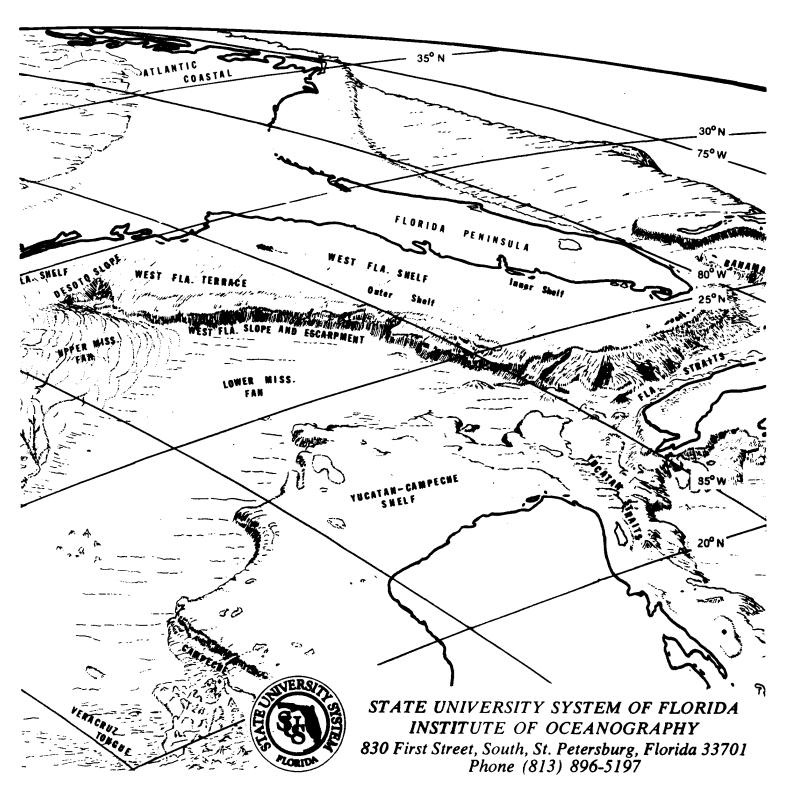
PRINCIPAL INVESTIGATORS FINAL REPORTS

BLM CONTRACT NO. 08550-CT5-30

VOLUME VI (XII)



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DATA MANAGEMENT AND STATISTICAL ANALYSIS GROUP -DMSAGENVIRONMENTAL BASELINE MONITORING OF THE MAFLA OCS

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INTRODUCTION

The Data Management and Statistical Analysis Group (DMSAG) is responsible for the creation and maintenance of the data base for the Environmental Baseline and Rig Monitoring Study of the MAFLA OCS (BIM Contract Number 08550-CT5-30). In addition DMSAG is responsible for preparation of various inventory reports, completion of miscellaneous management requests relative to the data base, performance of statistical analyses, and other miscellaneous analytical manipulations of the scientific data, as set forth in the work statement governing this contract.

During the time period May, 1975 to November, 1976, DMSAG personnel have been involved in fulfilling the objectives stated in the work statement of the contract. In section II of this report details are given as to what the final data base will look like, how to retrieve data from it, and how data was stored prior to being placed in final form.

Problems that we have encountered in fulfilling P.I. requests for data and statistical analyses will be discussed in section III. Further, the types of analyses that DMSAG have done will be detailed in that section. Section IV contains DMSAG's recommendations for improving the working relationship with the P.I.'s and the Program Manager. Further comments on how to improve the project as a whole will also be discussed. Section V, the appendices, contain all of the data formats developed and used by DMSAG in creating the data base and descriptions of each format. Appendix A will include the formats while Appendix B will contain the format descriptions.

SCIENTIFIC DATA BASE

During the past year DMSAG has created and maintained on magnetic tape a data base of scientific data that consists of data concerning the initial collection and transferral of samples for the respective P.I.'s and the data obtained from the analysis of those samples by these same P.I.'s. While the exact structure of the data base changed as time went on, it basically consisted of five sections. These five sections were as follows:

Dat	a Set Name	Contents
1.	MAFLA.WORK	All Unedited Data
2.	MAFLA.INV	All Inventory Data
3.	MAFLA.SCI	All Scientific Data
4.	MAFLA.TAX	All Taxonomic Abundance Data
5.	MAFLA.HC	All Hydrocarbon Data

All data, when first entered into the data base, was put into MAFLA.WORK until it was verified and corrected. It was then transferred to one of the other sections for final storage. The section containing the hydrocarbon data was created when we had difficulties with the data we received via magnetic tape. As these difficulties are cleared up, the data is transferred to MAFLA.SCI.

The final corrected data base will be contained on only one magnetic tape. It will be created using the following attributes: record format-fixed blocks, logical record length-80 bytes, block size-16,000 bytes, and labels. This one tape will be called MAFOl and will be initialized and constructed on an IBM 360 system. Further it will be a 9 track magnetic tape with 1600 BPI (bytes per inch).

The tape, MAFLO1, will contain all data supplied to us by the P.I.'s both in the Area Monitoring and Rig Monitoring phases of the program. Table 2.1 shows how the data will be organized when all data is received and verified. The column "number of records" deals with the number of 80 byte card images contained in each file. Thus, if any of the files were to be punched out onto a card deck each record would correspond to one card. We have never received any data from Dr. Hopkins dealing with the dredge/trawl program. However, all of his data for the Dive program has been received, placed in the data bank, and analyzed statistically.

The data appearing on this tape will be in two forms. All scientific and inventory data can be retrieved from the tape by using the enitre DMSAG file name. For example, to retrieve Dr. LaRock's data you tell the computer to accept only cards having MAFLO218 as the first eight characters. The second form that data appears in has no DMSAG file name on each record. Instead a keycard appears before and after each file to designate the file. These keycards take the DMSAG file name with the words BEGIN or END following the name. To retrieve Dr. Blake's abundance data you would tell the computer to accept all cards after MAFLO205ABEGIN and accept all cards before MAFLO205AEND. An asterisk has been placed in front of the DMSAG file name for all files needing to be accessed by this second method. Also to distinguish Area Monitoring and Rig Monitoring data we use the following codes: For Area Monitoring-MAFL and for Rig Monitoring-RIGM.

CONTENTS OF MAFLA SCIENTIFIC DATA BASE

TABLE 2.1

DMSAG File	FILE NAME	NUMBER OF RECORDS	RESPONSIBLE P.I.
MAFLO203N	Neuston Trace Metal Data	64	P. Betzer
MAFLO203R	Refractory Trace Metal Data	46	P. Betzer
MAFLO203W	Weak-Acid Soluble Trace Metal Data	1414	P. Betzer
MAFJ.0203Z	Zooplankton Trace Metal Data	46	P. Betzer
MAFLO204M	Macro-Invertebrate Trace Metal Data	227	S. Betzer
MAFLO204R	Replicated Trace Metal Data	75	S. Betzer
MAFLO204T	Invertebrate Taxonomic Trace Metal Data	221	S. Betzer
MAFLO205B	Macro-Invertebrate Biomass Data	316	N. Blake
MAFLO206B	Foraminifera Sample Density Data	270	W. Bock
MAFLO207L	Demersal Fish Meristics Data	820	S. Bortone
MAFLO209C	Calculated Data Analysis	3,071	J. Calder
MAFLO209H	Hydrocarbon Peak Data	14,457	J. Calder
MAFLO209R1	Hydrocarbon Ratios Card 1	449	J. Calder
MAFLO209R2	Hydrocarbon Ratios Card 2	449	J. Calder
MAFLO209S1	Hydrocarbon Summary Card 1	449	J. Calder
MAFLO209S2	Hydrocarbon Summary Card 2	449	J. Calder
MAFLO210A	Neuston Collection (Oceanographic) Data	92	S. Collard
MAFLO210B	Neuston Collection (Meteorological) Data	92	S. Collard
MAFLO210F	Fish Abundance Data	93	S. Collard
MAFIO210I	Invertebrate Abundance Data	284	S. Collard
MAFLO210L	Larvae Abundance Data	126	S. Collard
MAFLO210T	Neuston Totals and Volume/Weight Data	92	S. Collard

TABLE 2.1 continued

DMSAG FILE	FILE NAME	NUMBER OF RECORDS	RESPONSIBLE P.I.
MAFLO211A	Standard Sediment Parameter Data	542	L. Doyle
MAFLO211B	Box-Core Color Description Data	1,376	L. Doyle
MAFLO213Q	Dive-Station Quadrat Data	120	T. Hopkins
MAFLO214A	Surface Sediment Clay Mineralogy Data	83	W. Huang
MAFLO214B	Suspended Mineralogy Data	46	W. Huang
MAFLO215	Phytoplankton Primary Productivity Data	182	R. Iverson
MAFLO216	DOC, POC Data	45	G. Knauer
MAFLO217B	Macro-Invertebrate Biomass Data	379	H. Kritzler
MAFLO218	Sediment ATP Data	128	P. LaRock
MAFLO219A	Sediment Organic Carbon Data	45	J. & T. Lytle
MAFLO219B	Hydrocarbon Benthic Ratio Data	36	J. & T. Lytle
MAFLO219H	Hydrocarbon Peak Data	4,417	J. & T. Lytle
MAFLO219R	Sediment Organic Carbon Ratio Data	45	J. & T. Lytle
MAFLO219S	Summary of Gas Chromatography Data	66	J. & T. Lytle
MAFL0221	Transmissometry Data	1,087	F. Manheim
MAFIO222C	Zooplankton Collection Data	47	F. Maturo/ J. Caldwell
MAFL0223L	Demersal Fish Meristics Data	753	G. Mayer
MAFLO225H	Hydrocarbon Peak Data	9,132	P. Meyers
MAFLO225R1	Hydrocarbon Ratio Data Card 1	134	P. Meyers
MAFLO225R2	Hydrocarbon Ratio Data Card 2	134	P. Meyers
MAFLO225S	Summary of Gas Chromatography Data	265	P. Meyers
MAFLO225T	Taxonomic Hydrocarbon Data	185	P. Meyers
MAFLO227A	Sediment Trace Metal Data	63	B. Presley
MAFLO229L	Demersal Fish Meristics Data	1,015	R. Shipp

TABLE 2.1 continued

DMSAG FILE	FILE NAME	NUMBER OF RECORDS	RESPONSIBLE P.I.
MAFLO232B	Macro-Invertebrate Biomass Data	486	B. Vittor
MAFLO233N	Carbonate and Skeletal Sand Constituent (Particle Counts)	84	H. Wanless
MAFLO233P	Carbonate and Skeletal Sand Constituent (Percentage)	652	H. Wanless
MAFI0235S	STD Data	2,245	M. Rinkel
MAFIO235X	XBT Data	535	M. Rinkel
MAFLO205A	Mollusc Abundance Data	2,219	N. Blake
MAFL0206A	Foraminifera Abundance Data	9,229	W. Bock
MAFLO206R	Foraminifera Relic Abundance Data	2,178	W. Bock
MAFIO217A	Polychaete Abundance Data	8,589	H. Kritzler
MAFLO232A	Polychaete Abundance Data	5,461	B. Vittor
MAFLO207N	Demersal Fish Count Data	389	S. Bortone
MAFLO223N	Demersal Fish Count Data	278	G. Mayer
MAFIO229N	Demersal Fish Count Data	444	R. Shipp
MAFIO222Z	Zooplankton Abundance Data	4,104	F. Maturo/ J. Caldwell
MAFIO213A	Epifaunal-Epifloral Abundance Data	664	T. Hopkins
MAFIO226A	Micro-Mollusc Abundance Data	84	D. Moore
MAFLO226R	Micro-Mollusc Relic Abundance Data	423	D. Moore
MAFIO222M	Meiofaunal Abundance Data	2,952	F. Maturo/ M. Crezee
RIGMO206A	Foraminifera Abundance Data	1,465	W. Bock
RIGMO206B	Foraminifera Sample Density Data	74	W. Bock
RIGMO211A	Standard Sediment Parameter Data	148	L. Doyle
RIGMO214A	Surface Sediment Clay Mineralogy Data	74	W. Huang
RIGMO219A	Sediment Organic Carbon Data	74	J. & T. Lytle

TABLE 2.1 continued

DMSAG FILE	FILE NAME	NUMBER OF RECORDS	RESPONSIBLE P.I.
RIGMO219B	Hydrocarbon Benthic Ratio Data	73	J. & T. Lytle
RIGMO219H	Hydrocarbon Peak Data	5,342	J. & T. Lytle
RIGMO219R	Sediment Organic Carbon Ratio Data	74	J. & T. Lytle
RIGMO225H	Hydrocarbon Peak Data	9,941	P. Meyers
RIGMO225Rl	Hydrocarbon Ratio Data Card 1	141	P. Meyers
RIGMO225R2	Hydrocarbon Ratio Data Card 2	141	P. Meyers
RIGMO225S	Summary of Gas Chromatography Data	282	P. Meyers
RIGMO255T	Taxonomic Hydrocarbon Data	78	P. Meyers
RIGMO227A	Sediment Trace Metal Data	74	B. Presley
RIGMO227M	Invertebrate Trace Metal Data	148	B. Presley
RIGMO227T	Invertebrate Taxonomic Trace Metal Data	148	B. Presley
MAFLO100	BLM Cruise Station Data	457	
MAFIO101	Box Core Program	1,607	
MAFL0102	Dive Program	1,256	
MAFLO103	Dredge/Trawl Program	605	
MAFLO104	Water Column Program	616	
RIGMO100	BLM Cruise Station Data	134	
RIGMO102	Dive Program	669	
RIGMO103	Dredge/Trawl Program	754	

INFORMATION AND DATA ANALYSIS PROVIDED TO PRINCIPAL INVESTIGATORS

The following services have been provided to the principal investigators of the MAFLA project by DMSAG personnel. They are considered in groups which required similar data manipulation.

- 1. As far as possible, all principal investigators have received formatted listings of their data as it appears in the data bank following verification, editing, and, in many instances, consultations with the investigators regarding necessary format modification. Several difficulties did arise, though:
 - a) Changes in instrumentation, terminology of sampling identification, and precision of recorded results were often detected only upon the receipt of sample data by DMSAG.
 - b) There seems to be extensive use of non-standard taxonomic identifiers by the MAFLA principal investigators. Due to the fact that much of the software developed by DMSAG requires absolute consistency of spelling and notation, much effort was expended in ensuring this within the data for each principal investigator. The effort required to synoptize the taxonomy among all investigators would be prohibitively expensive, though desirable.
 - c) The hydrocarbon data has involved certain particular problems.

 For one thing, it is very voluminous, comprising more than half of the data bank. Also, the automatic procedures used in large-scale chromatographic work have provided much information which

is in addition to that required for this project. Due to the amount of this data and the problems attendant to its entry in the data bank, we have been unable to perform extensive analysis on it.

- d) Requests have often been received for listings of data while it is still in the process of editing and previous to verification by the principal investigator. The dilemma of whether to immediately respond or await verification has been exacerbated by the apparent unwillingness of some investigators to verify their data as it exists in the data bank.
- e) Delays in the submission of data to DMSAG by the principal investigators have created obvious difficulties. Not only do these delays make it difficult for DMSAG to provide timely service, but the ensuing concentration of activity just prior to report deadlines results in an inefficient allocation of resources by DMSAG personnel, but also in increased difficulty in acquiring necessary data processing resources-keypunching, software development, and computer time.
- f) On several occasions it has been requested of DMSAG that a formatted dump of the complete data base be produced. While these may be of value to those requesting them, it should be realized that such an undertaking is highly expensive in time and money due to the necessary reallocation of large amounts of manpower and computer time. One of these requests had to be fulfilled during a major holiday weekend resulting in a tremendous loss of morale among

DMSAG personnel.

- Program, was carried out using various routines developed for the implementation of the Standard Operating Procedure (SOP) proposed by Dr. Kritzler. Among these are the following types of analysis:
 - a) raw listings and summary data including numbers of species, animals and percent of sample for each taxonomic designation, replicate, or sample.
 - b) density estimated by species, replicate, and sample.
 - c) Shannon-Weaver diversity/evenness measures by sample.
 - d) affinities between replicates and between stations including Sander's affinities, Morisita's minimal percentage affinities, and the index of similarity.
 - e) Mountford's pairwise clustering of affinities.
 - f) Cole species affinities within station.

The output of the relevant routines, as determined by the principal investigators, was provided for the following investigators: Blake, Bock, Bortone, Caldwell, Collard, Kritzler, Mayer, Shipp, and Vittor. For Hopkins and Crezee, only the diversity/evenness measures were obtained from the SOP. In addition, the following analyses were also delivered:

a) Collard-correlation between several taxonomic category abundances and the oceanographic/meteorological factors observed; analyses of variance for total abundances of various taxonomical levels with location, sample period, and time of collection (day/night) using several variance-reducing data transformations; tabulations

- of abundances for species by station and stations by species.
- b) Crezee-tabulation of station totals by species; correlation of meiofaunal abundances with sediment mean grain size; tabulation, by station, of the numbers of turbellarians, gastrotrichs, copepods, and nematodes collected.
- by stations, coral type within station, quadrat, and coral type within quadrat for each sample period and for the sample periods combined; correlations of hard and soft coral abundances with stations and quadrat; analysis of variance for selected hard and soft species at each station, of abundance versus species and quadrat.
- d) Bortone, Mayer, Shipp-determination of frequency distributions of demersal fish length data by species and biomass data by species and station.
- e) Vittor-correlations between sediment grain size characteristics and diversity/evenness measures, total abundance, and total number of species for each station, by sample periods.
- 3. Perhaps the most requested data listings are those of sedimentary data including grain size characteristics, trace metals, hydrocarbon, mineralogy, and ATP. This should be considered in the design of any future study of this type. In view of the fact that at least a qualitative assessment is required of the relationship between sedimentary and biological factors and observing the occurrence of microhabitats in the box-core stations, we are forced to conclude that it may be necessary to acquire sedimentary information for every

core in order to validly quantify such assessments.

- 4. In addition to the analyses discussed above and the routine transmittal of data listings to those requesting them, the following analyses have also been performed:
 - a) Lytles-correlations between sediment grain size characteristics and hydrocarbon summary data (total aliphatics, total aromatics, total organic carbons).
 - b) Meyers-graphing of chromatographic data (retention time versus percent of sample for peak).
 - c) Pyle-conversion of geophysical shot point locations to Universal

 Transverse Mercator projection in feet (see Appendix B) and their

 mapping at 1:1,000,000 scale.
 - d) Doyle-calculation of mean grain size for standard sedimentary parameter data.
- 5. Several requests for analysis have been made to DMSAG which were not applicable to the intended data. Many times the problem was that the data needed to do the requested analyses had never been collected.

 Also, this has resulted in a confusion of the distinction between categorical and numerical data. In addition, the method of collection and the variability of the data have made some statistical results lose value. Such a problem has recently occurred as a result of a request by S. Betzer. Similar difficulties have also resulted from requests by Collard, Hopkins, and others.
- 6. Finally, all STD data was sent to all principal investigators.

RECOMMENDATIONS

One of the greatest difficulties in this project has been the lack of standardization regarding channels of communication. It would help greatly if it were made clear that all requests of DMSAG should be sent in writing to the director of DMSAG.

Secondly, the work statement is not clear concerning the responsibility for the various phases of data preparation. The responsibility for transcribing raw data into DMSAG format and the verification of data as entered in the data bank should be more clearly established.

The opportunity for DMSAG personnel to meet with the principal investigators of each program should be more formally established as a part of the quarterly meetings. Presently, such discussions occur haphazardly.

Finally, some mechanism needs to be established so that DMSAG may be aware of secondary and tertiary data and sample transmittal. We have, on occasion, needed to know the final recipient of a sample or who received data from a given source. Our limited information combined with the errors found in the records of some primary transfers has limited our ability to answer such questions.

APPENDIX A

DMSAG DATA FORMAT DESCRIPTIONS

BLM Cruise Station Data

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0100	DMSAG File Code
10-13	XXXX .	BLM Cruise Number
15-13	xxxx	Research Vessel Identification
20-22	XXX	Chief Scientist Initials
24-26	xxx	Sample Method (See Table I)
23-31	xxxx	Station Number
33–39	XXXXXX	Latitude
40	A,B,C,D, E or F	Latitude-Longitude Format Code (See Table II)
41-47	XXXXXXX	Longitude
49-53	XXXXX	Water Depth (to a tenth)
54	F or M	Feet or Meter Indicator
56-61	XXXXXX	Date (Year/Month/Day)
63-66	XXXX	Start Time (GMT Hours/Minutes)
68-71	XXXX	Stop Time (GMT Hours/Minutes)
73	x	Inventory File Key, IFK (See Table III)
74-75	XX	Number of Inventory File Records
77-80	xxxx	DMSAG Sequencer

Box Core Program

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0101	DMSAG File Code
10-12	XXX	Sample I.D.
14-15	xx	Number of Photographs
17-19	xxx	Depth of Core (centimeters)
21-22	XX	Number of Subsamples
24-25	XX	P.I. Code: Sediment Analysis
27-28	xx	P.I. Code: Sediment Archives
30-31	XX	P.I. Code: X-Radiography
33-34	xx	P.I. Code: Hydrocarbon Analysis (1 gal.)
36-37	xx	P.I. Code: Hydrocarbon Analysis (1/2 gal.)
39-40	xx	P.I. Code: Hydrocarbon Analysis (1 pt.)
42-43	xx	P.I. Code: Trace Metal Analysis
45-46	XX	P.I. Code: ATP Analysis
48-49	xx	P.I. Code: Micromollusc Identification
51-52	XX	P.I. Code: Foraminifera Identification
54-55	xx	P.I. Code: Meiofauna Identification
57-58	xx	P.I. Code: Macrofauna Identification
77-80	XXXX	DMSAG Sample DMSAG Sequencer

Diving Program

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0102	DMSAG File Code
10-13	XXXX	Sample I.D.
15-16	XX	Number of Subsamples
18-20	XXX	Preservation Method (Table I)
22-23	XX	P.I. Code: Trace Metal Analysis
24-25	Blank or QC	TMA Quality Control Indicator
27-28	xx	P.I. Code: Algal Hydrocarbon Analysis
29-30	Blank or QC	AHA Quality Control Indicator
32-33	xx	P.I. Code: Macrofaunal Hydrocarbon Analysis
34-35	Blank or QC	MHA Quality Control Indicator
37-38	XX	P.I. Code: Histopathology
40-41	xx	P.I. Code: Invertebrate Identification
43-44	XX	P.I. Code: Sediment Analysis
46-47	xx	P.I. Code: Clay Mineralogy Analysis
49-50	xx	P.I. Code: Foraminifera Identification
52-53	XX	P.I. Code: Archive Sediment
54-55	XX	P.I. Code: Archive Clay Mineralogy
56–57	XX	P.I. Code: Archive Foraminifera Identification
77-80	XXXX	DMSAG Sequencer

Dredge/Trawl Program

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0103	DMSAG File Code
10-13	xxxx	Sample I.D.
15–16	xx	Number of Subsamples
18-20	xxx	Preservation Method Code (See Table 1)
22-23	xx	P.I. Code: Trace Metal Analysis
24-25	Blank or QC	TMA Quality Control Indicator
27-28	XX	P.I. Code: Histopathology
30-31	XX	P.I. Code: Demersal Fish Identification
33-34	XX	P.I. Code: Algal Hydrocarbon Analysis
35–36	Blank or QC	AHA Quality Control Indicator
38–39	xx	P.I. Code: Macrofaunal Hydrocarbon Analysis
40-41	Blank or QC	MHA Quality Control Indicator
#3-#	xx	P.I. Code: Invertebrate Identification
77-80	xxxx	DMSAG Sequencer

Table 1. DMSAG Preservation Method Codes.

Code	Preservation Method
001	Freeze
002	Dry
003	Alcohol
004	Dietrich's
005	Formalin

Water Column Program

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0104	DMSAG File Code
10-13	xxxx	Sample I.D.
15–16	XX	Number of Subsamples
18-20	xxx	Preservation Method
22-23	XX	P.I. Code: Neuston Identification
25–26	XX	P.I. Code: Neuston Hydrocarbons
28-29	XX	P.I. Code: Neuston Trace Metals
31-32	XX	P.I. Code: Zooplankton Identification
34-35	XX	P.I. Code: Zooplankton Hydrocarbons
37-38	XX	P.I. Code: Zooplankton Trace Metals
40-41	XX	P.I. Code: Phytoplankton: Chl-A
43-44	XX	P.I. Code: Phytoplankton: C-14
46-47	XX	P.I. Code: Dissolved Hydrocarbons
49-50	XX	P.I. Code: Particulate Hydrocarbons
52-53	XX	P.I. Code: Dissolved Organic Carbon
55-56	XX	P.I. Code: Particulate Organic Carbon
58-59	XX	P.I. Code: Water Column Trace Metals
61-62	XX	P.I. Code: Suspended Minerals
64-65	xx	P.I. Code: STD Observations
67-68	xx	P.I. Code: XBT Observations
70-71	xx .	P.I. Code: Transmissometry
77-80	xxxx	DMSAG Sequence

DMSAG SCIENTIFIC DATA FILE 0201L

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0201	DMSAG File Name
10-12	xxx	Species Counter for Current Sample
14-15	XX	L-Record Counter for Current Species
17-22	IIIIIf	First Length Measurement (mm)
24-29	IIIIIf	First Weight Measurement (g)
31-36	IIIIIf	Second Length Measurement (mm)
38-43	IIIIIf	Second Weight Measurement (g)
45-50	IIIIIf	Third Length Measurement (mm)
52-57	IIIIIf	Third Weight Measurement (g)
59-64	IIIIIf	Fourth Length Measurement (mm)
66-71	IIIIIf	Fourth Weight Measurement (g)
7 5	D or T	Dredge or Trawl Indicator
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements in the file are demersal fish meristic values (lengths, and weights). For data entries, I..., f... denote integer and fractional components, respectively.

DMSAG SCIENTIFIC DATA FILE 0203N

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0203N	DMSAG Scientific Data File Name
10-13	xxxx	Sample I.D.
15–22	IIIIffff	Iron Concentration (parts per million dry weight)
24-31	IIIIffff	Chromium Concentration (parts per million dry weight)
33-40	IIIIffff	Nickel Concentration (parts per million dry weight)
42-49	IIIIffff	Cadmium Concentration (parts per million dry weight)
51-58	IIIIffff	Vanadium Concentration (parts per million dry weight)
60-67	IIIIffff	Lead Concentration (parts per million dry weight)
69-76	IIIIffff	Copper Concentration (parts per million dry weight)
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are trace metal concentration values for representative neuston species. For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0203N

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0203N	DMSAG Scientific Data File Name
10-13	xxxx	Sample I.D.
15-22	IIIIffff	<pre>Iron Concentration (parts per million dry weight)</pre>
24-31	IIIIffff	Chromium Concentration (parts per million dry weight)
33-40	IIIIffff	Nickel Concentration (parts per million dry weight)
42-49	IIIIffff	Cadmium Concentration (parts per million dry weight)
51-58	IIIIffff	Vanadium Concentration (parts per million dry weight)
60-67	IIIIffff	Lead Concentration (parts per million dry weight)
69-76	IIIIffff	Copper Concentration (parts per million dry weight)
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are trace metal concentration values for representative neuston species. For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0203R

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFLA	BLM-OCS Area Designation
5- 9	0203R	DMSAG Scientific Data File Name
10-13	XXXX	Sample I.D.
15-20	IIIIff	Suspended Particulate Matter $(\mu g/\ell)$
21-26	IIffff	Percent Silicon
27-32	IIffff	Percent Copper
33-38	IIffff	Percent Cadmium
39-44	IIffff	Percent Lead
45-50	IIffff	Percent Iron
51-56	IIffff	Percent Aluminum
57-62	IIffff	Percent Chromium
63-68	IIffff	Percent Nickel
69-74	IIffff	Percent Vanadium
77–80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are trace metal percentages (refractory fraction). For data entries I... and f... denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0203Z

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Description
5- 9	0203Z .	DMSAG Scientific Data File Name
10-13	XXXX	Sample I.D.
15-20	IIIfff	Percent Iron
22-27	IIIfff	Percent Chromium
29-34	IIIfff	Percent Nickel
36-41	IIIfff	Percent Cadmium
43-48	IIIfff	Percent Vanadium
50-55	IIIfff	Percent Lead
57-62	IIIfff	Percent Copper
77-80	XXXX	DMSAG sequencer

NOTE: Data elements within this file are zooplankton trace metal values. For data entries I... and f... denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0203W

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0203W	DMSAG Scientific Data File Name
10-13	XXXX	Sample I.D.
15-20	IIIIff	Suspended Particulate Matter (µg/l)
22-27	IIffff	Percent Calcium
29-34	IIffff	Percent Copper
36-41	IIffff	Percent Cadmium
43-48	IIffff	Percent Lead
50-55	IIffff	Percent Iron
57-62	IIffff	Percent Chromium
64-69	IIffff	Percent Nickel
71-76	IIffff	Percent Vanadium
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are trace metal percentages (weak acid soluble fraction). For data entries I... and f... denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0204M

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0204M	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-21	IIIIffff	Cadmium Concentration (parts per million dry weight)
23-30	IIIIffff	<pre>Iron Concentration (parts per million dry weight)</pre>
32–39	IIIIffff	Copper Concentration (parts per million dry weight)
41-48	IIIIffff	Lead Concentration (parts per million dry weight)
50-57	IIIIffff	Vanadium Concentration (parts per million dry weight)
59-66	IIIIffff	Chromium Concentration (parts per million dry weight)
68-75	IIIIffff	Nickel Concentration (parts per million dry weight)
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are trace metal concentration values for representative macroinvertebrate species. For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0204R

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0204R	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-21	IIIIffff	Cadmium Concentration (parts per million dry weight)
23-30	IIIIffff	Iron Concentration (parts per million dry weight)
32-39	IIIIffff	Copper Concentration (parts per million dry weight)
41-48	IIIIffff	Lead Concentration (parts per million dry weight)
50-57	IIIIffff	Vanadium Concentration (parts per million dry weight)
59-66	IIIIffff	Chromium Concentration (parts per million dry weight
68-75	IIIIffff	Nickel Concentration (parts per million dry weight)
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are trace metal concentration values of representative macroinvertebrate species. For data entries I..., and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0204T

Column	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0204T	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-20	xxxxxxx	Collection I.D. Number
22-57	xxxxxx	Species Identification
77-80	xxxx	DMSAG Sequencer

DMSAG SCIENTIFIC DATA FILE 0205A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: Blank	Taxonomic Level Descriptor
5-35	XXXXXX	Phylum, Class, Family or Species Name
37-39	XXX	Number of Individuals Counted in Box- Core Replicate A
41-43	XXX	Number of Individuals Counted in Box- Core Replicate B
45-47	XXX	Number of Individuals Counted in Box- Core Replicate C
49-51	XXX	Number of Individuals Counted in Box- Core Replicate D
53-55	XXX	Number of Individuals Counted in Box- Core Replicate E
57-59	XXX	Number of Individuals Counted in Box- Core Replicate F
61-63	XXX	Number of Individuals Counted in Box- Core Replicate G
65-67	XXX	Number of Individuals Counted in Box- Core Replicate H
69-71	XXX	Number of Individuals Counted in Box- Core Replicate I
73-75	xxx	Number of Individuals Counted in Box- Core Replicate K
77-80	XXXX	DMSAG Sequence

NOTE: Data elements within this file are absolute abundance values for the taxon indicated by the Taxonomic Level Descriptor: Phylum (PHY:), Family (FAM:), or Species (Blank, no entry).

DMSAG SCIENTIFIC DATA FILE 0205B

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0205B	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-21	IIIIIIIf	Molluscan Biomass (m.g., wet weight)
23-30	IIIIIIIf	Polychaete Biomass (m.g., wet weight)
32-39	IIIIIIIf	Crustacean Biomass (m.g., wet weight)
41-48	IIIIIIIf	Echinoderm Biomass (m.g., wet weight)
50-57	IIIIIIIf	Miscellany Biomass (m.g., wet weight)
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are macroinvertebrate biomass values. For data entries, I... and f... denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0206A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: BLANK	Taxonomic Level Description
5-35	XXXXXX	Fhylum, Class, Family, or Species Name
37-40	XXXX	Total Number of Forams in Replicate A
42-45	XXXX	Total Number of Live Forams in Replicate A
47-50	XXXX	Total Number of Forams in Replicate K
57-60	xxxx	Total Number of Live Forams in Replicate K
77-80	XXXX	DMSAG sequencer

NOTE: Data elements within this file are absolute abundance values for the taxon defined by the Taxonomic Level Description: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (BLANK). Specifically, this file is used for storage of foraminifera abundance data: Total, Live.

DMSAG SCIENTIFIC DATA FILE 0206B RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0206в	LMSAG Scientific Data File Names
10-12	XXX	Replicate I.D.
14-18		Milliliters After Sieving
20-25	XXXXXX	Total Specimens Per Milliliter
27-32	xxxxxx	Live Specimens Per Milliliter
34-39	XXXXXX	Total Specimens Per Sample
41-46	xxxxxx	Live Specimens Per Sample
48-54	XXX:XXX	Planktonic To Benthonic Ratio
56-59	IIIf	Percent Live
61-64	XXXX	Number Species Per 300 (Total)
66-69	XXXX	Number Species Per 300 (Live)
77-80	xxxx	DMSAG sequencer

NOTE: For data entries, I... and f... mean integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0206R

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM:	Taxonomic Level Description
	BLANK	
5 - 35	XXXXXX	Phylum, Class, Family, or Species Name
37-40	XXXX	Total Number of Forams Present
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are absolute abundance values for the taxon defined by the Taxonomic Level Description: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (BLANK). Specifically, this file is used for the storage of foraminifera abundance data: Total.

DMSAG SCIENTIFIC DATA FILE 0207L

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0207	DMSAG File Name
10-12	xxx	Species Counter for Current Sample
14-15	xx	L-Record Counter for Current Species
17-22	IIIIIf	First Length Measurement (mm)
24-29	IIIIIf	First Weight Measurement (g)
31-36	IIIIIf	Second Length Measurement (mm)
38-43	IIIIIf	Second Weight Measurement (g)
45-50	IIIIIf	Third Length Measurement (mm)
52-57	IIIIIf	Third Weight Measurement (g)
59-64	IIIIIf	Fourth Length Measurement (mm)
66-71	IIIIIf	Fourth Weight Measurement (g)
75	D or T	Dredge or Trawl Indicator
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements in the file are demersal fish meristic values (lengths, and weights). For data entries, I..., f... denote integer and fractional components, respectively.

DMSAG SCIENTIFIC DATA FILE 0207N

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: BLANK	Taxonomic Level Descriptor
5-35	xxxx	Phylum, Class, Family or Species Name
37-39	XXX	Species Counter for Current Sample
41-44	XXXX	Species Abundance (Number of Individuals)
46-49	xxxx	Number of Individuals Measured
51-54	xxxx	Number of Individuals Weighed
56–59	XXXX	Total Weight This Sample (grams) to nearest .1 (right justified).
65	x	Species Abundance Quality Code (Q_1)
66	x	Length-Weight Quality Code (Q2)
7 5	D or T	Dredge or Trawl Indicator
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements in this file are absolute abundance values for demersal fish. Taxa defined by the taxonomic level descriptor: (Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (Blank, No Entry).

DMSAG SCIENTIFIC DATA FILE 0209C

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Description
1- 4	MATI	BIM-OCS Area Description
5 - 9	0209C	DMSAG Scientific Data File Name
11-20	xxxx	Retention Index
21-30	XXXX	OEP
71	H or B	Fraction
72-73	xx	Left justified Sample Type (N, D, W, P, Z, or other)
74	F or O	Column type
76	x	Sample period (1, 2, or 3)
77-80	XXXX	Station number

DMSAG SCIENTIFIC DATA FILE 0209H

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0209Н	DMSAG Scientific Data File Name
11-20	xxxx	Retention time
21-30	XXXX	Retention index
31-40	xxxx	Area
41-50	xxxx	Weight µg
51-60	XXXX	Weight (per)
61-70	xxxx	μg/l or μg/g
71	H or B	Fraction
72-73	XX	Left justified Sample type (N, D, W, P, Z, or other)
74	F or O	Column type
76	x	Sample period (1, 2, or 3)
77-80	XXXX	Station number

DMSAG SCIENTIFIC DATA FILE 0209S1

Columns	Entry	Description
<u>i- 4</u>	MAFL .	BLM-OCS Designation
5-10	020981	DMSAG Scientific Data File Name
11-20	xxxx	Size (grams or liters)
23-24	xx	Chromatograph date - year
25	/	slash
26-27	xx	Chromatograph data - month
28	/	slash
29-30	xx	Chromatograph data - day
31-40	xxxx	Extract weight (mg)
41-50	xxxx	Total 1
51-60	xxxx	Total 2
61-70	xxxx	Average OEP
71	H or B	Fraction
72-73	xx	Left justified Sample type (N, D, W, P, Z or other)
74	F or O	Column type
76	x	Sample period (1, 2, or 3)
77-80	xxxx	Station number

DMSAG SCIENTIFIC DATA FILE 0209S2

Columns	Entry	Description
1- 4	MAFL .	BIM-OCS Area Designation
5-10	020952	DMSAG Scientific Data File Name
11-20	XXXX	Pris Retention Index
21-30	xxxx	Phyt Retention Index
71	H or B	Fraction
72-73	XX	Left justified Sample type (N, D, W, P, Z, or Other)
74	F or O	Column type
76	x	Sample period (1, 2, or 3)
77-80	xxxx	Station number

DMSAG SCIENTIFIC DATA FILE 0209R1 RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5-10	0209R1	DMSAG Scientific Data File Name
11-20	xxxx	Ratio of Pris to Phyt
21-30	xxxx	Ratio of Phyt to NC18
31-40	xxxx	Ratio of Pris to NC17
41-50	xxxx	Ratio of Sumalk = NC20 to Sumalk >=NC21
51-60	xxxx	Ratio of Pris + Phyt to Sumalk
61-70	xxxx	Ratio of Sumalk to NC16
71	H or B	Fraction
72-73	xx	Left justified Sample type (N. D, W, P, Z or Other)
74	F or O	Column type
76	x	Sample period (1, 2, or 3)
77–80	xxxx	Station number

DMSAG SCIENTIFIC DATA FILE 0209R2

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5-10	0209R2	DMSAG Scientific Data File Name
11-20	xxxx	Ratio of odd to even
21-30	xxxx	Ratio of odd to even = NC20
31-40	xxxx	Ratio of odd to even >NC21
71	H or B	Fraction
72-73	xx	Left justified Sample type (N, D, W, P, Z, or Other)
74	F or O	Column type
76	x	Sample period (1, 2, or 3)
77-80	xxxx	Station number

DMSAG SCIENTIFIC DATA FILE 0210(*)

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Description
5- 8	0210	DMSAG Scientific Data File Name
9	I, F, L	<pre>Neuston Category I = Adult, L = Larvae, F = Fish</pre>
10-13	xxxx	Sample I.D.
14-15	XX	Index Card (continuation column)
17-22	XXXX	Phylum, Family Code
23-25	IIIII	Number of Individuals in Split Sample
27-32	XXXX	Phylum Family Code
33-35	IIIII	Number of Individuals in Split Sample
37-42	XXXX	Phylum, Family Code
43-45	IIIII	Number of Individuals in Split Sample
47-52	xxxx	Phylum and Family Code
53-55	IIIII	Number of Individuals in Split Sample
57-62	xxxx	Phylum Family Code
63-65	IIIII	Number of Individuals in Split Sample
67-72	XXXX	Phylum and Family Code
73-75	IIIII	Number of Individuals in Split Sample
77-80	xxxx	DMSAG Sequencer

NOTE: For data entries, I..., and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0210A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0210A	DMSAG Scientific Data File Name
10-13	xxxx	Sample I.D.
15-20	xxxxxx	Data (Year, month, day)
22-25	xxxx	(Local) Time net set
27-30	xxxx	(Local) Time net hauled
32-34	III	Ship heading (magnetic north)
36-39	IIII	Engine m.p.m.'s
41-42	xx	Current
71	X	Sea State (Beaufort Scale)
46-51	xxxxx	Flowmeter reading (start)
53-58	xxxxx	Flowmeter reading (stop)
60-61	II	Secchi Disk Depth (meters)
63	x	Forel Color
65-68	IIff	Bucket Temperature (°C)
70-72	IIf	Surface Salinity (°/00)
74-7 5	If	рH
77-80	xxxx	DMSAG sequencer

NOTE: For data entries, I... and f... denote integral fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0210B RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0210B	DMSAG Scientific Data File Name
10-13	xxx	Sample I.D.
15-16	II	Wind Direction Code
18-19	II	Wind Speed
21-22	II	Range of Wind Speed
24-25	II	Maximum Gust
27-30	xxxx	Cloud Cover Code
32-33	II	Weather Code
35	I	Visibility in Miles
37-40	IIff	Barometer
42-48	IIIIfff	Light in Foot Candles
50-53	IIff	Air Temperature (in °C)
55-58	xxxx	Moon Rise (Local Time)
60-63	xxxx	Moon Set (Local Time)
65-68	xxxx	Sun Rise (Local Time)
70-73	xxxx	Sunset (Local Time)
7 5	I	Moon Phase Code
77-80	xxxx	DMSAG Sequencer

NOTE: For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0210T RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5··· 9	0210T	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-17	IIII	Volume of Sample (milliliter)
19-21	III	Number of Splits
23-25	III	Total Invertebrate Phyla + Larvae
27-29	III	Total Adult Invertebrate Families
31-33	III	Total Fish Families
35-37	III	Total Fish Eggs
39-41	III	Total Larval Type
43-45	III	Total Larvae
47-51	IIIff	Volume of Sample Contents Bigger than 2.5 cm (in mi)
53-57	IIIff	Volume of Sargassum
59-63	IIIff	Weight of Tar
65-67	III	Neuston Collection Number
77-80	xxxx	DMSAG Sequencer

NOTE: For data entries, I..., and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0210V RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0210V	DMSAG Scientific Data File
10-13	XXXX	Sample I.D.
15-18	IIII	Volume of Sample (ml.)
20-24	IIIff	Volume of Sample Contents Bigger than 2.5 cm. (in ml.)
26-30	IIIff	Volume of Sargassum (in ml.)
32-36	IIIff	Weight of Tar (in grams)
38-42	IIIff	Weight of Plastic (in grams)
44-48	IIIff	Weight of Other Debris (in grams)
77-80	xxxx	DMSAG Sequencer

NOTE: For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0211A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0211A	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
13-14	01 02	Analysis Method Key
16–20	IIIff	Percent Weight of Sediments Greater than 2 mm
22-26	IIIff	Percent Weight of Sediments in 2.0000- 1.0000 mm range
28-32	IIIff	Percent Weight of Sediments in 1.0000-0.5000 mm range
3 ¹ 4-38	IIIff	Percent Weight of Sediments in 0.5000- 0.2500 mm range
40-44	IIIff	Percent Weight of Sediments in 0.2500-0.1250 mm range
46-50	IIIff	Percent Weight of Sediments in 0.1250-0.0625 mm range
52-56	IIIff	Percent Weight of Sediments in 0.0625-0.0040 mm range
58-62	IIIff	Percent Weight of Sediments in Less Than 0.0040 mm
64-68	IIIff	Percent CaCO3
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are Standard Sediment Parameter values for phi-classes as defined above. For data entries, I... and f..., denote integral and fractional parts of values, respectively. Analysis Method Key is either Ol or O2, according as Sieve or Settling Tube procedures were employed.

DMSAG SCIENTIFIC DATA FILE 0211B

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0211B	DMSAG Scientific Data File name
10-12	XXX	Sample I.D.
14-24	xx.xxxx/xx	Color Code From Chart
26-36	xx.xxxx/xx	Color Code From Chart
38-40	IIf	Depth in cm.
77-80	XXXX	DMSAG Sequencer

NOTE: For data entries, I... and f... denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0213A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: BLANK	Taxonomic Level Description
5-35	xxxxxx	Phylum, Class, Family or Species Name
37-38	XX	Quadrat Number
40-43	XXXX	Species Counts This Quadrat
45-48	XXXX	Species Abundance (number of individuals)
50	x	Coral Type (H=Hard, S=Soft)
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements in this file on epifaunal and epifloral species abundance values.

DMSAG SCIENTIFIC DATA FILE 0213Q

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Description
5- 9	0213Q	PMSAG File Name
10-13	xxxx .	Sample I.D.
15-16	XX	Quadrat Number
18-20	xxx	Maximum Quadrat Depth (ft.)
22-24	xxx	Minimum Quadrat Depth (ft.)
26-29	XXXX	Number of Species this Quadrat
31-34	IIIf	Species/Square Meter
36-39	XXXX	Number of Individuals
41-44	IIIf	Individuals/Square Meter
46-48	IIf	Temperature in °C
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are Dive Station Quadrat characteristics. For data entries, I..., and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0214A RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0214	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-18	IIIff	Percent Smectite
20-24	IIIff	Percent Chlorite
26-30	IIIff	Percent Illite
32-36	IIIff	Percent Kaolinite
38-42	IIIff	Percent Chlorite-Vermiculite
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are percentages of sedimentary clay minerals. For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0214B RECORD FORMAT DESCRIPTION

Columns	Entry	Descriptions
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0214B	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-18	IIIff	Percent Smectite
19-23	IIIff	Percent Chlorite
24-28	IIIff	Percent Illite
29-33	IIIff	Percent Kaolinite
34-38	IIIff	Percent Talc
39-43	IIIff	Percent Quartz
44-48	IIIff	Percent Feldspar
49-53	IIIff	Percent Aragonite
54-58	IIIff	Percent Low Magnesium Calcite
59-63	IIIff	Percent High Magnesium Calcite
64-68	IIIff	Percent Dolomite
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are percentages of suspended clays and minerals. For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0223L RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL .	BLM-OCS Area Description
5- 9	0553T	DMSAG File Name
10-12	xxx	Species Counter for Current Sample
14-15	xx	L-Record Counter for Current Species
17-22	IIIIIf	First Length Measurement (mm)
24-29	IIIIIf	First Weight Measurement (g)
31-36	IIIIIf	Second Length Measurement (mm)
38-43	IIIIIf	Second Weight Measurement (g)
45-50	IIIIIf	Third Length Measurement (mm)
52-57	IIIIIf	Third Weight Measurement (g)
59-64	IIIIIf	Fourth Length Measurement (mm)
66-71	IIIIIf	Fourth Weight Measurement (g)
75	D or T	Dredge or Trawl Indicator
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements in the file are demersal fish meristic values (lengths, and weights). For data entries, I..., and f..., denote integer and fractional components, respectively.

DMSAG SCIENTIFIC DATA FILE 0215

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0215	DMSAG Scientific Data File Name
10-13	XXXX .	Start Time for Sampling Procedure (hours, minutes GMT)
15-18	XXXX	Stop Time for Sampling Procedure (hours, minutes GMT)
20-22	XXX	Sample Depth (meters)
24-28	IIfff	First Chlorophyll-a value
30-34	IIfff	Second Chlorophyll-a value
36-40	IIfff	Third Chlorophyll-a value
42-46	IIfff	First Primary Productivity Value (mgC/m²/hr)
48-52	IIfff	Second Primary Productivity Value (MgC/M ² /hr)
54-58	IIfff	Third Primary Productivity Value (mgC/m²/hr)
60-65	IIffff	Solar Radiation Value (E/m ²)
67-72	IIIIff	Assimilation Value (mgC.mgChl-a)/E/m ² /hr)
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within the file are phyoplankton productivity, chlorophyll-a, and assimilation values. For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0216 RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0216	DMSAG Scientific Data File Name
10-15	IIffff	First POC Value
17-22	IIffff	Second POC Value
24-29	IIffff	Third POC Value
31-36	IIffff	First DOC Value
38-43	IIffff	Second DOC Value
45-50	IIffff	Third DOC Value
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are Particulate Organic Carbon (POC) and Dissolved Organic Carbon (DOC) values. For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0217A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: BLANK	Taxonomic Level Descriptor
5-35	XXXXXX	Phylum, Class, Family or Species Name
37-39	XXX	Number of Individuals Counted in Box- Core Replicate A
41-43	XXX	Number of Individuals Counted in Box- Core Replicate B
45-47	XXX	Number of Individuals Counted in Box- Core Replicate C
49-51	XXX	Number of Individuals Counted in Box- Core Replicate D
53-55	XXX	Number of Individuals Counted in Box- Core Replicate E
57-59	XXX	Number of Individuals Counted in Box- Core Replicate F
61-63	XXX	Number of Individuals Counted in Box- Core Replicate G
65-67	xxx	Number of Individuals Counted in Box- Core Replicate H
69-71	xxx	Number of Individuals Counted in Box- Core Replicate I
73-75	xxx ·	Number of Individuals Counted in Box- Core Replicate K
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are absolute abundance values for the taxon indicated by the Taxonomic Level Descriptor: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (Blank, no entry).

DMSAG SCIENTIFIC DATA FILE 0217B

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0217	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-21	IIIIIIIf	Molluscan Biomass (m.g., wet weight preserved)
23-30	IIIIIIIf	Polychaete Biomass (m.g., wet weight preserved)
32-39	IIIIIIIf	Crustacean Biomass (m.g., wet weight preserved)
41-48	IIIIIIIf	Echinoderm Biomass (m.g., wet weight preserved)
50-57	IIIIIIIf	Miscellany Biomass (m.g., wet weight preserved)
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are macroinvertebrate biomass values. For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0218 RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0218A	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-18	IIIIf	Sediment ATP Values (ng/g)
20-24	IIIIf	Standard Deviation for All Replicates
26-29	IIff	Sediment Wet Weight (g/cm ³)
31-34	IIff	Sediment Dry Weight (g/cm ³)
36-38	Iff	Ionic Efficiency
40-42	Iff	Adsorption Efficiency
44-46	Iff	Total Efficiency
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are Sediment ATP values. For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0219A	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-19	IIIIIf	Sediment Dry Weight (grams)
21-24	IIff	Percent Carbonate
26-29	IIff	Percent Organic Carbon
31-35	IIIff	Lipid Weight (milligrams)
37-41	IIIff	Aliphatic Weight (milligrams)
43-47	IIIff	Aromatic Weights (milligrams)
77-80	XXXX	DMSAG Sequencer

NOTE: For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219R

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0219R	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-18	IIII.f	Ratio of Lipids to Acidic Sediments
20-23	IIII.f	Ratio of Lipids to Total Sediments
25-27	IIf	Ratio of Lipids to Organic Carbons
29-32	IIff	Ratio of Total Hydrocarbons to Lipids
34-37	IIff	Ratio of Aliphatic HC to Aromatic HC
39-42	IIff	Ratio of Aliphatic HC to Acidic Sediments
44-47	IIff	Ratio of Aliphatic HC to Total Sediments
49-51	Iff	Ratio of Aliphatic HC to Organic Carbons
53-55	Iff	Ratio of Aliphatic HC to Lipid
57-60	IIff	Ratio of Aromatic HC to Acidic Sediments
62-64	Iff	Ratio of Aromatic HC to Total Sediments
66-68	Iff	Ratio of Aromatic HC to Organic Carbons
70-72	Iff	Ratio of Aromatic HC to Lipid
77-80	XXXX	DMSAG Sequencer

NOTE: For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219S

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0219S .	DMSAG File Name
10-12	xxx	Sample I.D.
14-17	XXXX	Total Peaks Aliphatics Fraction (ppb total sediment)
19-22	XXXX	Total Peaks Aromatic Fraction (ppb total sediment)
24-27	xxxx	Total N-Alkanes (ppb total sediment)
29-33	IIIff	Percent of N-Alkanes/Total Aliphatics
35-39	IIIff	Ratio of Aliphatics to Aromatics
41-45	IIIff	Ratio of C17 to C29
47-51	IIIff	Ratio of Cl7 to PRIS
53-57	IIIff	Ratio of C18 to PHY
59-63	IIIff	Ratio of PRIS to PHY
77-80	XXXX	DMSAG Sequencer

NOTE: For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219B RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0219B	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-19	IIIfff	Aliphatic Weight (ppm)
20-25	IIIfff	Aromatic Weight (ppm)
26-31	IIIfff	N-Alkanes (ppm)
32-36	Iffff	Ratio of Pristane and Phytane to N-Alkanes
37-40	Ifff	Ratio of Pristane to C-17
41-43	Iff	Ratio of Phytane to C-18
44-46	Iff	Ratio of Pristane to Phytane
47-51	IIIIf	Ratio of N-Alkanes to n-Cl6
52-54	IIf	Percent N-Alkanes to Aliphatics
55-59	IIIff	Ratio of Odd to Even
60-64	IIIff	Cl0-C20 Odd to Even
65-69	IIIff	C21-C31 Odd to Even
70-75	IIIfff	Ratio of C12-C20 to C21-C31
77-80	XXXX	DMSAG Sequencer

NOTE: For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219H

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BIM-OCS Area Designation
5- 9	0219Н	DMSAG file Code
10-12	XXX	Sample I.D.
14-18	IIIff	Retention Time
20-24	XXXXX	Kovats
26-30	IIIff	Micrograms
32-36	IIIff	Retention Time
38-42	XXXXX	Kovats
44-48	IIIff	Micrograms
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are Gas Chromatography results. For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0221

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL .	BLM-OCS Area Designation
5– 8	0221	DMSAG File Number
10-13	XXXX	Sample I.D.
15-18	IIII	Depth in Meters
20-24	IIIff	Percent Transmission
76	Blank or F	if on-station then leave blank, if off-station then use F and use lower sequences corresponding to two stations
77-80	XXXX	DMSAG Sequencer

NOTE: Data in the files pertain to transmissometry data. II.. and ff.., denote integral and fractional parts of measurements, respectively.

DMSAG SCIENTIFIC DATA FILE 0222C RECORD FORMAL DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Description
5 - 9	0222C	DMSAG File Name
11-14	xxxx	Minimum Depth Fished
16-19	xxxx	Maximum Depth Fished
21-25	IIIff	Volume 1 Water Filtered (cubic meter)
27-30	xxxx	Displacement and Volume (milliliters)
32-35	xxxx	Volume of Jelly Fish
37-41	IIfff	Replacement and Volume (ml/m^3)
43-45	XXX	Number of Species (records in File 0222Z)
47-49	xxx	Number of Splits
51-57	IIIffff	Biomass (grams)
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are zooplankton collection characteristics. For data entries I..., f..., denote integral and fractional components respectively.

DMSAG SCIENTIFIC DATA FILE 0222M

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: Blank	Taxonomic Level Descriptor
5-35	xxxx	Phylum, Class, Family or Species Name
37-41	XXXXX	Number of Individuals Counted in Box- Core Replicate A
43-47	xxxxx	Number of Individuals Counted in Box- Core Replicate I
49-53	XXXXX	Number of Individuals Counted in Box- Core Replicate K
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are absolute abundance values for the taxon indicated by the Taxonomic Level Descriptor: (Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (Blank, no entry).

DMSAG SCIENTIFIC DATA FILE 0222Z

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: Blank	Taxonomic Level Description
5-35	XXXXXX	Phylum, Class, Family or Species Name
37-39	xxx	Species Counter
41-44	xxxx	Species Abundance
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are absolute abundance values for zooplankton taxa, defined by the Taxonomic Level Description: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (blank, no value).

DMSAG SCIENTIFIC DATA FILE 0217A

RECORD FORMAT DESCRIPTION

Column	ns Entry	Description
1- 4	PHY: CLS: FAM: Blank	Taxonomic Level Descriptor
5-35	xxxxxx	Phylum, Class, Family or Species Name
37-39	XXX	Number of Individuals Counted in Box- Core Replicate A
41-43	XXX	Number of Individuals Counted in Box- Core Replicate B
45-47	XXX	Number of Individuals Counted in Box- Core Replicate C
49-51	XXX	Number of Individuals Counted in Box- Core Replicate D
53-55	xxx	Number of Individuals Counted in Box- Core Replicate E
57-59	XXX	Number of Individuals Counted in Box- Core Replicate F
61-63	XXX	Number of Individuals Counted in Box- Core Replicate G
65-67	XXX	Number of Individuals Counted in Box- Core Replicate H
69-71	xxx	Number of Individuals Counted in Box- Core Replicate I
73-75	XXX	Number of Individuals Counted in Box- Core Replicate K
77-80	XXXX	DMSAG Sequencer
MOME	Date alemants within this	617

NOTE: Data elements within this file are absolute abundance values for the taxon indicated by the Taxonomic Level Descriptor: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (Blank, no entry).

DMSAG SCIENTIFIC DATA FILE 0217B

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0217 .	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-21	IIIIIIIf	Molluscan Biomass (m.g., wet weight preserved)
23–30	IIIIIIIf	Polychaete Biomass (m.g., wet weight preserved)
32-39	IIIIIIIf	Crustacean Biomass (m.g., wet weight preserved)
41-48	IIIIIIIf	Echinoderm Biomass (m.g., wet weight preserved)
50-57	IIIIIIIf	Miscellany Biomass (m.g., wet weight preserved)
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are macroinvertebrate biomass values. For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0218 RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 8	0218A	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-18	IIIIf	Sediment ATP Values (ng/g)
20-24	IIIIf	Standard Deviation for all Replicates
26-29	IIff	Sediment Wet Weight (g/cm ³)
31-34	IIff	Sediment Dry Weight (g/cm ³)
36-38	Iff	Ionic Efficiency
40-42	Iff	Adsorption Efficiency
44-46	Iff	Total Efficiency
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are Sediment ATP values. For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL .	BLM-OCS Area Designation
5- 9	0219A	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-19	IIIIIf	Sediment Dry Weight (grams)
21-24	IIff	Percent Carbonate
26-29	IIff	Percent Organic Carbon
31-35	IIIff	Lipid Weight (milligrams)
37-41	IIIff	Aliphatic Weight (milligrams)
43-47	IIIff	Aromatic Weights (Milligrams)
77-80	xxxx	DMSAG Sequencer

NOTE: For data entries, I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219B RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0219B	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-19	IIIfff	Aliphatic Weight (ppm)
20-25	IIIfff	Aromatic Weight (ppm)
26-31	IIIfff	N-Alkanes (ppm)
32-36	Iffff	Ratio of Pristane and Phytane to N-Alkanes
37-40	Ifff	Ratio of Pristane to C-17
41-43	Iff	Ratio of Phytane to C-18
44-46	Iff	Ratio of Pristane to Phytane
47-51	IIIIf	Ratio of N-Alkanes to n-Cl6
52-54	IIf	Percent N-Alkanes to Aliphatics
55-59	IIIff	Ratio of Odd to Even
60-64	IIIff	ClO÷C20 Odd to Even
65-69	IIIff	C21-C31 Odd to Even
70-75	IIIfff	Ratio of C12-C20 to C21-C31
77-80	xxxx	DMSAG Sequencer

NOTE: For data entries, I..., and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219H RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0219Н	DMSAG File Code
10-12	XXX	Sample I.D.
14-18	IIIff	Retention Time
20-24	xxxxx	Kovats
26-30	IIIff	Micrograms
32-36	IIIff	Retention Time
38-42	XXXXX	Kovats
44-48	IIIff	Micrograms
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are Gas Chromatography results. For data entries I... and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0219R

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0219R	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-18	IIII.f	Ratio of Lipids to Acidic Sediments
20-23	IIII.f	Ratio of Lipids to Total Sediments
25-27	IIf	Ratio of Lipids to Organic Carbons
29-32	IIff	Ratio of Total Hydrocarbons to Lipids
34-37	IIff	Ratio of Aliphatic HC to Aromatic HC
39-42	IIff	Ratio of Aliphatic HC to Acidic Sediments
44-47	IIff	Ratio of Aliphatic HC to Total Sediments
49-51	Iff	Ratio of Aliphatic HC to Organic Carbons
53-55	Iff	Ratio of Aliphatic HC to Lipid
57-60	IIff	Ratio of Aromatic HC to Acidic Sediments
62-64	Iff	Ratio of Aromatic HC to Total Sediments
66-68	Iff	Ratio of Aromatic HC to Organic Carbons
70-72	Iff	Ratio of Aromatic HC to Lipid
77-80	XXXX	DMSAG Sequencer
NOTE: For	data entries, l	, and f, denote integral and fractional

DMSAG SCIENTIFIC DATA FILE 0219S RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	02198	DMSAG File Name
10-12	xxx	Sample I.D.
14-17	XXXX	Total Peaks Aliphatics Fraction (ppb total sediment)
19-22	XXXX	Total Peaks Aromatic Fraction (ppb total sediment)
24-27	XXXX	Total N-Alkanes (ppb total sediment)
29-33	IIIff	Percent of N-Alkanes/Total Aliphatics
35-39	IIIff	Ratio of Aliphatics to Aromatics
41-45	IIIff	Ratio of C17 to C29
47-51	IIIff	Ratio of Cl7 to PRIS
53-57	IIIff	Ratio of C18 to PHY
59-63	IIIff	Ratio of PRIS to PHY
77-80	XXXX	DMSAG Sequencer

NOTE: For data entries I..., and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0221

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS area Designation
5- 8	0221	DMSAG File Number
10-13	XXXX	Sample I.D.
15-18	IIII	Depth in Meters
20-24	IIIff	Percent Transmission
76	Blank or F	if on-station then leave blank, if off-station then use F and use lower sequences corresponding to two stations
77-80	xxxx	DMSAG Sequencer

NOTE: Data in the files pertain to transmissometry data. II..., and ff..., denote integral and fractional parts of measurements, respectively.

DMSAG SCIENTIFIC DATA FILE 0222C RECORD FORMAL DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Description
5- 9	0222C	DMSAG File Name
11-14	xxxx	Minimum Depth Fished
16-19	xxxx	Maximum Depth Fished
21-25	IIIff	Volume 1 Water Filtered (cubic meter)
27-30	XXXX	Displacement and Volume (milliliters)
32-35	xxxx	Volume of Jelly Fish
37-41	IIfff	Replacement and Volume (ml/m ³)
43-45	xxx	Number of Species (records in File 0222Z)
47-49	XXX	Number of Splits
51-57	IIIffff	Biomass (grams)
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are zooplankton collection characteristics. For data entries I..., f..., denote integral and fractional components, respectively.

DMSAG SCIENTIFIC DATA FILE 0222M

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: Blank	Taxonomic Level Descriptor
5-35	xxxx	Phylum, Class, Family or Species Name
37-41	XXXXX	Number of Individuals Counted in Box- Core Replicate A
43-47	xxxxx	Number of Individuals Counted in Box- Core Replicate I
49-53	xxxxx	Number of Individuals Counted in Box- Core Replicate K
77-30	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are absolute abundance values for the taxon indicated by the Taxonomic Level Descriptor: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (Blank, no entry).

DMSAG SCIENTIFIC DATA FILE 0222Z

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: Blank	Taxonomic Level Description
5-35	xxxxxx	Phylum, Class, Family or Species Name
37-39	xxx	Species Counter
41-44	XXXX	Species Abundance
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are absolute abundance values for zooplankton taxa, defined by the Taxonomic Level Description: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (blank, no value).

DMSAG SCIENTIFIC DATA FILE 0223M

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: Blank	Taxonomic Level Descriptor
5-35	xxxx	Phylum, Class, Family or Species Name
37-39	xxx	Species Counter for Current Sample
41-44	xxxx	Species Abundance (number of individuals)
46-49	xxxx	Number of Individuals Measured
51-54	xxxx	Number of Individuals Weighed
56-59	xxxx	Total Weight this Sample (grams)
65	x	Species Abundance Quality Code (Q_1)
66	x	Length-Weight Quality Code (Q_2)
68-69	XX	Number of Length-Weight Records in File 0223L
75	D or T	Dredge or Trawl Indicator
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements in this file are absolute abundance values for demersal fish. Taxa defined by the taxonomic level descriptor Phylum (PHY:), Family (FAM:), or Species (Blank, no entry).

DMSAG SCIENTIFIC DATA FILE 0225H

Columns	Entry	Description
1- 4	MAFL .	BLM-OCS Area Designation
5-9	0225Н	DMSAG Scientific Data File Name
11-15	II.ff	Retention time
19-25	IIII.ff	Retention index
35-44	IIIIIIII	Area
45-53	IIII.ffff	µg/peak
55-60	III.ff	Percent
65-73	IIII.ffff	μg/g
75	P or B	Fraction (P = Pet ether, B = Benzene)
76	F or O	Column type (F = FFAP, O = OV101)
77-80	XXXX	DMSAG Sequencer

DMSAG SCIENTIFIC DATA FILE 0225R1

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Description
5-10	0225R1	DMSAG Scientific Data File Name
11-20	XXXX	Isp/N-Alk
21-30	xxxx	Branched/Normal
31-40	XXXX	Odd/Even
41-50	XXXX	Odd/Even <20
51-60	XXXX	Odd/Even >20
61-70	XXXX	N-Alk/All
75	P or B	Fraction (P = Pet ether, B = Benzene)
76	F or O	Column type (F = FFAP, O = OV101)
77-80	XXXX	DMSAG Sequencer

DMSAG SCIENTIFIC DATA FILE 0225R2

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5-10	0225R2	DMSAG Scientific Data File Name
11-20	XXXX	N-Alk/NC16
21-30	xxxx	$N-Alk \leq 20/N-Alk > 20$
*31-40	xxxx	Pris/Phyt .
*41-50	xxxx	Pris/NC17
*51-60	xxxx	Phyt/NC18
75	P or B	Fraction (P = Pet ether, B = Benzene)
76	F or O	Column Type (F = FFAP, O = OV101)
77-80	xxxx	DMSAG Sequencer

DMSAG SCIENTIFIC DATA FILE 0225S RECORD FORMAT DESCRIPTION

Columns	Entry	Description
•		
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0225S	DMSAG Scientific Data File Name
11-15	XXXXX	Number of peaks
16-23	IIII.fff	Sample Weight in grams
24-31	IIII.fff	µg hydrocarbon/g of sample
7 5	P or B	Fraction (P = Pet ether, B = Benzene)
76	F or O	Column type (F = FFAP, 0 = OV101)
77-80	xxxx	DMSAG Sequencer

DMSAG SCIENTIFIC DATA FILE 0225T RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0225T	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-20	XXXXXX	Analysis I.D. Number
22-57	xxxxxx	Species Identification
59-60	XX	Dry to Wet Weight Conversion Factor
62	X	Replicate Code
77-80	XXXX	DMSAG Sequencer

DMSAG SCIENTIFIC DATA FILE 0226R RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: BLANK	Taxonomic Level Description
5-35	XXXXXX	Phylum, Class, Family, or Species Name
37-40	xxxx	Total Number of Micromollusc Present
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are absolute abundance values for the taxon defined by the Taxonomic Level Description: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (BLANK). Specifically, this file is used for storage of Micromollusc abundance data: Total.

DMSAG SCIENTIFIC DATA FILE 0227A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL .	BLM-OCS Area Designation
5- 9	0227	DMSAG Scientific Data File Name
10-12	XXX	Sample I.D.
14-17	IIff	Percent Iron constituent
19-23	IIIff	Lead concentration (parts per million)
25-29	IIIff	Copper concentration (parts per million)
31-35	IIIff	Nickel concentration (parts per million)
43-47*	IIIff*	Cadmium concentration (parts per million)
49-53	IIIff	Vanadium concentration (parts per million)
55-59	IIIff	Barium concentration (parts per million)
77-88	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are sediment trace metal concentration values (parts per million). For data entries, I..., and f..., denote integral and fractional parts of values, respectively.

^{*} A minus sign in column 43 means "less than".

DMSAG SCIENTIFIC DATA FILE 0227M

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0227M	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-21	IIIIffff	Cadmium Concentration (parts per million dry weight
23-30	IIIIffff	Iron Concentration (parts per million dry weight)
32-39	IIIIffff	Copper Concentration (parts per million dry weight)
41-48	IIIIffff	Lead Concentration (parts per million dry weight)
50-57	IIIIffff	Vanadium Concentration (parts per million dry weight)
59-66	IIIIffff	Chromium Concentration (parts per million dry weight)
68-75	IIIIffff	Nickel Concentration (parts per million dry weight)
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are trace metal concentration values for representative macroinvertebrate species. For data entries, I..., and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0227T RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BIM-OCS Area Designation
5- 9	0227T	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-20	XXXXXX	Analysis I.D. Number
22-57	XXXXXX	Species Identification
59-60	xx	Dry to Wet Weight Conversion Factor
62	Х	Replicate Code
77-80	xxxx	DMSAG Sequencer

DMSAG SCIENTIFIC DATA FILE 0229L RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0229L	DMSAG File Name
10-12	xxx	Species Counter for Current Sample
14-15	XX	L-Record Counter for Current Species
17-22	IIIIIf	First Length Measurement (mm)
24-29	IIIIIf	First Weight Measurement (g)
31-36	IIIIIf	Second Length Measurement (mm)
38-43	IIIIIf	Second Weight Measurement (g)
45-50	IIIIIf	Third Length Measurement (mm)
52-57	IIIIIf	Third Weight Measurement (g)
59-64	IIIIIf	Fourth Length Measurement (mm)
66-71	IIIIIf	Fourth Weight Measurement (g)
75	D or T	Dredge or Trawl Indicator
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements in the file are demersal fish meristic values (lengths, and weights). For data entries, I..., f..., denote integer and fractional components, respectively.

DMSAG SCIENTIFIC DATA FILE 0229M

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: BLANK	Taxonomic Level Descriptor
5-35	xxxx	Phylum, Class, Family or Species Name
37-39	xxx	Species Counter for Current Sample
41-44	xxxx	Species Abundance (number of individuals)
46-49	xxxx	Number of Individuals Measured
51-54	xxxx	Number of Individuals Weighed
56-59	xxxx	Total Weight This Sample (grams)
65	x	Species Abundance Quality Code (Q_1)
66	x	Length-Weight Quality Code (Q_2)
68-69	XX	Number of Length-Weight Records in File 0229L
75	D or T	Dredge or Trawl Indicator
77-90	XXXX	DMSAG Sequencer

NOTE: Data elements in this file are absolute abundance values for demersal fish. Taxa defined by the taxonomic level descriptor: Phylum (PHY:), Class (CLS:), Family (FAM:), or Species (BLANK, no entry).

DMSAG SCIENTIFIC DATA FILE 0232A

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	PHY: CLS: FAM: Blank	Taxonomic Level Descriptor
5-35	xxxxxx	Phylum, Class, Family or Species Name
37-39	xxx	Number of Individuals Counted in Box-Core Replicate A
41-43	XXX	Number of Individuals Counted in Box-Core Replicate B
45-47	XXX	Number of Individuals Counted in Box-Core Replicate C
49-51	XXX	Number of Individuals Counted in Box-Core Replicate D
53-55	XXX	Number of Individuals Counted in Box-Core Replicate E
57-59	XXX	Number of Individuals Counted in Box-Core Replicate F
61-63	XXX	Number of Individuals Counted in Box-Core Replicate G
65-67	XXX	Number of Individuals Counted in Box-Core Replicate H
69-71	XXX	Number of Individuals Counted in Box-Core Replicate I
73-75	XXX	Number of Individuals Counted in Box-Core Replicate K
77-80	XXXX	DMSAG Sequencer

NOTE: Data elements within this file are absolute abundance values for the taxon indicated by the Taxonomic Level Descriptor: Phylum (PHY:) Class (CLS:), Family (FAM:), or Species (Blank, no entry).

DMSAG SCIENTIFIC DATA FILE 0232B

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0232	DMSAG Scientific Data File Name
10-12	xxx	Sample I.D.
14-21	IIIIIIIf	Molluscan Biomass (m.g., wet weight preserved)
23-30	IIIIIIIf	Polychaete Biomass (m.g., wet weight preserved)
32-39	IIIIIIIf	Crustacean Biomass (m.g., wet weight preserved)
41-48	IIIIIIIf	Echinoderm Biomass (m.g., wet weight preserved)
50-57	IIIIIIIf	Miscellany Biomass (m.g., wet weight preserved)
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are macroinvertebrate biomass values. For data entries, I..., and f..., denote integral and fractional parts of values, respectively.

DMSAG SCIENTIFIC DATA FILE 0233N

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0233N	DMSAG Scientific Data File Name
10-12	xxx	Replicate I.D.
14-37	xxxx	Grain Type Nomenclature
39-43	IIIII	Number Counts in 4000 - 2000 µ grain size fraction
45-49	IIIII	Percent composition in 2000 - 1000 μ grain size fraction
51-55	IIIII	Percent composition in 1000 - 500 μ grain size fraction
57-61	IIIII	Percent composition in 500 - 250 μ grain size fraction
63-67	IIIII	Percent composition in 250 - 125 μ grain size fraction
69-73	IIIII	Percent composition in 125 - 62.5 μ grain size fraction
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are carbonate and skeletal sand constituent percentages. For data entries II..., denote integer parts.

DMSAG SCIENTIFIC DATA FILE 0233P

RECORD FORMAT DESCRIPTION

Columns	Entry	Description
1- 4	MAFL	BLM-OCS Area Designation
5- 9	0233P	DMSAG Scientific Data File Name
10-12	xxx	Replicate I.D.
14-37	xxxx	Grain Type Nomenclature
39-43	IIIff	Percent composition in $4000 - 2000 \mu$ grain size fraction
45-49	IIIff	Percent composition in 2000 - 1000 μ grain size fraction
51-55	IIIff	Percent composition in 1000 - 500 μ grain size fraction
57-61	IIIff	Percent composition in 500 - 250 μ grain size fraction
63-67	IIIff	Percent composition in 250 - 125 µ grain size fraction
69-73	IIIff	Percent composition in 125 - 62.5 μ grain size fraction
77-80	xxxx	DMSAG Sequencer

NOTE: Data elements within this file are carbonate and skeletal sand constituent percentages. For data entries, II..., ff..., denote integer and fractional parts, respectively.

APPENDIX B

CORRESPONDENCE FOR PLOTS

. DMSAG FILE 0101

BIM-MARIA	BOX	CORE	THVENTORY	DESTINATION	TIAMA
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DWSAG FILE 0103 NO. BLM-MAPLA TRAVE/DREDGE INVENTORY DESTINATION DATA BLY-CCS D::2:4G SAMPLE SUB PRES. Meth. TM TM ALGAL AR MACR MH DNS.1.7 SECUENTI DEM INV. AREA FILE 10 SPL ANAL QC HYDR. QC HYDZ OC FISH ΙĐ 1 2 3 4 5 6 7 8 0 10 11 12 11 14 15 16 17 18 19 20 21 22 23 24 25 26 27 26 20 36 31 32 32 34 35 36 37 38 30 (1) 41 MA F 1 0 1 0 3 M A F L C 1 0 3 X A F L 6 1 0 3 XI E O L O L E I A X X 0 1 0 3 0 1 0 3 1 0 1 6 3 2 6 1 6 2 6 1 6 3 × 4 7 L 0 1 0 3 Ela | 7 | 10 | 110 | 1 | 1 MA FIL C 10 3 34 7 2 0 2 0 3 1 : 44 FL 0105 X

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. DMSAG FILE 0201N DEMERSAL FISH COUNT DATA

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PRINCIPAL INVESTIGATOR: R. C. BAIRD

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PRINCIPAL INVESTIGATOR: P.R. BETZER

DMSAG FILE 0203R REFRACTORY FFACTION TRACE CLEMENT DATA

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PRINCIPAL INVESTIGATOR: GEORGE KNAUER

DMSAG FILE 0215 PHYTOPLANKTON DATA

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PRINCIPAL INVESTIGATOR: RICHARD L. IVERSON

SAUTLING PERIOD _

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EMSAG FILE 0214B SUSPENDED MINERALOGY DATA

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DMSAG FILE 0214A SURFACE SEDIMENT CLAY MINERALOGY DATA

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DMSAG FILE 0211A STANDARD SEDIMENT PARAMETER DATA

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*All - Analysis Method Samuling Period PRINCIPAL INVESTIGATOR: LARRY J. DOYLE DATE

DMSAG FILE 0210V NEUSTON COLLECTION DATA (Volume & Weight)

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DMSAG FILE 0203Z COOPLANKTON TRACE METAL DATA

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PRINCIPAL INVESTIGATOR: PETER RETZER

DMSAC FILE 0263M WEAK-ACID SOLUBLE TRACE ELEMENTS DATA

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SAPPLED PERIOD _____ DATE ____ PRINCIPAL INVESTIGATOR: PETER BEIZER

DMSAG FILE 0204M INVERTEBRATE TRACE METAL DATA

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SAMPLING PERIOD _____ DATE PRINCIPAL INVESTIGATOR: SUSAN B. BETZER

DMSAG PILE 0204R INVERTEBRATE TRACE METAL DATA

BLY-OCS DYSAG SAMPLE						711	VERTEBRA	ie inde	PEIAL	DATA										
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PRINCIPAL INVESTIGATOR: SUSAN B. BETZER

DMSAG FILE 0204T TAXONOMIC DATA FOR INVERTEBRATE TRACE METAL DETERMINATIONS

-OCS DMSAG SAMPLE	AMALYSIS		FOR INVERTEBRATE TRACE METAL DETERMINATIONS	VT. REPLICATE	TMSAG
EA FILE NAME ID	ID NUMBER	SPECIES IDENTIFICATI		FACTOR CODE	SEQUENCER
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VF 2 5 2 3 4 7					
VI 2 3 2 6 4 2 1 X					<u> X </u>
17 252 0 4 7 X					
47 E G 2 D 4 T				<u> </u>	
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X7 25 2 5 4 7 X					
4 7 12 6 2 B 4 7 X				<u> </u>	
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ABSTERS SERICO	DATE	PRINCIPAL.	INVESTIGATOR: SUSAN F	B. BETZER	

DMSAG FILE 0205A MOLLUSCAN SPECIES ABUNDANCE DATA

	MOLLUSCAN SPECIES ABUNDANCE DATA REPLICATE I.D.	EXSAS
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PRINCIPAL INVESTIGATOR: MORMAN J. BLAKE

DMSAG FILE 0205B INVERTEBRATE LIOMASS DATA

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PRINCIPAL INVESTIGATOR: NORMAN J. BLAKE

DMSAG FILE 0206A FORMINIFERA ABUNDANCE DATA

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SATILING PERIOD	DATE	PRINCIPAL INVESTIGATOR:	WAYNE D. BOCK

DHSAG FILE 0206B

					FOR	MINIFERA S	SAMPLE D	ENSITY I									•		•
BLY-CCS DYSAG AREA FILE	REPLICATE ID	MLS AFTER	TOTAL SPEC./	LIVE SPEC./		TOTAL C /SAMPLE	LI	VE SPEC. SAMPLE		PLANKTON RTHONIC		z Li		SPECIES:	1300 - LIVI	,			DACKETUES SECUETUES
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DMSAG FILE 0206R FORMINIFERA ABUNDANCE DATA

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PRINCIPAL INVESTIGATOR: WAYNE D. BOCK

SAMPLING PERICO

DATE

DMSAG FILE 0207L DEMERSAL FISH MEMISTICS DATA

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	, , , , ,	M	X			M	111		一			十八				XII			TXT	\top		门汉						\sqcap	X	X	\mathbb{K}	
		X				ΠXI						TIM				ХП			M			TK				(1)			X	\mathcal{L}	X	
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DMCAG FILE 0207N DEMERSAL FISH COUNT DATA

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┡╋┇╫╏┇╏┩╏┆╏ ╇┼┼┼┼┼	++++			以十十分	++++++	
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╏╏╬╬╬╇╃╃╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇╇			<u></u>			
┡┊╏╗╏╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒		KITT (X		份什份		
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SAMPLING PERIOD	DATE	Р	RINCIPAL	INVESTIGA	TOR: S.A.	BORTONE

DMSAG SCIENTIFIC DATA FILE 0209C

Fraction Styple Col.type S.P. RECORD FORMAT DESCRIPTION BLU-OCS DISAG RETENTION 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 29 21 22 23 24 23 26 27 28 29 30 31 12 23 33 34 35 36 37 33 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 67 65 69 70 71 72 73 74 75 76 77 78 79 70 MAFLOROSP MAPLICEOPO MAFLOROGA MAFLOSOGO MAF 102090 MAFTOROPO MAFL 02090 MAFIL 92090 MA F 12 0 2 3 9 0 MAFLO2090 MAFLO2090 W4 F 1 0 2 0 0 0 MA FILIS 20 9 C 14181-0209C MA F 1 0 2 0 9 0 MA 3004090 [h] [[] 이 일이 일이 일이 Ma F 202099

DMSAG SCIENTIFIC DATA FILE 0209H Fraction Sample type Col.type Station RECORD FORMAT DESCRIPTION BLM-OCS DASAG RETENTION RETENTION AREA FILE TIME INDEX AREA ug/l or ug/g MAFID209H MAFICOSOBH HAF10209H MAJUO209E 지시되는이외이외부 : 성 된 다 이 2 이 의 된 H & D 2 0 2 H A FLO 2 0 9 H

FPACTION Semple Type Col.Type DMSAG SCIENTIFIC DATA FILE 0209R1 3.P. Station RECORD FORMAT DESCRIPTION BLM-OCS DMSAG Sumalk=NC20/ Pris + Phyt/ PRIS /Phy+ Pris/NC17 Sumalk>=NC21 1 2 3 4 5 6 7 8 6 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 23 26 27 28 29 20 31 32 33 54 25 36 37 38 39 40 41 42 43 44 45 45 45 47 48 49 59 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 60 70 71 72 73 74 75 75 75 77 28 79 80 X X X X. MAF 12020 9 RE lx. 14 AF 12 02 0 9 BE

DMSAG SCIENTIFIC DATA FILE 0209R2 RECORD FORMAT DESCRIPTION

BLM-OCS DMSAG AREA FILE

ODD/EVEN

ODD/EAEH=NC50

ODD/EVEN >NC21

Sample Sype Col. type S.P.

