Sta. 51

Location Lat. 05°37.26'S
Long. 167°28.50'W

GENERAL MEGASCOPIC DESCRIPTION

0-557cm: Brown (10 yr^{4}/3) foram bearing rad rich clay-nanno ooze; 40-58% nanno, 30-38% clay, 10-20% rad, 2% foram. Very slight mottle at 544cm depth; color brown (7.5 yr^{4}/4). Partial void at 0-84cm. Void at 104-109, 406-412cm depth.

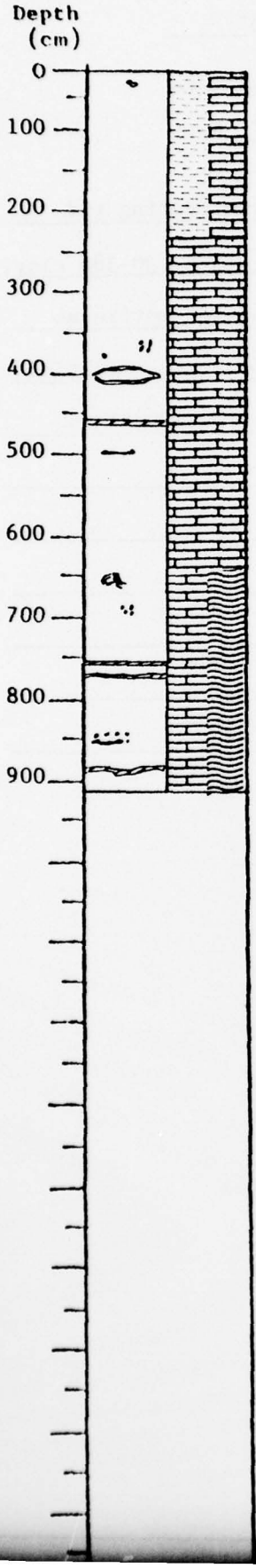
AGE: Quaternary(?)



Clay-nannofossil ooze
Mottling
Void areas

Logged by: Au

GENERAL SUMMARY FORM



Core No. KK72 PCOD 35 Sta. 52

Location Lat. 02°37.64'S
Long. 176°52.44'W

GENERAL MEGASCOPIC DESCRIPTION

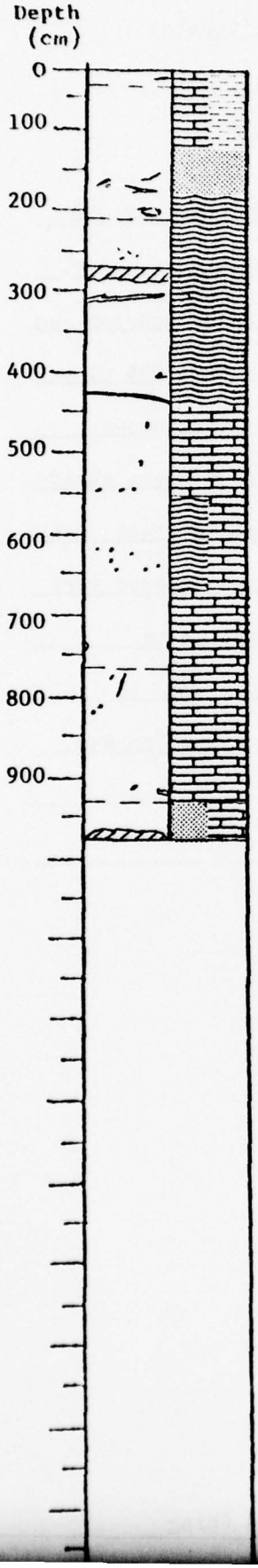
0-250cm: Dark brown (10 yr^3/3) to (10 yr^3/2.5) foram bearing rad rich clay-nanno ooze; 50-55% nanno, 30-35% clay, 13% rad, 2% foram. 250-650cm: Dark brown (10 yr^3/2.5) foram bearing rad and clay rich nanno ooze; 55-60% nanno, 20-25% clay, 13-20% rad, 2% foram. 650-906cm: Dark brown (10 yr^3/3) sponge and diatom bearing clay rich nanno-rad ooze; 50% rad, 25-30% nanno, 10% clay, 5-8% diatom, 3-7% sponge. Slight to moderate mottling where indicated; brown (10 yr^4/3) to very pale brown (10 yr^7/4) to light gray (10 yr^7/2). Void at 453-456cm, 755-758cm, 763-764cm, 881-884cm depth.

AGE: Lower Pliocene

Clay-nanno ooze
Nanno ooze
Nanno-rad ooze
Mottling
Void areas

Logged by: Au, Patterson & Ching

GENERAL SUMMARY FORM



Core No. KK72 PCOD 36 Sta. 53
Location Lat. 02°24.60'S
Long. 177°44.18'W

GENERAL MEGASCOPIC DESCRIPTION

0-124cm: Dark brown (10 $yr^3/3$) to very dark grayish brown (10 $yr^3/2$) rad bearing nanno clay; 45-50% clay, 45% nanno, 3-5% rad, 2-5% aniso min. 124-180cm: Very dark dusky red (2.5 $yr^2/1$) sponge and rad bearing nanno and clay rich glass shard ooze; 55-65% glass shards, 15% clay, 10-15% nannos, 7-10% rad, 3-5% sponge. 180-421cm: Very dark dusky red (2.5 $yr^2/1$) to dusky red (2.5 $yr^3/2$) to dark brown (7.5 $yr^3/2$) sponge and clay bearing nanno rich rad ooze; 70-80% rad, 10-15% nanno, 5-10% clay, 5% sponge. 421-525cm: Dark grayish brown (10 $yr^4/2$) sponge bearing rad and clay rich nanno ooze; 50-60% nanno, 20-25% clay, 17-22% rad, 3% sponge. 525-669cm: Dark brown (10 $yr^4/3$) sponge bearing clay

Nanno-clay
Glass shard ooze
Rad ooze
Nanno ooze
Rad-nanno ooze
Mottling

rich rad-nanno ooze; 45-55% nanno, 22-32% rad, 20% clay, 3% sponge. 770-810cm: Dark brown (10 $yr^4/3$) rad bearing clay and glass shard rich nanno ooze; 50% nanno, 25% glass, 20% clay, 5% rad. 669-770cm: Dark brown (10 $yr^4/3$) sponge

Logged by: Au and Ching (cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

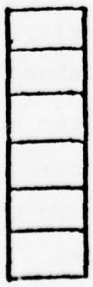
Core No. KK72 PCOD 36 Sta. 53 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

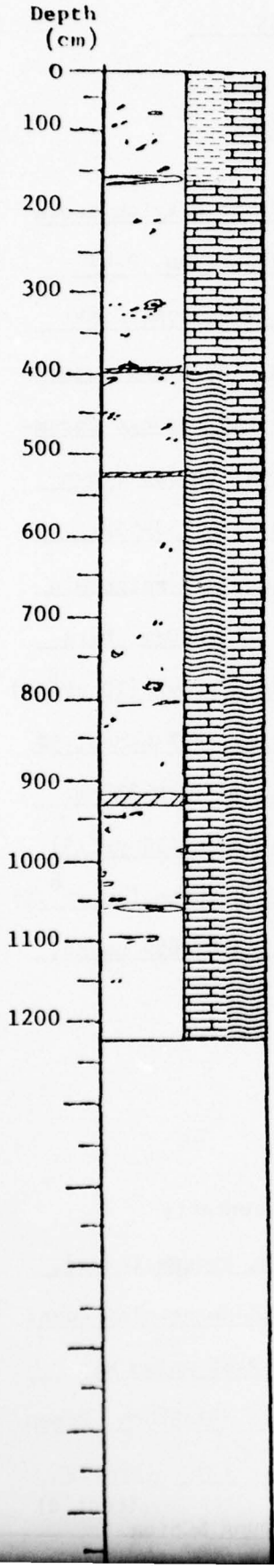
bearing rad and clay rich nanno ooze; 52-55% nanno, 25% clay, 17-20% rad, 3% sponge. 810-920cm: Dark brown (10 $yr^{3}/3$) sponge bearing rad and clay rich nanno ooze; 55% nanno, 25% clay, 17% rad, 3% sponge. 920-970cm: Dark brown (10 $yr^{3}/3$) to (10 $yr^{3}/2$) clay rich glass shard-nanno ooze; 40% nanno, 35% volcanic glass, 25% clay. Slight to heavy mottling scattered very sparsely throughout core; colors: white (10 $yr^{8}/2$); very pale brown (10 $yr^{7}/3$) to (10 $yr^{7}/4$), brown (10 $yr^{5}/3$). 273-282cm and 964-970cm: Void.

AGE: Lower Miocene



Logged by: Au and Ching

GENERAL SUMMARY FORM



Core No. KK72 PCOD 37 Sta. 54

Location Lat. 02°09.08'S
Long. 178°58.05'W

GENERAL MEGASCOPIC DESCRIPTION

0-165cm: Dark brown (7.5 $yr^{3}/2$) rad bearing clay-nanno ooze; 55% nanno, 40% clay, 5% rad. 165-383cm: Dark brown (10 $yr^{4}/3$) to (7.5 $yr^{3}/3$) foram-sponge-diatom-clay bearing rad rich nanno ooze; 60-65% nanno, 17-20% rad, 5-10% clay, 5% diatom, 3% sponge, 2-5% foram. 383-775cm: Dark brown (7.5 $yr^{3}/2$) sponge and diatom bearing clay rich rad-nanno ooze; 40-45% nanno, 35% rad, 10% clay, 5-9% diatom, 3-6% sponge. 775-928cm: Dark brown (7.5 $yr^{3}/2$) sponge and diatom bearing clay rich nanno-rad ooze; 40% rad, 35% nanno, 15% clay, 7-8% diatom, 2-3% sponge. 928-1225cm: Dark brown (7.5 $yr^{3}/2$) sponge-diatom-clay bearing nanno-rad ooze; 45-55% rad, 35% nanno, 8-10% clay, 7-9% diatom, 3% sponge. Very slight to moderate

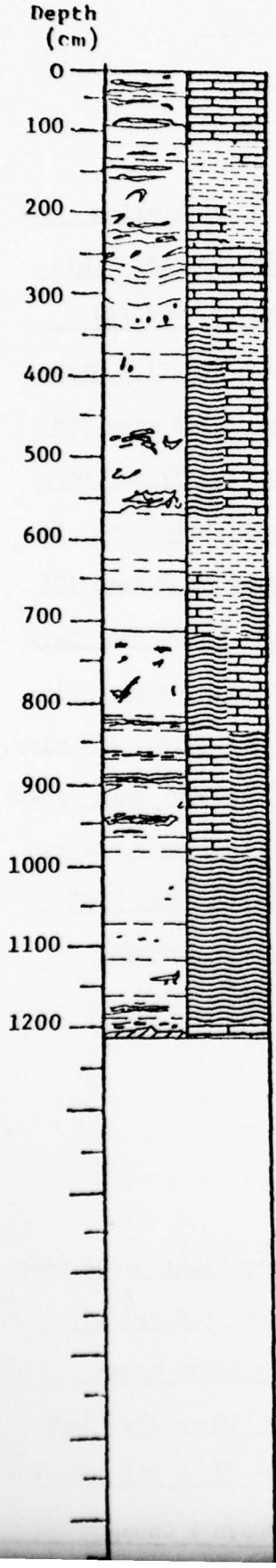
Clay-nanno ooze
Nanno ooze
Rad-nanno ooze
Nanno-rad ooze
Mottling
Void areas

mottling where indicated; colors light olive brown (2.5 $y^{5}/4$), light yellowish brown (10 $yr^{6}/4$), dark brown (10 $yr^{4}/3.5$), dark reddish brown (5 $yr^{2.5}/1.5$), very pale brown (10 $yr^{7}/4$), dark yellowish brown (10 $yr^{4}/4$). 383-387 & 921-928: Void.

