

RARE-EARTH SOIL HORIZON MARKERS TO DETERMINE  
THE SHORT-TERM ACCRETION IN  
LOUISIANA MARSHES

A Thesis

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in the

by

Daniel Lee Van Gent

B.S., University of California at Davis, 1980

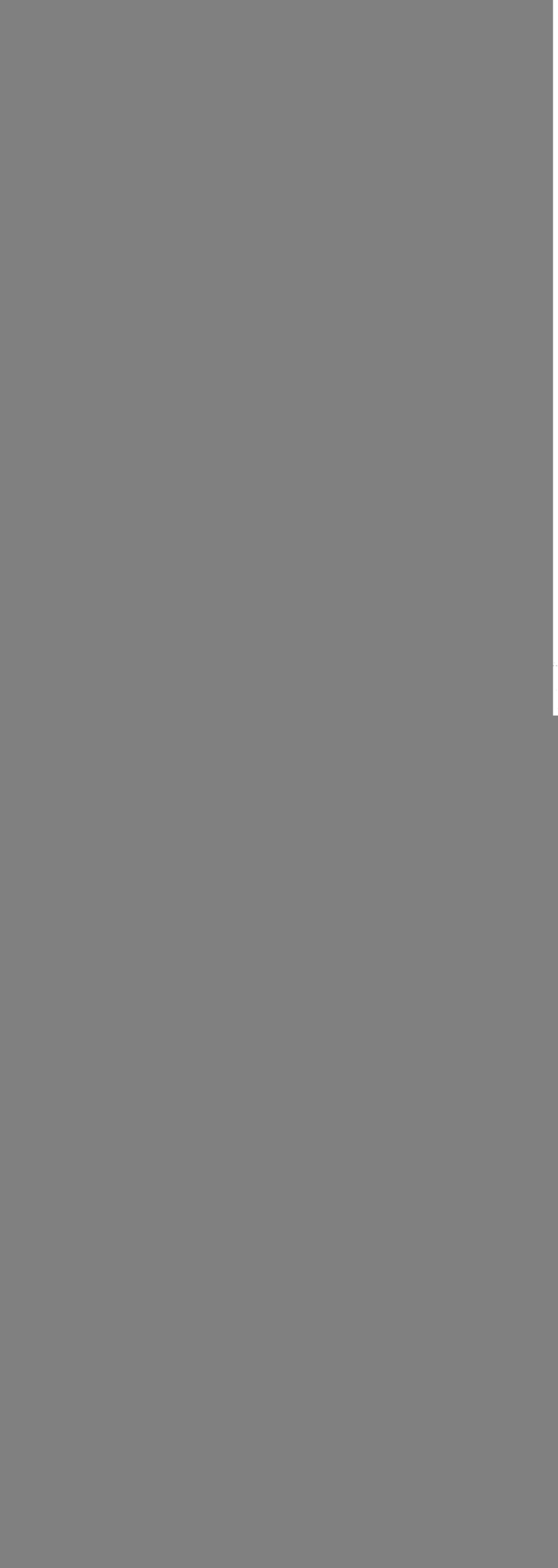
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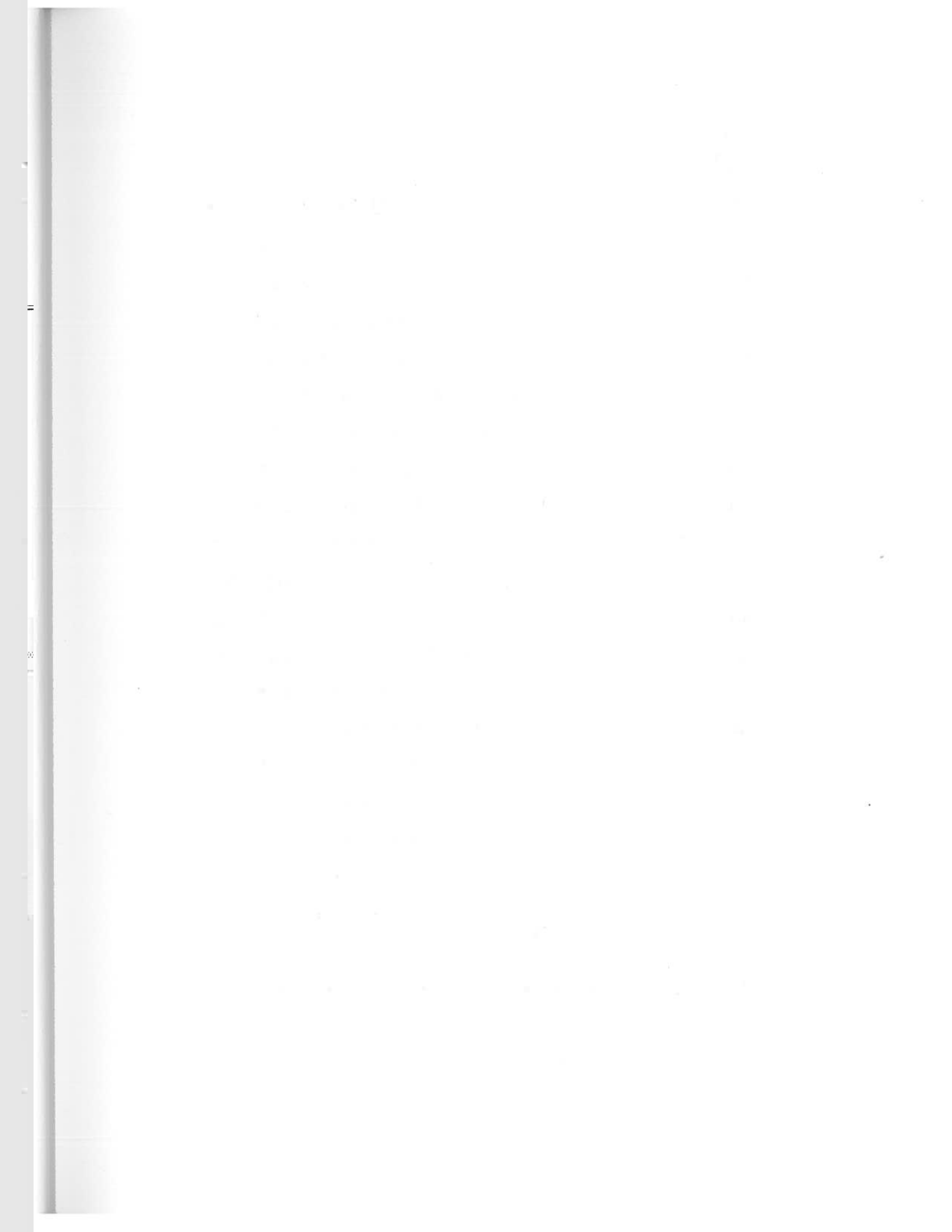
## ACKNOWLEDGEMENTS