1 2 2 4 5 6 7 6 9 13 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 27 28 29 20 31 32 33 34 35 36 37 48 49 59 51 52 53 54 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 60 TAFLD20982 AFLO209E2 대시키니아라이의교2

DMSAG SCIENTIFIC DATA FILE 0209S1 RECORD FORMAT DESCRIPTION Chromatograph Date

BLM-OCS DASAG

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DMSAG SCIENTIFIC DATA FILE 0209S2 RECORD FORMAT DESCRIPTION Sample type Col.type S.P.
Station number

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DMSAG FILE 0210 (*) NEUSTON SPECIES ABUNDANCE DATA

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EARLAG WILL GRICA MEUSTON COLLECTION DATA (CCEAMOGRAPHY)

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SAMPLING FERIOD DATE PRINCIPAL INVESTIGATOR: SMEED B. COLLARD.

DMSAC FILE 0210B NUESTON COLLECTION DAVA (METEOROLOGICAL)

MOON RISE MOON SET WIND CLCUD ZIX-CCS DYSAG SAYPLE いごつ MAX. SUN RISE DMSAG CCVER FILE DIR. FREED PANCE GUST WEATHER VIS BARGNETER LIGHT (Lecal) (Local) (Local) SECUENCES |X: X

SAMPLING FIRED DATE PRINCIPAL INVESTIGATOR:

SMEED R. COLLARD

PILVSE

DMEAC WILE COLUT EUSTON TOTALS AND VOLUME DATA

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SIMPLING PERIOD DATE PRINCIPAL INVESTIGATOR: SHEED COLLARD

DMSAG SCIENTIFIC DATA FILE 020951 RECORD FORMAT DESCRIPTION

BLM-OCS DMSAG

Fraction Sample Type Col.Type Chromatograph Date yr mon day Extract Wt Total 1 Total 2

S.P. Station Number AREA FILE SIZE Average OEP 1 2 3 4 5 6 7 8 9 10 11 1.2 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 20 32 132 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 59 51 52 53 54 55 55 55 55 57 58 50 66 1 62 64 64 65 66 67 68 69 70 71 72 73 74 75 79 70 70 # A = 1 02 0 9 0 1 χχ X X |X | X X XX ХУ их 1/ x x K 조류는 이 2019 K MINFELOISON k

DMSAG SCIENTIFIC DATA FILE 0209S2

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PRINCIPAL INVESTIGATOR: HENRY J. KRITZLER

DMSAG FILE C217A POLYCHASTE SPECIES ASUNDANCE DATA

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PRINCIPAL INVESTIGATOR: HENRY J. KRITZLER

DMSAG FILE C219A SEDIMENT ORGANIC CARBON DATA

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PRINCIPAL INVESTIGATOR: PAUL A. LAROCK

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PRINCIPLE INVESTIGATOR: J. AND T. LYTLE

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DMSAG FILE 0221 TRANSMISSOMETRY DATA

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TABBAR TILE 02222 ZOOPLASHION ABUNDING DATA

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DMSAG FILE 0222M MEIOFAUNAL ABUNDANCE DATA

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PRINCIPAL INVESTIGATOR: HEMRY J. KRITZLER

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PRINCIPAL INVESTIGATOR: HEHRY J. KRITZLER

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PRINCIPLE INVESTIGATOR: J. AND T. LYTLE

DMSAG FILE 0219B HYDROCARBON SUMMARY FOR BENTHIC ALGAE

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SAMPLING PERIOD DATE	PRINCIPAL INVESTIGATOR: FRANK J. MATURO	AND

MICHAEL R.

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DMBAG SCIENTIFIC DATA FILE 0225RL RECORD FORMAT DESCRIPTION

FRACTION COL.TYPE DESAG SEQUENCER BLM-OCS DMSAG AREA - FILE ISP/N-ALK BRANCHED/HORMAL ODD/EVEN ODD/TWINKS20 ODD/EVETI>20 N-ALK/ALL 医克萨耳氏定律 医克耳

DMSAG SCIENTIFIC DATA FILE 0225S Record Format Description

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DMSAG SCIENTIFIC DATA FILE 0225R2

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PRINCIPAL INVESTIGATOR: DONALD R. MOORE

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PRINCIPAL INVESTIGATOR: PHILIP NEYIXS

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DMSAG FILE 0227M INVERTEBRATE TRACE METAL DATA

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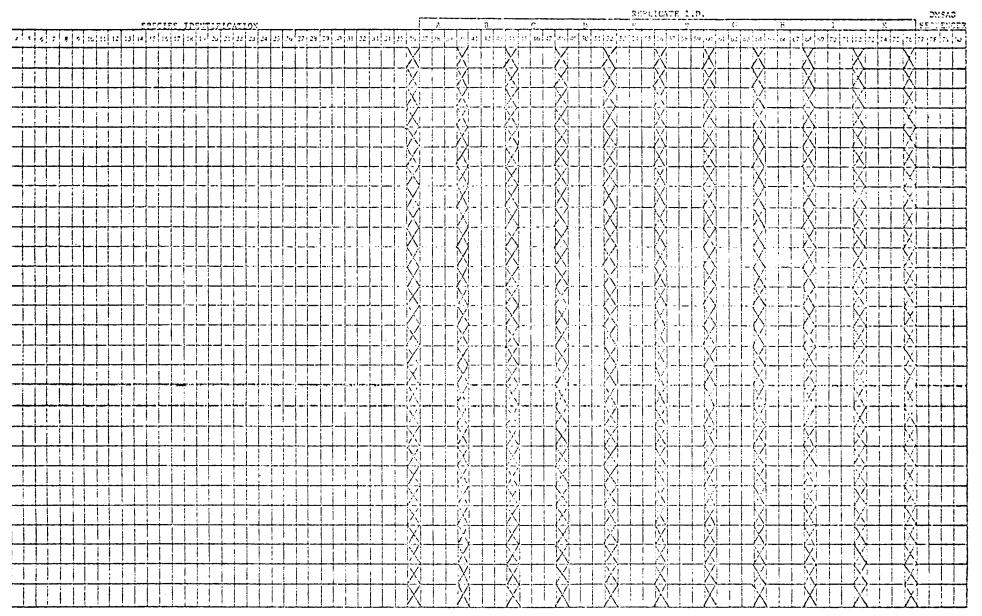
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DMSAG FILE 0232A POLYCHAETE SPECIES ABUNDANCE DATA



PRINCIPAL INVESTIGATOR: BARRY A. VITTOR

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DMSAG FILM 02328 INVENTURBLITE BIGGASS DATA

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PRINCIPAL INVESTIGATOR: BARRY A. VITTOR

DMSAG FILE 0329 ICHTHYOYANNA ARCHIVE DATA

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PRINCIPAL INVESTIGATOR: NAROLD R. NANLESS

BENTHIC POLYCHAETE FAUNA OF MAFLA STUDY TRANSECTS V AND VI

University of Alabama, Marine Science Programs

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ABSTRACT

Polychaetous annelids from MAFLA Transects V and VI were identified and counted for three sample series: June and September, 1975 and January, 1976. The mean numbers of species identified were similar at the two transects, but differed seasonally (June: 87; September: 67; January: 65). Abundance also changed seasonally (June: 583/0.5¼ m²; September: 326; January: 676). Biomass estimates differed between seasons, but not between transects. Species diversity, abundance and biomass appear to be related to sediment particle size. Lower values occur in finer sediments. Distributions of dominant species and families also appear to be related to sediment type, but may also be related to geographical location.

BENTHIC POLYCHAETE FAUNA OF MAFLA STUDY TRANSECTS V AND VI

INTRODUCTION

Polychaetous annelids are recognized as an important component of soft bottom macro-infauna. As relatively immotile members of the benthos, they are good indicators of the impacts of environmental perturbation. The effects of habitat changes have been studied by many authors, including McNulty (1961, 1970), Godcharles (1971), O'Connor (1972), and others. Most studies of Gulf of Mexico polychaetes have been descriptive, however (Hartman, 1951; Foster, 1969; Taylor, 1971; Kritzler, 1973; Vittor, 1976).

The purpose of the MAFLA polychaete program was to characterize the benthos of areas leased for oil exploration and development, in order to establish a baseline environmental condition against which future habitat changes could be evaluated. This paper is the final report for the 1975-76 polychaete analysis portion of the MAFLA program (for Transects V and VI). Key elements of this analysis included the sampling effort itself, polychaete identification and enumeration, and correlation of sediment characteristics with polychaete abundance, diversity, and assemblages. Seasonal aspects of these parameters were also evaluated.

MATERIALS AND METHODS

Transects V and VI included 18 stations, which were sampled during June and September, 1975 and January, 1976. During each sample period, nine (9) replicate 0.06 m² box cores were obtained per station. Each sample was subsampled for standard sediment parameter analysis, performed by Dr. Larry Doyle of the University of South Florida.

Each box core was sieved through a 0.5 mm mesh sieve immediately after collection. Material retained was placed in cotton bags and narcotized for 30 min. in 15% $MgSO_{l_{\! 4}}$. The samples were then transferred to 10% buffered formalin, and transported to the Dauphin Island Sea Lab for processing.

Rough-sorting of the infaunal samples involved staining with 1% Rose bengal vital stain, and removal of all visible fauna to 70% EtOH. These animals were then fine-sorted into the following groups: Mollusca; Polychaeta; Arthropoda; Echinodermata; and Other (eg. Porifera, Chidaria, Sipuncula, etc.). Each group was blotted dry, and a wet weight biomass determination made with a Mettler brand balance (accuracy ±0.1 mg). All mollusks were shipped to Dr. Normal Blake for analysis. The arthropod, echinoderm and other fractions were archived in the Invertebrate Museum of the Dauphin Island Sea Lab.

All polychaetes were identified to the family level initially. With few exceptions, they were further identified to species level and counted. After this processing, all individuals were returned to 70% EtOH and archived.

Most (approximately two-thirds) of the nearly 350 species identified were verified during two visits to the Smithsonian Institution. Most of the remaining taxa represent new species or species not represented in the Division of Worms of the Smithsonian. Comparison with specimens held at the Allan Hancock Foundation will be necessary to verify many of the latter category.

RESULTS

The complete list of all species identified is provided in Appendix A of this report. The complete file of station data is available upon request, from the Data Management Group (DMSAG).

Sediments

Sediment data provided by Dr. Doyle are summarized in Table 1. Sediments along Transect V (West Florida Shelf) are considerably coarser than those sampled

Table 1. Mean phi sediment particle diameter, sorting coefficient (phi), and CaCO3 content for surface sediments (from L. Doyle, 1976).

			le Per			ole Pe	riod II		e Peri	od III	
Station	Depth (m)	Mean Ø	o Ø	CaCO ₃ (%)	Mean Ø	ø	CaCO ₃ (%)	Mean Ø	ø	CaCO ₃ (%)	Classification
2528	38	-0.1	1.4	57.2	0.5	0.5	14.6	0.6	0.8	19.9	Coarse sand-rubble
2529	38	-0.3	1.2	76.0	0.3	0.9	76.7	0.3	0.7	27.1	Coarse sand-rubble
2530	41	-0.2	1.3	66.3	0.4	0.8	76.1	0.4	0.7	38.3	Coarse sand-rubble
2531	45	-0.5	0.9	84.5	0.1	1.1	89.6	0.4	0.8	45.4	Coarse sand-rubble
2532	52	0.8	1.1	78.0	0.1	0.9	82.8	0.1	0.9	82.4	Coarse sand
2533	68	0.5	0.8	86.0	0.5	0.7	74.4	0.4	0.8	23.2	Coarse sand
2534	74	-0.4	1.1	89.2	0.2	0.7	90.4	0.5	0.9	75.2	Coarse sand-rubble
2535	118	2.6	0.7	70.1	2.5	0.8	57.4	2.5	0.7	61.1	Fine sand-silt
2536	191	2.4	0.8	0	2.0	1.1	67.1	2.3	0.9	41.3	Fine sand-silt
2637	21	2.0	0.4	13.4	2.4	0.7	7.5	2.7	0.6	11.1	Fine sand
2638	25	3.0	0.4	18.2	2.9	0.4	12.2	2.8	0.7	0	Fine sand-silt
2639	32	1.6	1.1	21.5	2.2	0.7	15.5	1.8	0.7	15.0	Medium sand
2640	36	1.1	0.6	16.6	1.7	0.8	1.1	0.2	0.9	25.4	Coarse sand
2641	37	2.0	0.4	4.6	0.6	0.6	7.9	1.9	0.4	4.0	Medium sand
2642	36	1.6	0.9	9.2	1.6	0.7	0.4	1.0	0.4	3.6	Medium sand
2643	70	-0.1	1.4	83.8	0.6	0.8	76.1	-0.1	1.4	77.2	Coarse sand-rubble
2644	75	0.4	1.1	87.5	0.1	1.0	87.4	0.0	1.1	87.0	Coarse sand
2645	107	-0.4	0.8	87.5	0.6	0.9	81.5	0.2	1.0	4.1	Coarse sand-rubble

on Transect VI (Mississippi-Alabama Shelf). DeSoto Canyon appears to delimit the boundary between the calcareous sediments of Transect V and the riverine silts and sands of Transect VI. Whereas high CaCO₃ content along the former transect indicates presence of quantities of coralline rubble, high values at the three deep stations on Transect VI indicate the contribution of foraminferant tests to the sediments.

Major substrate types can be identified as follows:

- Coarse sand and coralline rubble to a depth of approximately 74 m
 along Transect V (mean organic carbon content = 0.9%);
- 2. Fine sand and silt (largely calcium cabonate) at depths greater than 100 m on Transect V (negligible organic carbon content);
- 3. Very fine riverine sand and silt within the influence of the Mississippi and Mobile River plumes, to a depth of 30 m along Transect VI (mean organic carbon content = 0.4%);
- 4. Mixed sand, silt and shell hash sediments at depths up to 70 m on Transect VI (mean organic carbon content = 0.19%);
- 5. Foraminferan sands at depths greater than 70 m on Transect VI (mean organic carbon content = 2.7%).

Significant seasonal changes in sediment particle size distribution may have occurred, as a result of passage of Hurricane ELOISE between the transects approximately four days before the September 1975 box coring cruise. A general decrease in mean particle diameter occurred after June.

Ploychaete Species and Individual Abundance

The numbers of species and individuals collected during the 1975-76 study period are shown in Table 2. These data showed significant differences due to both season and station effects, when tested with Friedman's analysis of variance (p<0.01 in each case). Transect V stations contained both more polychaete and

Table 2. Numbers of species and individuals at Transect V and VI station, expressed as number per $0.54~\mathrm{m}^2$.

	Ju	ne	Septe	mber	Janua	rv
insect V	#Spp.	#Indiv.	#Spp.	#Indiv.	#Spp.	#Indiv.
2528	129	1169	102	141414	96	1098
2529	95	869	102	676	81	878
2530	106	779	88	609	87	1237
2531	108	524	99	626	90	1138
2532	103	441	75	336	814	959
2533	93	488	52	160	66	569
2534	108	456	46	92 ·	76	410
2535	45	128	21	41	33	278
2536	38	85	31	51	3 ¹ 4	118
Means	92	549	68	337	72	743
SD	±53	±359	±41	±241	±40	±463
nsect VI	1.1.	2).5	06	0.2	2).	000
2637	44	345	26	93	34	288
2638	71,71	224	30	165	29	152
2639	95	1049	71	391	68	796
2640	102	1437	77	545	77	999
2641	79	631	89	393	63	1256
2642	89	509	83	386	64	708
2643	94	359	68	266	61	14014
2644	88	370	73	321	73	520
2645	108	640	74	281	66	362
Means	82	618	66	316	59	609
SD	±45	±405	±36	±183	±32	±389

more individuals, on the average, than stations along Transect VI. This pattern weakened with the September sample, when the two transects were essentially the same with respect to numbers of species and individuals.

Variability (SD) estimates were the same for both transects, suggesting that the combination of substrate differences and intra-station variation was nearly equal for the two shelf areas.

It is interesting to note that patterns of species and individual numbers along the transects are reversed with respect to depth. This indicates that depth per se is insignificant compared with sediment type (refer to Table 1 for depth and sediment data). Stated in another way, fine sand and silt sediments support fewer species and individuals than coarse sand sediments, regardless of the locations or sources of these sediments. In fact, highest polychaete abundance occurs in transitional sediments, which consist of sand, silt and shell/rubble.

Polychaete Biomass

Wet weight biomass data for Transect V and VI are summarized in Table 3. As with number of species and individuals, total polychaete biomass estimates differ significantly with respect to both season and station (p<0.01 in each case). The dramatic decline in biomass during September could be attributed to either seasonal succession or the effects of Murricane ELOISE (or both). Unfortunately, corresponding-season samples have not been obtained in 1976.

In general, transition zone sediments supported a higher standing crop of polychaetes than either very fine or foraminiferan sediments. The average size of polychaetes at stations on Transect VI appeared to be somewhat greater than that for Transect V. This difference, if real, may relate to the differences in family distributions, between the two areas. Syllids and spionids which dominate many stations on Transect V are very small, but numerous. This pattern will be discussed in a following section.

Table 3. Polychaete biomass at stations along Transects V and VI, expressed as grams wet weight per $0.54~\rm{m}^2$.

	<u>June</u>	September	January
ansect V 2528	8.05	14.314	2.89
2529	3.97	1.68	2.73
2530	4.48	1.75	4.07
2531	3.36	2.31	4.36
2532	2.07	0.43	3.98
2533	3.38	0.26	2.50
2534	1.78	0.16	2.01
2535	- 3.28	0.03	0.61
2536	0.99	0.14	0.45
Means	3.49	1.23	2.62
SD	±2.04	±1.44	±1.42
ransect VI 2637	4.68	0.92	0.62
2638	2.71	0.95	0.59
2639	7.62	2.24	5.20
2640	5.40	3.01	4.35
2641	2.39	2.03	2.57
2642	2.24	2.58	1.41
2643	4.18	1.27	1.24
2644	2.34	1.50	2.89
2645	3.00	1.06	1.71
Means	3.84	1.73	2.29
SD	±1.81	±0.76	±1.63

Polychaete Species Diversity

Measures of polychaete species diversity H', H_{max}, and J' were calculated by the Data Management Group, and are summarized in Table 4. These statistics were used according to Pielou (1969), and are defined as follows:

- (a) $H' = -\Sigma \log_2 p_i(p_i)$, where p_i = proportion of individuals of species i in sample
- (b) $H_{max} = lnS$, where S = no. of species
- (c) $J' = H'/H_{max}$

The decreases in H' and H_{max} from the June to the September samples again reflect seasonal succession and/or hurricane effects on the benthos. Surprisingly, evenness of diversity (J') did not change, indicating that species became less abundant uniformly through the community; some species decreased to extinction. Recovery of species adapted to sediment perturbation appeared to have taken place by January. On the average, the numbers of species present did not increase significantly. This suggests that recruitment of species dependent on dispersion by Gulf currents, and/or species with seasonal reproduction, did not occur. The June, 1976 sampling effort should indicate whether such recruitment has now taken place.

In general, lower species diversity occurred in the finer sediments (see Table 5 for station means), regardless of time of sampling. As a result of the differences between transects, with respect to location of such substrates, diversity (as H') did not vary linearly with water depth. That is, within the depth limits of this study, we cannot suggest that deeper stations support more diverse (and probably more stable) polychaete assemblages. This relationship will be dealt with further in a later section.

Highest mean H' values occurred at stations characterized by coarse sand/ rubble sediments. Presumably, these habitats present a greater diversity of

Table 4. Measures of polychaete diversity for Transects V and VI during 1975-76.

	5	Sample I		Sa	ımple II		Sar	mple III	
ation	H. '	H _{max}	J'	Н'	H _{max}	J'	Н'	H _{mex}	J'
2528	3.95	4.86	0.81	4.08	4.62	0.88	3.83	4.53	0.84
2529	3.76	4.55	0.83	3.74	4.62	0.81	3.46	4.37	0.79
2530	3.83	4.65	0.82	3.59	4.48	0.80	3.80	4.47	0.85
2531	3.89	4.67	0.83	3.80	4.60	0.83	3.40	4.50	0.75
2532	4.18	4.60	0.91	3.51	4.32	0.81	3.67	4.43	0.83
2533	4.08	4.52	0.90	3.39	3.95	0.86	- 3.38	4.19	0.81
2534	4.22	4.67	0.90	3.64	3.83	0.95	3.84	4.33	0.89
2535	3.39	3.78	0.90	2.75	3.04	0.90	2.02	3.47	0.58
2536	3.31	3.64	0.91	3.21	3.43	0.914	2.95	3.53	0.84
2637	2.91	3.78	0.77	2.73	3.26	0.84	2.66	3.53	0.76
2638	3.08	3.78	0.81	2.44	3.40	0.72	2.76	3.37	0.82
2639	3.79	4.55	0.83	3.79	4.26	0.89	3.42	4.22	0.81
2640	3.60	4.62	0.78	3.18	4.34	0.73	3.70	4.33	0.85
2641	3.44	4.36	0.79	3.87	4.47	0.87	3.10	4.13	0.75
2642	3.75	4.49	0.84	3.95	4.42	0.89	3.46	4.16	0.83
2643	4.07	4.54	0.90	3.60	4.22	0.85	3.57	4.11	0.87
2644	3.87	4.48	0.86	3.75	4.29	0.87	3.64	4.29	0.85
2645	3.99	4.78	0.85	3.87	4.30	0.90	3.91	4.17	0.94
Means	3.73	4.40	0.85	3.49	4.12	0.85	3.37	4.12	0.81

Table 5. Average diversity of polychaetes, as H', for Transects V and VI during the 1975-76 MAFLA study.

ansect V			Coefficient of
Station	<pre>Depth(m)</pre>	H' ±SD	Variation (%)
2528	. 38	3.95±0.13	3.3
2529	38	3.65±0.17	4.7
2530	J+J	3.74±0.13	3.5
2531	45	3.70±0.26	7.0
2532	52	3.79±0.35	9.2
2533	68	3.62±0.40	11.0
253 ¹ 4	74	3.90±0.29	7.4
2535	118	2.72±0.69	25.4
2536	191	3.16±0.19	6.0
ansect VI			Coefficient o
Station	Depth(m)	H' ±SD	Variation (%)
2637	21	2.77±0.13	4.7
2638	25	2.76±0.32	11.6
2639	32	3.67±0.21	5.7
2640	36	3.49±0.28	8.0
2641	37	3.47±0.39	11.2
2642	36	3.72±0.25	6.7
2643	70	3.75±0.28	7.5
2644	75	3.75±0.12	3.2
2645	107	3.92±0.06	1.5

niche space, and hence the spectrum of space resources (as sediment complexity) is larger than for those stations where a very fine, uniform sediment is found.

Dominant Species of Polychaetes

Table 6 summarizes the occurrence of dominant polychaetes at the 18 stations. Dominant species are considered to be those representing at least 5% of the total number of individuals at a station (regardless of biomass, however). If a species was dominant during any of the surveys conducted, its presence is so-indicated for the appropriate station(s).

Most of the species listed have not previously been recorded from the northeastern Gulf of Mexico (see Perkins and Savage, 1975). Several records represent range extensions for genera and families. Additional species appear to be unknown to science, and have been assigned provisional labels. A complete list of species found along Transects V and VI is provided in Appendix A.

Several interesting patterns appear in Table 6. Syllids, glycerids, goniadids, and spionids are most dominant in the coarse sand/rubble sediments of Transect V, and, to a lesser extent, in the coarse sediments of Transect VI. Paraonids dominate the latter habitats. Stations characterized by fine sand-silt substrates, on the other hand, are dominated by nereids, lumbrinerids, cirratulids, opheliids, and such individual species as Paraprionospic pinnata, Aedicira belgicae, Cossura A, and Magelona spp. It should be noted that species which occur especially in coarser sediments exhibit more extensive branchial/cirral development. Finer (and generally more organic-rich) sediments support a fauna characterized by reduced parapodial and accessory structure development. Whether this pattern reflects the evolution of alternative respiratory strategies is unknown, but warrants further study.

Table 6. Occurrence of dominant polychaetes along Transects V and VI during 1975-76. Species which comprise at least 5% of the total individuals at a station during one or more sample periods, are defined as numerically dominant.

Species/Station	2528	2529	2530	2531	2532	2533	2534	2535	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645
																		v
epidonotus sublevis mphinomid A			 										-				х	X X
yllis spongicola	x		 	 						 		 	-				<u>^</u>	$\stackrel{\sim}{-}$
vilis cornuta			 			x	x			 		 	┼──				х	
yllis hyalina	Х	У.	x	x	х	<u>^</u>					 	1	 				r^+	
yllis regulata	 		 ^- -	X		 					 		 					
xogene dispar			x	x		x	x						x			х	х	
xogene A			 ^- -	<u> </u>			^			-		 	1			^	x	_
phaerosyllis pirifera			x	x	Х	x		 -			 	 	 				X	
vilid A		^	 -^-	<u> </u>		<u> ^</u> -		 	х		 	╁	 				^	
eratocephale B				\vdash		_	 	 		x	x		 					
ebsterinereis tridentata			 	├						x	x		 	x	Х	х		
eanthes B			 	-					 	x	 ^	 	 	X	1			
glaophamus circinata		-	┼─				-		x	1		 	-	1				
aralacydonia paradoxa			 	 			 	x	x		1							
lycera papillosa			+	x		x	-	1	^	-	 	 	 					
lycera capitata	+	x	x	x	x	x	x	-	 		-	 	+-				х	
oniada teres	 ^ -		┼^	 ^- -		<u>^</u>	<u> </u>	х	 	}	├	 	+-			 		
oniada littorea		x	x	x	-		-	x			+	 	\vdash	-		-		
inice vittata	-	<u>^</u>	+^-	 ^- -			x	1			 	 	x		 			
auphis A	 ^		┼				<u> </u>	 	x	 	 	1	 ^-					
umbrineris parvipedata	$\frac{1}{x}$		 -	├	-		 	 	<u> </u>	x	x	x	$\frac{1}{x}$	x				
ambrineris cruzensis	 ^ -		┼	 	-			 -	 	<u> ^-</u>	 ^ -	1^-	1^	^	 		-	$-\mathbf{x}$
cotodorvillea kefersteini			┼─	┼	-			 		 	┼	-	┼				x	
oio pettiboneae			 	-		x		x	x	 	 	 	+		-		 ^ 	
araprionospio pinnata		x	 	┼	-	^		$\frac{\hat{x}}{x}$	X	x	x	+-	x	x	<u> </u>			
colelepis squamata		<u> </u>	 	 	x	x	 	1	<u> </u>	 ^	 ^- -	 	1^-	<u> </u>				
cionospio cirrobranchiata	···	<u> </u>	 	 	x	x	X	x		 	 	 	+	-				\neg
rionospio cristata		x	x	x	$\frac{\hat{x}}{x}$	x	x		-	 	1	1	x	_	x			
poprionospio dayi		<u> </u>	 ^- -	1	<u> </u>	12	$\frac{\lambda}{x}$	-		 	 	 	+^-		<u> </u>	 		
gospio elegans			├	├		x	 ^	├		├	┼	┼	┼			 		
			├		 -	<u> ^</u> _	 	├		x	┿-	 -		 				
agelona pacifica			┼─	 			 	 		$\frac{\lambda}{x}$	x		 	-		 		
agelona B becilochaetus johnsoni		 -	 	┼	 	├				 ^-	 ^-	├	┼				\vdash	
			├		-		 	 		 	┼	X	┼				\vdash	
naryx annulosus			+		-	-		 	-	-	 	X	┼		 	-	\vdash	
naryx marioni		 	 	 	-		 	X	X	-		X	+-	 			\vdash	
naryx setigera		-	 		-	 		-		 	1.	X	+	├			┝╌┤	
ossura A			·	-			 -	X	<u> </u>	X	X	X	 		<u> </u>	-		
uploscoloplos foliosus			 	 		 	 		X	 	1-	╂	 -					
irrephorus lyriformis		<u> </u>			<u> </u>	 	 	ļ	X	 	 	 	┼	 	-			
ricidea fauveli		L	1	<u></u>		<u> </u>		<u></u>	<u> </u>	<u> </u>	L			<u></u>	х	X		

Table 6. (Continued)

n Species/Station	2528	2529	2530	2531	2532	2533	2534	2535	2536	2637	2638	2639	2640	2641	2642	2643	2644	2645
Aricidea fragilis																	<u> </u>	
Aricidea suecica									х	<u> </u>						x	<u> </u>	x
Aricidea jeffreysii															<u> </u>	х		
Aricidea wassi															Х			
Paraonis gracilis					х	х								Х	x			<u> </u>
Paraonides lyra										<u> </u>	_				<u> </u>	У.	X	<u> </u>
Aedicira belgicae									x			x	ļ	x	X_	<u> </u>	ļ	<u> </u>
Armandia maculata										X			X.	<u> </u>	<u> </u>			<u> </u>
Medicmastus californiensis		<u></u>			<u> </u>		<u> </u>		<u> </u>			У.	X	х	x	<u> </u>	<u> </u>	<u> </u>
Asychis carolinae					<u> </u>		<u> </u>		<u> </u>		x		ļ	L	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Samythella eliasoni							<u></u>			<u> </u>		<u> </u>		х	<u> </u>	X.	X	
Ampharete A																x	x	x

A detailed review of polychaete affinities is not warranted at this time.

Problems with computation of the indices used to describe assemblages, and inconclusive data (except as noted in Table 6), preclude effective analysis.

Polychaete-Sediment Relationships

Statistical analysis of key population and sediment information has provided insight into animal-sediment relationships in the MAFLA area. As stated earlier, sediment particle size did not vary regularly with depth (Table 1). The regression of mean phi on depth was not significant (b=0.003); p>0.10).

Significant patterns were found in the relationship between species diversity (H') and mean phi. The following regressions were estimated:

June b = -0.256; p<0.05

September b = -0.346; p<0.05

January b = -0.410; p < 0.01

The change in slopes of the regression lines is systematic and thus, interesting. Part of the change can doubtless be attributed to the decrease in H' with season (Table 4). Although mean phi values did not appear to have changed drastically, the slight decrease in mean particle diameter before the September sample period may account for some of the increase in slope of the regression of H' on mean phi. This would reinforce the statement that H' is affected by sediment particle size: in fact, H' decreases as mean particle diameter decreases.

DISCUSSION

There are four general areas of interest in the data presented. These are: animal-sediment relationships; seasonal effects on polychaetes; effects of hurricanes on the benthos; and the rate of polychaete recruitment after

perturbations have occurred. These are obviously interrelated to some extent, but will be discussed independently where possible, because of their important implications for assessing the impacts of oil exploration and exploitation on the benthos.

Animal-sediment relationships have been well-described for many areas.

Examples include reviews by Jones (1950) and Thorson (1957), studies by Sanders (1956, 1958) in Buzzard's Bay, Lie (1968) in Puget Sound, Nichols (1970) in Port Madison, Washington, Boesch (1972) in Virginia, Vittor (1976) in the northeastern Gulf of Mexico, and many others.

In this program, the importance of the effect of particle size on species diversity lies in possible changes in sediments as a result of oil well drilling and operation. Even a gradual decrease in mean size may cause a decrease in polychaete diversity, and probably in abundance as well.

Seasonal changes in water mass characteristics (current direction, temperature and turbidity especially) can also be expected to impact polychaete diversity and abundance. Most of this effect at Transects V and VI appears to be related to the availability of larvae for recruitment into the community. Thus, temperature changes could cause death of some species, but most likely would have the greatest impact on reproduction of existing adults.

Because of the temporal limitations of this program (primarily the lack of a September, 1976 sample), we cannot distinguish between seasonal and hurricane effects on benthic polychaetes in this area. Hurricane ELOISE appears to have caused changes in surficial sediments, especially along Transect V, but both the Mississippi-Alabama Shelf and the West Florida Shelf are described as unstable sedimentologically (L. Doyle, personal communication). Hence, it is difficult to attribute any changes in surface sediments to hurricane activity: such changes may normally occur in response to severe fall and winter storms.

An argument against the preceding statement exists in the significant recovery of populations by January, despite extremely severe storm activity immediately before (and during) that sampling cruise. Polychaete populations appeared to have recovered very rapidly after the September low. Whether full recover of diversity occurred remains to be seen (assuming that peak levels are reached during early summer).

Should sediments be disrupted by oil well activity, then, polychaete populations may decline significantly, but may also recover swiftly, if the sediments themselves revert to essentially normal conditions (assuming no chemical changes).

CONCLUSIONS

The findings of the 1975-76 benthic polychaete program for Transects V and VI can be summarized as follows:

- 1. The numbers of species and individuals differed, with respect to both season and location. September values were generally lowest for both parameters, while stations with fine sediments supported fewest species and individuals.
- 2. Polychaete wet weight biomass estimates also varied with season and location (sediment type). Seasonal and sediment effects were the same as for numbers of species and individuals.
- 3. Species diversity and evenness were highest during June. The decrease in H^{\bullet} and H_{max} in September coincided with decreases in species and individual abundance.
- 4. Dominant species are distributed according to sediment type and geographical location. Family groupings show the same patterns.
- 5. Species diversity decreases as mean sediment particle size decreases, regardless of season or geographical location.

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APPENDIX A

List of Polychaetous Annelids from MAFLA Transects V and VI

Family: Aphroditidae

Aphrodite Sp. A

Family: Polynoidae

Antinoella angusta
Antinoella sarsi
Harmothoe imbricata
Lepidasthenia maculata
Lepidonotus sublevis
Lepidonotus variabilis

Family: Polyodontidae

Eupanthalis kinbergi Polyondontes lupina

Family: Eulepethidae

Grubeulepis fimbriata Grubeulepis mexicana Grubeulepis sulcatisetis

Mexieulepis weberi

Family: Sigalionidae

Euleanira ehlersi Euthalanessa Sp. A Leanira n. hystricis

Pholoe minuta

Psammolyce ctenidophora

Sigalion arenicola Sthenelais boa Sthenelais limicola

Family: Chrysopetalidae

Bhawania goodei

Paleanotus chrysolepis Paleanotus heteroseta

Family: Euphrosinidae

Euphrosine Sp. A

Family: Amphinomidae

Amphinomid Sp. A Chloeia viridis Chloeia englochis

Paramphinome pulchella Pseudoeurythoe n. ambigua

Family: Pisionidae

Pisione remota

Family: Phyllodocidae

Anaitides groenlandica
Anaitides panamensis
Eteone heteropoda
Eteone lactea
Eteone Sp. A
Eulalia bilineata
Eulalia sanguinea
Hesionura elongata
Lugia rarica

Mystides Sp. A
Paranaitis speciosa
Phyllodoce castanea
Phyllodoce tubicola
Protomystides bidentata

Family: Pilargidae

Ancistrosyllis jonesi

Otopsis Sp. A
Pilargis pacifica
Sigambra tentaculata
Synelmis albini

Family: Hesionidae

Gyptis vittata Hesionella Sp. A Hesionid Sp. A Kefersteinia cirrata

Nereimyra Sp. A
Parahesione luteola

Podarke agilis

Podarke berrisfordi Podarke obscura

Family: Syllidae

Autolytus prolifer Autolytus Sp. A Brania clavata Brania pusilla

Eurysyllis tuberculata Eusyllis lamelligera

Eusyllis Sp. A
Exogene dispar
Exogene gemmifera
Exogene Sp. A
Odontosyllis Sp. A
Odontosyllis fulgarans
Pionosyllis uraga

Sphaerosyllis pirifera Syllis alternata

Syllis n. armillaris Syllis cornuta Syllis ferrugina Syllis gracilis Family: Syllidae (continued)

Syllis hyalina
Syllis prolifera
Syllis regulata
Syllis spongicola

Trypanosyllis ankyloseta Trypanosyllis prampramensis

Trypanosyllis sebra

Family: Sphaerodoridae

Ephesiella claparedii

Sphaerodoridium benguellarium

Family: Mereidae

Ceratocephala Sp. B Ceratonereis irritablis Ceratonereis mirabilis Ceratonereis versipedata

Neanthes Sp. A Neanthes Sp. B Nereis falsa Nereis grayi Nereis riisei Nereis Sp. A

Websterinereis tridentata

Family: Nephtyidae

Aglaophamus circinata Aglaophamus verrilli Micronephtys Sp. A Nephtys bucera Nephtys picta Nephtys squamosa

Family: Paralacydoniidae

Paralacydonia paradoxa

Family: Glyceridae

Glycera americana Glycera capitata Glycera longipinnis Glycera oxycephala Glycera papillosa Glycera tesselata Hemipodus roseus

Family: Goniadidae

Glycinde nordmanni Goniada littorea Goniada norvegica Goniada teres

Goniadella gracilis Progoniada regularis Family: Eunicidae

Eunice antennata
Eunice indica
Eunice kinbergi
Eunice siciliensis
Eunice vittata
Eunice websteri
Eunice Sp. A

Lysidice ninetta collaris Lysidice ninetta ninetta Marphysa sanguinea

Mematonereis unicornis

Family: Onuphidae

Diopatra cuprea cuprea

Diopatra cuprea spirobranchus

Diopatra n. dubia Epidiopatra papillosa Leptoecia Sp. A

Onuphis conchylega
Onuphis eremita

Onuphis holobranchiata

Onuphis magna

Onuphis microcephala
Onuphis nebulosa
Onuphis pallidula
Onuphis Sp. A

Paraonuphis antarctica

 ${\it Rh}$ amphobranchium atlanticum

Family: Lysaretidae

Lysarete brasiliensis

Family: Lumbrineridae

Lumbrineris aberrans Lumbrineris albidentata

Lumbrineris bassi
Lumbrineris coccinea
Lumbrineris cruzensis
Lumbrineris erecta
Lumbrineris impatiens
Lumbrineris inflata
Lumbrineris latreilli
Lumbrineris paradoxa
Lumbrineris parvipedata
Lumbrineris tenuis
Lumbrineris tetraura
Lumbrineris Sp. A

Ninoe nigripes

__

Family: Arabellidae

Arabella iricolor Arabella mutans Arabellid Sp. A Drilonereis filum Drilonereis longa Drilonereis magna Notocirrus Sp. A

Family: Dorvilleidae

Dorvillea caeca
Dorvillea neglecta
Dorvillea rubrovittata
Dorvillea rudolphi
Dorvillea sociabilis
Ophryotrocha puerilis
Protodorvillea kefersteini

Family: Spionidae

Aonides mayaguezensis Apoprionospio dayi Apoprionospio pygmaea Dispio uncinata Laonice cirrata

Malacoceros vanderhorsti
Microspio pigmentata
Minuspio cirrifera
Minuspio japonica
Minuspio longibranchiata

Nerine agilis

Nerinides tridentata Paraprionospio pinnata Polydora ciliata

Polydora ligni
Polydora websteri
Polydora Sp. A
Polydorella Sp. A

Prionospio cirrobranchiata

Prionospio cristata

Prionospio heterobranchiata

Prionospio steenstrupi

Pygospio elegans
Rhynchospio inflatus
Scolecolepides viridis
Scolelepis squamata
Scolelepis texana
Spio pettiboneae
Spiophanes bombyx
Spiophanes berkeleyorum
Spiophanes wigleyi

Family: Magelonidae

Magelona n. pacifica Magelona pettiboneae Magelona polydentata Magelona Sp. B

Magelona Sp. B Magelona Sp. C

Family: Poecilochaetidae

Poecilochaetus johnsoni Poecilochaetus serpens

Family: Chaetopteridae

Mesochaetopterus n. capensis Phyllochaetopterus Sp. A Spiochaetopterus oculatus

Family: Cirratulidae

Caulleriella killariensis

Chaetozone gayheadia
Chaetozone setosa
Cirratulus hedgpethi
Dodecacaeria concharum
Tharyx annulosus

Tharyx annulosus Tharyx marioni Tharyx setigera

Family: Cossuridae

Cossura delta

Cossura Sp. A

Family: Orbiniidae

Haploscoloplos foliosus Haploscoloplos fragilis Haploscoloplos robostus

Orbinia americana

Phylo felix

Scoloplos capensis Scoloplos rubra

Schroederella parliani

Family: Paraonidae

Aedicira belgicae
Aricidea fauveli
Aricidea fragilis
Aricidea jeffreysii
Aricidea suecica
Aricidea taylori
Aricidea wassi

Cirrophoris branchiatus Cirriphorus lyriformis Paraonis gracilis

Paraonides lyra

Family: Questidae

Questa caudicirra

Family: Opheliidae

Ammotrypane Sp. A Armandia agilis Armandia maculata

Ophelina cylindricaudata

Ophelina Sp. A

Polyophthalmus translucens

Travisia forbesii Travisia Sp. A

Family: Scalibregmidae

Asclerocheilus Sp. A
Hyboscolex longiseta
Paraschlerocheilus Sp. A
Scalibregma inflatum
Scalibregma Sp. A
Sclerocheilus oculatus
Sclerocheilus Sp. A

Family: Capitellidae

Capitella capitata
Capitellid Sp. A
Leiocapitella glabra
Leiochrides pallidior
Mediomastus californiensis
Notomastus americanus
Notomastus hemipodus
Notomastus latericeus

Family: Maldanidae

Asychis carolinae
Asychis elongata
Asychis Sp. A
Axiothella mucosa
Clymenella torquata
Euclymene delineata
Euclymene lumbricoides
Euclymene oerstedii
Euclymene Sp. B
Macroclymene zonalis
Praxillella elongata
Praxillura ornata

Family: Oweniidae

Myriochele bioculatum Owenia fusiformis

Praxillura Sp. A

Family: Flabelligeridae

Diplocirrus capensis Pherusa ehlersi Pherusa inflata Family: Sabellariidae

Lygdamis Sp. A

Sabellaria vulgaris vulgaris

Family: Pectinariidae

Cistenides gouldii

Lagis Sp. A

Pectinaria koreni koreni

Family: Ampharetidae

Amage auricula

Ampharete acutifrons Ampharete americana Ampharete parvidentata

Ampharetid Sp. A
Amphicteis gunneri
Amphicteis Sp. A
Isolda pulchella
Melinna maculata
Samythella eliasoni

Family: Terebellidae

Amaeana accraensis Amaeana trilobata Loimia viridis Loimia Sp. A

Pista brevibranchiata

Pista cristata
Pista macrolobata
Pista palmata
Pista quadrilobata
Polycirrus caroliensis
Polycirrus n. eximius
Telothelepus Sp. A
Thelepus setosus

Family: Trichobranchidae

Terebellides stroemi Trichobranchus glacialis

Family: Sabellidae

Chone duneri
Desdemona Sp. A
Euchone incolor

Fabricia n. atlantica
Hypsicomus elegans
Hypsicomus Sp. A
Jasmineira bilobata
Jasmineira caudata
Megalomma bioculatum
Megalomma lobiferum
Megalomma quadrioculatum
Potamilla reniformis

Potamilla spathiferus Sabella melanostigma Sabella microphthalma Family: Serpulidae

Ficopomatus n. macrodon
Hydroides bandaensis
Hydroides crucigera
Hydroides elegans
Hydroides protulicola
Metavermilia Sp. A
Neovermilia capensis
Pomatoceros americanus
Pomatoleios caerulescens
Protula tubularia
Pseudovermilia occidentalis
Serpula vermicularis
Vermiliopsis annulata

APPENDIX B

RECOMMENDATIONS FOR FURTHER STUDY

Particular attention should be given to seasonal changes in polychaete populations in future studies. The most critical sample period, September, has been missed in the 1976-77 program. As a result, only tentative comparisons between the 1975-76 and 1976-77 studies can be drawn.

Polychaete taxonomy must be better-defined. It is apparent that many new species have been identified from the MAFLA area. It is imperative that good scientific descriptions of these forms be encouraged immediately. Future reference to a provisionally-named species will have no meaning to critical reviewers.

Attainment of a catalog of all species identified, and their status, should be a major goal of future programs. Verified species names should be distinguished from provisional names or temporary labels. As species nomenclature is refined, the catalog should be updated, and corresponding changes made in the data base file.

APPENDIX C

PROBLEMS ENCOUNTERED

Most problems encountered during the 1975-76 program can be listed as follows:

- 1. Rough-sorting funds were inadequate for both Transects V and VI (funds were budgeted only for Transect VI);
- 2. Additional time and money was needed for travel to the Smithsonian Institution. The time we spent there last year proved invaluable in accomplishing accurate identifications of species. However, more time was needed but not available, due to limitations of funds.
- 3. Many more species than expected were found in the samples, slowing our progress substantially. Undescribed forms in particular accounted for much lost time.

APPENDIX D

PUBLICATIONS AND WORKS IN PROGRESS

Published papers:

Vittor, B.A. (In Press) Abundance and diversity of polychaetous annelids on the Alabama-Mississippi near Continental Shelf. Proceedings, Florida Academy of Science.

Papers in progress:

- Vittor, B.A., G. Gaston, P. Johnson and J. Uebelacker. Abundance and distribution of polychaetes in the northeastern Gulf of Mexico.
- Vittor, B.A., G. Gaston, P. Johnson and J. Uebelacker. Checklist of polychaetous annelids from the MAFLA program.

CARBONATE SEDIMENT CONSTITUENTS AND MOLLUSCAN LITHOTOPES ON THE MAFLA CONTINENTAL SHELF

University of Miami, Rosenstiel School of Marine and Atmospheric Science

Principal Investigator:
Harold R. Wanless

Associate Investigator:
Jeffrey Dravis

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Carbonate Sediment Constituents
by
Harold R. Wanless and Jeffrey Dravis

INTRODUCTION

During the past two years, the surface sediment from the 108 box coring stations taken on the continental shelf of the eastern Gulf of Mexico have been analyzed by the authors for carbonate and biogeneous constituent composition. The goals of this study were to analyze the sedimentary constituents in a manner and a detail that would permit a) utilization of sedimentary attributes to help interpret the biological and physical processes influencing and controlling the benthic habitat and substrate dynamics and b) characterization of the critical substrate attributes most responsive to the biological communities and bottom physical processes.

Previous research provides a general framework of the carbonate sediment environments of the MAFLA shelf. Ludwick (1964) mapped general surface sediment facies between the Mississippi River Delta and Cape San Blas. This provides little information on carbonate sediment constituents, but recognizes a long carbonate-rich deep reef (sandy) and inter-reef (muds and sands) facies towards the shelf margin south of the Mississippi-Alabama zone (Figure 1. To the west of DeSoto Canyon, he terms the equivalent depth zone as western Florida lime mud facies, in which are dispersed pinnacle and other positive zones considered to be reefal. He concluded that the western Florida lime mud facies was of broader seaward extent than the Mississippi-Alabama reef and inter-reef facies and was muddier, had smaller median grain size and contained significantly less terrigeneous material.

Ludwick defines two sand facies on the northeastern shelf section.

Mississippi-Alabama sand facies occurs in 12-80 m of water to the west of

DeSoto Canyon, and the Cape San Blas sand facies occurs from nearshore to the 50 to 100 m contour. Both facies contain from 10-90% shell debris of coarse sand to granule sizes. Average carbonate content of the western sand is seven percent; of the eastern is ten percent.

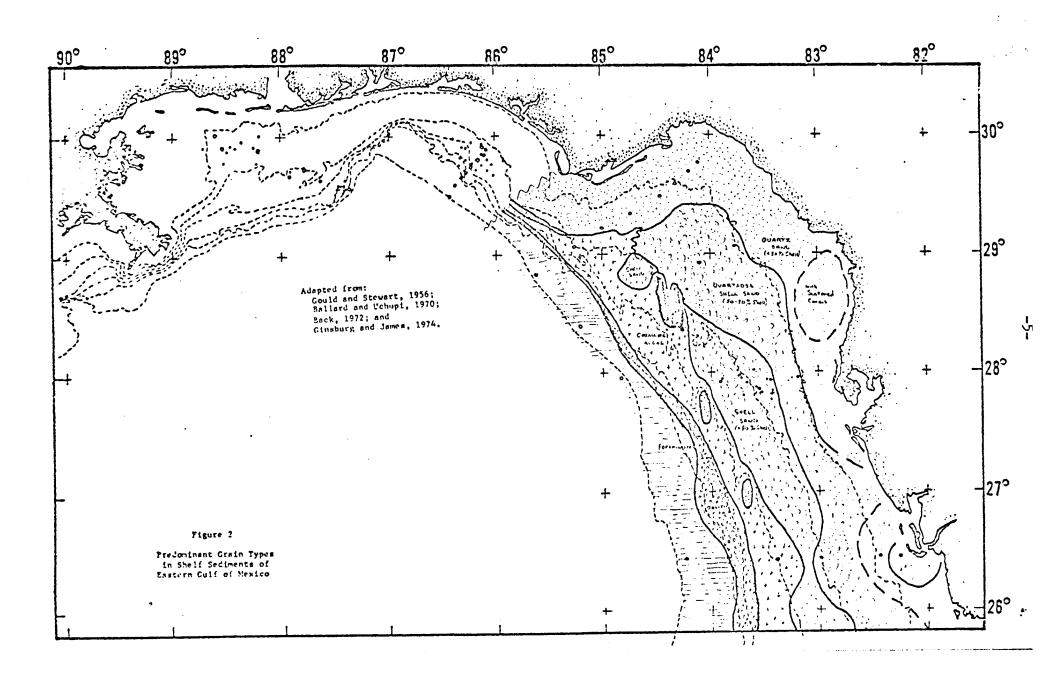
Ludwick defines a broad crescent-shaped transitional zone between the Cape San Blas sand facies and the western Florida lime mud facies. This is, as shown by this study, a most complex zone of carbonate-rich sediments, which is in part equivalent to the coralline algae and oolitic zones of Gould and Steward (1956) to the southeast.

Gould and Stewart (1956) classified the western Florida shelf sediments in terms of dominant constituent composition. They recognized six general zones lying roughly parallel to the coastline. These are, from landward to seaward: shelly quartz sand, quartzose shell sand, shell sand, algal sand, colite sand, and foraminiferal sand and silt (Figure 2). They describe the algal sand as comprising lithothaminoid clumps, which in many places form "a continuous blanket over the bottom" (ibid, p. 9) and in several areas cap rocky mounds or pinnacles rising over ten meters above the bottom. They noted that in water deeper than 60 m only dead, weathered coralline algae was recovered.

The oolitic zone, in which ooids make up over 50% of the sediment, is a broad zone in the south between 80 and 110 m in depth. North of 27°30' the oolitic zone narrows to a few kilometers in width. It is not mapped north of 28°30'.

Back (1972) provides considerably more detail as to the character of carbonate sedimentation in the vicinity of the Florida Middle Ground and

indicates the complexity of distribution of carbonate sediment-producing organisms and resultant sediments.



METHODS

Sieved sediment samples from 1974 box coring stations (#1-65), 1975 box coring stations (#2101-2645) and eight 1975 dive stations (#047-A-40 to 251-A-1)were received from Dr. L. Doyle for carbonate fraction description and constituent composition analysis. Samples received are as follows:

Source	Sample Sequence	Excluding	Number of Samples
1974 box core	1A-65A	32, 43, 49, 51 54, 58, 59	58
1975 box core	2101-2145	2210, 2314, 2315	42
1975 dive	047-A-40 062-A-1 064-B-1 146-B-15 147-B-11 151-A-1 247-B-1 251-A-1		8
			ma+a1 100

Total 108

Each sample had been separated by dry sieving into the following six size fractions: >2000 μ m, 2000-1000 μ m, 1000-500 μ m, 500-250 μ m, 250-125 μ m, and 125-62 μ m. The less than 62 μ m fraction was retained at Dr. Doyle's laboratory. Weight per cent determinations of the sample fractions were provided by Dr. Doyle for use in calculations of carbonate constituent results. Loose Grain Analysis

For each size fraction of each sample, the following descriptions and analyses were made by examination under binocular microscope:

- 1) General color of sediment in each size fraction;
- 2) General characterization of sediment type (dominant constituents) in each size fraction;

- 3) Description of the major carbonate grain types in each size fraction including:
 - a) surface texture (fresh, worn, corroded, encrusted, dull, frosted, pitted, smooth, shiny);
 - b) degree of fragmentation (whole, chipped, fragmented);
 - c) presence of sediment infilling of grains;
 - d) color of grains if at variance with general color of sediment (blackened, tan, brown);
 - e) consistency of unidentified and non-skeletal grains (friable, lithified);
 - f) probable grain type classification of majority of unidentifiable grains (based on size, shape, color and surface texture relations with identifiable grains in that fraction);
 - g) general description of non-carbonate portions of each size fraction.
- 4) Grain count of constituent types in each size fraction. Where sufficient number of grains were present, at least 300 carbonate grains were identified. Where less than 300 carbonate grains were present, the total number of grains were identified. Concurrent count of non-carbonate grains was made.

The following skeletal grain types were differentiated:

- a) Mollusc
- b) Benthic Foraminifera
- c) Pelagic Foraminifera
- d) Halimeda
- e) Echinoderm

- f) Ostracod
- g) Sponge Spicule (including opalline silica)
- h) Alcyonarians
- i) Bryozoan
- j) Coralline Algae
- k) Coral
- 1) Tubes

The following non-skeletal and other grain types were differentiated:

- a) Pellets (whole, ovoid, friable aggregate grains of very probable fecal origin);
- b) Intraclasts (rounded to angular, irregular, friable aggregates of finer carbonate and non-carbonate particles);
- c) Carbonate Rock Fragments (well-lithified carbonate grain aggregates);
- d) Blackened Carbonate Grains (unidentifiable skeletal or non-skeletal carbonate grains with blackish color).

Classified under the heading "unidentifiable carbonate" grains are those skeletal and non-skeletal grains that could not be given certain classification as to origin in loose grain analysis.

Other possible types (ooids, pteropods, diatoms, and radiolarians) were not observed in loose grain analysis.

Calculations from loose grain counts are explained in Figure 3 using sample 2423 as an example. Data are presented in Appendices I and II.

Thin Section Analysis

A number of samples contained over 20% grains that had to be classified as "unidentifiable carbonate" in loose grain analysis. Petrographic thin

sections were first made of representative size fraction(s) from these samples and analyzed under petrographic microscope to assess the origin of these grains. The 500-250 µm fraction was generally used as representative. Grains were first impregnated in polyester resin under vacuum which was then cut into chips and thin sections. Before covering, a part of each thin section was stained with clayton yellow to differentiate high magnesian calcite (stains red) from other calcium carbonate.

Because of the valuable information being derived from these thin sections, thin sections are now being prepared of representative or critical size fractions from all sample stations. These will be reported on at a later time.

Coarse Fraction Analysis

The bags of sediment passed on to this laboratory from the benthic biology program contained all the non-living material retained on a 500 μm Nytex screen from the box core sample. As the regular constituent composition analysis generally contained too few grains (<300) in the greater than 1000 μm fractions, the 1000-2000, 2000-4000 and greater than 4000 fractions of these large samples were analyzed for loose grain constituent composition. Results are presented in Appendix III. As these samples are from different sample depths and commonly from different box cores than the regular analyses, no attempt has been made to integrate the two data. It does, however, provide a critical and statistically significant guide to substrate characterization.

< 62 4

O	GRANS COUNTS	/5	\ 5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						THO SE		Rt S	OHSE AL	OILEN	A OZORI		2. R. / (1)		REC'NS		STREET STREET	Ti Ch		idis/	AHRONA A	LIPILITY TO	
لہ	4000-2000	209	-	-	-	4	s	2	-	-	-	-	4	-	-	-	,	3	-	231	-	231				
(1)	2000-1000	261	-	-	-	"	37	2	-	-	-	-	7	-	-	-	-	2	-	330 350	27.	774				
FRACTIONS	1000-500	135	6	-	-	2.5	48	3	-	-	-	-	8	-	-	· -	3	1	-	321	43	372				
ACT	500-250	193	9	-	-	47	33	7	-	3	-	-	2	-	-	-	٦	3	-	339	51	360				
- 1	250-125	137	34	3	-	61	26	30	2	4	-	-	,	-	-	-	12	-	-	320	93	703				
SIZE	125-62.5	105	15	5	-	8c	17	30	-	2	1	2	-	-	-	-	35	-	-	306	162	468				

	G LEASER THE	αωι	mua	nce i	Con	s! duew	: (ພ,	the res	pect T	e tota	dear	bonute	2 in s	12.e. f	ractio	√) K	ESULTS	For	EACH	SAM	pre Hi	E IN	GPP = N	ion I	
_1	4000-2000	95.5	-	-	-	1.7	3.5	0.4	-	-	-	_	1.7	-	-	-	0.4	1.3	-				lee	۰	1887
SIZE FRACTIONS (41)	2000-1000	3 5	-		7	3.3	11.9	۵.6	-	-	-	-	1.2	-	1	-	-	0.6					35 973	1.2	20.27 20.27
	1000-500	715	1.9	-	1	7.6	146	6.9	-	,	-	•	1.4	1	1	-	6.9	o.3	_				88.4	11.5	2192
	500-250	لإدعا	2.8	-	-	15:2	17.5	1.3	1	1.0	-	1	0.6	1	-		2.3	1.0	-				95.8	14.2	12.69
	250-125	w; 5	15.6	09		19.1	8.1	9,4	۵,6	1.3	•		0.3	-	_	-	6.9	-	-				75.4	10.5	5 4~
	125-62.5	37.3	1.2	1.4	-	26.1	5.4	१९	-	0.57	0.7	0.7	-	-	-	~	12.4		-				654	34'5	2.83
	$\Sigma \% > 62.5$																								333

D = Percent of carbonate in size fraction (volume) = A+B x100

E = Percent of constituent in size fraction, as percent of carbonale (bolume) = & x100

F = Weight percent that size fraction is of tinal sample Duta provided by L Doyle.

< 62 4

188

255

110

1.13

Loz

80.0

0.17

0.25

0.30

0.24

0.13

0.06

0.11

@ Constituent	auga	DAIXE	Summ	neD c	over(Saud	FRACT	, wo	= *PRE1	ued A	5:		٠	(Re	ろひんてろ	For l	EACH	Sanipe	6 Ya•	In An	(g) 	93.12
PERCENT STORM SANNE	(E),	, 59	زدء	~	6 43	7.65	1.32	0.03	0.18	0.01	0.01	1.33				1.04	0.5 5				7/ 1/2	
PERCEUT & SAND FRIALTION	20112	' 55	9.98	-	659	9,22	1.51	004	0.12	0.01	0.01	1.60	-			1.25	0.66	_	 		सरा	
Panesur of Customer	(5) 75 % k	160	000	-	7.17	10 03	1.73	0.64	0.17	0.01	001	1.74	-	-	-	1.36	0.72	-				

0.01

0.01

G = Percent carbonate in size fraction, as percent of total sumple = DxF

H . Percent of constituent in size fraction, as percent of total sample = Exc

N = Percent of constituent in sand fraction, as percent of total sample = H+I+J+K+L+M

Q = Percent of carbonate in sand fraction as percent of total sample

P = Percent of Sand fraction, as percent of whole sample

0.34

0.6

1.66

0.23

6.51

247

2.33

1.34

0.35

0.11

0.17

0.25

0.41

0.19

0.03

0.06

0.01

G CONSTITUENT ABUNDANCE IN EACH SIZE FRACTION, AS PERCENT OF TOTAL

4000-2000

2000-1000

1000-500

500-250

250-125

125-62.5

X % > 62.5

0.35

0.46

SAMPLE

SIZE FRACTIONS (4)

R = Percent of constituent in sand fraction, as percent of sand fraction = N v D

5 = Percent & constituent in send fraction, as percent of carbonate sand fraction N × 100 = \(\sum \) % > 62.5

RESULTS

The results of loose grain constituent composition analysis are presented in four aspects.

- 1. The upper part of the tables in Appendix I characterizes the carbonate sand and describes the constituent attributes for each size fraction.
- 2. The lower part of the tables in Appendix I documents for each size fraction (a) number of grain counts, (b) the percentage of carbonate and non-carbonate grains, (c) the percentage that each constituent type is of the total carbonate. Appendix III documents this for the coarse fraction analysis.
- 3. Appendix II is a tabulation of the percent abundance of a carbonate sand constituent with respect to (a) the carbonate sand fraction,

 (b) the sand fraction, and (c) the total sample. It should be noted that the calculations leading to those tabulated necessitated combining volume present (grain counts) and weight percent (abundance of size fraction) data. The data is nevertheless highly significant guide to overall abundance of analyzed constituents.
- 4. The series of eleven maps (Figures 4-14) displays the distribution of the overall abundance of the most important carbonate constituents (with respect to the carbonate sand fraction). In areas of close sample spacing, the complexity of the shelf is well documented. The authors have thus used great caution in correlating across unsampled areas. In a few cases, the selected contour boundaries correlated so well with maps by Ludwick (1962), Gould and Stewart (1956), Back (1972)

or the synthesis map of Ginsburg and James (1974) that correlations were considered possible. In other cases, correlations were possible because of the preliminary maps of substrate prepared by the geophysical group. These maps, while accurately relating areas of high and low constituent composition abundance, should be considered preliminary. The authors hope that an interchange of mapped data from other investigators will become available shortly so that we each can blend towards an interdisciplinary broad-based agreement on the distribution of interrelated mappable attributes.

Non-skeletal grain types show a less predictable size distribution. There are commonly less unidentified grains in the finer sand fractions. This is a sharp contrast to the trends of shallow water carbonate sediments in southeast Florida and the Bahamas. The abundance of unidentifiable grains in the coarser fractions appears to reflect more intense rock-boring organism activity into coarser sand grains.

The maps documenting distribution of the carbonate sediment attributes (see Appendix No. IX) summarize most accurately variations between samples and areas. From these maps, three important features stand out:

- 1) In the size fractions greater than 500 µm, there is large variation in grain type abundance between samples that reflect variations in substrate (rock vs. sediment), local abundance of skeletal producing organisms, local fecal pellet production or local intraclast formation. Grouping of these attributes commonly cut sharply across bathymetric contours.
- 2) In the size fractions less than 500 µm, variations between samples

commonly either decrease or display groupings that trend more parallel to the bathymetric contours. These distributions indicate that bottom wave and current energy has been important in redistributing the more transport-prone finer sediment fractions.

3) Weathering characteristics of a grain type display a quite different distribution pattern than the abundance of the associated attribute (see maps of Mollusc and Mollusc Weathering in 2000-1000 µm size fraction, Appendix IX).

AREA I

Carbonate constituents comprise nearly 100% of the coarser than 250 μm sand fractions in Area I (samples 55a to 65a). Terrigeneous material increases in the finer fractions so that the 125 to 62 μm fraction is reduced to 60-80% carbonate.

Sample 55a, from well seaward of the other sample sites, is unique from this area in having: (a) a large percentage of less than 62 μ m sized grains, (b) an abundance of fecal pellet grains (over 30% in the 500-250 and 250-125 μ m fractions), and (c) an abundance of pelagic foraminifera.

Other samples are dominated by molluscs and benthic foraminifera.

Other skeletal grains display a wide variation and show few persistent trends

from sample to sample and in different size fractions.

Samples from Area I contain several grain attributes that provide a striking contrast with samples from Area II. Most striking is the weathering

of coarse skeletal grains. In Area I, for example, coarse mollusc grains are predominantly fresh (unworn), fresh and angularly fragmented, or fresh and physically worn in contrast with the biocorroded and encrusted nature of grains from Area II. Bryozoa, coralline algae, and alcyonarian spicules are in general less abundant in Area I; benthic foraminifera and intraclasts are more abundant in Area I. The percent of the carbonate sand fraction that is greater than 250 µm increases from Area I to Area II (except for samples 62a and 55a).

AREA II

Carbonate sands from Area II are dominated by molluscs, and the coarser skeletal fractions are characterized by moderate to intense biocorrosion and encrustation. Thirty to 97% of the carbonate sand fraction is coarser than 250 µm (except for sample 52a from the southeastern part of the area with 17%). Terrigeneous constituents are more abundant in the less than 250 µm fractions. They constitute less than 15% of these finer size fractions in the southern part of Area II (samples 44a, 45a, 47a, 48a, 52a) and from 20-50% in the northern part.

Coarse skeletal grains vary widely in abundance reflecting marked variations in substrate and skeletal producing benthic communities. Samples from the Middle Ground proper (42a, 46a, 47a, 48a) contain an abundance of bryozoan, echinoderm plate, alcyonarian spicules or sponge spicules and are low in blackened carbonate grains. Certain of these grain types are also abundant in adjacent areas, but blackened carbonate grains increase. Benthic and pelagic foraminifera display wide variation. Although this area is characterized in the literature (Ginsburg and James, 1974) as having sediment

characterized by coralline algae, such fragments are only a very minor grain constituent throughout the area.

AREA III

The most helpful way to understand the marked variations in sedimentary attributes within Area III is to thumb through the maps of sediment attribute distribution in Appendix IX. Four important trends stand out:

- 1) The abundance of carbonate constituents within each sand size

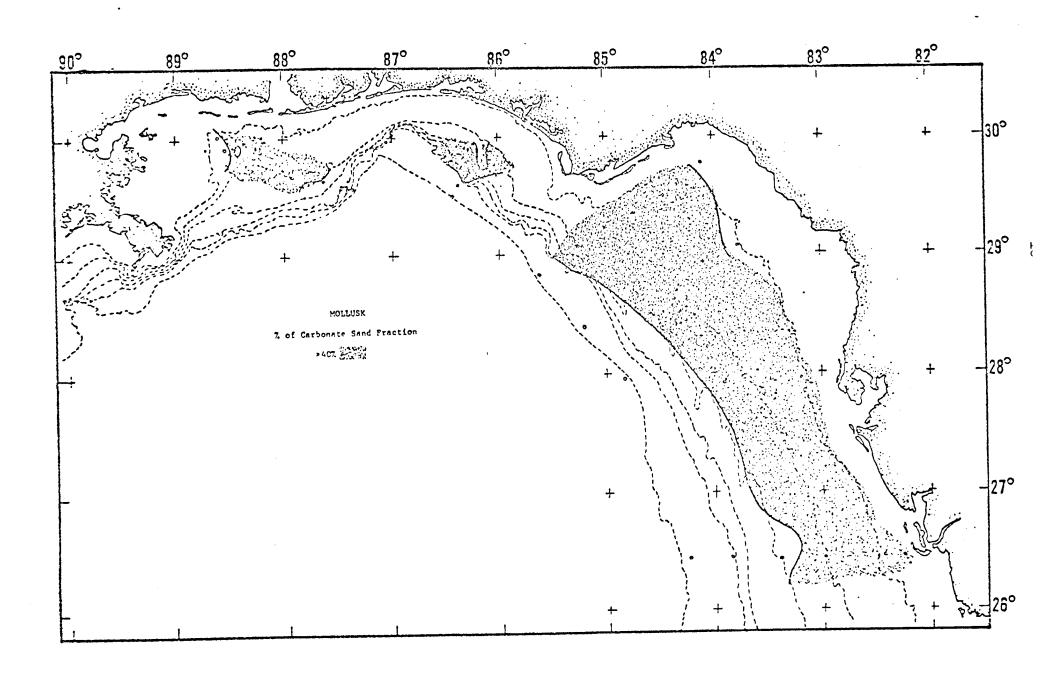
 fraction increases to the west. In the coarser fractions the zones

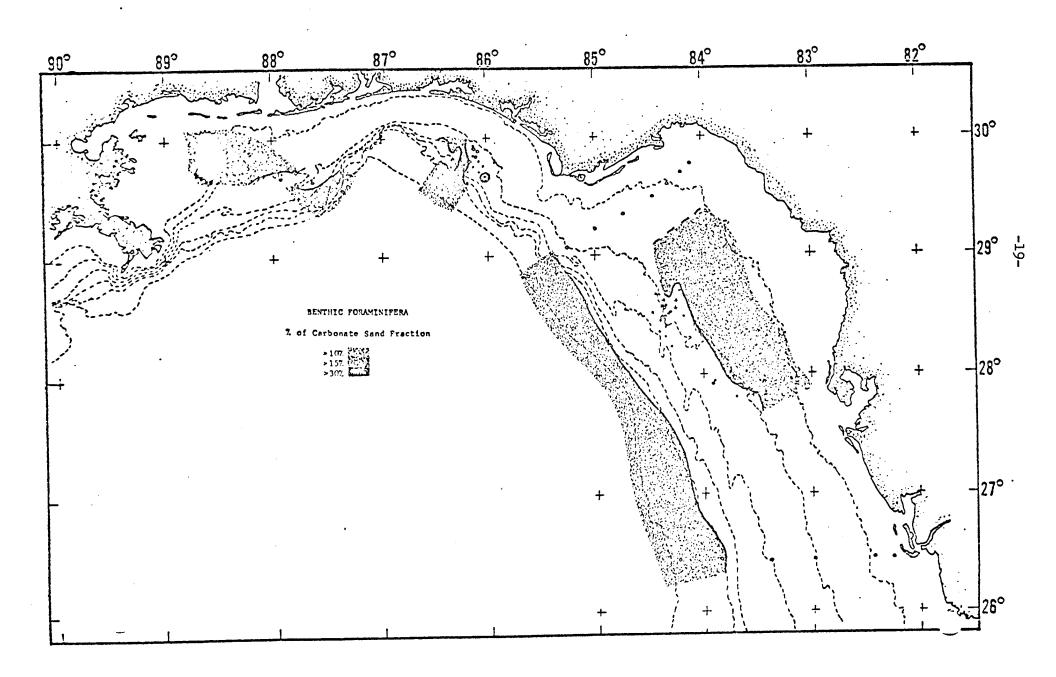
 trend across bathymetric contours. In finer sand fractions, zones

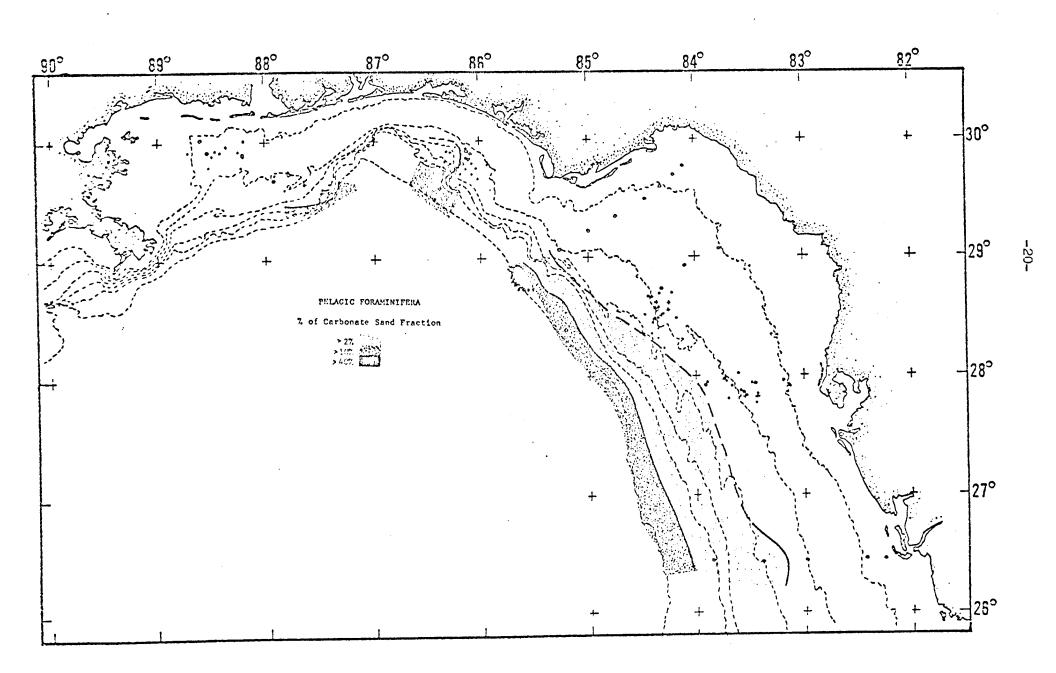
 skew and begin to reflect bathymetric contours.
- 2) Groupings of coarse carbonate constituents trend transverse to bathymetric contours. Specific grouping shifts somewhat from attribute to attribute. Five stations repeatedly stand out as differing from others, samples 23-25 and 27 trending across the central part of Area III and the easternmost sample 41a are characterized by having a small percentage of the carbonate sand fraction greater than 250 µm, having an abundance of mollusc, (fresh and angularly fragmented), echinoid and pellet grains, and a paucity of bryozoan, coralline algae, and blackened carbonate grains.

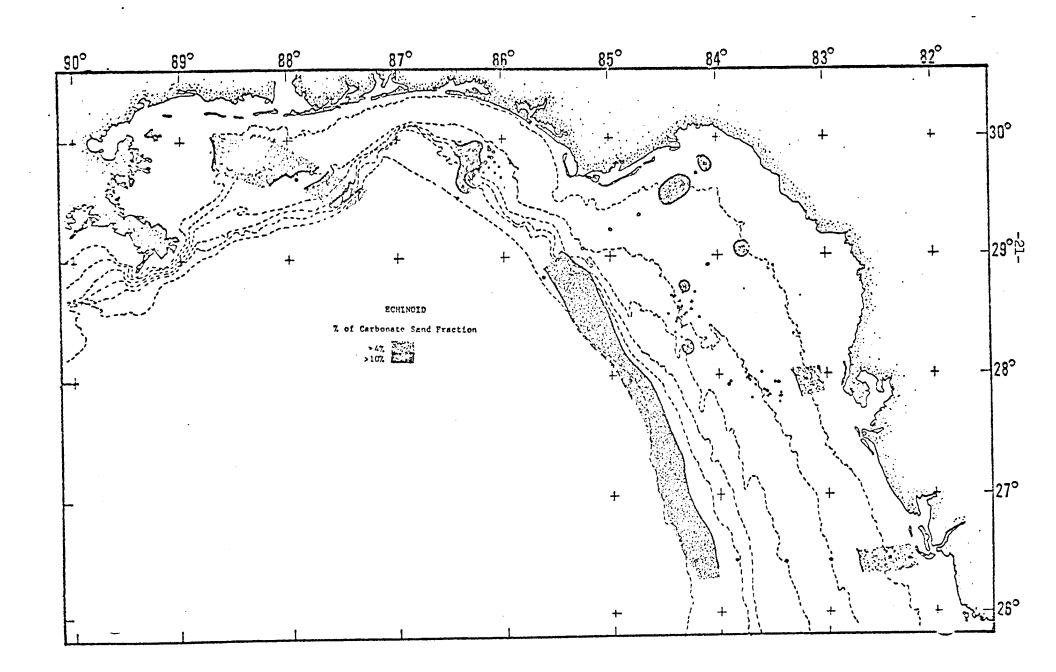
 Stations 25a and 27a, sitting in a slight bathymetric re-entrant, are rich in pelagic foraminifera. Stations 34a-38a are characterized by an abundance of coralline algae grains.
- 3) Groupings of attributes shift markedly in finer sand fractions to essentially parallel bathymetric contours. This is especially apparent in percent carbonate, mollusc, benthic foraminifera, and echinoderm.

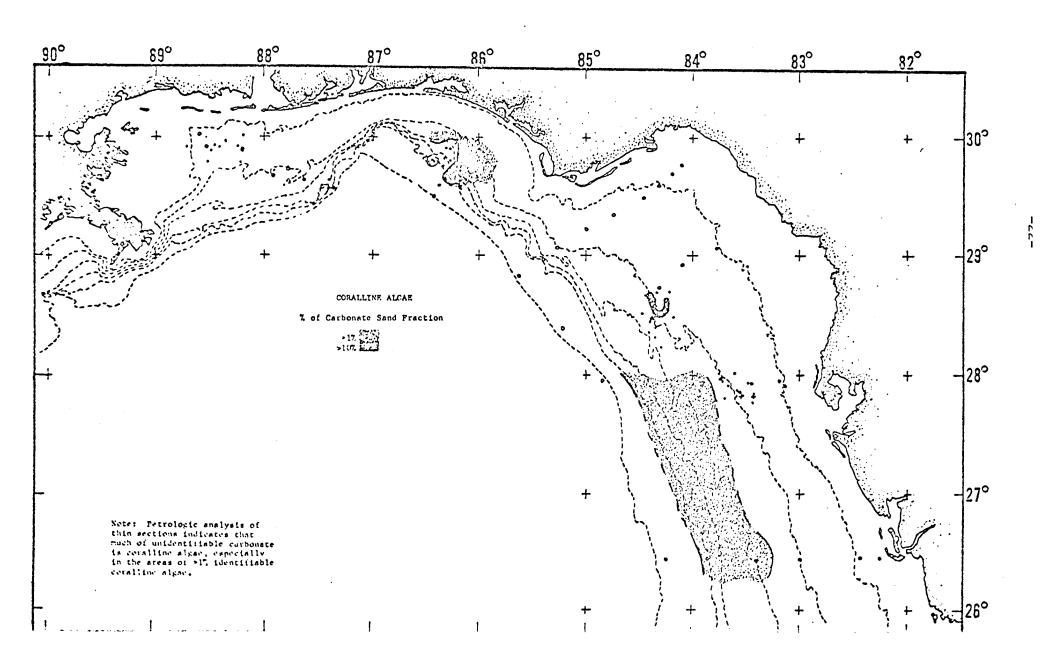
4) Ostracods display a somewhat different distribution pattern, being present towards the west and absent towards the east.