AGE: Lower Miocene

Logged by: Au, Busch & Chung

GENERAL SUMMARY FORM



Core No. KK72 PCOD 38 Sta. 55

Location Lat. 05°23.50'N
Long. 164°24.50'W

GENERAL MEGASCOPIC DESCRIPTION

0-108cm: Light gray (10 yr ^{7}/2) to grayish brown (10 yr $^{4.5}$/2) nanno ooze; 93-97% nanno, 2-4% aniso min (clay-rad trace). 108-131cm: Light gray (10 yr $^{6.5}$/2) rad bearing clay-nanno ooze; 47-57% nanno, 35-40% clay, 5% rad (sponge-foram-diatom trace). 131-190cm: Dark grayish brown (10 yr ^{4}/2) rad and nanno rich clay; 50-55% clay, 21-22% nanno, 20-21% rad, 4-7% aniso min (diatom-sponge-foram trace). 190-240cm: Dark grayish brown (10 yr ^{4}/2) to dark brown (10 yr ^{3}/3) rad bearing nanno clay; 50% clay, 40% nanno, 5% rad, 5% aniso min (diatom trace). 240-335cm: Brownish yellow (10 yr ^{6}/6) to brown (10 yr ^{5}/3) to very pale brown (10 yr ^{7}/3) to white (10 yr ^{8}/1) rad and clay bearing nanno ooze; 87-88% nanno,

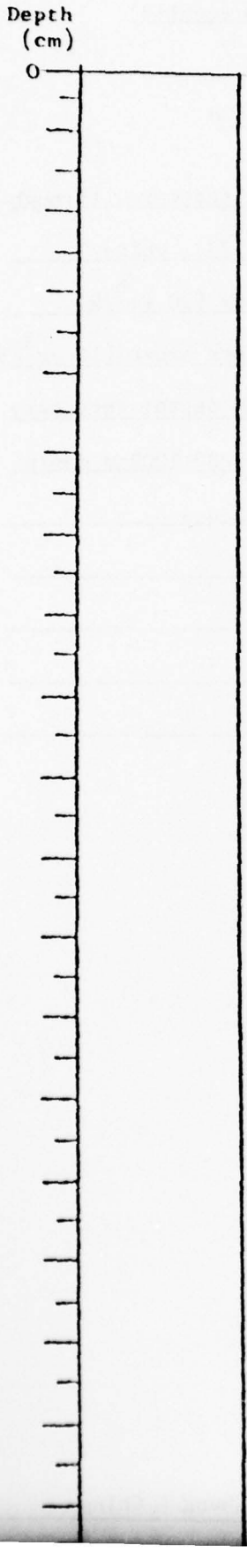
Nanno ooze
Clay
Rad ooze
Mottling
Parallel layering
Sharp and gradational contacts

5% clay, 5% rad (foram, diatom, sponge trace). 335-381cm: Brown (10 yr ^{4}/3) rad-nanno-clay ooze; 35% clay, 30% nanno, 28% rad, 2-6% aniso min (foram, sponge, diatom trace). 381-580cm: Brown (10 yr ^{4}/3) to pale brown (10 yr ^{6}/3) to grayish

(cont'd)

Logged by: Au, Chung &Ching

GENERAL SUMMARY FORM



Core No. KK72 PCOD 38 Sta. 55 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

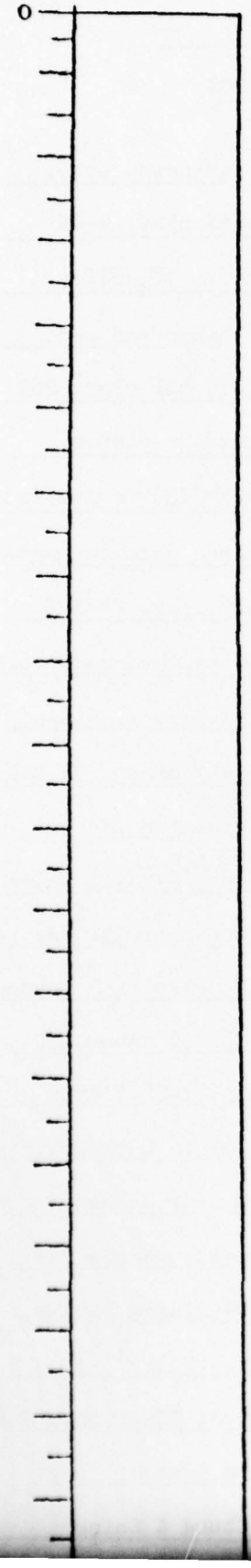
brown (10 $yr^{4.5}/2$) clay rich rad-nanno ooze; 37-42% nanno, 32-40% rad, 15-25% clay, 3-8% aniso min (diatom, foram trace). 580-632cm: Dark grayish brown (10 $yr^{4}/2$) nanno and rad rich clay (sponge-diatom trace); 40% clay, 26% rad, 26% nanno, 7% aniso min, trace diatom, sponge. 632-709cm: Brown (10 $yr^{5}/3$) to grayish brown (10 $yr^{4.5}/2$) nanno-clay-rad ooze (sponge-diatom trace); 32-34% rad, 30% clay, 28-30% nanno, 5-7% aniso min (diatom, sponge, rad trace). 709-820cm: Brown (10 $yr^{5.5}/2.5$) clay rich rad-nanno ooze (diatom trace); 40-43% nanno, 37-40% rad, 15% clay, 2-7% aniso min (diatom, foram trace). 820-986cm: Brown (10 $yr^{4.5}/3$) to white (10 $yr^{7.5}/3$) to dark grayish brown (10 $yr^{4}/2$) to grayish brown (10 $yr^{5}/2$) clay rich nanno-rad ooze; 40-45% rad, 35-40% nanno, 10-15% clay, 4-9% aniso min, 1-2% diatom (sponge trace). 986-1181cm: Dark grayish brown (10 $yr^{4}/2$) diatom bearing nanno and clay rich rad ooze (diatom trace); 44-65% rad, 20-35% clay, 15-20% nanno, 0-5% diatom (aniso min trace). 1181-1209cm: White (2.5 $y^{7.5}/2$) clay bearing rad rich nanno ooze; 70% nanno, 24% rad, 5% clay (aniso min, diatom trace). Very

(cont'd)

Logged by: Au, Chung & Ching

A-82
GENERAL SUMMARY FORM

Depth (cm)



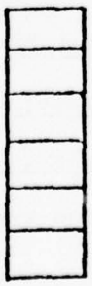
Core No. KK72 PCOD 38 Sta. 55 (cont'd)

Location _____

GENERAL MEGASCOPIC DESCRIPTION

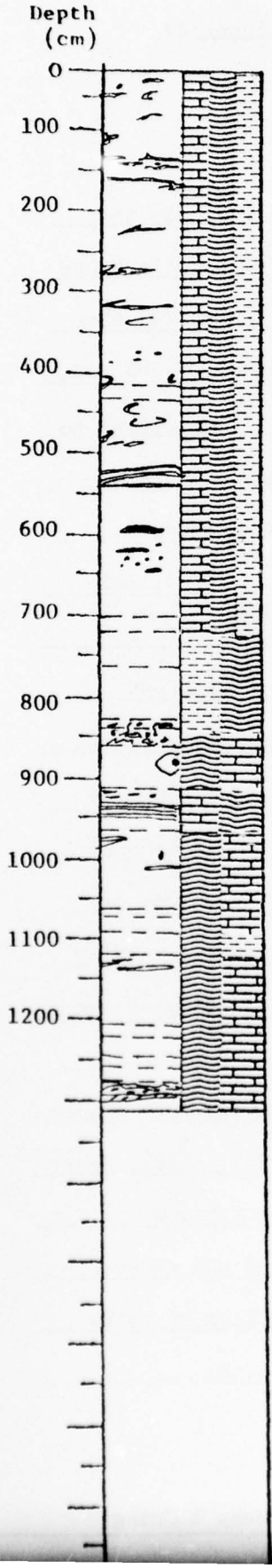
slight to very heavy mottling scattered throughout core; colors: brown (10 $yr^{5}/3$), white (10 $yr^{8}/1$), light brownish gray (10 $yr^{6}/2$), very pale brown (10 $yr^{7}/4$), dark brown (10 $yr^{3}/3$). Parallel layering at 886-888cm depth; very pale brown (10 $yr^{7.5}/3$). Void at 1202-1209cm depth.