第 三 章



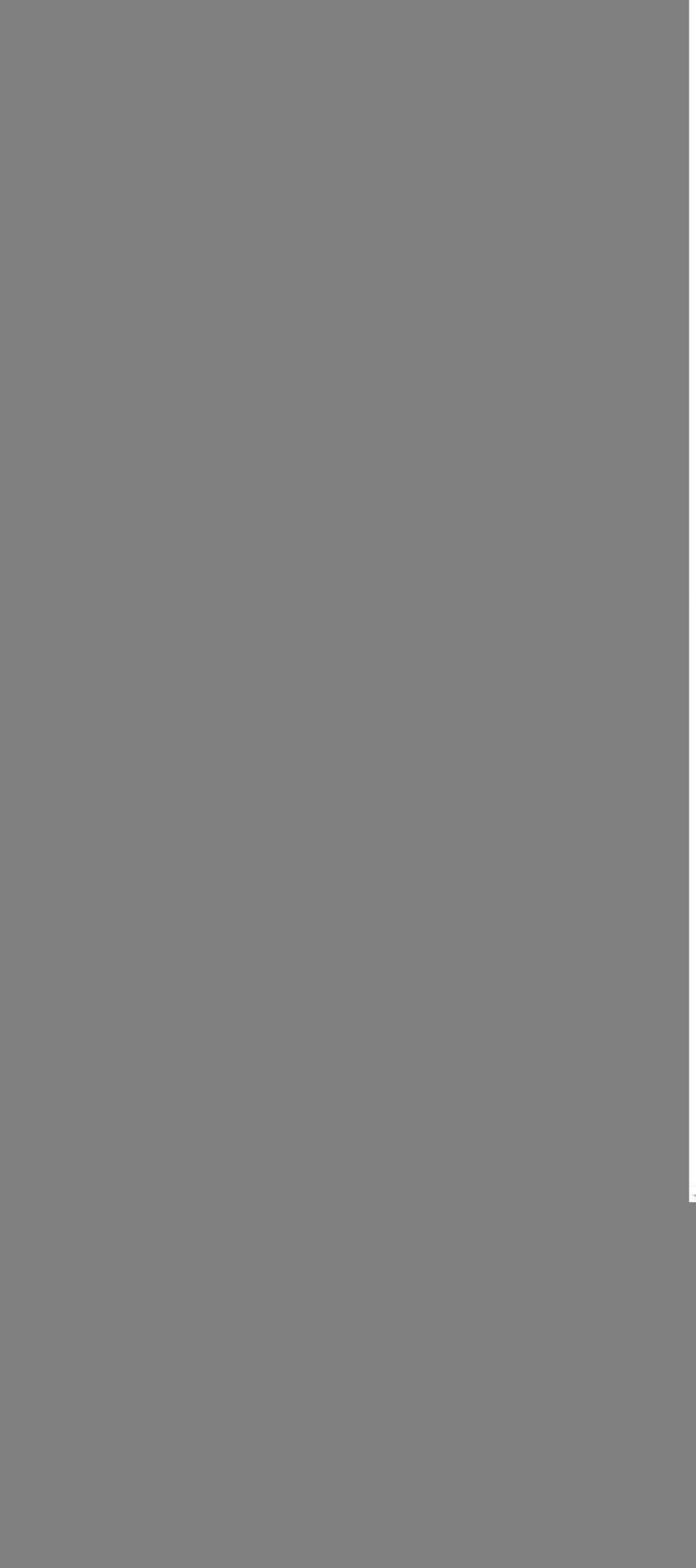








LIST OF FIGURES



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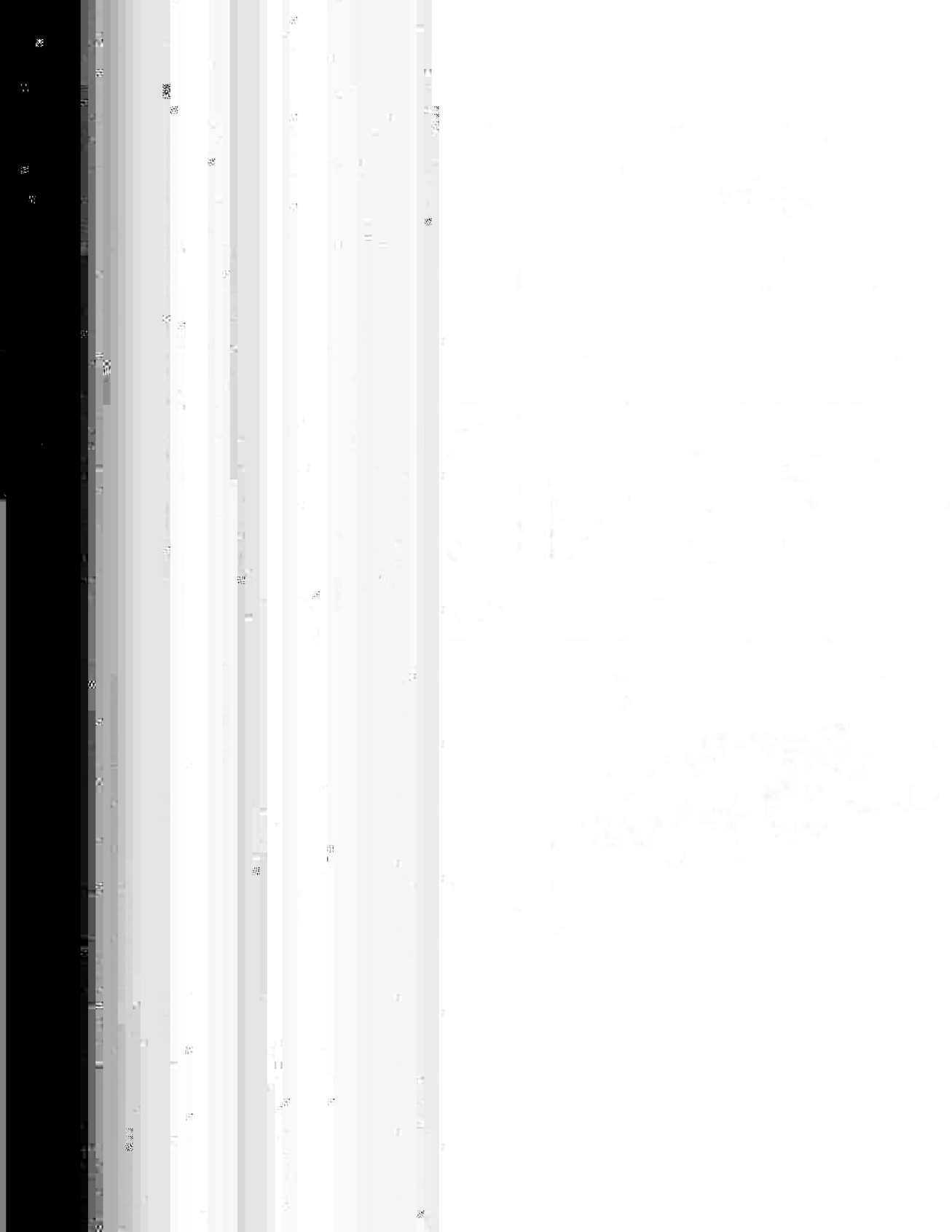
## ABSTRACT



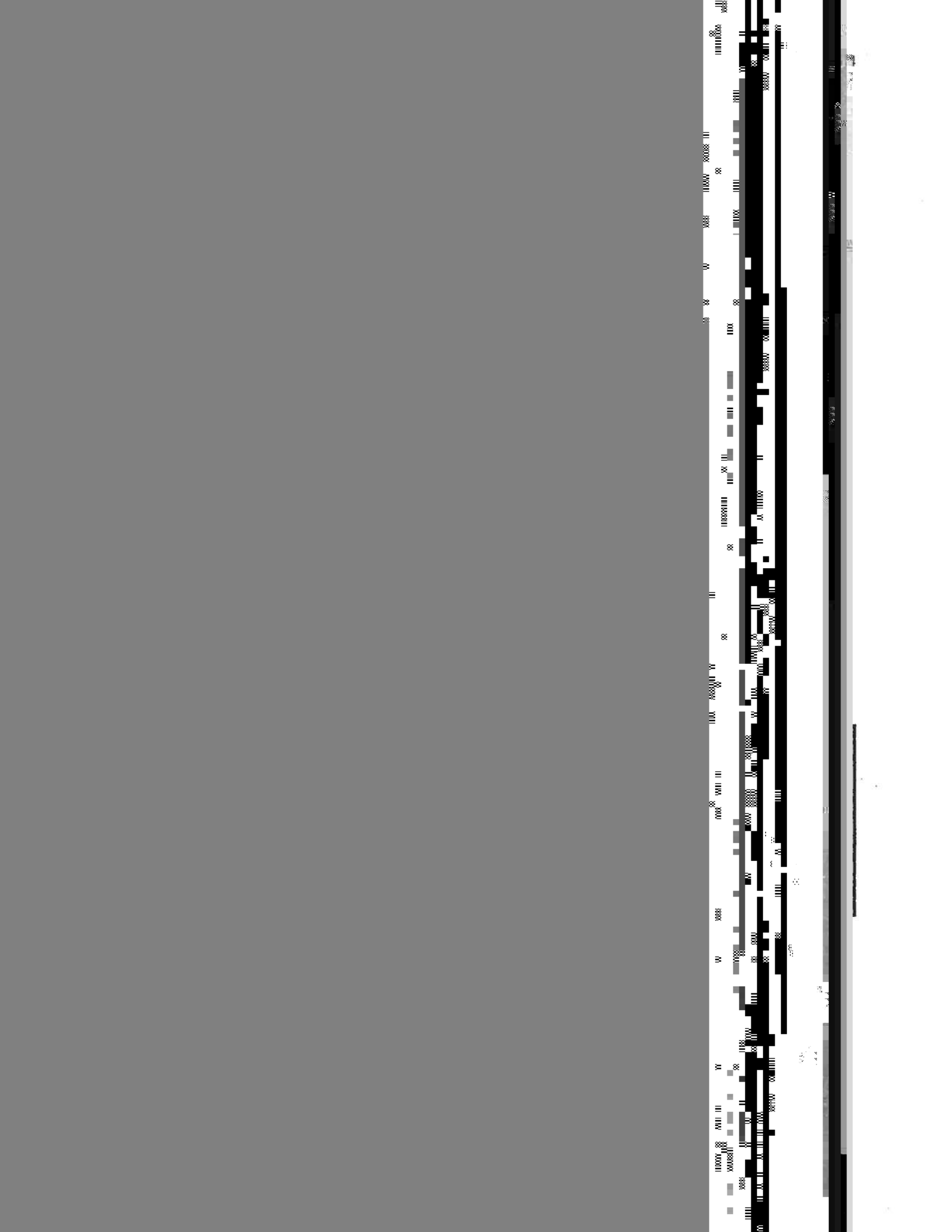
CHAPTER 1  
INTRODUCTION



Figure 1.1. Major delta lobes that have constructed the Holocene Mississippi River deltaic plain. From Turner, 1987.









The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author details the various methods used to collect and analyze the data. This includes both manual and automated processes. The goal is to ensure that the data is as accurate and reliable as possible.

The third part of the document focuses on the results of the analysis. It shows that there is a clear trend in the data, which is consistent with the initial hypothesis. This finding is significant as it provides strong evidence for the proposed model.

Finally, the document concludes with a summary of the findings and some recommendations for future research. It suggests that further studies should be conducted to explore the underlying causes of the observed trends.