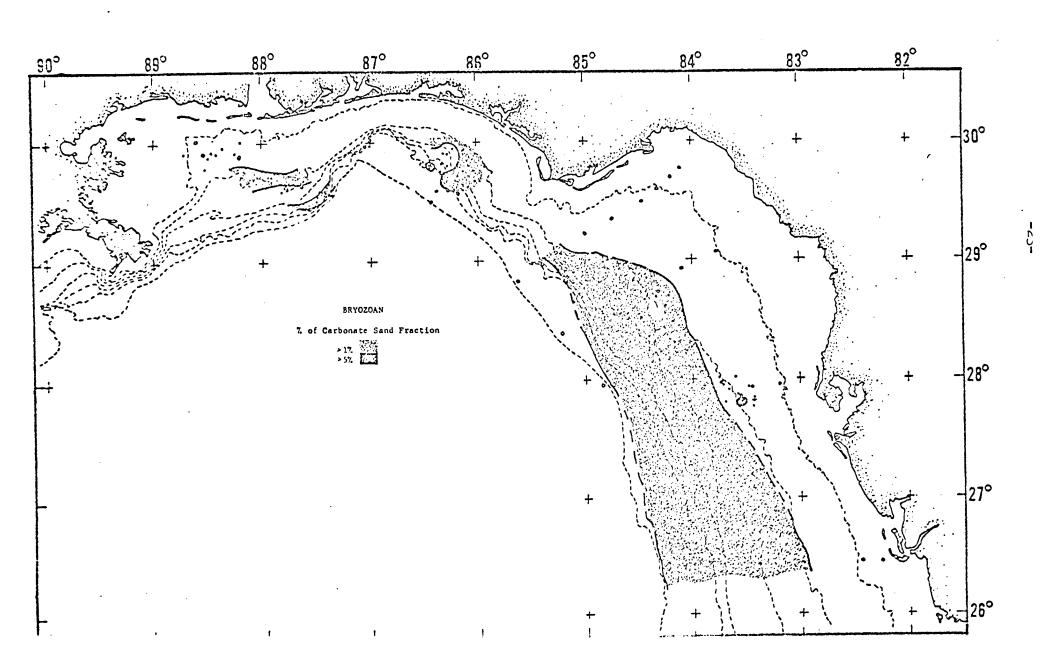


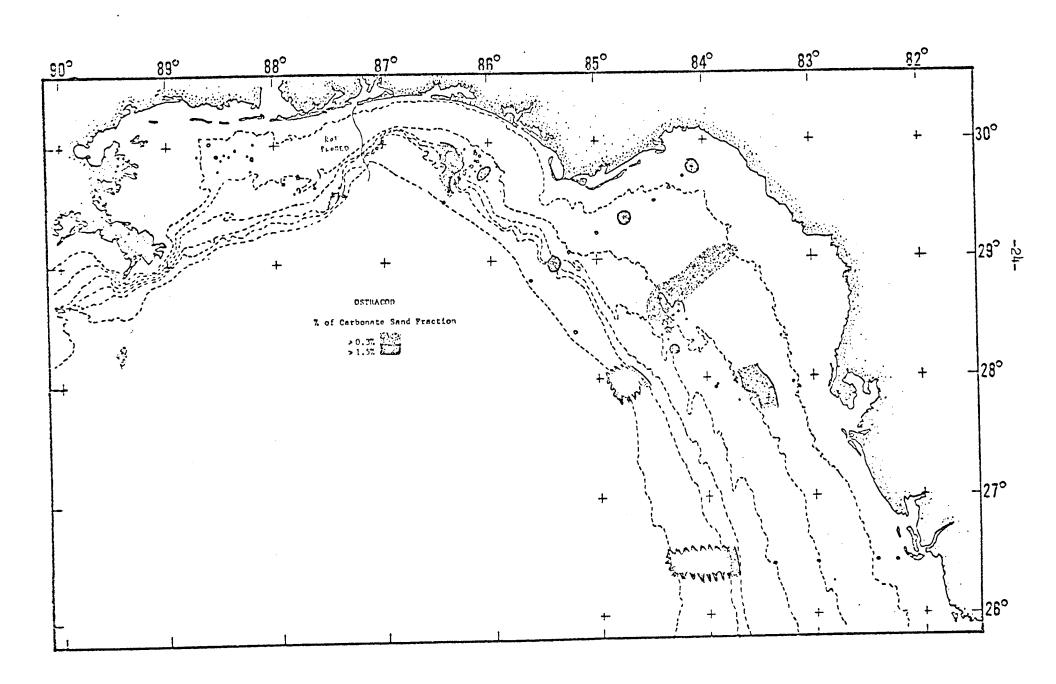


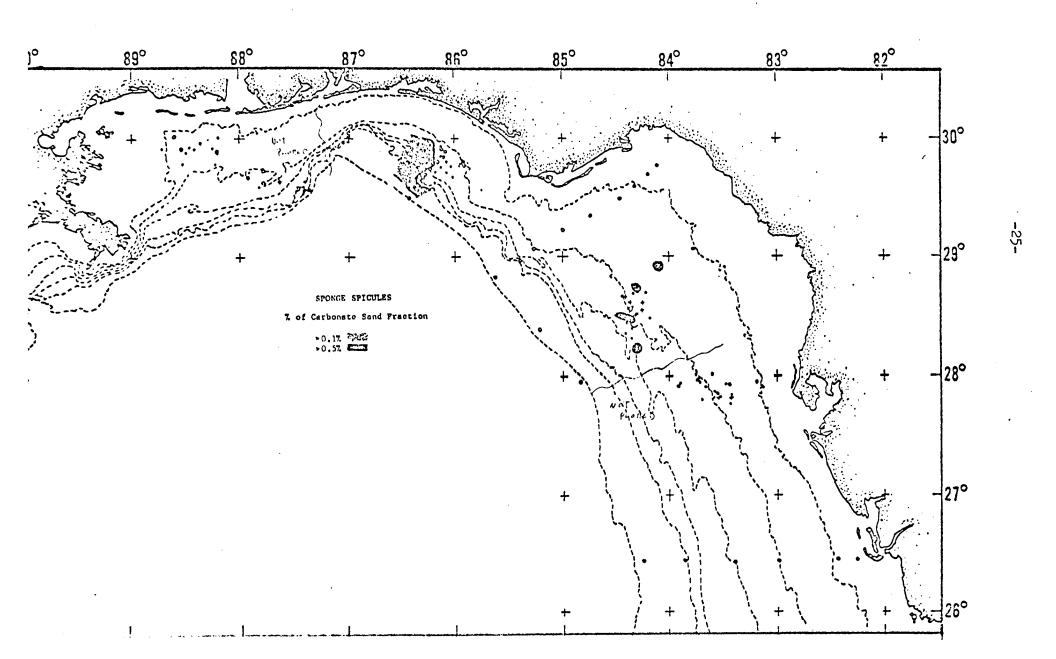


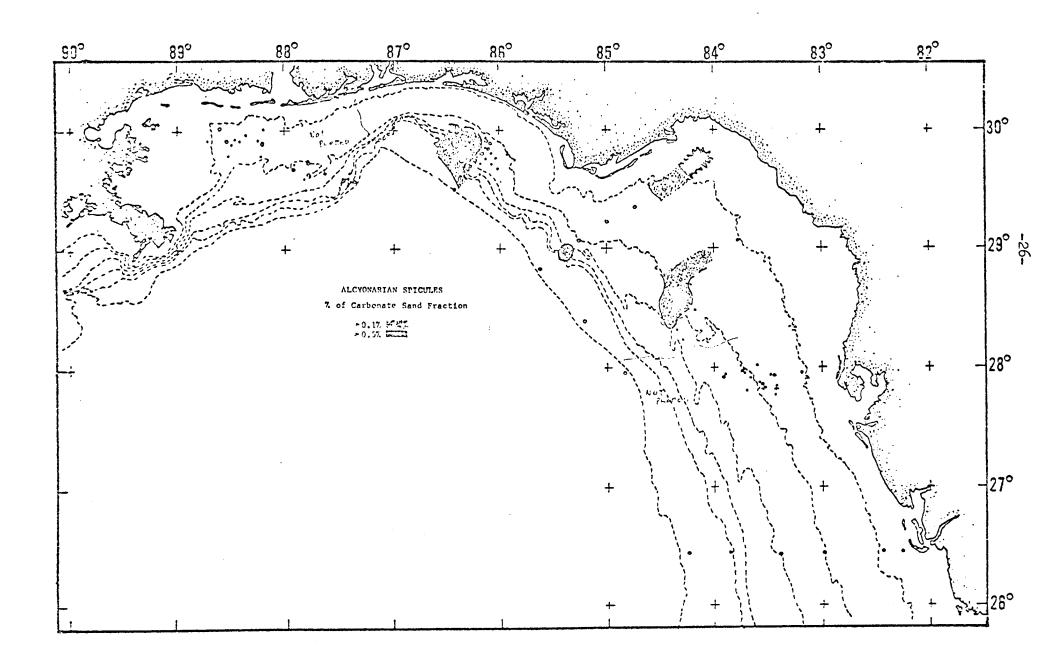


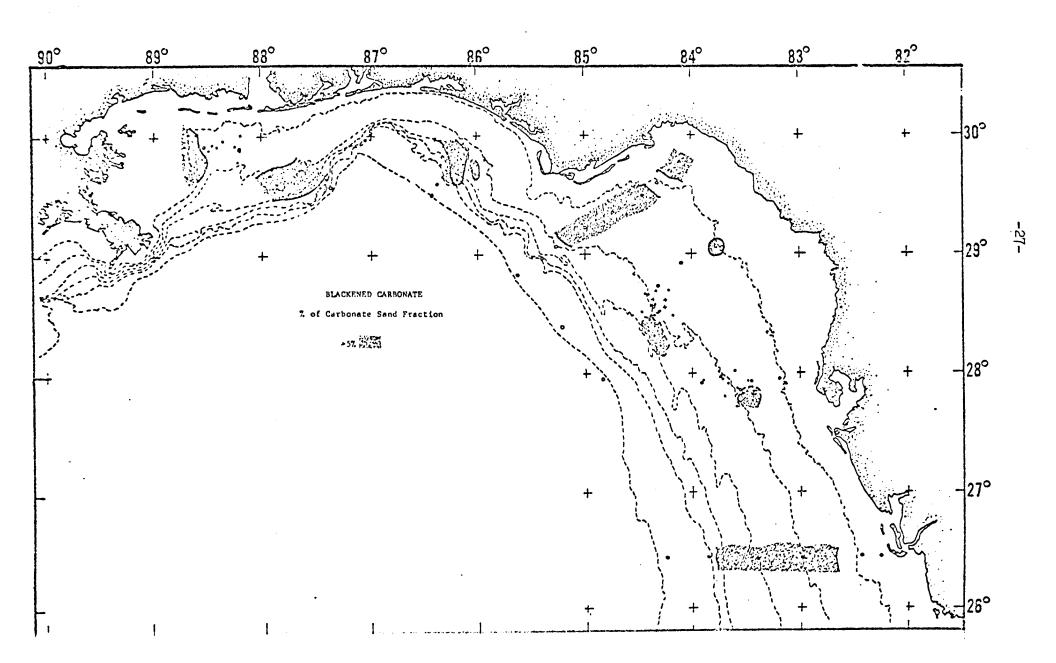


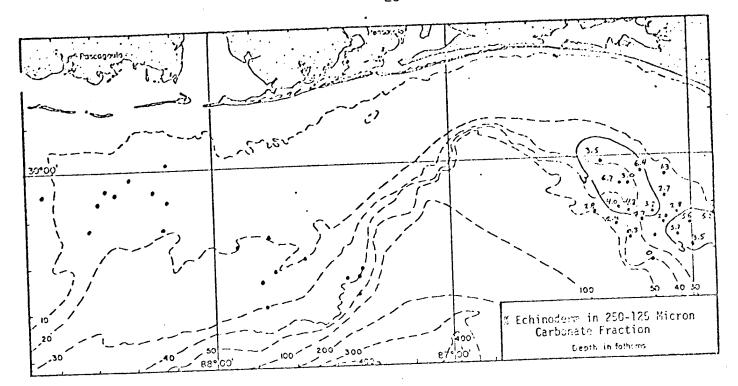


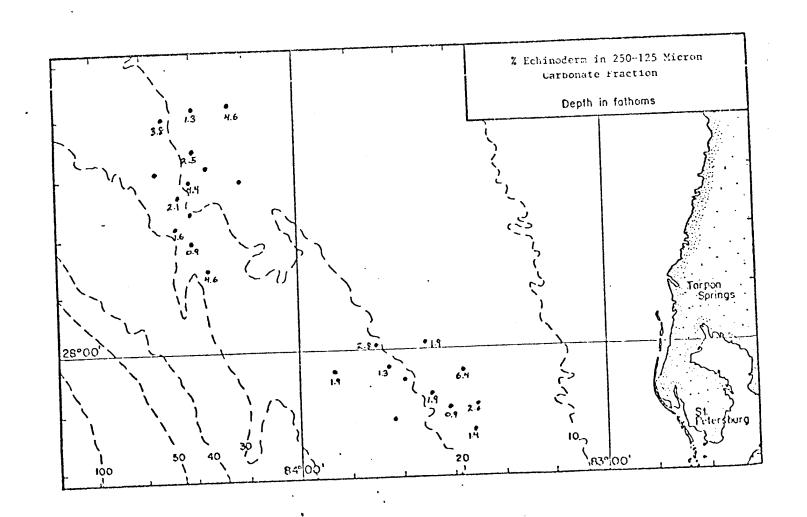


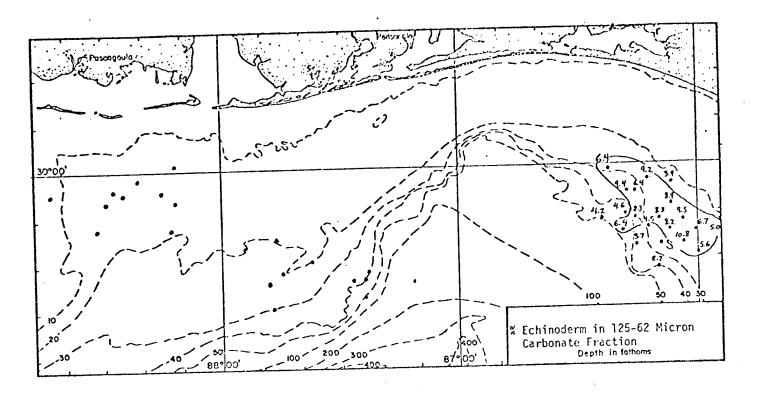


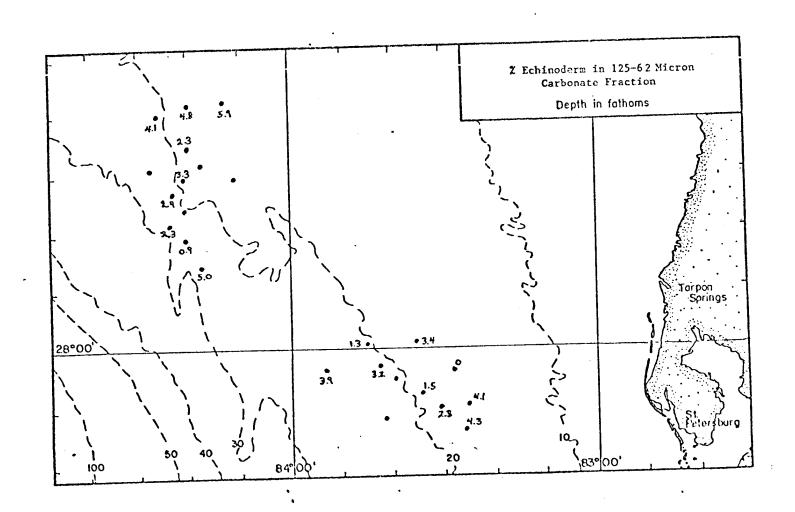


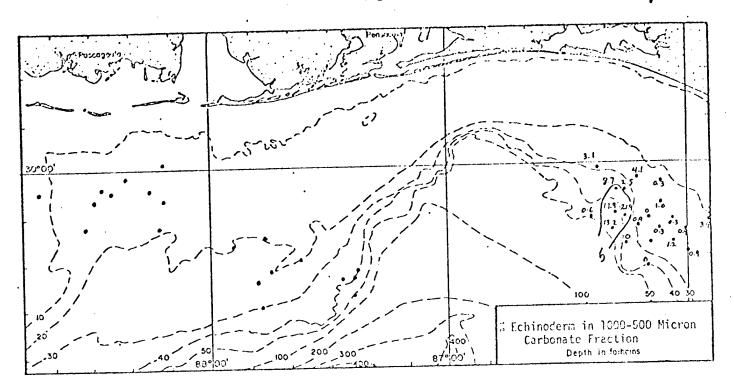


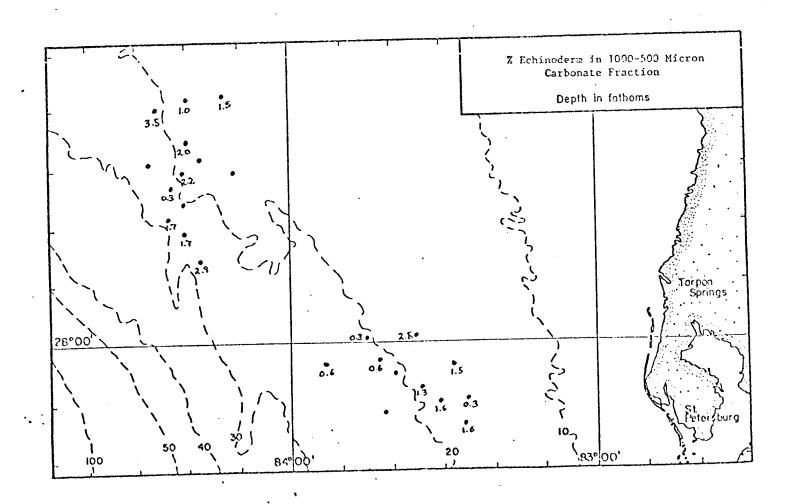


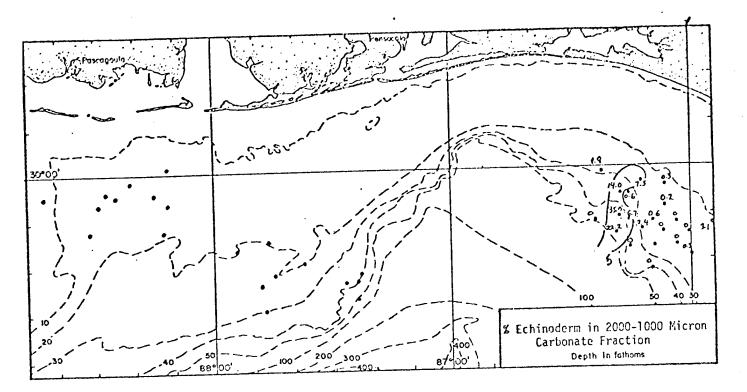


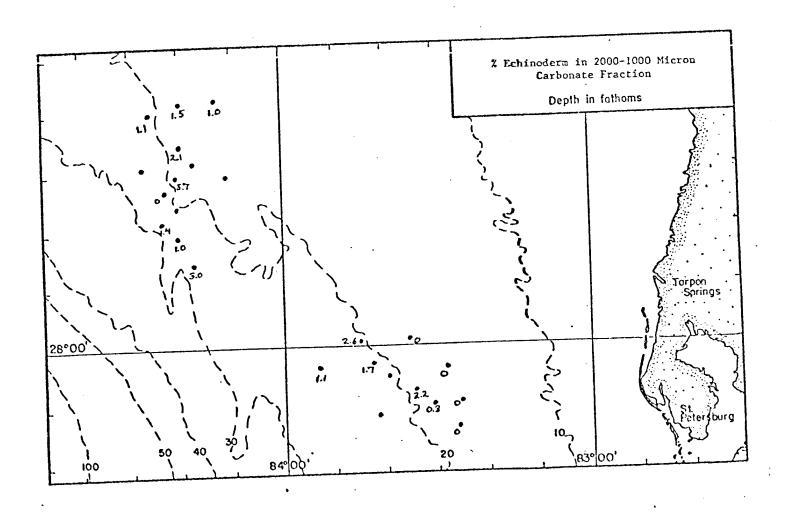


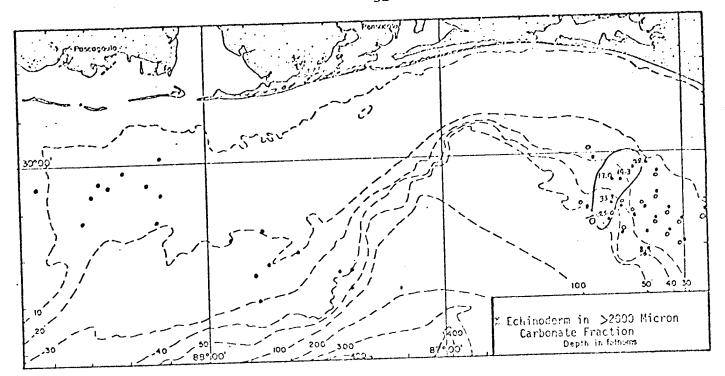


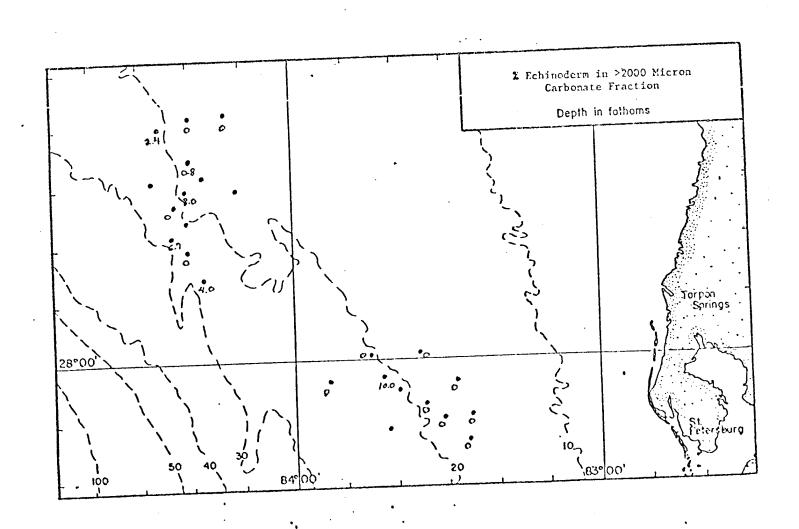


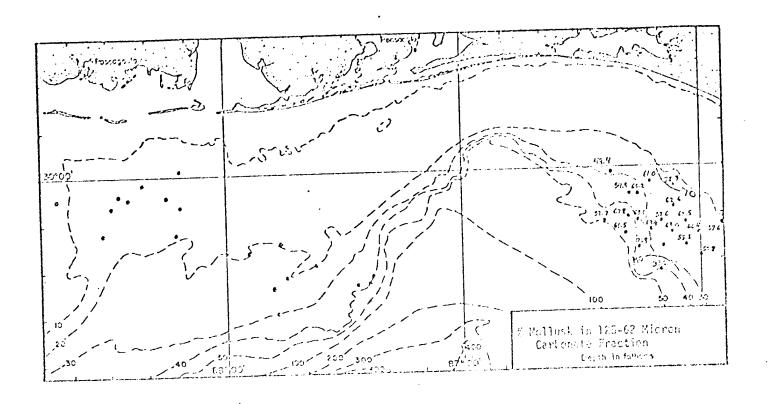


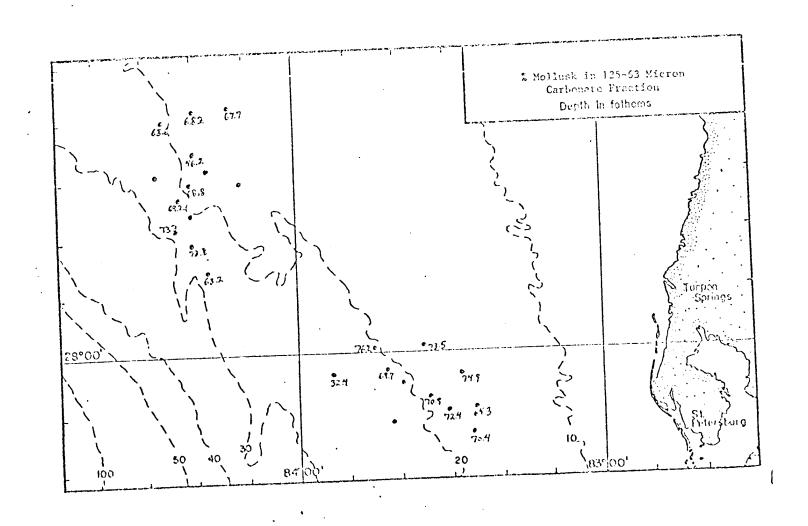


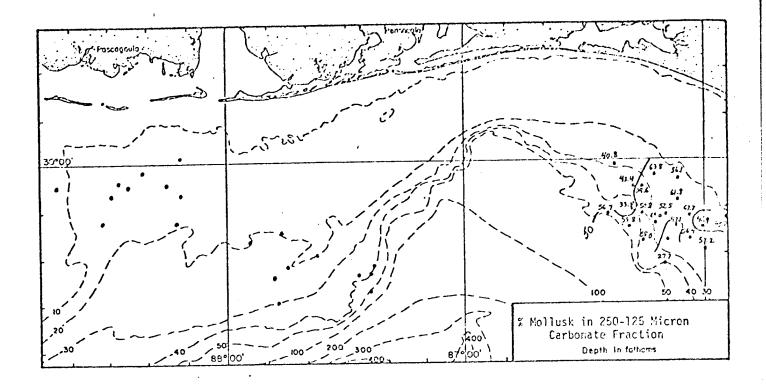


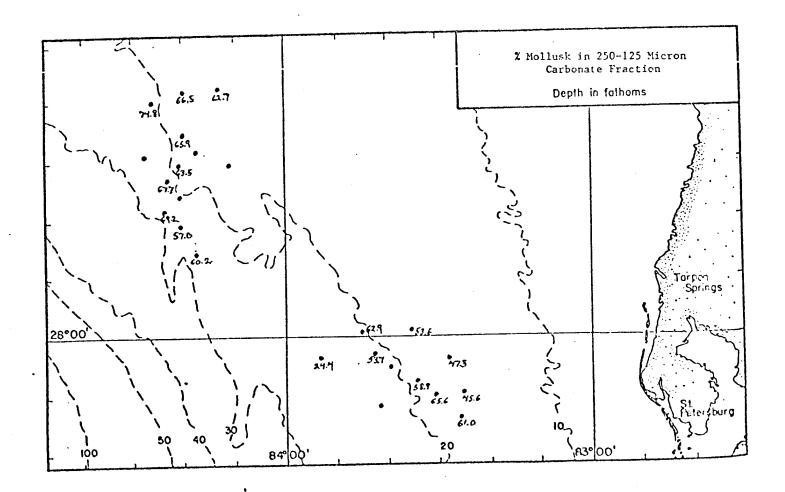


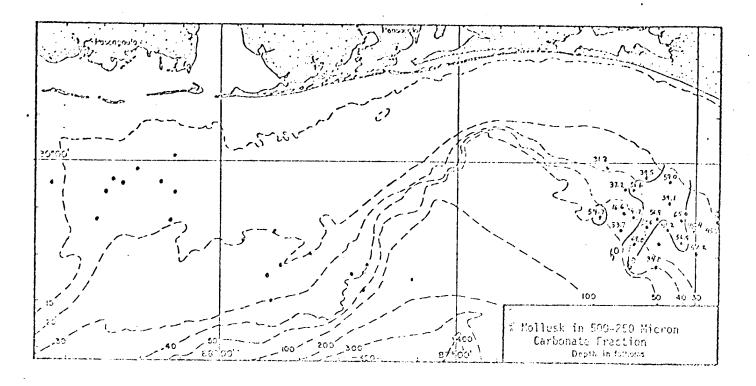


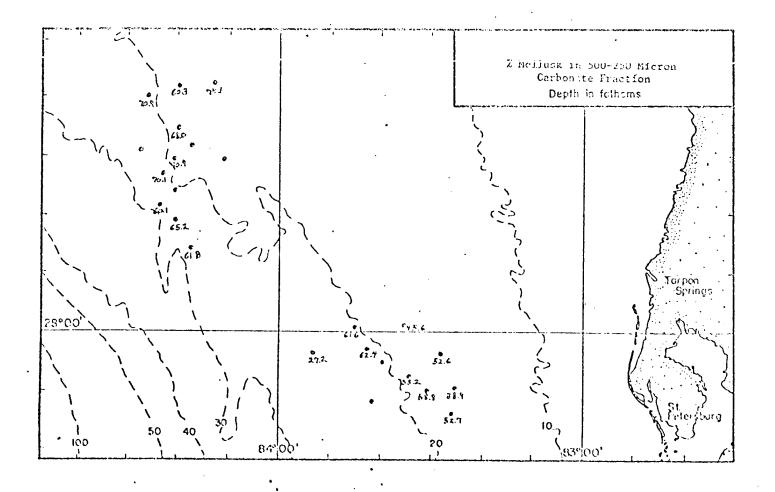


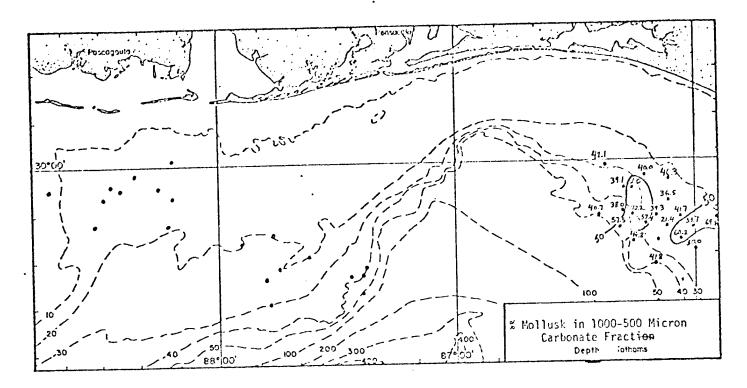


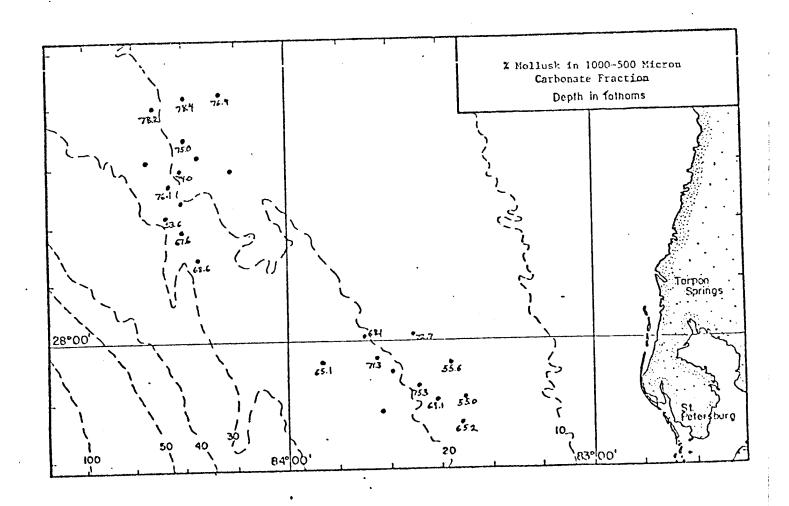


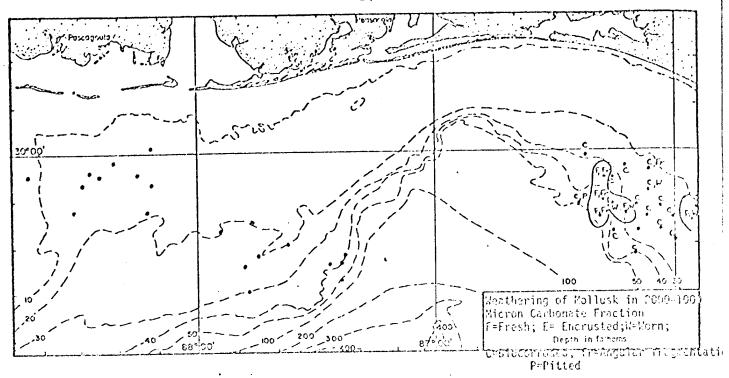


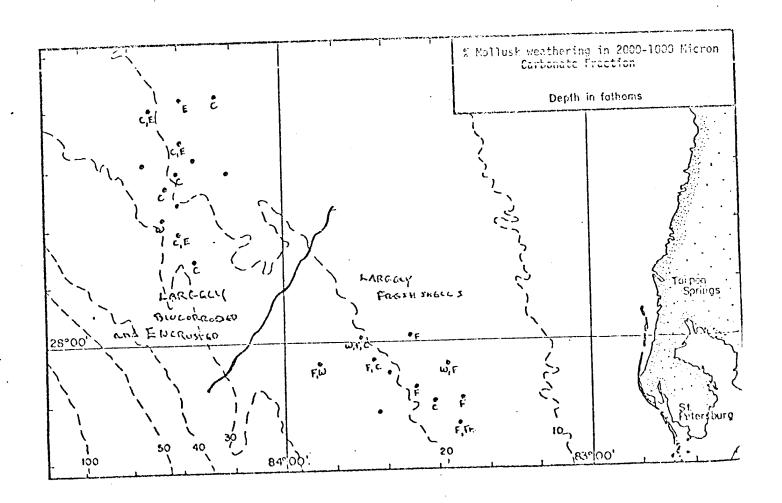


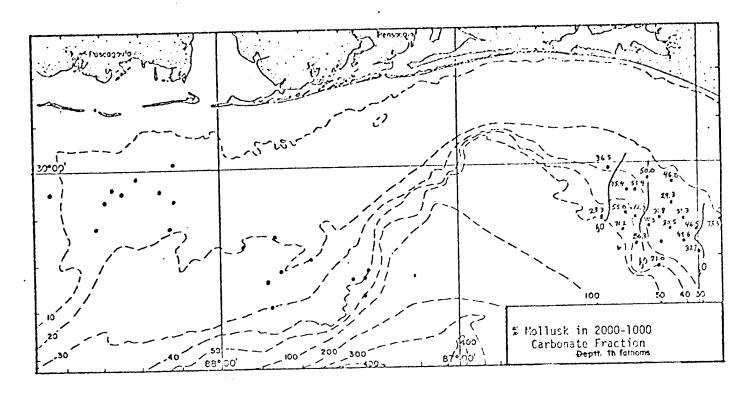


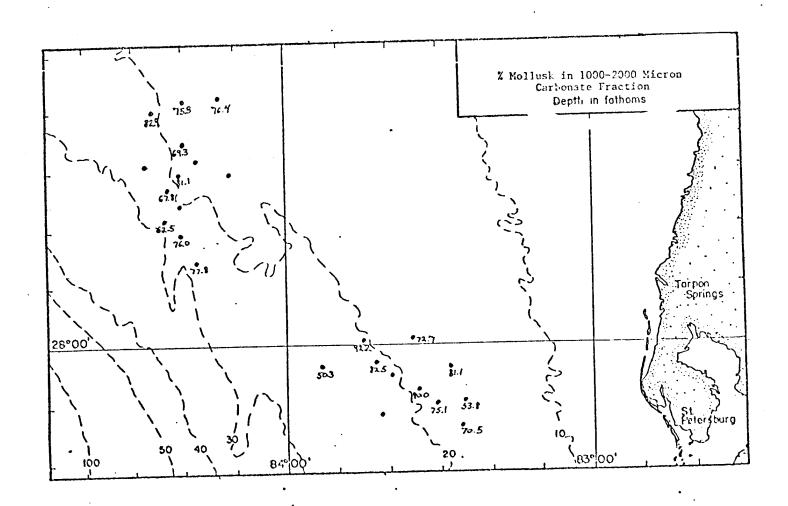


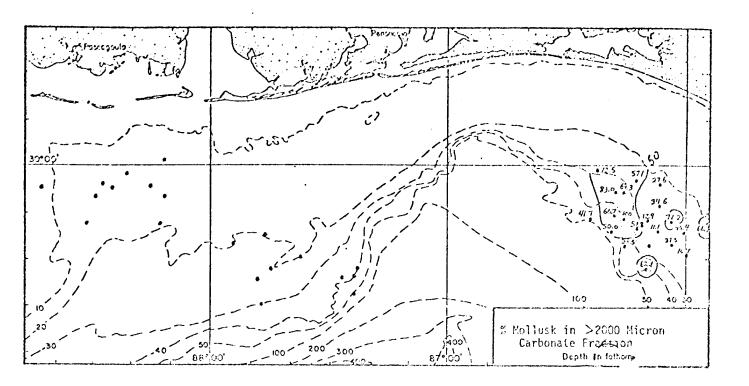


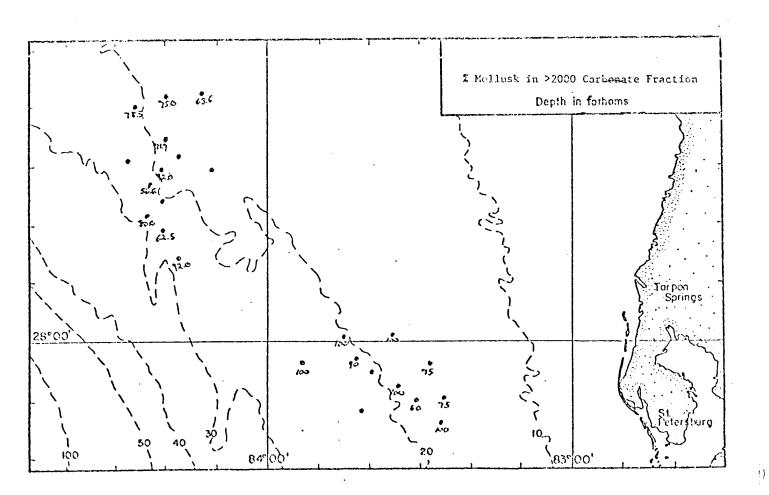












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DISCUSSION

The general characteristics of bottom sediments put forth in the 1974 final report remain valid. Rather than reiterating them, the brief text of this report is included in Appendix IV along with maps of mollusc and echinoid distribution from the 1974 study. This discussion will focus on the general trends revealed from mapping the overall abundance of constituents (Figures 4-14).

The mapped distribution of constituents on the eastern Gulf of Mexico Shelf generally reflects the maps of Gould and Stewart (1956), the results of Back (1972), and the synthesis map of Ginsburg and James (1974). There are a number of important quantitative differences.

- 1. Gould and Stewart (1956) define a broad, elongate zone in which coralline algae is the predominant constituent. This generally correlates both with the >1% coralline algae abundance zone and with the >20% unidentifiable carbonate zone. Thin sections confirm that most of the unidentifiable carbonate is coralline algae in samples with significant identifiable coralline algae. Yet these samples can only contain 20-30% coralline algae at most and are in nearly all cases dominated by molluscan remains. Two possibilities may cause this discrepancy: a) these samples are biased against an adequate reflection of abundance of the >4000 µm fraction (which is dominantly coralline algae) or b) the sampling and recovery methods of Gould and Stewart cause bias towards the coarser for their samples.
- 2. Gould and Stewart define a broad zone of oolitic sand seaward of the coralline algae zone along the southern portion of the eastern Gulf shelf, narrowing north of 27°30' and terminating in the vicinity of 28°30' north. Although ovoid grains were recognized in loose grain

analysis from samples 2105 and 2533, they were classified as unidentifiable because of moderate surficial biological corrosion. Thin section examination of these samples verified that ooid are an important to dominant constituent in these samples. Most are only a thin oolitic coating on carbonate or non-carbonate nucleus. Sample 2105 is from just seaward of the mapped distribution of oolite suggested by Gould and Stewart. Sample 2533 which is from 29°43' is well north and west of the previously suggested occurrence of oolitic sands.

Earlier maps suggest an important boundary between carbonate dominated midshelf (to the south) and non-carbonate dominated mid-shelf (to northwest) occurs between Transects III and IV of the 1975 box coring study. Carbonate abundance data of Doyle and this study support this boundary. Associated with this is a sharp change in the abundance of certain carbonate constituents. Especially notable is the benthic foraminifera, increasing dramatically landward along Transect III, but nearly absent from Transect IV just to the north. Benthic foraminifera are so abundant in the shelf zone represented by Stations 2317 and 2318 that this would fall into the category of a molluscan-foraminiferal sediment (such as that defined for Florida Bay by Ginsburg and James (1974).

The densely sampled shelf area just west of Cape San Blas (Destin Dome area) contains a carbonate constituent distribution that reflects the complexity of the middle to outer shelf. In this area there is a low bathymetric ridge protruding across the shelf and separating two zones of fine sediment accumulation. A scan of the mapped attributes show an abundance of mollusc, pelagic foraminifera, echinoid, ostracod, sponge spicules, and alcyonarian spicule grains in a broad shelf indentation in the vicinity of 29°45' N and

86°30' W. Just to the east is a narrow zone of abundant benthic foraminifera, coralline algae, bryozoan, blackened carbonate and unidentifiable carbonate (mostly coralline algae). The mapped distribution of each of these firm bottom constituents varies somewhat producing a somewhat broader composite zone than is apparent from examining individual maps. Coralline algae abundance on this promontory is the highest observed. As constituent composition distribution cuts across bathymetric contours and does not correlate with previous sediment maps, no attempt has been made to correlate beyond sampling area.

Samples to the west of DeSoto Canyon occur along a rather narrow band from the shelf margin to near the Chandileur Islands. Contouring of this complex area has considered Ludwick's facies and grain-size distribution, bathymetric contours and MAFLA geophysical data. The reef and inner-reef facies of Ludwick contains no significant coralline algae but rather an abundance of bryozoan, benthic foraminifera, and unidentifiable grains. Landward the complex alternations of bathymetry and substrate cause variations in constituent abundance. Benthic foraminifera, echinoid, blackened carbonate and unidentifiable carbonate increase markedly on the inner third of the shelf here. Echinoids in the inner shelf here are very delicate, porous spines, a marked contrast to most other areas.

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Molluscan Lithotope Assemblages of MAFLA Shelf

by

Harold R. Wanless, John Park, and Brenda Bohlke

INTRODUCTION

The molluscan lithotope (shell death assemblage) contains both an integrated record of benthic community character and dynamics (through species assemblages) and basic information about the dominant substrate processes (through superimposed weathering characteristics). The analysis of the molluscan lithotope is considered a vital complement to the benthic station analysis and monitering program for three reasons.

First, the species assemblage of unweathered shells provides a broad data base that can be used to interpret the observed character of and changes in the molluscan biotope. It should provide preliminary insight into the presence and extent of temporal or spatial variation in the benthic molluscan community.

Second, the analysis of the weathering characteristics of the molluscan lithotope provide basic information on the substrate processes (stable substrate= unworn shells; feeding disruption of substance=angularly fragmented shells; mobile sand substrate=worn or polished shells, non-depositional substrate= biocorroded and encrusted shells; and substrate winnowing=worn and biocorroded shells).

Third, an integrated analysis of death assemblage and weathering characteristics provides information of community sequence, source of carbonate particles (relic vs. modern), particle transport, and influence of substrate process on community dynamics.

It was with these interests that the molluscan lithotope analysis was undertaken. Analysis was restricted to the >4000 μm fraction in an effort

to analyze the least mobile portion of the sediments. This report is only an initial glimpse at the value that will come out of this immense amount of significant data.

METHODS

When the non-living material retained on a 500 µm mesh Nitex screen was received at the laboratory, each sample was usually transferred to separate containers. In one instance in which this procedure was not followed, sample 2528 was destroyed, caused by the disintegration of the cloth bag containing it.

The samples were wet sieved through sieves of 4000, 2000 and 1000 μm , dried in an oven, and each fraction weighed and stored in plastic freezer bags.

The molluscan death assemblage in the greater than 4000 µm fraction was analyzed in detail. Usually all of the material was analyzed. However, with some large samples, a sub-sample was analyzed. Identifications were based on Abbott, 1974: American Seashells, 2nd edition, aided by Warmke and Abbott (1962), Parker (1960), and some supplemental material. A reference collection was made representing each species encountered. 10.2 x 12.7 cm poloroid photomacrographs of selected species also aided the sorting and identification. Identifications of the specimens in the reference collection were confirmed, or in a few cases, corrected by Dr. Donald Moore and Mr. Jack Meeder.

Whole valves, half to whole valves, quarter to half valves and less than quarter valves were counted separately. The latter three of these categories were multiplied by factors of 1/2, 1/4 and 1/8, respectively, which yielded their equivalent valve in whole valves. These were then summed and entered on the data sheets as "fragments". "Whole" valves were entered separately, and the "whole" valves and "fragment" valves were also summed to give the total number of equivalent whole valves in the sample (Appendix V, VI).

Within each of the four categories listed above, the "worn" and "unworn" valves and fragments were separated and within each of these two categories, the material was further divided into categories of "plain", "encrusted", or "bored". Shells classified as "unworn" had no, or very little, surface weathering. Those listed as "worn" showed weather corrosion, including the loss of the gloss characteristic of many species. "Encrusted" shells were those with any obvious macroscopic encrusting organisms on their surfaces. Shells with holes characteristic of the sponge Clione spp were listed as "bored".

Evaluation of Methods

The procedure of sorting the sample into whole, half to whole, quarter to half, and eighth to quarter valves, etc., worked quite well. It yielded far more data than counting only whole valves, and was far more accurate than counting all the whole valves and fragments together. Obviously there is an inherent bias in favor of species larger than about 20 mm, since fragments smaller than 1/8 valve could be retained on the 4000 µm screen. On the other hand, there is a bias against species smaller than about 10 mm, since 1/8 valve fragments could pass through the screen. Therefore, whole valve size most accurately sampled was about 15 mm. However, the equivalent whole valve size was rarely greater than 20 mm, and the 1/8 valve fragments of shells smaller than 10 mm would not be recognizable to species in most cases. Therefore, the 4000 µm mesh screen was considered a good compromise for this method with these samples. 3000 µm could possibly have been a better choice.

Sorting shells into weathering categories proved to be difficult, since it involved a value judgment, and the various species have different weathering

characteristics. It is suggested that future attempts use three weathering categories: "fresh", "dull", and "worn"; "fresh" meaning those which show no weathering at all and "worn" meaning any which are worn or corroded. "Dull" would then be used for those shells which have lost little, if any, material to weathering processes, but which have lost their gloss, are discolored, or are otherwise altered from their "fresh" appearance.

Separation of shells into "plain", "bored", or "encrusted" was straightforward. It would have been helpful if differentiation had been made between
living or fresh encrustations and dead-worn encrustations. There is often a
sharp demarcation in a sample between these two categories.

RESULTS

Table 1 shows the occurrence of bivalves death assemblages with respect to station depth. Bivalve species are arbitrarially grouped as "very wide range", "wide-range shallow-centered", "wide-range moderate-depthcentered", "wide-range deep-centered", "narrow-range shallow-centered", "narrow-range moderate-depth-centered", and "narrow-range deep-centered". Species within these groups are arranged according to the actual distribution exhibited by the death assemblage, from wide to narrow, rather than the expected range of the living bivalves. The stations are arranged by increasing depth, beginning at the left. This table is very valuable in presenting an overall view of the distribution of the bivalves, and also as an aid in guiding further studies. For example, variations in weathering characteristics and processes should be investigated among the species showing very wide ranges. In many cases, these might be expected to reflect limited areas of production and subsequent transport, or perhaps areas of contemporary production and others of relic accumulations. In many cases there are both recent and relic accumulations in the same sample showing different weathering characteristics. These may reflect slow cyclic depositional/erosional cycles or sea level changes or perhaps they might record the effects of hurricanes or other events. As another example, it might be expected that those species which show a wide, but discontinuous distribution by depth, might be reflecting variations in substrate or bottom process. These species may be useful indicators of the respective variables they reflect. Those species showing a very narrow range might be good indicators of both specific environmental parameters and depth.

Table II shows the occurrence of bivalves in the death assemblages of the stations by bottom type. The bivalve species are arranged according to their known bottom type distributions from the literature (Abbott 1974, Parker 1960, Stanley 1972). The order is somewhat arbitrary, from gravel to fine mud, with a separate category for attached or boring species. Stations are arranged according to their graphic means from the cumulative size distribution curve, ordered from coarse to fine (data provided by L. Doyle). Therefore, if the species known from the literature to be found only in gravel were indeed found only in gravel in this study and those known from mud were found in mud, etc., one would expect the observations on the table to be grouped around a line from the upper left-hand corner proceeding diagonally to the lower right-hand corner. In many cases, e.g., Astarte nana, Limopsis sp., Callista eucymata, Chione intapurpea, the species do show this pattern. In many others, the observations are tightly clustered around a different mean particle size than expected. This may simply mean that the substrate preferences of the species are not adequately known in the literature. However, many of the deviations from the expected distribution, especially the wide disperse distributions may be expected to reflect transport and/or both contemporary and relic populations. Especially those species exhibiting vague distributional patterns by depth in Table 1 and by substrate in Table II are prime suspects as indicators of transport and/or relic and modern populations.

TABLE I

Occurrence of Bivalve Death Assemblage
with Respect to Range and Depth

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^{* &}quot;Shallow", "moderate", and "deep" are arbitrary divisions, used only for convenience

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Lucina pectinata Anodontia alba Martesia sp Mercenaria sp				×	x x						
Arca sp Barbatia dominguensis Pteria sp Strigilla carnaria					х х х	x					
Tagelus divisus Anadara notabilis Raeta undulata						×	×				
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Narrow Range - Deep Centered (Continued):

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Pleuromerus armilla							ļ	{	×	
Lucinoma pectinata							}		×	
Ventricordia fisheriana									^	
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Nuculana tenuisulcata	 1	ŀ				1	ł	1	.l	,

TABLE II

Occurrence of Bivalve Death Assemblage
with Respect to Bottom Type
(3 pages)

Grain size unknown

Tellina spp

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29 34 30 31 33 28 45 11 44 43 25 18 4 22 23 40 5 32 3 26 24 2 6 20 42 19 16 41 7 39 21 1 17 27 12 37 9 38 35 36 8 13 10 14 15 Gravel - Coarse Sand Centered x x x Chione spp x x х х Pandora arenosa Astarte nana × x x x x Limopsis spp × x Mediclus sp × x Trachycardium sp Sand Centered × Americardia media Anadara notabilis Callista eucymata x x Carditamera floridana Chione intapurpea x x x x Chiene pygmaea x x х Cyclocardia armilla x x x Dipledenta sp хх Diplodenta nucleifor- x -:1s Divaricella quadrisulcata x x Dosina elegans Glans dominguensis x x x Glycymerus x x x x x Gouldia cerina × Lings pensylvanica Macoma tenta Macrocallista maculata Macrocallista nimbosa Noetia ponderosa × Nuculana carpenteri Periglypta listeri x x x x x x x x x x x Pitar simpsoni Ptercherus perplana x x x x x Semelo bollistriata Semele purpocascens x - x - x - xSolecurtus cumingianus Solecurtus santaemarthae Strigilla carnarla ×

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DISCUSSION

The molluscan lithotope analysis and data assimilation program took much of the contract period to complete. This was partly because of late arrival of any samples and partly because of our decision to analyze both samples provided in most cases. With the data well in order, we hope to make time in the coming nonths to do some of the following:

- a) Compare species distribution with other textural parameters;
- b) Defi.e assemblages and assemblage sequences;
- c) Correlate species-weathering assemblages with substrate attributes;
- d) Compare lithotope with biotope (after filtering out non-relatable species); and
- e) Map critical species-weathering assemblages.

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APPENDIX I

Carbonate and Skeletal Constituent Composition

SA	MPLE:1A								DE	PT	- : 42		<u>.</u>								DE:_				-
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FRACTIONS (4)	500-250	44.1 35.	2.1		3.9	3.6	3.9		0.6							6.4	0.3		331	59	390	84.9	15.1		
	250-125	7.8 58.	1		3.4	6.8	1.3	1.3		-						15.3			308	125	433	71.1			
SIZE	125-62.5	12.9 6.	0.3	1	53.9	12.3	0.8				0.3					13.4			358		1106	 	67.6		
	Σ % > 62.5	17.23,12.0	2 0.23	4	5.58	10.66	0.91	0.23	tr		0.23					12.92	tr		174	934	2108	55.7	44.3	97.90	< 62 4

1174 934 2108 55.7 44.3 87 88

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAM	PLE: 2A									DE	ртн	78'											0		
												` 	 					L	ON.	GITU	DE:	8 33 3	0		
WHO	LE SAMPLE	DE	SCRI	PTIC)N:								 												
									_ <u>S</u>	IZE	FRA	CTIO	 												
	O and frag	gments;	dull,	sligi	AND: MO htly wor e drille	n and	encru	, shin	y, who whole	ole val valves	ves and		CARBON B. FOR chippe INTRA-	NATE S RAMm ed, EC fria	AND: 1 ostly 1 HINOID ble ago	40LLUSC fresh a fresh	most nd who , and s, QUA	Y, QUAR ly dull le: also dull and RTZclo	, wor o who d wor	n, fro le, du n, pla	sted f 11, wo te and	fragmen orn, of d spine	its, ften e fragm		500-250
	fragmen encrusti plate f fresh f	ts; wom ed frag ragment ragment	on, shi gments, ts, COP ts, INT	iny fra , some RALG RAma	blacken -dull w	and ed, E orn, y ind	dull, CHINOI	slight Ddul fragme	ly wor 1, sl	rn and ightly WORM TI	worn		MOLLUS B. FOI some t	SCwo RAMf fragme ents, ents,	rn, fro resh and nts, Ed INTRA- QUARTZ	osted f nd whol CHINOIC -friabl	ragmer e, and fres e aggr	LLY, FO its and i whole, sh to sl regates, ightly	fewer slig ightl X-CA	r fresh ghtly w ly worn ARBm	i, angu orn ar i, plat ostly	ular fr nd chip te and worn,	ragment oped; spine froste		250-125
	PINKISH MOLLUSCO Fragmen worn pl mostly subroun	most ts, B. ate fra dull, N	ly worr FORAM-	n, shi. dull :. INT	ny fragm , whole, RAmode	ments , slig Pratel	and du htly w v indu	ill, sl morn, E mrated	ightl CHINO aggre	y worn IDsli gates, nt, mos	ightly X-CAR stly	в IN Т	MOLLUS whole INTRA QUART	SCmo , ECHI fria Zcle	stly w NOID ble aq	orn, fi fresh i gregate	osted o slig s, X-0	SHELLY, fragmen phtly wo CARBw nslucent	ts, E rn, p orn,	3. FORA plate a froste	AMmos and spi ed frag	stly fr ine fra gments to sub	resh ar agments , bangula	ir.	<u> 25-62,5</u>
		\range \text{hc}							th of	- 7			 		Rat W		ACC NO.	New John Strate Line	A LE STATE	* /6 / \$ 8 / 8 / \$ 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8			EGG N	y Et X	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
_1	4000-2000	100																	31		31	100	0	5.80	
(m) s	2000-1000	39.7				2.6		1.7					1.7			1.7	2.6		116		116	100	0	1.23	
ON	1000-500	81.9	2.1			5.1	0.7	8.5								1.0	0.7		293	25	318	92.1	7.9	0.42	
FRACTIONS	500-250	39.3	45.7	1.1		8.0	0.3	8.3		0.5						4.0			372	146	518	71.8	23.2	0.61	
	250-125	10.5	70.9	2.3		3.1	0.9	8.3								4.0			351	13	364	96.4	3.6	1.46	
SIZE	125-62.5	26,7	23.8	0.6		12.2	3.8	6.3				0.3				26.3			319	349	668	47.8	52.2	10.64	

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:_	3A									DE	PT	d: 9	6'									29 53			
WH	OLE SAI	MPLE	E DE	SCR	IPTI	ON:_					SIZE	EB/	CTIC) NI D	FSC	DIDT	TONE	>		LOI	NGI I		• 00 30	_00		•
		one sl	Cpink ightly one du	worn,	shiny	fragme	ent; or	ne dul'	l, slic	, worn	and sh	inv.		<u> </u>	GREEN MOLLU worn,	IISH GI JSCwo P. FO	RAY, Quorn, fi	JARTZITIC Tosted frostly frostly from	, ECHINOI agments, esh and w gments, Q gular to	B. FORA hole, E	Mmos CHINOI clear	stly wi Dfr	hole, f esh to	resh a	ınd	500-250
	00	MOLLUS! shiny :	IGHT GR Cdull fragmen IDfre	i, slig its, B.	htly v FORAN	√orn f∢ 4dull	ragment 1, worr	s and	fewer,	, sligh Slacker	RBONATE	SAND:	:		worn, fragm plate	frost ents; fragn	ted fra some a ments,	gments, gglutina INTRAg	TIC, FCRA B. FORAM- ted forms reenish g cent, mos	-whole , ECHIN ray, fr	and fr 10ID-+m iable	esh, a mostly aggree	and wor fresh gates.	n spine OUARTZ	and	250-125
	0500	CAREGN/ slighti nostly	H GRAY ATE SAN ly bore whole, plate f nded.	(D: MO :d; few fresh	LLUSC- er sli to sl	dull, ightly liahtly	, worn, worn, / worn.	frost shiny FCHIN	ted fra fragme ЮIDf	gments nts, B resh t	, some	M htlv	у		worn, mostl fragm mostl	frost y whol ents, y worr y very	ed fra le, fra INTRA- i, fros	gments; sh to wo -greenis ted frag	CARBONAT some fres rn, ECHIN h gray, f ments, QU bangular.	h, angu DIDmo riable	lar fr stly f aggreg	ragment resh p nates.	ts, B. plate a X-CARB	FORAM- nd spi	ne	125-62.5
			W.							STE OF	. 7		IN T		, ,	,	, RAL H			RISTAL STATE				AREON!	idelar	
1	4000-20	000	100																	5			100	0	0,13	
FRACTIONS (A)	2000-10	000	48.3	1.7					50.0											60			100	0	0.24	
NO O	1000-	500	38.0	6.7	0.6		0.8		53.3									0.6		360	22		94.2			
RACT	500-	250	4.1	58.4	8.7		2.0		25.0		1.2							0.3	0.3	344	113		75.3		1.29	
1	250-	125	4.0	66.7	3.4		2.4	0.6	14.7		1.8							6.4	1	327	72		82.0			
SIZE	125-6		41.4	18,8	1.3		18.5	3.6	2.9	0.6			0.3					12.0		309	569		35.2			
	Σ %>6	2.5	25.31	38.98	2.69		10.01	1.93	11.45	0.29	1.06		0.19					8.09	tr	1405	776		64.4			< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

				VAI	(DO	MMI		AND	<u> </u>	<u> </u>		L 3	AN	<u>, </u>	ON?	Ш	UEN		OM	20;		<u>ON</u>				
SA	MPLE:4	A								DE	EPTI	H:9	0'								TITU	_				
WH	OLE SAMP	ובר	FSC	PIPTI	ON•								•			•				LO	VGIT	UDE	88 31	30		
****	OLL CAM		L301	VII I I	014					SIZE	FRA	ACTIO	ON E	ESC	RIPT	ΓΙΟΝ	 S_									•
	91				·													O I DAL .	FORAM	INTER	2AL CAR	RONATI	SAND	. MOLL	HSC	ן איז
	4000-2000 Moll slig	USCwh	ite, du	ill, wo	rn, sl gment.	ightly •	bored	fragme	ent, EC	CHINOI)			most whole spine	ly dul e, but e fragr	l, wor	n, fros and oft QUARTZ	ted fr	agment pped, i r to s	B.	FORAM-	-fresi	n and w	vhole,	and	500-250
WHITE TO LIGHT OLIVE GRAY, SHELLY ECHINOIDAL CARBONATE SAND: MOLLUSC-mostly shiny, slightly worn, whole valves, and fragments; one frosted, worn, slightly bored, blackened fragment, ECHINOIDfresh to slightly worn, plate fragments. VEPY LIGHT GPAY TO LIGHT OLIVE GRAY, SHELLY, ECHINOIDAL CARBONATE SAND: MOLLUSCmostly dull, worn, frosted fragments, mostly whole, fresh and worn; some are chipped, ECHINOIDAL plate and spine fragments, INTRAgreenish gray, frial QUARTZclear to slightly translucent, mostly angular fragments, is ightly worn, frosted and/or slightly bored fragments; fewer fresh, angular fragments, B. FORAMmostly whole, but dull and slightly worn, ECHINOIDfresh to slightly worn, plate and spine fragments, INTRAolive gray, moderately indurated aggregates, QUARTZclear to slightly translucent, mostly angular fragments, intraolive gray, moderately indurated aggregates, QUARTZclear to slightly translucent, mostly angular														worn, t some a TRAar	roste re ch	d frag dipped,	ments ECHIN	, B. FC 1010f	RAM resh	.ac	250-125					
														y whol gments	e, fre , INTR	sh A	125-62.5									
											GRA	IN T	YPE	:S(%	s) ²											
	GRAIN TYPES (%)															ARRONIO	igel 4									
4000-2000 50.0 50.0 2 2 100													100	0	0.02											
77	2000-1000	17.	9					82.1												28			100	0	0.07	
NOI	1000-500	26.	5 7.9			2.6	1.1	60.3		0.5							1.1			189	1	190	99.5	0.5		
FRACTIONS (4)	500-250	4.	0 82.0	2.6		0.3	0.9	29.0		0.9							0.3			348	15	363	95.9			
	250-125	5,	4 73.1	1.3		1.0	1.0	16.0									2.2			312	51	363	86.0	14.0	1.30	
SIZE	125-62.5	18.	2 21.2	1.2																						

1214 634 1848 65.7

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	AMPLE: 5A DEPTH: 102' LATITUDE: 29 55 30 LONGITUDE: 88 25 00																										
SA	MPLE:_	PLE: 5A DEPTH: .E SAMPLE DESCRIPTION:																		i	LAT	ITUI	DE:_	29 55	30		
140	015 041											_, ,	-	~							LON	IGITU	JDE:	88 25	00		
WH	IOLE SAN	MPLE	· DE	.SCR	IPTI	ON:	 -			·····																	•
		SIZE FRACTION DE: WHITE TO LIGHT OLIVE GRAY, MOLLUSCAN ECHINOIDAL PLATE SAND: MOLLUSC dull, slightly worn fragments, ECHINOIDdull, slightly worn, plate fragments.															ION	<u>S_</u>									
	의 [dull,	slignt	HT OLI	VE GRA n frag	Y, MOL	LUSCAN ECHIN	ECHIN	OIDAL 1	PLATE :	SAND: y worn	MOLLU , plat	JSC te		fres but dull fres	UNATE h, ang worn a , ECHI h to s	SAND: ular f nd oft NOID lightl	MOLLUS ragment en chip mostly v worn.	Cmo: cs, B. pped, l fresh	Y, QUART stly dul FORAM P. FORAM plate a e valves translu	l, sl mostl mos nd sp	ightly y fres tly wh ine fr	worn h and nole, agmen	fragm whole fresh ts, OS	ents; s ,and wh to slig TRACODS	nole, htly	500-250
	PINKISH GRAY TO LIGHT OLIVE GRAY, ECHINOIDAL, MOLLUSCAN SAND: MOLLUSCshiny, slightly worn fragments and dull, worn fragments, some slightly bored; fewer fresh, angular fragments, ECHINOID fresh to slightly worn, plate fragments, X-CARBdull, worn, bored fragment. GREENISH GRAY, QUARTZITIC, FORAMINIFERAL CARBONATE SAND: mostly worn, frosted fragments, B. FORAMmostly whole, and who but worn and often chipped, ECHINOIDmostly fresh plate and s fragments, INTRAolive gray, friable aggregates, OSTRACOD relatively fresh, whole valves and fragments, QUARTZclear to translucent, mostly angular to subangular.															d whole nd spir	. 1	250-125									
	0-500	PINKISH GRAY TO LIGHT OLIVE GRAY, ECHINGIDAL, MOLLUSCAN CARBONATE SAND: MOLLUSCdull, slightly worn fragments, some slightly bored; some relatively fresh, angular fragments, B. FORAMmostly whole, dull and slightly worn, ECHINOIDfresh to slightly worn, plate and spine fragments, BRYOZOAdull, slightly worn fragments, QUARTZ clear to translucent, angular to subangular. LIGHT OLIVE GRAY, SHELLY, CARBONATE QUARTZ SAND: MOLLUSCworn, frosted fragments and fewer relatively fresh, angular fragments, B. FORAMmostly whole, fresh and worn, ECHINOIDmostly fresh plate and spine fragments, INTRAolive gray, friable aggregates, X-CARBworn, frosted fragments, QUARTZclear to slightly trans-lucent, mostly very angular to subangular.																125-62,5									
												GRA	IN T	YPF.	(PFS (%) 2												
GRAIN TYPES (%) E GRAIN TYPES (RECON	Legist N	\$\$\\\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\											
لہ	4000-20	000	21.4						78.6												14			100	0	0.11	
3	2000-10	000	50.8				1.5		47.7												ᆉ						
S	1000 - 5		 -			-	1.,					-	-								65		65	100	0	0.34	
흱	1000-5	000	51.4	4.4			0.8	0.3	42.0		0.3			0.8							362	6	368	98.4	1.6	0.34	
FRACTIONS (4)	500-2	250	18.1	50.7	6.2		2.0	0.6	17.6	0.3	2.5							2.8			353	31	384.	91.9	8.1	0.72	
1	250-	125	9.6	61.3	2.5		2.8		12.7		3.4							7.7			323	38			10.5		
ZE						 	 					├	 										701	33.7	1017	4.5/	

Σ%>62.5

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAM	PLE: <u>6</u> 4						 1	Into Tono		DE	РТН	<u>96'</u>										—)E:_2 !DE:3					
WHOL	E SAMPLI	SAMPLE DESCRIPTION: SIZE FRACTION E VELLOMISH GRAY, ECHINOIDAL, MOLLUSCAN SAND: MOLLUSC-mostly shiny, slightly worn, whole or slightly chipped valves; some dull, slightly worn valves, one drilled; some relatively fresh fragments; ECHINOID																	·								
	Slight worn v	ly worn. alves, o	, whole one dri	or sl lled;s	iahtly (chipp ative	ed val ly fre	ves: s	ome du	11. 51	ightly			fresh slight worn, INTRA-	angula ly bor ECHINO -very	GRAY, r frag ed; so IDfr friabl ar to	ments, me bla esh to e aggr	and d ckened sligh egates	ull, S . B. F	light! ORAM	y worn mostlv	tragm whole	ents, . fres	some	ent,	500-250	
	worn w some d ECHINO	nole and ull, woo IDdul	d frage rn blac l, slig	mented ckened phtly w	CONATE valves; fragmen orn, pluggregat	fewe ts; s ate f	r dull	, slig ocruste	htly w d frag	orn fr	agment	ts ;		mostly B. FOF worn, X-CARE	fresh AMmo plate dul	stly w	lar fr hole, ine fr n frag	agment fresh agment ments	s and to wor	dull, n, ECH RAol	slight INCID- ive Gr	ly wor -fresh av. fr	n frag i to sl iable	MOLLU gments, lightly aggreg ansluce	ates.	250-125	
	SAND: bored fresh CO ECHINO	YELLOWISH GRAY TO MEDIUM LIGHT GRAY, QUARTZITIC, SHELLY CARBONATE SAND: MOLLUSCfresh to slightly worn fragments; dull, worn, often bored fragments; and fewer worn, blackened fragments, B. FORAMfresh and whole, and whole, but dull, worn, often fragmented, ECHINGIDfresh to slightly worn plate fragments, INTRAfriable aggregates, QUARTZclear to slightly translucent, angular to rounded.														GREENISH GRAY, SHELLY, CARBONATE QUARTZ SAND: MOLLUSCmostly dull, slightly worn fragments, B. FORAMmostly whole, fresh to slightly worn, ECHINOIDrelatively fresh plate and spine fragments, INTRA olive gray, friable aggregates, X-CARBdull, worn fragments, QUARTZclear to slightly translucent, mostly angular to subangular.											
									HI QU	7			YPE TOHORID		<u>)</u>	- Rai (III)		RECT TO		ST AND				riddy /		40	
أحا	4000-2000	000-2000 66.4 13.6 13.6 13.7																		22		22	100	.0	1.40		
ŧ	2000-1000																2.8			71		71	100	0	1.03		
NO	1000-500																5.7	0.8		354	16	370	95.7	4.3	0.96		
FRACTIONS	500-250																19.2	0.3		369	208	577	64.0	36.0	3.83		
	250-125 33.5 37.7 2.3 5.5 1.9 11.0 1.6 0.3																6.2			308	390	698	44.1	55.9	17.77		
SIZE	125-62.5 50.0 14.9 1.3 13.2 3.2 11.9 0.3 0.3																4.9			310	674	984	31.5	68.5	37.54		
2	∑ % > 62.5	50.0 [4.9] 1.5 [15.2] 5.2 [11.9] [0.5] [0.5]															6.36	0.08		1434	1288	2722	52.7	47.3	37.38	< 62.4	

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

SAN																						LATITUDE: 29 56 00 LONGITUDE: 88 15 00					
WHO	SIZE FRAC													ח או	ESC	RIPT	IONS							00 13			
	4000-2000	PINKISH fresh, whole t fragmer	whole o slig	and sl	ightly	broke	n valv	es; so	me dul	MOLL 1, sli	USCs ght1y	hiny, worn,			LIGHT fresh B. FO ECHIN	OLIVE , angu RAMm OIDm	GRAY, llar fr nostly nostly	QUART: agment: whole, fresh,	s and fresh plate	SHELLY dull, wo to worn and spir ly suban	rn f: , P. ne fi	ragmen FORAM ragmen	ts, so fres ts, QU	me bla h and ' ARTZ	ckened	,	500-250
	2000-1000	Pinkish Gray TO MeDium Dark Gray, Shelly Carbonate Sand: McLlusc fresh, angular, shiny fragments; dull, slightly worn fragments; and dull, worn, bored and/or blackened fragments, ECHINOIDrelatively fresh, slightly worn plate fragments.														y dull y whol , INTR whole	, worn e, fre Woli and f	fragm sh to ve graj ragmen	ents; worn, y, fri	SHELLY some fre ECHINOID able agg me are a angular	sh, a fra rega rtica	angula esh pl tes, 0 ulated	r frag ate an STRACO , QUAR	ments, d spin Dfre	B. FOI e frag sh and	-	250-125
	1000-200	PINKISH GRAY TO MEDIUM GRAY, QUARTZITIC, SHELLY CARBONATE SAND: MOLLUSCfresh, shiny, angular fragments and dull, worn fragments, many blackened, ECHINOIDfresh to slightly worn, plate fragments, B. FGRAMmostly whole, fresh to slightly worn, QUARTZmostly slightly translucent, subangular.														frost OIDf , fria Zcle	ed fra resh p ble ag	gments late a gregati	, B. F nd spi es, X-	BONATE Q ORAMmo ne fragm CARBw nslucent	stly ents orn,	whole , INTR frost	fresh Aoli ed fra	to wo ve gra gments	rn, y to		125-62.5
			Į,							HINOID PE	- 7			YPE		,	, and the		RACIO		A STATE OF THE STA				Ricold C		\$\frac{1}{2\chi}
1	4000-	2000	100																		13		13	100	0	0.55	
7	2000-	1000	95.8						4.2							****					72		72	100	0	0.71	
ONS	1000	-500	86.2	4.4			0.3	0.3	8.5										0.3		517	12	329	96.3	3.7	0.99	
FRACTIONS (4)	500	-250	42.2	21.1	5.1		4.1	1.9	14.7		1.3							9.3	0.3		313	125	438	71.5	28.5	2.52	
	250	-125	48.1	21.0	1.5		4.8	1.2	14.4		3.6							5.4			333	253	586	56.8	43.2	17.69	
SIZE		62.5	43.9	19.0	1.2				13.0	0.3	0.6	0.3						8.4			331	847	1178	28.1	71.9	48.03	
	Σ%>	62.5	49.27	18.50	1.45		6.89	2.18	13.03	0.14	1.67	0.15						6.68	0.04	13	79	1237	2616	52.7	47.3	29.13	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMPLI														UEPIB: /0									JDE: <u>30 01 30</u> FUDE: <u>88 12 00</u>				
WHOLE	SAMPLE									LON	GITU	JDE: <u></u>	88 12	00													
	SIZE FRACTION DESCRIPTIONS																										
0000	MGLLUSC worn, s fragmen	hiny, 🛭												worn, fragm	ECHIN ents,	OIDf INTRA-	resh, a -olive	ind du gray,	ll, sli friabl	ghtly e agg	worn, regate:	plate s, QUAF	and si TZc	pine	- 1	500-250	
0001-0008	YELLOWI mostly worn fr dull, s infille	YELLOWISH GRAY TO MEDIUM DARK GRAY, SHELLY CARBONATE SAND: MOLLUSC-mostly dull, worn fragments, many blackened; fewer shiny, slightly worn fragments, B. FORAMmostly whole, fresh and worn, frosted fragments, B. FORAMmostly whole, fresh and worn, dull, slightly worn, plate fragments, BRYUZGAdull, slightly worn, infilled fragments. YELLOWISH GRAY TO MEDIUM DARK GRAY, QUARTZITIC, SHELLY CARBONATE LIGHT OLIVE GRAY, SHELLY, CARBONATE QUARTZ SAND: MOLLUSCmostly worn, frosted fragments, B. FORAMmostly whole, fresh and worn, frosted fragments, B. FORAMmostly whole, fresh and worn, eCHINOIDmostly fresh plate and spine fragments, INTRAfriable aggregates, QUARTZclear to slightly translucent, mostly angular to subangular. YELLOWISH GRAY TO MEDIUM DARK GRAY, QUARTZITIC, SHELLY CARBONATE GREENISH GRAY, SHELLY, CARBONATE QUARTZ SAND: MOLLUSCmostly wo															worn, iable		250-1 25								
Ç	SAND: MOLLUSCmostly dull, worm, fragments, often frosted and/or blackened; fewer fresh, angular fragments, ECHINOIDfresh and dull plate fragments, INTRAfriable aggregates, QUARTZclear to slightly translucent, mostly subangular to subrounded. frosted fragments, B. FORAMmostly whole, fresh and worm, ECHINOIDmostly fresh plate and spine fragments. INTRAfriable aggregates, QUARTZclear to slightly translucent, mostly are to subangular.															iable		25-62.5									
		\range to							ATURO DE	- 7			YPE:		,	RAL H		RACI NO		STREET				pred N	Control of the contro	3/s./ .*/	
	4000-2000 62.5 37.5 37.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5																			8		8	100	0	0.61	ı	
													5.4							37		37	100	0	0.54	ı	
FRACTIONS	1000-500 87.7 0.5 0.5 0.3 9.5																1.2	0.3		399	126	525	76.0	24.0	1.38	İ	
PACT 5	00-250	80.9	4,9	0.3		2.3	2.3	7.2	0.3	0.3							1.5			346	1201	1547	22.4	77.6	6.50		
- 1 - 200 120 1/2 0117 M 1 01													86.7	59.25	İ												
SIZE	25-62.5	46.8				15.0	7.6	8.3									4.8			314	2567	2881	10.9	89.1	21.56		
Σ, 9	% > 62.5	54.00	13.32	1.30		6.19	4.17	15,84	0,07	0,43	0.36		0.22				4.10	tr		1421	5965	7386	19.2	80.8	10.03	< 62.4	

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	MPLE:	۸								DE	PTH	102)E:_				
WHO	LE SAMPI	LE DE	SCR	IPTI(ON:									<u></u>						LON	GIIC	JDE:	88 12	30		
									_S	IZE	FRA	CTIC	N D	ESC	RIPT	IONS	<u>`</u>									
	Ŏ most	ISH GRAY ly dull, led; one	worn f	ragmen	its, som	ne blac	ckened	and/o	r bore	d; one				dull fragn to wo aggre	to fro ents, rn, pl	sted, B. FOR ate an QUART	worn f AMmo d spin	ragmen stly w e frag	BONATE (ts, many hole, fi ments, slightly	blac esh NTRA	ckened and wo oliv	; fewen rn, ECM e gray	r fresh HINOID , friah	h, ang fresi ble	ular h	500-250
	most fres INTA		worn f angul	ragmen ar fra	ts, oft	en boi	red an NOID	d/or b	lacken lightl	ed;som y worr	e i fraqi	nents,		worn, ECHIN aggre	frost OIDm gates,	ed fra ostly QUART	gments fresh : Zcle	, B. F	BONATE (ORAMmand spin and spin slightly	stly e fr	whole agment	, fresi s, INTi	h and n RAfr	worn, iable		<u>250-125</u>
	YELLOWISH GRAY TO MEDIUM DARK GRAY, SHELLY CARBONATE SAND: MOLLUSC mostly worn, dull to frosted, fragments, many blackened; some are bored; fewer fresh, angular fragments, B. FORAMmostly whole and worn, ECHINOIDfresh to slightly worn plate fragments, INTRA olive gray, friable aggregates, QUARTZclear to slightly translucent, mostly subangular. LIGHT OLIVE GRAY, SHELLY, CARBONATE QUARTZ SAND: MOLLUSCmostly worn, frosted fragments, B. FORAMmostly whole, fresh and worn, ECHINOIDmostly fresh plate and spine fragments, INTRAfriable aggregates, X-CARBworn, frosted fragments, QUARTZclear to slightly translucent, mostly angular to subangular.																125-62,5									
											GRA	N T	YPE	s (%	s) ²											
		/ hi	135°						Stroll of		Sept 58	OHGE	YOMARIA BR	A COLUMN		Rai J		RECUES		Sign of the second				PEGLIA	CEE X	
لہ	4000-2000	34.7						5.3												19		19	100	0	2.09	
3	2000-1000	34.9						2.3					0.5				0.9	1.4		218		218	100	0	2.35	
SNO	1000-500		4.0	0.3		0.5	0.3						1.1				1.9	0.8		372	9	381	97.6	2.4	3.85	
FRACTIONS (4)	500-250					4.7	3.8	<u> </u>	0.6	0.6							3.8	0.3		316	495			51.0		
	250-12		24.7						0.3								9.1			308		1099				
SIZE	125-62.	_	13.2					12.2			0.3	1.3		-			9.9			304	1214	1518	20.0	80.0	26.08	

6.71 4.03 10.07 0.20 0.34 0.03 0.23 0.17

6.08 0.27

1537

2509 4046 38.0

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

											DE	PTH	l: <u>11</u>	4'											00 00		
WHO	HOLE SAMPLE DESCRIPTION: SIZE FRACTION													N D	FSCI	RIPT	IONS					··					•
		fragmen	its, so Ddul	me bor l, sli	ed and	RBONATE //or enci worn pla	rus te	d; one	valve	mostly has a	dull, worn	worn beak,			OLIVE worn, fewer	GRAY dull frest ECHIN	, QUART to fro n, angu	ZITIC, sted f lar fr resh t	ragmen agment o slig	Y CARB its, ma is, B. ihtly w i, most	ny bla FORAM- orn pl	ckened -mostl ate fr	; some y whol agment	are b e, fre s, QUA	ored; sh to RTZ		500-250
	2000-1000	fragmen	its, so	me bor	ed and	RBONATE I/on blac RYOZOAC	ckene	d, ECH	INOID-	-dull,	sligh	tly			MOLLU B. FO whole OSTRA	ISCmo RAMr E. ECHI ICOD1	ostly o nostly INOID fresh t	ull, w whole, fresh o slig	orn, f fresh to sli htly w	ML, SH rosted and w ghtly yorn, w unsluce	fragm orn, P worn, hole a	ents, . FORA plate nd fra	some b Mmos and sp gmente	lacken tly fr ine fr d valv	ed, esh an agment es,	s,	250-125
	500	mostly bored; fresh a	worn, some w ind wor	dull t mole v	o fros alves INOID-	GRAY, Sited frag with word -fresh translo	gment rn be to sl	s, mar aks, B ightly	y blac . FORA worn	kened; Mmos plate	some tly wh fragme	are ole,			worn, ECHIN X-CAR	frost IOID: IBwo	ted fra fresh p orn, fr	gments late a osted	, B. F nd spi fragme	RBONATE ORAM ne fra ents, Q o suba	mostly gments UARTZ-	whole , INTR -clear	, fres Afri	h and able a	worn, ggrega		125-62,5
			Į.	15° /5° /5° /5° /5° /5° /5° /5° /5° /5° /						HILD OF	- 7		ONGE ON			, 	J. R. R. L. L. L. L. L. L. L. L. L. L. L. L. L.		RACIO	\$\$\f\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	STATE STATE			No.	CAROLI V		
7	4000-2	2000	25.2						6.9					6.9							29			100	0	2.19	
FRACTIONS (4)	2000-1	1000	3.80						3.1					3.1							130		130	100	0	1.71	
NO	1000-	500	84.8	6.1	0.5		0.8	0.8	5.9					0.5				0.3	0.3		375	3	378	99.2	0.8	3.66	
ACT	500-	250	63.9	19.4	2.3		2.3	0.9	8.9					1.4				0.9			349	54	403	86.6	13.4	7.47	
	250 ⁻	-125	34.6	27.8	4.4		9.8	3.8	11.8	0.9	3.6			0.9				2.4			338	419	757	44.6	55.4	36.88	
SIZE	125-	62.5	46.1	13.2	0.9	2	20.7	1.3	11.3		0.6	0,3						5.6			319	1063	1382	23.1	76.9	33.79	
	Σ %>	62.5	52.26	18.50	2.51		8.94	2.14	9.93	0.39	1.67	0.05		1.20				2.38	0.03		1540	1539	3079	50.0	50.0	74.13	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	SAMPLE: 11A DEPTH:11										ተ፡ <u>114'</u>							JOW.	LA	TITU	DE:_				-	
WHO	WHOLE SAMPLE DESCRIPTION:																			LOI	NGIT	UDE	<u>87_5</u>	1 30	· 	•
	SIZE FRACTION													ESC	RIP	TION	<u>s_</u>									•
MEDIUM GRAY, SHELLY CARBONATE SAND: MOLLUSCdull, pitted fragments, mostly blackened, BRYOZOArelatively fresh and whole.													frag edge	in, ang ments, !s, X-C	B. FO	ragmen RAMm dull.	s; sor stly froste	UARTZ S me worn fresh a d,worn ubround	to si nd who fragme	noothe	d, shii hna wi	ny, bl	ackene	ely d	500-250	
	0000 DAF pit	K GRAY, M	OLLUSC orn, r	AN CAR ounded	BONATE fragme	SAND: ents, f	MOLLU BRYOZOA	JSCpi Aslig	redomi ghtly	nately dull a	blackend who	ened, le.		most	n, ang Iv fre	ular f sh and	ragmeni whole	s; fre X-CAR	QUARTZ esh who RBwo . suban	le sna rn. sh	il she	ells, i	B. FOR	ΔM	s,	250-125
	Som	TE TO DAR y worn, s e fresh, with chi ar to tra	niny,b angula pped e	lackene r fragn ddes.)	ed frag ments, X-CARB.	ments B. FOF	and du RAMre	ill, pi lative int fra	itted :	fragme:	nts; Lubolo	€,		X-CA INTR	ments, RBw	B. FO orn, fi able ag	RAM−-πα rosted	stly f fracme	QUARTZ : Fresh a ents, B JARTZ	nd who . CARR	le; so	me fra Inded r	gment:	S, ad frac	gments, lar	125-62,5
		_{\}	di ki						Strong Strong	, ;		IN T	,	, 	,	SRAL JI		RACIAS		STACE				o A BONIA		
1	4000-200	o _{39.4}				5.3							5,3	ł						19			190		4.11	
3	2000-100	0 95.9				0.7							3,4							146		145	100			
SNO	1000-50	0 77.0	7.9			10.6	2.4	0.5					1.6							379	243		_	39.1	4.84	
ACT	500-25	o 37.0	6.5	0.7		50.6							0.3		\vdash					308		1237				
FR	250-12	}		 		63.3		1.2	0.6								0.5								51.03	
SIZE FRACTIONS (4)	125-62.	-	5.9								0 -		0.3		-	 	0.6				1162				27.57	
٠,,	Σ%>62.	<u></u>	4.79			33.60	2.45		0.9		0.3		1,61				2.6 0.15							79.1	1.09	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE: 12A DEPTH: DEPTH: DEPTH: DEPTH: DEPTH: DEPTH: DEPTH: DESCRIPTION:												0,	.							ritui					
WH	OLE SAMPI	E DE	SCR	IPTI(ON:				<u>-</u>											LON	IGITU	JUE:	87 45	30		•
										IZE	FRA	<u>C 1 10</u>	ND	ESC	RIPI	IONS	<u> </u>									
					CARBONATE gments, ma									fragm X-CAR	ents, Bdu	B. FOR	AMre	lative d, wor	UARTZ ! ly fre: n fragr	sh and	whole	; some	are c	hipped	,	500-250
	o slig	atly worr n, angula	i to sm ir frag	oothed ments,	SHELLY CA I fragment BRYOZOA-	ts, n	many b	lacken	ed: fe	wer re	lative'	ly		fragm fresh	ents, plate	B. FOR	AMre ents,	lative X-CARB	UARTZ ! ly fre: dul lar to	sh and I to f	whole rosted	, ECHI	NOID	relati		250-125
	O and blac	OLIVE GRAY, SHELLY, CARBONATE QUARTZ SAND: MOLLUSCdull, pitted and bored fragments or worn to smoothed, shiny fragments; many are blackened, X-CARBdull to frosted, worn fragments, QUARTZclear to translucent, subrounded GRAIN TYPES (%) QUARTZmostly clear, subangular to subrounded. LIGHT OLIVE GRAY, CARBONATE QUARTZ SAND: MOLLUS mostly angular fragments, ECHINOIDfresh plate friable aggregates, QUARTZclear to translucent subrounded.															fragm	ents,	INTRA-		<u> 125-62,5</u>					
									1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	. 7	/				<u>, </u>	RIAL W		RIC NO.		STATE	# /4 10 1/1 10 1/1		(4× /0/	Riddle A	. Elej * 1	
4	4000-2000	95.0			2	2.0	3.0													61		61	100	0-	17.50	
3	2000-1000	92.0]	1.0	2,0						5.0							361	25	386	93.5	6.5	9.03	
ONO	1000-500	54.3	2.2		31	1.3	8.9	1.5		0.3			1.5							326	751	1077	30.5	69.7	16.29	
FRACTIONS (A)	500-250	32.1	6.2	0.9	42	2.1	14.6	2.2	0.6				0.3				0.9			321	2414	2735	11.7	88.3	48.29	
	250-128	16.6	3.8		54	4.3	12.1	3.5	1.3	0.7							7.7			313	2641	2954	10.5	89.4	4.98	
SIZE	125-62.5	11.4	1.7	0.3	141	4.3	23.0	4.4	0.6			0,6					13.7			343	1240	1583	21.7	78.3	0.21	
	Σ % > 62.5	70 12	1 25	C 14	1.0		F 47	0.50																		< 62 H