AGE: Upper Miocene-Lower Pliocene



Logged by: Au, Chung & Ching

GENERAL SUMMARY FORM



Core No. KK72 PCOD 39 Sta. 56

Location Lat. 08°30.83'N
Long. 166°51.01'W

GENERAL MEGASCOPIC DESCRIPTION

0-720cm: Dark brown (7.5 yr $^{3.5}$/2) to dark grayish brown (10 yr ^{4}/2) to brown (10 yr ^{4}/3) to very dark brown (7.5 yr ^{2}/2) to dark brown (7.5 yr ^{3}/4) nanno-rad clay; 33-55% clay, 25-40% rad, 20-33% nanno (diatom, sponge, aniso min trace). 720-820cm: Dark brown (7.5 yr $^{3.5}$/2) to (7.5 yr ^{3}/4) nanno bearing clay-rad ooze; 48-50% rad, 40-45% clay, 5-10% nanno (aniso min, sponge trace). 820-911cm: Dark brown (7.5 yr ^{3}/2) to brown (7.5 yr ^{5}/3) clay rich rad-nanno ooze; 53-65% nanno, 25-35% rad, 10-15% clay (aniso min trace). 911-957cm: Brown (7.5 yr ^{4}/3) clay rich nanno-rad ooze; 45-50% rad, 35-40% nanno, 15% clay (aniso min trace). 957-1092cm: Grayish brown (10 yr $^{4.5}$/2) to brown (10 yr $^{4.5}$/3) to

Nanno-rad clay
Clay-rad ooze
Rad-nanno ooze
Mottling
Parallel layering
Rock fragments

(10 yr ^{4}/3) clay rich rad-nanno ooze; 40-65% nanno, 25-40% rad, 10-20% clay (aniso min, sponge trace). 1092-1116cm: Very dark grayish brown (10 yr ^{3}/2) rad clay; 50% clay, 50% rad (nanno, sponge trace). 1116-1315cm: Yellowish

(cont'd)

Logged by: Au, Chung & Ching

AD-A038 181 HAWAII INST OF GEOPHYSICS HONOLULU F/G 8/10
SEDIMENT CORE DESCRIPTIONS: R/V KANA KEOKI 1972 CRUISE, EASTERN--ETC(U)
JUN 76 J E ANDREWS, J A FOREMAN N00014-75-C-0209
UNCLASSIFIED HIG-76-13 NL

2 OF 2
AD
A038181

END

DATE
FILMED
5-77

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 39 Sta. 56 (cont'd)

Location

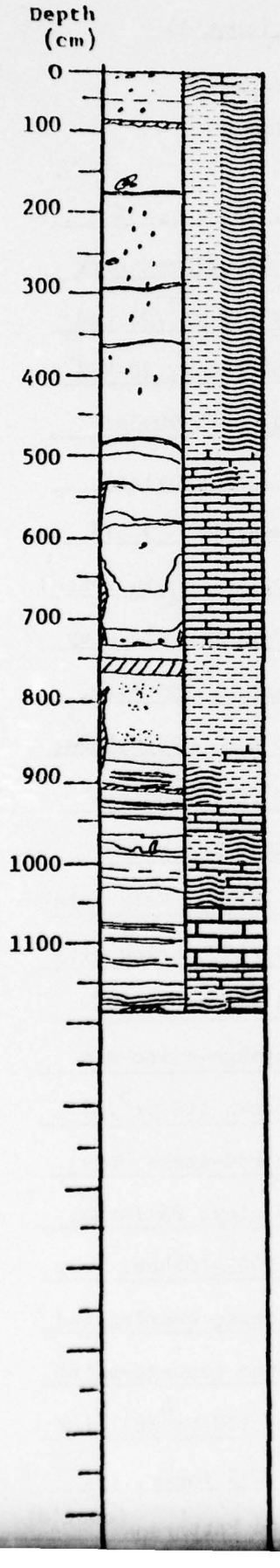
GENERAL MEGASCOPIC DESCRIPTION

brown (10 $yr^{5}/4$) to brown (7.5 $yr^{5.5}/5$) to light yellowish brown (10 $yr^{6}/4$) to pale brown (10 $yr^{6}/3$) to very pale brown (10 $yr^{7}/3$) clay rich rad-nanno ooze; 55-65% nanno, 25-30% rad, 10-15% clay (aniso min trace). Very slight to heavy mottling scattered throughout core as indicated; colors: light yellowish brown (10 $yr^{6}/4$); very pale brown (10 $yr^{8}/3$); pale brown (10 $yr^{6}/3$); white (10 $yr^{8}/2$); brown (7.5 $yr^{5}/3$); pink (7.5 $yr^{8}/4$); dark brown (7.5 $yr^{3}/2$) to (7.5 $yr^{3.5}/2$); brownish yellow (10 $yr^{6}/6$). Moderate mottle at 661-760cm of very pale brown (10 $yr^{7}/4$) clay bearing nanno-rad ooze; moderate mottle at 1106-1110cm of brownish yellow (10 $yr^{6}/6$) nanno-clay bearing rad ooze. Between 528-539cm there are three 1cm-thick layers of dark brown (10 $yr^{3}/2$). From 938-950cm, four 0.5cm-thick layers of brown (7.5 $yr^{3}/2$). Layer at 1139-1140cm, color dark brown (7.5 $yr^{3.5}/2$). Consolidated mud and rocks present from 618-640cm; composition of rocks is 50% nanno, 50% amorphous silica.

AGE: Lower Oligocene

Logged by: Au, Chung & Ching

GENERAL SUMMARY FORM



Core No. KK72 PCOD 40 Sta. 57

Location Lat. 08°27.88'N
Long. 170°07.50'W

GENERAL MEGASCOPIC DESCRIPTION

0-50cm: Very dark grayish brown (10 yr 3/2) rad-nanno-clay ooze; 45% clay, 30% nanno, 25% rad. 50-482cm: Dark brown (10 yr 3/3) nanno rich clay-rad ooze; 50-61% rad, 25-35% clay, 12-15% nanno (aniso min trace). 482-498cm: White (10 yr 8/1) rad and clay bearing nanno ooze; 83-88% nanno, 7-10% clay, 2-4% aniso min, 1-3% rad. 498-529cm: Dark brown (10 yr 3/3) nanno-rad clay; 37% clay, 36% rad, 27% nanno, 2% aniso min. 529-710cm: White (10 yr 8/2) and (10 yr 8/1) clay and rad bearing nanno ooze; 86-92% nanno, 3-6% clay, 3-4% aniso min, 1-4% rad. 710-723cm: Light yellowish brown (10 yr 6/4) clay rich nanno ooze; 80% nanno, 15% clay, 3% aniso min (rad-foram trace). 723-744cm: Dark

Nanno ooze
Clay
Rad ooze
Foram ooze
Parallel layering
Mottling

brown (10 yr 3/3) rad and nanno bearing clay; 89% clay, 5% nanno, 5% rad (aniso min trace). 744-770cm: Dark brown (10 yr 3/3) nanno bearing rad rich clay; 70% clay, 25% rad, 5% nanno (aniso min trace). 770-850cm: White (10 yr 8/1) clay

Logged by: Au and Patterson (cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 40 Sta. 57 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

bearing nanno ooze; 92% nanno, 4% clay, 3% aniso min (rad-foram trace). 850-873cm: Dark brown (10 $yr^{3}/3$) to light gray (10 $yr^{7}/2$) rad bearing clay-nanno ooze; 48-75% nanno, 20-47% clay, 1-4% aniso min, 1-3% rad. 873-909cm: Dark brown (10 $yr^{3}/3$) to very dark grayish brown (10 $yr^{3}/2$) nanno rich rad-clay; 49-51% clay, 38-40% rad, 10-11% nanno (aniso min trace). 909-959cm: White (10 $yr^{8}/0$) foram, rad and clay bearing nanno ooze; 80-89% nanno, 4-10% clay, 3-5% rad, 0-5% foram, 2% aniso min. 959-988cm: Very dark grayish brown (10 $yr^{3}/2$) nanno rich clay-rad ooze; 50% rad, 38% clay, 12% nanno (foram-aniso min trace). 988-1014cm: Very pale brown (10 $yr^{7}/3$) to (10 $yr^{8}/3$) rad bearing clay rich nanno ooze; 81-85% nanno, 10-12% clay, 3-6% rad (foram-sponge-aniso min trace). 1014-1023cm: Brown (10 $yr^{5}/3$) foram bearing clay rich rad-nanno ooze; 43% nanno, 38% rad, 15% clay, 2% foram, 2% aniso min (sponge trace). 1023-1044cm: Very dark grayish brown (10 $yr^{3}/2$) nanno bearing rad clay; 54% clay, 40% rad, 5% nanno (sponge-aniso min trace). 1044-1128cm: White (10 $yr^{8}/0$) clay bearing nanno rich foram ooze; 85% foram, 10%

Logged by: Au and Patterson (cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 40 Sta. 57 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

nanno, 3% clay, 2% aniso min (rad trace). 1128-1150cm: White (10 yr^{8}/2) foram and clay bearing rad rich nanno ooze; 66% nanno, 25% rad, 7% clay, 2% foram (aniso min trace). 1150-1169cm: Very dark grayish brown (10 yr^{3}/2) nanno bearing clay-rad ooze; 49% rad, 44% clay, 5% nanno, 2% aniso min. 1169-1188cm: Pale brown (10 yr^{6}/3) to dark brown (10 yr^{4}/3) clay rich rad-nanno ooze; 38-62% nanno, 25-38% rad, 12-13% clay, 1% aniso min. Very slight to heavy mottling scattered throughout core; yellow (10 yr^{7}/6); brown (10 yr^{4}/3); very dark brown (10 yr$^{2.5}$/2); black (10 yr$^{2.5}$/1); yellowish brown (10 yr^{5}/4); dark brown (10 yr^{3}/3); white (10 yr^{8}/2); brownish yellow (10 yr^{6}/6); pale brown (10 yr^{6}/3); very dark grayish brown (10 yr^{3}/2); very pale brown (10 yr^{7}/3). Mottle at 708cm of rad bearing clay-nanno ooze. Parallel layering at 174-177cm, 282-284 and 354-355cm depth; coarse grained, dark brown (10 yr$^{3.5}$/3); 482-484cm, brownish yellow (10 yr^{6}/6) rad bearing clay rich nanno ooze; 914-918cm, brown (10 yr^{4}/3) clay-rad-nanno ooze; 929-933cm, pale brown (10 yr^{6}/3); 1076-1086cm, white (10 yr^{8}/2) clay-rad bearing

(cont'd)

Logged by: Au and Patterson

GENERAL SUMMARY FORM

Depth (cm)

0

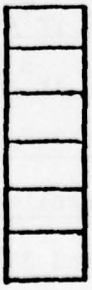
Core No. KK72 PCOD 40 Sta. 57 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

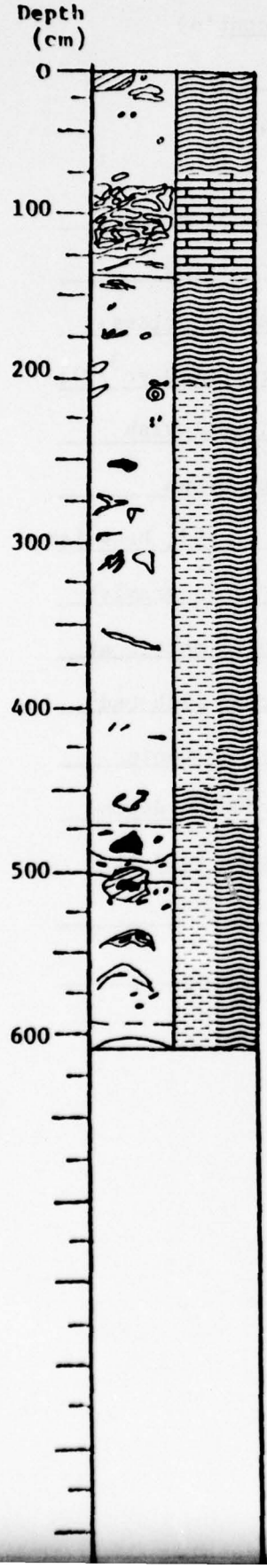
nanno ooze; 1091-1093cm (10 yr^{8}/2); 1097.5-1098cm (10 yr^{8}/2); 1130-1131cm (10 yr^{8}/0). Partial voids at 536-564, 665-723, 744-757, 773-850, 894-900cm.