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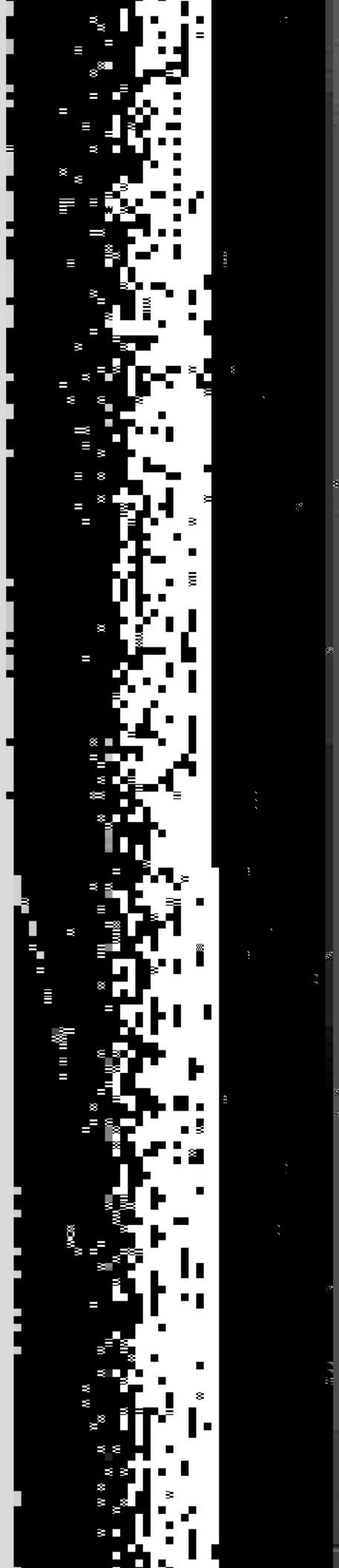
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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

Furthermore, it is noted that the records should be kept in a secure and accessible format. Regular backups are recommended to prevent data loss in the event of a system failure or disaster.

In addition, the document outlines the process for reconciling accounts. This involves comparing the internal records with the bank statements to identify any discrepancies. Any differences should be investigated immediately to determine the cause and corrected accordingly.

The final section of this part discusses the role of the accounting department in providing financial reports to management. These reports should be clear, concise, and provide a comprehensive overview of the company's financial performance over a specific period.

It is also important to ensure that all financial data is entered into the system accurately and in a timely manner. This helps in maintaining the integrity of the financial statements and provides a reliable basis for decision-making.

Finally, the document stresses the need for ongoing training and education for the accounting staff. Keeping up-to-date with the latest accounting standards and software updates is essential for the department's effectiveness.







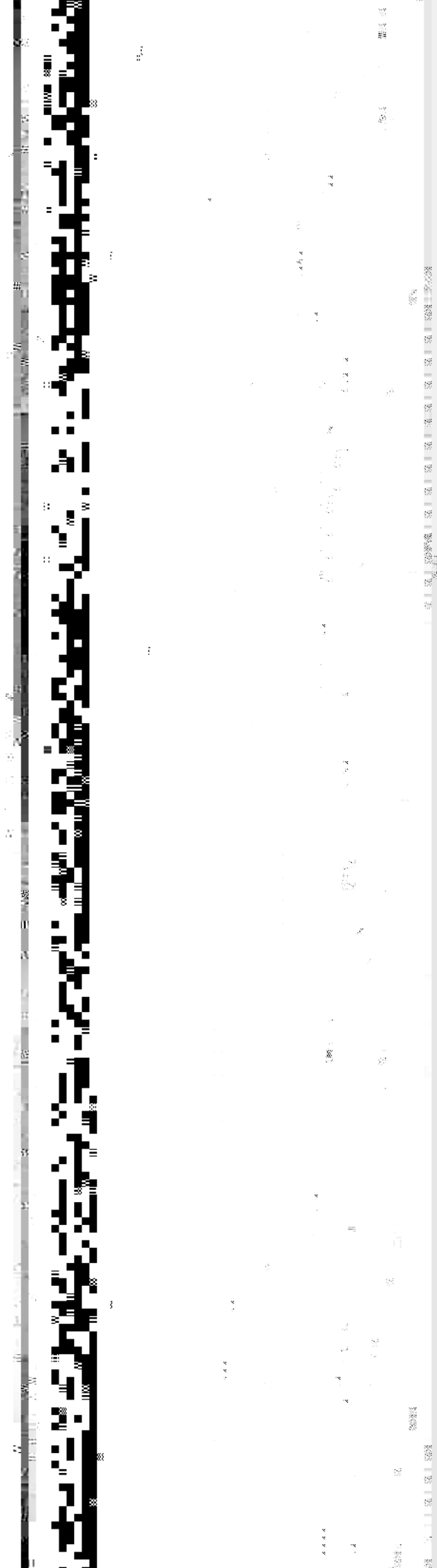
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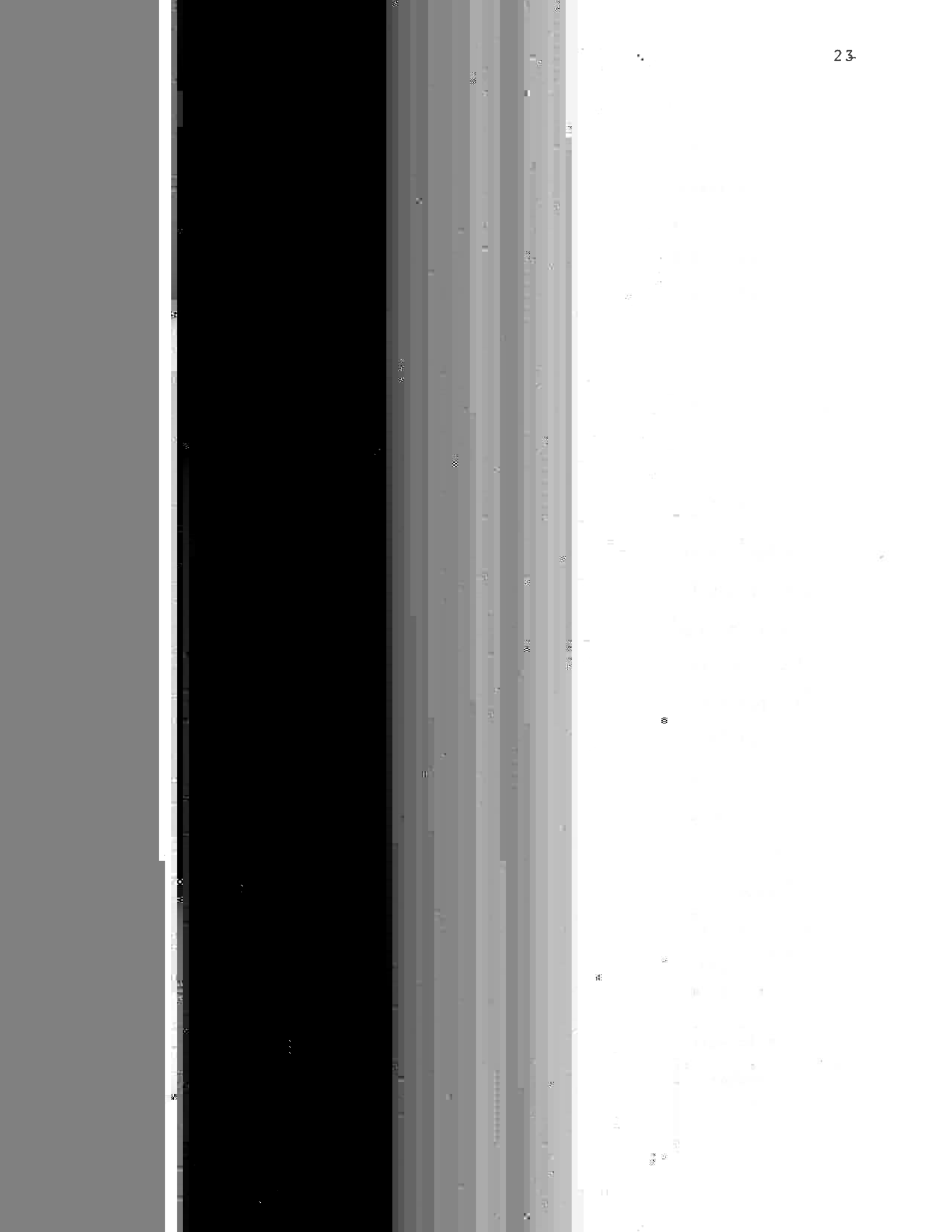