⁽i) SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	MPLE: 13	4								DE	PTH	! :11	4 '							TITUI				·	
who	LE SAMPL	E DE	SCR	IPTIC	_:NC					176	CD 4	CTIO			DIOT	IONS			LON	IGITU	JDE:	87 45	00		•
		H GRAY, angular							ree arc	sligi				LIGHT worn fresh	OLIVE fragme , whol	GRAY, nts, IN e and f	CARBON ITRAf ragmen	riable ag ts, X-CAF	Z SAND: ggregates gBdull bangular	, B. Fo	ORAMr osted,	elativ worn 1	frosted vely fragmen	i,	500-250
	fragme ellips	CH GRAY, ents; fe coidal a DAdull	wer re	lative able,	ly fres B. FOR/	sh, ang AMre	gular i	fragmen	nts, Pi	LLET-	-			worn ECHIN	fragme OIDr	nts, B. elative	. FORAM	relativ sh plate	Z SAND: vely fres fragment transluc	h and wards, X-Ca	whole, ARBc	some d	chipped frost	i, ed,	250-125
	S freste	IISH GRA ed, worn friabl Zclear	frag:: e aggr	ents; egates	fewer :	relati RBd:	vely fi ull, fi	resh, a	angula: , worn	r fragi	ments,			fragn shiny	ents, fragm to tr	INTRA ents,)	friabl (-CARB.	e aggrega dull to	SAND: MO ates, B. ofrosted subround	CARB	-mostly	rooms v	thea,	-	125-62,5
		/st							\$1.00 \ \$1.00	- 7	-/-	IN T			, 	RACE			CRUS TACK	* /3 \$ 23 \$ 23 \$ 35 \$ 35 \$ 35 \$ 35 \$ 35 \$ 35 \$ 35 \$ 3		DE /		t / th	
1	4000-2000	100																	l;			100	0	0.51	
FRACTIONS (4)	2000-1000	33.4	3,3	4					3.8				3.8						26		25	100	0	0.71	
IONS	1000-500	83.8	3.]			6.3		0.6					0,6				5,6		160	195	355	45.1	54.9	1.52	
ACT	500-250	14.0	7.]			61.8	4.3	5.0									7.8		322	3312	3634	8,9	91.1	28.14	
- 1	250-125	8.5	8.8			61.4	10.7	5.3		0.6							4.7		319	4440	4759	6.7	93.3	65.49	
SIZE	125-62.5	3.0	1.2	0.3		25.9	58.1	2.8					-				3.7		324	1885	2209	14.7	85.3	1.82	
	$\Sigma \% > 62.5$	27.12	6.84	tr		47.96	8.16	3.97	0.33	0.33			0.33				4.96		1155	9832	10,987	10.5	89.5	1.82	< 62 µ

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	AMPLE: 14A DEPTH:												: <u> </u>	4'							TITU					•
who	VHOLE SAMPLE DESCRIPTION:																			LC	NGIT	UDE:	87 48	00		•
	SIZE FRACTIO)N D	ESC	RIPT	TONS	3								•		
	4000-2000	OLLUSC- elative	dull ely fr	, worr	pitte ate fr	d fragm agment.	ments,	one b	lacker	ned, E(CHINOIC)			edges	nents, s, X-CA	some p ARBd	itted, ull. w	B.FO orn,f	UARTZ SAND RAMdull rosted fra brounded.	fraomeni	ts. som	e with	chinn	d ed	500-250
	≍ [] 1	itted 1	ragmei	nts: f	ewerar	CARBONA ngular, nts, QL	black	ened.	bored	fraome	ants. W	UBM			fragn	nents, s, X-C <i>A</i>	B. FOR \RBd	AMre ull to	lative frost	UARTZ SAND ly fresh ar ed, worn fi brounded.	nd whole	some	with	chinna	d	<u>250-125</u>
	2009 re	uil, wo Blative Nipped;	orn, po ely fre some	itted esh, a encru	and bo ngular sted, .	TIC, Sh red fra , thin X-CARB. rounded	igment fragm dul	s, som ents.	e blac B. FOR	kened; RAMwh	: fewer	ull.			B. CA	NRBf ments,	rosted some b	, shin lacken	y fragi ed. X-0	AND: MOLLU ments, ECH CARBworr subangular	NOIDs	pine a ed fra	nd pla oments	te.	ts,	125-62,5
		ŕ	ric ric							ELE OR	, -	GRAI				,	SRIL I		LA LA LA					, Reschie		
	4000-20	000	75.0						25.0		<u> </u>										4	4	100	0	0.91	
7) 8	2000-10	00	93.0											2.3					4.7	4	3 2	45	95.6	4.4	1.11	
ION	1000-5	00	20.5	8.5			5.9	0.4	0.9				-	2.1				0.4	1,3	23	6 148	384	61.5	38.5		
ACT	500-2	50	16.7	13.9	0.9		56.5	3.2	4.1		1.3			0.6				2.8		31	1	2985				
SIZE FRACTIONS (4)	250-1	25	15.8				55.7		6.3		0.6			0.0				3.2			1					i
SIZE	125-62	_ F	8.2	1.3													ļ			31	1			91.0		
- ,,,	Σ % > 62	2.5					40.8 2.32	41.5 3.69	4.9 6.21	1	0.7 0.67		0.3 tr	0.50				2.0	0.50		6 1742 2 7762			85.1 86.4	L	< 62 A

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	1.5.A		•						DI	EPTH	i: _174								TITL	JDE:	29 30		······	-
WH	IOLE SAM	PLE !	DESCI	RIPT	ION:				····						·				LO	NGIT	UDE	87_47	00		-
										SIZE	FRA	CTI	J NC	DESC	RIP	TIONS	<u>}</u>								
	4000-2000	INGID	gray, du	ill, pe	erforate	ed fra	gment.							wprn frost	ments, with o	and du chipped agments	ll, pitt edoes:	TE QUART ed, gray some agg clear	ish fra Lutinat	gments	, B.FCi	RAMwh Loarr	ole,s	lightl	500-250
	0001-0000Z	TE TO G gments,	RAY, SHE some bl	LLY CA ackene	RBONATE d, ECH!	E SAND INOID	: MOLL	USCdively 1	iull, fresh	angulan fragmer	r nt.			fragr	nents, en spir	B. FORA ne and i	\Mrela plate fr	TE QUART: tively fi agments, subangu	resh an X-CARB	d whole	e, ECH!	INOTES-	-dull.		250-125
	O ang	ular fri atively	GRAY QUA Egments fresh a arbonat	and du nd who	ll,pitt le. OUA	ted, bi	ackene	d frac	monte	R FC	Magn			landu	ar fra	aoments.	. B. EGR	TE QUARTZ AMrelat RTZclea	vivalv ·	frach :	and who	olo Y⊸	CAPR -	,	125-62,5
		_	Mai les						SHII PE	, 7	GRAI Strucoo			,		Je de la la la la la la la la la la la la la			RUE TACK			AUE/N	AREON A	egell v	
4	4000-200	0						100														100	0	0.13	
FRACTIONS (4)	2000-100	o [90	.0					10.0										_	10	 		100	0		
SNS	1000-50	<u> </u>		1.5		3.0	1.5			<u> </u>			3.0					_	+-	 -		 		0.25	
CT	500-25	$^{\prime}$	 	 													1.5		67	-	104		-		
FR/	250-12		6 23.1			† ·	15.7	6.3		0.8			0.8				1.1		364	2029	2393	15.2	84.8	5.44	
SIZE		16.	7 18.2	3.9		40.3	12.1	7.0	0.3	0.9							0.6		330	1677	2007	16.4	83.6	7 6. 96	
S	125-62.	9,	4 13.4	1		45.3	17.8	4.4		1.3		0.9	0.9				3.8		320	904	1224	26.1	7 3.9	3.42	
	$\Sigma \% > 62.$	5 19.1	3 18.03	4.01		36.73	12.51	7.41	0.24	0.85		0.06	0.24				0.79		1092	1647	5739	19.0	81.0	3.42	< 62 µ

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	MPLE:	16/	<u> </u>		•						D	EPT	H:!	120'									29 40			
WHO	OLE SAMPLE DESCRIPTION:SIZE FRAC													·.						LO	NGIT	UDE	<u>:87 37</u>	00	 -	- -
	,	2								_	SIZE	FR	ACTI	ON I	DES	CRIP	TION	S								
	4000-2000	MOLLUS	Cwhi	te, du	ll, pi	tted f	ragmen ,	t.							ECH wor	NOID	ragment: relativ ments, (SHELLY CAS 5, B. FORA vely fresh QUARTZcl	AMrela h nlate :	tively Fragmon	fresh	and wh	ole, s	ome ch		500-250
	O I	PINKIS relati relati infill	vely ii vely fi	nesh t nesh s	ragmeni late fi	os; so: cachent	Re dul ts. Rk	1, pit 70704-	tad fr	anmant	< CUM	TAINTE	-		fre	ments, h spin	B. FU! e and d	ARBONATE IAMrelat late frag transluce	tively fi ments.)	esh an -casa	d whole	e, ECH	INOID-		ively	250-125
	-500	PINKISH GRAY, QUARTZITIC, SHELLY CARBONATE SAND: MOLLUSCduil, pitted, worn fragments; some relatively fresh, angular fragments, B. FORKYmostly relatively fresh fragments, X-CARBduil, pitted fragments, QUARTZclear to translucent, subangular to subrounded, some quartz-blackened curbonal. aggregates. LIGHT OLIVE GRAY, CARBONATE QUARTZ SAND: MOLLUSCfrosted, worn fragments, B. CARBsmoothed, polished fragments, X-CARBduil to frosted, worn fragments, QUARTZclear to slightly translucent, subangular to subrounded.															.,	125-62,5								
ı	4000-2	2000	\(\frac{\partial}{2\partial}\)							HINOID SHINOID	, :	/	IN T	/		, 	ORDA N	SE LANGE		AUS AU			NOUS /	AREON A		
(M)	2000-	1000	100							<u> </u>	-				_					1	ļ	1	190	.0	0.33	
FRACTIONS (4)	1000-		63.2						10.5	 				10.5				15.8	_	19	ļ	19	100	0	0.25	
읽	500-		78.4	12.6			4.5		2.7		 			1.8		<u> </u>				111	79	190	58.4	41.6	0.50	
FRA			22.0	18.0	0.9		44.7	2,5	9,8		0.9		ļ	0.3				0.9		318	2743	3061	10.4	89.6	17.65	
SIZE	250		6.2	4.9	0.3		77 . 0	3.7	5,5		1.2							1.2		325	2865	3191	10.2	39.8	75.47	
	125-6 		10.2	2.2	0.6		58.7	23.5	3.2		0.3		0.3					1.0		315	2339	2654	11.9	38.1	2.73	
2	Σ % > ε	62.5	5.05	7.62	0.37		64.91	3.88	6.09		1.02		tr	0.28				1.38				Ţ.		60.1		< 62 /

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMF	PLE: 17/	<u>`</u>								DE	PTH	:21	6,											30 00		
WHOL	E SAMPL	E DE	SCR	IPTIC)N:			·			CD 4	CTIO	AL D			IONG			<u>. </u>				81 21	00		
	•									NZC	FRA	CTIO	ים אוי													
	Q dull,	bored,	encrus	ted fra), SHELL agments; fragmer	one								CARBON and bo and wh smooth	NATE SA pred; a nole, w ned, in	AND: inany b worn a ron-st	MOLLUS lackene nd chip ained	Cdul ed or oped, r fragmer	TZITIC, F l to fros iron-stai many iron nts, QUAR e quartz-l	ted fi ned, l -stain TZc	ragma B. FO ned, lear	nts, n IRAM1 X-CARS to tra	nany p fresh a 3mos ansluce	and who stly wo ent,	orn,	500-250
	O dull	Cdull worn; €	l, bore often c	d,encru hipped.	D. FORA usted fr BRYOZC and smoo	ragmer CAdi	nts, B ull fr	. FORAL agment:	Mmos s, X-C	tly wh ARB	ole, dull,	s.		to from B. FO!	osted RAMre smoot frost	fragme elativ hed an ed fra	nts, se ely fre d polis	ome pir esh and hed fra	ELLY CARB tted; man d whole, agments, TZclear	y bla some nost	ckene chipp iron-	ed or t ed, X- staine	lron-s: -CARB ed; so:	tained me dul	1,	25 0-125
	dull if fresh or iro	ragment and who in-stair	ts and ble; wh hed. BR	worn, s ole bu 70Z0A	AMINIFER shin/, i t dull, -dull, v orn, smo	iron-: worn worn	staine and c fragme	d frag hipped nts, X	ments, ; many -CARB.	B. FO black dull	RAM ened			froste whole aggree	ed fra , ECHI gates,	gments NOID X-CAR	, many fresh Bdu	angula plate a ll to	BONATE QU ar, B. FC and spine frosted, lar to su	RAM frag worn	relat ments fragm	ively , INT	fresh RAfr	and iable	o	125-62,5
		_i								• 7		N T						RACIAS			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		81 /% (0)5/	Priedly (
	000-2000	50.0			3	32.5							11.5							26		26	100		11.31	
FRACTIONS (4)	2000-1000	42.6	22.0		2	20.5	0.6	0.6					10.4	2.4				0.9	ı	63		463	100	. 0	21.47	
IONS	1000-500	24.3	42.3			18.9	1.9	2.1		0.2			6.8	1.5				1.5	1	71	2	473	99.6	0.4	31.75	
ACT	500-250	38.7	14.7	2.9	3	34.0	3.4	3.4		0.3		0.3	2.3						:	47	42	389	89.2	10.8		
1	250-125	35.9	10.0	3.6	3	37.6	7.4	3.6		0.3	0.3		1.0				0.3			09	190			38.1		
SIZE	125-62.5	38.2	7.7	1,5	2	23.7	4.9	5.5	0.3	3.7	0.6	0.9	0.9				6.1			27	370	697	46.9	53.1	0.77	
Σ	% > 62.5	36.03	24.02	0.86	2	6.22	2.00	1.88	tr	0.16	0.01	0.07	6.89	1.10			0.03	0.73	19	13 (604	2547	76.3	23.7	3.73	< 62 A

⁽¹⁾ SIEVE SIZE CISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMPLE: 18A DEPTH: 270' LATITUDE: 29 33 00																											
SA	MPLE:	18A	**								DE	PTI	-: 2	70'									-			· · · · · · · · · · · · · · · · · · ·	•
WH	OLE SAM	IPLE	DE	SCR	IPTI	ON:								•							LON	iGI I	ישטר:	87 24	00		•
						_					SIZE	FRA	CTIC	ON D	ESC	RIPT	IONS	<u>s_</u>									-
	Q bo	bred, e	encrus	ted fi	ragmen	ts, BP	YOZOA-	SAND: -dull, ted fra	often	infill	ill, pi ed, fr	itted, ragmen	ts,		dull and s whole and i X-CAR	to from the first term of the	sted, ragmer ORAM ained,	MINIFER pitted nts, ir-fresh ECHIN	fragm on-sta and wh OIDf ragmen	ents, ined, ole, a resh, ts. an	many b P. FOR nd who spine d worn	lacken AMre le, du and pl	ed; so lative ll, wo ate fr v. iro	eme smo ely fre ern, ch	othed sh and ipped	i	500-250
)OO bo	ored fi iny iro woothed	ragmen on-sta dand	ts, 2. ined.	. FORAI BRYOZO	Ywho DAdu	ole, du Oll fra	SAND: 11, worgnents iron-s	rn to s . X-CAE	smoothd RB. d:	d, and	i chip	ped;		MOLLU B. FO stain to fr	SCdu RAMf ed, EC ostad,	ll to resh a HINDID worn	fragme	d frag le: an h spin nts, o	ments. d whol e and	P. FO e, wor plate	RAMf n, chi tragme	resh a pped a nts. X	nd who ind iro -CARS.	le, n- dull		2 50-125
	009-0	BROWNISH GRAY, CORROBEO, FORAMINIFERAL, SHELLY CARBONATE SAND: MCLLUSCdull to frosted fragments, pitted or bored; many iron- stained or plackened, B. FORAMwhole, dull, worn, pitted and chipped, MCLUSCslightly dull to frosted fragments, INTRAfriable aggregates, B. FORAMfresh and whole, ECHINOIDfresh spine															D:	25-62,5									
												GRA	IN T	YPE	s (%) 2											
		,	/4°								. 7	. /			. /				RATE OF STREET		\$ 150 E						**
7	1 4000-2000 15.0												0	8.01													
3 (2	2000-10	00	7.3	24.4			56.6	0.9	1.2					5.7	0.9	0.6			1.9		320	1	321	99.7	0.3	23.20	
NOI	1000-5	00	30.7	19.4	0.9		25.	7 0.9	5.8					5.1	1.8			0.3	2.7		330		330	100		38.81	
2000-1000 7.8 24.4 56.6 0.9 1.2 5.7 0.9 0.6 1.9 320 1 1000-500 36.7 19.4 0.6 25.7 0.9 5.8 5.1 1.8 0.3 2.7 330 500-250 44.5 6.9 14.2 18.4 3.6 8.7 0.9 1.5 0.6 1.2 332 1												333	99.7	0.5	18.50												
FF	250-1	25	40.2	7.7	6.4		25.8	5.5	9.8	0.6	0.9			0.6				2.5			326	23	349	93.4			
		1	,		•	1	1									-				_							

Σ % > 62.5 29.25 16.00 3.34

0.41 1.86 0.22 1718

< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:_	19A		-							DE	PTI	ქ: _2	70'						LA'			29 27	00		
WHO	DLE SA	MPLE	E DE	SCR	IPTI	_:NC														LOI	NGIT	UDE	<u>87 24</u>	30		-
											SIZE	FRA	CTI	ON D	ESC	RIPT	IONS	_						- · · · · · · · · · · · · · · · · · · ·		•
	의 [LIGHT Opitted, fragmen	encru	sted.	bored	fracme	nts. B	3Y070A	dul1	. slic	thtly w	lull,			fragn B. FO iron- smoot	ents;)RAMf staine :hed, p	some smo Fresh and ed, P. F(polished	othe d who DRAM- , iro	d fragm le, and -mostly n-stain	AND: MOLLI ents, iron- whole, won fresh and ed, X-CARB hed, iron-s	-staine on to s whole: dull	ed or b smoothe ; some l to fr	olacken ed, chi whole, rosted.	ed, pped,		500-250
	8	BROWNIS fragmen iron-st polishe	ts, B. ained,	FORAI X-CAR	1who] 13du	e, wor 11. si	n to s tted.	moothe	d. som	e chic	ped, s	ome	red		B. FO stain and s	d frag RAMf ed, P. pine f	ments; s resh and FORAM ragments led, iror	ome who whol X-	worn to ie, and ∋ and f CARB	NATE SAND: smoothed, whole, smo resh, ECHI: dull to fro agments, QU	iron-s oothed, OIDr osted,	stained , chipp relativ pitted	i fragm bed and rely fr i fragm	ents, iron- esh pl ents.	ata	<u> 250-125</u>
	500	3ROWHIS Ditted and who iron-st polishe	fragme le, an ained,	nts; s d whol x-CAR	ome an e, dul 8du	gular 1. wor 11. fr	fragme n to s osted	nts, B moothe	. FORA d.ofte	Mrel n chim	ativel ned an	y fres d/or	- 1		fresh P. FO	to fr RAMf	osted, a resh and	ingul I who	ar frag le. INT	SHELLY CARE ments, B. F RAfriable RTZclear,	ORAM	fresh	and wh	ole, B	d.	125-62,5
			<u>/</u> &							Str of	, 7			YPE	, ,	,			A STATE OF THE PROPERTY OF THE				Jan S	and the state of t	in the second	
4	4000-2	000	13.3				73.3	4.5						8.9						45		1	100	0	9.25	
7) S	2000-1	000	5.2	9.3			72.1	5.9						2.5	2.9	0.3		0.3	1.5	323		323	100	0	23.23	
ION	1000-	500	14.4	22.5	0.6		49.4	2.5	4.2					2.6	2.8				0.9	354		354	100	0	27.37	
FRACTIONS (4)	500-	250	20.1	11.8	19.3		39.2	0.9	3.9		0.3			1.8				0.6	2.1	337	3	340	99.1	0.9	23.08	
	250-	125	31.3	10.8	13.3	j	30.0	4.7	7.4		0.6							1.9	_	323	17	340	95.0		6.92	
SIZE	125-6	2.5	28.4				27.1	5.1	3.9			1.2	0.5					19.3		409	125	534		23.4		
	Σ %>6	2.5			6.10			3.36			0.13				1.60	0.08			1.20		145				9.08	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

			DEPTH: 280'														STIT	<u>[UE]</u>	<u>TV</u>	COME	OS	ITE	NQ				
SA	MPLE	20.	A																					29 3	4 00		_
WH	OLE S	ΔΜΡΙ	E U	- - -	HOTI	ınnı.														:	10_	IGIT	UDE	87 1	7 30		- -
••••				-001	111 11			· · · · · · · · · · · · · · · · · · ·			SIZE	FR	ACTI	ON I)ESC	DID.	TION										_
	O.	YELLO:	/ISH GR	AY TO	MEDIUM	LCSTA	COSEO	DED CA	DDOMAT					OIN E													_
	4000-2000	i duii.	pitted worn	ana b	ored. •	worn f	ranman	te Y	CARB	-dull,	pitte	d and			blac cnip iron	: MUL kened ped; s -stain e frac	or ir ome wh ed, P.	on-sta ole, s FORAM X-CAR	pitted ined, woothe fres du	RTZITIC (or fros: B. FORAM- d and pol h and who ll, pitto t, subang	ed, -mos ishe le,	worn t tly wh d, bla ECHING	fragmen hole, w ackened DIDfi	nts, o worn a d or resh s	ften nd/or	- 4	500-250
	2000-1000	WOTH Tragments, QUARIZclear to translucent, subangular to suprounde																250-125									
	1000-200	and po pitted dull,	GREENISH GRAY, QUARTZclear to slightly translucent, subangular. MEDIUM GMAR, CORRODED, FORAMINIFERAL CARBONATE SAND: MOLLUSCdull, pitted, bored fragments, some blackened, B. FORAMmostly smoothed and polished fragments, many blackened, or iron-stained; some dull pitted, chipped fragments, CORACSdull, pitted fragments, X-CARBdull to frosted, worn fragments, INTRAfriable aggregates, B. FORAMpitted, chipped fragments, CORACSdull, pitted fragments, X-CARBdull to frosted, worn fragments, INTRAfriable aggregates, B. FORAMpitted, chipped fragments, CORACSdull, pitted fragments, X-CARBdull to frosted, worn fragments, coraclear to translucent, subangular to subrounded.																125-62.5								
												GRA	IN T	YPE	S(%	,) 2											ł
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							A STREET	, 7			,	,		C. C. W.		RACIA		POELS.				Section 1		
4	4000-2	2000	13.3				80.0							6.7	9						15		15	100	0	2.93	
3	2000-	1000	2.9	10.6			74.1	8.4	0.3					2.2	0.9			0.3	0.3		12	1	313	99.7	0.3	22.49	
NOI	1000-	-500	5.8	17.9	0.3		63.0	5.6						1.5	5.3				0.6	 -	341	9	350				
FRACTIONS (4)	500	-250	25.5	10.8	13.5		34.6	4.3	7.1		0.3			0.3				0.9			\dashv				11 7	31.64	
FR	250	-125	38.4	 			31.1		3.8			0.7	0.7						1,2	 	24	43	367	88.3		29.69	
SIZE	125-	6 2.5	37.8				23.9			0.0	0.6	0.3		0.3				1.3		 	18	41	359		11.4	6.84	
0,,			27, 10	0.0	201		47.5	4.2	2.2	0.0	ປຸວ	0.0	0.8				1	18.2			52	63	415	84.3	15.2	0.52	

tr 0.14 0.02 0.02 1.42 2.15

55.59 5.93 2.44

Σ % > 62.5 | 13.84 | 12.68 | 4.55

0.53 0.63

352 63

1819

< 62.4

1662 157

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	APLE:	21-A								DE	PTH	l:													
WHC	DLE SAMPLE	DE	SCR	IPTIC)N:			 .	S	SIZE	FRA	CTIO	N D	ESC	RIPT	IONS			 LON	-					
	4000-2000	· · · · · · · · · · · · · · · · · · ·				1																			500-250
	2000-1000																								<u> 250-125</u>
	000-200															,									!25-62.5
		/\$ ³								, -	GRAI	N T	YPE OLARII	S (%		cid' (iii)		RECURS VIOLE	STATE OF THE PERSON NAMED IN COLUMN TO SERVICE OF THE PERSON NAMED IN COLUMN T						%/
7	4000-2000	72.5	1.6	-	-	3.1	1.6	-	-	-	-	-	8.1	8.1	-	-	-		62	-	62	100	υ	8.09	
FRACTIONS (A)	2000-1000	36.5	0.6	-	-	24.3	23.2	1.9	-	-	-	-	3.3	9.9	-	-	0.3		362	-	362	100	0	11.21	
TORS	1000-500	42.1	1.7	C.2	0.2	13.0	25.3	3.1	-	-	-	-	6.6	6.4	-	-	1.4		423	7	424	99.8	0.2	12.56	
RACT	500-250	31.8	8.9	9.2	-	18.5	20.4	3.5	0.3	0.9	-	-	6.2	-	-	-	0.3		368	2	370	99.5	0.5	11.91	
	250-125	40.5	11.ξ	11.5	C.3	18.0	9.4	3.5	0.9	0.6	-	-	2.9	-	-	-	0.6		312	2	314	99.4	0.5	8.59	
SIZE	125-62.5	49.4	16.5	1.6	-	17.1	5.3	6.4	-	1.1	0.3	2.4	0.9	-	-	-	0.3		375	115	490	76.5	23.5	14.87	
	Σ % > 62.5	54.18	6.60	3.57	0.08	16.80	15.28	3.22	0.19	0.44	0.05	0.42	4.61	4.04			0.52		1902	120	2022	94.1	5.9	32.76	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	APLE:	22-A								DE	РТН	:		_												
WHC	LE SAMPLE	DES	SCRI	PTIC	N:_					SIZE	FRA	CTIO	N DI	ESCF	RIPT	IONS				LOIV	GIIC				· · · · · · · · · · · · · · · · · · ·	
	4000-2000					•																				500-250
	2000-1000																									<u> 250-125</u>
	000-200														. 2	,										125-62.5
		\.								, 7	/		YPE TOHARIN)			REP TO		St. St.				PER OF A		% /
7	4000-2000	41.7	-	-	-	50.0	-	-	-	-	-	-	-	8.3	-	-				36	-	36	160	_ 0	7.57	
FRACTIONS (4)	5000-1000	23.3	20.8	-	-	43.5	4.0	-	-		-	-	2.0	6.4	-	-	-	-		347	-	347	100	0	19.56	
NOI	1000-500	40.7	16.3	-	-	29.5	6.1	0.ε	-		-		3.7	3.1	-	-	-	-	-	356	-	356	100	0	25.36	
RACT	500-250	54.7	9.8	6.1	-	22.2	3.7	0.9	-	0.6	-	-	2.0	-	-		_	-		347		347	100	0	23.24	
	250-125	56.7	7.3	4.4	-	19.0	8.2	2.9	-	0.6	-		0.0	-	-	-	-	_	-	342	-	342	100	0	4.30	
SIZE	125-62.5	59.7	6.1	2.4	-	12.4	7.3	4.2	-	1.8	0.3	5.8	-	-	_	-	-	-	_	330	9	339	97.3	2.7	1.03	
	Σ % > 62.5	41 70	14 20	2.01		31 94	4 46	0:64		0.23	tr	0.07	2.26	3.30						1758	9	1757	99.5	0.5	18.87	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	23-A								Di	EPTE	1: _														-
WH(DLE SAMPLI	E DE	SCF	irqi	ON:_															LO	VGIT	UDE	·			.
										SIZE	rk/	40 I II	JN L	ESC	אור ו	rion	<u>s</u>									_
	4000-2000			de la contracto		•												3 -7-2-4								500 -250
	2000-1000																									250-125
	000-200																									125-62,5
											GRA	T NI	YPE	S(%	,) ²			***								ļ
		J.								, ,	//		, ,	, ,	,			RAT SO		ESTRAIN SAN			AN P	Aried No.		
7	4000-2000	83.0	-	-	-	-	-	17.0		-	-	-	-	-	-	Ĭ -	-	_	-	6	-	6	100	0	0.19	
M	2000-1000	75.4	-	-	-	1.8	1.8	14.0	-	-	-	-	1.8	5.2	-	-	-	-	-	57	-	57	100	0	0.47	
SIZE FRACTIONS (4)	1000-500	59.1	3.8	-	-	4.1	5.1	8.7	-	-	0.5	-	1.3	3.3	-	-	14.1	-	-	391	-	391	100	0	0.88	
ACT	500-250	37.2	8.4	12.6	-	5.8	0.8	6.1	1.0	3.0	0.3	-	_	_	_	-	24.8	-	_	395	4	399	99.0	1.0	1.26	
FR	250-125	43.1	14.4	10.4	-	6.2	0.3	6.7	0.6	3.4	-	_	_	-	_	-	14.9		-	355	6	361	98.3	1.7	6.38	
SIZE	125-62.5	55.0	11.1	1.1	-	12.3	4.0	9.5	0.6	1.7	0.3	-	-	-	-	-	4.3		-	349	112	461	 	24.3	37.90	
	Σ % > 62.5	52.93	11.18	3.05		10.70	3.28	9.01	0.58	1.96	0.24		0.05	0.13			6.89			1554	122		 	7.3		< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	MPLE:	24-A								DE	PTH	ł:										DE:_ JDE:				
WH(DLE SAMPLE	DE	SCR	IPTI(ΩN:_					SIZE	FRA	CTIC	N D	ESC	RIPT	IONS	 }_									•
	4000-2000					•										74										500-250
	2000-1000																									250-125
	000-200														. 2	,										25-62,5
		/H							A Strange	, 7	/	IN T	, ,		<u>,)</u>	- Rai (RAC'LAS		\$ 15 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
4	4000-2000	66.7	-		-	-	-	33.3	-	-	-	_	-	-	-	-	-	-	-	3	-	3	100	. 0	0.19	,
FRACTIONS (A)	2000-1000	55.0	2.5		-	5.0	-	35.0	-		-		-	-	-	-	2.5	_	-	40	-	40	100	0	0.28	
NOL	1000-500	38.0	3.7	0.2	-	2.3	1.8	17.	-	-	-	-	0.7	-	-	-	34.9	_	1	435	1	436	99.8	0.2	0.33	-
RAC1	500-250	16.5	4.1	ε.7	-	2.6	0.9	2.3	3.5	0.9	-	_	0.3	-	-	-	62.1	_	•	343	2	345	99.4	0.6	0.80	
	250-125	33.7	7.4	12.1	-	4.3	0.3	4.0	6.6	0.9	6.3	-	-	-	-	-	36.3	-	•	323	5	328	98.5	1.5	4.06	
SIZE	125-62.5	67.8	8.4	1.2	-	4.9	2.6	4.ć	3. 5	2.6	1.2	0.9	-	-	-	-	2.3	-	-	344	31	375	91.7	3.3	21.21	
	Σ % > 62.5	60.16	7.89	3.07		4.52	2.15	5.18	2.91	2.23	0.96	0.72	tr				10.12			1488	39	1527	97.4	2.6	72.86	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	25_2								DE	EPT	∃:														-
WHO	OLE SAMPL	E DE	SCR	RIPTI	ON:					0175							_		···-	LOI	VGIT	UDE	·			- -
	4000-2000					,				SIZE	FRA	10110	<u>JN L</u>	DESC	RIPT	ION	<u>S_</u>									<u>500-250</u>
	2000-1000																									250-125
	009-200																									125-62,5
		<u> </u>								, ,	GRA S		,	S(%	,			RACITY OF		, /ci			, 1015/ 1015/	Arte Chi	*(5) 1	
1	4000-2000	50.0	-	-	-	25.0	-	25.0	ĺ	-	-	-	<u>-</u>	-	-	-	-	-	-	4	-	4	100	. 0	0.30	
SIZE FRACTIONS (U)	2000-1000	71.2	-		-	-	-	22.2	-	-	-	-	2.2	-	-	-	4.4	-	-	45	-	45	100	0	0.23	
TION	1000-500	57.5	5.5	2.6	-	5.0	0.6	13.2	-	-	0.3	-	2.1	-	-	-	13.2	-	-	341	-	341	100	0	0.70	
HAC	500-250	33.7	11.5	29.6	-	7.1	0.3	3.0	0.9	1.2	0.6	-	1.2	-	_	-	10.9	-	-	338	5	343	98.5	1.5	3.83	
	250-125	55.8	9.1	16.4	-	6.9	0.9	2.4	-	0.9	-	-	2.1	-	-	-	5.5	-	-	330	10	340	97.1	2.9	12.68	
- •	125-62.5	61.5	10.2	3.3	-	7.6	3.8	6.4	1.6	-	0.3	2.9	-	-	-	-	1.9	-	-	314	20	334	94.0	6.0	22.44	
	Σ%>62.5	56.86	9.75	10.30		7.46	2.40	5.11	0.96	0.39	0.21	1.59	0.83				4.14			1372	35	1407	97.5	2.5	59,68	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	26-A		•						DI	EPT	H:			*.**.*********************************			<i>7</i>	<u> </u>		TITL	JDE:				_
WH	OLE SAMPL	E D	ESCF	RIPT	ION:	·				····					• • • • • • • • • • • • • • • • • • • •		•			LO	NGIT	UDE	:			
				·	··,					SIZE	FR.	ACTI	ON I	DESC	RIP	TION	<u>s_</u>									
	4000-2000			12			,																		· 	500-250
	2000-1000																									<u>250-125</u>
	1000-500	***************************************																								125-62.5
					_					_	GRA	IN T			s) ²											1
		_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	31, ⁴ 5						HI O		KRI E	OK ST	of Charles	art Co		SRIPL W		ROLL		NE THE	PA S	14	ADIS	and the		,/ /
7	4000-2000	64.3	-	-	-	21.4	-	14.3	-	-	_	<u> </u>	Í -	ſ.	-	<u> </u>			ĺ.	14	γ <u>`</u>	14	100	0	1	
FRACTIONS (4)	2000-1000	55.4	4.5	-	_	26.8	2.5	0.6	_	_	_	-	6.4	3.8	_		-		<u> </u>	157	2	159	98.7	1.3	1.95	
ONS	1000-500	57.0	7.7	-	-	24.0	7.4	2.5	_	-	_	-	4.9	2.5	_	_			_	325	41	366	 	 	3.10	
ACT	500-250	56.6	10.3	3.6	_	13.6	10.0	3.4	-	_		-	2.5		-	-			<u> </u>	 		 	-	11.2	3101	
FR	250-125	53.6		3.3			12.5	3.0				-		-	-	-	-	-		359	98	457		21.4	19.63	
SIZE	125-62.5	 	10.6	├─		11.2			0.3	-	-	-	-	-	-	-	-	-	-	329	131	460			20.11	
	Σ % > 62.5	58.43		 		14.56	3.9 8.21	4.00	C.07	0.3	-	0.9	1.86	0.62	-	-	-	-	-		C59	589			20.03	< 62 JJ

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	APLE:									DE	PTH	ł:										DE:_ UDE:				
WHO	DLE SAMPLE	E DE	SCR	IPTI(⊃N:_		•			SIZE	FRA	CTIC	N D	ESC	RIPT	IONS	<u> </u>			···						•
	4000-2000					•																				500-250
	2000-1000																									250-125
	000-200															•										125-62. 5
		\# ³							Hi Qi	, 7		IN T	, ,		,	Rath		EN TO		A ST ASS				production of	Coldina A	
4	4000-2000	190.0	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	_	2	-	2	100	О	0.22	
FRACTIONS (4)	2000-1000	65.7	-	-	-	8.6	-	6.7	_	-	-	-	20.0	-	-	-	-	-	-	15	-	15	100	0	0.11	
NOIL	1000-500	70.2	1.5	-		1.5	1.0	21.9	-		-	-	2.4	-		-	1.0	-	_	205	-	205	100	0	0.23	
RAC	500-250	41.2	18.2	21.5	-	3.7	0.3	7.1	-	3.7	-	-	3.7	-	-	-	0.6	-	-	325	3	328	99.1	0.9	1.18	
	250-125	50.3	13.1	19.2	-	3.3	1.9	4.8	-	1.3	_	-	0.6	-	-	-	-	-	-	313	7	320	97.8	2.2	7.68	
SIZE	125-62.5	63.1	8.1	0.9	-	9.2	3.7	8.3	-	2.6	2.6	1.2	0.3	-	-	-	-	-	-	347	43	390	89.0	11.0	23.89	
	Σ % > 62.5	59.63	9.56	6.16		8.61	3.03	7.43		2.26	1.80	0.85	0.59				0.03			1207	53	1260	05.0	1 2	1	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	A-85								DE	PTI	٠: <u></u>											···			•
WH	DLE SAMPLI	E SAMPLE DESCRIPTION:SIZE FRACTI																		LO	VGIT	UDE	<u> </u>			-
	o: [·····					SIZE	FRA	ACTIO	ON C	ESC	RIPT	TION	<u>s_</u>									•
	4000-2000					,		· · · · · · · · · · · · · · · · · · ·								W.M. &	•									500-250
	2000-1000																						192.61			250-125
	000-200																									125-62,5
			,	, ,	, , ,	,	, ,	e ,	, ,	, 7	, ,	IN T	YPE			,	. ,	, ,								
		<u> </u>							it o		RATO ST	OHOE	O'AFT	and John		260° / 1/2		RAC NO.		NE KE			IN' /	PERCH.		
4	4000-2000	38.5	-	-		41.0	2.6	-	-	-	-	-	2.6		-	-	-	-	-	39	-	39	100	·o	7.10	
FRACTIONS (4)	2000-1000	56.3	14.1	-		16.8	0.8	-	-	-	-	-	3.2	8.8	_	-	-	-	-	375	4	379	98.9	1.1	14.59	
NOL	1000-500	46.8	28.7	-	0.3	16.5	-	-	-	-	-	-	5.8	1.9	-	-	-	-	-	310	6	316	98.1	1.9	35.17	
RAC	500-250	69.0	8.9	1.5	-	15.2	3.1	1.8	-	-	-	_	1.5	-	-	-	0.3	-	-	335	59	394	85.0	15.0	36.20	
	250-125	58.0	2.7	0.3		25.3	12.9	0.3	-	-	-	-	-	-	-	-	-	-	-	302	78	380	79.5	20.5	3.15	
SIZE	125-62.5	75.9	2.5	0.9	-	12.4	4.0	3.7	-	-	ე.6	<u>-</u>	,	-	-	-	-	-	-	323	S6	490	79.0	21.0	0.32	
	Σ % > 62.5	55.70	16.48	0.53	0.11	18.28	1.33	0.64			tr		3.66	3.17			0.10		-	1684	233	1917	87.8	12.2	3.23	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	MPLE:	29-A								DE	PTF	ł:	<u> </u>									DE:_ UDE:				•
WHO	DLE SAMPLE	E DE	SCR	IPTK	_:NC					SIZE	FRA	CTIC	א ר	ESC	R!PT	TONI	<u> </u>			LUI	VGI I	UDE:		······································		-
	4000-2000					•																				500-250
	2000-1000																									250-125
	000-200														. 2											125-62,5
		1							THIO OF	, 7		ON T	, ,	S (%	,)	J.R.AL J.		RACIA		NETICE!		14				
4	4000-2000	57.1	-	-	-	14.5	-	28.6	-	-	-	-	-	-	-	_	_	-	-	14	-	14	100	. 0	1.71	
FRACTIONS (A)	2000-1000	50.0	8.4	-	-	16.0	7.1	-	-	-	-	-	3.9	7.1	-	_	-	-	-	226	- 1	227	99.6	0.4	4.22	
NO.	1000-500	40.0	11.4	0.6	-	19.6	16.1	4.1			-	_	3.8	4.1	-		0.3	-	-	342	14	356	96.1	3.9	7.78	
RAC	500-250	39.5	8.8	14.3	-	15.6	14.5	3.7	-	-	-	-	2.8	-	-	_	0.3	-	-	352	24	376	93.6	6.4	8.50	
ii III	250-125	63.8	11.5	4.8	-	7.4	4.2	6.4	-	0.9	-	-	0.3	-	-	-	0.3	_	-	312	16	328	95.2	4.8	2 5 .58	
SIZE	125-62.5	61.0	12.8	1.2	-	9.5	4.5	9.2	-	-	0.6	1.2	-	-	-		-	-	-	336	167	503	65.8	33.2	33.75	
	Σ % > 62.5	5€.42	11.27	3.91		11.08	6.87	7.40		0.32	0.21	0.40	1.07	0.89			0.16			1582	222	1804	87.7	12.3	18.45	< 62 A

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	20-4								Dā	PTI	∃:														
WHO	DLE SAMPLI	E DE	SCF	IPTI	ON:_									~~~						LO	NGIT	UDE	·		 ,	-
										SIZE	FRA	CTIC	ON E	ESC	RIPT	ION:	<u>S_</u>									-
	4000-2000					,																				500-250
	0001-0002																									250-125
	009-000																	···	*************							125-62,5
										_	GRA	IN T			,) 2											
		The state of the s							Till of		S. S. S. S. S. S. S. S. S. S. S. S. S. S	OHIGE AL	A CHEET	AN COR		SRAL W		REC' NO		SE TO SE			AL S	RECLE		
1	4000-2000	53.8	-	-	-	15.4		-	-	-	-	-	23.1	7.7		-	-		_	13	Ž .	13	100	.0	2.35	
B	2000-1000	40.5	11.1	-	-	31.5	-	2.4	_	_	_	-	6.0	8.3		 -	-	_	-	168	2	170	98.8	1.2	1	
FRACTIONS (A)	1000-500	57.4	17.0	1.3	-	15.1	1.6	0.9	-	-		-	3.2	3.5			-		_	312	28	340	91.8		18.41	
ACT	500-250	57.6	9.1	6.7	-	12.4	3.6	6.7	_	0.6	0.3	-	3.0	_		_	_			330	45	375	88.0		44.40	
FR	250-125	69.0	8.3	0.9	-	2.0	10.5	2.1	-	_	-	-	0.6	_		-	_		_	326	130	456	71,5		20.77	
SIZE	125-62.5	63.4	4.a	0.3	-	8.2	13.4	4.5	-	0.3	-	4.8	-	-	-	-	0.3	-	_	356	82	438	81.3		1.74	
	Σ % > 62.5	58.01	10.46	3.61		14.03	4.17	4.05		0.28	0.15	0.08	3.41	1.71			tr			1505	 		84.0			< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	MPLE:	31-A						DE	PTH	l:		_												
WHO	DLE SAMPLE	DESCRIPT	ION:					175	EDA	CTIC	N D	ECOI	דמוכ	······································	<u> </u>									
	0000			-				1121_	11174		114 0	_301	VIT 1	IONS	<u></u>									500-250
	4000-2000	····		•																				250
	2000-1000																							250-125
	000-2000																							1 25- 62.5
			/ . /	~/	Æ	, ,	,				YPE			, ,		,	. ,	. ,	. /	. ,	· . /		,	, ,
									10 R	SKE ST.	Oise to	OCULA COL				TAS (S)		EN SE						\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
7	4000-2000	12.9	-	67.7							9.7	9.7			_		_	31		31	100	o	5.91	
FRACTIONS (4)	2000-1000	31.8 7.5 -		41.0	0.8	0.€			_	-	2.8	15.5	_	-		-		359		359	100	0	25.69	
TION	1000-500	39.1 20.5 -		26.8	6.0	-					1.0	6.6				-	-	317	4	321	98.7	1.3	39.00	
RAC	500-250	56.9 13.2 1.	ઇ -	16.4	9.7	1.3	0.0	-		-	0.3	-				-		318	57	375	84.8	15.2	19.64	
t	250-125	52.5 10.3 2.	3 -	13.2	17.9	3.2		-	0.3	-					0.3	-		341	184	525	65.0	35.0	3.63	
SIZE	125-62.5	58.6 12.6 2.	<u>c</u>	11.0	6.0	8.3			0.3	_	-		-		0.6	-		301	149	450	67.0	33.0	1.35	
	∑%>62.5	29.14 13.74 0.3		31.1d:	5.12	0.58	0.11		0.01		1.91	7.88			0.02			1667	394	2061	81.0	19,6	4.49	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	MPLE:	33A								DEI	PTH	·								LAT						
WHO	DLE SAMPLE	DES	CRI	PTIO	N:				S	IZE	FRAG	CTIO	N D	ESCF	RIPT	IONS										
	4000-2000					,																				<u>500-250</u>
	2000-1000																									<u>250-125</u>
	1000-200														. 2	,										<u> 25-62,5</u>
		Į, i.c.								7	/	N T			·)	Rivi (RATE OF		ST WIE		29	05) pi /s/s	SECONO.		% / /
لہ	4000-2000	62.1	-	-	-	20.7	1 1	6.9	-	_	-	-	3.4		İ	-	~	-	-	29	-	29	100	0	15.37	
B	2000-1000	21.0	4.5	-	_	33.7	15.7	-	-	-	-	-	5.2	9.7	-	-	10.8	-	-	381	6	337	98.5	1.5	23.74	
SNO	1000-500	41.8	6.0	-	-	21.2	11.3	-	•	-	-	-	2.4	3.0	-	-	14.3	-	_	335	12	347	96.5		28. 3 7	
FRACTIONS (4)	500-250	34.1	10.2	2.4	-	15.0	13.5	0.6	-	0.3	-	-	0.6	0.3	-	-	23.0	-	-	334	25	359	93.0		20.57	
- 1	250-125	27.7	6.6	0.9	-	9.6	14.5	-	-	-	-	-	-	-	-	_	40.7	-	-	332	37	369	90.0	10.0	5.12	
SIZE	125-62.5	39.2	5.6	-	-	9.3	12.3	2.7	-	-	6.2	2.5	-		-	-	28.2	-	-	408	75	483	84.5	15.5	1.30	
	Σ % > 62.5	37.52	5.50	0.55		22.14	11.16	1.32		0.07	tr	0.03	2.75	4.63			14.33			1819	155	1974	92.2	7.8	5.20	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	34-	<u> </u>							DI	EPT	H:									DE:_				-
WH	OLE SAMPL	E DE	SCF	RIPTI	ON:													 	LOI	NGIT	UDE	·			-
				· · · · · · · · · · · · · · · · · · ·		·	····			SIZE	FRA	ACTIO	<u> </u>	DESC	RIP.	TION	<u>s_</u>								
	4000-5000						•																		500-250
	2000-1000																								<u>250-125</u>
	<u>000-500</u>																								125-62,5
						, ,					GRA	IN T			s) ²										
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							HILD SE		Sakos Sakos	OHGE /	ZONIZRI S	aid Col		Ser S			NE NE						
1	4000-2000	27.6	-	-	-	58.6	-	-	-	-	-	-	13.8	1	-	-	[_	 -	29		29	100	0	33.67	
77	2000-1000	46.0	4.0	-	-	23.8	2.1	0.3	-	-	-	-	5.2	18.6	_	1-	_	 	328	3	331	99.0	 	25.33	
FRACTIONS (41)	1000-500	46.3	13.7	-	-	16.8	2.2	0.3	-	-	-	_	3.8	15.6	_	† <u>-</u>	1.3	 	315	38	353	89.0		20.74	
ACT	500-250	59.0	4.0	1.2	-	19.9	10.4	3.2	-	-	-	-		-	_	 _	2.3	 	346	300	646	 -			
	250-125	56.1	7.2	0.6	-	22.0	5.0	1.3	-		_	-		_		 -	7.8	 	319		-		46.4		
SIZE	125-62.5	72.3	3.1	-	-	12.3	3.1	3.4	0.3	-	-	0.6					4.9	 -	325	427 92	746		57.2		
	Σ % > 62.5·	39.65	4.31	0.08		37.18	1.70	0.37				tr	8.25	8.47			0.53	 -		860		78.0	<u> </u>	9	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA																	ف و است.					JDE:				.
WH	VHOLE SAMPLE DESCRIPTION: SIZE FRACTION																			LO	NGIT	UDE	: <u> </u>			-
				· · · · · · · · · · · · · · · · · · ·					****	SIZE	FR/	ACTI	ON I	DESC	RIP	TION	<u>s_</u>									_
	4000-2000						•																		9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	500-250
	2000-1000																									250-125
	000-200																			***************************************						125-62.5
				, ,				a*	_		GRA			s(%	,) 2									•		1
		<u> </u>							SHIP OF		Star S	OHEST.	, / (c) (d) (d)	10 (St. 10 (St				CA THE		NE NE			NA P	S. E. BON	Cold of	
4	4000-2000	34.6	-	-	-	23.1	15.4	-	-	-	-	-	15.4	į		-	-	-	-	26		26	100	0 .	2.99	
FRACTIONS (4)	2000-1000	29.3	4.1	-	-	44.2	2.7	0.2	-	-	-	-	5.4	14.1	-	-	-	-	-	410	9	419	97.9	2.1	23.39	
NOL	1000-500	35.5	8.6	-	-	30.3	3.€	1.0	-	-	-	-	3.6	16.4	-	-	-	-	-	304	32	336	90.5		44.70	
RAC	500-250	59.1	8.8	0.6	0.3	17.2	8.8	3.1	-	0.6	-	-	0.9	0.6	-	-	-	-	-	320	267	587	54.5	1	22.67	
1	250-125	61.8	3.7	0.3	-	20.3	10.0	2.7	-	0.6	0.3	-	0.3	-	-	-	-	-	-	301	298	599	50.3			
SIZE	125-62.5	62.€	4.6	0.3	-	17.5	5. 5	8.9	-	0.3	-	0.3	-	-	-	-	-		-	348	169	517	67.3	32.7	0.45	
,	Σ % > 62.5	38.41	6.92	0.10	0.05	31.76	4.72	1.11	-	0.16	tr	tr	4.00	12.77						1709	775	2484	68.8	31.2		< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	36-7	,							Di	EPT	H:										DE:		····		-
WE	OLE SAMPL	E Da	ESCF	RIPTI	ON:											·		•••		LO	NGIT	UDE	<u>:</u>			-
	c: [SIZE	FRA	ACTI	ON [DESC	RIP	TION	<u>s_</u>	·								_
	4000-2000					,									,				·····							500-250
	<u>2000-0005</u>								*****																	250-125
	1000-500		**********													,										125-62.5
						_	_				GRA			S(%	,) 2											i
											THE ST		JOHARI S	A COLORA) St. it'/ () 1		RACIA		NE KEE				Selection of the select	in the state of th	10 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /
1	4000-2000	11.1	-		-	56.7	-	-	-	-	-	-	16.7	5.5	į	-	-	-	-	18	1	l	94.7	5.3	4.35	
FRACTIONS (41)	2000-1000	30.5	8.3	-	-	24.2	6.3	-	-	-	-	-	5.7	24.4	-	-	-	-		315	47	362	87.0	13.0	17.88	
TION	1000-500	21.4	8.7	-	-	25.3	29.0	0.3	-	-	-	-	0.6	14.4	-	-	0.3	-	-	355	145	500	71.0	29.0	42.83	
RAC	500-250	41.2	7.9	1.5	-	16.4	28.2	1.2	0.9	-	-	-	0.6	1.5	-	-	0.6	-	-	330	259	599	55.0	45.0	23.24	
11	250-125	47.1	10.6	1.1	-	10.9	28.3	2.0	-	-	-	-	-	-	-	-	-	-	-	350	242	592	59.0	41.0	3.18	
SIZE	125-62.5	63.0	7.0	-	-	8.2	9.7	3.2	-	-	0.3	2.4	-	-	-	-	1.2	-	-	340	240		58.6	41.4	1.05	
	Σ % > 62.5	28.47	7.93	0.38		25.10	21.68	0.54	0.26		tr	0.03	2.72	12.67			0.28			1708	944	2652	64.4	35.6		< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	WPLE:	37-A					-			DE	PTH	; <u></u>														
WHO	CLE SAMPLE DESCRIPTION: SIZE FRACTION														TOIS	פואסו	•			LON						
	4000-2000						•				1114				XII)	10113	2									500-250
	2000-1000																									250-125
	1000-200														. 2									·		125-62,5
		\rightarrow \(\frac{\pi_0}{2} \)								. 7		N T			.)	- 				SE KEE				Filed N		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
7	4000-2000	72.2	-	-	-	-	-	-	-	-	-	-	16.7		-	-	-	-	-	18		20	90.0	10.0	9.43	
<i>7</i> 9 8	2000-1000	33.3	6.4	-	-	24.4	2.0	-	-	-	-	-	8.3	25.6	-	-	-	_	-	312	24	336	93.0	7.0	24.18	
IONS	1000-500	41.7	15.7	-	-	21.9	3.4	0.3	-	-	-	-	1.5	15.7	-	-	-	-	-	319	64	383	83.3	16.7	30.91	
FRACTIONS (4)	500-250	65.0	8.5	0.9	-	14.6	5.7	2.8	-	0.6	-	-	1.6	-	-	-	0.3	-	-	316	221	537	59.0	41.0	23.06	
FF	250-125	67.7	8.8	1.5	-	11.6	5.2	2.8	-	-	0.3	0.6	-	-	-	-	1.5	-	-	328	471	799	41.0	59.0	6.91	
SIZE	125-62.5	62.5	8.6	0.3	-	10.2	6.8	9.5	0.3	-	-	0.9	-	-	-	-	0.9	-	-	325	288	613	53.0	47.0	1.40	
	Σ % > 62.5	49.14	9.40	0.22		10 21	3 10	0.03	1 0	0.11	0.01	0.04	5.10	14 53			0.12			1618	1070	2688	60.0	40.0	₹ 83	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	38-A								DI	EPT.	H:	·									JDE:			•	-
WH	OLE SAMPL	E DE	ESCF	RIPTI	ION:									······································		···				LO	NGIT	UDE	:			-
										SIZE	FRA	ACTI	ON I	DESC	RIP	TION	<u>s</u>									
	4000-2000			-		•	······																			500-250
	2000-1000																									250-125
	000-200																							٠		125-62.5
				,	,	,	,	w.			CR4			S(%	,) ²											•
		<u>/</u> *							THOO S		RECO	Oligh Oligh	TOWAR	AN CORN		, car		Car In S		NE NI		ひン・ ノ		Siedy.		
	4000-2000	37.5			-	59.4	-	-	-	-	-	-	3.1	-	_	-	-		-	32		ĺ	i	3.0) :	
\$ (4	2000-1000	49.6	2.5	-	-	13.8	4.7	-	-	-	-	-	11.6	17.5	-	-	0.3	-	_	361	12	373	96.8	3.2	16.85	
NON	1000-500	60.1	9.9	-	-	13.3	3.5	1.2	-	-	-	-	,3.7	7.7	_	-	0.6	-	-	323	61	384	84.0		32.48	
RAC	500-250	56.9	12.3	4.0	-	10.2	6.5	7.1	0.6	1.2	-	-	1.2	-	-	-	-	-		325	169	494	65.8		20.46	
SIZE FRACTIONS (AL)	250-125	56.4	14.2	4.1	-	2.2	5.4	5.7	1.3	0.3	-	-	1.9	-	-		2.5			317	135		70.0		12.86	
	125-62.5	58.8	8.6	0.3	-	7.7	7.7	10.8	0.3	0.6	0.3	3.1	0.6	-	-	-	1.2	-		325	152		68.0		10.45	
•	Σ % > 62.5	54.60	8.25	1.32		15.47	4.70	3.4 8	0.31	0.32	0.03	0.31	4.45	6.09			0.67			1683						< 62 <i>4</i>

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE: 39A	-,,,		•						D	EPT	Н:								LA	TITU	JDE:				_
WH	OLE SAMPL	E D	ESC	RIPT	ION:															LO	NGIT	UDE	:			-
									•	SIZE	FR	<u>ACTI</u>	ONI	DESC	CRIP	TION	S									
	4000-2000	·																								500-250
	2000-1000																									250-125
	000-200															···										125-62,5
	GRAIN TYP																									l
		/ ₁ / ₁ / ₁ / ₁	21 /20 21 /20						TE OID		STRACO	Chief	TONARI	A COLOR	A STATE OF THE PARTY OF THE PAR	SRAL W		RACIL		STACE NO NO	9t / 6		IN' (
4	4000-2000	44.4	-	-	<u> </u> -	22.2	-	_	-	-	-	-	11.1	Į.	1	-	-	-	-	9	3	12	75.0	25.0	i	
SIZE FRACTIONS (4)	2000-1000	46.5	3.1	-	<u> </u>	26.3	7.5	-	-	-	-	-	8.7	7.9	-	-	-	-	-	228	220	448	50.9	49.1	13.99	
NO	1000-500	53.7	7.7	-	-	24.8	4.2	0.9	-	-	-	-	5.4	3.3	-	-	-	-	_	335	429	764	43.8	56.2	38.04	
RAC	500-250	45.4	8.8	1.3	-	25.4	16.3	2.5	-	-	-	-	0.3	-	-	-	-	-	-	319	722	1041	30.6	69.4	35.15	
11	250-125	41.9	11.1	1.5	-	29.3	7.9	5.6	0.9	-	-	-		-	-	_	1.8	-		341	635	976	34.9	65.1		
SIZI	125-62.5	66.4	5.2	0.3	-	13.2	4.6	6.7	-	-	1.2	1.5	-	-	-	_	ე.9	-	<u>-</u>	327	141	468	69.9	30.1		
	Σ % > 62.5	49.41	€.81	0.40		24.98	8.02	1.47	0.05		0.03	0.05	4.58	4.10			0.10					3709	42.0		3.32	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:4)-A								DE	РТН	l:														
WHO	DLE SAMPLE	DE	SCR	IPTIC	ON:															LON	IGIT	JDE:				
					_				9	IZE	FRA	CTIC	N D	ESCF	RIPT	IONS	3									•
	4000-2000					•																				500-250
	2000-1003																									250-125
	000-200																							•		25-62,5
		\r.							Style of	- 7		N T						RIC NO				, / () () () () () () () () () (REGOVE A		
7	4000-2000	16.7	-	-	-	66.7	16.5	-	-	_	-	-	-	-	-	-	-	-	-	6	1	7	85.7	14.3	14.88	,
7	2000-1000	37.7	2.2	-	-	39.6	2.6	0.3	-	-	-	-	7.3	10.3		-	-	-	-	273	105	378	72.2	27.8	18.93	
IONS	1000-500	30.0	10.9	-	-	41.3	6.6	0.9	-	-	-	-	3.4	6.9	-	-	-	-	-	320	332	652	49.1	50.9	41.31	
FRACTIONS (A)	500-250	41.2	6.4	-	-	30.1	12.2	4.1	0.6	-	-	-	1.4	1.7	-	-	2.0	-	-	345	596	1041	33.1	66.9	18.21	
- 1	250-125	57.2	6.7	-	-	21.7	8.3	3.5	0.3	-	-	0.3	-	-	-	-	2.0	-	-	313	904	1217	25.7	74.3	4.40	
SIZE	125-62.5	50.8	5.9	0.6	-	21.9	9.7	5.6	-	-	0.9	0.9	-	-	-	-	3.7		-	328	310	631	50.9	49.1	0.36	
	Σ % > 62.5	30.68	5.53	tr		45.15	8.64	0.98	0.07		tr	tr	3.29	5.39			0.28			1578	2348	3926	40.2	59.8	1.67	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:4	1-A								DE	PTH	l:	······	_												
WHO	DLE SAMPLE	DE	SCRI	PTIC)N:_					17E	EB V	CTIC	רו ואו	-SCF	Tale	IONS										
	4000-2000										THA			_301	XII	10145	2									500-250
	2000-1000																									250-125
	000-200														. 2											125-62,5
		/4								. 7		ON T		. /	<u>, </u>	, Series (RIV OF		Street Williams			(N) (N)	READ TO		
1	4000-2000	66.7	-	-	-	-	-	-	-	-	-	-	33.3		-	-	-	-	-	6	1	7	85.7	14.3	1	
FRACTIONS (A)	2000-1000	73.5	6.3		-	10.9	-	3.1	-	-	-	-	3.1	3.1	-	-	-	-	-	64	2	66	97.0	3.0	0.72	
IONS	1000-500	69.8	7.8	-	0.2	12.6	1.9	3.4	-	0.7	-	-	2.2	0.7	-	-	0.7	-	<u>-</u>	412	284	ö96	59.2	40.3	2.03	
RACT	500-250	45.4	12.5	1.0	0.3	27.6	4.5	2.9	1.0	1.6	0.3	-	1.3	-	-	-	1.6	-	-	312	682	994	31.4	68.6	28.93	
	250-125	45.8	12.7	0.7	-	27.1	1.6	5.2	5.9	1.0	-	-	-	-	-	-	-	-	-	306	948	1254	24.4	75.0	56.42	
SIZE	125-62.5	58.6	8.9	-	-	20.7	3.4	5.0	3.4	-	-	-	-	-	-	-	-	-	-	358	351	709	50.5	49.5	5,81	
	Σ % > 62.5	49.06	11.71	0.68	0.11	25.20	2.67	4.20	3.56	1.03	0.11		1.03	0.11			0.53			1458	2268	3726	39.1	60.9	5.53	< 62 <i>H</i>

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	42-A		•						DI	EPT	H:									TITL					
WH	OLE SAMPL	E Di	ESCF	RIPT	ION:		··			·			······································							LO	NGIT	UDE	:			-
			·						_	SIZE	FR.	ACTI	ON I	DESC	RIP	TION	<u>s</u>									_
	4000-2000				······································	•																	***************************************			500-250
	<u> 2000-1000</u>																			70.000						<u>250-125</u>
	000-200																						•			125-62.5
					,	,		_			GRA	IN T	YPE	S(%	s) ²	_										;
									thing of		STERCO SE	01:56	TOMAR	A TOP		Set I		Rich Co		STACE STATE		r_{Z_2} ϵ	AND S			
7	4000-2000	76.5	-	-	2.4	l	-	2.4	-	-	-) -	11.9	l	4.8	-	-	-	<u> </u>	42	1	42	100	0	9.68	
7) S	2000-1000	82.9	2.0	-	3.4	2.6	4.0	1.1	-	-	-	-	2.8	0.9	-	-	-	0.3	-	352	2	354	99.4	0.6	15.02	
NO	1000-500	78.2	0.6	-	1.3	4.0	8.9	3.5	-	-	-	-	3.2	0.3	-	-	-		-	372	2	374	99.5		15.73	<u> </u>
ZACI	500-250	76.9	6.€	1.2	0.3	6.0	5.7	3.3	-	1.2	0.3	-	3.0	0.3	-	-	1.2	-	-	332	11	343	96.S		11.19	
SIZE FRACTIONS (4)	250-125	74.8	5.0	2.1	0.3	6.5	2.1	3.8	2.4	0.9	0.9	0.6	0.6		-	-	-	-	-	339	129	468	72.4		15.73	i
	125-62.5	68.6	6.1	1.3	0.3	6.7	2.5	4.1	-	0.9	4.5	3.8	0.6	-	-	-	0.6	-	-	314	43	357	\$8.0	12.0		; i
	Σ%>62.5	76.44	3.09	0.68	1.45	4.19	4.32	2.93	0.38	0.44	0.72	0.55	3.54	0.30	0.66		0.25	0.06		1751	197	10.70	20.1			< 62 <i>.</i> 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	E SAMPLE DESCRIPTION: SIZE FI																								
WHO	OLE SAMPLE	DE	SCR	PTIC)N:_		- <u></u>			IZE	FRA	CTIO	N D	ESCF	RIPT	IONS	<u> </u>									
	4000-2000						,			·																500-250
	2000-1000						`																			250-125
	000-200														. 2											125-62.5
		\range Fe							Tr. John St.	, 7	GRAI				·)			A ST		15 Kg 1			(Riv / 510			\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
7	4000-2000	56.6	-	-	4.3	4.3	-	-	-	-	-	-	26.1	8.7	-	-	-	-	-	23		23	100	0	4.30	
FRACTIONS (4)	2000-1000	67.8	1.6	-	0.6	:9.7	1.5	-	-		-	-	3.2	5.2	-	-	-	-	-	310	2	312	99.4	0.6	22.36	
NO.	1000-500	76.1	3.9	-	0.7	9.7	4.9	0.3	-	-	-	-	3.2	0.6	-		0.6	-	-	309	-	309	100	0	37.92	
RACT	500-250	70.1	4.4	0.3	1.3	7.0	15.7	0.6	-	-	-	-	0.3	-	-	-		0.3	-	318	11	329	96.7	3.3	28.03	
1	250-125	67.7	1.8	0.3	0.9	క.5	16.3	2.1	-	-	0.3	0.6	0.6	-	-	-	0.9	-	-	331	99	430	77.0	23.0	3.44	
SIZE	125-62.5	69.2	3.3	0.3	0.6	11.4	7.5	2.9	-	-	2.3	0.9	-	-	-	-	1.6	-	-	307	31	338	90.8	9.2	0.34	
•	Σ % > 62.5	71 20	2 57	0.10	1 00	131.03		0.36			0.02	0.02	3.32	1.86	1		0.28	0.09		1598	143	1741	92.0	8.0	33.27	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	46A								DE	PTH	٠										_				
WH	DLE SAMPL	E DE	ESCR	NPTI	ON:_							OTIO			DID.	71011				LUI	<u> </u>	UDE	•			•
									<u>ئے</u>	SILE	FRA	CTIC	JN D	250	RIP	ION										
	4000-2000						,																			500-250
	2000-1000																									<u>250-125</u>
	009-000										, , ,															125-62.5
											GRA	IN T	YPE	s (%	,) ²											
		/ \$										\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TO OF	10 /01 10 /01				Str. 10					In S			
7	4000-2000	30.0	-	-	-	13.3	-	6.7	-	Í -	-	-	-	-	-	-	-	-	-	15	Ĭ -	15	100	o o	1.41	
FRACTIONS (A)	2000-1000	62.5	3.5	-	-	8.3	6.9	1.4	-	-	-	-	6.3	3.5	-	-	7.6	-	-	144	-	144	100	G	2.39	
TION	1000-500	53.6	5.2	0.6	0.3	14.2	13.4	1.7	-	0.3	-	-	2.9	2.6	-	-	5.2	-	-	344	8	352	97.7	2.3	5.21	
RACI	500-250	€0.1	11.2	5.1	1.6	11.2	5.1	1.9	2.6	-	0.3	-	-	-	-	-	0.9	-	-	313	16	329	95.1	4.9	19.00	
3	250-125	69.2	7.5	0.9	0.6	7.8	10.6	1.6	0.3	0.9	-	-	-	-	-	-	0.5	-	-	320	ΰ 3	403	79.4	20.6	51.58	
SIZE	125-62.5	73.3	4.3	1.2	0.6	9.0	7.2	2.3	-	0.6	0.3	0.9	-	-	-	-	0.3	-	-	345	81	426	81.0	19.0	7.04	
	Σ % > 62.5	56.21	7.73	1.89	0.80	9.29	8.86	1.81	0.81	0.57	0.09	0.07	0.41	0.28			1.18			1481	188	1669	88.7	11.3	3.37	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	46A								DE	PTI	1:														
WHO	DLE SAMPLI	E DE	SCR	HPTI	ON:_					SIZE	FD/	······	א ר	550		ION:				Loi	VGIT	UDE	<u>;</u>			.
	4000-2000					,							JN L		NIF I	TON	2									500-250
	0001-0002					-																				250-125
	009-000																									125-62,5
		\display \di							THE OF	, 7		IN T	,	. /	,	, 		RACIA								\$\frac{1}{2\chi_0}\$
4	4000-2000	75.0	-	-	-	6.3	-	-	-	-	-	-	12.5	1	-	-	-	-	-	15	-	16	100	0	1.92	
FRACTIONS (4)	2000-1000	75.3	9.3	-	0.5	8.4	1.5	-	-	-	-	-	3.0	2.0	-	-	0.7	-	-	203	-	203	100	0	4.79	
NO!	1000-500	73.4	10.3	-	0.3	5.5	1.9	1.0	-	-	-		1.9	-	-	-	0.3	-	-	310	-	310	100	o o	3.20	
PACT	500-250	60.3	17.1	1.0	1.0	8.9	1.6	6.2	1.6	2.0	-	-	-	-	-	-	0.3	-	-	305	23	328	93.0	7.0	12.46	
	250-125	66.5	11.6	-	0.6	9.7	-	1.3	8.8	0.9	0.3	-	-	-	-	-	0.3	-	-	318	347	665	47.8	52.2	49.52	
SIZE	125-62.5	€8.2	5.6	-	0.5	14.5	1.1	4.8	-	-	1.6	2.9	-	-	-	-	0.8	-	-	377	309	636	55.0	45.0	10.44	
	Σ % > 62.5	68.13	11.34	0.21	0.61	9.18	0.86	2.49	4.06	0.79	0.29	0.30	0.96	0.36			0.37			1529	679	2208	69.2	30.8	12.57	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE: DLE SAMPLI		SCR	!PTI	ON:					DE	PTF	ł:											-			
									_ 3	SIZE	FRA	CTIC	ם מכ	ESC	RIPT	TON	<u>s_</u>									-
	4000-2000					,																				500-250
	2000-1000																									250-125
	1000-500																									25-62,5
		1							it jo	, 7		N T	,	, ,	,			RE TO		Note Significant				, Alegoria		
ţ	4000-2000	71.7			1	i	1	l	1	1	/ s	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		•	<u></u>	į	1					i	ł	l	•	
FRACTIONS (4)	2000-1000		-	-	1.5	<u> </u>	-	0.8	-	-	-	-	8.4	-	-	-	-	3.1	-	131	-	131	 	0	12.03	·
SNS	1000-500	£9.3	-	<u> -</u>	 	12.7	-	2.1	-	-	-	-	10.8	-	-	-	-	3.6	-	332	-	332	ļ	0	34.36	
CTIC	500-250	75.0	1.3	-	 	11.7	-	2.0	-	-	0.3	0.6	5.2	1.3	-	-	-	0.6	-	308	-	308	130	J	31.20	
FRA	250-125	63.0	4.1		0.3	8.3	-	4.7	-	0.3	0.9	5.6	2.6	3.5	-	-	0.6	0.6	-	341	-	341	100	0	15.31	
SIZE	125-62.5	65.9	3.1	0.6	-	6.8	1.1	2.5	0.3	0.9	0.9	15.9	0.3	0.5	-	-	1.1	-	-	352	12	364	96.7	3.3	3.59	
	Σ%>62.5	46.2 70.99	1.21	0.5	1.09	11.6 11.77	0.84	2.33	0.01	0.9	0.33	18.2	7.23	0.99	-	-	4.0 0.16	1.96	-	346 1810	5 17	351 1827	98.6 99.1	0.9	0.50 2.95	< 62 M

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	MPLE:	48A								۵.	EPT.	H:						-il	35.35.17	LA		JDE:				
WHO	DLE SAMPL	E DE	ESC	RIPT	ION:															LO	NGIT	UDE	:			-
		····							•	SIZE	FRA	<u>ACTI</u>	ONI	DESC	RIP	TION	<u>s</u>		, ,							_
	4000-2000			·		,						•													······································	500-250
	2000-1000														T											250-125
	000-200																 :								-	125-62,5
											GRA	IN 7	YPE	S(%	s) ²										·	i
			/55° 32°/50°/									Oligh N	, / 12 () () () () () () () () () (Sida' II		N S		NE STE				orge in		35/11
	4000-2000	92.0	-		-	-	_	8.0	-	-	-	-	-	-	-	-	-	-	-	12		12	100	0	1.71	
77 8	2000-1000	1.18	-	-	-	2.8	3.8	5.7	-	-	-	-	6.0	-	-	-	-	-	-	106	ì	107	99	1.0		
NOL	1000-500	74.0	5.3	-	0.6	5.3	10.4	2.2	-	-	0.3	-	. 1.9	-	-	-	_	_		318	2	320	99.4	0.6	4.05	İ
3AC1	500-250	70.9	6.7	0.9	0.3	4.7	6.4	2.9	-	1.4	1.4	1.2	1.7	0.9	-	-	0.6	-		344	5	349	98.6		10.93	1
SIZE FRACTIONS (4)	250-125	63.5	7.8	2.2	0.3	8.1	5.0	4.4	-	3.4	1.3	3.4	-	-		_	_			320		367	87.2		26.66	
SIZIS	125-62.5	63.8	4.9	-	-	8.9	3.6	3.3	0.3	-	5 <i>.</i> 3	4.9	-	-		-	_	_		304	37	341	89.0		17.93	
2	Σ % > 62.5	68.58	6.09	1.06	0.22	7.05	5.28	3.83	0.09	1.6:	2.27	2.94	0.69	0.17			0.10			1404	92		93.9		36.50	< 62 <i>4</i>

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	50A								DE	PTH	d:														•
WH	OLE SAMPLE	E DE	SCR	!PTI	⊃ N :_						<u> </u>					CON				LOF						• •
		· · · · · · · · · · · · · · · · · · ·								SIZE	rna	0110)N D		RIPI	TON	5_									_
	4000-2000						1								••••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										500-250
	2000-1000																									250-125
	000-200																									125-62.5
										_	GRA	N T			,) 2	_										
		\\ #\)							, 14, 10 24, 10		Sirio Si	Oligh Stage	TOTAL ST	THE CONTRACTOR				200 Jan		\$ 18 E						
_	4000-2000	62.5	-	-	-	-	-	-	-	-	-	-	31. 3]	_	_	6.2	-	-	16	_	16	100	0	1.39	
FRACTIONS (A)	2000-1000	76.0	3.5	-	-	6.5	1.5	1.0	-	-	-	-	10.0	1.5	-	_	-	-	-	336	-	336	100	0	8.63	
IONS	1000-500	67.6	9.2	-	0.3	9.2	3.7	1.7	-	-	-	-	Ç .3	2.0	-	-	-	-	-	350	-	350	100	0	24.72	
ACT	500-250	65.2	8.7	0.6	0.6	8.7	9.1	3.4	-	-	-	-	3.7	-	_	-	-	-	-	322	20	342	94.0	6.0	28.70	
	250-125	57.0	6.1	0.6	3.2	8.8	22.8	0.9	-	0.3	0.3	-	-	-	-	-	-	_	-	342	138	480	71.0	 		
SIZE	125-62.5	73.8	4.0	0.3	2.0	6.6	10.3	0.9	-	0.9	0.9	0.3	-	-	-	-	_	-	-	348	153	501	69.0	31.0		
	Σ % > 62.5	65.41	7.43	0.34	1 04	8 44	9.61	1 06		0.10	0.10	0.01	1 60	0.77			0.11			1714	27.1	2055	25.0	15.0	7 22	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE: OLE SAMPI		ESC	- RIPT	rion	<u></u> _				Ē.	EP1	H:_	*****								ATIT ONGI		: E:			
										SIZ	E FR	ACT	NO	DES	CRIP	TIOI	vs_									
	4000-2000					•																				500-250
	2 <u>000-1</u> 00 <u>0</u>												-													250-125
	000-200										-													-		125-62,5
			,	, ,	,	/ -	/	H.	,		GRA				' ₃) ²				······································					-]
		\\ \rac{\rac{1}{4}}{1}							CHILD		Sakoo		C. O. W.C.	ALI COL		SRAL A		Chi di						hele of	Ati.	, 05/01
	4000-2000	92.0	-	-	-	4.0		4.0	4	T -	-	-	-	-	-	<u> </u>	-	-	/ -	25	1 -	25	100	0		
	2000-1000	77.8	2.0	-	-	6.1	6.1	3.0	-	-	-	-	5.0	-	-	-	-	-	-	99	 	99	100	0	3.41	
	1000-500	€8.6	4.5	-	1.3	3.9	15.8	2.9	-	-	0.3	-	·1.8	0.9	-	-	-		-	380	2	352	99.5	0.5	1.08	
	500-250	51.8	7.0	4.5	1.4	9.0	9.0	3.4	-	2.8	-	-	1.1	-	_	-	-	-		356	4	350	99.9		1.46	
	250-125	60.2	13.3	5.5	1.9	7.8	2.9	4.6	-	2.3	0.6		0.9	-	_		-	_		308	7	315	-	0.1	2.87	
	125-62.5	63.2	9.7	1.3	0.3	10.6	4.3	5.0	-	3.3	2.3	-	_	_	_	_				301			97.8	2.2	15.31	
Σ	% > 62.5	64.60	9.64	2.55	0.82	9.00	4.23	4.64		2.61	1.40		0.49	0.02				-			13	314	95.9	4.1	28.72	
ΞV:	E SIZE DISTRIB	UTION	DATA	(WT. 9	%) PR	OVIDE	D RV	ı Dr)V! E			12	PER		1			1		1469	26	1495	98.3	1.7	47.16	< 62

SA	MPLE:	53A								DE	PTH	Ⅎ ᠄						. =					····			
WH(DLE SAMPLI	E DE	SCR	NPTI	ON:	·				SIZE	FRA	CTIC	ON E)ESC	RIPT	TONS	 S				VGI I		·			-
	4000-2000					,																				<u>\$00-250</u>
	<u> </u>																					,				<u>250-125</u>
	000-200																							•		125-62,5
		Ž								, 7		ON T		/	,									Section of		
7	4000-2000	63.6	-	-	-	9.1	-	-	-	-	-	-	27.3	1	-	-	-	-	-	11	-	11	100	0	1.84	
SIZE FRACTIONS (4)	2000-1000	76.4	0.3	-	0.3	10.0	3.9	1.0	-	-	-	-	5.8	2.3	-	-	-	-	-	309	-	309	100	0	8.17	
NOL	1000-500	76.9	4.6	-	-	8.7	2.8	1.5	-	-	-	-	.4.	0.6	-	-	-	-	-	325	-	325	100	0	21.95	
RAC	500-250	74.1	10.6	-	0.6	3.7	4.8	1.2	-	0.6	-	-	-	-	-	-	-	-	-	312	2	314	99.4	0.6	35.26	
L L	250-125	62.7	11.8	0.6	1.2	7.0	10.9	4.6	0.3	0.6	-	-	-	-	-	-	0.3	-	-	328	56	384	85.4	14.6	12.56	
٠,.	125-62.5	67.7	10.7	0.3	0.3	8.9	5.3	5.9	-	-	0.6	0.3	-	-	-	-	-	-	-	356	112	468	76.1	23.9	4.49	
	Σ % > 62.5	73.12	7.63	0.09	0.46	8.62	4.8೮	1.86	0.04	0.34	0.02	0.01	2.50	0.39			0.04			1641	170	1811	90.6	9.4	34.51	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	55A		•						D	EPT	H:								LA		UDE:	•••••			-
WH	OLE SAMPL	E D	ESCF	RIPT	ION:	·						·								LO	NGI	TUDE	:			-
				· · · · · · · · · · · · · · · · · · ·		·				SIZE	FR	<u>ACTI</u>	ON	DESC	RIP.	TION	S									_
	4000-2000						•											_			 <u>-</u> -					500-250
	0001-0002										,														**************************************	250-125
	000-200										-															125-62.5
				,	,			cr.	_		GRA			S(%	s) ²			-								,
		_{\frac{1}{4}}									Ten S	ONGE	YOUR RE	ard John				RE THE						* 60% () 010
	4000-2000	100.0	-	_	-	-	-	-	-		-	-	-	-	Í.	-	-	-	<u> </u>	5) <u> </u>	5	100			
77	2000-1000	50.3	4.3	-	2.1	35.3	2.7	1.1	-	-	-	-	0.5	3.2	_	-	0.5		-	187	_	187	100	0	0.98	
NO	1000-500	65.1	4.7	0.3	3.3	18.6	5.3	0.6	-	0.3	0.3	_	0.9	0.3	0.3		_		 _	303		├			5.52	
FRACTIONS (4)	500-250	27.2	9.6	5.1	4.2	13.8	3.6	3.0	31.1		0.3		1.5							 	1	304	99.7	0.3	6.80	
FR	250-125	24.4	1.9	9,3	3.1	14.3	7.8	1.9		 	1.2		1.9		_		-	-	-	334	-	334	100	0	7.19	
SIZE	125-62.5	32.4	8.5	6.6	2.0	29.2	2.6	3.9	9.2		4.6	-	- 1.9			-	-	-	-	322	5	327	98.5	1.5	5.81	
	工%>62.5	40.38	6.22	4.45						0.63		-	0.82	0.53	0.05	-	0.05	-	-	305		325	93.8		12.51	< 62 _H

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	56A								D	EPTI	Ⅎ :										JDE:				_
WH	OLE SAMPL	E DE	ESCF	RIPTI	ON:		·			· · · · - · · · · · · · · · · · · ·										LO	NGIT	UDE	;			-
	, 	·								SIZE	FRA	CTI	ON [DESC	RIP	rion	<u>s_</u>									
	4000-2000					·	1																			500-250
	<u> 20001-0005</u>										-															250-125
	1000-200																									125-62.5
					_	-				_	GRA		YPE		₂) ²											•
		41 ⁶									Ser Se		10 ² 4.2.2.2					St. S.						, 180°		**************************************
1	4000-2000	100.0	-	-	-	-	-	-	-	-	-	_	-	_	-	-	-	-	-	4	-	4	130	0	0.13	
FRACTIONS (M)	2000-1000	92.2	-	-	-	-	2.6	2.6	-	_	-	-	2.6	-	-				_	39	_	39	100	0		
ONS	1000-500	68.1	2.5	-	0.3	13.4	11.5	0.3	-	-	-	-	1.4	-	_	<u> </u>	2.5			358		358	100	0	1.00	
ACT	500-250	61.6	8.5	1.6	6.7	10.7	5.2	1.6	2.0	1.6	0.3		0.7	-	_		5.5			307	3	 		ļ	2.93	
FR	250-125	62.9	13.4	1.9		4.7	6.5	2.8			_		0.3				4.0			-		310	99.0	1.0	3.31	
SIZE	125-62.5	76.2	4.7	0.3			6.6	1.3			1.9		_		_		0.9			321	9 72	330	97.3		24.20	
	Σ%>62.5	68.20	8.67	1.16	1.12	7.05							0.36				3.00			1349		392		18.4		< 62 <i>J</i> J