AGE: Lower Miocene



Logged by: Au and Patterson

GENERAL SUMMARY FORM



Core No. KK72 PCOD 41 Sta. 58

Location Lat. 7°37.30'N
Long. 168°22.26'W

GENERAL MEGASCOPIC DESCRIPTION

0-70cm: Dark brown (10 $yr^{3}/3$) diatom bearing nanno and clay rich rad ooze; 61-75% rad, 10-20% clay, 10% nanno, 4-5% diatom, 0-7% aniso min. 70-134cm: Dark yellowish brown (10 $yr^{4}/4$) diatom bearing clay and rad rich nanno ooze; 56-60% nanno, 25% rad, 12-14% clay, 5-6% aniso min, 1-2% diatom. 134-200cm: Dark brown (10 $yr^{3}/3$) nanno bearing clay rich rad ooze; 74-77% rad, 12-15% clay, 2-8% nanno (diatom, sponge trace). 200-450cm: Dark brown (10 $yr^{3}/3$) diatom and nanno bearing clay-rad ooze; 54-62% rad, 30-40% clay, 2-5% nanno, 1-3% diatom (sponge-aniso min trace). 450-470cm: Dark yellowish brown (10 $yr^{4}/4$) rad clay; 59% clay, 39% rad (nanno-diatom-sponge-aniso min trace).

Rad ooze
Nanno ooze
Clay-rad ooze
Rad-clay
Mottling
Mn nodules-rock fragments

470-600cm: Very dark grayish brown (10 $yr^{3}/2$) to dark brown (10 $yr^{3}/3$) to very dark brown (10 $yr^{2.5}/2$) clay-rad ooze; 50-60% rad, 40-50% clay (nanno-aniso min trace). 600-606cm: Brownish yellow (10 $yr^{6}/6$) nanno bearing clay

Logged by: Au (cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 41 Sta. 58 (cont'd)

Location

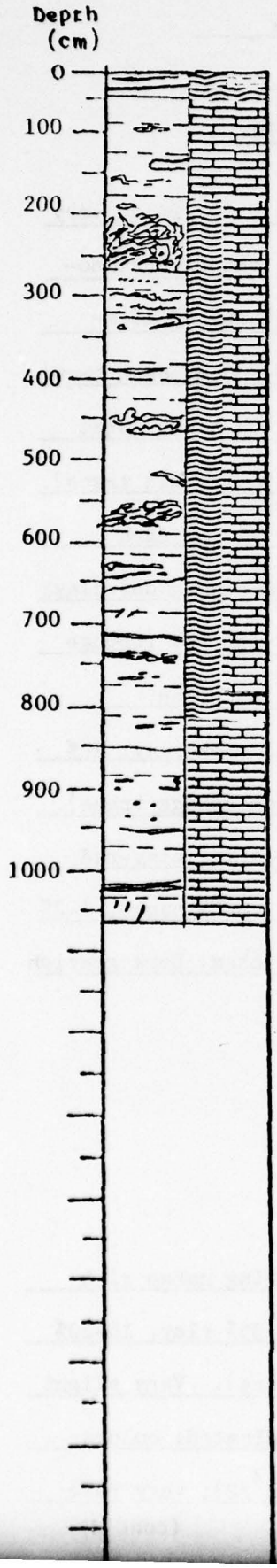
GENERAL MEGASCOPIC DESCRIPTION

rich rad ooze; 86% rad, 10% clay, 4% nanno. Very slight to heavy mottling scattered throughout the core where indicated; colors: olive yellow (2.5 $y^{6}/6$); dark brown (10 $yr^{3}/3$); dark yellowish brown (10 $yr^{4}/4$); yellowish brown (10 $yr^{5}/4$); light yellowish brown (10 $yr^{6}/4$); very pale brown (10 $yr^{7}/4$); brownish yellow (10 $yr^{6}/6$); yellow (10 $yr^{7}/6$); grayish brown (10 $yr^{5}/2$). Slight to medium mottle at 534-584cm of yellow (10 $yr^{7}/6$) clay rich rad ooze. Mn nodule at 254cm depth. Volcanic basalt fragments at 481-487 and 500 cm depth. Ash staining at 478-510cm. Partial void at 0-7 and 493-503cm depth.

AGE: Quaternary(?)

Logged by: Au

GENERAL SUMMARY FORM



Core No. KK72 PCOD 42 Sta. 59

Location Lat. 07°10.34'N
Long. 166°13.37'W

GENERAL MEGASCOPIC DESCRIPTION

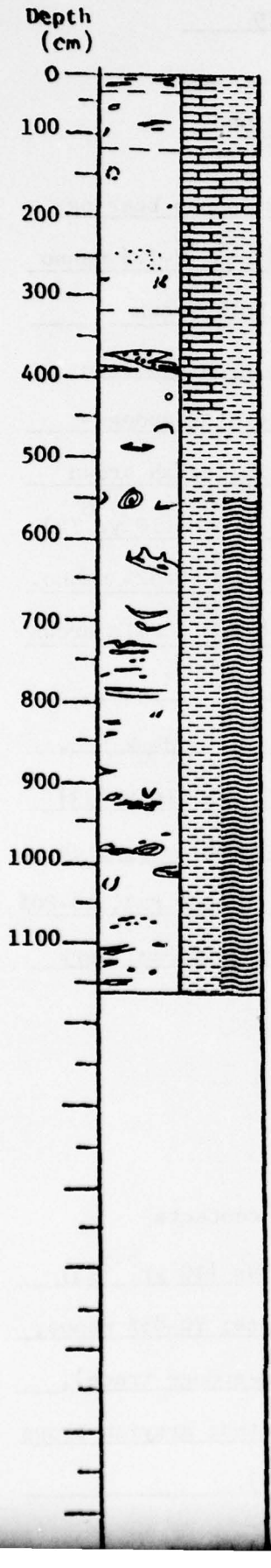
0-25cm: Dark brown (7.5 $yr^{3}/2$) nanno bearing rad clay; 48-52% clay, 39-47% rad, 2-10% nanno (aniso min trace). 25-43cm: Dark brown (10 $yr^{3}/3$) nanno bearing clay rich rad ooze; 84% rad, 10% clay, 6% nanno (diatom-sponge-aniso min trace). 43-180cm: Yellowish brown (10 $yr^{5}/4$) to light yellowish brown (10 $yr^{6}/4$) clay bearing rad rich nanno ooze; 75-82% nanno, 10-15% rad, 7-10% clay. 180-805cm: Pale brown (10 $yr^{6}/3$) to yellowish brown (10 $yr^{5}/4$) to brown (7.5 $yr^{4}/3$) to (7.5 $yr^{5}/3$) to dark brown (7.5 $yr^{3.5}/2.5$) to very pale brown (10 $yr^{7}/3$) to light yellowish brown (10 $yr^{6}/4$) clay rich rad-nanno ooze; 45-70% nanno, 20-40% rad, 10-20% clay (diatom-sponge trace). 805-1072cm: Very

Rad-clay
Rad ooze
Nanno ooze
Rad-nanno ooze
Parallel layering
Sharp and gradational contacts

pale brown (10 $yr^{7.5}/3$) to brown (10 $yr^{5.5}/3$) clay bearing rad rich nanno ooze; 70-85% nanno, 10-20% rad, 5-10% clay (diatom-sponge trace). Parallel layering where indicated; grayish brown (10 $yr^{5}/2$); brown (7.5 $yr^{5.5}/4$).

AGE: Upper Miocene

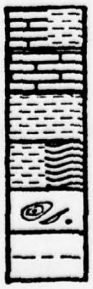
GENERAL SUMMARY FORM



Core No. KK72 PCOD 43 Sta. 60
Location Lat. 07°10.40'N
Long. 166°12.75'W

GENERAL MEGASCOPIC DESCRIPTION

0-110cm: Dark grayish brown (10 $yr^{4}/2$) to very dark grayish brown (10 $yr^{3}/2$) rad rich nanno-clay; 45% clay, 35% nanno, 19% rad (diatom-sponge-aniso min trace). 110-200cm: dark brown (10 $yr^{3}/3$) rad bearing clay rich nanno ooze; 65% nanno, 25% clay, 10% rad (aniso min trace). 200-450cm: Dark Brown (7.5 $yr^{3}/2$) to dark grayish brown (10 $yr^{3.5}/2$) rad rich nanno clay; 48-58% clay, 30-37% nanno, 12-15% rad (sponge trace). 450-550cm: Dark grayish brown (10 $yr^{3.5}/2$) nanno bearing rad rich clay; 70% clay, 25% rad, 5% nanno (diatom-sponge trace). 550-850cm: Diatom and nanno bearing clay-rad ooze; 54-60% rad, 30-35% clay, 6-8% nanno, 1-2% diatom (sponge trace). 850-1164cm: Dark grayish



Nanno-clay
Nanno ooze
Clay
Clay-rad ooze
Mottling
Gradational contact

brown (10 $yr^{3.5}/2$) diatom bearing nanno rich clay-rad ooze; 45-63% rad, 20-35% clay, 10-20% nanno, 0-2% diatom (sponge trace). Very slight to moderate mottling where indicated; colors: very dark grayish brown (10 $yr^{3}/2$); very pale

(cont'd)

Logged by: Au

GENERAL SUMMARY FORM

Depth (cm)