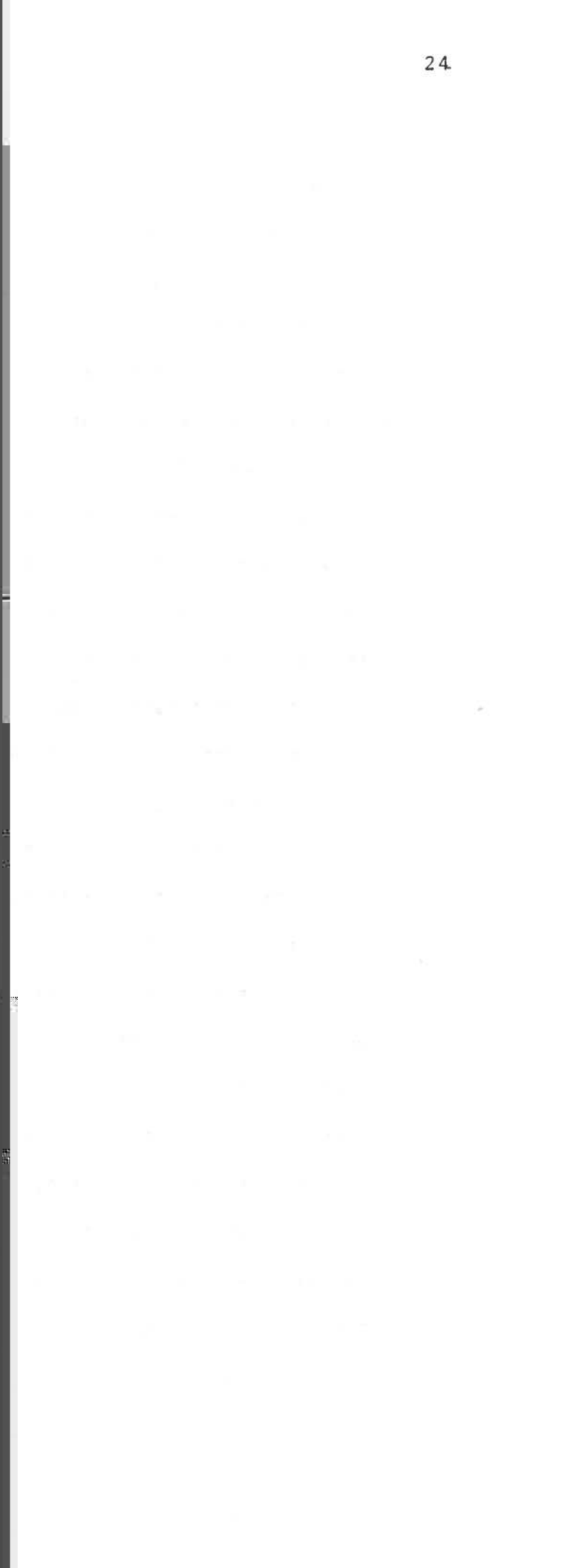
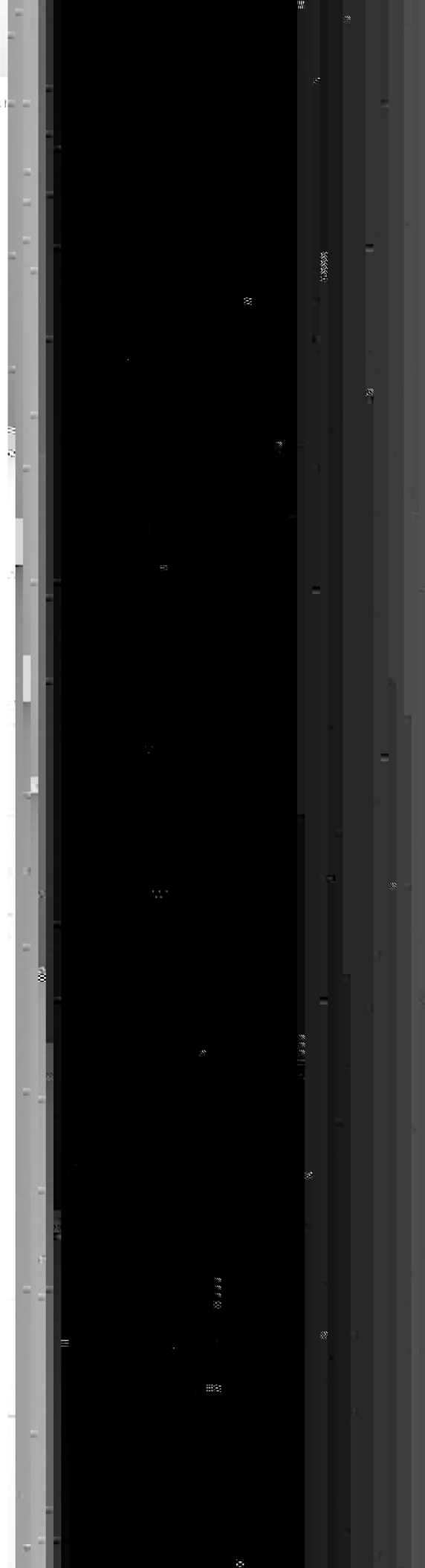
4. Transitional marsh environments:



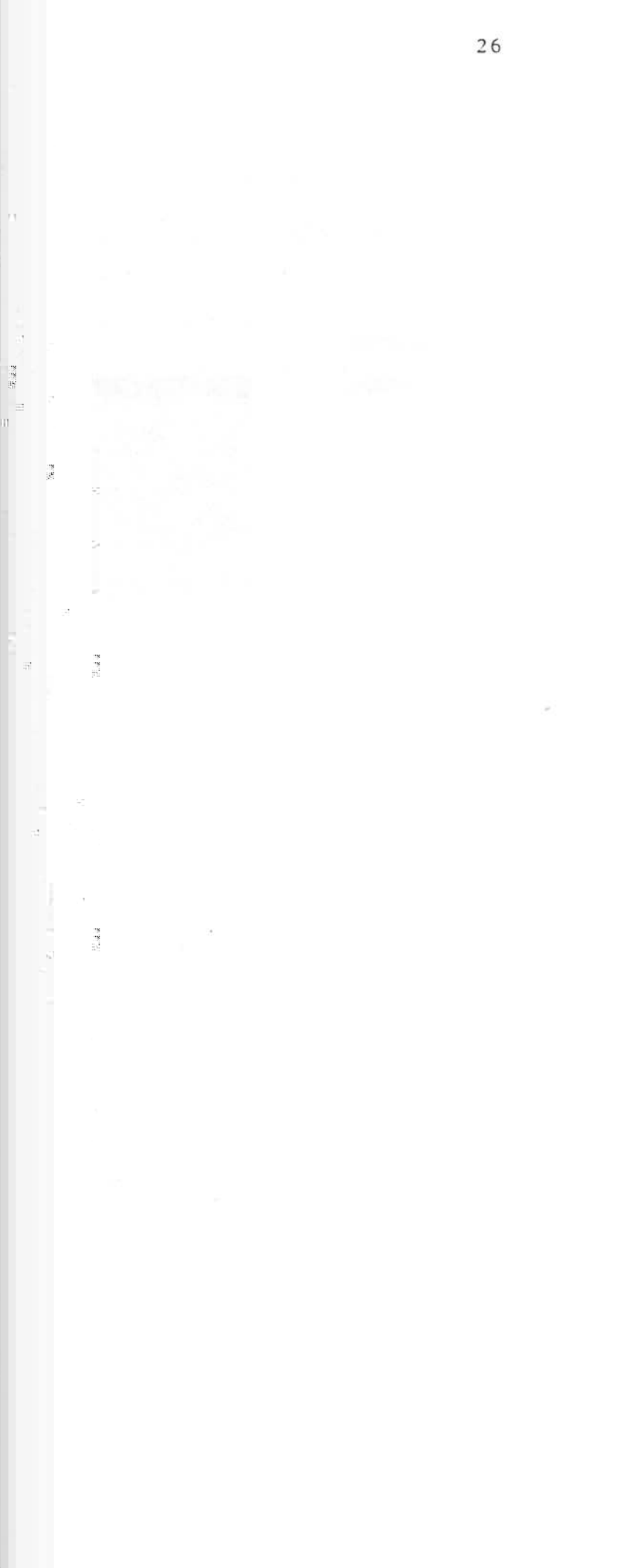
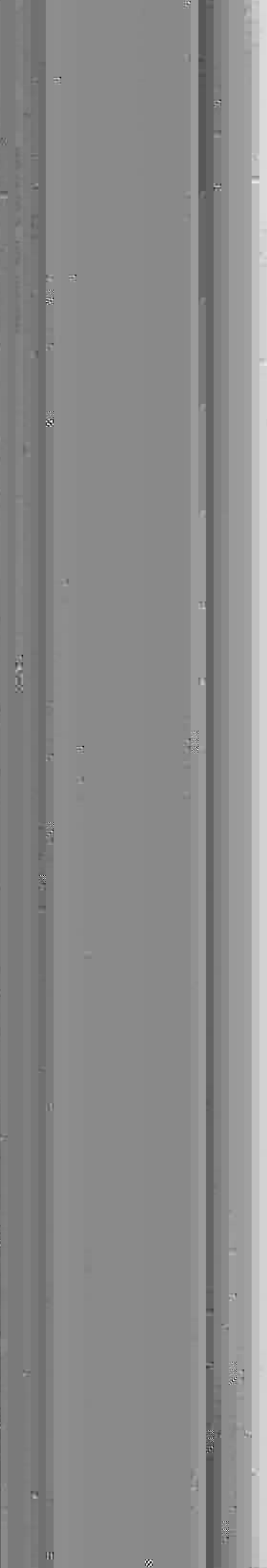
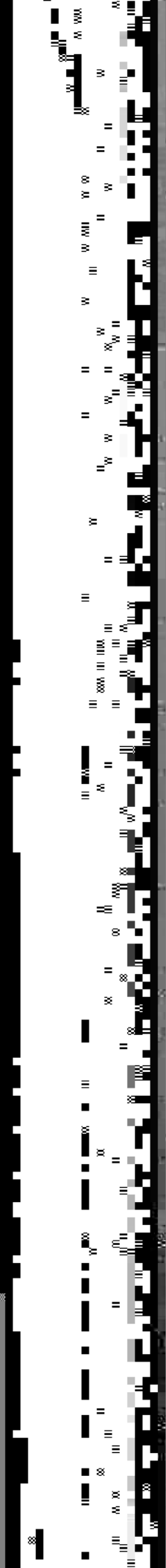