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	57A								DE	PTI	l:										_				
WH	DLE SAMPLE	E DE	SCR	IPTI	ON:_															LO	VGII	UDE:				- -
										SIZE	FRA	CTIC	ON D	ESC	RIPT	TION:	<u>s_</u>									
	4000-2000	***************************************				•																				<u>500-250</u>
	0001-0002																									<u>250-125</u>
	000-200			45.54											. 2											125-62,5
									1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	, 7			YPE John	. /	<u>,)</u>	, Jak										
1	4000-2000	30.0		-	-	-	<u> </u>	10.0	-	-	-	-	_	-	-	_	-	-	-	10	-	10	100	0	0.66	
FRACTIONS (4)	2000-1000	82.5	-	-	-	8.8	5.3	1.7	-	-	_	_	1.7	-	_	_	-	-	-	57	_	57	100	0	0.47	:
ON	1000-500	71.3	1.7	-	0.6	12.3	7.5	0.6	_	-	-	_	0.3	_	_	_	5.7	_	_	348	_	348	100	0	2.25	
ACT	500-250	62. 4	7.6	0.9		16.9	2.8	0.9	2.3	0.9	_	_	_		_		3.2	_	_	316						
	250-125			2.2	<u> </u>	16.3	3.7	1.3	1.6	- 0.3			0.3				1.9	-		320	1	316	100 99.7	0	13.14	
SIZE	125-62.5	69.7	5.7	1.6	0.9	9.8	6.3	3.2	-	-	2.2	0.6	-	-			-	-	-	317	77	394			32.36 22.72	
	Σ % > 62.5	6 0.88	12.60	1.70	0.98	14.17	4.39	1.86	1.23	0.14	0.63	0.17	0.19				1.67						94.6		5	< 62 <i>4</i>

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE:		SCR	IPTIC	N:					DE	PTF	l:	,													
*****			0011						_ \$	IZE	FRA	CTIC	N D	ESCI	RIPT	IONS	<u> </u>									,
	4000-2000					•																				500-250
	2000-1000																									250-125
	005-200														. 2											125-62.5
		\range 12.00 \rang								· 7	GRA		YPE JUNIEN		<u>,)</u>	J. R. L. L. L. L. L. L. L. L. L. L. L. L. L.		The State of the S		NE STATE OF THE PERSON NAMED IN PROPERTY OF THE PERSON NAMED I				Still of		**************************************
1	4000-2000	165.6	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	3	-	3	100	υ	0.34	
FRACTIONS (M)	2000-1000	72.7	9.1	-	-	-	9.1	-	-	-	-	-	-	-	-	-	9.1	•	-	11	-	11	100	0	0.11	
NOL	1000-500	72.7	7.1		3.7	6.2	4.1	2.5	-	-	-	-	1.2	-	-	-	2.5		-	242	-	242	100	0	0.34	
RACT	500-250	45.6	27.6	1.2	7.1	12.1	1.7	1.7	0.3	2.4	0.3	-	-	-		-	-	-	-	340	2	342	99.4	0.6	4.70	
	250-125	53.6	20.3	2.2	2.2	14.0	2.9	1.9	0.6	0,9	0.3	0.3	-	-	-	-	-	-	-	314	3	317	99.1	0.9	22.05	
SIZE	125-62.5	73.5	11.4	-	0.9	7.4	3.1	3.4	-	-	0.3	-	-	-	-	-	-	-	-	325	112	437	74.4	25.6	34.27	
	Σ % > 62.5	62.96	16.62	1.02	1.90	10.49	2.88	2,59	0.26	0.59	0.28	0.13	0.15				0.64			1235	117	1352	91.3	8.7	37.96	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	61A								DE	PTH	ł:										_				
WH	CLE SAMPLE	E DE	SCR	IPTI(_:NC					SIZE	FRA	CTIC	ח או	FSC	RIPT	TONS										-
	4000-2000						•																			<u>500-250</u>
	2000-1000													The state of the s												250-125
	000-200										-				. 2											125-62.5
		<u> </u>								- 7			YPE		<u>,)</u>									Printy .		
4	4000-2000	100.0	-	-	-		-	-	-	-	-	-		-	-	-	-	-	-	8	-	8	100	0	0.76	
FRACTIONS (4)	2000-1000	90.0	-	-	-	4.4	2.2	2.2	-	-	-	-	2.2	-	-	-	-	-	-	45	1	46	97.8	2.2	0.65	
NOIL	1000-500	75.3	5.2	0.3	0.6	ટ.ક	5.2	1.3	-	-	-	-	- ·	-	-	-	3.6	-	-	306	-	306	100	0	1.74	
RACI	500-250	53.2	22.1	2.6	1.3	10.2	4.5	2.6	-	1.9	-	-	0.3	-	-	-	1.3	-	_	312	-	312	100	0	5.65	
	250-125	58.9	17.9	0.6	0.9	13.2	4.8	1.9	0.3	0.6	0.3	-	-	-	-	-	0.6	_	-	314	2	316	99.4	0.6	20.54	
SIZE	125-62.5	70.9	13.1	-	-	8.6	4.1	1.5	-	0.3	1.2	0.3	-	_	-	-	-	-	-	337	64	÷01	84.0	16.0	33.59	
	Σ % > 62.5	£5.63	15.15	0.49	0.45	10.25	4.34	1.72	0.10	0.54	0.70	0.14	0.05				0.44			1332	67	1389	95.2	4.8	37.05	< 62 H

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	62A								DE	PTH	 :									TITU					•
WH:	CLE SAMPLE	E DE	SCR	!PTI	ON:_					SIZE	FRA	CTIC	ON E	ESC	RIPT	TONS	 S									-
	4000-2000					,																				500-250
	0001-0002																									<u> 250-125</u>
	0.00-500														, 2											125-62,5
										, 7			, ,	S (%))	Star Hi							, Olis /			
1	4000-2000	60.0	-	-	-	30.0	-	-	-	-	-	-	10.0]	-	-	-	-	-	10	-	10	100	0	1.48	
FRACTIONS (M)	2000-1000	75.1	-	-	0.3	11.9	7.7	0.3	-	-	-	-	3.0	1.1	_	-	-	-	-	362	-	362	100	0	9,61	
ION	1000-500	69.1	4.0	-	0.5	12.0	10.1	1.6	-	_	-	-	1.9	0.5	-	-	0.3	_	-	376	-	376	100	0	50.C5	
RACT	500-250	58.8	4.3	-	2.3	14.8	18.7	1.1	-	_	-	-	-	-	-	-	-	-	-	352	2	354	99.4	0.6	29.57	
	250-125	65.6	8.3	-	0.6	11.5	10.3	0.9	1.6	-	-	-	-	-	-	-	0.6	-	-	313	10	323	96.9	3.1	2.22	
SIZE	125-62.5	72.4	7.2	0.3	-	12.0	4.9	2.3	0.6	-	0.3	-	-	-	-	-	0.3	-	-	350	118	468	74.8	25.2	0.63	
	Σ % > ε2.5	66.27	3.73	tr	1.10	1 3.15	12.40	1.27	0.04		tr		1.49	0.35			G.17			1763	130	1893	93.1	6.9	, 5.91	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	63A								DE	EPTH	Ⅎ ፡														
WHO	DLE SAMPLE	E DE	SCR	IPTI(ON:_					SIZE	FRA	ACTIO	ם מכ	ESC	กเคา	ION	<u> </u>		·							•
	4000-2000						t.																			500-250
	<u> </u>																									250-125
	000-200																									125-62,5
		\rightarrow \right							Strong of	, ,		IN T	,	, ,	,									A. F. C. C.		\$\frac{\sqrt{1}}{\sqrt{1}}
4	4000-2000	75.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.0	-	-	4	-	4	100	0	0.99	
FRACTIONS (4)	2000-1000	1.13	2.7	-	_	8.1	2.7	-	-	-	-	-	-	-	-	-	5.4	-	-	37	-	37	100	0	0.77	
NOL	1000-500	55.6	6.9	0.3	1.3	15.8	14.8	1.5		-	-	-	1.8	-	-	-	2.0	-	-	392	-	392	160	0	2.10	
RACI	500-250	52.6	14.7	0.6	2.4	11.8	6.8	2.9	0.6	4.4	0.3	0.3	-	-	-	-	2.6	-	-	340	2	342	99.4	0.6	4.20	
1	250-125	47.3	20.9	2.3	0.6	15.4	1.6	6.4	0.6	3.9	-		-	-	-	_	1.0	-	-	311	5	316	93.4	1.6	10.39	
SIZE	125-62.5	74.9	11.3	0.3	0.6	8.7	1.2	-	0.3	0.3	1.2	1.2	-	-	-	-	-	-	-	321	71	392	81.9	18.1	27.19	
	Σ % > 62.5	64.76	13.38	33.0	0.79	10.83	2.57	1.97	0.39	1.63	0.69	0.69	0.10				1.33			1405	78	1483	94.7	5.3	53.93	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	64A								Dā	EPTI	⊣: _											;			•
WH	DLE SAMPL	E DE	SCF	IPTI	ON:_					SIZE	FR/	ACTIO	ON F	ESC	RIP	TION	S				1011		•			- -
	4000-2000					,																				500-250
	2000-1000	-																								250-125
	000-200																									125-62,5
		J.H							TE OD	, ,	/	IN T	, ,		/	- Orlai		RET TO		NE TO SEL				Selection of		
4	4000-2000	75.0	25.0	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	100	0	0.32	
FRACTIONS (41)	2000-1000	53.8	2.6	-	5.1	.5.1	30.8		-	-	-	-	2.6	-	-	-	-	-	-	39	- 1	39	100	0	0.64	
NOL	1000-500	55.0	16.2	-	4.5	10.2	12.5	0.3		-	-	-	0.3	0.3	-	-	0.9	-	-	353	-	353	100	G	3.41	
RAC	500-250	38.9	24.6	0.9	2.3	11.1	12.5	2.3	3.2	2.1	-	-	0.3	-	-	-	2.3	-	-	342	12	354	96.6	3.4	9.58	
	250-125	45.€	10.6	1.9	0.6	21.5	4.8	2.6	0.9	0.9	0.6	0.9	-	-	-	-	-	-	-	312	20	332	94.0	6.0	15.97	
SIZE	125-62.5	64.3	17.1	0.3	0.9	10.6	1.2	4.1	-	0.3	0.9	0.3	-	-	-	-	-	-	-	339	130	469	72.3	27.7	20.13	
	Σ % > 62.5	51.52	19.22	0.95	1,41	14.33	6.25	2.80	1.02	0.86	0.51	0.42	0.14	0.02			055			1389	162	1551	89.6	10.4	19 54	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	65A								DE	PTH	<u></u> : ا												-		
V/H(DLE SAMPLE	DE	SCR	IPTIC	_:MC					SIZE	FRA	CTIC	N D	ESC	RIPT	Tons	 S			LON	(GIT	JDE:				
	4600-2000					•																				500-250
	0001-0002			*******																						250-125
	000-200																									125-62.5
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								, 7	- /	IN T	,	, ,	, ,			River Sol								
1	4000-2000	160.0	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	1	-	1	100	0	0.11	
FRACTIONS (A)	2000-1000	70.5	5.9	-	-	11.8	11.8	-	-	-	-	-	-	-	-	-	-	-	-	17	-	17	100	0	0.23	
IONS	1000-500	65.2	3.4	-	3.1	9.3	16.5	1.6	-	0.3	-	-	0.6	-	-	-	-	-	-	322	-	322	100	0	1.49	
RACT	500-250	52.7	21.2	0.6	2.6	11.7	8.4	0.9	-7	1.9	-		-	-	-	-	-	-	-	308	1	309	99.7	0.3	8.83	
i	250-125	61.0	12.2	1.1	2.3	14.6	5.7	1.4	-	1.7	-	-	-	-	-	-	-	-	-	352	9	361	97.5	2.5	23.97	
SIZE	125-62.5	70.4	14.2	-	0.6	7.3	1.2	4.3	-	_	1.2	0.3	-		-	-	-	-	-	346	230	576	60.1	39.9	22.82	
	Σ % > 62.5	62.43	14.09	0.65	1.89	11.91	5.26	2.14		1.19	0.34	0.08	0.02							1346	240	1586	84.9	15.1	÷2.31	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAM	APLE:_	21	01A							DE	PTF	l: 3	71										26 2			
WHO	LE SAM	IPLE	DΕ	SCRIPT	ION:_		····			رو- ۱		0710	V.S.I. D.		~	10110	 ,		L.(JNG			82 1	3 01		•
										oizt.	7 K.P	CHC	UN L	<u>ESU</u>	F(IP)	IONS										
	0 0	itted .	and bo	Y SHEELY C red fragme atively fr	nts: a	few who	ole, si	licatl	v worn	valva	ς.	ı		fres fort	JSCdi n, angi . ellin	all, wor alar fra asoidal-	n, pi Gwent Shau	itted o is. INT od. ECH	MTRACLAST or frosted TRAfriab HNOIDre on fragmen	frag le ag lativ	ments grega	s; few les, F frach	relat ELLET- plate	ively - and co	ine ed.	500-250
	-100C	loubuso. Tesher	most , angu Greì	7 TO LIGHT ly dull, w lar frayse atively fr s.	orn, pi ats. IN	tted an	nd bare arv fr	id frag lable a	gments. acoreca	, very	few	ly		worn ECHII dull	, pitto KOID: , worn	ed or fr relative	ostec ly fi lor f	l fragm resh pl rosted	LLY CARBO Hents, INT ate and s i fragment	RAf pine	riabl fragr	le agg nents,	nagate X-CAR	s, B		250-125
	00 5	ull, po lightly	itted, / worn	RAY INTRAC worn frag plate fra to slight	ments, grents,	-X-CARE	-friabl 3dul	ie agga	regates	. ECH.	INOID- agment			Worn	Tragme	ents. FO	HIMOI	Dnla	TE QUARTZ te and sp , QUARTZ-	ine f	na oco	onte	YECARR			125-62,5
		÷	/\$ ⁵							, 7		IN T		,	· · · · · · ·											
	4000-20	00	85.7					4.8									9.5			21			100	O.	2.65	
FRACTIONS (A)	2000-10	000	80.O	1.7			0.9	3,5									12.2	1.7		15	7	115		0	2.19	
ON	1000-5	00	63.7	0.9		7.5	0.6	4.5					0.Ġ				21.9	0.3	3	33	11	344	98.0	3,2	3.78	
RACT	500-2	50	55.7	1.0		5,4		5.1	5.4								26.8		3	14	43	357	38,0	12.0	9.53	
- 1	250-1	125	70.3	1.5	0.3	12.6		6.6	1.2		0.6						6.9		3	33 3	19	652	51.1	43.9	54.16	
SIZE	125-62	2.5	66.0	2.9		23.5	0.9	4.8			0.6		-				1.5			15 5	\dashv			61.4		
	Σ%>62	2.5	69.08	1.60	0.15	11.41	6.23	5.23	1.50		0.41		0.04				10.75	0.10	143	1 6	175	2306	56.89	43 11	8 85	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	<u> </u>	•								DB	PT	٠ <u>.</u>	i8'								JDE:_ TUDE				
WHO	OLE SA	MPLE	DE	SCR	IPTI	:NC					S175	FRA	ACTIC	M D		PIPT	lous						•	23 0		-
	4000-2000	MOLLUS(relativ	Cyell vely fr	owish resh p	gray, late fr	cull, p agment.	oittec	, encr	usted						VERY pitta ECHI: aggra sligh	LIGHT ed frag OID1 egates atly tr	CRAY S grents, relativ X~CAR	HELLY 3. FC ely fr Bdu ent, a	RAMw esh pl ll. wo	ATE QUART orn, whol ate and s rn fragme to round	e and f Dine fr Dis. OU	nagments ART7c	s; few , INTR/ lear to	blacke Afria	on and	<u>500-250</u>
	2000-1000	YELLOWI mostly finagmen through BRYOZOW SCHE GO	dull, str. B. s to cr s-cull	pisted 2004) appens Slid	i and b Wmost S; some obtiv w	Sce. 16	om fr a, se ats, ats,	agment Jative INTRA- d wite	s; fea ly fro -friat	v frest sh; so	ner, am Sine wer Sine cat.				tra⊊a dull, spine	ments, whole frame	some s e and f ments.	light! rajmen X-CAR®	y pitt ts, EC dul	ATE QUART ed; some HINOIDn l, worn fo to subro	rosted Pativa Pagment	, B. FO ly fres	RAMfi h plate	resh to e and	n)	250-125
		VERY LI CAPSONA fewer r fragmen aggraga X-CARB. translu	dE SAN Helativ des, us des, E dull	D: M ely fr cally CHINSI . worr	TLLUSC- reurjar worm, (Ure) N. bitb	-dull. gulan f exposin atively ed foar	piste ragola glint Tres mests	d and nts. 8 erior h spin	bored, . FOR Chamba e and TZ==c1	. worn Mwac ens, H plate bar to	fragas Die and TRAH fragas Nistra	ents; d friable ints, e+10	1		frost fraga	ed, wo lents, y clea	mm fra X−CARS	gments dul	, ECHII 1 to fi	LLY CARBO NOIDrela rosted, wo Dunded.	tively	funch	nlata s	ar eni	ne	125-62,5
			/ hi								, ;	7	IN T		. /	, ,			RACIA ST							36 /
7	4000-2	2000	50.0						50.0									•			2		100	0	tr	
FRACTIONS (4)	2000-	1000	56.7	23.9			4.5		2.9					6.0				6.0		1.3	4 1	135	99.3	0.7	1.65	
ONO	1000-	500	48.5	22.7			15.E	3.2	3.5					0.3				3.2	3.0	34	0 189	529	64.3	55.7	4.48	
ACT	500·	-250	47.5	11.4			20.3	4.]	8.2	1.9				0.3				6.3		31	5 1290	1606	19.7	SO.3	32.38	
i	250	-125	57.7	6.8			13.1	2.3	11.9	0.3				0.3				2.6		31	935	1245	24.9	75.1	51.53	
SIZE	125-		53.7				20.3	4.7	8.7				2.6					1.5		34	4 126	470	73.2	26.8	5.21	
	Σ %>	62.5	54.56	9.90		1	7.69	3.04	9.54	6.57			0.42	0.60				3.50	0.32	1446	2541	3987	29.38	70.62	. 3.69	< 62 <i>A</i> I

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:2	103A								DE	РТН	:12	б'	_						TITU	-				
WHO	DLE SAMPL	E DE	SCR	IPTI(ON:_			· · · · · · · · · · · · · · · · · · ·		175	FRA	CTIO	N D	FSC	TRIG	TONS		······································		NGIT!	JDE :	64 56	5 02		•
	S MOLLUS	Cdull	, WOCTI	, pitte	LIGHT OF ed fragg dull, wo	ments,	9:00.2	blacke	Y CARE	ONATE	SAND:			LIGHT SAND: blacke dull t worn f	OLIVE MOLLI med, o fro	GRAY T USCdu ECHINOI sted, w nts, QU	0 MEDI 11 to Drel orn, p ARTZ	froste ativel itted clear	GHT GRAY QUed, worn and by fresh pl fragments, to slight! ned carbona	d pitte ate fra X-CARB y trans	d fragi gments dul lucent	ments, , B. CA l to fr , subar	some ARB Tosted,	to	500-250
	MOLLUS B. CAR Wora,	Cdull Cdul Sitted	, worn. 1, word and bot	, pitte n, pitt red fra	GRAY Quand land land and and and and and and agreents some quants	bored bored QUAS	fragme ! fragm (TZcl	ents, s ments, ear to	ome 51 X-CARF trans	ackene dul lucent	ed, 1,			to fro some o fragme	sted, hipped nts,	worn f d; some X-CARB.	ragmen fragm dull	ts, B. ents, to fi	FE QUARTZ S. FORAMre B. CARB losted, wor bunded.	lativel dull to	y fresi froste	n and world, wor	whole;		2 <u>50-125</u>
	MOLLUS Worn, clea	Cdull pitted r to sl	, warn fragmen ightly	, pitte nts, X- trans	LIGHT Great fragrends of the control	ments, -dull, supan	. some .worn, igular	blacke pitte	ened, 8 ed frag	. CARE	3dul QUARI	1		froste INTRA- fresh	ed, wor -frial plate ents,	rn frag ble agg and sp	ments, regate ine fr	B. FO s, PEL agment	LY CARBONA DRAMrelat LETSfria ts, X-CARB, lightly tra	ively f ble, EC dull	nesh an HINOID to from	nd whol relat sted, v	le, tively vorn)	125-62.5
		<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									N T	YPE CHARLES	S (%		- Sitil S		Rich (S					\$ 1.00 %		35/5 3/0
7	4000-2000	€6.7				25.0							8,3						1	ı	12	100	0	1.61	
FRACTIONS (4)	2000-1000	59.7	0.4			16.3	18.0	0.9					3.0	0.4			0.4	0.9	23	5 13	251	92.8	7.2	6.82	
ION	1000-500	48.0	1.ĉ			23.2	24.8	0.9					0:9				0.3	0.3	31	5 34	. 349	90.3	9.7	24.84	
RACT	500-250	43.3	4.9			26.3	18.6	3.7					2.9				0.3		32	3 99	422	76.5	23.5	42.51	
FF	250-125	41.7	5.9			39.1	6.8	2.6	1.9	1.0							1.0		30	7 422	729	42.1	57.9	19.64	
SIZE	125-62.5	35.7	6.4	0.3		37. 9	2.1	5.2	4.5		0.3	0.6	0.3				6.7		33	0 112	442	74.7	25.3	0.54	
	Σ % > 62.5	1- 50	1 240		1	25 04	10.66	2 20	0.25	0.31	+ 5	+ 10	2.04	0.04			0.43	0.18	1520	685	2205	74 57	25 43	3 77	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

.					771	1600	1174	L. 6	4190	<u> Ş</u>	\ <u>L. I</u>			N FA C	<u> </u>	OW:	2 1	UE	<u> </u>	COM	<u>PO:</u>	SIII	<u>ON</u>				
SA	MPLE:		21044								D	EPT	H:	175'									_		24 59		_
WH	OLE SA	AMPL	E DE	ESCF	RIPTI	ION:				 											LO	NGIT	UDE	83	23 00	 -	-
											SIZE	FR	ACTI	ON	DESC	RIP	TION	<u>s</u>									-
	-200	YELLOW dull, BRYOZO dull,p plate	worn, ; Aslig itted,!	oitted Shtly : Dranch	fragm worn a ed fra	ents; nd inf aments	few re ilied, .some	lative some encru	ly fre encrus sted.	sh, an ted. C	gular OBALG	fragme	nts,		chip; dull	nents, Ded. <i>H</i>	B. FO ALIMED osted,	RAMm: 4dul	ostly 1. wor	ATE SAN relativ n fragm nts, X-	ely fr ents	resh a	nd who bored	le, so	ne warn	worn and	500-250
	2000-1000	YELLOW fragmen SORALG worn fi	nts, sc dull	ome so L. wor	rea, bi n. biti	KYOZGA: teć an:	dull : banea	, Worn di frac	and of	itan in <i>Patr</i> o	ofille 204⊒-d	₫, ₁11	ed		some dull	fragme to fre to fre	osted, ents,/ osted.	worn i <i>IAITMEI</i> worn i	iragme 74du fracme	HT GRAY nts, B. 11, ofte nts, so: nts, QUA	FORAN n wor na sma	Mrela n, fra nothed	atively agment: and si	y frest s, B. (n and w DARB	hole;	250-125
	20	YELLOW Worn for to dul' fragmen dull, v	nagment 1. most nts. 22	s, oft Ty who	ten pii Die wii Gedall	tted ar th chi: L. worr	id bord iped ed i frace	ed, B. Iyes, (Tents	FORAM- CORALG.	-relat dull	tively L, word	fresh	Ì		frage frash	nents, i plate Zcle	fresh, B. FOF and s	. angul VAMmc :pine f	ar, ti stly : raomer	E GRAY S nin-shel fresh ar nts, X-C anslucer	l fra id who :ARR -	igments Die, E(-worn	and w HINOII Frosi	vorn, f Drela Ted fra	rosted tively		125-62,5
			/ki							in the state of th	, ,	/		,	S (%	, 	J. R. R. L. L. L. L. L. L. L. L. L. L. L. L. L.		I LA LA		ST ST				a de Chil	L. Chillian	
4	4000-2	2000	20.6			5.9	35.3	2.9						!	20.6						34			100	0	3.03	
FRACTIONS (A)	2000-	1000	16.3	1.5		4.0	52.6	3.1						6.8	14.5				1.2		325		325	100	0	13.43	
NO.	1000-	500	33.6	8.4		12.7	20.5	10.7	1.7	0.3				1,7	8.1				2.3		346		345		0	20.57	
ACT	500-	250	33.2	12.0	1.6	_	23.3		2.6	0.3				1.6					1.0						-		
E	250	-125	27.4	6.5	1.0		26.4		3,6	0,7	0.7		0.7					, ,			309		309 200		0	41.14	
SIZE	125-6	52.5	40.9								0.3	2 5	0.3	1.3				1.3	0.3		307	2	309	99.3		15.€3	
	Σ%>6		31.83		0.87		41.9 28.51		2.15	0.19	0.05	0.3 tr	0.05	2.69	4.46			0.23	1.15		315 1636	7 9	322 1645	97.8 99.85	2.2	1.51	< 62 <i>H</i>

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	2	105A								DE	PTI	վ։ 3։	12 '									-	26 83			•
WH	OLE SA	MPLE	E DE	SCF	RIPTI	ON:_		·····			 17F	FR/	CTIC	אר ד)FSC	2.5.	TIONS				LON			. 83	-9 :	.9	- -
	-200	VERY LI and end CORALG. BRYGZOA encrust	:rusted dull !slig	l frag: , wor: ntly:	ments: n, pitt worn ar	few fro ted and nd infi'	eth, a bored	ngular Lenor	, thin usted	Cmostl shell fragmer	ly dul fragn	l, pit ents,			YELLO to fr worn relat	WISH to sm ively	GRAY SH , worn oothed; fresh X-CAR8	ELLY F and pi some and wh	tted f chippe ole wi tlv du	IFERAL magnent d; some th some ill to s agments	s, B. aggl frag hinv.	FORAM utinat ments, often	ldull ed for DRY02	to sn ms, P. MAWo	iny, FORAM mo		500-250
	001-00	YELLOWI worn, p smoothe SOPALC. innegul worn, r	ritted d, nos duli ar to	and bo tly wo , word worn,	ored fr ith chi n, pitt pitted	ragments ipped ed ied and	i, B. dges; : bored	FORAM- Hany a fragm	-dull ggluti ents,	to shir naced f X-CARB.	ny, wa forms, .–−dul	rn to	1,		dull angul P. FC	to fr ar sh RAM	osted, ell fra	worn f gwents whole	ragmen , 3. f and fr	IFERAL its; som ORAMr agments	e rel elati:	ativel velv f	y fres resh a	h, thi nd who	n, le.	hed,	250-125
	0-200	YELLOWI mostly to smoo some ag X-CARS.	dull,w th, me gletin dull	orn.; stly v sted : , worr	vitted whole w forms, n,pitte	fragmer mith eni COPALG. id frage	its, B ipped : dul	. f03A edges; l. won	Mdul some n. pit	l to so fresh a ted fra	diny, Ind wh Elment	worn ole, s.			dul! shell and f dull	to fr fragi ragine to fr	osted, ments, nts, EC	worn B. FCR HINOID worn f	iragee M~-fr fres	SHELLY ints and esh and h plate ts; som	mela: whole and:	tively e, P. spine	fresh FORAM- fracme	, angu -fresn nts. X	lar, t , wbol -CARB.	e 	125-62,5
			<u> </u>								7			, ,	S (%	,	CRIP (E)		ALC: NO		AN STATE						
4	4000-2	2000	21.2				45 . 5								21.2						33		ĺ	100	0	2.35	
FRACTIONS (41)	2000-	1000	12.7	14.3			55.8		0.9					2.4	9.4			3.3	1.2		330		330	100	0	15.54	
NOIL	1000-	500	23.8	14.5			53.2		2.0					2.0	2.9			1.5	0.3		344		344	100	0	33.79	
RACT	500	250	16.8	15.6	17.7		44.8		3.0					4.5							334		334	100	0	25.36	
	250	-125	25.7	12.2	24.2		32.1	0.3	2.5		0.9			1.8				0.3			327		327	100	0	12.10	
SIZE	125-	62.5	38.6	9.7	11.4		29.6		5,8		2.6	1.0	1.3								308	3	311	99.0	1.0	4.90	

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAM	IPLE:	2108	6A		•						DE	PTF	:550	!	_							_	26 2			
WHO	LE SAN	4PLE	DE	SCR	IPTI(ON:			,		317F	FRA	CTIC	N D	ESC	TOIS	ION	<u> </u>	·	LON	NGITI	UDE:	84 1	5 03		•
	의 네	ragment	s, BR	YOZOA-	-dull,	NATE SA worn, d fragm	CORALI	MOLLUS Cdu	Cdul 11, bo	1. wor	n, bor	ed			YELLO worn, chippe	wiSH G frost ed, P. ively	RAY FO ed fra FORAL fresh	DRAMINII igments irela: plate a	, B. FO tively	CARBONATE SA ORAMrelati fresh, whol ine fragment	vely f e and	resh a fragme	nd who nts, E	le, so: CHINDII	me	500-250
	0001	ülluss- ngular does. B	-most fragm RYOZO	ly cul ents, Adul	l, wor B. FOR l. wor	LIVE SR n, bore AMdul n fragm -dull,	d frag 1 to s	gments shiny, FORTS	; some worn, OISr	relat often elative	ively with	fresh, chippe	d		relati many u with o	ively whole chippe UIDf	angula snail d edga resh p	r frag shells s, P. I late an	ments a , B. FC FORAM	SHELLY CARSC and dull, wo ORAMrelati -relatively ne fragments	rn, fr vely f fresh,	osted resn a whole	fragmer nd who and fi	nts; le, son nagment	ne ts,	250-125
	1200 E	ostly d resh an . FORAM	iall,w id who ifre	orn, b le; du sh to	ored o ll to: slight	FERAL, r frost shiny, ly dull s, QUAR	ed fra worn : , mos:	agment to show tly who	s, B. uthed, ole, X	FORAM- often -CARS.	relat chippe	ively ed,	,		fresh OSTRAG whole	, angu CODt , P. F	lar, i resh, ORAM	thin she broken fresh,	ell fra valve whole	TE SAMO: MO agments and fragments, and fragmen dull, worn,	whole B. FOR ts, EC	snail AMmo HINOID	shells stly fi fresi	resh am m, plam	nd	125-62,5
			Ŷ.								, 7		N T		3 (%)	<u> </u>	- Seal	, 35 4 &								
	4000-20	000	21.5				57.2							7.1					7.1	14			103	0	5.32	
FRACTIONS (4)	2000-10	000	55.4	10.1			13.9	0.3	3.4					5.1	0.7	1.4		0.7	3.0	296		296	100	0	8.96	
ION	1000-5	500	34.5	16.0	7.3		26.9	1.8	5. <i>7</i>					4.3				1.3	1.2	331	1	332	99.7	0.3	9.05	
3ACT	500-2	250	14.4	18.0	47.5		9.9	0.6	5.7		0.3			2.7				0.9		353		333	100	0	18.5£	
	250-	125	37.3	10.7	25.4		16.0		7.2		2.5			0.9						319		319	100	0	27.61	
SIZE	125-6				9.9	1. 1	16.4		5.6		10.8	0.6	0.6							323		323	100	0	17.35	
2	Σ % > 6	2.5	35.71	11.02	20.96		13.84	0.38	5.56		3.02	0.12	0.12	2.33	0.51	0.15		0.44	0.87	1616	1	1517	99.97	0.03	12.99	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	APLE:	220	7 <u>A</u>								DE	PTH	∤:	63'											56 59		
WHO	LE SA	MPLI	E DE	SCF	NPT!	ON:_								• • • • • • • • • • • • • • • • • • • •							LON	IGITI	JDE:	83	09 00		•
											SIZE	FRA	CTIC	ON D	ESC	RIPT	TONS	<u>S_</u>									-
	4000-5000	VERY L fragmen BRYOZO, and ca	nts; sc 4dull	one en L, sli	crusted Shtly v	and i	ored.	ECHINO	NDdu	ill bla	te fra	oments			MOLLU B. FO	JSCmo DRAMv usted.	ostly d whole a FCHING	lull, w and fra NIDre	orn, f gments lative	rosted , both lv fre	fragm fresh sh bla	ents, and w	some b arn; s	Nacker ome si	E SAND led, ightly ments, ingular	,	500-250
	-100	VERY L duil, encrus fragmas modera	froste: ted; s: uts, £0	i and p Dre wor Drinoi:	pitted nu beak Drela	fragme s, 8. tively	ents, s FORAM= fresh	ome bo -fresc plate	ored;so n to wo	me bla rn, wh	ckened ole an	i and id			MOLLU both QUART	ISCdi fresh IZclo	SRAY QU ill, fr and wo ear, so agments	osted, rn, EC bangul	worn HINƏID	fragre	nts, B h plat	. FORA e and	Mwho spine	ie and fragme	fragm ints.	ents,	<u>250-125</u>
	500	MEDIUM MOLLUSA B. FORM ECKINO frosted	0+-mast Mwho IDrel	ily du de and ative	ll, wor d frace	n, rro ents.	sted f	ragmer resh a	its, so ind wor	me bla n: som	ckenso e blac	kened.			fragi	ents, and s Zcle	B. FOR	AMmo ragmen	stly f ts, X-	resh a CAR3	nd wno -dull.	le, EC	CIONIA	most	l, fro ly fre gments	sh	125-62,5
			/M										ON T	,	, ,	, 	PRAIL (I)		RAP JOS		SE AND				, peroli	in in the second	\$\f\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	4000-2	2000	60.0		ļ		ļ		20.0					20.0							10		10	100	Û	0.24	
77 8	2000-	1000	46.7	38.3		0.8	5.0	0.8	5.7					1.3				4.2		0.4	240		240	100	0	1.25	
NO	1000-	500	56.0	23.7		2.1	6.1	3.5	5,6					0.6				2.1	0.3		341	1	342	99.7	0,3	2.31	
SIZE FRACTIONS (4)	500-	-250	43.5	30.3		0.3	10.9	2.9	11.2		0.9										347	2		99,4			
	250	-125	45.0	17.9		2.3	21.5	1.9	9.1	1.3		0.7	0.3								307	132		69.9		47.24	
SIZE	125-	62.5			0.3				1				4.3								300						
•	Σ %>0	62.5								0.75	0.12			0.14				0.17	0.02	0.02					35.67	2	< 62 <i>u</i>

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMPLE	E: 22	A80								DE	PTH:]	107'							NTITU ONGIT					
WHOLE :	SAMPLI	E DE	SCR	!PTI	_:NC				S	17F	FRAC	TIO	N D	FSC	RIPT	TON!									•
4000-2000	MCLLUS slight	Cone ly enci	is a m	relativ fragme	ely fi	resh, v	whole :	pivalve	e; one i					YELL rela fragi and i	OWISH (tively ments; whole, tively	GRAY FO fresh, many t often fresh	RAMINI angul resh, chippe	ar frag whole : d; some nts, X-	SHELLY CAS gments and snail she' e agglutis -CARSdurounded.	dull, ls.B.	froste FORAM-	d, piti	ed / fresh	S ,	500-250
0001-0002	YELLOW mostly one wn B. CAR fragme	relati ole sna Bdul	ively mail, Ed	fresh. CHINOIO	whole rela	bival Li:ely	ves and / fresh	l fresh i plate	AND: MO h, angul e fragme pitted	ar fr nts,	ragments;			rela B. Fo plate	tively DRAK+-r e and :	fresh, mostly	, angul fresh madmen	ar frag and who ts, X-0	IFERAL CAR gments and ole; some CARBdul angular.	dull,	froste L. ECHI	d frage NOID:	ents. Tresh		250-125
1000-200	fragme	pitted nto: so some i	and fr Sme dul Fresh, I, worr	rosted II, sli whole I, pitt	fragmo ghtly snails od fra	ents; s word, s, B. (equents	some re whole CARB	native bivalv dull.	MOLLUSC ely fres ves with pitted loar to	h, an worm frace	ents.	,		fragi fresi	nents, 1 plate	B. FOF ≘fraga	AMre ∷ents,	lativel X-CARB.	TE SAND: ly fresh a dull, i rounded.	nd whol	e, ECH	INGID	relati	ted vely	125-62,5
1 4000	0-2000	/1h								7	GRAIN	/			,			/5°		7	Ĭ	,	Care Con		
	0-1000	100									-				-					2	2	100	0	1.83	
NN ISS	0-500	53.8	1			 	30.8	7.7	}						-		ļ		- 3	6	26	100	0	0.29	
Ħ		52.7	3.0			15.8	12.5	2.1				<u> </u>	1.2		ļ	 	2.1	0.6	33	5 3	338	99.1	0.9	1.25	
RAC	00-250	37.6	22.0	0.9	1.3	24.2	8.3	4.1	 	1.3		_						0.3	33	.4 ;	321	97.8	2.2	2.83	
<u>ப</u> 25	50-125	23.7	39.7	1.0	0.3	16.4	1.9	10.4		1.0		0.3						0.3	33	.7 8	325	97.5	2.5	9.03	
O Ji	5-62.5	38.8	13.7	0.3	1.3	36.1	1.3	7.2				1.3							30	7 63	370	83.0	17.0	25.46	
Σ %	> 62.5	40.29	19 50	0.51	0.04	27 61	2 :0	6.00	ΙT	5.5		02	0.00				2.00	2 20	1,22		1,222	22.5	,, ,,		< 62

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARSONATE

	MPLE:									DE	PT	l:	110'										27 83			
WH	OLE SAMPL	E DE	SCR	IPTI	ON:_				S	IZE	FRA	CTIC	ON D	ESC	RIPT	TONS	<u> </u>				······································					
		Crela crusted								ightly	/infi	lled		nelut many some	ively fresh, chippe	fresh, whole	angula snail UNOID	ar frag shells fresh	gments s, B. í plate	and du FORAM fragmo	ill, fr relati ints,)	rosted ively : (-CARB	KCLLUSC fragme fresh a dull	ents; and who		500-250
	00 Invole	IGHT GR and fra IDfre -lithif	gmonte: sh pla	d bivai te fra	lvas, gments	soirc e	norust	ed; sor	na worn	beaks	5,			fresh fresh some	, thin , whol frague	angula e snai	ar frag 1 shell CHINOIS	ments Is, 8. Dfre:	and ou FORALL sh plat	ull, fr rolat te and	rosted rively spine	fragme frash fragme	MOLEUSC ents; m and wh ents, X	any ole,		250-125
	O kngula	IOHT CR n bival bivalve d, ECHI nts.	va fra s, som	gments e with	and d worn	ull, f. Seaks,	nostea B. FOS	fnagm. RAMd.	ants; s all, wh	one di ole, d	ill, often			austl B. Fû fragm	y dull RAMm ents,	, fros ostlv	sed fra fresh a dul	iguents and who	s; some	e fresh CHIMOID	i, whol)fres	le snam	WILUSC il shel te and clear,	ls, spine		125-62,5
		/*											YPE JOHAN		,	- - 		RAP SO								
4	4000-2000	71.4	14,3										14.3							7		7	100	υ	0.53	
FRACTIONS (41)	2000-1000	71.5	2.0			2.0	t.1	14.4		************			2.0				2.0			49		49	100	0	0.76	
LION	1000-500	67.6	7.1	0.3		11.5	4.9	3.6		0.3			1.6				2.5		0.6	364		364	100	C	1.52	
RACI	500-250	37.2	31.9	1.3	0.3	13.1	2.2	5.9		1.3							1.8			320	4	324	98.8	1.2	5.87	
- 1	250-125	3€.2	35.5	1.9	0.9	15.7	1.3	6.3		1.3	0.3		0.3				0.3			318	2	320	99.4	0.6	22.94	
SIZE	125-62.5		16.2	1.3	0.3	21.6	3.2	3.8		0.3	2.9	0.6	0.3							315	34	349	90.3	9.7	25.83	
	Σ % > 62.5	43.77	25.28	1.47	0.52	18.00	2.39	5.14		0.79	1.38	0.27	0.45				0.43		0.02	1375	40	1413	95.19	4.S1		< 62 <i>.</i> 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	APLE:				ומדומ	7.8.1 •					DE	PTH	l:	143'										27 56 83 51			
WIT	LE SAN	11 L.C	UE	SUN	ורוו	۳۰۰۰۱۲					ZΕ	FRA	CTIO	N D	ESC	RIPT	IONS	<u> </u>						·			•
	80 50	ored fr ORALG	ragmen -dull	ts; fe , worn	w fresi , bore	h, ang d, oft	ular f: en enc	ragmen rusted	ts; ma: , bran-	mostly ny encrus ched frag irregula	sted, gmant	IS,			frost mostl forms	ed fra y fres , ECHI	gments n and v NOID1	, some whole, fresh a	fresh some w and won	re SAND, whole with chern, placedull,	snail ipped te and	shel eages Espina	ls. B. ; some e fragr	FORAM- agglus ments,	inated BRYOZ(1	500-250
	00 br	orn, bo ranched	ored f Lifrag	raghen ments,	ts, of often	ten en encru	onusce sted,	d, COP. BRYOZO	ALG Adul	USCmosi dull, woi l, wore, gular, fi	rn, b some	cored,			fragm whole X-CAE	ents a , ECHI	nd fres NOID1 ll, fre	sh. who relativ	ole sna Vely fi	TE SAND nil she resh pl fragmen	lls, E ata ar	B. FORM nd spin	AMmo: ne fra	stly fi gmants	resh ar ,	ted 1d	250-125
	2009 da	ostly o ull, wo	duil w orn, p nd chi	orn, f itted	rosted and bo	, pitt red fr	ed and	bored s, 8.	fragm FORAM-	D: MOLLE ents, CO: -fresh to pitted a	RALG.	-			fragm ECHIN friab	ents a OIDr le agg	nd fre	sh, who ely fre s, X-C/	ole sna esh pla ARBc	TE SAND ail she ate and dull, f	lis, E spine	B. FOR.	AM~-fr ments.	esh and INTRA	d whole		125-62,5
			/.i. ^c								7		N T			<u>, </u>										Collina Co	
7	4000-20	000	24.1				50.0	1.8							13.0		i		3.7		54		54	1 1	٥	14.91	
FRACTIONS (4)	2000-10	000	46.4	0.3		1.1	37.4	1.6						3.3	9.6				0.3		366		365	100	0	23.10	
SNOI	1000-5	500	84.2	4.3		2.2	17.1	0.6	2.5					1.5	6.4				1.2		327		327	100	0	28.94	
MCT	500-2	250	58.2	8.1	1.2	0.6	17.8	3.6	6.9		0.3			3.0				0.3			332		332	100	0	15.69	
	250-	125	47.5	12.7	1.5	1.2	22.2	5.9	5,6		0.3	0.3		0.9				1.9			324	16	340	95.3	4.7	2.61	
SIZE	125-6	2.5	44.8	11.4	2,6		22.9	2.6	7.5			2.9		0.7				4.6			306	15	321	95.3	4.7	1.25	
	$\Sigma \% > 6$	25				1				1									1 12		1700	21	1740	00.60	2 21	7	< 62 //

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE:		2212A								DE	EPTI	H:	622!					_			_	27 :84			.
WHO	DLE S.	AMPLI	E DE	SCR	RIPTI	ON:_	······································				SIZ.E	FRA	ACTIO	ON D	DESC	RIP	TION	is_							······································	-
	4000-2000	MOLLUS X-CARB	Cgray ligh	/, dul nt gray	l fragr y, dul	ment, sl l,slight	lightl tly bo	y encr rea fr	usted agmen	by bry	/ozoa,				frost some fresh	ed fr chipp and	ragment oed, P. dull p	s, some FORAM- late fr	e borea rela ragment	CARBONATE CARBONATE CARBONAM CONTROL CARBONAM CARBONAM CARBONAM CARBONAM CARBONAM CARBONAM CARBONAM CARBONAM CARBONAM CARBONAM CARBONAM CARBONAM CARBONATE CARB	fresh n and w dull,	to du hole, i worn i	ll, mos	tly wh	ole;	<u>500-250</u>
	2000-1000	Worn a	nd bore 4dull	d frag L, word	gments: n fragn	LY CARE ; some t ments, s	rosta	d and	relat:	ively t	fresh f	ragger	nts,		mostl B. Fo	y dul)RAM , who lents,	l, fro fresh de and	sted fr and who fragmo	ragment ele, so ents. E	INIFERAL CAR ts; some free one slightly ECHINOIDre rn, frosted	sh, wh chipp lative	ole sna ad, P. Iv fres	il she FORAM- sh plat	11s, -	1y-	250-125
	1000-200	fresh P. FOR	Cdull Fragmer NMrel	, word its, 3. ativel	n, fros . FORAN ly fres	SRAY, SH ited or 4-fresh sh and w SARBd	bored and mole.	fragm dull, ECHIN	enus; whole OID1	some n and fr Fresh t	relativ	ely			dull, smail P. FO frage	fros shel RAM ents,	ted fr ls, B. fresh, ECHIN	agments FORAM- mostly	; fres -relat whole resh pl	., SHELLY CA th angular theory dively fresh e, OSTRACOD- ate and spi	ragmen and w	ts: and hole, s v relat	i fresn some ch	, whol tpped, fresh	e	<u>125-62,5</u>
			<u> </u>							Silis of	, 7			,	S(%	,										
4	4000-	2000	33.3				66.7													1 1	3		100	0	1.4ć	
SIZE FRACTIONS (A)	2000-	-1000	61.0	3.4			18.6							8.5	1.7			3.4	3.4	5		59	100	0	1.35	
NOI	1000	-500	32.8	21.3	16.6		17.7	3.0	4.7					3.0				0.6	0.3	33	5	338	100	0	2.43	
RAC	500	-250	9.8	19.3	51.8		13.3	0.9	3.3		0.3			1.2					0.3	333	7 1	338	99.7	0.3	8.46	
	250	125	19.5	14.8	43.6		15.2	1.0	4.9		Ò.7			0.3						30:	3	303	100	0	22.47	
SIZ	125-	€2.5	31.6	8.5	22.3		18.2	2.8	6.6		10.0									319	2	 	99.4	0.6	20.23	
	Σ%>	62.5	24.31	12.37	33.82		17.50	1.65	5.01		3.91			0.64	0.04			0.11	0.16	1359	3	 	99.73			< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:2	3134								DE	PTH	:5	801								FITUI	-				•
WH	OLE SAMPLE DESCRIPTION:														רמ!ם	TONG		······································	·-····································	LUN	IGITU	JUE:				• -
	Ol langu	lar f <i>r</i> ac	ments:	one du	ARBONATE ill, worn, slightly	t.o.	red. s	lichtl	relati	velv) N L	YELL(frost P. F(DWISH (ted fra DRAM1	GRAY, F	ORAMIN , B. F whole	ORAM and fr	_ CARBO: -fresh t -agments	o dul	1, who	le and	chipp	ed.		<u>500-250</u>
	YELL most	ly dull, nents, E(frost HIMOII	ed fra Smost	RAY, MOLL gnents, o ly fresh -worn, ro	fter plat	n slig te fra	atly b	pored; s	ота е ОАd	noruste Ull.	ed		most frage addes	ly cull ments, i. P. E	B. fros B. FOR FORAM	ted fr AMre fresh.	agment lative whole	MINIFERA is and r aly fres a and ra -CARB	elati h and nv fr	vely f whole	rash. ; soma s. FC:	angula Have Hvalb-	r chippe -fresn		250-125
	fresi bore chip rela	n, angula d, B. For ped edges	ir frag NAMfi s. P. J resn p	gmen ts. nesh to FORAM	i, FGRAMIN and dull slightly relativel agments,	, wo dul v fr	orn, f 11. mo resh a	rosted stly w nd who	i fragmen nholu; so Ne. ECH	nts, orse h INOID agmen	often ave ts,			frost frest ECHI frage	ed fra i, whol iOIDf ients,	igmants e and resh p	and f chippe late a	resh, d, P. nd spi	MINIFERA angular FORAM ine frag iransluc	frag fresh ments	ments, , whol , X-CA	-8. F0 e and 23d	RAMr framo	elativ ots.	oly'	125-62.5
										_	GRAII	V T		,				Chronic Marie								
4	4000-2000	55.6											44.4	ĺ						9		û	l	0	C.54	
FRACTIONS (4)	2000-1000	67.6	4,4		10	.3		10.3					7.4							68		6S	100	0	0.88	
NO!	1000-500	32.7	26.4	19.3	10	.5		7.1					2.3				1.4	0.3		352		352	100	0	1.70	
RACT	500-250	11.6	13.3	53.0	8	.6		6.8		0.9			0.3							336		336	100	0	8.08	
	250-125	34,9	7.7	30.9	18	.2	0.6	6.2		1.5			-							324		324	190	9	16.71	
SIZE	125-62.5	25.4	6.1	41.2	18	.3	2.3	5.1.		1.3		0.3								311	2	313	99.4	0.5	13.59	
	$\Sigma \% > 62.5$	28 10	9 95	27.04		64	0.00	6 01		1 21		0.10	0.00				0.00	0.00		1400	2	1:00	02.21	2.13		< 62 µ

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE	·	231£A								<u> </u>				<u> </u>	N/A	911	IUr.	MI	CON							
WH	OLE S	SAMPLE DESCRIPTION:											117'									JDE: TUDE		29 42 24 20		- 	
						•				-	SIZE	FR	ACT	ON	DES	CRIP	TION	iS									-
	4000-2000	MOLLU one f encru	1 (o dull, vhole v	, encru valve,	isted : BRYOZ(fragmer DAdul	its; tv 1, sli	o fres ightly	h angu infil	ilar fi led.and	ragmen j	ts;		snai P.	ll shell ORAM	lls, B. fresh	ragment FORAM and wh	s and 1fres mle X	ML, SHEL fresh to th to wa (-CARB abangula	io wor orn, w	n, Who	le and	i fraga	ented		<u>500-250</u>
	2000-1000	fragma E. Für ofter	nts; s WAMdu	.en Lor .os∈ ir .ll, wo .ad. X-	res, tr resh to orn fra CARB -	agment dult, gwants dell		e rela Valve	tively s, som	fresn e with	, angu I Worn	lar beaks,	ı		shei	ls, B. tivelv	FORAM foresh	stea t !fres plate	nagmen h to w	L, SHEL ts; som orn, wh pine fr ostly o	ole a	sh to nd fra **	worn, grents	whole , ECHI	snail NOID		250-125
	1000-500	with w fresh often	morn be and wo	aks; si nn, who	owe fro ole and	esh to d frag	GRAY, ; fresi worn, ments, worn,	n and Whole	snail	whole shell	Valves s, B.	, some FORAM-	-		rela spin	tively e frag	ugment fresh ments,	s; som. and wi	a fresi hole, i Bdu	NATE SA h, whol ECHINOI ll, fro	e sna: Dro:	il she	115, 5	. FORA!	Y	•	125-62.5
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0'15°									IN CHIE				J. Sirker Sir		Titol 1		STAGE!				A CEO LA		
4	4000-2	2000	72.4		ļ									23.5	į.						7	Ī	7	100	0	0.52	
3 (4	2000-	1000	72.3	4.3		0.4	5.3	2.9	1.2					8.2	2.4				2.4		245			100	0	3.26	
FRACTIONS (A)	1000-	500	56.2	12.1	0.3		15,2	5,6	2.2					5,3	 	 		0,3			322						
ACT	500	-250	39.4	23.9	3.1	0.3	22.5	2.2	 		1.5	 	<u> </u>	1,5			-							100	0	5.50	
H	250	-125		17.2			21.9					<u> </u>						0.3			523	23	345	93.4	6.6	12.17	!
SIZE	125-	62.5		10.9		1.0			7.1	0.6	1.8			1.2					0.6		337	366	703	47.9	52.1	58,77	i
	Σ %>	62.5				1.17	32.8 °0.82		දි.0 5.01	0.45	1.28	0.87		2.30	0.20			0,3	1.30		311 1545	247	558	55.7	44.5	7.49	< 62 µ

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	PLE:										DE	PTH	•	97'										28 56 84 06			
WHO	LE SA	AMPLE	DE:	SCR	IPTIC)N:				<u>S</u>	IZE	FRAC	CTIO	N D	ESC	RIPT	IONS					· ·					
	4000-2000	MOLEUSC valve h				d encr	usted,	whole	pelec	ypod va	alves;	one			MOLLU whole whole X-CAR	SCmo snail and f	stly di shell: ragmen ll, fro	ill, fr s; some ted, E(rosted : Gaca: :HINOI	FORAMIN fraguer fragr fragr Dfresh nts, QUA	its an ments, mplat	d fres B.FC e and	h to o RAM-+: spine	dull, d fresh t fragme	mostly to work ents,	١,	500-25 0
	<u> 2000-1000</u>	VERY LI dull, w and wno slightl dull, w	orn, b le pel y infi	ored f ecypod lied,	ragmen valve B. FOR	ts and o, sem AMfr	relat e with ech, s	ively worn lightl	fresn, Leuks,	angu1a 6RY0Z	ar frac DAdu	gments Il,			duli, B. FO spine	frost RAMf fragm	ed frag rosh to	jments 5 worm K-CARS	and f. , most dul	, SHELL' resn to ly whol: ì, fros:	dull, e, ECH	wnole -CIGNI	snai -fras!	l smel' n plate	ls. e and		250 <u>-125</u>
	000-200	LIGHT C fragmen whole s whole a fragmen translu	ts, of nail s nd fra ts, X-	ten bo hells gments CAPB	red; rand pe and pe , ECH. -dull,	elativ lacypo NOID	ely fr d valv relati	esh, a es, B. vely f	ngular FORAM resh p	fragm frasi late a	ents; a h and w nd spin	ind Worn, ne	tly		fragm 8. F0 fragm	ents; RAMm ents, bangul	fresh ostly X-CARB	angula: fresh a	fragi	ATE SANG ments; ole, EG sted fr	and fr	esh, w fres	hole . h pla	snail s ta and	shells. spine		125-62,5
			/4º								7		N T			,			AND NO		SIN SIN						
7	4000-	2000	100																		2			100	υ	0.25	
FRACTIONS (4)	2000	-1000	72.6	2.4			10.7	2.4	3.6					5.9				1.2	1.2		S 4		84	100	0	1. c a	
IONS	1000	-500	67.4	7.9	0.3		14.0	2.1	4,4					2.4				0.9	0.6		328	2	330	99,4	0.6	2.90	
RACT	500	-250	43.0	23.7	1.9	0.6	15.3	2.5	8.1		0.6			2.8				0.6	0.9		321	4	325	98.8	1.2	5.83	
1	250	0-125	37.8	21.1	0.3	0.9	21.7	3.7	12.1	0.3	0.3		0.6	0.6				0.6			323	2	325	99.4	0.6	28.00	
SIZE	125	-62.5	48.5	12.0	0.3		24.1	3.7	9,3		0.6	1.2	0.3								324	30	354	91.5	\$.5	35.08	
	Σ%>	62.5	45.11	16.23	0.43	0.40	21.72	3.50	10.01	0.11	0.43	0.55	0.39	0.65				0.34	0.11		1382	38	1420	95.57	4.43	23.85	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SÁ	MPLE:		2318A								DF	PTF	d: 6	57'							LA	TITU	DE:_	20	04 59	,	_
W H(DLE S	AMPLI	E D	SCR	il PTI	ON:_															LON	VG!T	UDE:	<u>83</u>	45 01		•
											SIZE	FRA	CTIC	ON D	ESC	RIPT	1011	<u>s_</u>									-
	4000-2000	MOLLUS slight bored	ly wor	n, B. 1	FORAM	-dull a	nd chi	pped,	X-CARB	dul	-dull l, wor	and			MOLLI B. FO	JSCdu)RAMs	ill, fr ostly	osted, fresn,	, worn , whole	AMINIFE fragme and w RTZcl	nts; s orn: s	iome fr	esh, w adment	rhole g is. X-C	astrop ARB		500-250
	2000-1000	LIGHT froster with w relati QUARTZ blacks	d, bore orn bea vely fi most	ed frag aks, B. resh pl Iv tran	pwents; . FORAM late fr solucer	some 1fres agment 11. sub	fresh h, who s, X-C anoula	to dul le and ARD	l, who fragm dull.	le val ents, worn.	ves, s ECHINO baced	ome ID fragme	nts.		MOLLU	!SCdu ⊓ents,	ill, fr ECHINO	rosted, NDfr	worn esh ol	AMINIFE fragme late fr lear, m	nts, B aoment	. FORA :s. X−C	Mfre AR3	esh, wh dull.	ole an worn.	d	250-125
	000-200	/ELLO worn, X-CARS slight carbon	pitted dul ly tra:	and bo l, worn sslucen	ored fr n, pitt nt, ang	raghent: ted and	s, B. bored	FORAM- fraom	-frash ents.	, whol	e and	fragme	,		frost X-CAF	:ed, wo ≀3du	rn fra	gments osted,	, B. F	ONATE Q FORAM fragme	fresh,	whole	and f	racmen	ts.		125-62,5
			<u>_</u> \							16 / 26 / 26 / 26 / 26 / 26 / 26 / 26 /		GRAI					- Stain (CA PO		5 (1) (1)				, Articonia,		
1	4000-	2000	33.3	15.7			33.3							16.7							6	2	8	75.0	1 3	0.27	
77	2000-	1000	41.9	23.4			21.0	8.1	4.0					1.6							124				61.0	3.62	
ONO	1000	-500	38.3	24.1			29.4	6.3	0.9					0.6					0.3			1531					
ACT	500	-250		29.5			25, 2	7.2	0.9		0.9								013			1447					
FR	250	-125		22.3	<u> </u>	1-1	37.3	4.4	2.2		0.3		0.6					0.7									
SIZE FRACTIONS (M)	125-	62.5	25.2		0.3		52.0				0.5		0.6					0.3				1440					
	Σ%>	62.5		26.64			23.29				0.44		0.06	0.50				0.06	0.11		302 1377			29.3 18.49		0.22 1.53	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	MPLE:_	24	19A								DE	РТН	:	341										29 4			
WHO	DLE SAM	MPLE	DE	SCR	IPTI	ON:_		·										· · · · · · · · · · · · · · · · · · ·			LOI	VGIT	UDE	<u>84 n</u>	<u>5 Cl</u>	<u></u>	• •
	مسو										IZE	FRAG	CTIC.	N D	ESC	KIP I	IONS	3									
	\sim \sim 1 $^{\circ}$	worn, a	ngular	tran	meat,	ECH IN	010ne	elative	ely fre	e shiny esh fraç ragment.	aments	htly			fros	tad fra n blata	agwents e and s	5, B. A	FORAM-: fragmer	RTZ SAN -mostly nts, X- / clear	worn	fragma dull.	ents, (ECHINO: fracow	D	,	500-250
	0001	DAND: ! Fresh ti	MOLLUS o slig ts, X-	Cdul htly : CARD	ll, wor sull, a dull.	m, sî Dogala . Worn	ightly n frag: . borse	bored Ents, i frace	fragme ECHING ments.	SHELLY ents and DIDfre QUARTZ-	d rela ≎sh nl	itively ate			frost fragi ALCYC X-CA	ted, wo ments, DNARIA	orn fra ECHING Kmost ull, wo	igments 110fr 11y dul	a, B. F esn to H, sli	PARTZ Sa FORAM Worn, Ightly w S, QUAR	fresh plata vorn,	to wor and s spicul	m, who pine : les; so	ole and inagmer ome bla	: :ts, :ckened	,	250-125
	0-500	KOLLUSC Ingular Fresh, N	c ull fragm whole QUARTZ	, worr ents: and fr most	i, bord some m ragment :ly sli	d fremelation delation ded, B. dhtly	nents rely fi . CARB. transl	and fo lesh wh dull acent.	wer re pole va , worr , subar	CARBONA Plativel Alves, B n fragmo Agular t	iy fre 3. FOR ∙ots o	ish, IAM iften	!;	:	and of frage	dull ar ments,	ignents id worn	, B. F t, spic idu]	ORAM ulas.	ARTZ SAM -fresh a ECHINOM n fragn	ena wh 10re	ole, A Elativa	ALCYCIV elv fes	RlAN-⊷ sn pla	fresh, ite	n,	125-62,5
ı	4000-20	ooo (y € 50.0				25.0		•	1 1		GRAIN SO SERVICES				,			RIVE S					1		•	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(H)	2000-10								25.0														4	100	0	0.13	
S		-	55.8	2.3		ļ	13.6	14.0	9.3								<u> </u>				43	10	53	\$1.1	18,9	0.53	
Ó	1000-5	500	49.1	3.4	0.3		32.4	14.3	0.5												377	298	675	55.9	44.1	2.84	
FRACTIONS (4)	500-2	250	37.4	10.2			43.7	5.1	1.8		0.3		0.3	0.6					0.6		334	484	818	40.8	59.2	22.47	
•	250-	125	32.3	9.8		0.3	39.0	4.2	4.9		0.3		2.9	0.3							308	506		37.8			
SIZE	125-6	2.5	29.2	4.5			55,4	3.2					4.2								312	450		40.9			
	Σ % > 6:	h	38.10		+~	0.19	40.73				0 30		2 23						0.16			1740	702	20.5		0.51	< 62

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE:		2420A								DI	EPTI	H:	151										29 :84			-
W m	OLE SA	AMIPL!	E DE	.SGr	11415	ON:					SIZE	FRA	ACT!	I NC	DESC	CRIP	TION.	s	·			-					-
	4000-2000	MOLLUS	Ctwo	sligh	tly dul	l, who	ole val	ves; c	one end	rusted	fragn	ment.			frag ECHI	, frosi ments, NOIDS	ed tra ALCYON fresh	quents IARIAN: plate	s, B. F mostl and so	Y CARB FORAM y worn vine fr ear, a	fresh ; some aament	to wor black	in, who waned s	ole and Spicule Juli		iull,	500-250
	00	VERY Li SAND: angular X-CAPB, subrour	MOLLUS n fragm dull	iCdul Ents.	ll worn 8. FOR	., bord AK fi	ad frag resh ar	ments; d whol	some e. and	relati Ewhole	vely f	resh			most wnol spic X-CA	ly dull e and f ules. S	, worn Tragmen CHINCI Ill, wo	, fres ts, Al Drel	stod fr LCYCNAR Latival	HELLY ragment (IANm y fres fragme	s, B. Ostly o blat	FORAM- worn, e and	-fresh Often Smine	i to we blacka forces	rn, ned		250-125
	500	MEDIUM mostly worn, w fragmen QUARTZ-	dull, mole a its. X-	worn, nd fra Cass	froste gwents -dull.	d and , B. (worn.	bored DARB frost	fragme Worn, ed and	nts, B froste	. FORAM d and t	dfre bored	sh and			plate some	tea fra ≘ and s slight	gments pine f .lv bla	. 8. F nagmar ckemed	CRAM its, AL !. X-CA	ATE QUA fresh a CYONAR RBdu subrour	and who (ANm :11. w	ole, E ostlv	CHINOI worn.	Dfre	sh os	n,	125-62.5
			<u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						Kilo Kilo Kilo Kilo Kilo Kilo Kilo Kilo	7	GRAI		, ,		/			ARC IN		SET AND				Alifolis .		
7	4000-2		100				ļ														3		3	100.0	1	0.19	
FRACTIONS (A)	2000-	1000	63.3	6.1			18.4	12.2													49	4	53	92.5	7.5	0.81	
TION	1000-	500	55.7	4.0			24.5	14.8	0.3					0.5					0.3		305	64	369	\$2.7	17.3	6.86	
RAC	500-	250	50.9	2.1			34.2	9.5	1.2		0.3		1.2	0.6							328	116	444	73.9	26.1	\$0.21	
<u>i</u>	250	-125	49.3	3.6		0.3	34.9	6.3	2.6				3.0								304	199		60.4		-	
SIZE	125-6	82.5	42.6	4.6	0.6		44.8	1,5	3.1		0.3		2.5			 					326	589		35.6		3.17	
	Σ % > 6	52.5	50.62	3.01	0.03	0.11	33.80	8.35	1.75		0.16		1.34	0.31					0.03		1315			65.81		N.	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	2.	121A		•						Di	EPT	H:	62'								_		35 5		-
WH	OLE SA	AMPL	E DE	ESCF	RIPTI	ON:_	···				0177		A 0751				71011			LO	NGIT	UDE	: 84	17 0	1	- -
	1										SIZE	FR/	4011	ו אנ	バニンし	7(11)	TIONS	<u>`</u>								
	4000-2000	MOLLUS	Cfre	sh, ar	ngular,	wnite	fragm	ent.							and INTR	, fros whole, Λare	ited fra Norm an Menish.	Y, CARBON gmants, so d chipped friable ag s, QUARTZ	ome blac , PELLET ugredate	kened, gree s. X-C	B. FO nish, Ass	RAMw friabl dull :	hole a e and worr	nd frem ellipso often	sh; oidal,	500-250
	2000-1000	LIGHT mostly bores slight fragme	y	to sa its, E illed.	ngrtly ICHTHOI INTRA	cull, Dfre friai	angul shipla ble as	an fra: to ina: onedate	jments yments ac. X⊷	; some , DRYC	worn, 20∆d -dull	dull, ull, worm	•		fres frag	h to s ments,	i, worn lightly some b	QUARTZIT) , frosted worm, who lackened, stly angul	rragmen le, ECH X-CARB.	ts.so: INOID~: dull	ne bla -fresh . worn	ckened	, B. F:	ORAM		250-125
	000-2000	esen, Esaino X-sars	10 Tri	sana/ Sh, a , wor	an bani nd wani n firent	ed frag n, plat rents.	grants. te fra	, b. Fi ⊝ments	::RAM :=:::::::::::::::::::::::::::::::::::	dhola d Lastri	and du'	ll,	+00		fresi	, tros 1 and :	ted fra Worn pl	UARTZITIC, gments, B. ate and sp , QUARTZ	. FORAM- dine fra	-mastly aments.	/ fresi X-CA	n and v RR ==d:	whole, Ji w	CONTRA)ÎD	125-62.5
	4000-2	2000	/\sigma_{\sqrt{\sq}}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}\exi\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}\sqit{\sqrt{\sqrt{\sq}}\sqrt{\sqrt{\sq}}\sqrt{\sqrt{\sq}}}}}\sqit{\sqrt{\sqrt{\sq}}\sqrt{\sqrt{\sq}}\exi\qti}}\sqrt{\sq}\sq}\sqrt{\sq}\sq}\sq\sintitex{\sqrt{\sq}\sq}\sq}\sq\sintiqiandifta\sintitex{\sqrt{\sq}\sq}\sqrt{\sq}\sq}\sq}\sq\sintitex{\sq}\sign}\sq\sintitex{\sq}\sq}\signt{\sq}\signt{\sq}\sintiq}\signt{\sq}\signt{\sq}\sintiq}							ST PO	, ;		IN T	,		,	Oite /			STREET STREET				See of the see		
3			130.0		 							<u> </u>								1		1	100	е	0.07	
7	2000-	1000	78.€				7.1		7.1	1				2.4				4.8		42	2	111:	95.4	4.5	0.55	
FRACTIONS (41)	1000-	500	64.7	1.8			20.9	2.4	2.1									2.1		326		 			<u> </u>	
CT	500-	-250	55. <i>7</i>	2.5								 					$\left \cdots \right $				165	451	00.4	33.6	2.08	
FR/	250	-125			1		26.7		1.6	3.1								2.2	-	318	3 59	677	47.0	53.0	7.97	
SIZE			44.8	3.8		0.6	39.2	2.1	6.5	1.2	0.3	0.3	0.3					0.9		339	233	572	59.3	40.7	37.98	
-	125-		51.5	3.9			36.6	3.2	3.9			0,3	0.6							309	217	526	58.7	41.5	40.96	
	Σ % > 0	62.5	49.59	3.65		0.27	36.24	3.19	4.84	0.75	0.13	0.27	0.40	0.62				0.65	1	1335	976			41.65		< 62 A

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	APLE:	243	22A		 						DE	PTH	·	79'										-	30 00 27 01		
WHO	LE SA	AMPLE	DES	SCRI	PTIC	אנ					175	ED A	2710	ת וא	ESCE	PIPT	IONS										
	,	-				 					1 4	1 1 1 1 1 1		110													
)-2C	LIGHT GR often bo fragment relative shaped f	red and s, COR lly fre	d slig ALdo sh pla	htly e	endrust ern. sl	ed fra ichtly	gmants Genoru	s, BRYC	DZOAd fragmen	iull, w its, EC	orn HINCID	ly-		dull, fragme dull, transl	worn, nts, E worn f ucent,	GRAY, S frosted CCHIMOIS Fragment , subang irbonate	i frag Dmos ts, X- gular	ments, stly fr -CARB to sub	, B. FO resh pl dull, orounde	RAMf ate ar worn	hesh a id spin fragme	nd wor e fraç ints, (n, who ments, UARTZ-	le and , BRYOZ ⊶clear	0A to	500-250
	TI	YELLOWIS OF REGUAT some dul olightly and worn fragment	TE SAME 11, who 7 enoru 1, CORA	n: MOU ole and sted i stdul	LUSC i fragm fragmer II, and	cull, cented its, WG crusted	wern,f gastro rM 783 fruga	rosted pods, Eser an ts,	i and t BRYOZ(pulid λ-CAR(bored f DA⊷-dul fragmo 3dul	inagaen 1, wor ents, d 1, wor	its; m, Jull			dull, B. FOR fracme	worn, AMmo nts, I nts, O	GRAY, S frosted ostly fo LATRAC QUARTZ ted.	d fraç resh a blive	ments; ind who gray,	; some Die, EC friabl	fresh, HINƏIC e aggr	, whole }fres regates	snail h plat i, X-C/	l shell te and NRBc	is, spine full, w	orn igular,	250-125
	0	LIGHT GR frosted gastropo plate ar clear to	and bo ods, BR od spin	ired fi RYOZOA- La frag	ragment dull, gments,	is; son , worn , X-CAR	e fres fragme Bdu	h to v ints, E ill, wo	vorn, v ECHINOI orn fra	whole a IDfro	ind fra esh to	igmante Worn.	d		dull, ECHIMO friabl	worn, IDfi e aggr	GRAY, (frosteresh plac	d frag ate an , X-C/	gments, id spir ARBc	, B. FO ie frag	RAMn ments,	mostly , INTRA	fresh koliv	and wh e gray	nole, /-	itly	125-62,5
			<u> </u>								7	/			3(%)						STR ST						
7	4000-	2000	72.3				6.4	6.4	2.1					8.5		4.3					47		47	100	0	9.21	
FRACTIONS (4)	2000-	-1000	59.8				17.0	7.7	0.3					9.3		1.9			4.0		324	66	390	83.1	15.9	13.39	
IONS	1000	-500	57.5	1.3			18.5	13.0	3.6					5.2		0.3		0.3	0.3		3 07	201	508	60.4	39.6	21.44	
RACT	500	-250	37.7	11.3	0.7		23.5	9.0	13.2	0.7			0.7	2.5				0.7			310	431	741	41.8	58.2	25.22	
	250	0-125	32.3	11.2			24.0	3.5	9.6	2.2			0,6	1.0				9.6			313	620	933	5 3. 5	65.5	15.52	
SIZE	125	-62.5	39.0	7.3			27.3	5.0	8.5				0.9	0.6				11.4			341	204	545	52,6	37.4	2.91	
	Σ%>	62.5	53.9€	4.07	0.14		17.92	8.55	5.37	0.35			0.24	4.94		1.23		1.61	0.96		1642	1522	3164	5 7 .99	42.01	12.12	< 62 A

(2) PERCENT OF TOTAL CARBONATE

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

SA	SAMPLE: 24931										DE	EPTI	H:	100'					-		LA	TITU	DE:	29	20	00	_
WHO	HOLE SAMPLE DESCRIPTION:										·		·							LOI	VGIT	UDE		44 (32	-	
														ON E	DESC	RIPT	ION:	3_									-
	4000-2000	YELLOW mostly some b dull, w cemente	dull, ivalves korn pl	worn, dril late a	auned led, Si nd spin	anler RYOZOA- ne frag	norusta dull	ed frag . worn	ments and e	, many nordst	blacke ed. EGE	ened; HINGID			fros worn frag	ted and	i/or bo ly whol QUARTZ	med fr e, INT	agmen RAf	ts, mai riable	nv blac	kened, ates.	B. Fo X-CAR	0RAM-~ 5du	ll, won fresh t ll, won ar to	· a	500-250
	위	YELLOW: worn, i worn as X-OARB to subs	oored f od endr dull	inagre: Tubloed Fig. Worl	nto, c: , B. C/	36y bla 883¢	iskamed Sull, y	d and/o worm, a	ir end: Often :	rusted Jored (. BRYOZ and end	:OAd. :ruste	⊒ll, d,		and most X-CA	, worn. fragmer ly fres	, frost ited, ê in spir ill,war	ed fra . FOR/ e and n frag	gment Mfre plate ments	s and r esh to fragme	fresh t worn, ents. I	o worn mostly NTRA	usnai vwhole friab	l shel' e, ECHI le acci	Omosi is, who INOID regates ansluce	ele	<u>250-125</u>
	5	MEDICM word, t word, of X-CASE, angular	ingsted Sten in dull	l und/⊄ ufilie: , wuch	or borr d. B. (n (ragi	ed imag SARB Nonta,	jaun 55. -dull. - QUARTI	, weny worn f Z-−clea	Diacko nagner	med, : nts, em	327013/ any fro	Ndul' Osted,	,		whole ment	, warn e and d s. INTE	, trost hipped lAfai	ed fra . ECHI able a	gment: NOIS- agreca	i, B. F -relat: ates.)	032M	fresh resh p dull	to sli late : . worr	ightly und spi	ne fra		125-62,5
			<u> </u>								, 7	- /	ON T	,					RACIA		SET ST	* /s /s /s /s /s /s /s /s /s /s /s /s /s		, (15) (11) (1)	"RIGO"		
1	4000-2	2000	99.5				1.7	3.5	0.9					1.7				0.4	1.5		251		251	100	0	18.87	
<i>E C C C C C C C C C C</i>	2000-1	000	81.5				3,3	11.8	0.6					2.2					0.5		330	Į1			1.2	1 21	
ONO	1000-	500	71.5	1.8				14.6	0,9					2.4				0.9	0.3		529	43		<u> </u>	11.6		
ACT	500-	250	62.4					12.3	2.3		1.0																
FR	250-	i	42.2		0 0					0 -				0.6				2.3	1.0		309	51			14.2		
SIZE FRACTIONS (4)	125-6	52.5					13.1		9.4	ე.მ				0.3				6.9			320	83	403	79.4	20.6	5.47	
• ,	Σ % > 6	52.5	34,3 75.22				26.1 7.17	5,6 10.03	9.8 1. 7 3	0.04	0.7	0.7	0.7	1.74				12.4	0.72		306 1825	162 343			34.6 8.11	9	< 62 <i>4</i>

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	2424A								DE	PTH	ł:	07'									DE:_ UDE:				
WH	OLE SAMP	PLE DI	ESC	RIPTI	ON:_					SIZE	FRA	CTIC	N D	ESC	ลเคา	TONS	3		<u> </u>							-
	4000-2000 MOLE 5 11:3	LUSCdul ghtly end	l, sli rusted	ghtly w	orn fr	ragment	s, one	with	worn b	eak; c	ne is			frost and f X~CAF most?	te d fra fragmen RBdu	igments its, EC ill, wo ingular	, some HINOID mn fra	black rela oments	ATE SAME SAME SAME SAME SAME SAME SAME SAM	B. FOR fresh T7cl	AMfr plate ear to	esh an and s slich	d worn pine f tly tr	i, whol Tragmen	e ts, ent.	500-250
	Worr Tres worr	LOWISH GA n, boned sh,whole n, encrus nslucent,	fragme gastro tes, <i>x</i>	nts and pod; or -CARS	i relat e biva -duil,	ively live ha lencru	fresh, s worn sted f	angul beak.	ar fra BRYOZ	gnents OAdu	; one			worn some friab	fragmo fragmo le, X-	ints, s ints, E	ome bl CHINOI -dull,	ackene Dfre	MATE Q d, B. i sh pla fragme	FORAM- te and	-mostl soine	y fres frach	h and	whole:		<u>250-125</u>
	00 fros	nT GRAY, sted anc/ gments, E l, worn f angular t	or bor CHINDI naguer	ed frag Ddull ts, QUA	ments, plate RTZc	B. FC and s lear t	RAMf pine f o sliq	resh t ragmen ntly t	o worn as, X- ranslu	, whol CARB cent.	c and	æs.		frost spine	ed fra Fragm	gments ents,	, B. F. INTRA-	ORAM -ĭriab	RTZ SAM fresh, le aggi y cleam	whole regata	, ECH: s, X-C	NOID ARB	fresh dull,	plate froste	ลกต่	125-62,5
		_/:								. ~		IN T			(a)			RE THE		STACE S				Will A		
4	4000-200	o 1 ₀₀												,						2			100	0	0.05	
3	2000-100	0 32.5	;		2.5	10.0							5.0							40	7	47	S5.1	14.9	0.69	
SNOI	1000-50	o 73.0	3.8	5		9.0	2.4	2.7					0.9				2.7	0.7		452	1452	1904	23.7	76.3	4.50	
FRACTIONS (4)	500-25	0 53.9	3.7	7		24.0	4.7	2.8		0.6							0.3			321	2049	2370	13,5	35.5	57.00	
- 1	250-12	5 40.6	5,4	0.6		34.9	11.1	4.2	1.6	0.3							1.3					2556		 		
SIZE	125-62.	5 [2ε. 3	3.8	1.9		31.8	21.6	5.7	2.2	0.3	0.3	0.3					4.8					1620		 		
	$\Sigma \% > 62$.	5 5 5	, , ,								Ī .						Ì									

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE: 2525A DEPTH: 117' LATITUDE: 29 04 58 LONGITUDE: 35 15 03																										
SAMPLE: 2525A DEPTH:										117																	
WHOLE SAMPLE DESCRIPTION:																		LON	:GH (JUE	35	_ 150	3	•			
											HZE	FR/	CTIC)N D	ESC	PIPT	IONS	<u>}</u>									•
	S S	YELLOWI dull, w infille encrust	arn, t d, <i>HA1</i>	ored a ZMEDA-	nd enc -sligh	nusted tly wo	i fragm orn pla	rents, ite fra	BRYOZO oment.	Asli CORAL	ghtly Gdu	worn,	SC		dull, whole	worn,	pitte ragmen	d or f ted, X	rosted -CARB.	BONATE (fragmer dull, nslucent	its, i worn	B. FOR , fros	AMmo ted fr	stly f agment	resh. s.		500-250
	001-	YELLOMI MOLLWSO SRYOZOA X-CARB. subangu	most worn dull	ly dul , infi ∾oc¤	l, word Hed, i	n, bor ECHINO d fasa	red fra NDdu	gments 11, wo	, many rn pla	encrus	sted, gments	, cont	es.		frost relat ECHIN dull,	ed, wo ively IODr frest	rn fra fresn elativ ed, wo	gments and who ely fro rn f ra	; some ble, B esh blo	RTZ SAME fresh, RYOZOA ate and , QUARTZ	whele dull spine	e snai , worn e frac	l shel , frag. ments.	ls, B. ments, X-CAR	FORAM C		250-125
	0-500	LIGHT CLIVE SYAY, SHELLY, CAMBRIATE QUARTZ SAND: MOLLUSCmostly dull, sitted, frosted or bored fragments, B. FORAMfresh and whole, and dull, worn fragments, DEYOZCAdull, worn fragments, DEYOZCAdull, worn fragments, DEYOZCAdull, worn pitted or frosted fragments, QUARTZclear to translucent, subangular to subrounded; some encrusted, SOME QUARTZblackened carbonate aggregates.															sted	25-62,5									
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	13° /5° /5° /5° /5° /5° /5° /5° /5° /5° /5						Sty O	-	/	IN T						RECEIVED TO THE PARTY OF THE PA		A STA						
4	4000-2	2000	79.1			4.2								12.5	4.2						24	9	33	72.7		2.01	
FRACTIONS (4)	2000-	1000	74.0	0.7			11.9		3.3					6.7	1.5				1.9		269	1155	1424	18.9	31.1	12.47	
ONS	1000-	500	69.2	3.8			16.7	1.9	2.9					2.9					2.6		312	2588	2880	10.8	89.2	33 .50	
ACT	500-	250	54.5	17.7	0.9		21.1	0.9	2,5					1.2					1.2				2877		 		
1	250·	-125	34.3		2,2		34.6		5,1		1.3		0.7					0.9									
SIZE	125-6	62.5									1.3	0.6	0.3	4.8									3445		90.9	10.46	
	Σ %>		29.6 ε3.40		1.6 0.47		38.3 16.86	13.0 1.24			0.07	0.6 tr	0.02	4.20	0.77			1.5 0.78	1.40		-		2324 12933			0.46 1.95	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMPLE:	27	26A		•						D	ΕΡΥ	H:	2721							LA	TITL	IDE:	23	57 5	57	_
WHOLE SA	MPLI	E DE	ESC	RIPT	ION:															LO	NGIT	UDE	<u>85</u>	23 ():	-
					-				-	SIZE	FR.	ACTI	ON	DES	RIPT	FIONS	3_							······································		
4000-2000							,		****					word Most	i, enipp ily wholk ted fra	ped, of le, ECH agments	ten b INGID	ragmen lacken fres RT7c	, SHELLY ts, B. F ed or ir h plate lear to on-stain	Unam- on-st fragr trans	tres tained	h and , P. F	whole, GRAM	, and fresh,		500-250
001-00	YELLOWI fresh a dull, w aggraga ECHINGI subroun	vorm, d :tes, 8 :Dfre	r iray Shipbe SEVOVI	wencs d, sli Adul	ano du ghtly l woo	ili, wo blacke	rn, bo ned, l	ored fr INTRA	agment olive	s, B. gray,	FORAM- friabl			frag	ments. frost	.ECHINO	gmerico: ID~-fi seioo ti	s, s. ; resh pi ned fr:	RECYATE : FORAMf late and agments, gular.	resn	and w	nole;	some w	onn		250-125
00-500	LIGHT 0 MCLLUSO mostly worn fr spine f frag. translu	whole, ag., E rag., Z-C195	ny da Dat Chino B. GAI	duriywa Dfra RBda	na, tro orn,em esnjark ull, wo	osted Joined d doll orn fr.	and/or , of te , worm osted	tored a bluc , often trag.;	frag. kened, s black some s	B. FOS BRYOZO Kened, Smoothe	RAM DAdu place ed, sn	and		fres	e snai: h and w	sneris hole. P	s and CHINO	worn, Mossfr	SHELLY CA frosted resh plan RTZmost	frag:	ments,	, B. F	0RAH:	mas tly	~~	125-62,5
			/.	, ,			, ,	E. K	/	/ 7		IN T			, ,	- /		· /				. ,	· /	, ,		
	i	ki						1			Stal St	OKÓ P.	A Olivaria					The State of the S						onteon,		
4000-20				ļ		ļ																				
2000-10 1000-1 1000-1 500-1 250-	- }	70.0	1.7	<u> </u>			13.3	1.7					3.3				10.0			60	Ţ	61	98.4	1.6	0.53	
1000-	}	49.1	6.8	0.6	ļ	15.7	21.6	2.8					2:2				0.9	0.3		324	37	361	89.8	10.2	2.88	
500-	250	43.0	12.6	4.4		20.8	6.6	5.4		0.6			1.3					0.3		317	190			37.5	 -	
250-	125	51.7	5.1	2.2		26.7	8.9	3.2				0.3	0.6			i	1.0	0.3		315	372		 	54.1		
125-6	2.5	50.3	3.9	0.6		28.4	1.9	7.1			1.9	0.6	·				0.3			324	72			18.2		
Σ %>6	2.5	9.10	0.56	3.67		21.77	7 78	4 21		0.41	0.04	0.00	1 10	-				0.30		210		230	01.0	10,2	1.12	