0

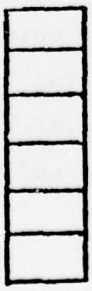
Core No. KK72 PCOD 43 Sta. 60 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

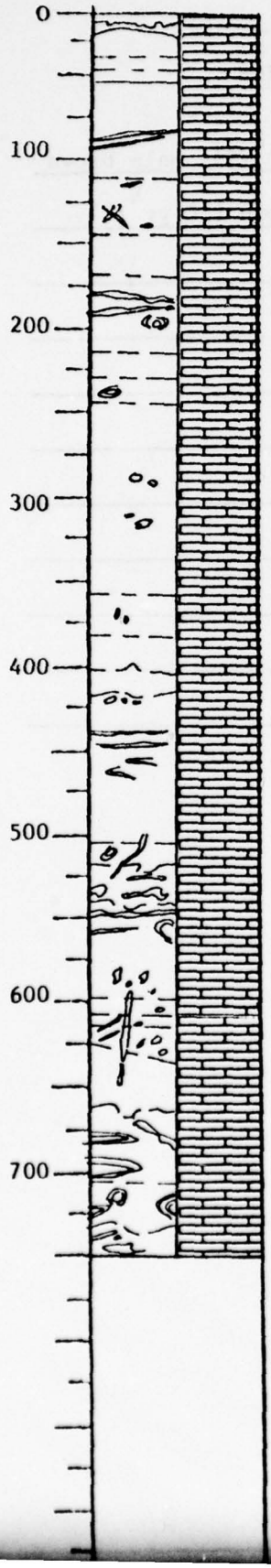
brown (10 yr 7/3); brown (10 yr 4/3); pale brown (10 yr 6/3); dark yellowish brown (10 yr 4/4).

AGE: Miocene



Logged by: Au

GENERAL SUMMARY FORM



Core No. KK72 PCOD 44 Sta. 61
Location Lat. 05°27.50'N
Long. 165°28.98'W

GENERAL MEGASCOPIC DESCRIPTION

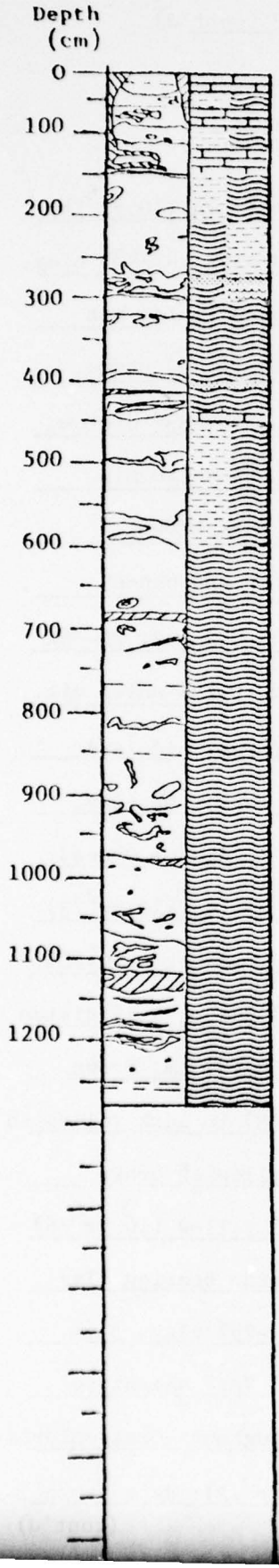
0-750cm: Very pale brown (10 yr ^{7}/3) to (10 yr ^{8}/3) to brown (10 yr ^{5}/3) to white (10 yr ^{8}/1) to light gray (10 yr ^{7}/1) to yellowish brown (10 yr ^{5}/4) to light yellowish brown (10 yr ^{6}/4) clay and rad bearing nanno ooze; 81-97% nanno, 1-10% rad, 2-8% clay (aniso min trace). Slight to heavy mottling scattered throughout core as indicated; colors: pale brown (10 yr ^{6}/3); very pale brown (10 yr ^{7}/3); yellowish brown (10 yr ^{5}/4); very dark gray (10 yr ^{3}/1); light gray (10 yr ^{7}/1); white (10 yr ^{8}/1). Parallel layer at 78-80cm depth; light gray (10 yr ^{7}/1).

AGE: Lower Miocene

Nanno ooze
Mottling
Parallel layering
Sharp and gradational contacts

Logged by: Au and Landmesser

GENERAL SUMMARY FORM



Core No. KK72 PCOD 45 Sta. 62

Location Lat. 03°16.08'N
Long. 164°33.26'W

GENERAL MEGASCOPIC DESCRIPTION

0-33cm: White (10 yr 8/2) to very pale brown (10 yr 8/3) diatom, foram, rad and clay bearing nanno ooze; 80-87% nanno, 6-10% clay, 5% rad, 1-3% foram, 0-2% diatom (aniso min trace). 33-56cm: Brown (10 yr 4/3) diatom bearing nanno rich clay-rad ooze; 44% rad, 40% clay, 12% nanno, 4% diatom (aniso min trace). 56-88cm: Very pale brown (10 yr 8/3) rad and clay bearing nanno ooze; 85% nanno, 8% clay, 6% rad (aniso min trace). 88-119cm: Brown (10 yr 4/3) diatom and nanno bearing clay-rad ooze; 57% rad, 35% clay, 6% nanno, 2% diatom. 119-134cm: White (10 yr 8/1) rad and foram bearing clay rich nanno ooze; 76% nanno, 10% clay, 5% foram, 5% rad, 4% aniso min. 134-140cm: White (10 yr 8/2)

Nanno ooze
Clay-rad ooze
Radiolarian-clay
Rad-diatom ooze
Rad ooze
Mottling

rad and clay bearing nanno ooze; 64% nanno, 28% aniso min, 5% clay, 3% rad (foram trace). 140-200cm: Brown (10 yr 4/3) diatom bearing nanno rich clay rad ooze; 38-48% rad, 27-30% clay, 20-25% nanno, 5% diatom (aniso min trace). 200-282cm:

(cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 45 Sta. 62 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

Brown (10 $yr^{4}/3$) to yellowish brown (10 $yr^{5}/4$) diatom bearing nanno rich rad clay; 42-48% clay, 36-41% rad, 10% nanno, 6% diatom (aniso min trace). 282-297cm: Brown (10 $yr^{4}/3$) nanno bearing clay rich rad-diatom ooze; 33% diatom, 26% rad, 25% clay, 10% nanno, 5% aniso min (sponge trace). 297-435cm: Dark brown (10 $yr^{3}/3$) to (10 $yr^{4}/3$) diatom and nanno bearing clay rich rad ooze; 43-55% rad, 20-36% clay, 4-7% nanno, 2-7% diatom, 0-25% aniso min. 435-450cm: White (10 $yr^{8}/2$) foram, rad, and clay bearing nanno ooze; 82% nanno, 5% clay, 5% rad, 4% foram, 4% aniso min (diatom trace). 450-600cm: Dark brown (10 $yr^{4}/3$) to (10 $yr^{3}/3$) diatom and nanno bearing clay-rad ooze; 59-66% rad, 25-30% clay, 2-7% nanno, 4-7% diatom (aniso min trace). 600-1273cm: Brown (10 $yr^{4}/3$) to (10 $yr^{5}/3$) to dark yellowish brown (10 $yr^{4}/4$) to yellowish brown (10 $yr^{5}/4$) to brownish yellow (10 $yr^{6}/6$) to pale yellow (2.5 $y^{7}/4$) diatom bearing clay rich rad ooze; 68-72% rad, 22-25% clay, 3-6% diatom (nanno-sponge trace). Very slight to heavy mottling scattered throughout core; colors: very dark grayish brown (10 $yr^{3}/2$); dark brown

(cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 45 Sta. 62 (cont'd)

Location

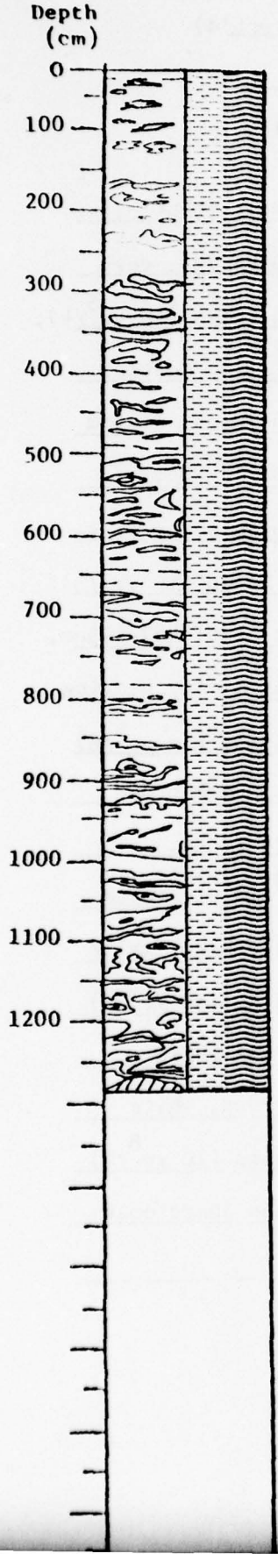
GENERAL MEGASCOPIC DESCRIPTION

(10 yr 3/3); olive brown (2.5 y 4/4); light olive brown (2.5 y 5/6); pale brown (10 yr 6/3); very pale brown (10 yr 7/3); yellowish brown (10 yr 5/4); yellow (10 yr 7/6); white (10 yr 8/1). Mottles at 7-13cm of yellowish brown (10 yr 5/4) diatom bearing clay rich rad-nanno ooze; 17-22cm, yellowish brown (10 yr 5/4) diatom bearing clay-nanno-rad ooze; 325-330cm, dark brown (10 yr 3/3) foram-rad and clay bearing nanno ooze; 487-495cm, pale yellow (2.5 y 8/4) nanno-diatom-clay bearing rad ooze; 593-599cm, brownish yellow (10 yr 6/6) clay-diatom rich rad ooze; 900cm, dark brown (10 yr 4/3) diatom-clay bearing rad ooze. Layers at 62-64cm, white (10 yr 8/1) rad-foram bearing clay rich nanno ooze; 146-147cm, white (10 yr 8/2); 278-282cm, white (10 yr 8/2) clay-rad-nanno bearing glass shard (sanidinite?) ooze; 325-332cm, white (10 yr 8/2); 396-398cm, white (10 yr 8/2) rad bearing clay rich glass shard ooze.