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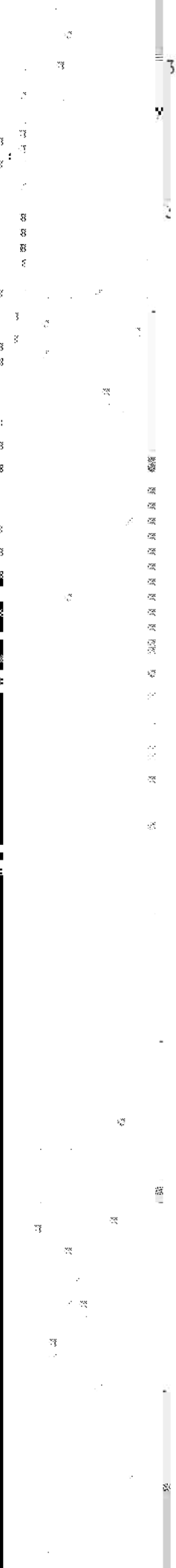
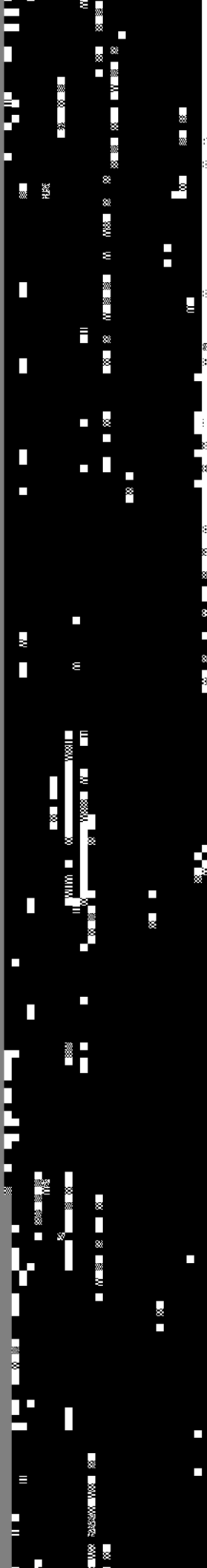








Figure 3.7. Lafourche at Fourchon feasibility study area. Source:  
Gail's Bait Shop, Leeville, LA.

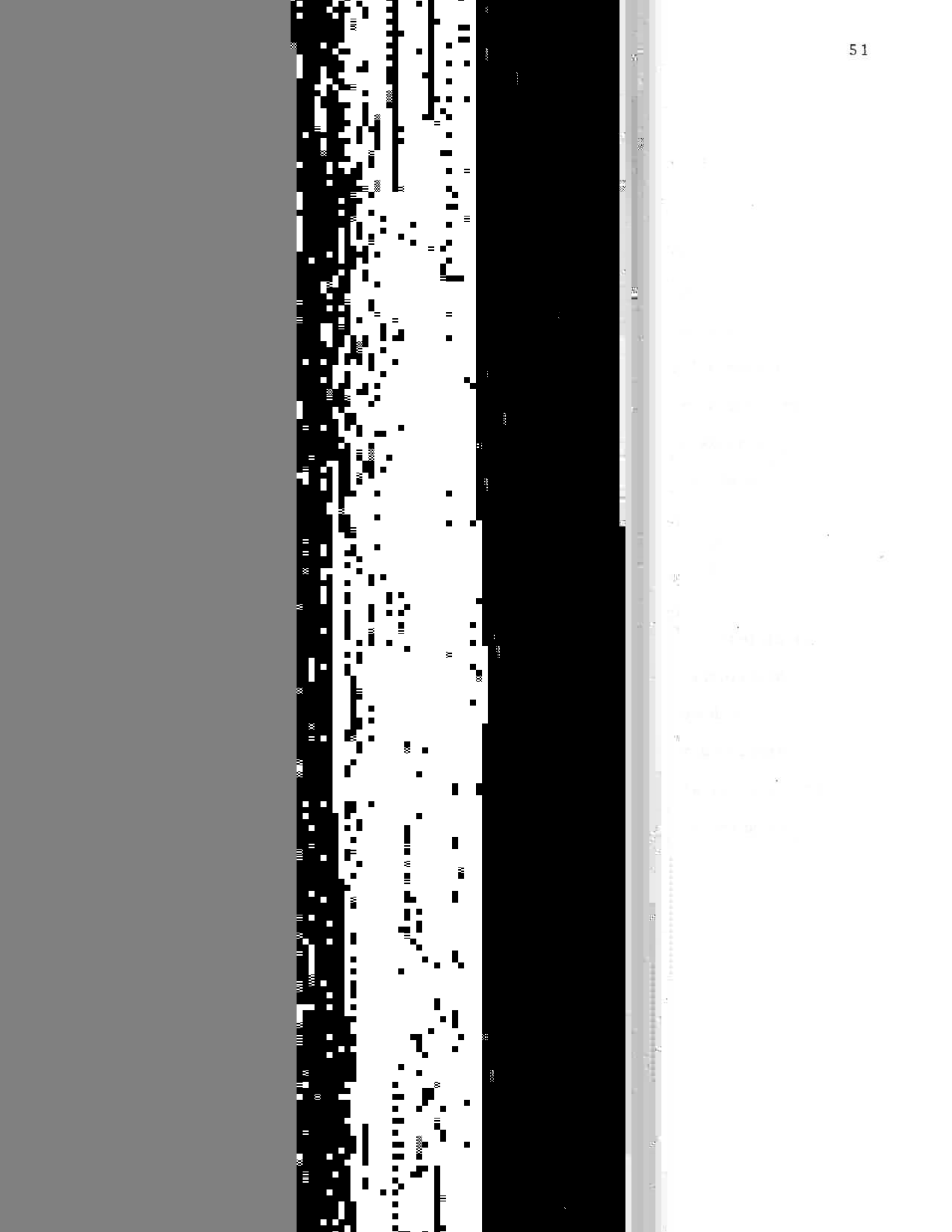


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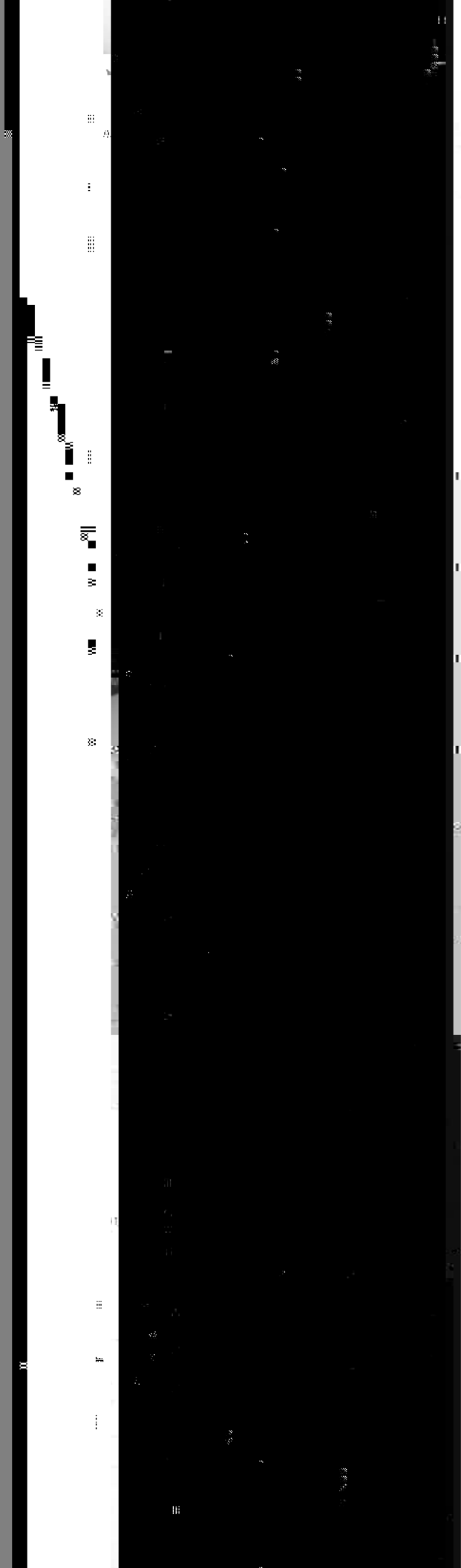
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Supply

The supply of goods and services in an economy is determined by the resources available and the technology used to produce them. The supply curve shows the relationship between the price of a good and the quantity supplied. It is an upward-sloping curve that represents the marginal cost of production. The supply curve shifts to the right when there is an increase in resources or technology, and to the left when there is a decrease. The supply curve is affected by changes in input prices, technology, and the number of producers. An increase in input prices shifts the supply curve to the left, while an increase in technology shifts it to the right. An increase in the number of producers shifts the supply curve to the right. The supply curve is a key component of the supply and demand model, which is used to determine the equilibrium price and quantity of a good.