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT. %) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	MPLE:	2427A						DE	PTI	ا:	574'									-		49 5		-
WHO	LE SAMPL	E DESC	RIPTIO	N:														LOI	VOII		- 85	37 0	6	- -
								SIZE			<u> </u>)ESC	File	CION	<u>s_</u>									
	0002-0007 fragme	HISH GRAY CAP ants, ECHINOI	BONATE SA Dslight	N.D: MOLLU	SCdu ate fr	ll, sl agment	ightly	/ Worn,	angul	ar		frag	ments, h and d	B. FO! 1ull, v	RAMfr vhole a	esh ar nd fra	NAL CAR nd dull ngments subrou	, whol	e and	fragme	onts. F	. FORA	Y	500-250
	fragme and fr	HISH GRAY, Shents, some bo agnents, nos agnular plat	red, B. F	'CRAMmost . BRYOZOA	ly agg dull,	lutina worn f	ted fo	orms. W	hala			fresi frag	h and w ments,	vorn fr P. FO!	hagment VAMfr	s, B. esh to	RAMINIF FORAM- dull, its, X-	-fresh whole	to do	ill, wh Tragmer	nole ar nts, Eu	id HINOID		<u>250-125</u>
	Ol mostly	ISH GRAY, Sm dull, sligh whole and fr dull, won	tly worm, agmented.	angular f P. FORAM-	ragion -mostl	ts, 2. v whol	FORAN	ifres sh ta	h and dull.	ded.		most and w fresi	ly rela ∉hole, ⊢plate	tively P. FOF and s	r fresh UMfr pine f	, ang. esh ar ragmer	AMINIF dan fr d dull its, X- subrou	agment , whol CARB	s, B. e and	FORAM- fragme	mostl ents, E	y fres CHINOI	'n	125-62.5
		13. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15						, 7		N T				- Series		Sir Ja		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				into Chie		
	4000-2000	92.3				7.7		<u> </u>										12		12	100	0	0.27	
SIZE FRACTIONS (41)	2000-1000	52.5 27.5		12.5		2.5					5.0							40		 	100	0	0.75	
NO NO	1000-500	15.2 27.7	33.5	20.4	0.3	0.6					1.2				1.2			343	2	745	99.4	0.6	1.69	
ACT	500-250	4.4 21.3	 	12.8		0.9		0.3			0.3		 		1			320			 			
FR	250-125	12.2 12.2	1	16.8	2.1	3.1	0.6	0,5			0.5		-					328	1	321 328	99.7	0.3	7.59	i
	125-62.5		57.7	13.3		2.3	0.0				0.0		 					324 324	1		99.7	0.3	14.30	
2	Σ % > 62.5	15.31 173	53.53		1.57		0.21	0.05			0.42				0.05			1367	4		 	0.18	2	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

AMPLE:	252 PLF	····	 SCP	וידסוי	ONI		-			DE	PT	H:	23'									DE:_ UDE:		54 5 05 0	
MOLE CAN			5011		014.				<u>S</u>	IZE	FRA	ACTIO	ON D	ESC	RIPT	ION	<u>s</u>								
00 MOL COR.	LUSC- ALG regate	-most` -dull ≥s, X-	iy dul . worn	l, wor , bran dull	n, bor koned f	ed fra raomen	gments. ts. IN	, BRYO	LY CARS ZOAcu oderate nts, QU	ll an	d word	1. I		worn fragi fragi	, fros Hents, Hents,	ted f INTR X-CA	ragment Afria RSdu	s, B. ble ag 11, wo	ONATE QUESTION OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMMENT OF COMME	resh , ECH ments	and wi HINCID	hole, fres	and du h blat	ll, wo e and	rn spine
OOI CAR di fra wor	30NAT: ull, v gments n. X-(E SAME Monn, S, INT DARB	D: MG whole RAm -dull	LLUSC- and c oderat	-mostl hipped ely in fracme	y dull , CORAL durated	, worn. LGdu d agere	, bored ull, wo	IZITIC d fragm orn, br , BRYOZ tly tra	ents, anche Oad	B. FO d ull ar	- 1		frost and w frage worn	ted fr whole, ments,	agmen worn P. Fi ents,	ts and i and fra DRAMfi	fresh, igment resh. i	ONATE Que whole sed, ECHI whole ar to sli	mail NOID- id fra	shell: fres! adment:	s, B. h plat s. X-C	FORAM- e and ARB	-fresh spine dull.	
100 dol 1	LUSC 1, wa: KK2	mosti m, wi dull.	ly dul nole o . worn	l, wor n onip fragm	n, fro ped, C ments.	sted o: GRALG. JUARIZ	n boned dull, dlear	i frag: . worn: · to si	ELLY CA ments, branch ightly irbonate	B. FO hed fi	RAM nagmer slucer	its,		worn mosti intr	, fros Ly fre Afri	ted fi sh and able a	ragment: i whole aggrega:	and ECHI tes. X	SHELLY (fresh,wh NOIDfr -CARB anslucer	ole s esh p worn.	smail s plate a frost	shells and sp ted fr	, B. F ine fr	ORAM agment s	s,
										_	GRA	IN T	YPE	3(%) 2										
	4	/hc									/STAN S	OKE 1	TOWARD OFF	A COL		RALL		RIVE STOR		TA CONT					
4000-200	0	31.4				15.9	1.5						6.3	5.3	1.7		15,1			132	3		97.8	1	12.14
2000-100 1000-50 500-25	0	1.6	1.7			19.3	0.8	8.0					4.1	5.7	0.3		4,3	1.4		249	31	380	91.8	8.2	29.51
1000-50	0	2.4	4.8			16.3	3.2	0.6					2.2	3.5			2.2	4.8		313	99	412	76.0		29.73
500-25	0	5.7	10,5	2.2		21.3	4.2	1.6		1.0			0.3				1.9	1.5		314	398				15.99
250-12	5	57.3	13.5	3.2	0.3	33.0	3.5	4.8		0.7							1.6	1.6		312	574			ô4.8	\vdash

0.11 0.01

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE: DLE SA		29A		וחדו	ON.					DE	PTH	124	ļ ¹	idin-ying							FITUI IGITI					
AN LT	JLE SA	MPLL	. טב	SUK	1711	ON:					NZE	FRA	CTIC	N D	ESCI	RIPTI	IONS			 							•
	0-200	YELLOWI mostly branche aggrega iccegul	dell, v d frage tes, K-	isra fi ∈nts, •CAR8	ragmen many	ts, oft grayish	en bar , INTE	red, CC RAmod)RALG Ieratel	dull y indu	, worn irated	MOLLU	sc		froste X-CARE	ed frag 3dul	ments.	B. FC	PAMw frosta	MATE QUAF thole and ed fragmo unded.	! fre	esh: so	ome dul	1. wor	n frac	ments.	500-250
	01-00	VERY LI fragmen edges, BRIOZOA irregul some qu	ts, of: CGRALG. dull, arly-sh	en bo dul . and . .aped,	red, B 1, war word, QUART	n, bran X-CARB. Ztran	lwnol iched i dull islucer	le, but fragmer I, worr nt, sub	: worn its, ma i frage	with our grands,	chipped sytsh, often	i			frosto ECHINI X-CARI	ed frag 10Dfr 3wor	ments, esh bla	B. Fo ite ar ited f	RAMm d spin ragmen	E QUARTZ nostly ra ne fragme nts, QUAS	elati ents	ively : . INTR	fresh a Afria	ind who	ole, gareca:	es,	<u>250-125</u>
	000-200	LIGHT O dull, w and who fragmen fragmen subangu placker	orm, fo le, wor ts, som ts,many lac to	rosted na. of ne bra / ince subro	or bo ten wi nched, gularl unded;	ned fra th chib 7-CARS y-shape some a	gments waa ed dul d. QU	s, B. A Iges, C II, wor GRTZc	CRAM CORALG. Tn, fro Clear 1	-fresh dul isted o to trad	and wh l, work or bork osluce:	nole, n M			froste and sp	ed frag pine fr to ver	ments, agmants	B. FC , X-C	RAM ARBk	E QUARTI fresh ar worn, fre wcent, ar	nd Wi nstee	hale, i d fragi	ECHINO: ments,	(Dfre QUART)	esh pla	ite	125-62,5
			/\$. 7		IN T														
7	4000-2	2000	31.6				49.5	1.0							13.7		1	2.1			95		95		0	19.52	
FRACTIONS (4)	2000-	1000	24.4	2.8			50.0	2.3						3.4	16.2				0.9		352	4	356	93.9	1.1	37.61	
Š.	1000-	500	45,8	13.1			24.2	1.4						1.2	13.7				0.6		343	28	371	92.4	7.6	24.07	
RACT	500	-250	49.7	6.6	0.6		33.5	6.6	1.0					1.0					1.0		304	436	740	41.1	58.9	13.25	
	250	-125	4 3. 9	9.0	1.0		34.2	5.0	3.3					0.3				3.0	0.3		301	1344	1645	18.3	31.7	3.85	
SIZE		62.5	38.7				41.9	2.9	4.8		0.3	0.6	0.3					2.2			315	571	686	45.9	54.1	0.28	
	Σ%>	62.5	33.45	5.14	0.05		41.95	2.08	0.12		tr	tr	tr	2.33	13,73			0.50	0.60	17	710	2183	3ა93	35.47	13.53	1.35	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE:		 R02	(PT)	ON:							H:					<u></u>			TITU	DE:_				
****	OLL OAM	5	.00,1	11 11	O:•					SIZE	FRA	CTIC	ON D	ESC	RIP	TION:	S								•
	O MOLL bran	CWISH CR USCdul ched fra ments, i	l, worr gments:	n, bord Hidany	ed fragmo slightly	ents,	, CORAL	G du	111, wo	orn, bo	ored,			most worn fresh	ly dul fragm n.who	l, fros ents, s le and	sted fr some bl fragme	agment: ackene nts. X	SHELLY CA s, B. FORA d, BRYOZOA -CARBdu nslucent. pte aggreg	Mfresi worn 11. wor:	h and w fragme: n. fros	vhole, nts, P. sted fr	and du FORAN Forment	1	500-250
	001-00 of te	OWISH GR : MODEL e, and w n bored a ored, in slucent,	SCdul orn, ch and bla regular	ll, wor ripped rokened rly-sha	n, bores and blas 1, ERYOZO iped fran	u fra ckane OA⊷d	:C…ents :d, COR !ull. w	, B. F ALG orn. X	FORAH -dull, (-CARB.	fresh Worn 1 dull	and fragment. Work	nts.		frost mostl X-CAF	ted, w ly fre	orn fra sh and rosted,	igments whole.	; some ECHING	NATE QUART fresh, wh DIDfresh nts, QUART	ole sna plate	il shel and spi	lls, 6. ine fra	FORAM	;	250-125
	SAND fres CORA frag	OXISH GR . MOLLU: h and who LGdul ments, X- ounded,	SCdul ble, ar i, worr -CARB	i, tro d whol drage duli.	sted or le, worn lents, of worn fo	bord and ften ragna	d, wor chippe blacke eats: 0	n frag d, som ned, B dART7=	pents, me blac ERYOZOA -clear	B. Fokened,	RAM			fresh	y fro n and	sted fr whole.	agment ECHINO	s and : IDfra	HELLY CARB fresh whol esh plate TZclear,	snail and spir	shells ne frac	s, B. F	ORAM Y-CAS	5	125-62.5
		4							in the state of th	, 7		IN T	,		,	- (30 ⁰ /3)						, , , , , , , , , , , , , , , , , , , ,			
7	4000-2000	25.6			2	28.2	23.1							20.5				2.6	3			100	0	19.71	
3	2000-1000	19.4	4.9		2	28.1	22.7	1.0					4.2	19.1				0.6	30	 -	 	95.1		23.88	
IONS	1000-500	34.6	7.8		2	20.7	17.7	0.9						14.1			0.3	1.5	33		ļ	90.5		37.53	
FRACTIONS (41)	500-250	43.4	6.7	2.4	2	23.3	15.2	1.5		0.6			3.2	 	<u> </u>		0.3	2.3	34	+	 			14.80	
	250-125	36.6	9.2	1.9	3	36.8	9.9						1.2				0.6	0.3	32		 		49.1		
SIZE	125-62.	33.2	7.7		4	7.7	3.4	4.3			0.6	1.2					1.9		32		 			0.65	

0.07 tr 0.01 2.39 15.11

1672

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

SAM	IPLE:	253	1A								DE	PTH	:1	471				•						29 4 S6 0			
CHW	LE SA	AMPLE	DE:	SCRI	PTIC)ฟะ	··			 S	IZE	FRA	CTIO	N D	ESCA	(PTI	ONS										
	4000-2000	YELLOW! MOLLUSC encrust encrust irregu!	dull ed and ed and	, worn bored infi!	, encr , trans led, %	usted a ched fr -CAPB	ind bo agmen	red fr ts, BR	agment YOZOA-	s, COR -dull;	ALG some	dull, slight			mostlj fresh some d fresh some	/ worn and wh agglut plate irregul	, frosingle; a nole; a inated and sp larly=:	ted frand wo forms pine f shaped	agments on to si BRYOZ oagment QUART	SHELLY C , some b mootned, CAdull s, &-CAR Zclear QUARTZ-	ored ofte frag 3w to s	and to the chiment: norn, light	blacke ipped s. ECH frost tly tr	ned, B and bl. INOID- ed fra ansluc	. FORA ackene -mostl gments ent,	; ,	<u>500-250</u>
	2000-1000	YELLOWI MOELUSC Worn to fragmen Worn fr shanslu	most smooth ta, of agrent	ly dul had, o ten sl o, oft	l, won ften d ightly en por	n, bore hipped, blacke	ed fra , CORA :ned a	gments LGd nd/or	,́B. F ull, w bored,	ORAM orn, b X-CAR	mostly ranche Bdu	dull, d			mostly snell: black and f	y worm s, B. i thed or rosited	, frost FORAM r iron- fragma	ted fr. -fresh -stain ents,	igments and whe ed, B. ECHINDI	SHELLY C ; some r ole; als CARB¤ Cfresh s, QUART	elati o wno ostly plat	vely le, : work e and	fresh but wo n, oft u spin	, whole nn, ch en spe e frage	e smai ippad, otned mants,		<u>250-125</u>
	000-200	LIGHT 0 bored f smoothe worn, s dull, w shaped.	ragmen d, oft lightl orn, f	ts, 3. en blu / bore	FORAM kened fragi	fresh and wi ments,	n and : ith ch some	whole; ipped slight	and w edges, ly bla	hole, CORAL ckened	worn t Gmo , X-CA	o stly R3	d/or		worn, fresh	frost and wi frost	ed frag hole, i	gments ECHINO	; some Dfre	ELLY CAS fresh, w sh plate Zclear	hole and	snai' spina	l shel e frag:	ls, B. ments,	FORAM X-CAR	3	<u> 125-62,5</u>
			/ti-								- 7				S (%						Zini Silai Silai	18 15 15 15 15 15 15 15 15 15 15 15 15 15					
	4000-	2000	27.7				47.7	3.1							12.3				1.5		65			100	0	6.03	
FRACTIONS (A)	2000-	-1000	25.1	5.3			44.0	3.2	0.3					1.1	19.2				1.8		39	1	3 40	99.7	0.3	34.82	
IONS	1000	-500	31.0	11.9			34.6	5.8	1.4					1.1	11.4				2.8		61		361	100	0	35.98	
RACT	500	-250	45.6	10.8	0.3		29.4	6.6	2.2		0.3			5.2					1.6		15	58	374	59.5	40.5	16.47	
	250	-125	30.0	9.1	1.6		29.7	23.9	4.5					0.6				0.6			10	211	521	59.5	40.5	2.52	
SIZE	125-	-62.5	36.3	9.2	1.€		41.1	2.9	7.2			0.7	0.7					0.3			06	127	433	70.7	29.3	0.82	
	Σ%>	62.5	30.79	8.45	0.07		38.19	5.02	1.16		0.04	tr	tr	1.74	12.43	0.10		0.01	2.09	16	97	397	2094	96.11	3.89	2.22	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMPLE			SCRI	PTIC	ON:					DE	PTH	l: <u>17</u>	2:											5 58 2 28		
WHOLL			0,		J14			· · · · · · · · · · · · · · · · · · ·	S	IZE	FRA	CTIC	N D	ESCI	RIPT	IONS	<u> </u>									•
4000-5000	YELLOW MOLLUGG B. FORM fragmer shaped.	lmost Mwor nt, X-C	ly wor n. bla	n, por ckanad	ed frag fragse	gments ent. D	, CORA CRAL	LGW Warn.	orn, b bored.	ored i	ragmen sted	ts,		mosti B. FO iron- fresh frago	y worm)RAMf -staine i plate ents,	n, fros resh a d, P. e and s X-CARE	sted fr and who FORAM- spine f 3wor	agment le; an -mostl ragmen n, fro	, SHELLY ts; some nd whole ly fresh nts, BRYG osted fra anslucen	fres wor and 20A- agmen	h, ang n and whole, -mostl ts, so	ular f chippe ECHIN y slig me inn	ragmen d, bla 1010r intly w equian	ts, ickened elativ ern ly-sha	ely	500-250
0001-0002	MEDIEM mostly mostly worn fr infille snaped	worn, worn t agnest d. X-C	bored O Smoo S, man ARB	frague thea. y Bore dull.	nts, so bored o a, SRYC worn, b	one sl or chi; DZCA oored	ightly pped, dull,: fragme	black often worn f nts. o	ened, blacke ragmen ften i	8. FOR ned, C ts, of cregul	AM ORALG. ten anlv-	- 1		mostl 3RYOZ fresh	y worn :0Asl , whol	, fros ightly e and	ited fr / worn, fragme	agment some nts, E	, SHELLY ts, B. F(slightly ChIAJID- to subs	DRAM- / inf fre	-mostl illed, sh pla	y fres 2. FO	h and RAMr	whole,	elv	<u>250-125</u>
0001-2000	LIGHT Compositive and what CORALG. fragmer shaped,	dui!, de, no dull its, X-	froste rn to , worn CARB	d inag swooth fragm -worn,	ments, ed, som ents, c frosto	some : ne chi often : ed fra	bored, pped a blacke gments	B. FC nd/or ned, B , ofte	NAMf blacke RYOZOA n irre	resh a ned, dull gularl	nd who			worn, relat	. frost ively	ed fra fresh,	igments whole	. B. F and fr	SHELLY CA FORAMfr agments, gular to	esh. ECH	and wh INCID-	ole, P -fresh	. FOR 4	M	•	125-62.5
		Į,								7	/	N T	. ,		, ,			LE LES						Collidate N		\$\frac{1}{2\chi_0}
\rightarrow	0-2000	51.8	3,6			24.2	€.1							12.1		ł				33		35	100	G	3.19	
1	0-1000	17.6	9.4			45,0	10.0	0.3					3.7	12.5				1.5		329	2	331	99.4	0.6	13.62	
100	0-500	35.8	<u>1</u> 9.9	2,6		17.9	5.9	1.3					3.6	6.2				6,8		307	15	322	95,3	4.7	20.79	
FRACTIONS	00-250	51.4	9.7	7.9		16.7	2.4	4.9		0.3			2.4					4.3		329	39	368	89.4	10.6	33.51	
-	50-i25	38.9	7,9	3.5		29.8	10.8	3.2			0.3	0.6	4.1					0.9		316	58	374	84.5	15.5	17.97	
SIZE 12	5-62.5	38. <i>7</i>	7.6	3. 6		31.4	4.8	9.7		0.6	1.5	0.9					1.2			331	92	423	78.5	21.7	2.84	
Σ %	> 62.5	39.69	11.42	4.17		24.58	6.17	2.95		0.12	0.10	0.13	3.04	3.98	C.12		0.04	3.54	,	1645	206	1851	91.28	3.72	7.83	< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

AMPLE:			SCP	IPTI	ገል! •				D	EPT	H: <u></u>	231								DE:_ UDE:			
			0011	11 110	J. N				SIZE	FR	ACTIO	ON D	ESC	RIPT	10N	<u>s_</u>							
4000-2000	bored a	ind end Hightl	rusted y blac	fragmo kened :	ents, B fragmer	3RYDZO/ it, X-0	Alidai	_LUSCmo ll, encru -dull, bo	isted, CO	RALG.			worn, whole stain bored angul	frost , and ed, EC fragm	ed fra worn, HINOID Ents; subrou	gnents scoth)dull some si inded;	, some in ed and/en , worn fo moothed a	LLY CARBON ron-staine r chipped; ragments, and shiny, iron-stai	d, B. many X-CARS QUART	FORAM- blacke Ldul Zcle	-fresh ned or l, fro ar to	and red sted o transl	r ucent,
2000-1000	bores f chipsed CORAL	fragmen 1, ofte worn,	ts, B. a fros pored	FORAM ted, Ci fraction	fresh CRALS nts. 38	n and w ⊷worn PYOZOA	whole, frag: sull	NO: MOLL and worr ments, of , worn, r ularly-sh	n, smooth fien bord often ind	ed an	d		frost worn, smoot fragn	ed fra smoot hed, s ents,	gments hed, b hiny f often	; few : lacken: Tragmen: iron-s	mole, f d or in is, X-CA tained,	LLY CARSON resn snail on-stained RKmostl IMTRA-gree lucent, an	shell , B. C y worn enisn g	s, S. ARS i, smoo iray fr	FORAM- mostly thad, iable	-mestl wern, shiny aggreg	У
1000-500	bored, and/or plate a	worn f chippe wa spi uts, QU	nagmen d, 3kY ne fra ARTZ+-	ts, B. 0204d godents oldan	-FORAM dull, v d-CAB	-fresi Korn fi KO.∸-di	h and w ragment ull.we	ND: MOLL whole, ar is, ECHIP orn, bord pangular	nd worn s WOIDdul ed on fina	mooth I, wo sted	ed rn		wora, 3. FO	frest RAMm ragmen ed fra	ed fra ostly ts. IN	igments relati (TRA+-o	; some re rely fre: reenish	Y CARBONAT elatively sh and who friable ag r, angular	fresh, le, P. crecat	whole FORAM res. X-	snail fres -ASB	shell h, who	s, le
										GR/	AIN T			.) ²									
		Ziti.								SRE	SP LEST	ADIATE!					AN AN AN AN AN AN AN AN AN AN AN AN AN A		15 (1) 15 (1) 15 (1)			S. FEGGY.	
4000-	2000	53.4				40.0						3.3						30			100	0	16.64
2000- 1000- 500	1000	43.2	8.3			29.2	0.3	3.0				3.4	6.7	1.2			6.5	325		325	100	0	12.44
1000	-500	52.4	15.6			23.3		3.0				3.6	0.9				1.2	334	5	339	93.5	1.5	37.99
500	-250	47.3	14.7	1.8		28.4	1.5	2.4	0.	5		1.2					2.1	328	29	357	91.9	8.1	27.70
	-125	16.8				62.4	13.4	0.9		1		0.3				1.2		322	58	380	84.7		
125-	62.5	34.9	10.7	5.1		29.5	2.1	3.0	0.	3	1.5					12.5		335	17	352	95.2	4.8	0.17

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	IPLE: LE SAM	253 PLF		 ^_	ודם	∩81 +					Di	EPT	H:_2	15 '										29 : 36			- -
		/ 	<i>D</i>	U111	C 11	014.					SIZE	FRA	ACTI	ON I	ESC	RIP	TION	S		· · · · · · · · · · · · · · · · · · ·							
	SO S	EOWISH n, pore INCID rusted	d, and dull p	enc late	nus te fraq	d frag ment.	gments. X−CAka	, CCRAL 3dul	.6du 1. wak	:11. wn	on fr	amonts	1,		and v ECHII worn	ly wor: worn, WOID⊢	n, fro smootn dull, i thed a	sted or ed and ween pl	bored shiny. ate ar	SHELLY I fragm , often ad spin gments,	ents, black e frac	B. FOS kened c Tuents	RAMH-fi or irei XLOA	resh ar n-stair RBfr	id whol led,	o r	<u>500-250</u>
	001 - 00	LCWISH (LUSGm (duil, (gments, i, worn nslucen	ostly korn, loften liter	dull chip; ban d fn	, war ped, ed, b	n, li races. RYDLO, ts. or	red fra . Ofter !dull fran in	igrests Elack ', Worn	, S. F ened, , Oite	ORAM CORALG A Tuti Buod	fresh dul lled, Outota	and wh i, wor λ-CARL	r. 1		fros: fresr gray X-CAF	ted fra n, who n, fria RBfi	agment: le and ple agg rosted	s and w fragme	hole f nted, s, ECH othed	LLY CA fresh s P. FOR !INOID- fragme led.	nail s AMfr -fresh	nells, resn, v unlate	, B. Fi inole,	ORAM: -INTRA- snine f	elativ -groen osober	ely ish ts	250-125
	000-200 300 -200 300 -300 300 -300	hT OLIVE n, bores n to ser tly duli ne frage peu, Qui e with t	i frag pothad i, wor rents. NRTZ	west: , of: n, i. , y-3/ sligi	s, 8. ten c ored wkb ntiy d	FORAL hipped fracac dull, clear	:tres Lani t Ents, E Lyonn.	h and Jored,o CHINDI Lared	whole, fton b Ddul fract	and w lacker l, wor	nole b ed, 30 n plat fton i	ut dui RALG e and rrenal	i,		frost frest	ted fra n and v ple ago	agments vhole; gregate	s and f some s es. P.	rash, lightl FORAM-	LLY CA whole y conn -fresh TZmo	snail oded, . whol	shells INTRA- e and	i, B. í ⊶greer fracma	TORAM Nish ga This. Y	mostly ay, -CARR		125-62.5
	1000 000									Stiron of	. 7	GRA					Star		RICIA		ST NO.			1005 1005 1005	* Kildy		
	1000-200	31.	.3	4		1.4	52.4	<u> </u>	1.4						2.9						69		69	1.00	1	11.48	
7 5	2000-100	32.	4 18	<u> 3,</u>			34.0	0.3	0.9					4.4	7.5				1.6		315	1	316	99.7	0.3	33.75	
FRACTIONS (4)	1000-50	0 54.	7 13	.2			20.5		2.4					1.5	4.3				3.4		327	2	329	99,4	0.6	34.69	
MC	500-25	0 42.	7 10	9	0.9		40.8	1.3	1.3		0.3			0.9				0.3	0.6		314	23		93.2	6.8	9.45	
	250-12	-	5 12.	_	3.1		30.7	1.8	4.3				0.3			-	-	7.0			326						
SIZE	125-62.	}		\dashv	3,9		40.9	1,2	2.7			0.7										9		97.3	2.7	0.31	
	., % > 62.	_	55 13.	1		0 17	33.14		1.56		0.03	0.3	0.6 to	0.3 2.45	5.07			5.9	1.90		337	23		93.6 98.96	6.4	0.03	< 62 Å

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE:				lou.				[ŒΙ	PTh	∤: 3₽	<u> </u>									_	29 25			
WH	OLE SAMP	בב טו	E3Uí	117 11	ION				SIZ	E	FRA	CTIC	N D	ESC	RIP	ΓΙΟΝ	<u>s_</u>	····						<u> </u>	·	•
	4000-2000	USCdu?	ī,worn	,frost	ed, sl	ightly	borea	and end	crusted fr	адли	ent.			relat 3. FC relat	ively RAM ively	fresh fresh fresh	angula to sli , whole	r frag ghtly and f	ments dull, ragmen	CARBON and del worm an ts, Eds or inne	l, fro d frag INOID	osted. Gmente fres	worn : d, P. i h plate	fragmer FORAM=- e and	nts,	500-250
	ĕ langu		ments,	ECHIN	GIDf	resh pl			relatively s, B. FORA					ostl fragm ECHIN	y word ented 10101	n, fro: , P. Fo rela t iv	ited fr WRAM+-f Waly fr	agment resh t esh pl	s, 8. o slig ata an	AL CARB FORAM htly wa a spina ear, ar	relati orn, wh e frags	ively nole a ments,	fresh, nd fra X-CAR	whole a gnants B	and	250-125
	O fres worn fres fres	h, angul ,often G n to sli	ar fra nipoed ghtly -CARB.	gments ; many dull,: warn	, B. F agglu mostly and/o	ORAM itinated whole,	fresh foram ECHIN	and who frages OIDmo	D: MOLLUS ole, and c ents, P. F ostly fres i fragment	ull ORA h p	, K	у		frost fresh worn, X-CAS	ed fro to s whole 3.+-wo	ighent: lightly e and orn, fi	; fewe / worn, Tragmen	r fres mostl ts, EC	h, who y whol HINOID	AL SANS Te shai e, P. F fresh WARTZ	il she' FORAM- n plate	lls. B -fresh e ana	. FORA "to si spine"	M ightly fragmen		125-62,5
										_	/	IN T	YPE	,	/											
4	4000-200	o 100																		1		1	100	0	0.09	
FRACTIONS (4)	2000-100	o _{59.}	3 14.	3			3.7	22.2												27		27	100	0	0.35	
NO!	1000-50	32.	321.	5 17.1	3	2.3	0.3	<u>15.3</u>									0.5			574	74	578	99.3	0.7	0.79	
RACT	500-25	28,	21.	6 30.3	1	5.7	0.6	11.6	1	.9										319		319	100	0	2.10	
1	250-12	5 15.	3 21.	2 41.8	3	11.7	1.9	4.8	1	او.		0.3								516	?	318	99.4	0.6	6.13	
SIZE	125-62.	22	13.	3 22.3	3	28.8	5.0	5,6	0	.3	0.6	0.6								323	23	346	93.4	6.6	13.13	
	Σ % > 62.	5 22.7	7 17.4	6 27.90	ا	20.25	3.46	6.51	0.	92	0.32	0.42					0.00			1560	29	1589	95.93	4.07		< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT. %) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARSONATE

	MPLE:	2526) E Ni	*********	וידמו	ONI					Di	EPTI	H: <u>_</u> _	:991									_	29 36			
4411	OLL SAMI	-C D	-301	VIE I I	O14					SIZE	FR	ACTIO	ם אכ	ESC	RIPT	IONS	 }							• • • • • • • • • • • • • • • • • • • •		~
		3Cyel sted wi				ingula ,	r frag	ments,	one s	light	ly			rala frag fres frag	tively ments, n and w	fresh, B. FOR Worn, W	angul AMfr hole a	ar fra esh ar ind fra	UNIFER agments nd worn agments osted f	, and , whol- , ECHI	freste e and NOID	ed, sli fragm∈ ∙slight	ghtly ented. Ely dul	bored P. FOR 1 plati	е	500-250
	frag //om	aWISH GR Ments an Haggiut Hindyma	d aull inatea	, slign	ntly bor	red, a	ngular	fragm	ents,	B. F0	RAM			fres fres whole	n, angu h to du e and f e and s	ilan fr Ill, wh Tragmen	agment ole an ts; so nagmen	is and id frag ime bla its, X.	dull forments, ackened -CARB	rosted P. FO , ECHI	frage RAM: NOID	nonts, Tresh t ∙fresh	B. FOR to slig to sli	AM htly di gntly :	ull, dull,	250-125
	00 fres fres \$11g 7-0A	OLIVE i, angul i to sli itly dul 88dul itly tra	an fra shely l, nus l, kon	gmenti dull, s tly who n fragn	and son whole an ole, LC: menus, c	re dul ed fina (1:518	l, bor romate fres	ed fra 4, P. h to d	gments FORAM- ull pl	i, B. Fines ata f	FURAM+: h to ragment	ts,		fres most frag	n, angu Ny fras	lar fr sh and ECHINO	agment whole,	s, and P. FC	MINIFER doll, DRAMf ate an	frost resh t	ed fra o slig	gments thtly w	s, S. F John, W	nojie ar		<u>125-62.5</u>
		<u></u>								/ /	/	IN T	, ,	,	/	Jani J		The State of the S						Set of S	te /	
4	4000-2000	100																		2		2	100	0	0.31	1
FRACTIONS (4)	2000-1000	55.1	27.9					7.0	ļ i											43		43	100	0	0.72	
NOL	1000-500	34.9	41.5	15.0		2.3		5.7					0.3					0.3		347	1	348	99.7	0.3	1.23	
RACT	500-250	12.9	30.8	45.9		4.3	1.8	4.0										0.3		325		325	100	0	3.80	
- 1	250-125	17.3	18.2	47.6		10.7	4.2	1.3									0.7			307		507	100	3	6.17	
SIZE	125-62.5	17.0	12.1	52.7		10.6	1.2	5.6												338	1	339	99.7	0.3	8.43	
	Σ % > 62.5	20.7	19.5	45.07	, 1	8.44	2.09	3.93					0.02				0.19	0.05		1362	2	1364	99.85	0.15		< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	·	2637A								DE	PTI	⊣: <u>ૄ</u>	; i						ITU!	DE:_	30			<u>ı</u>
.WHC	DLE S	AMPLI	E DE	SCR	IPTI	ON:_													LOP		JUE:	8.3	37 C2		
, , , , , , , , , , , , , , , , , , ,										S	!ZΕ	FRA	<u> 10TK</u>	ON E	DESC	RIPT	lons								
	4000-5000	1 Singat	Cver ly enci ted agg	rusted	with:	, relat finer s	ively edimen	fresh nt, IN	, angu TRAo	lar fra live gr	gment ay, s	, lightl	у		and ECHI aggr	usut whole; NOID egates	E GRAY SHEL resh to sli some worn fresh plate , X-CAR3 subrounded	ghtly from and chipped and spine dull, worn	sted fragma ed, P. FOR/ e fragments	ints. 9 Mfre Into	sh and	AMmos d whole	stly fr		500-250
	2000-1000	MULLUU	5+-m651	1 / re	lative	lv fnes	h. and	ular :	fesario.	Y CARBO nts; on to fria	a bla.	ak anad	tes.		B. F frag fras X-CA	OSCT ORAMH Hents, h plati RSW	E GRAY, QUA resh angula mostly fres P. FORUM e and spine orn, troste ny angular	r fragment a and whol fresh, who fragments I fragment	is and worm le, some wo ble and fra i, INTRAo s. OBERTY-	frost nn and gwents lawa a	ed fra sacot , ECHI	igments Thed; f .NOID	ew relati	vely	250-125
	000-200	and du	relati Il, wer -olive	vely :	tresn, HINCID-	angula -frosh	r frag πο sl	ments. ichtl	, B. FC / dull	AMB: M CRAMw plate ear, sui	hole, Engany	fresh			plate	ted tra	E GRAY SHEL agments, 3. spine fragm ear, mostly	FORAMwh ents. X-Ca	ale, fresh RB.∸-masil	to we warn	rn, EC ∵fros	LINATH			125-62.5
1	4000-	2000	<u> </u>								7	/	IN 7	,	<u> </u>	,	1 1								
(F)	2000-	-1000	50.0									 	-		-	<u> </u>	50.	 	2		2	100	G	0.24	
FRACTIONS (A)			64.3									-	 		ļ		35.	7	14		14	100	0	0.24	
9	1000		74.0	1.7	1,2		0.6	0.6	12.1				<u> </u>	ļ			3.1	1.2	173	9	182	95.1	4.9	0.31	
RAC	500	-250	14.0	47.8	5.1		4.4	2.5	14.6		1.3						10.:	0.3	315	554	\$69	36.2	33.8	1.¢5	
•	250	125	5.9	62.4	2.0		11.8	1.0	11.1		0.3		0.3				5,:	2	306	186	492	62.2	37.8	3.97	
SIZE	125-	62.5	18.8	21.8	1.6		41.6	7.1	8.1			0.3					0.1	,	308	618	926	33,3	66.7	30.05	
	Σ%>	€2.5	18.71	28.97	1.73		32.37	5.42	8.74		0.14	0.22	0.07				3.5	0.07	1118	1367	2435	37.99	62.01 l	53.13	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

AMPLE:	261	35A								DE	ЕРТН]: <u> </u>	<u>76 + </u>									_		53 25 12 24		-
HOLE SA	MPLE	E DE	SCR	NPTI	on:					SIZE	FRA	OTIC		ESC	RIPT	TIONS	 S	·						<u> </u>		-
9 (YELLOU relativ fragge 20HING	rely f. Nova:	nash. Tv bla	angula nkeced	1 fron - 8970	mints. Z∂éd	and dul	1. 25:	ATE SAM	15: Ki	DLLUSC- encrus	. 1		CRIE angu meny chip INTA	NISH C lan fr black ped, E Agree	RAY (UA agments ened, B CHIMOID enish g subrou	RTZITI and d . FORA fres	Mfra h to s	voen, t Esh and slight!	frastec Lwhole Lv worr	: and/d e; and n plate	or bona whole and s	ad frag , worn: spine :	gmants, , ofter fracter	its,	500-250
0001-0003	YELLOWI dull, v fasjoer worn fr	orn it ita, fi	med f univol	nagilan O-Haul	55, 554 ., wor	ny blac n blate	ikanad; a fra∈t	some enti.	frash, GALYOZO	LUSC , angul)Asul	-mostly lar ll,			inast 20HI anuv	ly wor: :015 . fria:	RAY SHE m, fros mostly ble agg ear to	ted fr fresh recato	ragment plate s. X-C	is, B. and sp IARB	FORAM- Zino fr Worn.	-mosti ragmant froste	ly fres is, IN wa frac	in and TRAgr	whole, reenish	i	250-125
05-50	TELLIMI mostly relativ wore, n slight fragmen	wonn, Sly fr Itan r Vyorr	frust Mato, v Inip, M Nalis	ud and, angula: : uki: : asa	'or bo t fret Digat	red fra ents, } blac teac.ac	incents B. FOR Pennd, Pennd,	, rucy AMwi CCnli CAPM	r black Walau b	.ened; ⊿t ans	fawer	11,		tragi and v	ments; whole, frost	RAY CAM some f ECHINO ted fra	resn, IDfr	angula esh ol	ur frag late ar	ments, d spin	, B. FC Le fran	lRAM++n Sonts	rostly . X-045	fresh		125-62.5
		/\$\f				,				, 7	GRAI				,					Ser Ser	\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\					
4000-2	2000	95.6						2.2					2.2							45		•	100	0	ê.18	
2000-1 1000- 500- 250- 125-1	1000	95,8	<u> </u>			0.9	0.3	1.2					1.2					0.5		328		328	100	J	4,64	
1000-	-500	84,9	4.1			2.2	3,2	4.1					0.6				0.9			316	14	330	95.8	4,2	4.65	
500-	-250	66.S	14.5	1.3		2.3	3,5	7.5		0.9							2.5			317	184	501	65.3	36.7	9.83	
250	-125	27.3	24.9	2.5		23.9	4.7	9.9		1.5							5.3			322	583	905	35.6	64,4	31.44	
=	ļ	27.7	9.5	0.3		45.0	11.4	4.2				0.3					1.5			307	979	1286	23.9	76.1	30.23	
$\Sigma \% > 6$	62.5	57.99	11.60	0.37		15, 25	A 95	F. 70		0.50		0.03	0 66				, ,.	0.05			1750	2205	1,5 5.5	<i>-</i>		< 62

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	2640A	 .							D	EPT	d:	115									_		43 31		-
WHO	DLE SAMPI	LE DE	ESCF	RIPTI	ON:															LOi	NGIT	UDE:	87	54 32		-
										SIZE	FRA	CTI	DN C	DESC	RIPT	ION	<u>s_</u>									-
	O mosti	WISH GRU y dull, some bl R8bor	worn, Lacken	bored ed, ECH	fragme :INOID=	nts, m -sligh	ost bl tly wa	ackend nn pla	d. BRY	0704	dull.	C		trost twicele	ed and , and ments,	l∕or bo dull, X-CARE	red fr worn f wor	agment ragmen n. fro	Z SAMD: s, many its, ECh sted fro angular	blac INOID aomen	Kened, fres ts. CU	B. FO h plat ARTZ	RAMf e and	resh a spine	nd	500-250
	SAID: Tany Warn bored	WISH GRE WOLEUS blackens fragmens fragmen gulun to	10mad :d; fev :v. EGH :tv. iv	itly du v fraso HIHOID- rosuula	ll, wo: , angu -fresh cly=sh	rn, fr lan fr plate wed	osted agrent fragm mastz	and/or s, BRY ents,	bored 020A X-CARB	frage dull, dul	ents, slight l wor	ly n,		ard s	ments, pine f Bwo	B. FGR ragmen rn, fr	AMmo ts, IN osted	stly f TRAg fragse	Z SAND: resh and reenish ats, Qua lar to s	d who gray ARTZ-	le, EC , fria! -clear	HINCID ble ag to sl	fres arecat	h plate es.	ed a	250-125
	OO Shall	ISH GRAY MOLEUS blackene s. B. Fo lackened fragman icon-sta	:0mas :d;	itly du % fres mostly : m/GAd	ll, wom h argul whole, wil. si	m, fro lar fro but wo limbth	osted a agment: orn to v worn	and/or s and smoot . X-CA	bored fresh hed, o	fragm whole ften c	ents, snail hipped	1		fragit aggne Tragin	ents, gates, ents, gular.	B. FOR B. CA QUARTZ	AMfr RBw	esh an orn. f	TZ SAND: d whole: rosted i lightly	, INT: fracm:	RAgre ants.)	eenish X-CARB	gray.	friabl n. fros	le stan	125-62.5
		<u> </u>								, -	-/	IN T	,			, /*/*				ALI SUL				Biticolist.		
4	4000-2000	85.9					2.8	4,2					7.1							71			100	o l	5.31	
77	2000-1000	84.€	1.0			2.9	6.4	1.0					3,5				0.3	0,3		313	15		95,4		5.79	
IONS	1000-500	89.7	7.2			3.5	5.6	1.3					1.6							305	280			47.9		
FRACTIONS (4)	500-250	57.5	8.8			25.3	5.8	2.3		0.3			110	ļ										84.6		
FR	250-125		19.4	1		24.7	6.8			0.6							2.2					.2000 3940				
SIZE	125-62.5	}	† 	1			26.1	1.3	0.3	0.0	0.6						3.3							91.9		
	Σ%>62.5			0.53			5,38			0.14	0.0 tr		2,41					0.07						\$7.6 70.44		< 62.4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMI	PLE:	26414								Di	EPT	H:	1181			4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 	****		L.A		DE:		45 35		•
WHOL	E SAMF	LE D	ESCF	RIPT	ION:_														LO	NGIT	UDE	<u>87</u>	46 41		-
										SIZE	FR.	ACTI	ON E	ESC	:RIPT	TIONS									-
	4000-2000	USCthr	ee are	fresh	, angu	lar fra	igments	; one	is wo	rn.and	black	ened.		fresi and a	ted and 1 to sl Fragmen 1ish qr	/or bor ightly us, ECH ay, fri	ed tra worn; INOID- able a	donate Qua gments, so some worn -fresh pla ggregates, y transluc	ne blac fragmer te and X-CARS	kened its, P. spine }du'	, P. FO . FORAM fragme !1 worr	ORAMm Kfres ents, I	ostly h, who NTRA-+ ded fr	whole, de armants	500-250
	00 150%	Owien GR Par freg Blacker COA-+sli	Tents, ed Yran	and c . Tabbts.	all, vo . 1970/	orn fro In-area	gwents cich c	, SUCH	: Doned	d and e	encrus:	ted;		and v	ments; whole, mish gr [Zcle	sone fr ECHINDI av. fri	esn, w Dfre able a	QUARTZ SAM hole snuil sh plate a ggregates, y transluc	shells nd spin X-CARR	s, B. f ne fray Nwou	FORAM imants, in fro	-mostly , INTRA	fresh	+c	250-125
	000 100 ECMI	Oxión Gk. SOmost rened, a reneditar OIBme Ole aggre Igulan.	tly cul few fr and wo lativel	i, wer tech fr ern, Bä V f r es	na, fro Tagnerit KYOZOW- to mlat	istud a is; who dull, re fran	nd/ur le sna sligh ments	bored il she tly wo	fragne 11s. E rn fra	ents,: B. FORA igments	any M			whole	mento; e, ECHI . friab	some tr NOIDf le accr	esh, w resh p ecates	QUARTZ SAN hole snail late and s, , X-CAR6 ucent, ang	saells Sine fr -Worn	i, B. P ragment frysta	ORAM s, INT	mostly RAgr	fresh éanich	and	125-62,5
		/;							, Control of the cont	/ /	/	IN T	,		, 								Stidolis V		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	000-2000	, [50							ĺ										1 4		Ī	1	İ	1.62	
SIZE FRACTIONS (AL)	000-1000					2.8			<u> </u>				2.8				2.8		1			100	0	-	
	1000-500	1				1.9	1 0	1.0				<u> </u>	1.9			$\mid - \mid \mid$			36	170	 	100	0	0.44	
A A	500-250		1	2,5		12.2		5.0	1	1.3			1.3				1.0	_	210	134		 	39.0	 	
	250-125		25.4	i -	 -	26.3		6.0		1.3							2.2						83.8		
317 F	125-62.5		12.6				12.0		0.6		0.6	0.7		-			2.2			 	3744		91.6		
Σ	% > ε2.5		12.0	2.17		2012	±4.0	٠.١	0.0	-	0.6	0.3					4.9		32b	1817	2145	15,2	84.8	6.39	

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMPLE	<u> </u>	2642A			.					DE	PTH:	118'									-		40 2 37 0		-
WHOLE S	AMPL	E DE	.50h	(IPTI	ON:				S	ZE	FRAC	TION	DES	CRIPT	FIONS	 S					······································			****	_
4000-2000	1 1/656	. chggil	ar tra	ccents	: duli	0 1 1 0	ntly	arn fr	NATE SA	ND: N	401 : L'CC	7	YEI and B.	LOWISH /or bor FORAM te frag an to s	GRAY Cared frag	NREONAT	, some Die, ar	blacke nd worn	ned; fragi	some fi wents,	reshja ECHIN	ngular 010f	-fragπ resh	ents,	500-250
2000-1000	fragme	nts; m nts; so nagment ly worr	my da ome 51. os. IN	II, W⊃ Ackene 184c	nnitro: difrogr aderata	sted f Gents, Blv fo	ragmen BRYOZ(tubato	ts: fe VAfre	wany frew dull, we dull, gash to m ggates, translac	worn, modera	boned Lely		INT	LOWISH gments, RAgrea gments, subungu	enish g QUART2	:AM→+IY Irav. f	esh an Friable	id viholi Landoui	e, ECh	-CIGNIE ://o_v	-fresi	h plat	a frags	Gents,	250-125
1000-200	some c	nes, su resh wa nipped; naghent	ole sr sche s. FC-	n tro: nail sh fresh :!!!!!!	stod ar vells, to wor frase	id/or t B. FOI n frac	Bored (BAMfr Bents, Banti	iragmar tesh to BRY02	nts; son	ne bla lly wo sh to	angular ckened; rn, whole slightly nts, ed.	=;	fra	LOWISH (gments, gments, frost	INTRA- ted fra	mu=+ir ∸green ocents	esn an sih un X-04	a whole ay, fri 38	able able	runan- aggreg assted	≔Trest ates,	i, wroi B. CAi	e and 13		25-62,5
		4								7	GRAIN								A CONTRACTOR						
4000-		92.6										7.	!	ļ					27		27	100	0	6.77	
2	-500	37.8						1.1				10.	6			0.5			133	1	189	99.5	0.5	2.57	
500	-250	88.3	3.2			1.1	0.2	3.0		0.4		3.	6			0.2			527	530	1057	49.9	50.1	2.42	
250)-125	48.4		1.6		25.7	2.2	2.6		1.6		0.	<u> </u>			0.6			312	3577	3889	8.0	92.0	3 7.4 3	
u]	62.5	31.1	12.4	1.9		41.6	6.5	2.3		1.2						2.5			522	3825	4147	7.8	92.2	48.19	
		22.7				37.7	18.2	1.5	_		0	.3				3.5			313	1765	2078	15.1	84.9	3.79	
Σ%>	62.5	70.30	38.5	0.69		13.73	1.90	1.40	1	0 57		, ,	,	1 1		, ,	i	-		1	ı				_

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	MPLE:	26	43A								DE	PTH	: <u>23</u>	5'										29 97			
WHC	HOLE SAMPLE DESCRIPTION: SIZE FRACTIO													N D		~	300			ــا 				3/	27 - 67		
											NZE.	FRA	UIIO	NU	<u> </u>	(IP)	IUN	15_									
	002- 3.	red an ill ho -CARB.	d encr le, CC dull	usted RALG , worr	fraga. -dull, 1, encr	MATE SA ents; o boned, nusted ted, of	ne rel encru and bo	lativel usted b ored fr	y fred Granche Magnent	sh frag ed frag es, X-C	ment . Ments. ARB	≀ith •		:	nostl iron- whole ECHIM worn,	y dul stain and OID fros	l, wo ed, B fraga dull, ted f	rn, fra: . FORAM ents, b worn, p ragments	sted or mostl lackene plate a s or sm	ATTIC SHEET bored for worn and and income and spine moothed as mostly:	ragmer nd dul n-sta fragn nd shi	nts; : ll, am ained ments iny; :	many b nd smo ; few , X-CA many i	lacken othed fresh .RBm ron-st	ed or and sh and wh tostly ained,	iiny, ole, dull,	500-250
	0001-000	red an - PORAM On-sta PALe	d enor most ined, all, w skaned	usted By who CORALO orn fo L, X-CA	fragme de, bu adud raccent	NATO SA ents; m lo worm il, fra is, BR7 dull, w	any am , bane gments 020A	re blac ed and i, most dull.	kened chipp: chipp: centro worn.	or inc id, bla ustad a often	n-stai ckense ind por infill	inad. Land red, Led:			MOLLE Worn mostl smoot	SCm most / fre thed,	ostly ly wh sh pl shiny	worn, dole, P. ate and fragmen	frosted FORAM- spine its, ma	Y CLARTZ i fragmen fresh, v fragment any iron- stly suba	s, B. hole , X-0 taind	. FOR and CARB ed; a	AMfr fragme most iso wo	esh to nts, E ly wor nn, fr	slich CHINOI n,	tly D	250-125
	002-00	ll, wa pa-sta panta red fin	nn fro ined, y, oft gment QUART	sted o 5. FST en bla 5, and	on born (AMmo (okenes I worn,	MITIC Stand (may bottly will be included) and included translations and the major translations are major translations and translations are major translations.	rents, hole, on-sta hed an	, some Lut du dia∈d, d shir	slight Al and X-CARR W frac	ly bla : worn !dul ;ments,	icketed on sim 1, wor . most	or othed n and iron-	:ly		worn, fresh and s	fros and v pine Zmos	tad f vhole fragm	ragments; ; few as ents, X-	s, B. F re blac -CARB	SHELLY CAR FORAMIn- thened, Ed mostly v	sh ar HINOI Jorn,	nd who IDfi frosi	ole, P resh t ted fr	. FÖRA o worn	M , plát	1	125-62,5
		,	Į.								- 7	/	N T														
لہ	4000-20	00	10.4				58.6	24.1						1.7							58		58	100	0	10.98	
FRACTIONS (4)	2000-100	00	11.2	7.2				10.6	0.3					2.6		0.6				3	48		348		O	19.00	
NO	1000-50	00	18.4	11.5	0.3		58.8	9.0	0.3					0.3	1.9				1,5]] 3	23	12	335	95.4	3.6	20.62	
RACT	500-2	50	35.4	10.5	0.9		37.3	7.5	6.3				0.3	0.9	0.3			0.3	0,3	3	33	10		97.1		32.77	
ì	250-1	25	22.5	5.1	4.2		50.7	12.8	3.5					0.3				0.6	0.3	7	12	35	347	89.9	10.1	7.78	
SIZE	125-62	2.5	37.2	8.5	5.2		26.8	8.3	4.9				0.6					7.9				124		72.6		0.95	
	Σ % > 62	2.5 ∫	21.88	8,30	0.76		51.46	i6.95	2.68				0.11	1.10	1.79	0.10		0.21	0.47	1	702	181	1883	97.02	2.98	7.91	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE:_		2644A								DE	EPTH	∤: _	242'				·					_	29 87			
WHO	DLE SA	MPLE	ב טב	.SCR	(11 64)	⊃N:_		*			SIZE	FRA	CTIC)N C	ESC	RIPT	TONS										-
	용 1:	fragnen	ts, 28	KYÖZSA-	-dull,	worn,	(ATE SA encru	sted,	X-CAR	3dul			ed		dull, smoot mostl X-CAR	worn, hed); y fres Bmo	GRAY, froste some sh and whatly wo tained.	d fra iny o hole, rn, f	gments r <mark>c</mark> hip ECHIN	s, B. FO pped; sa NIODdu	RAM me in 11, w	whole, on-sta orn pl	fresh ined, ate ar	and we P. FCR d spin	rn (so AM e frag	me ments,	<u>500-250</u>
	0001-00	Mull, w ,-60 occ Mull, m	orn, b d, ofr orn fr ed. X	nnad f Gen Chi Cymens -CJURC.	Thagwen iphed: is. CGR dull	ts, B. some b AAG	KAMIMIF FORAM Diacked dull, duang	most ed and worn,	ity who Linon- boned	de, bu staine fragma	it worm id, BRY ints, c	to 020A often	1		fragm but w	ents, orn to v fres	CRAY, some in some in smooth in and w tainea,	on-st ed. b hsle.	ained, Tacked X-CAS	, 8. FOR ted and Wawor	AMf iron- o. in	nesh a staine ostad	nd who d, P. to shi	Ge,and FORAM- ny fra	whole - aments		250-125
	000-200	MOLLUGS (man-st many ol (-CAPB) many in	most ained, icrene dull on-sta	lly del B. FC d er i , ween	!!, wor DAMs Indh-st I to sm some b	a, into ostly sined, tottle ored,	MAMINIE Sted f whole, Domin I fragh Innegu	ragien Worn OIDd Ants, Tarly-	its, so to sho Will, : Often	ne bla withed, worn pl frosto	ckened often ato fr a or s	Lor chippe acrent	ed;		MOLLU B. FO ECHIN frist	SCwo RAMf UIDf le agg , nost	E GRAY, orn, fro tresh and fresh pl tregates tly angu	sted d who ate a , X-C	fragme le, P. nd spi ARS	ents and . FORAM- ina frag -worn, f	fresi -most ments roste	h, who ly fre , INTR	le sna sh and Agre	dl she Ewnole enish	lls, gray,	:	125-62.5
			/\$, -		IN T	YPE	S (%												
1	4000-20	000	9,3				78.1							6.3					6.3	1	32	2		100	a 0	3.33	
FRACTIONS (A)	2000-10	000	14.9	25.0			50.8	1.5	0.6					1.9	2.5	0.3			1.5		323		323	100	0	00.46	
ONE	1000-	500	28.0	23.2	1.6		43.4	3.2	1.0					0.3	0.3				1.0		315	1	316	99.7	0.3	42.82	
RACT	500-	250	25.4	13.0	9,9	0.3	43.7	1.2	3.7			Ì		0.3				0,6	1.9		323		323	100	ð	28.69	
- 1	250-	125	17.2	8.9	5.0		58.3	6,6	1.7					0.3				1.7	0.3		302	17	319	94.7	5,3	0.40	
SIZE	125-6	2.5	23.2	7.2	3.8		43.3	2.5	2.8				0.3					16.9			319	31	350	91.1	\$.9	0.40	
	Σ%>6	2.5	22 72	19 61	2 72	0.00	46 57	2 23	1 70				+	0.05	0 65	0.06		2.23	1 63		1014	10	1.000	33.53	3 31		Z 62 //

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARSONATE

SA	MPLE:	6154								DE	PTH	l: 3	ec.										29 3 87 1			•
WH	OLE SAMPL	E DE	SCR	IPTI	ON:		····	·		SIZE	FRA	.cTic	 NN D	ESC	reis	IONS				LON		JUE •		0 50		- -
	2 Bornd Bk10Z0	and enc Adull tea, br	rusted , worn anched	fraga fragm fragm	ARBOLATE S monts, EChl monts, CCFAL Ants, X-CA Ty-shaped	IMOID .3 NRB	idul dull.	ll, wo . warn	-mostl ra spi	y dull ne fra d and	, worn gments	,		LIGHT frost fragm and f	OLIVE ed fra ents; resh, tly wo	GRAY gments many b ECHINO	SHELLY , B. F lacken IDmo osted	ORAM ed or stly f fragme	NATE SA mostly iron-st resh pl nts, so	whole ained ate a:	, fres , P. F nd spi	h and ORAM ne fra	worn; mostly gments	some whole , %-04	RB.	500-250
	OO freshe	fragwen ble, an askered	its; so d whol , COPA ants,	re fre e, but LGm X-GARB	ARBONATE Sign and and and and and and and and and an	pular Di and Li wo	fra: d fro	ments stad, muach	, B. F often ed fra	623M Chipp Rinonts	fresh ad; so: : fewo	me I		frost1	v dull	word	Pros	ted fr	HELLY Cagments tently ents, SCARS	· som	a fres	h saha	la era	i 1	- en, s,	250-125
	o worn, and wn often	frostud ole, bu bored;	and/o tworm some f	r bore , with resh f	Chilly 67 d frog east chiosed c ragnests, irregular)	s,3 rdges X-CA	. FOR , COP RS	(AMf (ALG (dull,	resh a -dull,	na who worn	le, fragme	nts,		worn, tresh X-CAR	froste . whol	d frag e and stly w	dents, frace <mark>e</mark>	B. FC	HELLY C RAMmc NTRAg fnagme	stly reani:	fresh . sh dha:	and wh	ole, P able a	. FORA coreca	M tes.	25-62,5
		_{\(\)				/ **/*********************************				, -		N T		<u>, y</u>	,											
7	4000-2000	15.3			66	.0		1.7						15.3						59		59	100	0	7.30	
FRACTIONS (A)	2000-1000	13.3	24.9		47	. 8	1.5	0.3					0.5	10.6				1.0		385		385	100	0	32.43	
IONS	1000-500	31.9	9.0	0.€	44	.1	1.5	1.2					0.5	8.2				2.3		342		542	190	3	29.72	
3ACT	500-250	38.0	2.7	3.2	4:0	. 1	1.7	4.1					1.5	0.9			0.3	1.5		344	1	345	99.7	0.3	18.93	
1	250-125	31.5	6.6	8.3	<i>t</i> ₁₂	.1	4.0	5.0	0.6	-		0.6					1.3			302	7	309	97.7	2.3	2.20	
SIZE	125-62.5	35.5	5.3	5.2	38.	3	5,9	1.9				1.3					5.6			321	19	340	94.4	5.6	0.56	
	Σ % > 62.5	25.23	13.90	1.10	46.	25	1.5€	1.61	0.01			0.02	0.81	7.87			0.15	1.41		1753	27	1780	00 92	0.16	2 79	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	047-3-40								Da	EPTI	hl:									TITU					_
WH	OLE SAM	PLE D	ESCF	RIPTI	ION:_	<u>-</u>	·			·					A					LOI	VGIT	UDE	84	20 25	i	_
												<u>ACTI</u>	<u>ON E</u>)ESC	RIP	<u> 1101</u>	<u>s</u>									
	8 17	re scale; crusted; o deuleted ARBdul	ne rai Sivily	ativei, es. Cu	y tresh Ká ==di	limpe Nasali	cyone wakea	bhaker 40767	i barno Massa	016;	for this			linest elong	led fr. late bi ative	agmunt ranche lv fre	s, oky: d frage sh spic	MUNc whes,	MATE SAN MATE SAN MOEM TO SOME WO J Innegu	agnen BEs va or	its, 22 erpuli	RALG id frag bad r	warn, ments,	, smoot ALCYC	ched,	500-250
	<u>~</u> 1 € 6 26	Lowish Bu Denfonati MITOSE-SE ARBI411			00.00	1.1 年月 [Bolk	1. Sac at 25		20 100	worn, fragn spine	pitted ments, fraga	i sents,		ECHIN	es, vo 010t y fras	ina tr fresh sh and	aguents to slig whola.	ALCY htly w X-CAK	LY CARS CMARIAS Orn pla Sdul prounded	pre te an 1 to	donnina disnin	intly w	rarn sp ∵run t e	ricules		250-125
	의 등	KIDH DRAY, Domed fins QUOAduN1 1, worn ar	grents Form);	relati Obumu	yely :	fras n ,	aggui.	ir fra	rn, pi gments X-CAS	tted , 3			nost kahole	suen relati spice	ni to Vely Jes a	irnosta fresh; ndismal	a. Wor 503a w Tan so	CULTIER. In fragma onn frag icule fi t fragma	ents. gm⊵nt: o∶ama	ALCYC s, S∓o o≠e Y	1.02144 1.024-e	whol longat	e spic e, nea	rly	125-62.5
		<u> </u>							, 	, ,	/	IN T			, , ,	J. Carl		RE WO		A STAN						
4	4000-200	21.7		<u> </u>]j	12.5							2.2		3.2					95		93	190	2	7,04	
2	2000-100	00 51.7	0.6			22.8	 	1.2					8.3	0.9				4.5		357			100	0	17.37	
ION	1000-50	0 68.1	1.8			19.3		2.1					6,1	0.9			\top	3.7	1	327		327	-	0	46.9£	
FRACTIONS (AL)	500-25	53.8	1.8	3.0		21.5		2.6		0,5	0.3	2.5						2.1		338		383	100	0	20.85	
i	250-12	25 54.1	3.7			27.7	0.3	3.7	0.3	1.4	1.4	<u> </u>					 	0.6		353	25				}	
SIZE	125-62.	.5 37.6	2.1			33,1	0.3				i	16.1				-	0.3	0.0		372	51		87.9			
	Σ % > 62.	.5 64.45	1.54	0.1.:	1					0.17	 	0.84			0.24		1	7 3.		10.10	7.1	1010	0/12	14.1	0.51	< 62 41

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:	52-A	1	-							DE	PTH	l:											49 53		-
WHO	DLE SAM	PLE	DES	CRII	PTIC	N:_														LON	!GITI	JDE:	53	31 0	:	•
						_					SIZE	FRA	CTI	ON D	ESC	RIP	TION	<u>s</u> _								-
	⊇llfra	LEOWISH agments; 11 plate	two	are di	:11. u	mode.	disar	ricula	ted va	TURC	DATE TOTAL	DA			Worn HALI	fra: MWDA:	gments, dull,	B. FOR	AMmos late fr	ONATE SAND: tly whole, agments, X- rounded.	fresh (on dal	and	cnippe	d,	<u>500-250</u>
	0 000	SeT OLIV red frag N fragm agments,	rents ents,	some often	dull infi	, who	le dis. EMALIM	anticu 304r	lated elativ	valves ∍lv fr	, BRYOL esh pla	ZOA ate			worn some	and dul	pitted Land wo	fragme rn, ch	nts, B. ipped, .	ONATE SAND: FORAMrel X-CARBau rounded.	atively	v fres:	h and w	whole:	ed,	250-125
	O bor	BHT OLIV red frag ten chip	chits	25.10	ムレハーゼ	ull.	นร์ โอก ()	inrill	ed. B	EGSAM	!dull	nit+	ed,		dull rela	to t tivel	rosted	fragme and w	nts; som hole, X-	SHELLY CARB me angular, -CASBdul	thin 1	fragme:	nts, B	. FORA	M+- ents,	125-62,5
		_									, 7			YPE		,							\$ / \ \ \$^ / \	S. S. S. S. S. S. S. S. S. S. S. S. S. S		
7	4000-200	00 68	.7			18.7	6.3								6.3					16			100	0	0.27	
FRACTIONS (A)	2000-100	00 25	.2	0.3		2.0	58.8	8.5	0.3					3.3	0.3				1.3	306		306	100	0	5.07	
NOL	1000-50	00 35	.7	2,2		0.5	45,3	13.7						2,2					0.3	314		314	100	0	31.16	
3ACT	500-25	50 48	.3	4.4		ر دع	34,4	3.2	2.4					2.7	0.3				0.3	340	1	341	99.7	0.3	38.87	
	250-12	2 5 45	.9 1:	2.2		1.5	31.3	7.0	1.5					0.6						329	4	333	98.8	1.2	8.41	
SIZE	125-62.	.5 ₅₁	.3 1	1.3		0.3	30.0	3.7	1.9			0.6	0.3					0.6		320	81	401	79.8	20.2	0.92	
	∑ % > 62.	.5 42.	33 4	. 15		2,16	55.47	7.77	1.29			tr	tr	2.30	0.19			tr	0.33	1625	36	1711			14.90	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAI	MPLE:	64-	· B - 1								DE	PT	ا :											27 : 83			•
WHO	DLE SA	MPLE	E DE	SCF	RIPTI	ON:_					SIZE	FRA	CTIC	או ר	YESC	FIRT	ION:	<u> </u>						•	24 :		- -
	오! !	YELLOW MOLLUSO X-SARR.	lmost	∷ìy du	11, pii	tted, :	baned.	worn f	ILLY CA fragmen	PRONAT	F 54%	ì ·			MEDIU frost worn, dull	om GRAV ted, wo	,CORRI orn, pi n smoot osted,	DED, Sitted f	ragmer hipped	CAREONA its, some I fragmen I fragmen	obla ots.	ckened some b	i, B. Hacker	-FORAM -X ned. X	-mostl CARR	-	500-250
	001-00	MEDIUM pitted stained BRYGZGM correce carbona	and bt I. B. F Iworn Id, Wor	reu ta Gazii- Lifraga Mifrag	rugiant -Wurn. Tents, ,ments,	is, Wor enippe often	rn, roe Ed. sla Hofill	nded, chened od X-	often Land Japa -	blacke iron-s	and or tained	iron-			and w some fragm	to fro hole; agglut ents,	sted, some w inater X-CARE	warn f hale, Liforms	ragmen worn, , ECHI 1 to f	SHELLY its, B. i smoothed NOIDre rosted,v	ORAM Lor Mati	most chippe valu f	ly rel d; som	lativel me frag	y fres ments:		250-125
	500	MESIUM work, a connoce pitted aggrega	abbed difrag fragma	inaget ments.	esto, o . seme	itten : slicht	olacken Hy bla	sa, 8. ckesed	FORAH L X+0A	most RR ==d	ly wor oll w	n, orn	te		fragm	ents, plate ents,	ป. rUH : and s	AMre pine f	lative nagmen	ATE QUA ly fresh ts, X-C/ angular	; and √R3	unose -dull	, cum! to fro	OMODEL SERVICE	2001271	sted vely	125-62,5
			_\\.										IN T	-		/			iti ki		Signal Signal			AN S	S. R. C. C. C.		
7	4000-2	2000	57. ∂				16.9	10.2						5.1	!						59			100	0	6.51	
<i>म</i>) इ	2000-	1000	39.2	4.3		0.3	36.9	15.3	0.3					3.0					0.7		301		301	Ì		13.79	
FRACTIONS (A)	1000-	500	45,2	9,9		0.3	25.5	16.2						1.9							314		314		0	48.21	
RACT	500-	-250	42.2	17,0			24.5	11.8	3,3					0.8					0.6		306	ij		98.7		24.58	
	250·	-125	33.8	24.C	0.3	1.2	28.4	3,9	6.6		0.6			0.3				0.3			334	33			9.0		
SIZE	125-0	62.5	39.2		1		37.9		5.0	0.3		0.3	0.7					0.3			301	259		53.8		0.64	
	Σ % > 6	62.5	45.22	10.74	0.01	0.25	25.48				0.02			1.91					0.17	-				84.5			< 62 <i>4</i>

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT. %) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE:				וידמוג	ON					DE	PTI	ተ፡ <u></u>									ritu Igiti			28 40 14 23		- -
W FIC	ile Si	~	ב טנ	SUM	ar H	OM:				S	IZΕ	FRA	CTIC	ON C	ESC	RIPT	TION	<u></u>				· · · · · · · · · · · · · · · · · · ·					-
	\sim	/ELLOW pitted augula often	and bo "fragm	read fr Meats,	raigment X - CARE	s, of: du	ten eer	custed	· cone	mostly relati	velv	frech			frag worn	ied and ments, Fred-s	i bored , ALCYC :haped	l, worn NARIAN fragne	fraga dull nts, X	ATE SA lents; , worn (-CARB.	some m whole dull	elativ spicu to fr	ely fr les, C osted.	resh an ORALG.	gular dull		<u>500-250</u>
	위	pisted. Skybzba	.sured whol .erpuli ≀os, of	worn t e and ditrac	rdag ser Work, Jenus,	its: f. CORALI . X-CA	uwer re 3wor 13du	lative n, rod ll. wo	ly fre -shape rn. bi	d fragm itted as	olar f monts, monts	napaun - WURM en .	its,		frag ECril	USCd wents, MOIO	lull, p . ALCYō ∙slicht	itted NARIAN Iv wor	to fro dull n spin	PICULIFI sted, v . sligi e and ; QUARTZ	worn fi ntly wo plate :	nagmen Drn, w Eraoma	ts;few hole s nts. X	r fresh piculo 1-0458	angul s, doll		<u>250-125</u>
	읪	YELLOW worn, g WORM To fragme.	n Ltea, 182se	rpulid	Lifraga Lif <i>ra</i> ga	lants; lents;	tew_ne X-CARB	lativa	12 fre	sh and	บริวท	frannu	nll, ents,		MOLL slig shap	USCf htly w ed. sp	rosted orn, w vicule	, worn hole s fracme	fragn picule nts.X	SHELLY ents, / st some -CARB subred	ALCYON 2 fragr frost	ARIAN- ments, ted. w	-relat SPOLS	ively E-•cla	freshi ar. re	* ^	125-62,5
			/\di								7		IN T	,	S(%	/ 			RAN IN		15 15 15 15 15 15 15 15 15 15 15 15 15 1						
1	4000-	2000	80.0				13.5	0.5			L- <u></u>			1.1	i	ĺ			2.7		185	Z_` _	185	1	a	13.91	
FRACTIONS (A)	2000-	1000	56.6			0.3	20.9	1.3	0.3					3.4	3,4				7.2		320		320	 	0	21.54	
	1000	-500	59.4	1.4		0.5	24.5	0.6	1.4				0.3	1.7	1.4				8,7		355		355	}	0	31.76	
ZAC.	500	-250	52.8	1.6	ο.ε	0.5	30.4	0.9	1.6		0.3	0.3	3.1	2.2	3.4				2.2		322	3			0.9	19.40	
L L	250	-125	42.2	2.3	9,3	1.0	29.1	1.3	4.3				14.7	1,6	1.3			0.3	1.ô		305	78			20.5		
SIZE		62.5	32.3	6.3			28.1		1.2		0.3	4.9	32.0	0,6	0.3						328	25			7.1		
	Σ%>	62.5	52 95	0.96	0.15	0.47	24 04	0.05	1 22		0.00	0.10	2.11	3 00	2.35			2.00	c		1016		1000	21.5		Ž.	< 62 U

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DCYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

	MPLE: OLE SA		7-8-11		IPTI	OM.					DE	PTF	ქ:											28 04			
****		*.*/i <u>L</u> _				0:4					SIZE	FRA	OTIO	ON D	ESC	RIPT	IONS	<u>S</u>	·•••								-
	8	PINKISH word fr BRYCZGA fragmen	agment dull	s, and	i relat	ively.	tresh,	angul	ar fra	aments	: some	encru	d sted,		pitte sligh spine QUART	d frag tly wo frags Z-+cle	ments, rn, wh ents,	CORAL ole sp X-CARB bangul	Gdu icules dul	ll fra , ECHI l to f	gments NCID rosted	, ALCY relati . pitt	ONARIA vely f ed. wo	Ndul resh p rn fca	l, mos late a cments	nd	500-250
	위	PINYISH boned BRYGZOA BOXHIVOT boned,	ausi Dwor	mrago n spin	ents, Waad	some : pla t e	ntille franko	d, WOR nts. X	M TUBE -CARB.	S & MO	aalid f	eacmor	d, ts,		MOLLU sligh and s	SCdu tly wo pine f	ll to rn, wa rugmen	UARTZI froster ole sp ts, X- bangul	i, wor icules CARB	n frug , ZCHI -dull,	ments, NOID: frost	ALCY relati	CKARIA vely f	Ndul nesh p	l. lata		<u>250-125</u>
	20	YELLOW: word fr dull, s X-CARB. shaped.	açment lightl dul:	s; sam y wann	o rela Efrace	thyely entsi	ifresh WORM T	, angu BCEs	lar fr erouli	agment difeac	s, BRY cents.	0Z3A			worn, dull	SCdu Whole	ll to spicu sted,	ARTZIT frosted les, SI worn fi	d, war PONGE-	n frag -clear	uents. 'saicu'	ALCYO la fra	NARIAN oments	dull - X-GAI	, ofte RS	n	125-62,5
			<u>/</u> &								, –		N T	YPE	S (%	,			1 / 1/5 Pro 1/5								
7	4000-2	2000	56.4				12.ຮ							23.1					5.1		39			100	0	11.61	
FRACTIONS (M)	2000-	1000	51.1	0.5		0.9	23.7	0.2	2.3					5.2	0.5				4.9	0.7	443		443	100	Ü	9.59	
NO	1000-	500	57.5	1.3		1.0	21.5	1.3	1.0					7.4	3.5				5.5		511		511	130	0	22.17	
3ACT	500	-250	47.4	3,4		3.1	24.1	0.9	5.3			0.6	4.0	3.1	6.2				1.9		323	3	326	99.1	0.9	35.51	
	250	-125	42.5	2.2		6.0	23.7	1.1	3,3			0.3	21.2	1.1	2.2				1.1		367	77	444	82.7	17.3	16.31	
SIZE	125-		35.1	0.9			27.4	1.5	1.8	0.6		7.1	24.7					0.9			350	5 8	394	85.3	14.7	1.06	
	Σ % >	62.5	81.51	1.99		1.62	22.00	0.85	2.9/	0.01		0.41	4.52	6.51	3.55			0.33	3.33	0.08	1819	138	1957	92.9	7.1	3,45	< 62 M

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAMPL	E:15	1-4-1								D!	EPTI	નઃ										_	28			-
WHOLE	SAMPL	E DE	ESCR	RIPTI	ION:			·		0175	P- P- 1		~			<u>-</u>		-		LON	1GIT	UDE	<u>84</u>	18 25	·	- -
										SIZE			ON F) <u> </u>	KIP	HON	<u>s_</u>									
	4000-2000	norus te	38. 34	rozoa-	-dull,	MOLLUSI Worn	0duli fraguer	l, pit nts, X	ted, w -CARB.	orn, fi dull	ragment , worn	ts;		pitto dull CORAL	id frag f r agmu	oments ents,/ ⊒11, sl	, <i>HADIN</i> ALCYONA	ÆDA¢ NRIAN	NATE SAN dull, wo dull, s fragmen	ern pl Hight	ate fr ly wor	agment n, who	ts, ERY ole spi	(020A cules,		500-250
	YELLOW pitted ECHINO fragme	Iúrei	bred, N Bullive	worn f ly fre	ragmen shipla	ts, AMA	LIMEDA- spine	dull fragm	, worn	plate SRYOZO	fragns 4dull	1		frost	ted, pi	itted, ightly	worn t	ragmer whole	nELLY CA nts, BRY spicule n, suban	'OZGA- :5, X-	-dull CARB	fragre dull	ents, A to fro	KLCYONA	to RIAN	250-125
() () () () () () () () () ()	VELLO fragna M.D.VVC relati	ich na/ nts; sc DAdul vely fr	me dul il, Waπ	il, 266 no, și	ule on tited p	ail sna Pate fr	ells, (ragment	lRYCZ9/ Ls, EC⊟	Adul HINOID	l, frag most	yments. Ly	1		frost spict dull	ed, wa Lues, s	orn fra Jose fr Osted.	igments ragment	., ALCY .s, Sid	HELLY CA YOMARIAN DNGEcl Nts, QUA	l−−dul ear,	l, sli spical	ghtly e frac	worn,	whole X-CAR		125-62.5
										_	GRA	IN 7	YPE	S (%	s) ²											
		<u> </u>							STI OF				TO WEST			Skirk!		The State of the S		TROUT STANTE			(N) (N)	ALTE NO		
	00-2000	85.5				8.1							4.8	ı				1.6		62			100	Û	9.59	
200	0001-00	59.6	0.5		4.0	22.2		1.9					7.1		0.8	0,5	-	3.4		379		379	}	0		
SN 101	00-500		Ì	<u> </u>	1	-	-	 -		 		2 7			0.5	 		-	-			 	 	-	18.66	
E E	00-250	41.4	 		 	25.9		2.6	-	 			11:0	0.3		0.3		7.8		382		382	100	0	26.49	
RA		40.5	1.8	0.3	7,1	27.5	0.3	2.1		0.6	0.3	5.9	6.2	4.1		ļ		3.3		338		338	100	0	24.02	
SIZE FRACTIONS (AL)	250-125	45.6	1.3	1.0	1.6	38.0	0.6	2.3		<u> </u>	1.5	3.9	1:.2	0.3			0.6			311	14	325	95.7	4.3	10.82	
ZIS 12	25-62.5	34.3	1.8		0.6	40.3		2.1			5.7	13.4					1.8			335	15	350	95.7	4.3	2.58	
Σ, %	6 > 62.5	1000	1 50			35 33	0.14	2.0		0.15	0.03	2 10	7 22	1, 20	0.16	0.10	0.13	2 00		1907	20	1925	02.4	1		1621

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SA	MPLE:_	247-	8-1								DE	EPTI	d:			***************************************	K			<u> </u>	LA	ΓΙΤυ	DE:_	28			-
WH	DLE SAM	IPLE	DE	SCR	IPTI	ON:_											•				LON	VGIT	UDE	34	15 4	0	- -
											SIZE	FRA	CTIC	<u>ON D</u>	ESC	RIP.	TION	<u>s_</u>									
	00 8	hrism 61 rn frug 11 frag regular	ient tent	s; fex s, X-(<i>ier r</i> el IAKB,	ative	ly fres	in, and	jular i	ragner	its, Bi	RYOZOA-	1		traga	ents; spic and	GRAY Si some c ules, i chipped	iull, ρ 3. F0%A	itted Mrel	fragme	nts, A	LCYONA h and	ARIAN whole:	slight	ly wor dull	orn n,	500-250
	00 128	vrica 6 ugivass mpulid . d bored	; fe ragi	w reli ments,	itivaly LERYOZ	r fresh 10Adi	i, aig: Al fo	dar tr Umberts	nogurent :, X−0A	s, Wor RBc	an Tinga				frost dull.	ed wo slig	GRAY, SP rn frag htly wo ents, (µments; ∵rn, wh	fewer ole sp	r fresh ∷icules	, angu .X-CA	lar fr RBd	ragment ull to	s, ALC frost	YOUART	AN	250-125
	00 38	Et la 19a osted, 7 70ZOA0 11 to fr	ario. Mari	iragr , frac	ento; Mants,	1926 t 1987	Alutin TOSE	cly fr sampul	603 30	cullan.	fracus	ntc	ıd		MOLLU worn, frage	SCd whol ents, Sd	SRAY, (ull to e spice ECHING ull to ded.	froste Hes, S HD-~re	d, wor PONGE- lative	n frag -clear lv fra	ments, , long sh bla	ALCYO , rod- te and	NARIA: snaped Espina	idull Lspicu ⊢frace	, slig le onts		125-62.5
		4	10								, -		IN T	,	S (%	, 	31.4×/		RIA STOR								
4	4000-20	oo ₁	.2				22.5	<u> </u>	1.2					7.5	3.8				3.8		63		80	100	đ	9.41	
3	2000-10	oo ₅₁	.3			0.5	30.4		1.3					7.9	0.3				7.9	0.3	316		316	100	0	16.55	
ONS	1000-50	00 30	.7	2.0		1.0	18.5	0.3	1.3			0,6		6.2			1		S.4		308		308		0	28.23	
FRACTIONS (41)	500-2	<u> </u>	.2	4.3	-	i —		1 313			1 7 7	 	1, 5										 	 			
FRI	250-1	05				i	23.7	<u> </u>	2.4		0.3	İ		2.8			-		0,6		327		327	100	0	34.61	
SIZE		22	ڌ.	1.2	6.5	1.2	33.5	<u> </u>	3.2			0.3	21.5	2.0	0.9		 	0.3			343	1	344	39.7	0.3	5.79	
	125-62 	· L/	.2	1.5	0.3		42.5	0.3	5.3	0.3		5.3	7.0	0.3							541	29	370	92.2	7.8	0.54	
	$\Sigma \% > 62$. 5 ₅₃	:ئ.	2.25	0.03	1.35	26.68	د.5.0	1.82	tr	0.11	0.34	3.01	5.10	1.65			0.02	4.47	0.05	1715	30	1745	98.3	1.7	4.81	< 62 /