AGE: Pliocene

Logged by: Au

GENERAL SUMMARY FORM

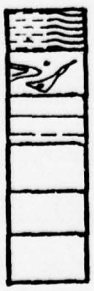


Core No. KK72 PCOD 46 Sta. 63

Location Lat. 02°26.92'N
Long. 164°12.87'W

GENERAL MEGASCOPIC DESCRIPTION

0-1280cm: Brown (10 $yr^{5}/3$) to (10 $yr^{4}/3$) to dark brown (10 $yr^{3}/3$) to dark yellowish brown (10 $yr^{4}/4$) to very pale brown (10 $yr^{7}/4$) to pale yellow (2.5 $y^{7}/3$) diatom and nanno bearing clay-rad ooze; 47-70% rad, 25-45% clay, 1-7% nanno, 1-5% diatom, 0-7% aniso min (sponge trace). Slight to moderate mottling in upper 120cm, heavy to moderate in rest of core, densely clustered; colors: very dark grayish brown (10 $yr^{3}/2$); dark brown (10 $yr^{3}/3$) and (10 $yr^{4}/3$); brown (10 $yr^{5}/3$); pale brown (10 $yr^{6}/3$); dark yellowish brown (10 $yr^{4}/4$); yellowish brown (10 $yr^{5}/4$) to (10 $yr^{5}/6$); light yellowish brown (10 $yr^{6}/4$); very pale brown (10 $yr^{7}/4$); pale yellow (2.5 $y^{7}/3$).



Clay-radiolarian ooze

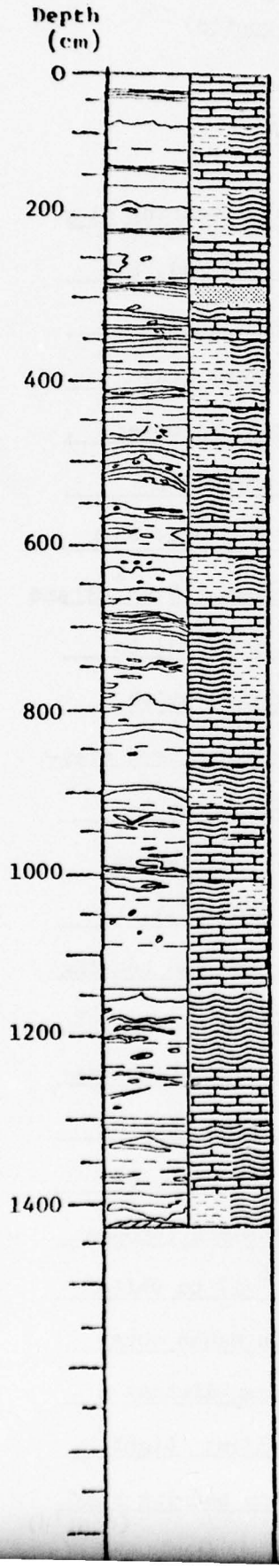
Mottling

Sharp and gradational contacts

AGE: Miocene

Logged by: Au and Landmesser

GENERAL SUMMARY FORM



Core No. KK72 PCOD 47 Sta. 64

Location Lat. 01°45.23'N
Long. 164°54.73'W

GENERAL MEGASCOPIC DESCRIPTION

0-81cm: Light gray (10 yr 7/2) and (10 yr 7/1) to very pale brown (10 yr 7/3) to dark brown (10 yr 4/3, 3/3) to white (10 yr 8/1) rad, clay and foram bearing nanno ooze; 86-88% nanno, 5-6% foram, 2-4% clay, 2-3% aniso min, 2% rad. 81-118cm: Dark brown (10 yr 3/3) diatom bearing clay-rad ooze; 55% rad, 40% clay, 4% diatom (nanno-sponge-aniso min trace). 118-170cm: Light gray (10 yr 7/2) to white (10 yr 8/1) rad and clay bearing nanno ooze; 87% nanno, 8% clay, 4% rad (foram-diatom-sponge-aniso min trace). 170-223cm: Dark brown (10 yr 3/3) diatom bearing nanno rich clay-rad ooze; 51% rad, 32% clay, 12% nanno, 5% diatom (sponge and aniso min trace). 223-306cm: Light gray (10 yr 7/2)

Nanno ooze
Clay-rad ooze
Nanno-rad ooze
Rad ooze
Ash
Parallel layering

(10 yr 7/1) to white (10 yr 8/1) (10 yr 8/2) to very pale brown (10 yr 7/3) to light yellowish brown (2.5 y 6/4) rad and clay bearing nanno ooze; 81-97% nanno, 1-10% clay, 1-4% rad, 1-5% aniso min (foram-diatom-sponge trace).

(cont'd)

Logged by: Au, Landmesser & Foreman

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

306-317cm: Brown (10 yr ^{4}/3) diatom bearing clay rich rad-nanno ooze; 40% nanno, 32% rad, 25% clay, 3% diatom (sponge-aniso min trace). 317-335cm: White (10 yr ^{8}/2) to light gray (10 yr ^{7}/1) rad and clay bearing nanno ooze; 90% nanno, 6% clay, 2% rad, 2% aniso min (foram-diatom-sponge trace). 335-380cm: Dark yellowish brown (10 yr ^{4}/4) to brown (10 yr ^{4}/3) and (10 yr ^{5}/3) to very pale brown (10 yr ^{7}/3) to dark brown (10 yr ^{3}/3) to very dark grayish brown (10 yr ^{3}/2) diatom bearing nanno rich clay-rad ooze; 46% rad, 36% clay, 15% nanno, 3% diatom (sponge-aniso min trace). 380-401cm: White (10 yr ^{8}/2) to pale brown (10 yr ^{6}/3) to very pale brown (10 yr ^{7}/3) clay and rad bearing nanno ooze; 85% nanno, 7% aniso min, 4% rad, 3% clay (diatom trace). 401-418cm: Brown (10 yr ^{4}/3) diatom-nanno bearing clay-rad ooze; 49% rad, 36% clay, 6% nanno, 6% diatom, 3% aniso min (sponge trace). 418-428cm: Gray (10 yr ^{6}/1) to white (10 yr ^{8}/1) rad bearing clay rich nanno ooze; 86% nanno, 12% clay, 2% rad (foram-diatom-sponge-aniso min trace). 428-433cm: Light yellowish brown (10 yr ^{6}/4) diatom bearing clay

(cont'd)

A-101

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

rich nanno-rad ooze; 49% rad, 35% nanno, 13% clay, 3% diatom, 3% aniso min (sponge-foram trace). 433-451cm: Brown (10 $yr^{4}/3$) diatom bearing clay-rad ooze; 51% rad, 44% clay, 4% diatom (foram-sponge-nanno trace). 451-470cm: Light gray (10 $yr^{7}/2$) rad and foram bearing clay rich nanno ooze; 69% nanno, 18% clay, 5% foram, 4% rad, 3% aniso min (diatom trace). 470-494cm: Light yellowish brown (10 $yr^{6}/4$) to brown (10 $yr^{4}/3$) nanno and diatom bearing clay-rad ooze; 45-51% rad, 41-45% clay, 3-5% diatom, 1-5% nanno, 0-4% aniso min (sponge trace). 494-515cm: White (10 $yr^{8}/2$) to light gray (10 $yr^{7}/1$)and (10 $yr^{7}/2$) rad bearing clay rich nanno ooze; 74% nanno, 15% clay, 7% rad, 3% aniso min (diatom-foram-sponge trace). 515-558cm: Dark brown (10 $yr^{3}/3$) rad clay 51% clay, 46% rad (nanno-diatom-sponge trace). 558-603cm: White (10 $yr^{8}/2$)and (10 $yr^{8}/1$) rad and clay bearing nanno ooze; 79-91% nanno, 4-10% clay, 3-10% rad (foram-diatom-sponge-aniso min trace). 603-655cm: Brown (10 $yr^{4}/3$) clay-rad ooze; 55% rad, 43% clay (nanno-diatom-sponge trace). 655-712cm: Light gray (10 $yr^{7}/1$) to white

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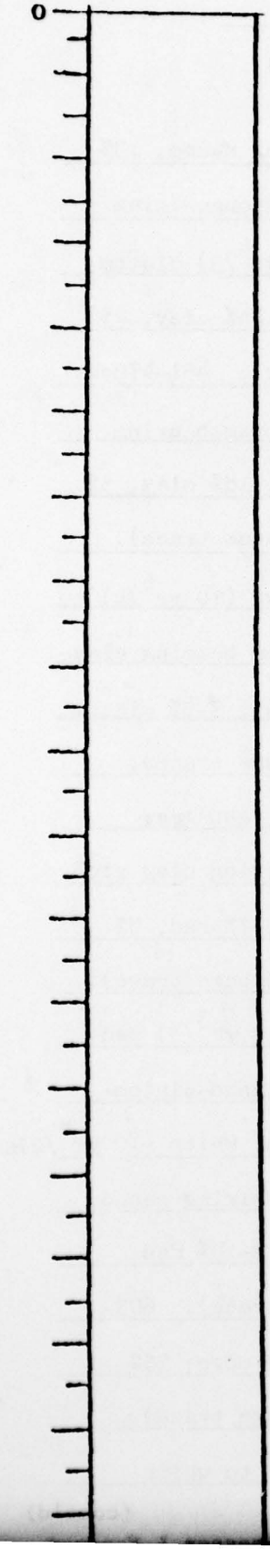
Logged by: Au, Landmesser & Foreman

GENERAL SUMMARY FORM

Depth (cm)



Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location _____

GENERAL MEGASCOPIC DESCRIPTION

(10 yr^{8}/1) rad and clay bearing nanno ooze; 91% nanno, 4% clay, 3% rad (foram-diatom-aniso min trace). 712-795cm: Yellowish brown (10 yr^{5}/4) to brown (10 yr^{4}/3) to very dark grayish brown (10 yr^{3}/2) diatom bearing rad clay; 48-51% clay, 47% rad, 1-4% diatom (nanno-sponge trace). 795-854cm: rad and clay bearing nanno ooze; 88-92% nanno, 3-7% clay, 3-5% rad (sponge-ash trace). 854-893cm: Very dark grayish brown (10 yr^{3}/2) clay rich nanno rich rad ooze; 62% rad, 25% nanno, 12% clay (diatom-aniso min trace). 893-914cm: Pale brown (10 yr^{6}/3) to dark grayish brown (10 yr^{4}/2) to yellowish brown (10 yr^{5}/4) to very dark grayish brown (10 yr^{3}/2) sponge, nanno and diatom bearing clay-rad ooze; 48-50% rad, 32-41% clay, 7-8% diatom, 3-8% nanno, 1-2% sponge (aniso min trace). 914-919cm: Gray (10 yr^{6}/1) clay and rad bearing nanno ooze; 90% nanno, 5% rad, 4% clay (aniso min trace). 919-951cm: Dark grayish brown (10 yr^{4}/2) diatom bearing clay rich rad-nanno ooze; 55% nanno, 28% rad, 12% clay, 2% diatom, 2% aniso min (sponge trace). 951-1000cm: Light gray (10 yr^{7}/2) to dark brown (10 yr^{3}/3) to light yellowish brown (10 yr^{6}/4)