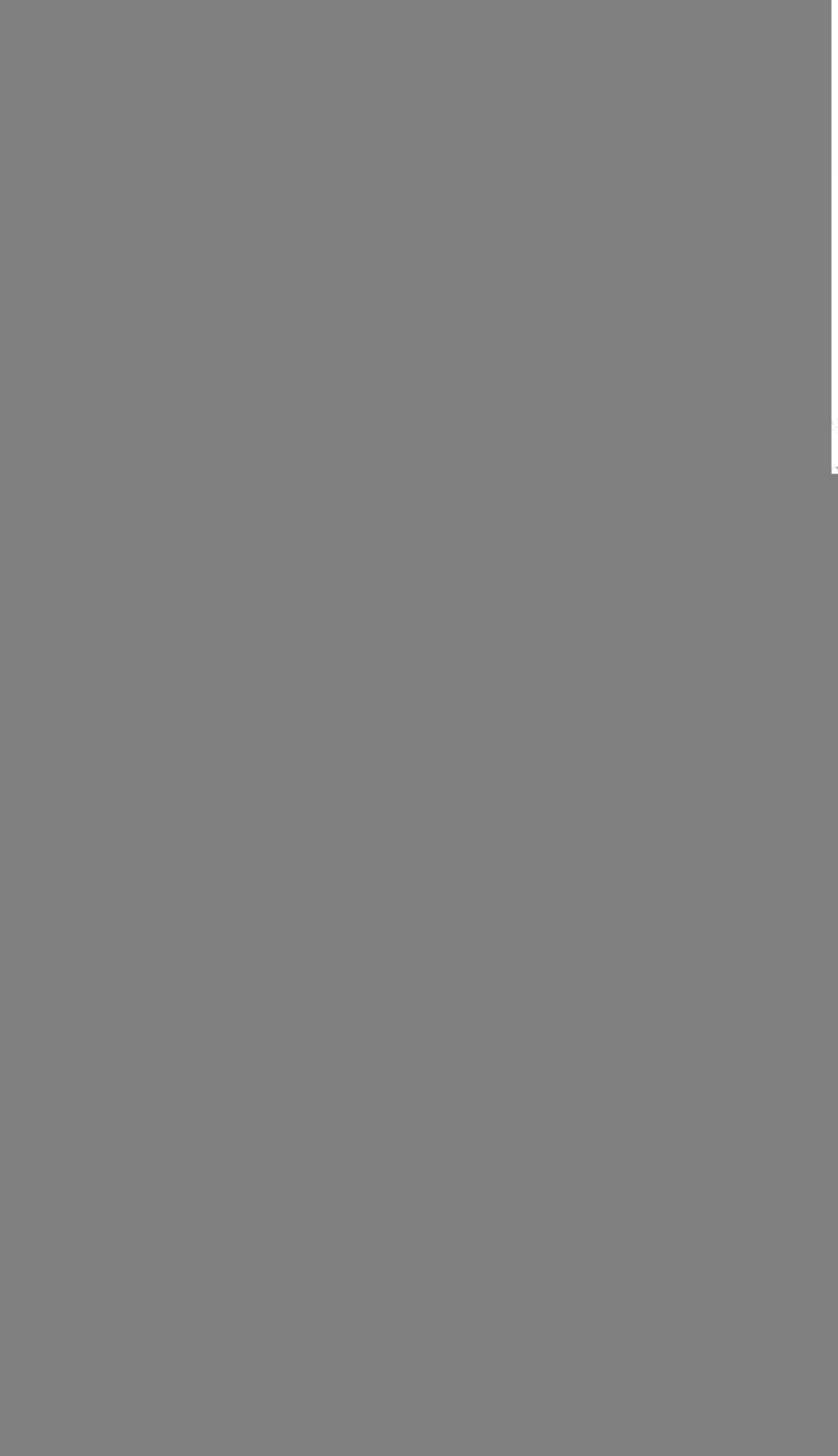
The supply curve is a graph that shows the relationship between the price of a good and the quantity supplied. It is an upward-sloping curve that represents the marginal cost of production. The supply curve shifts to the right when there is an increase in resources or technology, and to the left when there is a decrease. The supply curve is affected by changes in input prices, technology, and the number of producers. An increase in input prices shifts the supply curve to the left, while an increase in technology shifts it to the right. An increase in the number of producers shifts the supply curve to the right. The supply curve is a key component of the supply and demand model, which is used to determine the equilibrium price and quantity of a good.

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comparison to that found in saline and brackish marshes.







1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in all financial dealings.

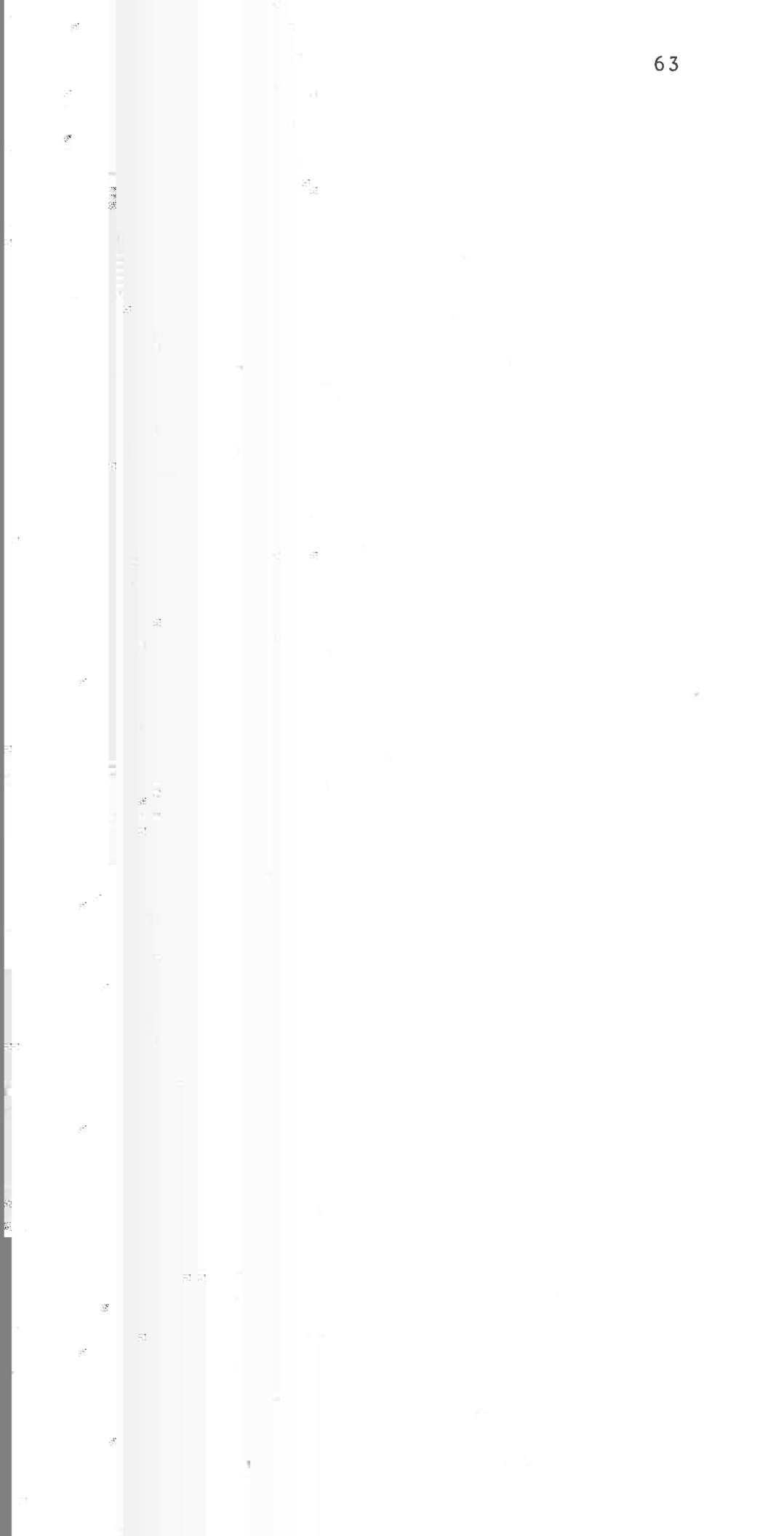
2. The second part of the document outlines the various methods used to collect and analyze data. It includes a detailed description of the data sources and the statistical techniques employed to interpret the results.

3. The third part of the document presents the findings of the study. It shows that there is a significant correlation between the variables being studied, and it provides a clear explanation for these results.

4. The fourth part of the document discusses the implications of the findings. It suggests that the results could be used to inform policy decisions and to improve the efficiency of the system being studied.

5. The fifth part of the document concludes the study and provides a summary of the key points. It also includes a list of references and a list of figures and tables.