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT. %) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

SAN	APLE:_	251	-A-1							D	EPT	-H:								TITU NGIT					
WHO	LE SA	MPLE	DE	SCR	IPTIC	ON:_			 	SIZE	Fr	RACT	ON	DESC	RIPT	TONS	3_								
	Q	VERY LI bored f shaped	ragmen	ts, of	LL, SH ten en	ELLY Coruste	ARBGNA d, X-C	TE SAN ARB	S: MO: dull, b	LUSCdul bored, irro	, pit egular	ted, ly-		frost BRY0Z	ed, pi OAdu	itted f Ill fra	ragmen	ts, COF , X-CAF	CARSONATE S RALGdul RBdull	, worm	, rod-s	haped	fragme	nts,	500-250
	000	YCLLOW! worn, f worn fr bored,	nagment agment	ts, of s, WOR	iten pi M TubE	tted, sorp	bored wild f	E SAMB and en ragmen	: MGL! crusted ts, X-(.USCmost 1, BRYOZOA CARBdul	y dul -aull , wor	l,		fraga ECHIN	ients, iOIDr	ALCYON elativ	ARIAN- rely fr	-aull, esh spi	ATE SAND: slightly ine and plats, QUARTZ	achn, wi	hole sp gments,	icules X-CAR	; B		250-125
	000-200	finegress and who	is, <i>en</i> Ne, ma	nimist ny wit	idull ∴h c hip	plate pad ec	- fragr Iges, C	ents. GRALG.	B. F01∉ dull	ussodull Mrelati , worn, ro ped fragina	oly f J-shap	resh		Worn SPONG	tiradino Elor	ints, A ig and	LCYONA short	RIANc spicule	ATE SAND: dull, sligh e fragment, subangul	itly wo i, X-CA	rn, who RS∸du	le spi 11 to	aules,		125-62,5
			<u> </u>								/		,	ES (%						git /S					
7	4000-2	2000	77.1				15.5		2.3				0.	1	0.8	1		3.0	13	ì	151	100	C	15.51	
3 (4	2000-	1000	81.3			0,9	23.5		1.5				5.	3	0.9			6.3	33	5	356	100	0	33.62	
FRACTIONS (A)	1000-	500	61.4	2.5		4.4	23.4		1.5				2.	4 2.0				2.0	34	2	342	100	0	25.32	
RACT	500 ⁻	-250	1.54	2.2	0.3	4.7	19.3		1.9	0.	3	3.	2 5.	12.7				1.9	31	5	316	190	o	15,44	
	250	-125	40.7	2.3	0.3	3,4	20,6		4.3	0.	3 0.	6 11.	5 5.	4 2.0				0.6	34	3 3	352	99.1	0.9	4.98	
SIZE	125-	62.5	32.3	2.2			38.6	0.3	1.9	0.	3 4.	.8 16.	3 1.	0 1.0			1.3		31	3 16	329	95.1	4.9	0.51	
	Σ%>	62.5	60.78	1.23	0.07	2.35	21.83	tr	1,85	0.4	07 O.	00 1.	17 3.8	35 2.67	0.45		0.01	3.58	17:	.7 1 ⁻	1800	98.9	1.1	3.17	< 62 4

⁽¹⁾ SIEVE SIZE DISTRIBUTION DATA (WT.%) PROVIDED BY L. DOYLE

⁽²⁾ PERCENT OF TOTAL CARBONATE

APPENDIX II

Summary of

Carbonate Sand Constituent Composition

CONSTITUENT PERCENTAGE IN CARBONATE SAND FRACTION

		/	J. S. A.				C. S.				10 A		SAR SECTION	SI OF				SEL PE		STREET	
	•	\\$\dots	S.				%			<u> </u>	18 A	18		1 1 1 1 1 1 1 1 1 1	90			- 1			
2	1014	68.08	1.60	•		11.41	0.23	5.73	1.50	-	0.41	\dashv	0.04	극	-	\dashv	10.75	0.10		51.79	1.85
2	102A	54.56	9.90	•		17.89	3.04	9.54	0.57	-	╣	0.42	0.60	-		-	3.50	0.32		28.28	3.69
2	103A	46.52	3.49	tr		25.94		2.38	0.25	0.11	"	tr	2.04	0.04		┵	0.43	0.18		71.56	3.70
2	ŀ	31.83	8.39	0.87	9.87	28.01		2.15	0.19	0.03	"	0.05	2.69	***9		-	0.23	1.13	_	95.15	4.45.
2	105A	20.91		8.53	-	47.22	0.04	1.65	-	0.25	0.05	0.06	2.87	3.11	0.31	_	1.12		-	94.59	5.06
				20.96		18.84	0.35	5.56	-	3.02	0.12	0.12	2.33	0.51	0.15	ᅴ	0.44	0.87	-	66.84	
			17.79	0.07		24.74	2.32	7.86	0.75	0.12	0.47	1.13	0.14	-	\dashv	-	0.17	0.02	_	89.15	\vdash
	2208A		19.50	0.50	\vdash	27.61	2.49	6.95		0.36		0.83	0.03	-	-		0.08		_	36.11	Н
	2209A	43.77	25.28	1.47	0.52	18.08	2.39	5.14	\dashv	0.79	1.38	0.27	0.45	-		-	0.43	•	<u> </u>	35.64	1.74
	2210A	50 (2	,							0.07	0.00		2 82	6.97	0.31	-	0.17	1.12	-	k	
	2211A 2212A	24.31	3.54	33.82		28.58 17.50	1.65	2.35 5.01	-	3.91	0.05	•	0.64	0.04	0.31	-	0.17	0+16		52.26	\Box
				_	-					1.21		0.10	0.89	-		-	0.05				
	2313A :	28.10	9.95	37.04	<u> </u>	15.64	0.99	6.01				0.10	0.03				0.07	0.02	H	11.50	58.29
	2315A		-	\vdash								_	-						-	\vdash	
	2316A	47.01	16.61	1.24	1.17	20.82	1.36	5.01	0.45	1.26	0.87	0.13	2.30	0.26	<u> </u>		1.30	0.11	一	87.81	11.85
	2317A	15.11	-	0.43	├	21.72	3.50	10.01	0.11	0.43	0.55	0.39	0.65	-			0.34	0.11		59.92	26.83
;	2318A	36.54	26.64	tr	-	28.29	6.55	1.32	-	0.44	-	0.06	0.50	-			0.11	0.06	Τ	8.14	1.68
:	2319A	38.10	9.14	0.01	0.18	40.73	4.85	4.02	-	0.30	-	2.23	0.34	-		•	-	0.10	4 -	38.53	2.45
	2420A	50.62	3.01	0.03	0.11	33.80	8.35	1.75	-	0.16	-	1.84	0.31		-		-	0.0	3 -	54.17	2.49
	2421A	49.59	3.65		0.27	36.24	3.19	4.84	0.75	0.13	0.27	0.40	0.02				0.6			52.29	10.33
	2422A	53.%	4.07	0.14	-	17.92	8.55	5.37	0.35	. •	-	10.24	4.95		1.28	-	1.6	0.9	4	50.85	12.12
	2423A	75.22	1.69	0.09	-	7.17	10.03	1.73	0.04	0.29	0.01	0.01	1.74	-	-	Ŀ	1.30	0.7	2 -	76.31	16.83
	2424A	55.51	7.2	0.1	0.0	25.42	6.21	3.11	0.44	0.44	tr	tr	0.30		-	-	0.8	0.0	, ,	13.5	4.56
	2425A	63.40	8.2	0.4	0.4	16.86	1.20	2.64	Ŀ	0.07	tr	0.0	4.20	0+7			0.7	1.4		12.87	1.95
Ç.	2426A	49.10	10.5	3.6	-	21.77	2.78	4.8	Ŀ	0.41	0.0	0.0	1.19			<u>.</u>	0.3	4 0.3	,4	94.8	4.94
	2427A	15.31	11.7	3 53.5	3 .	14.65	1.57	2.48	0.2	0.0	-	-	0.4	-			0.0	,	<u> </u>	38.2	61.65
	2528A	58.47	3.7	0.3	2 0.0	1 18.73	2.2	0.81	Ŀ	0.11	0.0	-	3.4	4.1	0.3	Ŀ	5.0	9 2.0	id -	71.5	5.33
•	2529A	33.45	5.1	0.0	۶ -	41.9	2.0	0.12	Ŀ	tr	tr	tr	2.3	13.7	·		0.5	d 0.4	<u> </u>	85.2	1.35
	2530 A	29.63	5.1	9 0.2	9 -	24.9	6 19.79	0.84		0.0	tr	0.0	1 2.3	15.1		·	0.1	6 1.	× -	87.5	1.47
	25 31 A	30.75	8.4	5 0.0	, .	38.14	5.02	1.10	6 -	0.0	tr	tr	1.7	12.4	3 0.1	<u>.</u>	0.0	1 2.0)ş .	93.6	1 2.22
	2532A	39.65	5 11.4	2 4.1	7 -	24.5	6.17	2.9	4 -	0.13	0.10	0.1	3 3.0	3.9	0.1	2 -	0.0	3.:	54 -	33.9	0 7.88
		1	1				_			_	_	_	_	_	_	-	_		_		

							_		,	-	SRAI		YPES		<u>'</u>	. ,	,	,	,	,	,	
2506 257	•	/.	JISC						MOID	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ALCO C	KÉ /	ONAGRAN	Olona		8 2/5		NO ST	* /3	SACELAN		
2506 257	ı	\\$ ⁰	18	\$ \$\$\$\text{\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$}\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitit{\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\texi\\$}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	\$\int\{\partial}{2}\tag{3}	AS C		\$ 60	/\vec{v}	<u> </u>	78		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	100	200	<u> </u>	14		<u> </u>	<u>ک</u> ک		7
2506 277, 17.46 27.50	2534A	41.55	13.66	0.10	0.17	33.14	0.26	1.56		0.03	tr	tr	2.45	5.07		-	0.05	1.96	-	93.77	4.92	
28407 18.71 28.92 1.72 1.73 2.72 5.42 5.42 5.74 5.75 7.70 1.70	2535A	22.77	17.46	27.90	-	20.23	3.46	6.51	-	0.92	0.32	0.42	-		-	-	tr			21.67	77.41	
2538 10.53 0.04 1.10 0 .7 0 15.65 0.0 0 1.0 0 15.05 0.0 0 1.	2536A	20.72	19.51	45.07	·	8.44	2.09	3.93	-	-	-	-	0.02			-	0.19	0.05		20.63	81.24	
2648 37.92 11.00 0.07 0. 15.85 4.08 5.72 0.00 0.01 0.02 0.03 0.04 0.07 0.00 0.05 0.0 0.01 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03	2637A	18.71	28.97	1.73	-	32.37	5.42	8.74	-	0.14	0.22	0.07	-	-	-	-	3,54	0.07	_	13.85	63.10	
26404 73.72 5.66 0.03 - 10.28 5.35 2.16 0.01 0.16 - 2. 2. 2. 4. 0.0 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.05 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17	2638A	10.55	40.48	1.10	-	6.61	2.47	6.55		0.02	-	0.07	0.01	-	-	-	32.20	0.07	\Box	15.00	78.01	
2641A	2639A	57.92	11.60	0.97	-	15.85	4.38	5.72	-	0.59	-	0.05	0.56	-	-	-	2.31	0.05		39.50	ι ³ .56	
2442 70,30 3.88 0.89 7.8 1.8 1.8 1.8 1.8 1.8 1.8 1.4 1.4 1.4 1.8 1.8 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	2640A	73.72	5.66	0.03	-	10.28	5.38	2.14	0.01	0.14	-	-	2.41	-	-	-	0.17	0.07		28.96	1.93	
2644A 21.86 8.80 0.76 7- 51.66 10.95 7- 7.77 1.27 1.76 7- 7.70 1.77 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 7- 7.70 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	2641A	48.53	18.02	1.21	-	19.57	5.77	4.31	0.09	0.17	0.09	0.01	0.17	-	-	-	2.07	-		11.62	3.80	
26444 22.72 19.61 3.72 0.09 46.37 2.23 1.76 - 7.77 1.26 0.09 46.37 2.23 1.76 - 8.78 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2642A	70.30	5.86	0.69	-	13.73	1.90	1.49	-	0.57		tr	4.77	-	-	-	0.69	-		17.41	1.78	
2643A 25.23 13.99 1.10 - 46.26 1.56 1.61 0.01 0.07 0.81 7.87 0.13 1.41 91.09 8.72 047-A-60 64.45 1.56 0.18 - 20.36 0.01 1.99 0.01 0.17 0.15 0.46 5.12 1.28 0.24 -	2643A	21.86	8.30	0.76	-	51.46	10.95	2.68	-	-	-	0.11	1.18	1.79	0.12	-	0.21	0.47		89.33	7.91	
264-A-4 0	2644A	22.72	19.61	3.72	0.09	46.57	2.23	1.70	-		-	tr	0.85	0.65	0.06	-	0.28	1.54		97.79	1.88	
047-4-40	2645A	25.23	13.99	1.10		46.26	1.56	1.61	0.01	-	-	0.02	0.81	7.87	-	-	0.13	1.41		91.09	8.72	
62-A-1 42.33 4.15 - 2.16 9.47 7.77 1.29 - 2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.		一	\vdash	0.18	_	20.36	0.01	1.96	0.01	0.17	0.15	0.84	5.12	1.28	0.24		tr	3.09		96.77	2.86	
64-B-1 45.22 10.74 0.01 0.25 26.46 14.08 1.15 tr 0.02 tr tr 1.59 tr 0.06 2.36 tr 0.06 0.15 146-B-15 38.96 0.96 0.15 0.07 24.99 0.85 1.15 tr 0.06 0.15 0.06 0.15 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1		-		-	2.16	39.47	7.77	1.29	-	-	tr	tr	2.30	0.19	-	-	tr	0.33		84.29	14.99	
146-B-15		<u> </u>					14.08	1.13	tr	0.02	tr	tr	1.91	-	-	-	0.01	0.17		96.59	2.63	
147-B-11 51.51		 	 	╁─╴						0.06	0.12	2.11	2.08	2.36	-	-	0.02	5.55		94.08	3,94	
151-A-1 49.91 1.52 0.19 5.14 25.22 0.15 2.00 - 0.15 0.41 2.45 7.23 1.20 0.16 0.19 0.12 3.99 91.00 8.04 247-B-1 53.64 2.25 0.03 1.35 26.08 0.08 1.82 tr 0.11 0.34 3.01 5.10 1.65 - 0.0 0.02 4.47 95.07 4.81 251-A-1 60.78 1.23 0.07 2.39 21.83 tr 1.85 - 0.07 0.05 1.17 3.85 2.67 0.45 - 0.02 4.47 95.07 4.81 251-A-1 60.78 1.23 12.02 0.23 - 45.58 10.66 0.91 0.23 tr 0.23 tr 0.23 tr 0.24 0.24 0.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1		<u> </u>	-	╫	 	-				 	 	4.82	6.51	3.55		-	0.33	3.33			Н	
247-B-1 53.64 2.25 0.03 1.35 26.08 0.08 1.82 tr 0.11 0.34 3.01 5.10 1.65 - 0.00 4.47 95.07 4.81 251-A-1 60.78 1.23 0.07 2.39 21.83 tr 1.85 - 0.07 0.05 1.17 3.85 2.67 0.45 - 3.58 0.01 96.62 3.17 1.47 1.23 12.02 0.23 - 45.58 10.66 0.91 0.23 tr 0.07 0.05 1.17 3.85 2.67 0.45 - 12.02 tr 1.41 87.88 1.41 1.23 12.02 0.23 - 45.58 10.66 0.91 0.23 tr 0.07 0.05 1.17 0.14 0.0 0.14 0		-	-	0.19	├─	-	0.15	2.00	-	0.15	0.41	2.43	7.23	1.20	0.16	0.19	0,12	3.99		91.30	8.04	
251-A-1 60.78 1.23 0.07 2.39 21.83 tr 1.85 - 0.07 0.05 1.17 3.85 2.67 0.45 - 3.58 0.01 96.62 3.17 1.87 1.87 1.88 1.28 1.28 1.28 1.28 1.28 1.28 1.28	:	-	-	┼	-	-			tr	-	┼─	 	├	-		_	1	4.47		95.07	4.81	
1A 17.23 12.02 0.23 - 45.58 10.66 0.91 0.23 tr - 0.23 12.92 tr 4.41 87.88 2A 52.05 16.85 0.49 - 4.94 1.39 3.69 - tr - 0.14 - 0.14 10.10 0.21 14.36 79.83 3A 25.31 38.98 2.69 - 10.01 1.93 11.45 0.29 1.06 - 0.19 8.09 tr 10.39 79.14 4A 55.32 32.97 1.44 - 23.06 5.77 14.95 - tr tr - 0.32 tr 6.49 - 5.55 97.41 5A 29.19 33.84 1.68 - 13.47 1.44 11.31 tr 1.28 - 0.32 tr 6.49 - 12.47 74.54 6A 50.02 20.22 1.37 - 7.93 2.20 10.76 0.04 0.78 0.24 6.36 0.08 25.47 37.38 7A 89.27 18.50 1.45 - 6.89 2.18 13.03 0.14 1.67 0.15 6.68 0.04 27.57 29.13 8A 54.00 13.32 1.30 - 6.19 4.17 15.84 0.07 0.43 0.36 - 0.22 4.10 tr 13.89 10.02 9A 56.46 13.56 1.85 - 6.71 4.03 10.07 0.20 0.34 0.03 0.23 0.17 6.08 0.27 29.79 12.24 10A 52.26 18.50 2.51 - 8.94 2.14 9.93 0.39 1.67 0.05 - 1.20 2.38 0.03 38.26 14.13 11A 55.98 4.79 0.39 - 33.60 2.45 0.91 0.12 - tr 1.61 0.15 - 33.00 2.30		-	-	╁	-	-		-	-	╁	┼─	-	1	-	0.45	_	3.58	0.01				
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2A 52.05 16.85 0.49 - 4.94 1.39 3.69 - tr - 0.14 - 0.14 - 10.10 0.21 14.36 79.83 3A 25.31 38.98 2.69 - 10.01 1.93 11.45 0.29 1.06 - 0.19 8.09 tr 10.39 79.14 4A 15.32 32.97 1.44 - 23.06 5.77 14.95 - tr 6.49 - 5.55 87.41 5A 29.19 33.84 1.68 - 13.47 1.44 11.31 tr 1.28 - 0.32 tr 7.46 - 12.47 74.54 6A 50.02 20.22 1.37 - 7.93 2.20 10.76 0.04 0.78 0.24 6.36 0.08 25.47 37.38 7A 49.27 18.50 1.45 - 6.89 2.18 13.03 0.14 1.67 0.15 6.68 0.04 27.57 29.13 8A 34.00 13.32 1.30 - 6.19 4.17 15.84 0.07 0.43 0.36 - 0.22 4.10 tr 13.89 10.02 9A 56.46 13.56 1.85 - 6.71 4.03 10.07 0.20 0.34 0.03 0.23 0.17 6.08 0.27 29.79 12.24 10A 52.26 18.50 2.51 - 8.94 2.14 9.93 0.39 1.67 0.05 - 1.20 2.38 0.03 38.26 14.13 11A 55.98 4.79 0.39 - 33.60 2.45 0.91 0.12 - tr - 1.61 0.15 - 33.00 2.30				-	 		10 (0.01	0.22	-	-	0.22	-	├-	 		12 92			A 41	97.00	
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8A 54.00 13.32 1.30 - 6.19 4.17 15.84 0.07 0.43 0.36 - 0.22 4.10 tr 13.89 10.02 9A 56.46 13.56 1.85 - 6.71 4.03 10.07 0.20 0.34 0.03 0.23 0.17 6.08 0.27 29.79 12.24 10A 52.26 18.50 2.51 - 8.94 2.14 9.93 0.39 1.67 0.05 - 1.20 2.38 0.03 38.26 14.13 11A 55.98 4.79 0.39 - 33.60 2.45 0.91 0.12 - tr - 1.61 0.15 - 33.00 2.30		49.27	18.50	1.45	1	6.89	2.18	13.03	0.14	1.6	0.15	-	-	<u> </u> -	-	<u> </u>	6.68	0.04	 	┼	\vdash	
10A 52.26 18.50 2.51 - 8.94 2.14 9.93 0.39 1.67 0.05 - 1.20 2.38 0.03 38.26 14.13 11A 55.98 4.79 0.39 - 33.60 2.45 0.91 0.12 - tr - 1.61 0.15 - 33.00 2.30		54.00	13.32	1.30	<u> </u>	6.19	4.17	15.84	0.07	0.4	0.36	-	0.22	-	+	 .	4.10	tr	1	13.89	10.02	
11A 55.98 4.79 0.39 - 33.60 2.45 0.91 0.12 - tr - 1.61 0.15 - 33.00 2.30	94	56.46	13.56	1.85	-	6.71	4.03	10.07	0.20	0.34	0.03	0.23	0.17	1	<u> -</u>	<u> </u>	6.08	0.27	\	29.7	12.24	l
	10A	52.26	18.50	2,51	1	8.94	2.14	9.93	0.39	1.6	0.05	<u> </u>	1.20	-	Ŀ	<u> </u>	2.38	0.03	1_	38.20	14.13	
12A 78.12 1.29 0.14 - 12.59 5.47 0.59 0.11 0.05 - tr 1.37 0.27 - 37.11 3.63	11A	55.98	4.79	0.39	, _	33.60	2.45	0.91	0.12	2 -	tr	<u> </u>	1.61	1	-	-	0.15	-		33.0	2.30	
	12A	78.12	1.29	0.14		12.59	5.47	0.59	0.11	0.0	5 -	tr	1.37		-	-	0.27	-		37.1	3.63	

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	Ŀ	D 18	€					34/4		\$ <u></u>	ORES	\$ \	ALCO A		SPAL /		RACIA	3/3	5/	PROT	Š
13A	27.12	6.84	tr	ļ.	47.9		3.97	0.3			<u> </u>	0.3		<u>.</u>	Ŀ	4.96			9.07	I	
144	32.24	11.17	0.3	<u> -</u>	42.3	3.69	6.21	Ŀ	0.67		tr	0.5	<u> </u>	<u> </u>	ŀ	2.35	0.50		11.91	2.11	L
15A	19.13	18.03	4.0	<u> </u>	36.7	12.51	7.41	0.24	0.85	_	0.06	0.2	4	<u> </u> -	Ŀ	0.79	_		16.48	3.42	
16A	15.05	7.02	0.3	1-	64.9	3.88	6.09	Ŀ	1.02	<u>.</u>	tr	0.2	<u> </u>	Ŀ	<u> </u>	1.38			10.83	1.91	١
17A	36.03	24.02	0.86	·	26.22	2.00	1.88	tr	0.16	0.01	0.07	6.89	1.10		<u> </u>	0.03	0.73		90.02	3.73	1
18 A	29.25	16.00	3.34	ŀ	36.68	1.42	4.88	0.02	0.22	tr	tr	4.56	0.99	0.15	Ŀ	0.41	1.86	0.22	92.14	7.18	
194	14.69	13.12	6.10	ŀ	53.58	3.36	2.84	tr	0.13	0.01	tr	2.80	1.60	0.08		0.49	1.20		89.81	9.08	
20A	13.84	12.68	4.55	1	55.59	5.99	2.44	tr	0.14	0.02	0.02	1.42	2.15	Ŀ	·	0.53	0.63		88.90	5.69	1
21A	44.18	6.60	3.57	0.08	16.80	15.28	3.22	0.19	0.44	0.05	0.42	4.61	4.04	<u> -</u>	Ŀ	0.52	<u>.</u>		63.60	32.76	
22A	41.70	13.39	2.01	ŀ	31.94	4.46	0.64	<u> </u>	0.23	tr	0.07	2.26	3.30	<u> </u>	Ŀ	<u> -</u>	_		81.03	18.87	
2 3A	52.93	11.18	3.05	ŀ	10.70	3.28	9.01	0.58	1.96	0.24	Ŀ	0.05	0.13	<u>-</u>	<u> </u> -	6.89	Ŀ		37.75	52.93	
24A	60.16	7.89	3.07	ŀ	4.62	2.15	5.18	2.91	2.23	0.96	0.72	tr	<u> </u>	<u> </u>	Ŀ	10.12	Ŀ		25.10	72.86	
25A	56.86	9.75	10.30	ŀ	7.46	2.40	5.11	0.96	0.39	0.21	1.59	0.83	<u> </u> -	<u> </u>	Ŀ	4.14	-		38.37	59.68	
26A	58.43	9.83	2.19	ŀ	14.56	8.21	4.00	0.07	0.05	-	0.18	1.86	0.62	-	Ŀ	-	-		54,81	25.26	
27A	59.63	9.56	6.16	<u> </u>	8.61	3.08	7.43	2.26	1.80	0.85	0.59	-	-		-	0.03	-		30.55	66.40	
28A	55.70		0.53	0.11	18.28	1.33	0.64	-	-	tr	-	3.66	3.17	•	-	0.10			89.55	3.23	
29A	56.42		3.91	Ė	11.08	6.87	7.40	-	0.32	0.21	0.40	1.07	0.89	•	-	0.16	-		68.25	18.46	
30A	58.01		3.61	<u> </u>	14.08	4.17	4.05	-	0.28	0.15	0.08	3.41	1.71	-	-	tr	-		82.34	4.10	
31A	39.14	13.75	0.38	<u> </u>	31,10	5.12	0.58	0.11	-	0.01	-	1.91	7.88	-	· -	0.02	•		90.00	4.48	
32A																			_		
33A	37.52	5,50	0.55	-	22.14	11.16	1.32	-	0.07	tr	0.03	2.75	4.63	-	-	14.33	-		90.97	5420	
344	39.05	4.31	0.08		37.18	1.76	0.37	tr	_	-	tr		8.47	-	-	0.53	-		89.01	1.93	
	38.41		0.10		31.76		1.10		0.10	tr'	tr		12.77	-	•	-	-		80.46	2.63	
	28.47 48.14	7.93 9.40	0.38		Н	21.68		0.20	•	tr	0.03	\dashv	12.67	-	-	0.28	\dashv		6 8. 11	2.47	
	54.60	8.25	1.32		18.31 15.47	3.10 4.70	3.48	0.31	0.11	0.01	0.04		14.53	-	<u>-</u>	0.12	-	_	73.91		
	49.41	6.81	0.40		24.98		1.47	0.31	0.32	0.03	0.31	4.45			-	0.67			70.66	_	
	30.68	5.53	tr		45.15	8.64	0.96	0.03		tr	0.05	3.29			-	0.10	-	_	39.51	\dashv	:
	49.06	-+	0.68		25.20	-	4.20		1.03	0.11		1.03			-	0.28		_	54.04	_	
	76.44		0.68		4.19	-		0.38	0.44	0.72	0.55	3.54	0.30		_	0.33	0.06		28.08		
43A		-						1					50		_	V.25	¥va	\dashv	70.91	23.08	
	71.28	3.27	0.10	1.00	11.01	7.39	0.36		-	0.02	0.02	3.32	1.86			0.28	0.09	┪	94.52		
45A	66.21	7.73	1.89	0.80	9.29	-	1.81	0.81	0.57	0.09	0.07	0.41	-	_	-	1.18	-		3.61		!
46A	68.18	11.34	0.21	0.61	9.18		2.49	4.06	0.79	0.29	0.30	0.96	0.36		_	0.37	_		5.91		
		ـــــــا						1	1										1		

GRA	IN	TY	PES	(%)

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	/*	Si SE		ed a	WE'S	A CONTRACTOR		HE OF	() () () () () () () () () ()	RECO	SHE'S	ONE	A COLORA		RALL SE	LE SE LE LE LE LE LE LE LE LE LE LE LE LE LE	PAC A	\$ 1/5°	SETREE	HE TO
47 A		Γ^-	0.02	1.09	11.77	0.04	2.33		0.07	0.33	1.74	7.28	9.99	-	-	0.16	1.96	1	96.91	2.95
48A	68.58	6.09	1.06	0.22	7.05	5.28	3.83	0.09	1.63	2.27	2.94	0.69	0.17	-	-	0.10	-		57.79	36.56
49A																				
50A	65.41	7.43	0.34	1.04	8.44	9.61	1.96		0.10	0.10	0.01	4.68	0.77	,	-	0.11	-		82.31	7.33
51A																				
, 52A	64.60	9.64	2.55	0.82	9.00	4.23	4.54	-	2.61	1.40	-	0.49	0.02	·	-		•		51.32	47.16
53A	73.12	7.63	0.09	0.46	8.62	4.88	1.86	0.04	0.34	0.02	0.01	2.50	0.39	-		0.04	-		82.16	14.61
54A																				
· 55A	40.38	6.22	4.45	2.87	22.27	4.03	2.32	13.63	0.63	1.71	٠.	0.82	0.53	0.05		0.08	-		37.92	61.08
56A	68.20	8.67	1.16	1.12	7.05	6.49	1.94	1.00	0.28	0.73	-	0.36			-	3.00	-		57.74	37.20
57A	60.86	12.00	1.70	0.98	14.17	4.39	1.86	1.23	0.14	0.63	0.17	0,19	_	Ŀ	·	1.67			64.01	30.99
58A			_																	
· 59A												,								
. 6QA	62.96	16.62	1.02	1.99	10.49	2.88	2.59	0.26	0.59	0.28	0.13	0.15	-	-	-	0.04	<u> </u>	ļ	52,.82	37.96
61A	65.63	15.15	0.49	0.45	10.25	4.34	1.72	0.10	0.54	0.70	0.14	0.05	-	-	-	0.44	-		57.43	37.06
62A	66.27	3.73	tr	1.10	13.15	12.40	1.27	0.04	-	tr		1.49	0.38	-	-	0.17	·		93.15	5.91
63/	64.76	13.38	0.86	0.79	10.83	2.57	1.97	0.39	1.63	0.69	0.69	0.10	-	·	-	1.33	-		40.51	53.92
64/	51.52	19.22	0.95	1.41	14.33	6.25	2.80	1.02	0.86	0.51	0.42	0.14	•	-	-	0.55	Ŀ		43.18	49.84
65/	62.43	14.09	0.65	1.89	11.41	5.26	2.14	-	1.19	0.34	0.08	0.02	-	-	-	-	-		47.71	42.31

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									CONS		nt pei GRA	IN T	YPE	S (%		CTION						
			Jest	SOUTH A			N. V.		iton	1	SRIEGE	1/4	TON BE	AN ORN	No.		1238	RECIPE		STREET	r l	igense House
		1	STAR STAR						HE OF	\ \ \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5 ^R / 68	OHGE N	30/4	ar Color		SPART 1		Pho NO	3/3	\$ 1	HER CONT	Edding!
	2101A	38.68	0.91	Ŀ	0.09	6.48	0.12	3.26	0.86		0.23	-	0.02	-	-	-	6.11	i		57.09	8.85	
	2102A	1 6. 03	9.90	_	Ŀ	5.26	0.89	2.70	0.17		-	0.12	0.18	-	-	-	1.03	0.09	-	29.38	3.69	
	210 3A	34.69	2.61	tr	-	19.34	13.91	1.77	0.19	0.08	tr	tr	1.52	0.03	-	-	0.32	0.14		74 .6 0	3.71	
	2104A	31.79	8.37	0.87	9.85	27.97	10.04	2.15	0.19	0.05	tr	0.05	2.69	4.45	•	-	0.23	1.14	-	99.84	4.45	
	2105A	20.90	13.85	8.53		47.19	0.04	1.65	•	0.25	0.05	0.06	2.87	3.11	-	-	1.12	0.31	-	99.93	5.06	
	2106A	35.69	11.02	20.96	<u> </u>	18.84	0.35	5.56	-	3.02	0.12	0.12	2.33	0.51	0.15		0.45	0.87	-	99.50	12.99	
	2207A	27.43	11.44	0.04	1.13	15.92	1.49	5.06	0.48	0.08	0.30	0.73	0.09	-	-	-	0.11	0.01	•	64.32	10.57	
	2208A	35.71	17.28	0.44	0.83	24.47	2.21	6.41	-	0.32	-	0.74	0.02		•	-	0.07	0.27	-	88.77	58.89	
	2209A	41.68	24.07	1,40	0.50	17.21	2.28	4.89	-	0.75	1.32	0.26	0.43		-	-	0.41	•	0.02	95.22	41.54	
	2210A																					
	2211A	50.50	3.52	0.30	1.17	28.48	1.77	2.34	-	0.07	0.05	-	2.92	6.94	0.31	•	0.17	1.12	•	99.68	13.03	
	2212A	24.25	12.83	33.73	_	17.46	1.65	5.00	-	3.90	-	-	0.64	0.04	-	•	0.11	0.16	•	99.77	43.58	
	2313A	28.05	9.93	36.95	-	15.61	0.99	6.00	-	1.21	-	0.10	0.89	-	٠	,	0.05	0.02	-	99.82	58.29	
	2314A																			. •		
	2315A						,															
	2316A	28.41	10.08	0.75	0.71	12.58	0.82	3.03	0.27	0.77	0.53	0.08	1.39	0.16		•	0.07	0.79	-	60.44	11.85	
	2317A	43.12	15.51	0.41	0.38	20.76	3.35	9.57	0.11	0.41	0.53	0.37	0.63	-	-	,	0.33	0.11	•	95.57	26.83	
	2318A	6.77	4.84	tr	-	5.24	1.21	0.24	·	0.08	-	0.01	0.09	-	-	·	0.02	0.02	-	18.52	1.68	
	2419A	15.05	3.61	tr	0.07	16.10	1.92	1.59	-	0.10	-	0.88	0.13	-	-		٠	0.06	-	39.51	2.45	
	2420A	33.31	1.98	0.02	0.07	22.24	5.50	1.15	-	0.10	-	1.21	0.21		-	-	-	0.02	-	65.81	2.49	
·.	2421A	28.95	2.13	-	0.16	21.16	1.86	2.82	0.43	0.08	0.16	0.23	0.01	•	-	-	0.38	-	-	58.37	10.33	
	2422A	31.29	2.36	0.08	٠	10.39	4.96	3.11	0.21	•	-	0.14	2.86	-	0.74		0.93	0.56	•	57.63	12.12	
	2423A	69.12	1.55	0.08	-	6.59	9.22	1.59	0.04	0.22	0.01	0.01	1.60	-		•	1.25	.0.66	-	91.93	16.83	
	2424A	7.89	1.03	0.02	0.01	3.61	0.89	0.45	0.06	0.06	tr	tr	0.04	-	-	-	0.12	0.01	-	14.19	4.56	
	2425A	8.29	1.08	0.06	0.06	2.20	0.16	0.35	-	0.01	tr	tr	0.55	0.10	-	•	0.01	0.18	•	13.05	1.95	
	2426A	29.04	6.24	2.17	-	12.88	4.60	2.84	-	0.24	0.02	0.05	0.71	-	-	-	0.20	0.18	-	59.17	4.94	4
£	2427A	15.28	11.71	53.43		14.63	1.56	2.48	0.21	0.05	-	-	0.42	·	-	-	0.05	-	•	99.82	61.65	
	2528A	44.22	2.80	0.24	0.01	14.16	1.60	0.67	-	0.08	0.01	-	2.59	3.13	0.30	-	3.85	1.97	-	75.63	5.33	
	2529A	28.92	4.44	0.04	-	36.27	1.80	0.10	-	tr	tr	tr	2.02	11.92	-	-	0.44	0.52	-	86.47	1.35	•
4:	2530A	26.35	4.61	0.25	•	22.19	17.59	0.76	-	0.06	tr	0.01	2,12	13.44		•	0.14	1.40	٠	88.92	1.47	
	2531A	29.59	8.12	0.07	-	36.65	4.83	1.06	-	0.04	tr	tr	1.67	11.95	0.09	-	0.01	2.01	-	96.09	2.22	
	2532A	36.21	10.43	3.81	•	22.45	5.64	2.70		0.11	0.09	0.12	2.77	3.63	0.11		0.03	3.23	-	91.33	7.88	
	2533A	17.84	11.02	0.53	-	28.19	0.65	1.87	-	0.15	·	tr	2.72	1.78	0.15	•	0.04	1.85	-	96,79	2.74	
	2534A	1.10	13.52	0.09	0.17	32.79	0.25	1.54	-	0.03	tr	tr	2.43	5.01	•	-	0.05	1.94		98.96	4.92	

GRAIN TYPES (%)

		_	, ,		, ,				_ =	GRAI		YPE	5 (%	<u>) </u>	- ,					
		JISO BE	CHE SEE	Sept 3	No.	10 3 A		AMPOID DE		RECO	SHE'S	ONERIA	Ologi		ari /		PARCIAS OF		STREET	REGUL
	74		\$ \$\$\$\circ\$	% √4			No.		/6	/8	, jic	\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1		\\$	<u> </u>	SEC. PO	3 7 3	<u></u>	
2535A	21.82	16.73	26.74	Ŀ	19.39	3.32	6.24	-	0.89	0.31	0.40	-	-	-	-	0.02	-	-	95.84	77.41
2536A	20.67	19.46	44.97	-	8.42	2.08	3.92	-	-	-	-	tr _.	-	-	-	0.19	0.05	-	99.76	81.24
2637A	7.10	11.00	0.66	-	12.29	2.06	3.32		0.05	0.08	0.03	-	•	-	•	1.34	0.03	-	37.96	63.10
2638A	7.20	27.61	0.68	-	4.51	1.69	4.46	-	0.02	-	0.05	0.01	-	-	-	21.96	0.05	-	68.21	78.01
2639A	26.36	5.28	0.44	-	7.21	1.99	2.61		0.27	-	0.02	0.25	•	-	-	1.05	0.02	-	45.50	13.50
2640A	21.81	1.67	0.01	-	3.04	1.59	0.63	0.01	0.04	tr	-	0.71	-	-	-	0.05	0.02	-	29.57	1.9
2641A	5.86	2.18	0.15	-	2.36	0.7 0	0.52	0.01	0.02	0.01	tr	0.02	-	-	-	0.25	-	•	12.08	3.8
2642A	12.47	1.04	0.12	-	2.43	0.34	0.26	-	0.10	-	tr	0.85	-	-	-	0.12	-	-	17.73	1.7
2643A	21.21	8.06	0.74	-	49.93	10.62	2.60	-	•	•	0.11	1.14	1.74	0.12	-	0.21	0.46	-	96.94	7.9
2644A	22.6 5	19.55	3.71	0.09	46.43	2.22	1.69	-	-	-	tr	0.85	0.65	0.06	,	0.28	1.54	-	99.72	1.8
2645A	25.19	13.96	1.10	-	46.17	1.56	1.61	0.01	-	-	0.02	0.81	7.86	-	-	1.40	0.13	-	99.82	8.7
047-A-40	64.22	1.53	0.18	-	20.29	0.01	1.96	0.01	0.17	0.15	0.83	5.79	1.28	0.24	-	tr	3.08	-	99.66	2.8
62-A- 1	42.12	4.13	-	2.15	39.28	7.73	1.29	-	-	tr	tr	2.29	0.19	-	-	tr	0.33	-	99.51	14.9
64-8-1	44.73	10.63	0.01	0.24	26.18	13.93	1.12	tr	0.02	tr	tr	1.89	-	-	-	0.01	0.16	-	98.92	2.6
146-B-15	57.76	0.94	0.15	0.46	24.48	0.83	1.29	-	0.06	0.11	2.07	2.04	2.31	-	-	0.02	5.44	-	97.96	3.9
147-B-11	49.75	1.92	-	1.57	21.27	0.82	2.86	0.01		0.39	4.66	6.29	3.42	0.07	-	0.32	3.22	0.07	99.58	3.4
151-A-1	49.61	1.51	0.19	5.11	25.07	0.14	1.99	-	0.15	0.40	2.42	7.18	1.19	0.16	0.19	0.12	3.96	-	99.39	8.04
247-B-1	53.61	2.25	0.03	1.35	26.06	C.08	1.82	tr	0.11	0.34	3.01	5.10	1.65	-	-	0.02	4.47	0.05	99.94	4.81
251 -A- 1	60.74	1.23	0.07	2.39	21.81	tr	1.85	-	0.07	0.05	1.17	3.85	2.67	0.44		0.01	3.58	-	99.93	3.17
1 A	6.29	4.39	0.08	-	16.64	3.89	0.33	0.08	tr	-	0.23	-	-	-	-	4.72	tr	-	36.50	87.88
2A	44.20	12.00	0.35		3.52	0.99	2.63	-	tr	-	0.10	-	0.10	-	-	17.19	0.15	-	71.23	79.81
3A	12.63	19.44	1.34	-	4.99	0.96	5.71	0.14	0.53	-	0.10	-	-	-		4.03	-	tr	49.87	79.14
4A	6.76	14.56	0.64	-	10.18	2.55	6.60	tr-	tr	-		-	-		- 1	2.86	. .	- ;	44.21	87.4
5▲	14.32	16.60	0.83	-	6.61	0.71	5.55	tr	0.63	-	0.16	tr	-	-	-	3.66		-	49.06	74.5
6A	20.37	8.24	0.56	-	3.23	0.90	4.38	0.02	0.32	0.10	-	-	-	-	•	2.59	0.32	-	41.03	37.3
7 A	19.25	7.23	0.57	-	2.69	0.85	5.09	0.06	0.65	0.06		-	-	-	-	2.61	0.01	-	39.07	29.1
.^> 8A	8.35	2.06	0.20	-	0.96	0.65	2.45	0.01	0.07	0.06	-	0.03		-	-	0.63	tr	-	15.42	10.0
9A	19.24	4.62	0.63	-	2.29	1.37	3.43	0.07	0.11	0.01	0.08	0.06		-	-	2.07	0.09	-	34.07	12.2
10A	23.34	8.26	1.12	-	3.99	0.96	4.43	0.18	0.75	0.02	-	0.54	-	-	-	1.06	0.01	-	44.66	14.1
11A	19.03	1.63	0.13	-	11.42	0.83	0.31	0.04		tr		0.55	-	-	-	0.05		-	33.99	
12A	30.10	0.50	0.05	-	4.85	2.11	0.23	0.04	0.02	-	tr	0.53			-	0.10	-		38.53	_
13A	2.51	-	-	-	4.43				0.03	-	-	0.03	-	-	-	0.46	-	-	9.24	_
14A	3.94	├	 	-	5.17		0.76	\vdash	0.08	 	tr	0.06	-	-	-	0.29	0.06	-	12.21	1
15A	3.26	┢	+	 	6.26	-	1.26	 	-	 	0.01	0.04			-	0.14	 	-	17.05	
134	3.20	1	1		1					<u> </u>			L	<u> </u>	L	1	1	<u> </u>		٠.,

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		/st				A.S.		11/10	/	SRIEGO	/4.	COMPA	* / 52*	A		100	RACIA		Street S	*/:
	/3	LISE STATE						HA OF	\\$`\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SRIP &	ONG!	Or A	A COLOR		RALL &	<i></i>	PACTO	3 /3	\$ 1	RON.
16 A	1.66	0.78	0.04		7.18	1	y ·	0.11	<u> </u>	"	0.03	<u>(</u>	<u> </u>	د ع آ .	<u>(</u>	0.15		<u> </u>	11.05	
17A	┝	22.52	0.80	-	24.58	1.87	1.76	tr	0.15	0.01	0.06	6.46	1.03	<u> </u>	-	0.03	0.69	-	93.73	3.73
18A	29.11	15.92	3.33		36.51	1.42	4.86	0.02	0.22	tr	tr	4.54	0.98	0.15	-	0.41	1.85	0.22	99.54	7.18
19A	14.57	13.01	6.05	-	53.15	3.34	2.82	tr	0.13	0.01	tr	2.78	1.59	0.08	-	0.47	1.19		99.19	9.08
20A	13.07	11.97	4.30	-	52.51	5.66	2.31	tr	0,13	0.02	0.02	1.34	2.03			0.50	0.59	-	94.45	5.69
21A	41.80	6.25	3.38	0.07	15.90	14.46	3.05	0.18	0.42	0,05	0.40	4.36	3.82		-	0.49	-		94.63	32.76
22A	41.69	13.39	2.01	·	31.93	4.45	0.64	-	0.23	tr	0.07	2.26	3.29		-	-	•	-	99.96	18.87
2 3A	42.44	8.96	2.44	٠	8.58	2.63	7.22	0.47	1.57	0.19	-	0.04	0.11		-	5.52	•	٠	80.17	52.93
24 A	56.09	7.36	2.86	Ŀ	4.31	2.01	4.83	2.71	2.08	0.89	0.67	-	-		-	9.44	-	-	93.25	72.86
25 A	54.32	9.32	9.84	Ŀ	7.12	2.29	4.48	0.92	0.37	0.20	1.52	0.80	-			3.96		-	95.54	59.68
26A	42.88	7.22	1.61	-	10.68	6.02	2.93	0.05	0.04	Ŀ	0.13	1.37	0.46		-		•	-	79.41	25.26
27A	54.59	8.75	5.64	Ŀ	7.88	2.82	6.80	-	2.07	1.65	0.78	0.54	٠	٠	-	0.03	-	-	91.55	66.40
28A	51.66	15.29	0.49	0.10	16.96	1.23	0.59	-		tr	-	3.40	2.94	•	-	0.09	-	-	92.75	3.23
29A	47.23	9.43	3.27	•	9.27	5.75	6.19	-	0.27	0.17	0.33	0.90	0.75	-	-	0.14	•	-	83,70	18.46
30A	49.99	9.01	3.11	-	12.13	3.54	3.49	Ŀ	0.24	0.13	0.07	2.94	1.48	•	-	tr	-	-	86.18	4.10
31A	36.99	12.99	0.36	•	29.40	4.84	0.55	0.11	<u>.</u>	0.01	-	1.81	7.45	•	-	0.02	-	-	94.53	4.48
32A								-												
33A	36.13	5.29	0.53		21.32	10.74	1.27	· .	0.06	tr	0.03	2,65	4.46		-	0.48	_	-	96.28	5.20
34A 35A	35.49	3.92 5.74	0.07		33.79 26.31	3.91	0.34	tr	0.08	tr	tr	7.50	7.70			0.40		_	90.89	1.93
36A	19.88	5.54	0.26	0.04	17.53	15.14	0.38	0.14	0.00	tr	0.02	1.90	8.85		-	0.19	-	_	82.85	2.63
	37.11			-		2.39	\vdash		0.08		0.03				•	0.09		_	77.08	2.47
	43.25		1.04			3.72		0.25	-		·0.26	3.52			·	0.53			79.23	-
39A	20.22				10.22		0.60			0.01	0.02	. ***				0.04			40.90	
	16,90	3.05	tr		24.88	\vdash	0.53		-	tr	tr	1.81		-	-	0.15	-		55.05	
41A	14.60	3.49	0.20	0.03	7.50	0.79	1.25	1.06	0.31	0.03	-,	0.31	0.03	- '		0.16	-		29.76	
42A	70.54	2.85	0.62	1.34	3.86	3.98	2.70	0.35	0.40	0.66	0.51	3.26	0.27	0.61	•	0.23	0.05	-	92.14	23.08
43A																				
44A	59.89	3.21	0.09	0.99	10.80	7.25	0.35	• .		0.02	0.02	3.26	1.83	-	-	0.27	0.08	-	98.06	3.27
45 A	56.26	6.57	1.60	0.68	7.90	7.53	1.54	0.68	0.48	0.08	0.06	0.35	0.24		-	1.00	•	-	84.97	13.37
46A	43.65	7.26	0.14	0.39	5.87	0.55	1.59	2.60	0.50	0.18	0.19	0.62	0.23		-	0.24	-	-	64.01	12.57
47 A	70.90	1.21	0.02	1.09	11.76	0.04	2.33	0.01	0.07	0.33	1.74	7.28	0.94	-	-	0.15	1.96	-	98.86	2.95
48A	62.52	5.56	0.96	0.21	6.42	4.81	3.49	0.08	1.48	2.07	2.68	0.63	0.16	-	-	0.09	-		91.17	36.56
49 A																				

									:	GRA	N T	YPE	s(%	.)							
	/¥	LISC OF		97 A				THE OF	- 7				· /	7	RAL S	LE SE	PALCE AND	**/s	STATE	ARGONE!	generalia /
50 A	58.18	6.11	0.30	0.93	7.51	8.55	1.74	-	0.09		1			•	·	0.10		-	88.98	7.33	
514																					
52A	62.74	9.37	2.48	0.79	8.74	4.11	4.50	-	2.54	1.36	-	0.47	Ó.02	-	-	- 1	•	•	97.12	47.16	
53A	70.43	7,35	0.08	0.45	8.30	4.70	1.79	0.04	0.33	0.02	0.01	2.40	0.38	-	-	0.04	-	-	96.32	14.61	
54A																					
.55A	39.47	6.08	4.36	2.81	21.77	3.94	2.27	13.32	0.62	1.67	Ŀ	0.80	0.52	0.05	-	0.08		<u> </u>	97.76	61.08	
56A	62.46	7.94	1.06	1.03	6.45	5.95	1.78	0.92	0.25	0.67	•	0.33	·			2.74	-	-	91.58	37.20	
57A	56.86	11.21	1.59	0.92	13.23	4.10	1.74	1.15	0.13	0.58	0.16	0.18			·	1.56	-	-	93.41	30.99	!
58A																					
59A				L																	
60A	53.80	14.20	0.87	1.70	8.96	2.46	2.22	0.23	0.50	0.24	0.11	0.13		-	-	0.03	-	_	85.45	37.96	
61A	59.89	13.82	0.44	0.41	9.36	3.96	1.57	0.10	0.49	0.64	0.13	0.05	-	-	·	0.40	-		91.26	37.06	
62A	65.97	3.71	tr	1.10	13.09	12.34	1.26	0.04	-	tr	•	1.49	0.37	-	-	0.17	•	_	99.54	5.91	
63A	57.51	11.88	0.77	0.70	9.62	2.28	1.75	0,35	1.45	0.61	0.61	0.09	٠	٠	·	1.18	-	·	88.80	53.92	
64A	44.46	16.58	0.82	1.22	12.37	5.39	2.42	0.88	0.74	0.44	0.36	0.12	0.02	٠	-	0.48	·	-	86.30	49.84	
65A	51.84	11.70	0.54	1.57	9.89	4.37	1.78	-	0.99	0.28	0.07	0.02	-		-	-	-	-	83.05	42.31	

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CONSTITUENT PERCENTAGE OF WHOLE SAMPLE

•									CONS	TITUE		AIN	T	PE	<u>s (</u>	%)	SAM	r l l							,
		/					S.	S.	4/s		//	8/	/	JEN	*/3	/ *		/		/ }/	S. S. S.		STACE		
	/3	S JUS							A COLO		STRIF	30	AC.	CHECK	rolo Rolo			× /\$		F PR		*/ 3		SEP CONTRACT	ACCEPTED TO SEE
2101A	35.26	T	1	0.	1	1	0.11	2.97	0.78	1	1	.21	-	0.02			-	-	5.	- 1	.05	-	51.7	8.	85
2102A	15.43	2.8	0 -	1	5	.06	0.86	2.60	0.10	6 -			0.12	0.17	Ŀ	1	-	-	0.	99 (0.09		28.2	8 3.	69
2103A	33.29	2.5	0 t	r	18	.56 1	3.35	1.70	0.1	8 0.0	08	tr	tr	1.4	6 Ó.	03	-	-	0.	31	0.13	-	71.5	6 3.	77
2104A	30.29	7,9	8 0.	83 9.	. 39 26	.65	9.57	2.05	0.1	8 0.	05	tr	0.05	2.56	4.2	4	-	<u> </u>	0.	22	1.09	-	95.1	╁	.45
2105A	19.7	8 13.	11 8.	.07	. 44	.66	0.04	1.56	Ŀ	0.	24 0	.05	0.06	2.7	2 2.	94	-	_	1.	06	0.29	-	94.		.06
2106A	31.0	0 9.	57 18.	.20	- 10	6.36	0.30	4.83	Ŀ	2.	62 0	.10	0.10	2.0	2 0.	.44	0.13	-	╁╴	39	0.76		┼	32 12 35 10	
2207A	24.4	5 10.	20 0	.04 1	.01 1	4.19	1.33	4.51	0.4	3 0.	07. (27	0.65	┼	╁	\dashv	0.01	╁	╁	.10	0.01		36.	╅	.89
2208A	14.5	5 7.	04 0	.18 0	. 34	9.97	0.90	2.5	1	0.	13	-	0.30	╀┈	╫	-		 	╁	.03	0.11	0.0	┿	64 41	-
2209A	24.3	6 14.	07 0	.82 0	.29 1	0.06	1.33	2.8	6 -	0.	.44	0.77	0.15	0.2	25	\dashv		H	╁	.23		-	+	+	\dashv
2210A	_	1	4	4	\dashv			_	+	+	+		<u> </u>	2.	52 4	0.01	0.2	+-	+	.15	0.97	-	86	32 1:	3.03
2211A	43.	23 3.	.05 0	26 1	1.01 2		1.53		╈	十	\dashv	0.04	-	╁╌	十	0.02		-	十	,06	0.09	-	╁	┿	3.58
2212A		+	+	9,03	-	9.85	0.93	╁╌	十	╅	.50		0.0	+	37	-	-	+-	╅	0.02	0.01	-	41	.42 5	8.29
2313A	\vdash	64 4	.12 1	5.34		6.48	0.41	1 2.4	+	+	-		+	+	+			\dagger	\dagger				1	1	\exists
2314A	\vdash	╁	\dashv	+	\dashv	,		╁╴	+	+	十		<u> </u>	†	+			†	1			Γ	1		
2315A 2316A	\vdash	95 8	.85	0.66	0.62	11.05	0.7	2 2.	66 0	.24	0.68	0.46	5 0.0	07 1	.22	0.16	-	1		0.06	0.6	9 -	5:	3.07	11.85
2317/	\vdash	.55 11	-+	0.30		15.19	2.4	5 7.	00 0	.08	0.30	0.3	9 0.:	27 0	.46	:	-		-]	0.24	0.0	8	. 69	. 92 2	6.83
2318	╁	十	4.75	tr	-	5.14	1.1	9 0.	24	- 1	0.08	-	0.	01 0	.09	-	-		-	0.02	0.0	2	. 18	.15	1.68
2419	A 14	.68	3.52	tr	0.07	15.71	1.8	7 1.	55	- 1	0.10	-	0.	86 0	.13	-					0.0	6	_ 38	.53	2.45
2420	A 32	.48	1.93	0.02	0.07	21.6	5.3	36 1	.12	-	0.10	-	1.	18 0	0.20	-	L		-	_	0.0	02	- 64	.17	2.49
2421	A 25	.94	1.91	-	0.14	18:9	6 1.6	57 2	.53	0.39	0.07	0.1	4 0.	21 (0.01		Ŀ	1	-	-	0.	34		2.29	10.33
2422	A 27	.44	2.07	0.07	-	9.1	1 4.	35 2	.73	0.18	-		0.	12	2.51	-	0.	.65		0.8	2 0.	49	+		12.12
2423	3A 57	.45	1.29	0.07	·	5.4	8 7.	66 1	. 32	0.03	0.18	0.0	01 (0	.01	1.33	-	L	4	-	1.0	4 0.	55	+		16.83
2424	<u> [</u>	7.51	0.98	0.02	0.01	3.4	4 0.	85 0	.43	0.06	0.06	t:	1	ir I	0.04	-	\bot	4	-	0.1	1 0.	01	十	3.53	4.56
242	SA	8.16	1.06	0.06	0.06	2.1	7 0.	16 0	.34	_	0.01	Ŀ	4		0.54	0.1	0	+		0.0	十	18	-+	2.87	-
242	6A R	7.58	5.93	2.06	Ŀ	12.2	3 4.	37 2	.70	-	0.23	0.	02 0	.05	0.67	-	+	+	-	0.1	+	.17	-+	6.17	-
242	7 4	5.86	4.49	20.49	Ŀ	5.0	0.	60	.95	0.08	0.02	<u> </u> -	+	-	0.16		+	+	_	0.0	+	十	-+		61.65
252	84	1.84	2.65	0.23	0.0	1 13.4	40 1.	.51	63	-	0.0	в о.	.01	-	2.45	-	十	.28		3.0	+	.86	\dashv		1.35
252	94	8.51	4.38	0.04	1-	35.	76 1.	.77	0.10	-	tr	+	-	tr	1.99	╁	+			0.	+	.51	\dashv	85.24 87.54	-
-∜: 25 3	SOA	5.94	4.54	0.25	-	21.	85 17	. 32	0.75	-	0.0	6 1	tr (0.01		13.	十	-	<u>.</u>	 	十	. 38	-	93.61	╂─
25:	31A	28.82	7.91	0.07	<u> </u>	35.	70 4	.70	1.03	-	0.0	╈	tr	tr		11.	十	0.09		╁	╅	.96		83.9	╁╌
25	32A	33.28	9.59	3.50	<u>'</u>	20.	63 5	.18	2.48	-	0.1	╅	+	0.11	2.55	十	十	0.10	<u>.</u>	┢	十	.97		93.7	十一
25	33A	46.32	10.6	0.5	1 -	27.	29 0	.63	1.81	-	0.1	十	-+	tr	2.63	╁┈	+	0.15		╁	十	.79	_	93.7	╁╌
25	34A	38.95	12.8	1 0.0	9 0.:	16 31 .	.07	.24	1.46	-	0.0	3	-	-	2.3	0 4	.75			10.	.05	.84		′′′′	1

GRAIN TYPES (%)

			, ,	/ _/	/ A-/	, ,	· /	, ,	, ;	, , , , , , , , , , , , , , , , , , , 		, ; ;	<u> </u>	,	, ,	, ,	, ,	, ,	, ,	, ,
		, gr	AN S					ST NO	1	/8	/2	Jack		A		188	/\$	\$/	(4)	*/ <
	/3	D'ISE				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		HINO O		STREET	OKOL	CHOMBO S	A COLOR		SRAL		RACIA		ASTRICE!	
				1		Υν Τ	7 `		l l		 	7	76	AL STATE	1 8	/ ×		7	~	
2535A	4.93	3.78	6.04	-	4.38	0.75	1.41	-	0.20	0.07	0.09	Ŀ	<u> </u> -	-	<u> </u>	<u> </u>	Ŀ	<u> </u>	21.67	77.41
2536A	4.27	4.02	9.29	 	1.74	0.43	0.81	-	<u> </u>	ļ ·	<u> </u> -	tr	Ŀ	<u> </u>	<u> -</u>	0.04	0.01	-	20.63	81.24
2637A	2.59	4.01	0.24	 -	4.48	0.75	1.21	<u> </u>	C.02	0.03	0.01	Ŀ	Ŀ	Ŀ	Ŀ	0.49	0.01	-	13.85	63.10
2638A	1.58	6,06	0.15	-	0.99	0.37	0.98	Ŀ	tr	<u> </u>	0.01	tr	·	Ŀ	Ŀ	4.82	0.01	Ŀ	15.00	78.01
2639A	22.77	4.56	0.38	<u> </u> -	6.23	1.72	2.25	Ŀ	0.23	Ŀ	0.02	0.22	<u>-</u>	Ŀ	<u> </u> -	0.91	0.02	-	39.30	13.56
2640A	21.37	1.64	0.01	Ŀ	2.98	1.56	0.62	tr	0.04	-	Ŀ	0.70	-	Ŀ	Ŀ	0.05	0.02	Ŀ	28.96	1.93
2641A	5.63	2.09	0.14	Ŀ	2.27	0.67	0.50	0.01	0.02	0.01	tr	0.02	Ŀ	-	-	-	0.24		11.62	3.80
2642A	12.24	1.02	0.12	Ŀ	2.39	0.33	0.26	Ŀ	0.10	Ŀ	-	0.83	<u> </u>	-	-	-	0.12	•	17.41	1.78
2643A	19.53	7.42	0.68	Ŀ	45.97	9.78	2.39		Ŀ	<u> </u>	0.10	1.05	1.60	0.11	-	0.19	0.42		89.33	7.91
2644A	22.22	19.18	3.64	0.09	45.54	2.18	1.66	·	ŀ		tr	0.83	0.69	0.06	-	0.27	1.51	•	97.79	1.88
264 5A	22.98	12.74	1.00	Ŀ	42.13	1.42	1.47	0.01	<u> </u>	-	0.02	0.74	7.17	1	•	0.12	1.28	•	91.09	8.72
047-A-40	€2.36	1.49	0.17	Ŀ	19.70	0.01	1.90	0.01	0.16	0.15	0.81	5.54	1.24	0.23		tr	2.99	-	96.77	2.86
62 -A -1	35.68	3.50	Ŀ	1.82	33.27	6.55	1.09	-	<u> </u>	tr	tr	1.94	0.16	-		tr	0.28	-	84.29	0.41
64-B-1	43.64	10.37	0.01	0.23	25.54	13.59	1.09	tr	0.02	tr	tr	1.84	•	-	٠	0.01	0.16	•	96.59	2.63
146-B-15	55.47	0.90	0.14	0.44	23.51	0.80	1.24	_	0.06	0.11	1.99	1.96	2.22	-	-	0.02	5.22	-	94.08	3.94
147-B-11	47.94	1.85	•	1.51	20.49	0.79	2.76	0.01	-	0.38	4.49	6.06	3.30	-	-	0.31	3.10	0.07	93.05	3.45
151-A-1	45.57	1.39	0.17	4.69	23.03	0.13	1.83	-	0.14	0.37	2.22	6.60	1.09	0.15	0.17	0.11	3.64	-	91.30	8.04
247-B-1	51.00	2.14	0.03	1.28	24.79	0.08	1.73	tr	0.10	0.32	2.86	4.85	1.57	-		0.02	4.25	0.05	95.07	4.81
251-A-1	58.72	1.19	0.07	2.31	21.09	tr	1.79		0.07	0.05	1.13	3.72	2.58	0.43	-	0.01	3.46	•	96.62	3.17
1A	0.76	0.53	0.01	-	2.01	0.47	0.04	0.01	tr	-	0.01	-	-	•	•	0.52	tr	-	4.41	87.88
2A	8.91	2.42	0.07	-	0.71	0.20	0.53		tr	-	0.02	-	0.02	-	-	1.45	0.03	-	14.36	79.83
3A	2.63	4.05	0.28		1.04	0.20	1.19	0.03	0.11	-	0.02	-	-	-	•	0.84	-	tr	10.39	79.14
4A	0.85	1.83	0.08	-	1.28	0.32	0.83	tr-	tr	•	-	-	-			0.36	. •	-	5.55	87.41
5A	3.64	4.22	0.21		1.68	0.18	1.41	tr	0.16	•	0.04	tr	-	-		0.93	٠ -	-	12.47	74.54
6 A	12.74	5.15	0.35	-	2.02	0.56	2.74	0.01	0.20	0.06	-	-	- :	-	-	1.62	0.02	•	25.47	37.38
7A	13.58	5.10	0.40	-	1.90	0.60	3.59	0.04	0.46	0.04	-	-	-	-	-	1.84	0.01	-	27.57	29.13
8A	7.50	1.85	0.18	-	0.86	0.58	2.20	0.01	0.06	0.05	-	0.03	-	-	-	0.57	tr	٠	13.89	10.02
9 A	16.82	4.04	0.55	-	2.00	1.20	3.00	0.06	0.10	0.01	0.07	0.05	-	-	-	1.81	0.08	-	87.43	12.24
10A	20.00	7.08	0.96		3.42	0.82	3.80	0.15	0.64	0.02	-	0.46				0.91	0.01	-	38.27	14.13
11A	18.48	1.58	0.13		11.09	0.81	0.30	0.04	-	tr	-	0.53		-		0.05		$\overline{\cdot}$	33.00	2.30
12A	28.99	0.48	0.05	-	4.67	2.03	0.22	0.04	0.02	·	tr	0.51	-		-	0.10	-	-	37.11	3.63
13 A	2.46	0.62	tr	-	4.35	0.74	0.36	0.03	0.03			0.03	-			0.45	-	-	9.07	1.82
14A	3.84	1.33	0.04	-	5.04	0.44	0.74	-	0.08	-	tr	0.06	-	-	-	0.28	0.06	-	11.91	2.11
15A	3.15	2.97	0.66	-	6.05	2.06	1.22	0.04	0.14	-	0.01	0.04	-		-	0.13	-	-	16.47	3.42
				+																

GRAIN TYPES (%)

		,	,	,		,	b. d	,	7	GRAI	N T	YPE	<u>3 (%</u>		. ,	,	,	,	. ,	. ,
		Įş.	A S			A S		t no	/5	NGO S	/s	ON OF	of the	St.			ALC PO	/	SERVER	1.91
	Į į	JUS A						A CO	\\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A S	SKE ST	St. St.	O A				ACT OF	\$/3	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
16A	1.63	0.76	0.04	-	7.03	0.42	0.66	-	0.11	-	tr	0.03	-	-	-	0.15	-	-	10.83	1.91
17 A	32.43	21.62	0.77	-	23.60	1.80	1.69	tr	0.14	0.01	0.06	6.20	0.99	•	-	0.33	0.66	-	90.02	3.73
18A	26.95	14.74	3.08	-	33.80	1.31	4.50	0.02	0.20	tr	tr	4.20	0.91	0.14	-	0.38	1.71	-	92.14	7.18
19A	13.19	11.78	5.48	-	48.12	3.02	3.02	2.55	tr	0.01	tr	2.52	1.44	0.02	-	0.43	1.08	•	89.81	9.08
20A	12.30	11.27	4.05	-	49.42	5.33	2.17	tr	0,12	0.02	0.02	1.26	1.91	•	-	0.47	0.56	-	88.90	5.69
21A	28.10	4.20	2.27	0.05	10.69	9.72	2.05	0.12	0.28	0.03	0.27	2.93	2.57	-	•	0.33	-	-	63.60	30.76
2 2A	33.79	10.85	1.63	•	25.88	3.61	0.52	-	0.19	tr	0.06	1.83	2.67	-	-	-	-	-	81.03	18.87
23A	19.98	4.22	1.15	•	4.04	1.24	3.40	0.22	0.74	0.09	•	0.02	0.05	-		2.60		-	37.75	52.93
24A	15.10	1.98	0.77	-	1.16	0.54	1.30	1.30	0.73	0.56	0.18	tr	-		-	2.54	-	-	25.10	72.86
25A	21.81	3.74	3.95	Ŀ	2.86	0.92	1.96	0.37	0.15	0.08	0.61	0.32	·	·	-	1.59	-	-	38.37	59.68
26A	32.03	5.39	1.20	·	7.98	4.50	2.19	0.04	0.03	Ŀ	0.10	1.02	0.34	•		-	-	-	54.81	25.26
27A	18.21	2.92	1.88	-	2.63	0.94	2.27		0,69	0.55	0.26	0.18		-	-	-	0.01		30.55	66.40
28A	49.87	14.76	0.47	0.10	16.37	1.19	0.57	-	-	tr	-	3.28	2.84	•	-	-	0.09	-	89.5	3.2
29A	38.51	7,69	2.67	Ŀ	7.56	4.69	5.05	•	0.22	0.14	0.27	0.73	0.61	-		•	0.11	-	68.25	18.4
3QA	47.75	8.61	2.97	-	11.59	3.43	3.33	-	0.23	0.12	0.07	2.81	1.41	Ŀ	<u>.</u>	tr		-	82.34	4.10
31A	35.22	12.37	0.34	-	27.99	4.61	0.52	0.10	•	0.01	-	1.72	7.09		٠	0.02	-	-	90.00	4.4
32Å					<u>. </u>															
33A	34.13	5.00	0.50	Ŀ	20.14	10.15	1.20		0.60	tr	0.03	2.50	4.21	- :	•	13.04	-	-	90.97	5.20
34 A	34.75	3.84	0.07	<u> </u>	33.09	1.57	0.33	tr.	Ŀ		tr	7.34	7.54	-	•	0.47	-	-	89.01	1.93
35A	30.90	5.57	0.08	0.04	25.55	3.80	0.89	·	0.08	tr	tr	3.27	10.27	-	-		٠	-	80.46	2.63
. 36A	19.39	5.40	0.25	·	17.10	14.77	0.37	0.14	Ŀ	tr	0.02	1.85	8.63	-	Ŀ	0.19	•	_	68.11	2.47
37A	35.58	6.95	0.16	Ŀ	13.53	2.29	0.61	tr	0.08	0.01	0.03	3.84	10.74	-		0.09	•		73.91	3.83
38A	38.57	5.83	0.93		10.93	3.32	2.46	0.22	0.23	0.02	0.22	3.14	4.30		-	0.47	. •	_	70.66	10.64
39A	19.52	2.69	0.16		9.87	3.17	0.58	0.02		0.01	0.02	1.81	1.62		Ŀ	0.04	-		39.51	3.32
40A	16.58	2.99	tr	Ŀ	24.40	4.67	0.52	0.04	·	tr	tr	1.78	2.91		-	0.15	-	Ŀ	54.04	1.67
41 A	13.78	3.29	0.19	0.03	7,08	0.75	1.18	1,00	0.29	0.03		0.29	0.03		<u></u>	0.15	Ŀ		28.08	5.53
42A	54.20	2.19	0.48	1.03	2.97	3.06	2.08	0.27	0.31	0.51	0.39	2.51	0.21	0.47	-	0.18	0.04		70.91	23.08
43A	<u> </u>	_			_	_	_	<u> </u>	<u> </u>	<u> </u>	L						<u> </u>			<u> </u>
444	67.37	3.09	0.09	0.95	10.41	6.99	0.34	Ŀ	Ŀ	0.02	0.02	3.14	1.76	Ŀ		0,26			94.52	3.27
45A '	48.74	5.69	1.39	0.59	6.84	6.52	1.33	0.59	0.42	0.07	0.05	0.30	0.21		<u> </u>	0.87		Ŀ	73.61	13.02
46A	38.12	6.34	0.12	0.34	5.13	0.48	1.39	2.27	0.44	0.16	0.17	0.54	0.20	-	<u> </u>	0.21	Ŀ	-	55.91	12.57
47A	68.80	1.17	0.02	1.06	11.41	0.04	2.26	0.01	0.07	0.32	1.69	7.06	0.96	Ŀ	Ŀ	0.15	1.90	Ŀ	96.91	2.95
48A	39.61	2.52	0.61	0.13	4.07	3.05	2.21	0.05	0.94	1.31	1.70	0.40	0.10	Ŀ	<u> </u>	0.06	Ŀ	·	57,79	36.56
49A		<u> </u>		L_					<u> </u>						<u> </u>					

									_(GRAI	N T)	-						
	\\$ ²	JIS TO				A STATE OF THE PARTY OF THE PAR		MA SE	15 / S	RECO	SKOK NE	OMERI	Ology		ARL S		PACT STO	34/3	Street A	A STATE OF THE STA	iger 1
50A	53.85	6.12	0.28	0.86	6.95	7.91	1.61		0.08	0.08	0.01	3.85	0.63	·	·	0.09		-	82.31	7.33	
51A																					
52A	33.16	4.95	1.31	0.42	4.62	2.17	2.38	-	1.34	0.72		0.25	0.01	-	-	-	-	-	51.33	47.16	
53A	60.06	6.27	0.07	0.38	7.08	4.01	1.53	0.03	0.28	0.02	0.01	2.05	0.32	-	-	0.03	-	-	82.16	14.61	
54 A																					
55A	15.32	2.36	1.69	1.09	8.45	1.53	0.88	5.17	0.24	0.65	-	0.31	0.20	0.02	-	0.03	-	_	37.94	61.08	
56A	39.39	5.01	0.67	0.65	4.07	3.75	1.12	0.58	0.16	0.42	1	0.21		-	-	1.73	-	_	57.74	37.20	
57A	38.95	7.68	1.09	0.63	9.07	2.81	1.19	0.79	0.09	0.40	0.11	0.12	•	,	-	1.07	-	-	64.00	30.99	
58A																					
59A																					
60A	33.26	8.78	0.54	1.05	5.54	1.52	1.37	0.14	0.31	0.15	0.07	0.08	-	-		0.02	-	-	52.82	37.96	
61A	37.69	8.70	0.28	0.26	5.89	2.49	0.99	0.06	0.31	0.40	0.08	0.03	•	•	•	0.25	-	-	57.43	37.06	
62A	61.72	3.47	tr	1.03	12.25	11.55	1.18	0.04	-	tr	1.39	0.35	•	-	-	0.16	-	-	93.15	5.91	
63A	26.24	5.42	0.35	0.32	4.39	1.04	0.80	0.16	0.66	0.28	0.28	0.04	-	•	-	0.54		_	40.51	53.92	
64A	22.25	8.30	0.41	0.61	6.19	2.70	1.21	0.44	0.37	0.22	0.18	0.06	0.01	•	•	0.24	-	-	50.05	49.84	
65A	29.78	6.72	0.31	0.90	5.68	2.51	1.02	•	0.57	0.16	0.04	0.01		-	•	-	-	-	47.71	42.31	

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APPENDIX III

Carbonate Constituent Composition
in Coarse Fractions

THE COLOR TYPES (78)				A.							-	GRAI	N T	YPE	s (%)	- ,								
Part 1988 1			, kg					NI VI		tt on		ERN	o Ci	i Jakan	TORY	De.	[18			ARCEL			dis/	
Part 1988 1	. 4	STE	Ser AG		3/6/2	39 ×	No.	<i>\$</i> \$\$		Mary of	** / PO	4 A	RIV.	4			8 8 P	<i>Y</i> /\$	P. NO.	3/3	8 18 E			N. S.	RECOX
THE THE THE THE THE THE THE THE THE THE			93.3	_	_	_				_					_			-				<u> </u>	686	100	0
THE THE THE THE THE THE THE THE THE THE	01C+E	2-4	95.1	-	-	-	0.9	-	43.0	-	-		-	-	-	-	-	-	_	-	323	-	323	100	0
The lates of the l	77	1-2	92.8	-			1.6	0.6	4.1	-	-	-	-	0.3		-	-	0.3	0.3	•	319		319	100	0
The lates of the l																									
The color of the		>4	55.2 /5.9	3.4	-	-	_	-	20.7		2.1	1.2	-	7.4	-	0.9		-	_	2.5	324		324	100	0
The)2B+G	2-4	47.1	26.9	-		0.6	_	16.7	-	· -	-	-	3.6	-	0.3	-	4.2	0.6	-	335	Ŀ	335	150	0
The state of the s	21(1-2	44.3	36.1	-	-	3.6	0.3	10.3	-	-	·-	-	2.4	-	-	-	2.4	0.6	-	330	2	332	99.4	0.6
The state of the s																									
THE TABLE 1 S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		>4		0.3		3.7		_	1.8		51.1	•		0.8	0.5	0.2				0.9	655		655	190	0
THE TABLE 1 S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	103B+H	2-4	59.0	1.7	-	1.7	17.7	14.0	1.0	-	-	-	-	4.3	0.6	-	-	<u> </u> -	<u> </u>	-	300	-	300	100	0
The image	2	1-2	54.2	1.3		1.0	23.1	14.6	1.6	_	٠			1.9	0.7	-		1.3	0.3	-	308	27	335	91.9	8.1
The image																									
Table Tabl		>4	24.6 /7.7	0.9		1.2	<u> </u>	_	3.1	-	7.3	0.1	-	4.6	48.3	0.6	<u> </u>	_	0.7	0.9	905		905	100	0
Table Tabl	104B+H	2-4	24.0			5.9	12.2	0.6	0.6		-	-	-	5.6	51.0	-			-	<u> </u>	304	Ŀ	304	Tue	0
Second Color Seco	~	1-2	25.9	1.6	_	9.9	22.1	1.9	0.6	_	-	•	-	6.7	31.0	-	Ŀ	-	0.3	Ŀ	313	_	313	100	0
Q-4 23.1 1.8 - 0.3 45.6 - 0.6 - - - - - 3.3 23.0 - - - 0.3 - 331 - 331 100 0 0																									
1-2 29.3 10.6 - - 51.1 0.3 0.6 - - - - 2.8 9.7 - - - 0.6 - 321 - 321 100 0 37.3 - - - - - - - - - - - - - - - - - - - -		>4	/5.5	•	-	-	-	-	0.6	-	-	•	-	0.9	59.2	0.1		0.7	0.1	0.6	668	<u> </u>	668	100	0
1-2 29.3 10.6 - - 51.1 0.3 0.6 - - - - 2.8 9.7 - - - 0.6 - 321 - 321 100 0 37.3 - - - - - - - - - - - - - - - - - - - -	05A+D	2-4	25.1	1.8	-	0.3	45.6		0.6	-	-	1	1	3.3	23.0	-	-	<u> </u>	0.3	-	331	-	331	100	0
2-4	210	1-2	24.3	10.6	-	,	51.1	0.3	0.6	-	-	ı	•	2.8	9.7	٠.	,	-	0.6	-	321	-	321	100	٥
2-4																									
THE POLICE TO SERVICE THE POLICE TO SEARCH TO		>4	30.3 /5.1	•	-	-		-	4.7	0.3 Brach	57.0	0.3	-	0.3	-	1.5	<u> </u> -	-	0.1	0.8	749	-	749	100	٥
THE POLICE TO SERVICE THE POLICE TO SEARCH TO	6A+C	2-4	42.4	7.9	-		41.6		1.4	-	-	-	-	4.5	0.8	0.6	_	-	0.8	0	356	-	356	100	0
2-4 54,6 29.9 - 0.9 0.3 0.3 7.4 - - - - 1.4 - 0.6 - 4.5 0.3 - 351 - 351 100 0 1-2 46.0 41.6 - 1.3 2.5 0.3 5.7 - - - - 1.0 0.3 0.3 - 0.6 0.3 - 315 - 315 100 0 3-4 66.0 7.1 - - 0.5 - 14.1 - 1.1 0.3 - 4.5 0.3 3.2 - - 4.0 4.0 376 - 376 100 0 2-4 79.1 0.6 - 0.9 3.8 3.2 2.9 - - - - - 3.8 - 0.9 - 4.1 0.3 0.6 344 - 344 100 0 3-4 87.9 - - - - - 6.7 Scaph - 0.2 - 1.1 - - - - - - 3.0 922 - 922 100 0 3-4 87.9 - - - - 0.3 0.6 2.2 - - - - 0.6 - - - 4.0 0.6 0.6 327 - 327 100 0 3-4 87.9 - - - 0.3 0.6 2.2 - - - - 0.6 - - - 4.0 0.6 0.6 327 - 327 100 0 3-5 100 0 0 0 0 0 0 0 0	210	1-2	57.9	15.2	-	-	15.6	0.3	1.2	-	-	-	-	6.1	3.4	<u>-</u>	-		0.3	-	328	-	328	100	0
2-4 54,6 29.9 - 0.9 0.3 0.3 7.4 - - - - 1.4 - 0.6 - 4.5 0.3 - 351 - 351 100 0 1-2 46.0 41.6 - 1.3 2.5 0.3 5.7 - - - - 1.0 0.3 0.3 - 0.6 0.3 - 315 - 315 100 0 3-4 66.0 7.1 - - 0.5 - 14.1 - 1.1 0.3 - 4.5 0.3 3.2 - - 4.0 4.0 376 - 376 100 0 2-4 79.1 0.6 - 0.9 3.8 3.2 2.9 - - - - - 3.8 - 0.9 - 4.1 0.3 0.6 344 - 344 100 0 3-4 87.9 - - - - - 6.7 Scaph - 0.2 - 1.1 - - - - - - 3.0 922 - 922 100 0 3-4 87.9 - - - - 0.3 0.6 2.2 - - - - 0.6 - - - 4.0 0.6 0.6 327 - 327 100 0 3-4 87.9 - - - 0.3 0.6 2.2 - - - - 0.6 - - - 4.0 0.6 0.6 327 - 327 100 0 3-5 100 0 0 0 0 0 0 0 0																				٠.					
1-2 46.0 41.6 - 1.3 2.5 0.3 5.7 - - - 1.0 0.3 0.3 - 0.6 0.3 - 315 - 315 100 0 -2 46.0 41.6 - 1.3 2.5 0.3 5.7 - - - - 1.0 0.3 0.3 - 0.6 0.3 - 315 - 315 100 0 -2 46.0 41.6 - 1.3 2.5 0.3 5.7 - - - - 4.5 0.3 3.2 - - 4.0 4.0 376 - 376 100 0 -2 4 79.1 0.6 - 0.9 3.8 3.2 2.9 - - - - 3.8 - 0.9 - 4.1 0.3 0.6 344 - 344 100 0 -2 4 71.0 - - - - - - - -		>4	46.4 /1.9	2.8	-	0.3	-		30.6	-	1.1	0.6	-	5.0	1.1	-	-	-	9.7	0.6	360	-	360	100	0
>4 $\frac{66.0}{72.1}$ - - 0.5 - 14.1 - 1.1 0.3 - 4.5 0.3 3.2 - - 4.0 4.0 376 - 376 100 0 2-4 79.1 0.6 - 0.9 3.8 3.2 2.9 - - - - 3.8 - 0.9 - 4.1 0.3 0.6 344 - 344 100 0 1-2 62.3 5.3 - 2.2 - 13.9 14.8 - - - 0.3 - - 0.9 - 4.1 0.3 0.6 344 - 344 100 0 - 62.3 5.3 - 2.2 - 13.9 14.8 - - - 0.3 - 0.9 - 0.3 324 - 324 100 0 - - - - - - - - - - - - - - -	Į÷	2-4	54.4	29.9	-	0.9	0.3	0.3	7.4	-	-	-	-	1.4	· -	0.6	<u> </u>	4.5	0.3	· =	35 <u>1</u>	-	351	100	0
2-4 79.1 0.6 - 0.9 3.8 3.2 2.9 3.8 - 0.9 - 4.1 0.3 0.6 344 - 344 100 0 1-2 62.3 5.3 - 2.2 - 13.9 14.8 0.3 0.9 - 0.3 324 - 324 100 0 3-4 87.9 6.7 Scaph - 0.2 - 1.1 3.0 922 - 922 100 0 2-4 91.1 0.3 0.6 2.2 0.6 4.0 0.6 0.6 327 - 327 100 0	2207	1-2	46.0	41.6	-	1.3	2.5	0.3	5.7	-	-	-	-	1.0	0.3	0.3	-	0.6	0.3	-	315	_	315	100	0
2-4 79.1 0.6 - 0.9 3.8 3.2 2.9 3.8 - 0.9 - 4.1 0.3 0.6 344 - 344 100 0 1-2 62.3 5.3 - 2.2 - 13.9 14.8 0.3 0.9 - 0.3 324 - 324 100 0 3-4 87.9 6.7 Scaph - 0.2 - 1.1 3.0 922 - 922 100 0 2-4 91.1 0.3 0.6 2.2 0.6 4.0 0.6 0.6 327 - 327 100 0								-																	
2-4 91.1 0.3 0.6 2.2 0.6 4.0 0.6 0.6 327 - 327 100 0		>4	66.0 /2.1	-	-	0.5		-	14.1	_	1.1	0.3	-	4.5	0.3	3.2			4.0	4.0	376	-	376	100	0
2-4 91.1 0.3 0.6 2.2 0.6 4.0 0.6 0.6 327 - 327 100 0	B+C	2-4	79.1	0.6	Ī -	0.9	3.8	3.2	2.9	-	-	-	-	3.8	-	0.9	-	4.1	0.3	0.6	344	-	344	100	0
2-4 91.1 0.3 0.6 2.2 0.6 4.0 0.6 0.6 327 - 327 100 0	220	i-2	62.3	5.3	-	2.2	-	13.9	14.8	-	-	-	0.3	-	•	-	-	0.9	-	0.3	324	-	324	100	0
2-4 91.1 0.3 0.6 2.2 0.6 4.0 0.6 0.6 327 - 327 100 0																									
	1	>4	87.9 /1.0	-	-	-	-	-	6.7	0.1 Scaph		0.2	-	1.1	-	-	<u> </u>	Ŀ	-	3.0	922	-	922	100	0
	98+D	2-4	91.1		-	-	0.3	0.6	2.2	-	-	-	-	0.6	-	-	-	4.0	0.6	0.6	327	-	327	100	0
	220	1-2	84.8	0.3	T .	_	1.3	-	5.2		-			1.3	-		-	6.2	0.3	0.6	309	-	309	100	

