ment Tape Layout		
Character Records		
cord 1, File Header		
Characters 1-3 Characters 4-9 Character 10 Characters 11-21	"003" 6 numeric "1" 11 alpha	Fixed-file type Date of file generation, (year, month, day) Fixed-record type (denotes file header) Vessel (left-justified)
Characters 22-27 Characters 28-44	6 alpha	Cruise number Cruise dates in form xx/xx/xx-xx/xx/xx (year, month, day)
Characters 45-63 Characters 64-109	19 alpha 46 alpha	Senior Scientist (left-justified) Investigator and institution responsible for data
cord 2, Station Header 1	8.	- 1985년 - 1985 - 1985년 - 1985
Characters 1-3 Characters 4-9 Character 10	"003" 6 numeric "2"	Fixed-file type Date of file generation (year, month, day) Record type (denotes station header)
Characters 11-13 Characters 14-18 Characters 19-25	"001" 5 alpha 6 num eri c	Sequence number of record type* Station number Latitude (degrees, minutes, seconds,
Characters 26-33	l alpha 7 numeric 1 alpha	hemisphere -N or S) Longitude (degrees, minutes, seconds, hemisphere -E or W)
Characters 34-36 Characters 37-44	3 numeric	Station time (GMT to nearest tenth of a hour) Sample date in form xx/xx/xx (year, month,
Characters 45-49 Character 50	5 numeric 1 numeric	<pre>day) Water depth (to nearest tenth of a meter) Gear: 1-Smith-McIntyre</pre>
		2-Shipek 3-gravity core 4-box core 5-Vibro core 6-Ewing core 7-Hydrostatically Dr op ped Gravity core
Characters 51-52	2 numeric	Aliquot method / Ol-top 2-3cm of a 35mm diam. core from benthic grab
		02-top cm scraped from surface of benthic grab 03-top 8-10cm scraped from Shipek grab
Character 53 Characters 54-55	l numeric 2 numeric	Number of replicated taken at this station Navigation Ol-Loran A
	,	02-Loran C 03-Radar and/or Fixes 04-Raydist (w/o complications) 05-Raydist (with errors, drifting, etc.) 06-Satellite 07-Omega
Character 56	l numeric	Grain Size Analysis Method 1-sieves 2-sieves and settling tubes

3-sieves	and aut	tomated	l rapid	sediment
analyz				
4*				4 .

4-sieves, automated rapid sediment
 analyzer and coulter counter
5-pipet

		5-pipet
Character 57	blank	**
Character 58	1 numeric	%Carbon Method
•		1-Dry Combustion; Conrad, Chesters and
	er.	Kenny (1970)
	•	2-Hydrogen peroxide oxidation
Character 59	l numeric	% Carbon Method
	·	1-Gerchikov and Hatcher (1972)
Character 60	l numeric	Number of bottom photographs taken
Characters 61-69	9 alpha	Sample color (according to the Munsell system)
Character 70	1 numeric	% Nitrogen method:
		l-Kjeldahl
Characters 71_109	Rlank	。

^{*} The last station header for each station is followed by a terminator record with characters 1-10 identical to the last station header, followed by 998 as characters 11-13, and with all other characters blank.

Record 3, Station Header 2

New Advances and the Control of the		
Characters 1-3	"003"	Fixed-file type
Characters 4-9	6 numeric	Date of file generation (year, month, day)
Character 10	"2"	Fixed-record type (denotes station header)
Characters 11-13	"002"	Fixed-sequence number of record type*
Characters 14-18	5 alpha	Station number
Characters 19-21	3 numeric	Barometric pressure (in tens, units, and
		tenths of millibars)
Characters 22-25	4 numeric	Dry-bulb Air temperature (°C to nearest tenth)
Characters 26-29	4 numeric	Wet-bulb Air temperature (°C to nearest tenth)
Characters 30-31	2 numeric	Wind direction (Code giving tens of degrees)
		according to WMO Code 0877)
Characters 32-33	2 numeric	Wind Speed (to nearest knot)
Characters 34-35	2 numeric	Sea direction (code giving tens of degrees
		according to WMO Code 0885)
Character 36	l numeric	Sea height (code giving height of waves
		according to WMO Code 1555)
Characters 37-38	2 numeric	Swell Direction (code giving tens of degrees,
		according to WMO Code 0885)
Character 39	l numeric	Swell height (code giving height of swell
	W	according to WMO Code 1555)
Character 40	l numeric	Weather (code giving weather according to
		WMO Code 4501)
Character 41	1 numeric	Cloud type (code giving cloud type according
,		to WMO Code 0500)
Character 42	l numeric	Cloud Cover (code giving percent of cloud
•		cover according to WMO Code 2700)
Character 43	l numeric	Visibility (code giving visibility according
		to WMO Code 4300)
Characters 44-47	4 numeric	Secchi Disk Depth (to mearest tenth of a
		meter)
Character 48	l numeric	Turbidity measurement technique

^{** %} carbonate method of MESA Formats not determined in this study

- 1-Turbidometer, in JTU
- 2-Transmissometer, in % light transmission
 over 10cm path
- 3-Flurometer, suspended solids calibration

Characters 49-109

Blank

* The last station header for each station is followed by a terminator record with characters 1-10 identical to the last station header, followed by 998 in characters 11-13, and with all other characters blank.