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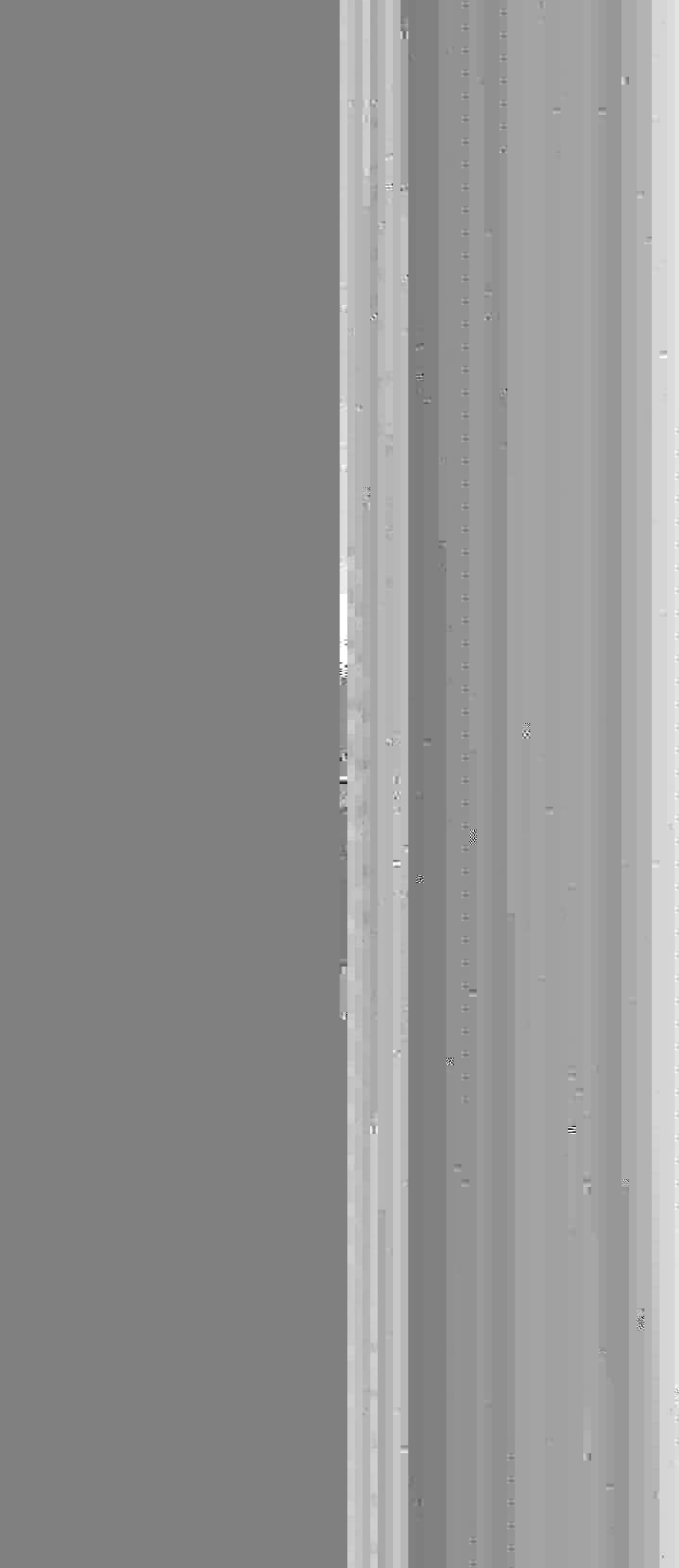
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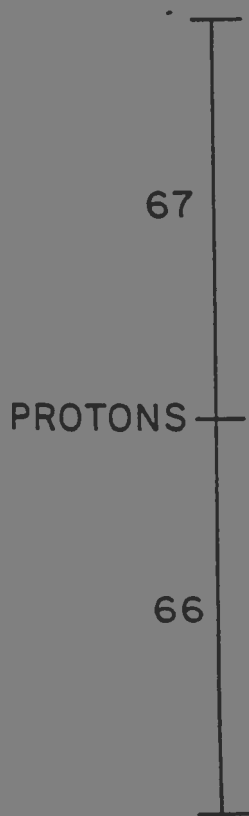
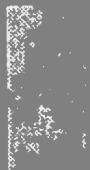


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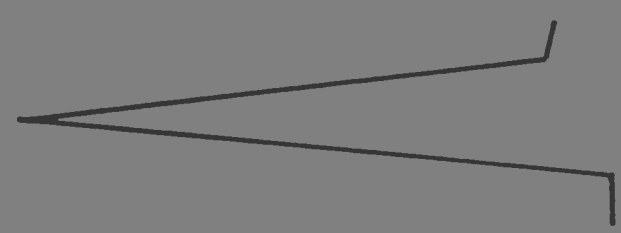
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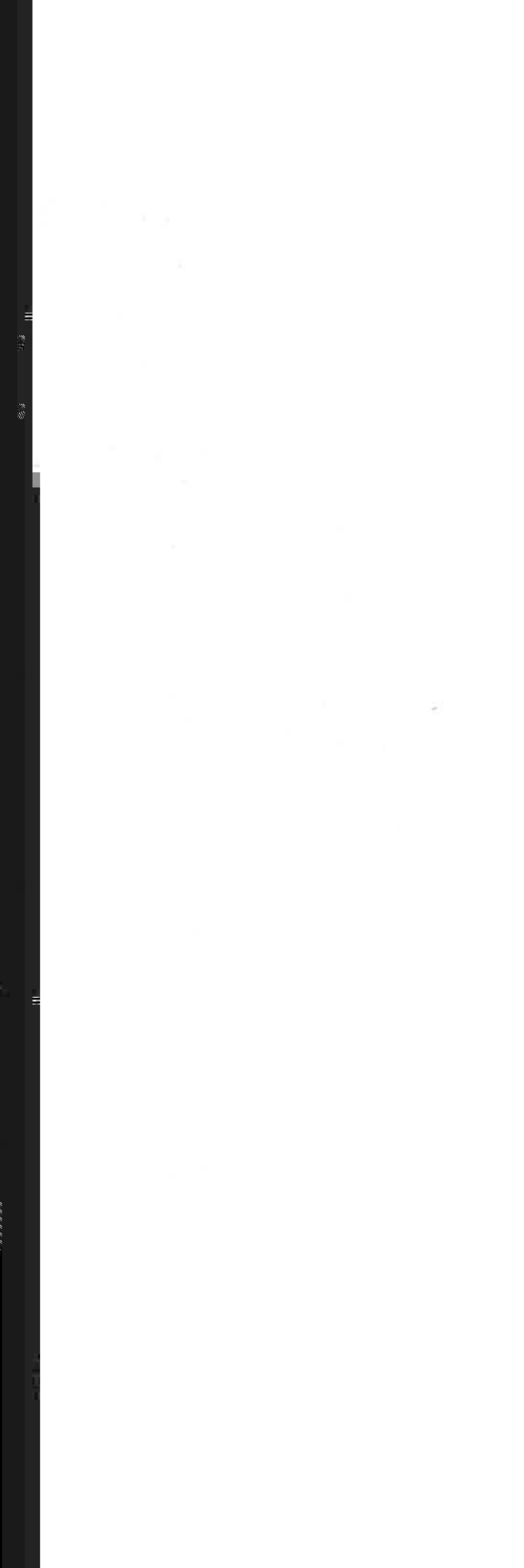
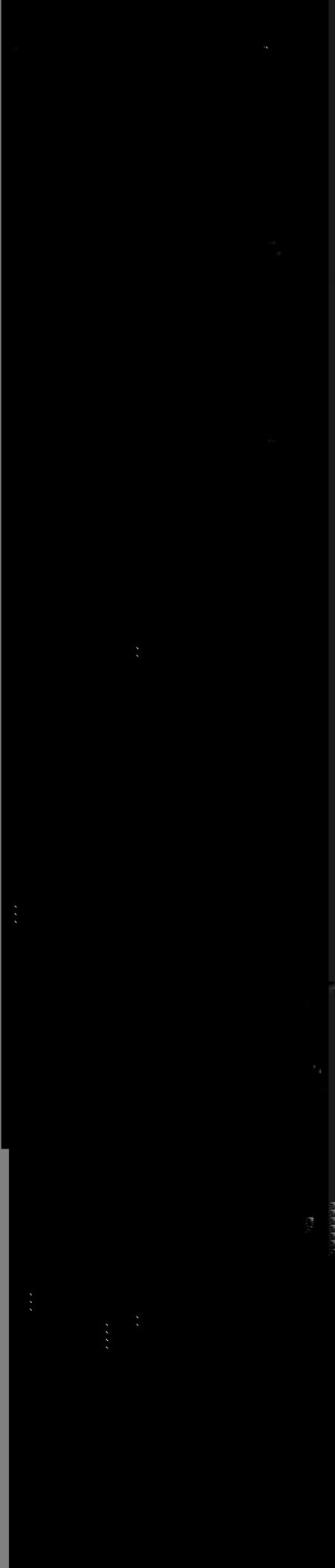
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$$c(x^*, t^*) = \exp\left(\frac{x^*}{2G} - \frac{t^*}{4G}\right)$$

$$\bullet \sum_{n=1}^{\infty} \left( \frac{1}{\beta_n} \left( \cos \alpha_n x^* + \frac{1}{2G\alpha_n} \sin \alpha_n x^* \right) \bullet \exp(-G\alpha_n^2 t^*) \right) \quad (\text{Eq. 4.3})$$



The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry, no matter how small, should be recorded to ensure the integrity of the financial statements. This includes not only sales and purchases but also expenses, income, and transfers.