(cont'd)

Logged by: Au, Landmesser & Foreman

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

diatom, rad and clay bearing nanno ooze; 87% nanno, 5% clay, 5% rad, 1-2% aniso min, 0-2% diatom (foram-sponge trace). 1000-1040cm: Very dark grayish brown (10 $yr^{3}/2$) nanno and diatom bearing rad clay; 48% clay, 41% rad, 6% diatom, 5% nanno (sponge-aniso min trace). 1040-1149cm: White (10 $yr^{8}/1$) to pale brown (10 $yr^{6}/3$) to light gray (10 $yr^{7}/1$) clay and rad bearing nanno ooze; 89-92% nanno, 5-6% rad, 2-4% clay (foram-diatom-sponge-aniso min trace). 1149-1243cm: Yellowish brown (10 $yr^{5.5}/4$) to brown (10 $yr^{4}/3$) to very dark grayish brown (10 $yr^{3}/2$) diatom bearing clay rich rad ooze; 81% rad, 15% clay, 3-4% diatom (nanno-sponge-aniso min trace). 1243-1308cm: White (10 $yr^{8}/2$) (10 $yr^{8}/1$) to light gray (10 $yr^{7}/2.5$) clay and rad bearing nanno ooze; 88% nanno, 7% rad, 5% clay (diatom-aniso min trace). 1308-1320cm: Brown (10 $yr^{5}/3$) nanno and clay bearing rad ooze; 88% rad, 7% clay, 5% nanno (foram-diatom-sponge-aniso min trace). 1320-1373cm: Brown (10 $yr^{4}/3$) to dark grayish brown (10 $yr^{4}/2$) diatom bearing clay rich nanno-rad ooze; 44% rad, 30% nanno, 24% clay, 2% diatom (sponge-aniso min trace).

(cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

1373-1385cm: Light gray (10 yr^{7}/2) diatom, clay and rad bearing nanno ooze; 81% nanno, 9% rad, 6% clay, 3% diatom (aniso min trace). 1385-1428cm: Dark brown (10 yr^{3}/3) diatom bearing nanno rich clay-rad ooze; 42-43% rad, 31-32% clay, 17-20% nanno, 5% diatom (sponge trace). Slight to heavy mottling scattered throughout core; colors: very dark grayish brown (10 yr^{3}/2); grayish brown (10 yr^{4}/2); light brownish gray (10 yr^{6}/2); light gray (10 yr^{7}/2) (10 yr^{6}/1); dark brown (10 yr^{3}/3); brown (10 yr^{4}/3); pale brown (10 yr^{6}/3); very pale brown (10 yr^{7}/3) dark yellowish brown (10 yr^{4}/4); yellowish brown (10 yr^{5}/4); light yellowish brown (10 yr^{6}/4); white (10 yr^{8}/1). Thin bedded, densely clustered layers common throughout upper 970cm; mostly gray to white nanno ooze. Parallel layering at 22-50cm, 1cm thickness, white (10 yr^{8}/1) to light gray (10 yr^{7}/1) carbonate ooze; 140-147cm, 1 to 2cm thickness, light gray (10 yr^{7}/1); 225-232cm, 1cm thickness, light gray (10 yr^{7}/1) to (10 yr^{7}/2); 284-298cm, 1cm thickness, light gray (10 yr^{7}/1) to white (10 yr^{8}/1) ash; 298-302cm, 1cm thickness, very pale brown (10 yr^{7}/3);

(cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

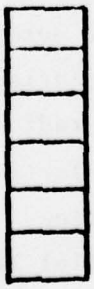
Core No. KK72 PCOD 47 Sta. 64 (cont'd)

Location

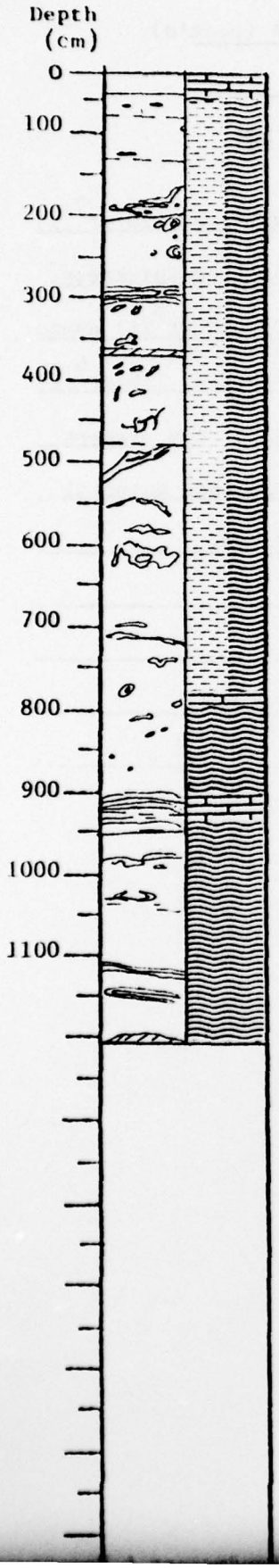
GENERAL MEGASCOPIC DESCRIPTION

415-421cm, 2mm thickness, light gray (10 yr ^{7}/1) to white (10 yr ^{8}/2); 609-710cm, 2cm thickness, light gray (10 yr ^{7}/1) to white (10 yr ^{8}/1) nanno ooze; 956-960cm, light brownish gray (10 yr ^{6}/2) to white (10 yr ^{8}/1) nanno chalk. Ash present in layers from 284-298cm and in base material from 795-806cm and from 812-818cm.

AGE: Quaternary



GENERAL SUMMARY FORM

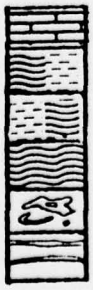


Core No. KK72 PCOD 48 Sta. 65

Location Lat. 04°13.71'N
Long. 165°49.84'W

GENERAL MEGASCOPIC DESCRIPTION

0-35cm: White (10 $yr^{8}/1$) rad and clay bearing nanno ooze; 95% nanno, 2% clay, 2% rad (foram-diatom-aniso min. trace). 35-45cm: Dark brown (10 $yr^{3}/3$) diatom and nanno bearing rad clay; 53% clay, 37% rad, 7% nanno, 3% diatom (sponge trace). 45-175cm: Dark brown (10 $yr^{3}/3$) (7.5 $yr^{3}/2$) to dark grayish brown (10 $yr^{3.5}/2$) diatom bearing nanno rich clay-rad ooze; 42-49% rad, 32-42% clay, 12-20% nanno, 1-5% diatom. 175-768cm: Dark grayish brown (10 $yr^{3.5}/2$) to dark brown (10 $yr^{4}/3$) (10 $yr^{3}/3$) (7.5 $yr^{3}/2$) to yellowish brown (10 $yr^{5}/4$) to dark yellowish brown (10 $yr^{4}/4$) to light olive brown (2.5 $y^{5}/4$) diatom and nanno bearing clay-rad ooze; 46-51% rad, 38-44% clay, 4-8% nanno,



Nanno ooze
Radiolarian-clay
Clay-radiolarian ooze
Radiolarian ooze
Mottling
Parallel layering

1-6% diatom (sponge trace). 768-788cm: Light gray (2.5 $y^{7}/2$) to white (5 $y^{8}/1$) clay and rad bearing nanno ooze; 87% nanno, 8% rad, 4% clay (aniso min-foram trace). 788-897cm: Brownish yellow (10 $yr^{6}/6$) to brown (10 $yr^{4}/3$) diatom

(cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 48 Sta. 65 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

bearing clay rich rad ooze; 77% rad, 15% clay, 6% diatom (nanno-sponge trace). 897-934cm: Light brownish gray (2.5 $y^{6}/2$) to light gray (2.5 $y^{7}/2$) (10 $yr^{7}/1$) to white (10 $yr^{8}/2$) diatom bearing rad and clay rich nanno ooze; 58-62% nanno, 25% clay, 10% rad, 1-5% diatom (sponge-aniso min trace). 934-1202cm: Pale yellow (2.5 $y^{7}/4$) to very pale brown (10 $yr^{7}/4$) to brown (10 $yr^{4}/3$) diatom and nanno bearing clay rich rad ooze; 62-64% rad, 25% clay, 5-7% nanno, 5% diatom (sponge trace). Slight to heavy mottling scattered throughout core where indicated; colors: black (10 $yr^{2.5}/1$); very dark grayish brown (10 $yr^{3}/2$); grayish brown (10 $yr^{5}/2$); dark brown (10 $yr^{3}/3$); brown (10 $yr^{4}/3$) (10 $yr^{5}/3$); pale brown (10 $yr^{6}/3$); very pale brown (10 $yr^{7}/3$) (10 $yr^{7}/4$) (10 $yr^{6.5}/4$); dark yellowish brown (10 $yr^{4}/4$); yellowish brown (10 $yr^{5}/4$) (10 $yr^{5}/5$); brownish yellow (10 $yr^{6}/6$); olive brown (2.5 $y^{4}/4$); light olive brown (2.5 $y^{5}/4$); olive yellow (2.5 $y^{6}/6$); yellow (2.5 $y^{8}/6$); pale yellow (2.5 $y^{7}/4$); light gray (2.5 $y^{7}/2$); white (5 $y^{8}/1$). Parallel layering at 924-928cm; color: gray (10 $yr^{6}/1$).

(cont'd)

Logged by: Au, Landmesser & Busch

GENERAL SUMMARY FORM

Depth (cm)

0

Core No. KK72 PCOD 48 Sta. 65 (cont'd)

Location

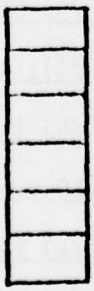
GENERAL MEGASCOPIC DESCRIPTION

320-333cm: Light olive brown (2.5 $y^{5}/4$).

1125-1135cm: Very pale brown (10 $yr^{7}/4$).

359-362cm, 1195-1202cm: Void.