Record 4, Data Record-Part 1

Characters 1-3	1100311	Fixed-file type
Characters 4-9	6 numeric	Date of file generation (year, month, day)
Character 10	11311	Fixed-record type (denotes data record)
Characters 11-13	3 numeric	Sequence number of record type*
Characters 14-18	5 alpha	Station number
Characters 19-20	2 numeric	Replicate number
Character 21	,, T	Part number of data record
Characters 22-25	4 numeric	Mean grain size (Ø units, 2 decimals, i.e.
		xx.xx)
Characters 26-29	4 numeric	Median grain size (Ø units, 2 decimals)
Characters 30-33	4 numeric	Modal grain size (Ø units, 2 decimals)
Characters 34-37	4 numeric	Standard Deviation (Ø units, 2 decimals)
Characters 38-41	4 numeric	Skewness (Ø units, 2 decimals)
Characters 42-45	<u>4 numeric</u>	Kurtosis (Ø units, 2 decimals)
Characters 46-49	4 numeric	Sort, Parameter (2 decimals)
Characters 50-53	blank	**
Characters 54-57	4 numeric	% Carbon (2 decimals)
Characters 58-61	4 numeric	% Carbonhydrate (2 decimals)
Characters 62-55	4 numeric	$\% > -1\emptyset$, i.e. % Gravel (2 decimals Places)
Characters 66-69	4 numeric	% -10 to 40 , i.e. % sand (2 decimals)
Characters 70-73	4 numeric	$\% \angle 40$ i.e. % fines (2 decimals)
Characters 74-77	4 numeric	\emptyset Maxium, i.e. coarsest (2 decimals)
Characters 78- 81	4 numeric	<pre> Minimum, i.e. finest (2 decimals) </pre>
Characters 82-85	4 numeric	Ø Increment (2 decimals)
Characters 86-89	4 numeric	% ∅>Max. Ø (2 decimals)
Characters 80-93	4 numeric	% Ø <min. (2="" decimals)<="" td="" ø=""></min.>
Characters 94-97	4 numeric	$\%$ noto \emptyset_1 , where \emptyset .= \emptyset max, the coarsest (lowest
•		numerical)reported value (2 decimals)
Characters 98-101	4 numeric	$\%$ ₁ to \emptyset ₂ (2 decimals)
Characters 102-105	4 numeric	\mathscr{P}_2 to \mathscr{Q}_3 (2 decimals)
Characters 106-109	4 numeric	$\%$ 03 to \emptyset 4 (2 decimals)

* The last data record of each station is followed by a terminator record with characters 1-10 identical to the last data record followed by 998 as characters 11-13, and with all other characters blank. The last data record of the entire file is followed by a terminator record (last record of the file) with characters 1-10 identical to the last data record, followed by 999 as characters 11-13, and with all other characters blank.

** % carbonate of MESA Formats not determined in this study.

Record 5 - Data record part 2 (if necessary)

Characters 1-3	"003"	Fixed-file type
Characters 4-9 🦠	6 numeric	Date of file generation (year, month, day)
Character 10	113 IT	Fixed-record type (denotes data record)
Characters 11-13	3 numeric	Sequence number of record type*

```
Station number
Characters 14-18
                          5 alpha
                                        Replicate number
                          2 numeric
Characters 19-20
                                        Fixed-part number of data record
                          112 11
Character 21
                                        \%\emptyset_4 to \emptyset_5 (2 decimals)
Characters 22-25
                          4 numeric
                                        \%05 to 06 (2 decimals)
Characters 26-29
                          4 numeric
                                        \%06 to 07 (2 decimals)
                          4 numeric
Characters 30-33
                                        \%7 to \emptyset8 (2 decimals)
                         4 numeric
Characters 34-37
                                        \%08 to \%9 (2 decimals)
Characters 38-41
                          4 numeric
                                        \%09 to \emptyset10 (2 decimals)
                          4 numeric
Characters 42-45
                                        \%010to \emptyset11 (2 decimals)
Characters 46-49
                          4 numeric
                                        \%011to \emptyset12 (2 decimals)
Characters 50-53
                          4 numeric
                                        \%012to \emptyset13 (2 decimals)
Characters 54-57
                          4 numeric
                                        \%013to \emptyset14 (2 decimals)
                         4 numeric
Characters 58-61
                                        \%014to \emptyset15 (2 decimels)
                          4 numeric
Characters 62-65
                                        \%015to \emptyset16 (2 decimals)
Characters 66-69
                          4 numeric
                                        \%16to \emptyset17 (2 decimals)
                          4 numeric
Characters 70-73
                          4 numeric
                                         \%017to \%18 (2 decimals)
Characters 74-77
                                         %018to 019 (2 decimals)
                          4 numeric
Characters 78-81
                                         \%019to \emptyset20 (2 decimals)
                          4 numeric
Characters 82-85
                                         \%020to \emptyset21 (2 decimals)
Characters 86-89
                          4 numeric
                                         \%021to 022 (2 decimals)
Characters 90-93
                          4 numeric
                                         \%022to 023 (2 decimals)
                          4 numeric
Characters 94-97
                                         \%023to 024 (2 decimals)
                          4 numeric
Characters 98-101
                                         \%24to \emptyset25 (2 decimals)
Characters 102-105
                          4 numeric
                                         \%25to \emptyset26 (2 decimals)
                          4 numeric
Characters 106-109
```