			J.		: ,		_	م نا		_	GRAI		YPE)	- ,	,				,	. ,	,	,
	STE	erection	No.						AL COLO	WE SE	a tegal	AND ST	ONE	OUT.		AN A	100 N	PACT NO.		SET ST			OS/A	100 M
ſ	/5° ¢	40.7		9×4×6						1		\ \begin{align*}		1		/♥	\ <u>\k</u>		1	i i	784		۲	
Ω÷Ω	2-4	/ 9.4 53.9	-	-	0.9	23.8	2.1	1.4	-	26.2	7.0	-	2.8	15.1	0.9	-	-	1.2	0.2	332	•	332	100	0
2211B+C	1-2	46.7	0.6		1.2	27.9	1.2	0.3	-		-	-	1.8	18.2	-	-		2.1		330		330	100	0
					<u> </u>						لــــا								<u> </u>	<u>. </u>				
Ì	>4	76.4 /13.8	-	•	:		-	6.6	-	1.4	-	-	0.4	-	1.0	-		-	0.4	1206	-	1206	100	0
7212B+G	2-4	85.7	6.8			1.5	0.3	3.6	-	•	-	-	1.5	-	-	•	0.3	0.3	-	337	-	337	100	0
727	1-2	68.0	21.4		•	2.0	2.0	3.7	-	•	,	-	2.6	-	-	•	•	0.3	<u> </u>	350	-	350	100	0
											,													
	>4	61.4 /15.7	Ŀ		-		-	16.2	-	0.2	-	•	3.5	-	1.9	-	-	_	1.2	1028	-	1028	100	0
2313A+B	2-4	74.8	8.2		-	246	-	8.2	-	-	-	-	5.6	-	-	-	-	<u>-</u>	0.6	305	-	305	001	0
7	1-2	69.2	15.4	•	<u> </u>	2.6	-	6.4	•		_	-	6.4	-	-	. •		<u> </u>	·	312	<u> </u>	312	100	٥
		70.7	ı			Γ													1		ı		· · · · ·	
	>4	70.7	0.4	-	1.5	-	-	4.6	·	8.2	2.1	-	3.4	2.3	-	-	 	0.2	1.5	525	-	525	100	0
2316A	2-4	77.8	2.4	Ŀ	ļ -	5.1	1.5	1.2		<u> </u>	-	-	8.1	3.0	•	-	<u> </u>	0.6	0.3	334	-	334	100	0
	1-2	72.8	4.6	-		10.1	3,5	2.0	•	<u> </u>	-	-	3.2	2.6	-	-	<u> </u>	1.2	<u> </u>	346	<u> </u>	346	100	0
	>4	66.2 4.7			Γ-	Γ_	I	Γ	ı	l	T	<u> </u>	T				· 		Ι.,	T		Ī	Ī	
4+B	2-4	70.5	 	-	<u>-</u>	4.7	6.5	6.5		15.2	0.5	<u> </u>	6.5	0.7	1.2	-	1.5	0.1	0.3	340		340	100	0
2317A+B	1-2	67.9	\vdash	-	-	11.8	4.9	3.6		-	<u> </u>	<u> </u>	2.6	-	1.2	<u> </u>	0.3	0.7	0.7	305		305	100	,
	<u> </u>		1	L	<u> </u>	1	***	L	<u></u>					<u> </u>	<u> </u>	l	1	14	14.7	122	1	122	1	L <u>`</u> _
ļ	>4	76.3 / -	6.4			_	_	9.0		3.2	0.6		2.6		_	_	_		1.9	156	·_	156	100	٥
A+B	2-4	54.7	23.7		-	2.4	15.9	0.3	-				3.0	-	-	-	-	-	-	333	100	433	76.9	23.1
2318A+B	1-2	55.7	19.4	-	-	14.4	7.2	1.8	-	-			1.5	-	-	-	-	-	-	334	619	953	35.0	65.0
٠.			4												* .		-							
. 1	>4	57.8 /14.:	1.0				-	6.9	-	17.2	0.5	-	1.0	-	1.5	•	-	-	-	204	-	204	100	0
2419A+B	2-4	61.4	16.1			9.5	11.0	1.4	Ŀ	Ŀ	_	Ŀ	0.6	•				<u> </u>	-	347	13	360	96.4	3.6
2419	1-2	57.6	13.1	_	<u> </u>	17.1	7.0	3.4	_	<u> </u> -	-	-	1.5	-	-		ŀ	0.3	<u> </u> -	327	61	388	84.3	15.7
		Y					,	,									,		1		.			
	>4	55.0 /9.7	 	<u> </u>	Ŀ	Ŀ	Ŀ	8.0	-	4.1	0.6	-	3.6	<u> </u>	2.3	-	0.6	0.9	-	701	44	745	94.1	5.9
2420A+B	2-4	70.1	15.1	<u> -</u>	•	3.1	5.2	2.5	Ŀ	-	-	-	3.1	0.3	-	<u> - </u>	0.6	<u> -</u>	-	324	-	324	100	0
75	1-2	75.6	6.0	<u> -</u>	<u> </u>	9.2	6.0	1.4	<u> </u>	<u> </u>	<u> </u>	-	0.6	-	-	-	0.6	0.3	0.3	349	11	360	96.9	3.1
		74.7	1	1	T .	 	Τ_	<u> </u>		т	T -	1	_		<u>. </u>	т	1	T	T	T	1	1,	100	١,
Φ	>4	74.7	-	-	-	-	┝	20.7 13.0	<u> </u>	<u>-</u>	-	-	1.6	-	0.6		2.9	 	+	174 371	2	174 373	99.75	0.5
2421A+B	2-4	<u> </u>	3.0	Ļ	_	0.5	3.4	.	-	-	-	<u> </u>	2.5	-	-	-	1.3	0.9	-	320	26	346	92.5	
	1-2	1 '6.2	1.3	1	-	10.3	٠. ٠	4.1	L	L	L	Ĺ	Ľ	Ĺ	L			Ľ	1			L	L	<u> </u>

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	>4	63.7 /4.7	0.1	<u> </u>	-	-	·	2.0	-	15.8	0.8	-	7.9		4.4	-		0.3	0.4	1674	7	1674	100	Ĭ.
2422A+B	2-4	78.3	-	-	-	5.3	5.8	2.9	-	-	-	-	5.5	-	1.3	0.3	0.3	-	0.3	379	3	382	99.2	0.8
242	1-2	82.2	0.6	-	-	4.8	2.5	3.1	-	-	-	-	6.2	-	-	-	-	0.6	-	355	29	384	92.4	7.6
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	>4	77.7 /5.4	-	-		T -	-	0.3	_	10.6	3.0		1.7	-	0.2				1.7	2168	_	2168	100	0
2423A+B	2-4	91.7	•	-	-	4.0	2.5	0.3	-	-		-	1.2	-	-	-	-	0.3	-	329	ı	330	99.7	0.3
242	1-2	88.6	-	-	-	3.2	5.8	0.9	-	-	-	-	0.9		-	-	-	0.6		344	11	355	96.9	3.1
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	>4	76.1 /1.4		-		-		5.6		2.3	7.5	_	4.2	1.4	-		_	_	1.4	213	_	213	100	0
2424A+B	2-4	88.9	0.3	-	0.3	2.9	-	2.0	-	•	-	-	4.1	0.6			0.3	0.3	0.3	343	2	345	99.4	0.6
ř	1-2	84.9	2.4	•	-	3.6	2.7	1.8	-	-	-	-	4.3	-	-	-	-	0.3	-	331	39	370	89.5	10.5
																				•		•		
	>4	69.6 /1.4	-	-	3.1	-	-	0.5	-	0.7	11.3	•	3.3	9.7	-	-		-	0.5	424	-	424	100	0
2425C	2-4	71.5	-	-	-	6.2	2.2	0.8	-	•		•	15.4	3.1	-	-	-	0.8		358	289	647	55.3	44.7
ř	1-2	79.6	0.6	•	-	12.2	1.2	1.7	٠,	•			4.4	0.3	-	-	-	-	-	343	1468	1811	18.9	81.1
ļ																								
	>4	\$3.8 /6.4	٠	-	-			8.8	0.2 Fish Scale	15.9	0.2	•	1.2	0.5	9.5	-	7	-	13.5	422		422	100	0
2426A+B	2-4	72.1	-	-	-	4. 1	12.5	6.7	-	-	•	•	2.6	1.7	9.3	-	-		-	344	-	344	100	0
٦	1-2	63.1	5.3	_	-	4.1	13.4	5.3	-	-	-		6.0	2.5	-			0.3		320	5	325	98.5	1.5
1																								
	>4	68.7 /9.2		-	-	-	_	18.3	_	0.2	-	-	2.3	-	0.2	,	•		1.1	563		563	100	0
24278		71.7	14.5	-	·	1.2	-	9.0		•	-	-	3.3	-	•	•	•	0.3	-	332	•	332	100	0
24	1-2	67.2	23.8	1.2	-	1.7	•	2.3	-	-	-		3.5			•		0.3		344	1	345	99.7	0.3
				<u>.</u>															. ,					
ı	>4	37.4 /2.4	-	-	-	-	-	0.4	-	-	4.4	•	0.7	44.0	0.4		-	tr	0.4	546	55	109	90.8	9.2
٨	2-4	41.0	-		-	37.1	1.3	•	-	-	-	-	4.6	15.0	-	-		1.0	•	307	-	307	100	0
2529 A	1-2	48.8	3.8	•	•	30.4	0.3	0.6	-	-	-	-	1.5	14.3	-	-		0.3	-	342	1	343	99.7	0.3
	>4	11.0 /3.7	-			-	•	-			1.8	•	-	82.2	0.6	-	-	_	0.6	163	_	163	100	0
٧	2-4	25.1	0.3	-	-	33.9	7.5	•	-	-	-	-	3.4	29.5	0.3	-	•	-		319	-	319	100	0
2530A	1-2	27.5	0.2	-	•	29.9	6.2	0.9	-	-	-		5.0	25.1	•	-	-	1.2	-	338	3	341	99.1	0.9
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6				€		35 A		<i>\$</i> \$\$	A C	AROLO (TV	* * * * * * * * * * * * * * * * * * *		1				∕ ♦	i	NO.			1		100	
	>4	11. /3.	ř	-	-	-	-	-	0.5	-	-	1.5	-	1.1		0.6	-	<u> </u>		0.1	2013 313	1	2013 314		0.3
2531B+G	2-4	25.	.2	-	-	<u> </u>	36.1	3.8	0.3	-	-	-	-	4.5		1.3	-	-	0.6	-	312	1	313	99.7	
1	1-2	31.	4 7	7.1	-		20.2	3.5	0.3					1.9	35.0			<u> </u>	0.0			•	,,,		\exists
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١	> 4 2-4	22		0.3	: _	-	46.1	1.6	-	-		-	-	5.9	23.5	-	-	-	0.3	0.3	323	-	323	100	0
25321	1-2	24	+	3.8		-	27.5	1.3	0.3	-	-		-	2.9	40.2	-	-	-	-		313	5	318	98.4	1.5
						<u> </u>	<u> </u>		<u> </u>				<u>.</u>				<u> </u>		<u> </u>	<u> </u>					
ł	>4	27 /3	.3	_		_			0.3	_	# 66.1	0.8	-	1.1	0.8	0.2		-		-	1465	-	1465	100	0
2533A+D	2-4	\vdash	+	0.3	_	-	55.9		0.3	-	-	-		5.2	5.2	0.3	-	-	0.6	-	308	1	309	99.7	0.3
253	1-2	54	.6	5.0	-	-	27.0	-	1.2	-	•	•		2.4	6.8	0.6		<u> </u>	2.4	<u> </u>	337	_	337	100	0
																	_			_		·		r—-	
	>4	30 /3	.2	-	-	0.1	-	_	0.3	<u> </u> -	48.7	0.2	-	0.9	14.4	1	<u> </u> -	ŀ	1.8	0.2	1233	71	1304	94.6	5.4
2534E+H	2-4	23	1.1	•	-		42.	6 0.3	0.5	. 0	0	0	0	1.9	30.8	0	0	l º	0.8	0	373	2	375	99.5	0.5
25	1-2	40	.7	17.1	-	Ŀ	23.	5 -	0.9		-	<u> </u>	<u> </u>	0.9	10.9		<u> </u> -	<u> </u>	2.0	<u> </u>	340	0	340	100	0
	,	_		ed I	eck 1	Fragm	ents T		т -	т	Τ	T	T .	Γ	T	T	Τ-	·	<u> </u>	Т-	т –	T	1	T	<u> </u>
(7	>4	/6 /6	9 7	-	<u>-</u>	-	ŀ	<u> </u> -	42.	╁	-	<u> </u>	-	0.2	0.3	-	\ <u>-</u>	+	0.3	1.7	369	+	369	100	0
2535C+G	2-4	5	\dashv	1.1	<u> </u>	Ļ	1.1	┼-	40.	┼	<u> </u>	Ŀ	-	0.8	0.3	-	+	+-	+	-	318	+	318	100	0
	1-2	5:	2.8	21.7	0.3	<u> </u>	<u> </u>		24.	9 -		<u> </u>				<u> </u>	<u> </u>	_L_	<u></u>	<u> </u>	<u> </u>	<u>i_</u>		1	L
	- 4	6	3.9		1	Т	Τ	T	T	0.5	Τ	T	Τ.	0.5	Τ.	1.8	T.	Τ.	Τ.	T -	391	1.	391	100	0
I	>4 2-4	<u> </u>	10.0		-	╁	1.	+	8.7	 	<u> </u>	+		2.1		1	1-	+-	+-	-	332	+	332	100	0
2536A+H	1-2	\vdash	8.6	9.4	\vdash	+	0.:	+	3.4	+-	-	1	+	0.6	-	†-	†-	1.	0.6	+	327	1	328	99.7	0.3
	-	1.	9.0	35.8	0.3	1	1 %	<u>'</u>	1 /		<u> </u>		<u>.</u>					ــــــــــــــــــــــــــــــــــــــ				<u>.</u>	- 		
	>1		1.1 2.5	_	Γ.	Τ.	Τ.	Τ.	8.	1 -		0.3		-	Γ		-	-	-	0.8	397	-	397	100	0
ې	2-4	. H	19.5	-	-	†		†-	9.	3 -	-		·	0.3	-	-	-	0.9	, -		334	-	334	100	٥
2637B+G	1-2	: -	78.5	1.3	† -	1	-	1-	19.	2 -	1-	-		0.7	-	-	-	0.3	3 -	<u>]</u> :	312	1	313	99.7	0.3
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	>4	1	67.5	-	-	T.			22.	5 Bon	0.	3 0.	, -	0.7	_			<u> </u>	<u> </u> -	<u> -</u>	302	<u> </u>	302	100	0
7.48£.0	2-4	• [80.0	-					15	0. Pell		<u> </u>		0.6	<u>.</u>	<u> </u> -	-	3.	<u> </u>	<u> -</u>	330) -	330	100	U
36.36	1-2	2	74.2	_	_		. [. 0.	3 24.	3 -	_	_				<u> </u>	-	0.	6 0.	6 -	333	, -	333	100	0
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9	2-4	4	96.8	0.3	·	<u> </u>	-	- •	.3 1	.3 -	1-	<u> </u>	-	1.	<u>٠</u>	<u> </u>	1-	╬	+	+-	+-	+-	+	+-	+
,	¶ 1-2	2	90.0	0.0	6 .	-	-	- 1	.3 7	.2 -	<u> </u>	<u> </u>		0.	<u> </u>	<u> </u>	<u> </u>		<u> </u>	Ŀ	32	° -	320	100	٥

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ſ	>4	90.3 /5.0	-	-	-		-]	2.4	-	-	0.3	-	0.4	0.8	0.1	-		-	0.7	1341	-	1341	100	0
2640G+H	2-4	97.0		-		0.3	-	0.6	-	-	-	-	2.1	-	-	-			-	328	-	328	100	0
7640	1-2	92.9	-	-		1.6	0.9	1.2	-	-	-	-	2.2	0.6	0.3	-	-	0.3	-	323	7	330	97.9	2.1
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Ì	>4	85.6 /4.8		_	:		-	7.7	-	-	1.0	-	-	-	-	-	-	-	1.0	104	-	104	100	0
Ŧ	2-4	96.4		:_		0.9	_	1.8		_		-	0.6	-	-	-	-	0.3		334	-	334	ίθυ	0
2641E+H	1-2	94.0	1.0		│ -	0.6	0.3	2.8	_			,	1.0	-	-	-	,	-	0.3	317	1	317	100	0
		71			L							•												
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H	2-4	/12.6 94.7	<u>-</u>	-	-	0.3	-	3.1		-	0.4	-	1.9	-		-	-	-	-	322	-	322	100	0
2642G+H	1-2	89.5	0.9	 _ -	-	0.6	-	3.0	-	-	-	-	5.4	0.6	-	-	-	-	-	334	2	336	99.4	0.6
			<u> </u>	<u> </u>		<u> </u>	<u> </u>					<u></u>		-							1			
	>4	50.5 /8.3			1	T		2.1	_				4.9	31.8	1.5			0.6	0.2	471	_	471	100	0
_	2-4	16.3	Ë	-	 -	48.0	12.8		•	-	-	-	4.4	16.6		-	-	1.3	-	319	-	319	100	0
2643D	1-2	10.3	11.6	 	+	50.0	┼	0.3		-	-	-	2.9	16.5	0.3	-	-	0.7	-	310	ī	311	99.7	0.3
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	54	71.0 /4.1		-	Τ.	Τ	Τ.	0.2	Г <u>.</u>	71.0	1 -		4.6	.*	1.5	_	-	0.2	0.2	458	-	458	100	0
	2-4	19.6	╁╌	┪	+	59.	╁	-	<u> </u>	-	<u> </u>	-	5.2	12.0	0.6	1-	1.	2.5	1	326	۱.	326	100	0
2644B	1-2	-	-	╁	╁	41.	╁	╁		 	-	 	1.0	╁─	 	<u> </u>	1.	0.3	<u> </u>	319	T -	319	100	0
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APPENDIX IV

Excerpt from 1974 Final Report

CHARACTERIZATION OF CARBONATE SAND* FRACTION FROM MAFLA AREAS I, II, AND III.

by

Harold R. Wanless and Jeff Dravis

General Characteristics

Bottom sediments in MAFIA Study Areas I, II, and III are dominated by carbonate in the sand fractions (>62 micron material). Where non-carbonate material is present in significant amounts, it increases in abundance in the finer sand fractions (see carbonate: non-carbonate block composition diagrams, Appendix VII).

Mollusk and shell fragments are the predominant grain type in all size fractions (>2000, 2000-1000, 1000-500, 500-250, 250-125, and 125-62 microns) in nearly all samples (see carbonate sand constituent block composition diagrams, Appendix VI). All other grain types show large variations in abundances either between areas or within areas.

Skeletal grain types tend to predominate in that size fraction associated with the size of the unbroken grain or the physically stable fragment and decrease in abundance in finer sand fractions. That is, the mollusk shell grains decrease in abundance from the coarser to finer sand sizes (from whole to fragmental). Bryozoan fragments, <u>Halimeda</u> plates, and echinoid plates and spines show a similar distribution. Ostracod tests, sponge spicules and alcyonarian spicules occur only in the finer fractions.

^{*} Included in this study are skeletal and non-skeletal calcium carbonate grains and also opalline silica sponge spicules, friable grain aggregates (fecal pellets and intraformational conglomerate - intraclasts) and limestone rock fragments.

Non-skeletal grain types show a less predictable size distribution.

There are commonly less unidentified grains in the finer sand fractions.

This is a sharp contrast to the trends of shallow water carbonate sediments in southeast Florida and the Bahamas. The abundance of unidentifiable grains in the coarser fractions appears to reflect more intense rock-boring organism activity into coarser sand grains.

The maps documenting distribution of the carbonate sediment attributes (see Appendix No. IX) summarize most accurately variations between samples and areas. From these maps, three important features stand out:

- 1) In the size fractions greater than 500µ, there is large variation in grain type abundance between samples that reflect variations in substrate (rock vs. sediment) local abundance of skeletal producing organisms, local fecal pellet production or local intraclast formation. Grouping of these attributes commonly cut sharply across bathymetric contours.
- 2) In the size fractions less than 500 microns, variations between samples commonly either decrease or display groupings that trend more parallel to the bathymetric contours. These distributions indicate that bottom wave and current energy has been important in redistributing the more transport prone finer sediment fractions.
- 3) Weathering characteristics of a grain type displays a quite different distribution pattern than the abundance of the associated attribute (see maps of Mollusk and Mollusk Weathering in 2000-1000 micron size fraction, Appendix IX).

Weathering reflects substrate character, degree of grain exposure, time that grains spend at the surface, transport character, accumulating: relic lag surface.

AREA I

Carbonate constituents comprise nearly 100 per cent of the coarser than 250 micron sand fractions in Area I (samples 55a to 65a). Terrigeneous material increases in the finer fractions so that the 125 to 62 micron fraction is reduced to 60 to 80 per cent carbonate.

Sample 55a, from well seaward of the other sample sites, is unique from this area in having: (a) a large percentage of less than 62 micron sized grains, (b) an abundance of fecal pellet grains (over 30 per cent in the 500-250 and 250-125 micron fractions), and (c) an abundance of pelagic foraminifera.

Other samples are dominated by mollusks and benthic foraminifera.

Other skeletal grains display a wide variation and show few persistent trends from sample to sample and in different size fractions.

Samples from Area I contain several grain attributes that provide a striking contrast with samples from Area II. Most striking is the weathering of coarse skeletal grains. In Area I, for example, coarse mollusk grains are predominantly fresh (unworn), fresh and angularly fragmented, or fresh and physically worn in contrast with the biocorroded and encrusted nature of grains from Area II. Bryozoa, coralline algae, and alcyonarian spicules are in general less abundant in Area I; benthic foraminifera and intraclasts are more abundant in Area I. The per cent of the carbonate sand fraction that is greater than 250 microns increases from Area I to Area II (except for samples 62a and 55a).

AREA II

Carbonate sands from Area II are dominated by mollusks, and the coarser skeletal fractions are characterized by moderate to intense biocorrosion and encrustation. Thirty to 97 per cent of the carbonate sand fraction is coarser than 250 microns (except for sample 52a from the southeastern part of the area with 17 per cent). Terrigeneous constituents are more abundant in the less than 250 micron fractions. They constitute less than 15 per cent of these finer size fractions in the southern part of Area II (samples 44a, 45a, 47a, 48a, 52a) and from 20 to 50 per cent in the northern part.

Coarse skeletal grains vary widely in abundance reflecting marked variations in substrate and skeletal producing benthic communities.

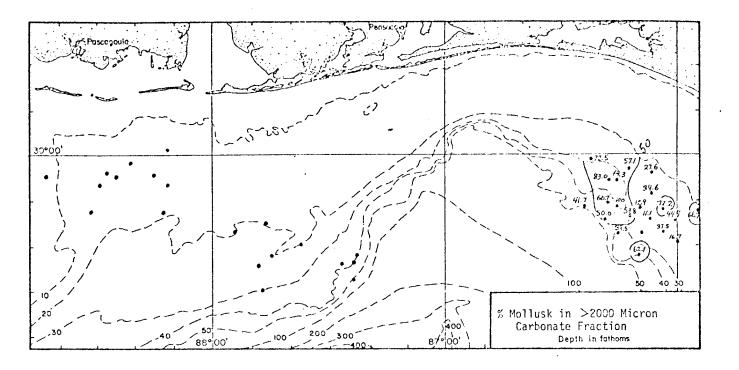
Samples from the middle ground proper (42a, 46a, 47a, 48a) contain an abundance of bryozoan, echinoderm plate, alcyonarian spicules or sponge spicules and are low in blackened carbonate grains. Certain of these grain types are also abundant in adjacent areas, but blackened carbonate grains increase. Benthic and pelagic foraminifera display wide variation. Although this area is characterized in the literature (Ginsburg and James, 1974) as having sediment characterized by coralline algae, such fragments are only a very minor grain constituent throughout the area.

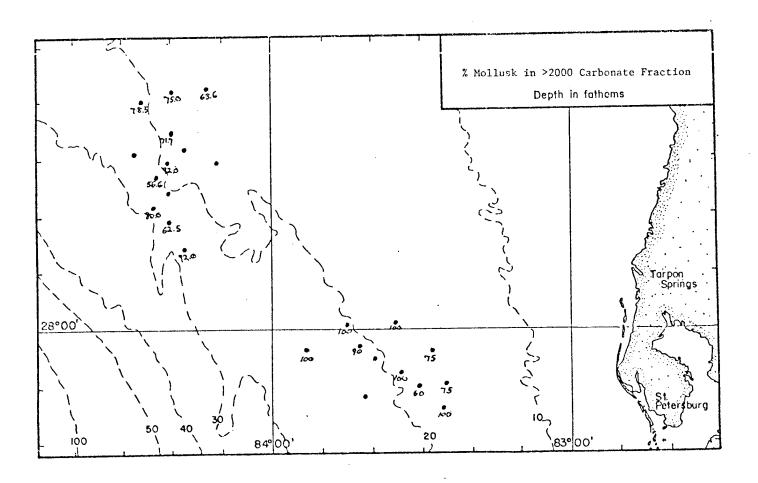
AREA III

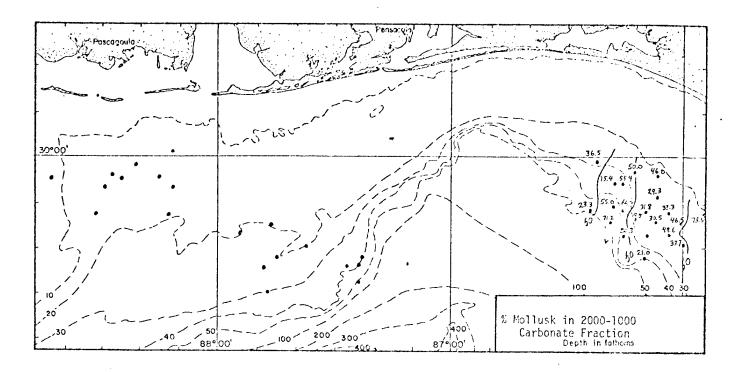
The most helpful way to understand the marked variations in sedimentary attributes within Area III is to thumb through the maps of sediment attribute distribution in Appendix IX. Four important trends stand out:

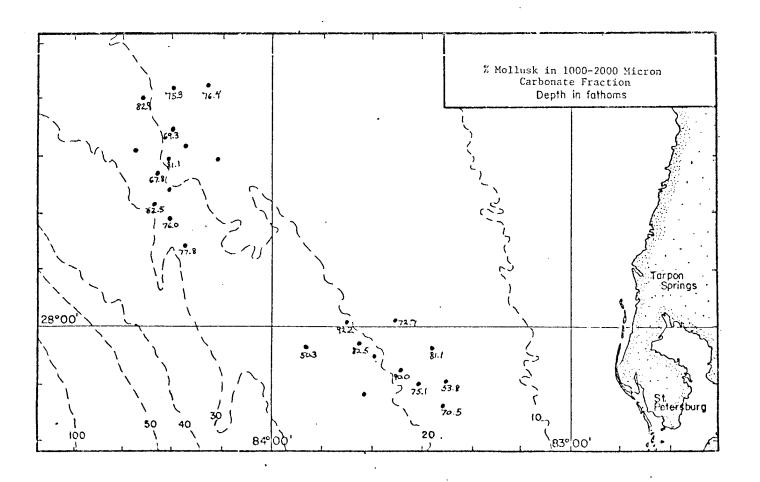
1) The abundance of carbonate constituents within each sand size fraction increases to the west. In the coarser fractions the

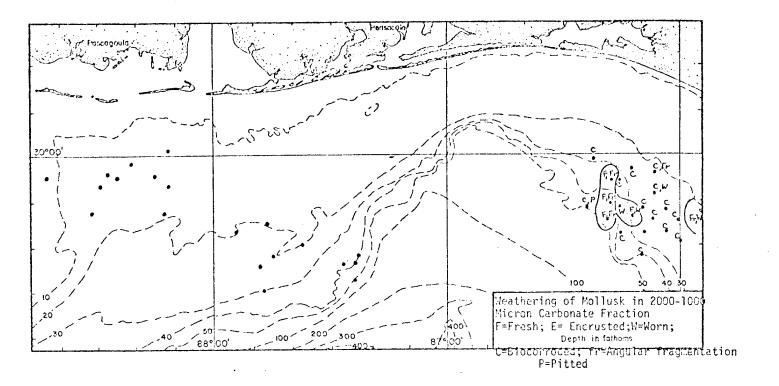
- zones trend across bathymetric contours. In finer sand fractions, zones skew and begin to reflect bathymetric contours.
- 2) Groupings of coarse carbonate constituents trend transverse to bathymetric contours. Specific grouping shifts somewhat from attribute to attribute. Five stations repeatedly stand out as differing from others, samples 23-25 and 27 trending across the central part of Area III and the easternmost sample 41a are characterized by having a small percentage of the carbonate sand fraction greater than 250 microns, having an abundance of mollusk, (fresh and angularly fragmented), echinoid and pellet grains, and a paucity of bryozoan, coralline algae, and blackened carbonate grains. Stations 25a and 27a, sitting in a slight bathymetric re-entrant, are rich in pelagic foraminifera. Stations 34a 38a are characterized by an abundance of coralline algae grains.
- 3) Groupings of attributes shift markedly in finer sand fractions to essentially parallel bathymetric contours. This is especially apparent in % carbonate, mollusk, benthic foraminifera, and echinoderm.
- 4) Ostracods display a somewhat different distribution pattern, being present towards the west and absent towards the east.

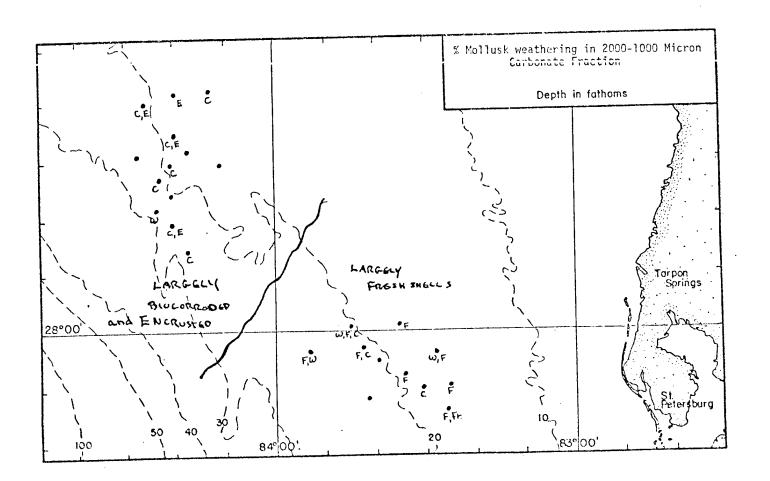


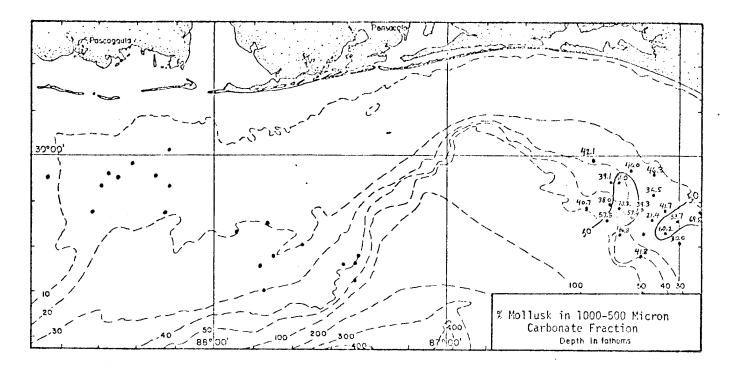


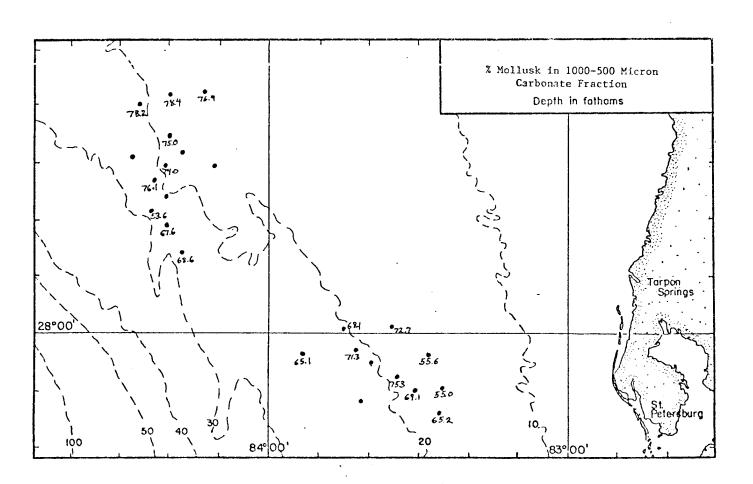


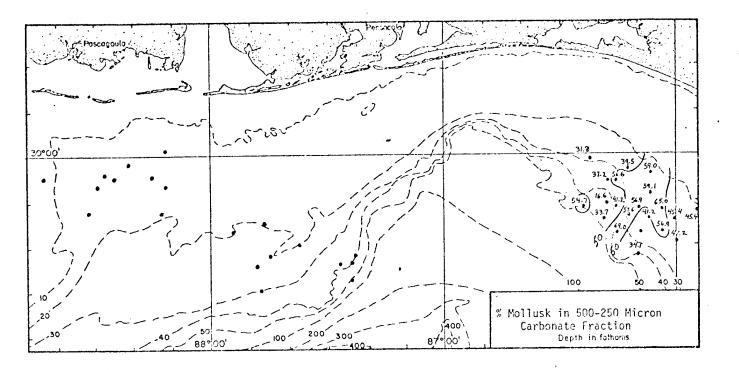


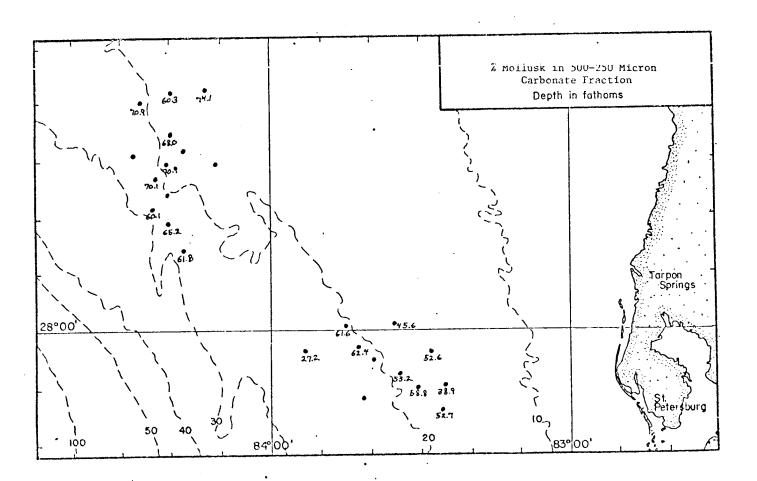


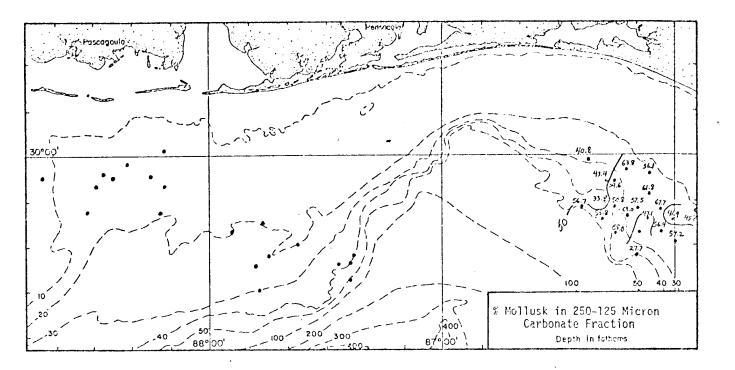


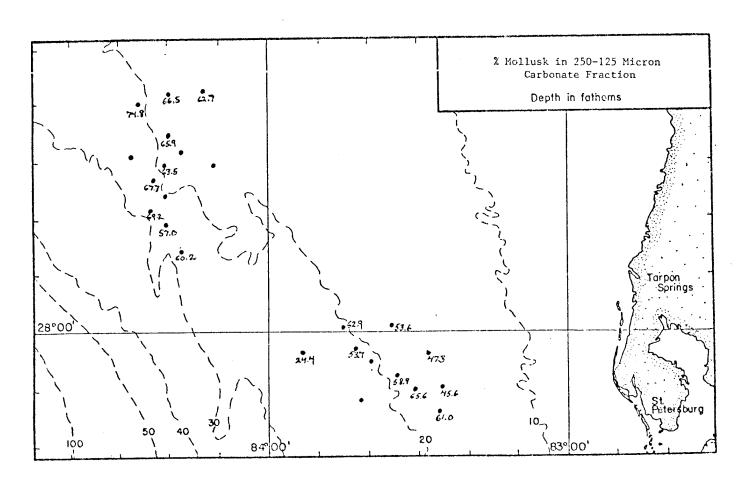


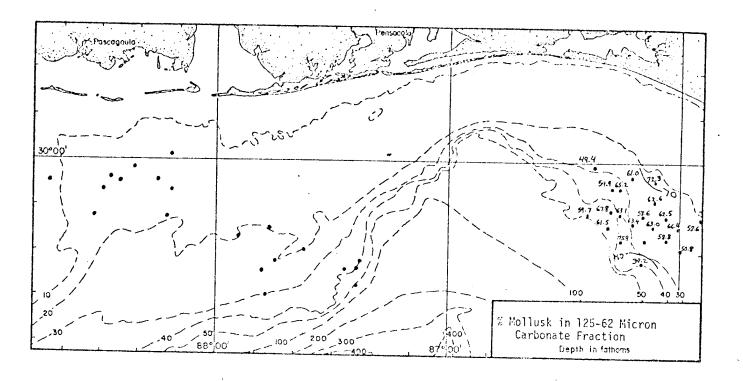


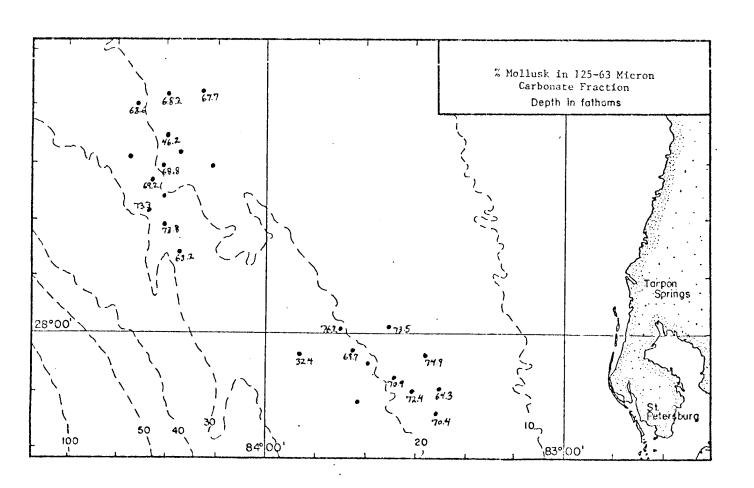


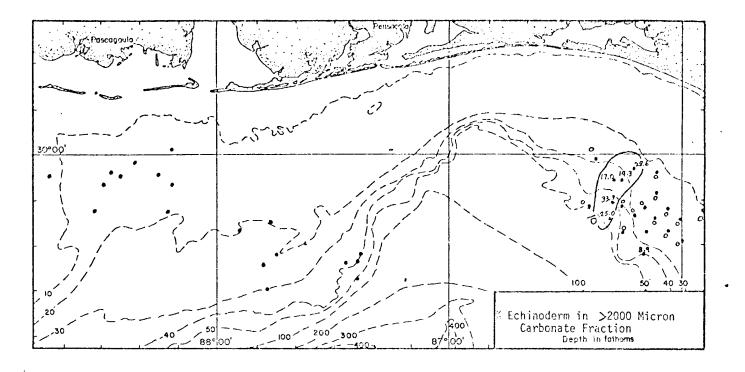


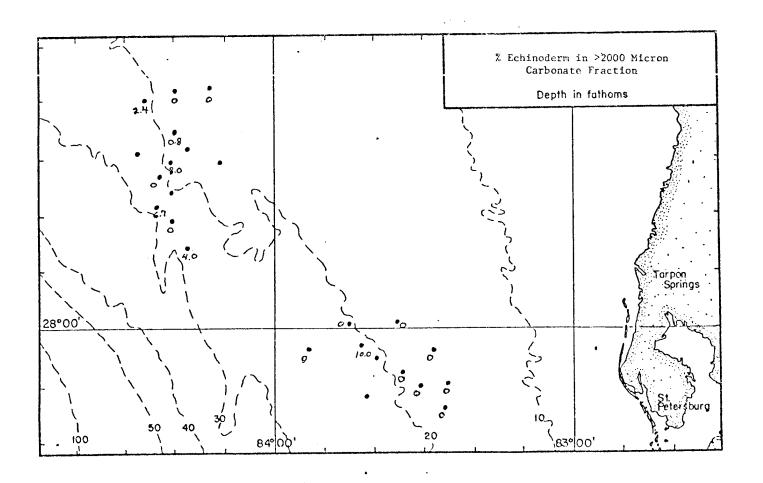


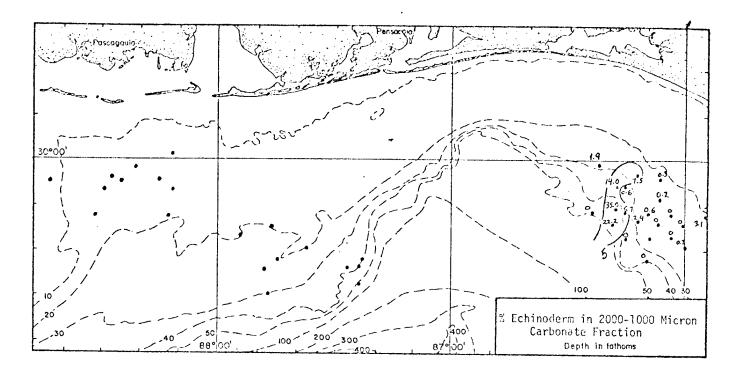


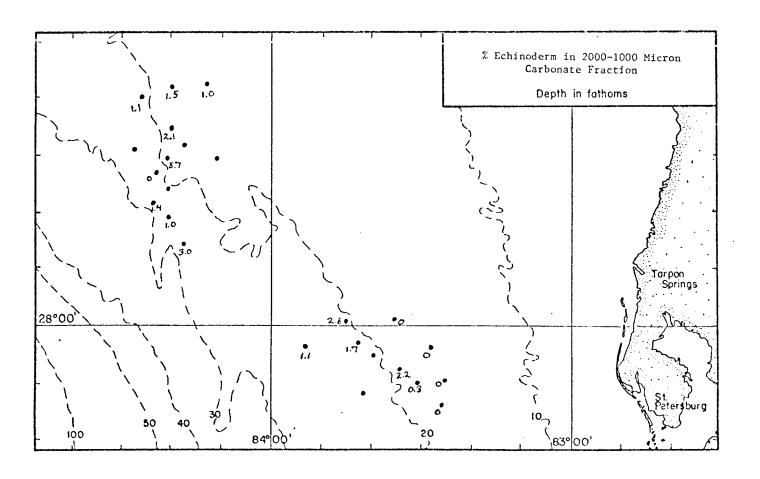


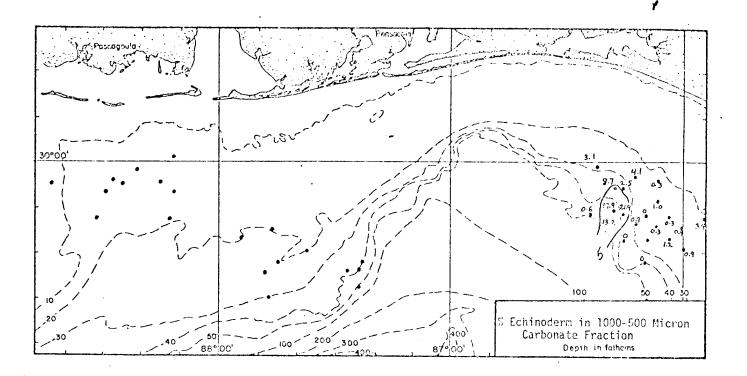


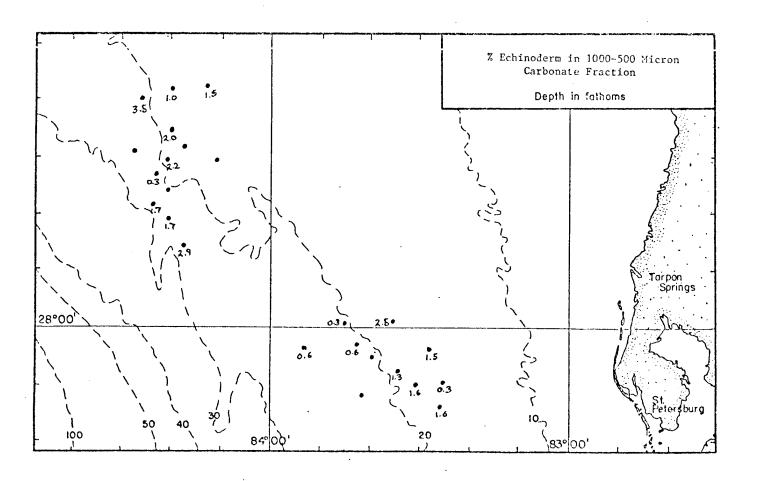


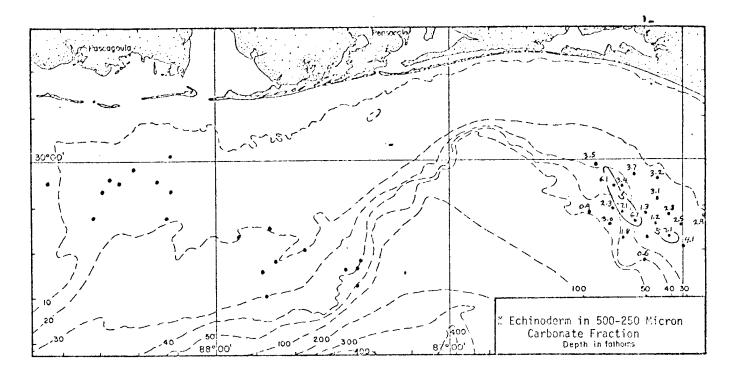


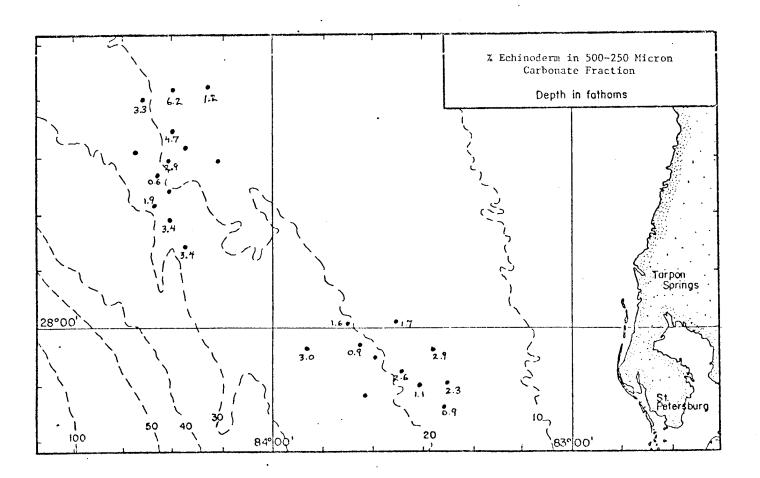


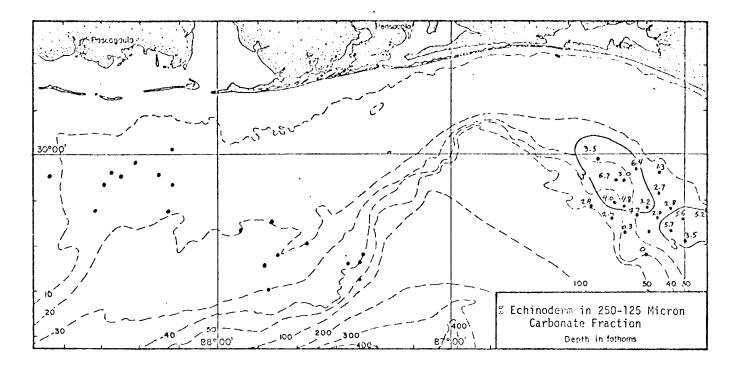


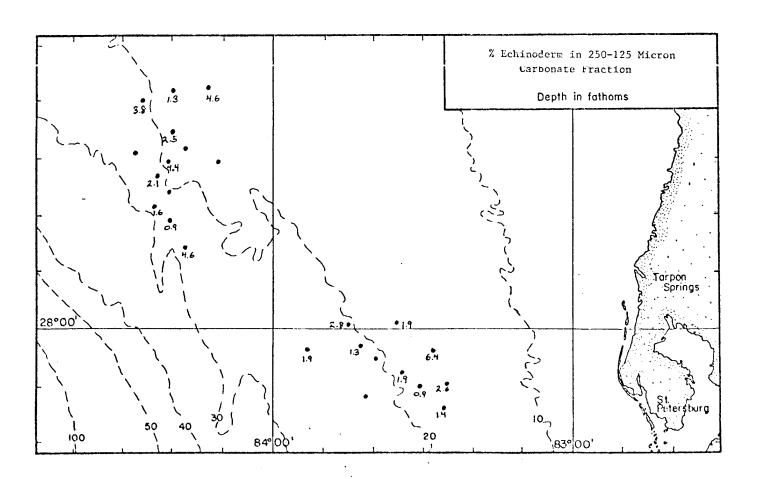


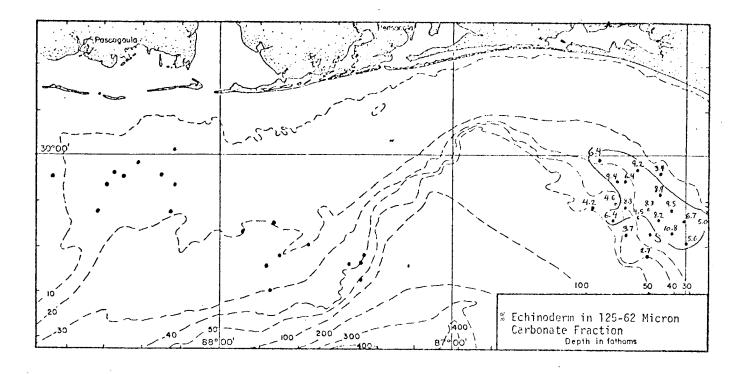


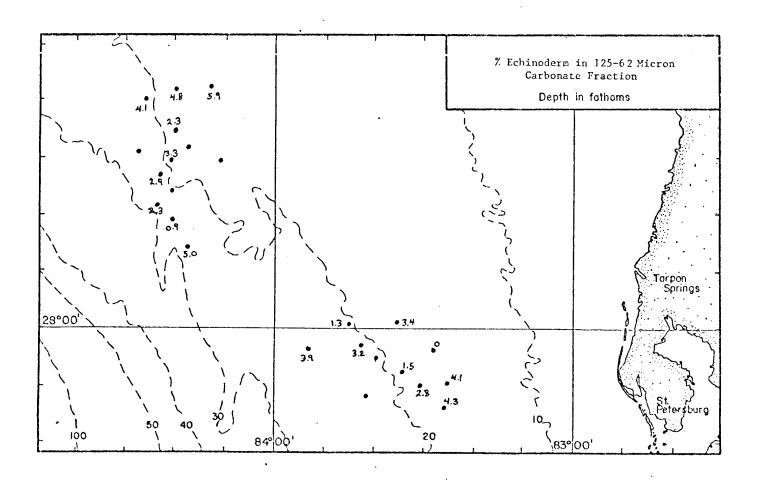












APPENDIX V

Molluscan Lithotope Analysis

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		Telli Sim	no.		"FF	din"		Cardi	omya	·	Semo	1/6-		Mace	ma	******	LUCIN	a,		Lime	2 ,		Curpic	garia	:
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nworn	3		0.5	0.5	1.0		1.0	1.0		1.0	1.0		1.0				16.0	8,3	24/3	2%0	1.8	25.8	65.0	5.0	90.0
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2422 A Whi Frg Whi Frg S Wal Fra 53 & Well Frg E Whi Fre & Whi Frg Whi Frg Whi Frg Macrocallista Maculata Corbula. Chama Plicatula gilibosa Anomia " Pectin Abra Arca acqualis congregata Krebsjana zepra Simplex 920 65105 PI 90 - 68 8.0 45 12.0 120 90 -40 45 101 0.8 aworn B En 201 B forn Εn Laevicardium Anacara Semele. Kellina Chiorie Corbula Chione Linea cancellata bellestriata acquistriata mortoni bayahmani pygmaea amiatus PI 3.0 0.3 3.3 10 20 1.0 1.0 3 nworn 71 0.5 15 35 9.01 1.0 1.5 9.5 341 44 1.0 3.0 3.0 20 1.0 1.0 forn 1.0 1.6 3.6 1.0 2.0 Ξn Lucrassatella SOSSIOSO 134 3 nworn Σn Pi 1.0 1.0 3 forn. In Ind. - smooth or Indeterminant Indeterminant Indeterminant Indeterminant growth line cancellate radial concentric [3] 1.6: nworn 3 5.n 4.3 03 03 193 19.3 2.4 2.4 4.3 0.3 0.3

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		Cort	bula.)	"Pectin"		"	Chama congregata			Chione Dygmaea.			Semele bellestriata			Laevicardium nortoni			Tellina peyvistriata						
	PI	16.0	3.0	19.0	11.0	6.1	17.1	5.0						3.0	1.5	45	-		4.0	2.0	0.5	2.5			2.0	
Jnworn ———	3							1			 						7.0	1 0.0	 	1 7.0	0.5	2.3	1 2.0	 -	7.6	
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Worn	8				1						 						}		 	 			ļ	 	 	
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		Macri	Macrocallista			Tellina Lineata			Lucina			Plicatula gibbosa			Pitar Simpsoni			Chione cancelluta			(2014)					
	1=:		y/ata		Line			rac	dians		9,6	2359		SIM	Dsoni	,	cano	ellut	a	diet.	ula Ziana		Arce	<u> </u>		
	P!	1.0	0.4	1.4		1.0	1.0		0.5	0.5	8.0	0.5	8.5	2.0		2.0	1.0	0.5	1.5			į				
Jnworn	*					ļ																				
	En			<u> </u>												Í	-	0.5	0.5							
Norn	PI										2.0		2.0	2.0	_	2.0	_	3.1	3.1	4.0	0.8	4.8		1.5	1.5	
	B																_	2.3	··	1						
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·		Chio	ne Tirat		Track	ycaro	lium					· · · · · · · · · · · · · · · · · · ·														
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		Indeterminant				Indeterminant growth lines			radial radial			cancellate														
,	FI		1.9	1.9		0.3	0.3		0.8	0.8		0.1	0.1													
nworn																										
	En									-												i				
			1.3.4	13.4	_	0.4	0.4		5.6	5.6	-	2.9	29		0.1	0.1									\dashv	
Yorn	7		6.5	6.5		6.5			0.3	0.3		0.5	0.5		0.4	0.4										
	En		0.6	0.6	_	0.4						1.3	1.3		0.5											
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2423 A

		2423	A																						
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		Anoi	nia		Sem	ele,	ata	Jova	nneti		Arco	3 era		1110	ne	00	Nucu	ı/a			iolus			curto	
lnworn	?। ड	3.0		30	4	1.6	i .		2.0	2.0			1.0	1.0	<u> </u>	1.0		ime -	1.0	1 /	0 m cs		1	0.6	
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Vorn	PI																			<u> </u>					
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	PI	ľ	e Irata		1			aca	valis	·	mor	teni	······································	Cer	ina	·	ļ	ctin"	·	bell	ic estria	/ a	Dasi	na jans	
nworn		_	0.1	0.1				3.0		3.0	1.0	20	<i>3.0</i>	8.0	0.5	8.5	3.0	4.8	7.8		1.3	1.3	- '	0.4	0.4
······································	En	2.0	_	20										1.0	_	10		1.8	18	_	1.0	1.0			
∀orn	F :		0.1	0.1				1.0		1.0	-	1.6	1.6	8.0	1.5	9.5	·	8.6	8.6	1.0	29	1.9		0.5	0.5
	Εn	1.0	1.4	2.4				1.0	-	1.0		0.6	0.6	12.0	5.0	17.0	5.0	2.8	2.8		24	2.4		0.1	0.1
						· · · · · ·						<u> </u>		-/				المعاشدة	an's dealer in a		لمكتشكمسا	بــ/نــ	·	<u> </u>	<u> </u>
		(ored Kreb	via siano	?	Telli	na cata		Mace	ocall	išta ,	Ling	a. iatus	S	Anag	Jara	ani	Chic	ne male	à	Cha	ma regat	a	Pince	tuia 1050	
nworn	ନ ଜ	10.0		10.0	3.0		3.0	_	0.3	0.3	1.0		1.0		0.5				2.0		04	0.4		1.1	1.1
	ī,										1.0		1.0				-								
	Pi	16.0	1.5	175				_	0.5	0.5			2.0	40	7.5	11.5	5.0	7.5	7.5				_	01	0./
forn	B En										,				0.3	0.3									
	en j	17.0	1.8	18.8		0.5	0.5		0.3	0.3	6.0		6.0	4.0	7.0	11.0	6.0	2.0	8.0	3.0	0.9	3.9	30	1.3	4.3
		Chio			Glycy	meru	, s	corb.	1/a		Νυςυ	Tana		Diplo	o don	Fa .		meru		Arei	nella		Cyclo	cardi	rå
	P.	can	<u>e11a</u>	Ta				410	Fziar	12	Nerr	, Ilia.	na	2.0	_	2.0		lana		COST	7259		300	nilla	
nworn	2																								
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/orn	<u></u>	_	20	20	1.0		1.0				1.0	0.5	1,5				1.0		1.0		0.5	0.8		0.8	0.8
	Ξn	-	1.0	1.0	2.0		20	2.0	0.5	2.5	1.0		1.0					i			0.5	6.5			

2423 A (CONTINUED) Whi Frg & Whi Frg S Whi Frg S Whi Frg & Whi Frg S Whi Frg S Whi Frg Eucrassotella Handora arenosa 50001050 PI nworn B En 01 0.8 0.8 0.5 0.5 Vorn **V**'7 In Indeterminan nworn 5 En P1 15.4 15.4 3 Vorn 5.0 P! nworn 3 FI Yorn ß Zn. PI Inworn B Zn Yorn En

2423 B

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		Whi	irg	18	Whl	Frg	<u> </u>	MPI	Frg] <u> </u>	Mbl	Fra	E	Whi	Frg	ξ.	Whi	Frg	ş	Whi	Frg	7	Whi	Frg	€
		Pano are	lora		Lim	a		Tel1	ina eata		Att	ina		7500	hycaro	dian	Chio		 	Chio	ine ilirat	<u> </u>	Chio.	ne ellata	
	PI		0.5	0.5	-	0.5	0.5		0.5	0.5	· 1	0.4	0.4		0.1		4.0		45	,	0.5	05	-	0.6	0
worn	3																			İ					
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	<u>P1</u>	ļ			ļ												4.0	1.0	5.0		0.1	0.1		0.3	0
rn	B	ļ			<u> </u>	ļ		<u> </u>			<u> </u>						<u> </u>			ļ					ļ
	En	L	لـــــا		<u> </u>	1		1	J	L	<u> </u>						20	2.3	43	<u>{</u>				0.6	0
		Glyc	y merc	<u>, </u>	Fita			Core	bula		Corb	ula sjan		Laev	card.	רמטי	Maci	ocalli	sta	110			Apad	ara	
	PI	72.0	nato	2.0	,,	pson			12100		E	i		12261	-tone	, ,	Ina	cular	1-0	1	Ctin	·	000	gAm	
worn	3	1 2.0		7.0	 -	0.5	0.5	1.0	 -	1.0	2.0	1.0	3.0		0.3	0.3		0.3	0.3	1.0	1.6	2.6	1.0	0.1	
	En				!	<u> </u>		 		 	 						<u> </u>				0.1	0.1			-
	501	1.0	_	1.0	-	0.5	0.5		1.0	1.0	5.0	0.5	5.5		0.5	65	<u> </u>			-		0.8	7.0	5.8	10
rn ·	2				1			<u> </u>									1			į					<u> </u>
	Ξn				_	1.0	1.0				6.0	1.0	7.0	_	0.1	0.1	-	0.5	0.5	_	3.8	3.8	-	0.4	6
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	En.						ļ												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	PI	2.0	1.0	3.0	6.0	0.5	6.5	4.0		4.0	4.0	1.0	5.0	1.0	0.3	1.3	1.0	-	1.0		<u> </u>			<u> </u>	
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	50	1.0	0.7	1.7	6.0	1.5	7.5	5.0		5.0	<u> </u>				İ		<u> </u>			1	ļ		L	نــــــا	
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2424 A

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	3	Enis			Chio	00		120-i	aluat		F 7-77.	00													
		min	1		latil	ne irata		Jist.	glypto cri	~	Jelli	ata		ma	ocalli culat	La	"Pec	40	1	Corbu	1100 51000		Loevi		
	PI	1.0	1.4	24	1.0		1.8	1.0	0.1	1.1					0.8		20	2.3	93		0.5		·		1.0
nworn	3																								
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2424 R

		2424	В																						
		श्रका	Frg	G	Whi	Frg	3	Whl	Frg	E	Whi	Frg	£.	Wat	Frg	*	12751	Fig	%	WH	Frg	15	Whi	Frg	Ş
		Serre	ic Striat	10	HICH	nello_ ivta			tin"					Transe			Priar			Enis mu			Bigg.		
	PI	1.0	_	1.0			10				9.0	0.5	9.5	1.0	0.5	1.5	1.0		1.0	-	6.8	0.0		25	0.5
Unworn	<u></u>																1					-			
	Sn																Ì	1			}				
	[7]				 	<u> </u>					1.0	-	1.0							!					
Worn	B En				ļ				0.1	0.1															
	En		ـــــا		<u> </u>	<u> </u>	<u> </u>		0.3	0.3		1.5	1.5	1.0		1.0	3.0]	3.0		0.1	0.1	1.0		10
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-	FI					<u> </u>			i								}			<u> </u>	1		<u> </u>		
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2425 C

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		Whi	Frg	Æ	Whi	Frg	Æ	Whi	Frg	系	Whi	Frg	TK.	Wite I	Frg	Æ	Whi	Fra	15	Whi	Frg	Œ.	Whl	Frg	2
		Cha	ma		Vent	nioli														1					
		600	grego	ita	ruge	tina		inta	purp	ea.	anne	rica	06.	mor	toni		Goule	ava 7.a		11/	Post in	"	per	emus <u>plane</u>	a
	PI	2.0		2.0	1.0		1.0	1.0		1.0		0.3	0.3	2.0		20	3.0	-	3.0	14.0	1.1	5./			1.0
Unworn	I				<u> </u>						l			<u> </u>		<u> </u>	<u> </u>			<u> </u>					
	En													1.0	1.0	20		0.3	0.3						
	Pl				<u> </u>	<u></u>		<u> </u>		ļ	<u> </u>										1.0	1.0	<u> </u>		
Worn	B				 	ļ								ļ		ļ	<u> </u>	ļ			<u> </u>			<u> </u>	<u> </u>
	En		LJ		<u> </u>	<u> </u>					<u> </u>			<u> </u>	0.1	0.1				<u> - </u>	0.5	c.5	2.0		20
		Chic	lirati		Glyc	mer	25	Chic			<u></u>	/	./-	PHar	<u></u>		Ch101	ne		Lucir	74		Seme	ve,	·
	PI	1.0				1	1.0	{	1		Tran	SPNP1	<u>/a</u>	5100,	1000	<u> </u>	PYG	maca	<u> </u>	rac	jans		2011	55. fr. 12	272L
Unworn		7.0	0.3	/.3	1.0	1	7.0	 		-	<u></u>	 					<u>-</u>			 				<u> </u>	
	En					 	 	 	<u> </u>	 	 	 	<u> </u>	<u> </u>	1	1	<u> </u>		<u> </u>	<u> </u>	-		<u> </u>		
·	77:	2.0	0.1	2.1	20	1.0	20	70		2.0	<u> </u>	<u> </u>		1.0	-	10				1.0			1.0	 	1.1
Wern	3		0.7	_ <u> </u>	7.0	1-1.0	3.0	7.0	i	7.0		1	 	1 /. 0	 	7.0	 	 -		7.0		1.0	7.0	0.7	7.7
	Ξn		0.0	1.0		 		Ì	 	 -	2.0	 _	70	-	05	15	1.0	<u> </u>	10		 			 	
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Jnworn		1.0		1.0	ļ	ļ														2.0		2.0		0.1	0.1
	En	1.0		1.0										1.0		1.0	1.0		1.0				-	10	1.0
	[2]				ļ	ļi														1.0		10		19	1.9
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	•	2544	В																						
		Wal	Frg	Z	Whi	Frg	Z.	Whi	Frg	S.	Whi	Fig	Æ	Whi	Frg	35	Wal	Frs	5	१४५।	Frz	Ş	Wal	Frg	€
		Arcop	25/S. 25/S.		ring	a omv	a	Nem-	ocaro turn	10m	60-6	ula Tzian	a .	Abra	salis		Chice	ne		Pitar	0500		Lime, Sult	ana	· · · · · · · · · · · · · · · · · · ·
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	PI	16.0	-	16.0	-	0.5	0.5	17												<u> </u>	<u> </u>				_
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	ξn	10.0		10.0	<u> </u>	0.3	0.3	<u> </u>	0.3	0.3	<u>'</u>	0.3	0.3	<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u></u>		<u> </u>			L
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	₹.n	2.0	1.5	3.5				<u> </u>	<u> </u>	<u></u>	<u> </u>	<u> </u>]			<u> </u>	_			J		J		<u> </u>
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2645 B Whi Frg € |Whi | Frg | 97 Whi Frg Whi Frg 3 E Wh! Fra 7 Wal Frg & Whi Frg ₹ Wh! Frg & Nucula Astarte Plicatula Glycy nerus subtilis Gouldia Nemiceardium crenulata "Pectin" peramabile Transenella nana cerina Pi 1.0 -1.0 -1.0 -40 03 43 30 -161 1.0 Unworn Ξr 1.0 1.0 0.5 0.5 bi 23 Worn 40 1.8 5.8 13.0 2.0 15.0 1.0 34 44 20 2.5 2.0 Ventricolaria ruantina Dosina elegans 2 15 Inworn 121 13 Norn Ξn Indeterminant Pi 3 inworn 731 C Norn 0.3 0.3 2.5 25 Inworn 3 £n 13.1

Worn.

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APPENDIX VI

Summary of Molluscan Lithotope Data

	1	MILE	F	مب	20/2-2	2*	سِر	30/1-1	-	تعبير	¥025.8	- 1	-C'	2778 1		F 100	5250. 1		, and	2011 1	7-	<u> </u>		_	
		10111	<u> </u>	42	88331	rrg	<<	12131	res :	£25,	- C.174	rrg]	*2)	50 371	red (e.;	Wid	* F %	•	26121	273	4.	84 W !	rrg	
		21	01C		210	01Ē		21	02B		21	02G	.	21	0313		21	03H		21	04B		210)4H	
	PI	32 c	14.9	46.9	16.0	8.7	24.7	16.0	5.6	21.6	13.0	6.3	17.3	5.0	1.9	6.9	2.0	1.8	5.8	29.0	20.0	47.0	8.3	3.9	12.2
Jnworn		_ & c		2.0							-		-			-	-			_		-	-		-
	Ξn	5.0		5.0		0.5		1.0		1.6							1.0		1.0		2.4	2.4	1.0	0.9	1.9
	Fi	24.0	12.7	42.9	6.0			5.0	3.7	8.7	4.0	5.3	9.3	6.0	10.4	164		2.1	2./	1.0	3.4	4.4	3.0	1-7	4.7
Norn	B En	6.0	12.7			3.9			0.8	08	-	1.3	/.3	1.0	2./	3./	-	0.5	0.5		0.5	0.5		0.2	0.2
	211	7.0	11.0	18.0	20.0	6.0	26.0	2.0	2.3	4.3	-	0.4	0.41	4.0	3.2	7.2	3.0	3.5	6.5	2.0	3.5	55	4.0	2.1	6.1
	1							r																	
		210	05A		210)50		21	06A		21	.06C		22	07D	,	22	2071		22	08B		220	18C	
	PI	10.0	1.5	11.5	1.0		1.0	20.0	2.1	22.1	1.0		1.8	48.0		554	25.0	2.5	30.5		12.2		255.0	17.5	272.5
Inworn	En.																								
	71	-	0.1	0.7	2.0			2.0	-	2.0	2.0	0.5	2.5	1.0		1.0					0.1	0.7		0.1	0.1
Norn	3	3.0	1.4	<u>7.4</u> -	3.0	0.6	<i>3.</i> 8	2.0	<u>7.8</u>	9.8	-	_		<u>7.0</u>	3.2 0.7	1			1.0	1.0	1.3 0.5		13.0	3.3 -	16.3
,,,,,,	Ēπ	45.0	7.3	<i>52.</i> 3	16.0	0.8		23.6		31.0	10.0		15.8	4.0		7.7	4.0	2.0			1.5	1.5	3.0		4,6
						<u></u>	,				والمستناسا					·	<u> </u>	<u></u>		· 					
	1	0.5.		·	226	202		22	1.0.1		2.0	21011		2.7	1.1.12		23	1111		22	1213		22	12G	
	DI I	339.0	09B	2226	191.0)9D_	66-	22		72.7	No S	Sampl	e !	22 4.0	1113		35-0				(21)			15.9	143.9
lawora	·	ام <u>، آدہ۔</u> ا –	31.1	<u> </u>	797.0	29.0	<u> </u>	<u> </u>	12.6	- 12.6					-	2.0	350	- C. S						75.7	775.1
	Er.				_		_	6.0		6.0					_		4.0						9.0	1.4	10.4
	FI	1.0	0.3	1.3	6.0	0.1	6.1	31.0	27.1					1.0	0.5	1.5	12.0		17.7				97.0		
Morn	3]		-		0.5	0.5	-	2.8	2.8			į	-	0.4	0.6			2.7					0.6	96
	27							15.0	15.9	30.9				15.0	11.57	26.7	50	12.2	17.2.				280	16.0	44.0
		23	13A		23	13B		23	14I		23	31411		23	15I		23	31511		23	16A		23	16B	
	131	45.0	16.1	61.1	93.0	19.9	112.9	(010.0	203.3	1213.3	Not A	Analy	zed	34 <u>1.</u> 0	32.6	273.6		0,1	0.1	750	30.7	105.7	Not /	Analy	zed
Inworn							-			_								0.3	3.0						
***	Cn.				1.0	-	1.0	5.0	/.3		·			3.0		3.0	·		1.9	(··	0.3	0.8			
			18.6	45.6	21.0	18.2				422						93.6				7		33.4			,
Worn	3		0.9	0.3						0.4							,			<u>,</u>		0.4			
	En	1.0	1.3	2.3	6.0	3.7	7.7	4.0	0.9	4.9				25.5	0.9	1259	4.0	2.7	6.1	7.0	6.3	73.3			, •

	Į	Whi	Frg	<u> </u>	Whl	Frg	E	Whi	Frg	<u> </u>	Wbl	Fig	Æ.	¥/3:1	Frg	8	Wal	۶:5	S.	Whi	Frg	3	Whi	Frg	£
		23	17A		231	17B		23	1SA	 	2.3	318B		24	19A		24	196		24	20A		241	2013	
	71	91.0	23.3	114.3	198.0	2.5.4	223.4	3.0	1.5	4.5	5.0	3.0	8.0	/5.0	7.8	228	13.0	3.8	16.8	16.0	5.3	21.3			5/.7
Worn			-		-	-	-	_			_	-	-		_		-	_	_	_		_	-	-	-
	Cn	1.15	0.3	7.3	1.0	0.6	1.6				-		_			_	-		~				_	0.3	2.3
	Pi	5. n	4.8	9.8	49.0	11.0	60.0	3.0	0.9	3.9	4.0	5.0	9.0	7.0	10.8	17.8	6.0	13.6	191	2.0	3.0	۲ ۸	/3.0	(8.7	2/2
orn	<i>1</i> 3		0.5	0.5	-	0.6	0.6	_			_	0.6	0.6		5.5	5.5	-	3.8	3.8		0.5	0.6	12.0	3.4	21.6
	En	_	1.8	1.8	3.0	8.5	11.5	1-			1.0	3.4	4.4	_	_		_	1.4			ام. ب	0.5		2.3	23

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		24:	21A		242	HB		24	22A		24	12213		24	23A		24	2313		21:	24A		2/12) / D	
	PI	63.0	1.0	64.0	42.0	1.1	43.1	14.0	26.7	1667	<i>5</i> 7.6	21.2	78.2.	45.0	16.4	6/4		بسيده للمجلد المسيهونات	21.3			250	16.0	4.7	20.
worn	[£3.]	_					-						-			f —			_						
	I.c.								-		_	0.5	0.5	4.0	2.8	6.8	_	c. i	0./		-	-			
	21		0.5	0.5	1.0	2.7	1.7	18.0	32.5	50.5	8.0	28.9				86.1	35.0	64.0	990		0.6	0.6	/:0	1.6	2 /
rn	3		_					3.6	9.2	7.6		10.5		_	10.3			9 6	96			_		0.1	0.1
	En			~	-	0.9	0.9		1.3	7.3	_	2.8	2.8	63.0		1/2.4	20.0	215	46.5	4.0	3.4	7.4	50	45	10:

		24	25C		24	25D		242	26A		24	26B	30 000 00 00 00 00 00 00 00 00 00 00 00	24	27A		24	27B	National september of the	252	78		252	9	
	P:	16.0	2.2	182	Not	Anal	yzed	/3.0	4.9	17.9	52.0	13.7	71.1	Not	Analy	zed	1110	30.1	141.1	Sampl	e De	stro	ed -		
nworn	E			_						_	<u> </u>					į									
	Enl	1.0	1.3	2.3	i			-	0.(0.1	1.0	-	1.0							1					
	G- 3	9.0	2.2	1/2				_	ن. 3	3.0	1.0	0.5	1.5				14.0	15.8	27.8						
/orn	5		4.8	4.8						_	_	0.5	0.5				8.5	3.6	11.6						
	En	5.0	26.3	31.3				-	0.7	0.7	-	2.4	2.5			i	5.0		5.0						ì

		252	29A		252	9		253	30A		25	530H	 253	13		25:	31G		253	32I		253	211	
	PI		0.2	0.2.	18.0	1.5	20.3	1.0	_	1.0			14.0	2.0	16.0	3.0	0.6	3.6	2.0	2.7	4.7	-0	0.7	1.7
nworn	<u> B </u>	-		-		-								_				_	1.0	-	1.0	_	0.7	6.7
	En	_		_	5.0	0.8	5.8		-				40	0.9	4.9		0.5	c. 5	_	o.z	0.2	6.0	0.5	6.6
	71	3.0	3.4	6.4	3.0	-	3.0	-	0.3	0.3			3.0	0.3	6.81	1.0								3.0
'orn	21				3.0	1.0	4.0	_	_	-			20	2.2		-								1.9
-	Enl	2.0	<u> </u>	13.5	52.0	22./	74.1	5.0	7.3	6.3		j	20.0											- 46

	•	18/351	Erm	~	34/21	E	4.	3555.1	p=	سه ا	3022.4						1			T	1				
					1 22111	1813	V.5	1.5 2 2 2 3	rra	1 75	1 63211	rrg_	122	13331	Fre	<u> </u>	[Wh!	Frg	1.5	Whi	Fra	~	Whi	Frg	€_
		25	33A		25	33D		25	34E		2.	534H		25	35C		2.	535G		25	36A		25	36H	$\overline{}$
	PI	21.0	7.3	223	12.0	0.9	12.9	13.5	1.0	14.0	40.0	3.8	43.8	32.0	7.8	39.8	_	1.5	1.5	43.0	17.9	60.9	41.6	20.2	61.2
Jumoru	ļ				1.0		1.0					0,5	0.5						_	-	_	-			-
·	En			/3.0	17.0	1.6	18.6	1.0		1.0	8.0	0.5	8.5		-			-	-			-	1.0	-	_1.0
<i>01</i>	(C) (B)	6.5	2.8	8.8	<u> </u> -	0.2		8.0	23		240		3/.2		3.6	3.6		0.4	0.4	20		20	4.0	1.5	5.5
Morn	En En		1.8	1.8	1.0	0.5			0.6	0.6	2.0		4.3					0.1	0.1		04	0.4			
	54.23	43.c	20.3	63.3	14.0	18.9	32.9	20.0	24.0	44.0	21.0	21.5	42.5							<u> </u>					
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		-	37B			37G		26	38A		26	538D		26	393		26	539C		26	40G		264	H04	
	्रा	<u>57.0</u>	23.6	75.4	63.0	29.4	92.4	68.0	39.1	107.2	88.0	56.8	144.8	98.0	578	157.8	Not	Anal	yzed	46.0	20.8	648	48.0	16.4	64.4
inworn	En									_													1.0	-	1.0
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∀orn	22				4.0	1.0	5.0	1,0	0.5	1.5	16.0				48.1						29.3	1	12.0	233	35.3
741	En						=-					0.4	0.4		<u>5.6</u> 13.8	5.6				2.0		13.6	1.0	7./	8.1
	- (k.	!)			!			7.7	1./	8.0	13.8	27.8				16.0	31.2	47.2	12.0	25.2	38.2
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nworn	,,,	6.0	3.9	<u>- 9.9 j</u>	4.0	1.8	5.8	16.0	16.7	32.7	49.6									_2/ c			5.0		5.7
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	PI	9.0	2.2	11.2	1.0 9.0	0.3	10.3	16.0		38.4		0.6	0.6						-	16.0	1.5		3.0	0.4	3.4
	3	_			-	0.11		76.0	1.6		37.0	33.2 2.5	70.Z	4.0 2.0	2.9	5.8 4.9				3.0	/.3 /.3		4.0		4.0
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