AGE: Upper Miocene



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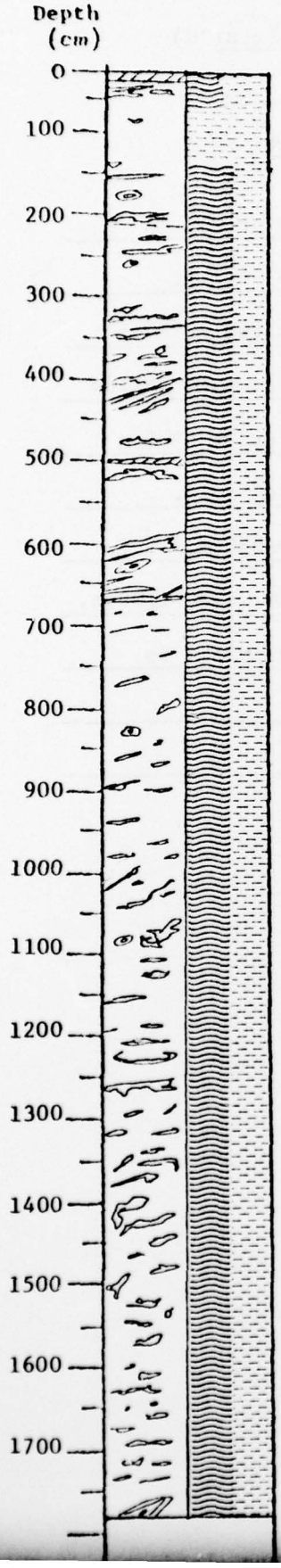
GENERAL SUMMARY FORM



Core No. KK72 PCOD 49 Sta. 65

Location Lat. 04°22.74'N
Long. 165°52.99'W

GENERAL MEGASCOPIC DESCRIPTION

0-60cm: Dark grayish brown (10 $yr^{4}/2$) diatom and nanno bearing radiolarian clay; 55-70% clay, 20-37% rad, 2-5% nanno, 0-3% diatom (sponge trace). 60-125cm: Dark grayish brown (10 $yr^{4}/2$) nanno and rad rich clay; 70-80% clay, 10-20% rad, 10% nanno. 125-209cm: Dark grayish brown (10 $yr^{4}/2$) diatom and nanno bearing rad clay; 50-54% clay, 36-42% rad, 1-10% nanno, 3% diatom (sponge trace). 209-1788cm: Very dark grayish brown (10 $yr^{3}/2$) to (10 $yr^{3.5}/2$) to dark brown (10 $yr^{3}/2.5$) (10 $yr^{3.5}/2.5$) (10 $yr^{4}/2.5$) (10 $yr^{3.5}/3$) (7.5 $yr^{3}/2$) to brown (10 $yr^{4.5}/2.5$) (10 $yr^{4}/3$) (10 $yr^{4.5}/3$) diatom bearing rad-clay; 50-73% clay, 25-47% rad, 1-5% diatom (nanno trace).

Radiolarian-clay
Clay
Rad ooze
Mottling
Void areas

Very slight to heavy mottles scattered rather sparsely throughout core; colors: very dark grayish brown (10 $yr^{3}/1.5$) to (10 $yr^{3}/2$); dark grayish brown (10 $yr^{4}/2$) to (10 $yr^{4}/2.5$); light gray (10 $yr^{7}/2$); brown (10 $yr^{4}/3$); pale brown

(cont'd)

GENERAL SUMMARY FORM

Depth (cm)

0

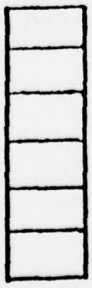
Core No. KK72 PCOD 49 Sta. 65 (cont'd)

Location

GENERAL MEGASCOPIC DESCRIPTION

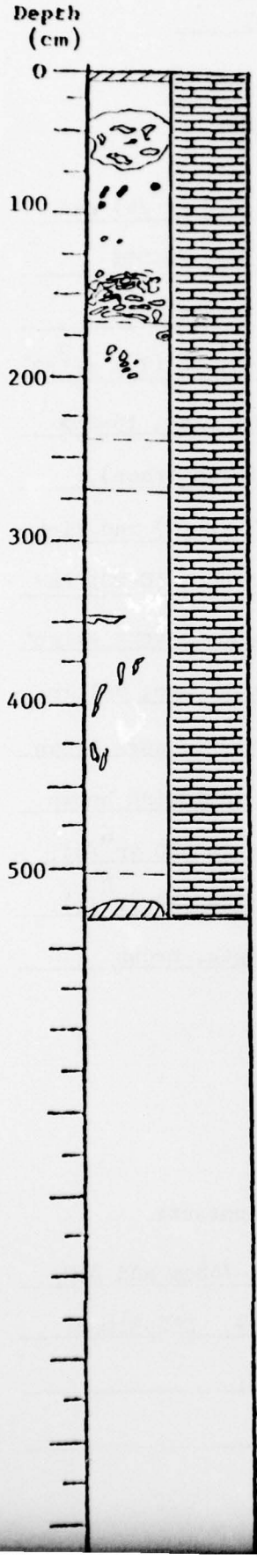
($10\ yr^{6}/3$); very pale brown ($10\ yr^{7}/3$) to ($10\ yr^{8}/3$) to ($10\ yr^{7}/4$) to ($10\ yr^{8}/4$); yellowish brown ($10\ yr^{4.5}/4$) to ($10\ yr^{5}/4$); light yellowish brown ($10\ yr^{6}/4$); pale yellow ($2.5\ y^{7}/4$). Moderate mottling at 343-346cm of pale brown ($10\ yr^{6}/3$) clay-rad ooze. Slight to heavy mottling at 800-830cm, 1127-1134cm, 1268-1273cm, 1578-1593cm, 1785-1788cm, of pale brown ($10\ yr^{7}/3$) to ($10\ yr^{7}/4$) to ($10\ yr^{8}/4$) clay rich rad ooze.

AGE: Miocene



Logged by: Au, Chung, Landmesser & Ching

GENERAL SUMMARY FORM



Core No. KK72 PCOD 50 Sta. 66

Location Lat. 04°42.25'N
Long. 165°37.37'W

GENERAL MEGASCOPIC DESCRIPTION

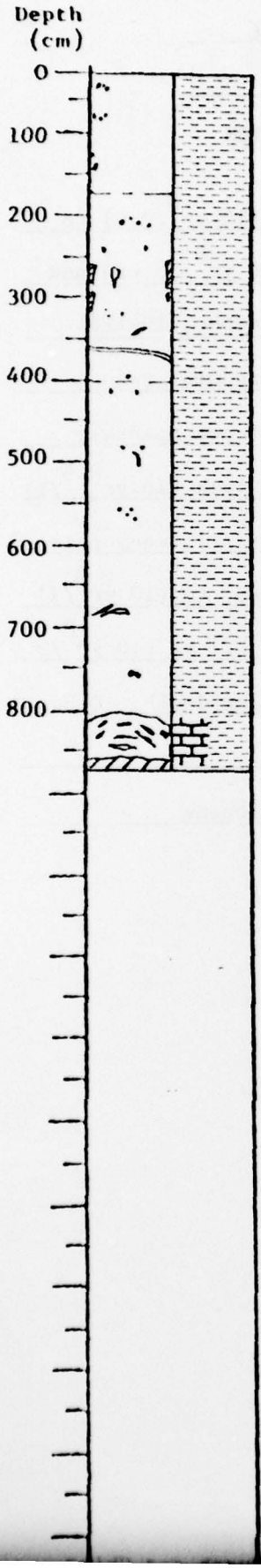
0-530cm: White (10 yr 8/2) to (10 yr 8/2.5) to very pale brown (10 yr 7/3) (10 yr 8/3) rad and clay rich nanno ooze; 74-78% nanno, 10-12% clay, 10-12% rads (diatom-aniso min. trace). Slight to heavy mottling scattered sparsely through most of core; colors: black (10 yr 2.5/1), very dark grayish brown (10 yr 4/2), very pale brown (10 yr 7/3) to (10 yr 7.5/3) to (10 yr 8/3) to white (10 yr 8/1) to (10 yr 8/2) to (10 yr 8/2.5). Four Mn nodules found at 86-92cm depth. 0-3cm, 78-79cm, 520-530cm: Void.

AGE: Upper Oligocene-Lower Miocene

Nanno ooze
Mottling
Mn nodules
Gradational contact
Void areas

Au, Busch and Ching

GENERAL SUMMARY FORM



Core No. KK72 PCOD 51 Sta. 67

Location Lat. 12°44.39'N
Long. 161°59.44'W

GENERAL MEGASCOPIC DESCRIPTION

0-179cm: Dark yellowish brown (10 yr^{4}/4) rad and nanno rich clay; 63-70% clay, 20-25% nanno, 10-12% rad (aniso min. trace).

179-810cm: Dark brown (10 yr^{3}/3) to (7.5 yr^{3}/2) rad and nanno rich clay; 70-75% clay, 15-20% nanno, 10-15% rad (aniso min-foram trace).

810-865cm: Yellowish brown (10 yr^{5}/4) rad rich nanno clay; 60% clay, 20-30% nanno, 10-20% rad (aniso min-foram trace). Slight to very slight mottling where indicated through core; colors: very dark grayish brown (10 yr^{3}/2); dark brown (10 yr^{3}/3); brown (10 yr^{5}/3); yellowish brown (10 yr^{5}/6); light yellowish brown (10 yr^{6}/4); reddish yellow (7.5 yr^{7}/6); white (10 yr^{8}/1). Parallel layer at 359-361cm depth, brown (10 yr^{4}/3). Mn nodules at 767-768cm and 819-822cm depth (1-2.5 cm diameter). 262-310cm: Partial void. 858-865cm: Void.

Clay
Nanno-clay
Mottling
Parallel layering
Mn nodules
Sharp and gradational contacts

AGE: Quaternary

Logged by: Au

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE

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5. TYPE OF REPORT & PERIOD COVERED:

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J. E. Andrews Jerome A. Foreman

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Marine geology
Sediment cores
Megascopic descriptions
Eastern Pacific Ocean
Western Pacific Ocean

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Megascopic descriptions are presented of deep-sea sediment cores obtained by the Hawaii Institute of Geophysics on cruises ~~of the R/V KANA KEOKI~~ in the eastern and western Pacific Ocean during 1972.

Location of ship tracks and coring stations are shown. Corrected satellite navigation-determined coordinates for each coring operation are indicated, and water depth, length of core, and age of oldest sediment in the cores are given.

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