NOTE - in continuation of \emptyset categories from \emptyset max to \emptyset min (e.g. -1 \emptyset to 4 \emptyset) in " \emptyset increment" renges, each in % of total sediment weight to 2 decimals, if \emptyset min is reached fill in rest of records with blanks.

The last data record of each station is followed by a terminator record with characters 1-10 identical to the last record, followed by 998 as characters 11-13, and with all other characters blank. The last data record of the entire file is followed by a terminator record (last record of the file) with characters 1-10 identical to the last data record, followed by 999 as characters 11-13, and with all other characters blank.

Record 6, data record, part 3 if necessary

Characters 1-3 Characters 4-9 Character 10 Characters 11-13 Characters 14-18 Characters 19-20 Character 21 Characters 22-25 Characters 26-29 Characters 30-33 Characters 34-37 Characters 38-41 Characters 42-45 Characters 42-45 Characters 50-53 Characters 54-57 Characters 54-57 Characters 62-65 Characters 62-65 Characters 66-69 Characters 70-73	"003" 6 numeric "3" 3 numeric 5 alpha 2 numeric "3" 4 numeric 6 numeric 6 numeric 6 numeric 7 numeric 8 numeric 9 numeric 9 numeric	Fixed-file type Date of file generation (year,month, day) Fixed-record type (denotes data record) Sequence number of record type* Station number Replicate number Part number of data record %26 to 27 (2 decimals) %27 to 28 (2 decimals) %28 to 29 (2 decimals) %29 to 30 (2 decimals) %29 to 31 (2 decimals) %31 to 32 (2 decimals) %31 to 33 (2 decimals) %33 to 34 (2 decimals) %34 to 35 (2 decimals) %35 to 36 (2 decimals) %36 to 37 (2 decimals) %37 to 38 (2 decimals) %37 to 38 (2 decimals) %38 to 39 (2 decimals)
--	---	--

Characters	74-77	4	numeric	 %Ø39	to	Ø40	(2	decimals)	
Characters	78-81	4	numeric	%Ø40	to	Ø41	(2	decimals)	
Characters	82-85	4	numeric					decimals)	
Characters	86-89	4	numeric	%Ø42	to	Ø43	(2	decimals)	j
Characters	90-93	4	numeric	%Ø43	to	Ø44	(2	decimals)	
Characters	94-97	4.	numeric	%Ø44	to	Ø45	(2	decimals)	1
Characters	98-101	4	numeric	%Ø45	to	Ø46	(2	decimals)	ij
Characters	102-105	4	numeric	%Ø46	to	Ø47	(2	decimals)	
Characters	106-109	4	numeric	%Ø47	to	Ø48	(2	decimals)	

NOTE - In continuation of \emptyset categories from \emptyset max to \emptyset min (e.g. -10 to 40) in "0 increment" ranges, each in % of total sediment weight to 2 decimal places if \emptyset min is reached fill in rest of record with blanks.

* The last data record of each station is followed by a terminator record with characters 1-10 identical to the last data record, followed by 998 as characters 11-13, and with all other characters blnak. The last data record of the entire file is followed by a termination record (last record of the file) with characters 1-10 identical to the last data record, followed by 999 as characters 11-13, and with all other characters blank.

Record 7, data record, part 4

Characters 1-3	1100311	Fixed-file type	
Characters 4-9	6 numeric	Date of file generation (year, month,	day)
Character 10	113 II	Fixed-record type	
Characters ll-13	3 numeric	Sequence number of record type*	
Characters 14-18	5 alpha	Station number	
Characters 19-20	2 numeric	Replicate number	
Character 21	114 TT	Fixed-part number of data record	
Characters 22-25	4 numeric	% Nitrogen (2 decimals)	
Characters 26-109	Blank	- ·	

* The last data record of each station is followed by a terminator record with characters 1-10 identical to the last data record, followed by 998 as characters 11-13, and with all other characters blank. The last data record of the entire file is followed by a terminator record (last record of the file) with characters 1-10 identical to the last data record, followed by 999 as characters 11-13, and with all other characters blank.