The second part of the document provides a detailed breakdown of the accounting cycle. It outlines the ten steps involved in the process, from identifying the accounting entity to preparing the financial statements. Each step is explained in detail, including the necessary documents and procedures to follow.

The third part of the document discusses the various methods used to record transactions. It compares the double-entry system with the single-entry system, highlighting the advantages and disadvantages of each. It also explains how to use T-accounts to organize and summarize the data.

The fourth part of the document focuses on the preparation of the financial statements. It explains how to calculate the net income or loss for a period and how to prepare the balance sheet, income statement, and statement of owner's equity. It also discusses the importance of reconciling the books and correcting any errors.

The fifth part of the document discusses the various types of accounts used in accounting. It explains the difference between assets, liabilities, and owner's equity, and how they are recorded in the books. It also discusses the various types of expenses and revenues, and how they are classified.

The sixth part of the document discusses the various methods used to determine the cost of goods sold. It explains how to calculate the cost of goods sold using the FIFO, LIFO, and average cost methods, and how to adjust for inventory changes.

The seventh part of the document discusses the various methods used to determine the cost of services. It explains how to calculate the cost of services using the direct and indirect cost methods, and how to allocate costs to different departments or projects.

The eighth part of the document discusses the various methods used to determine the cost of capital. It explains how to calculate the cost of capital using the weighted average cost of capital (WACC) method, and how to use it to evaluate investment opportunities.

The ninth part of the document discusses the various methods used to determine the cost of debt. It explains how to calculate the cost of debt using the debt yield method, and how to use it to evaluate the cost of borrowing.

The tenth part of the document discusses the various methods used to determine the cost of equity. It explains how to calculate the cost of equity using the dividend discount model (DDM) and the capital asset pricing model (CAPM), and how to use it to evaluate the cost of raising capital.



# CONCENTRATION vs. DEPTH

TIME-0.2, G-0.3

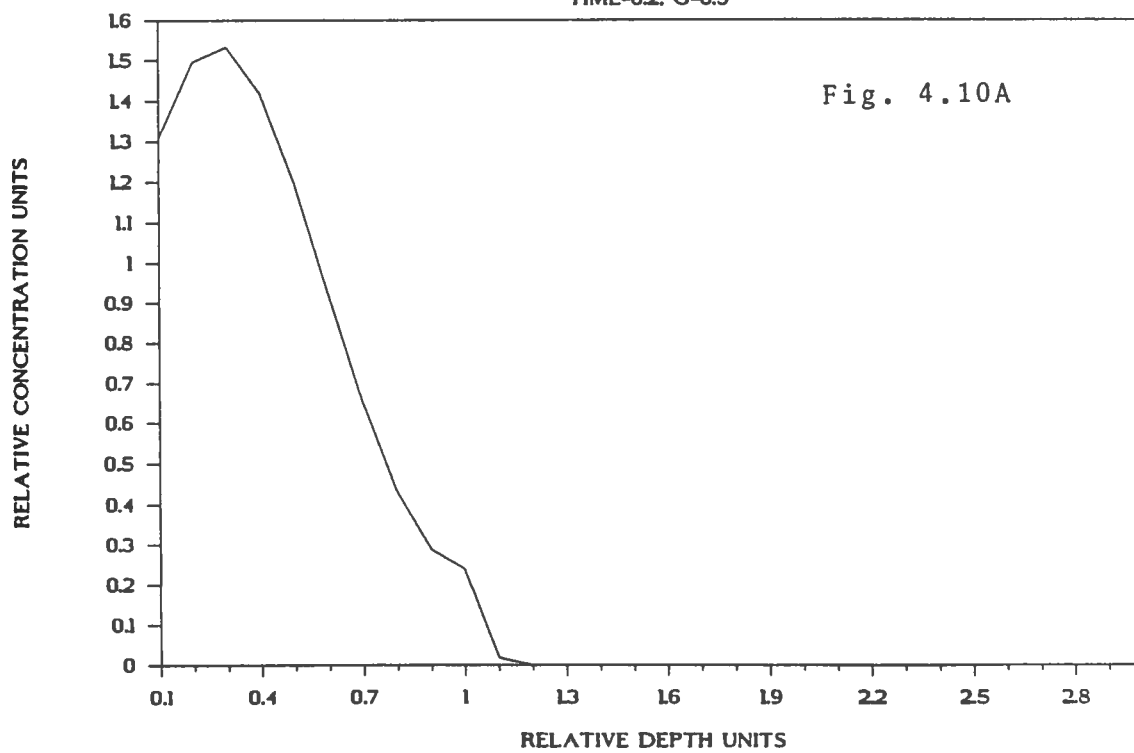


Fig. 4.10A

RELATIVE CONCENTRATION UNITS







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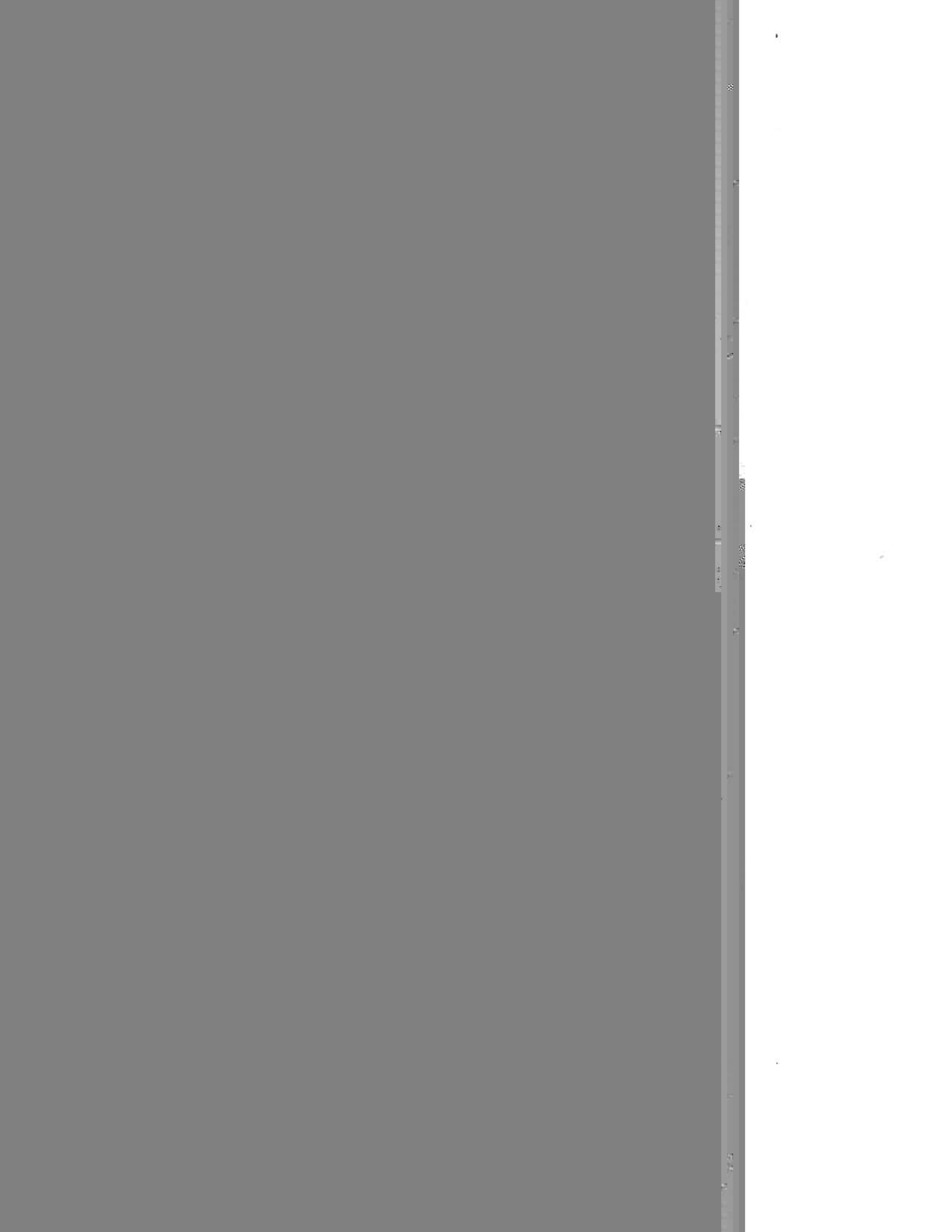
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CHAPTER 5

RESULTS



Dysprosium counts  
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4	1291	1206	5651
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6	1519	1337	7183
7	1869	1523	7394
8	2002	1616	7201
9	1963	1627	6533
10	1854	1471	5706
11	1589	1404	4942
12	1380	1376	4399
13	1286	1171	4016
14	1151	1133	3958
15	1146	1128	3872
16	1222	1158	3979

Table 5.1 continued

Dysprosium counts  
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Table

MINERALS

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CONCENTRATION

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LEAD

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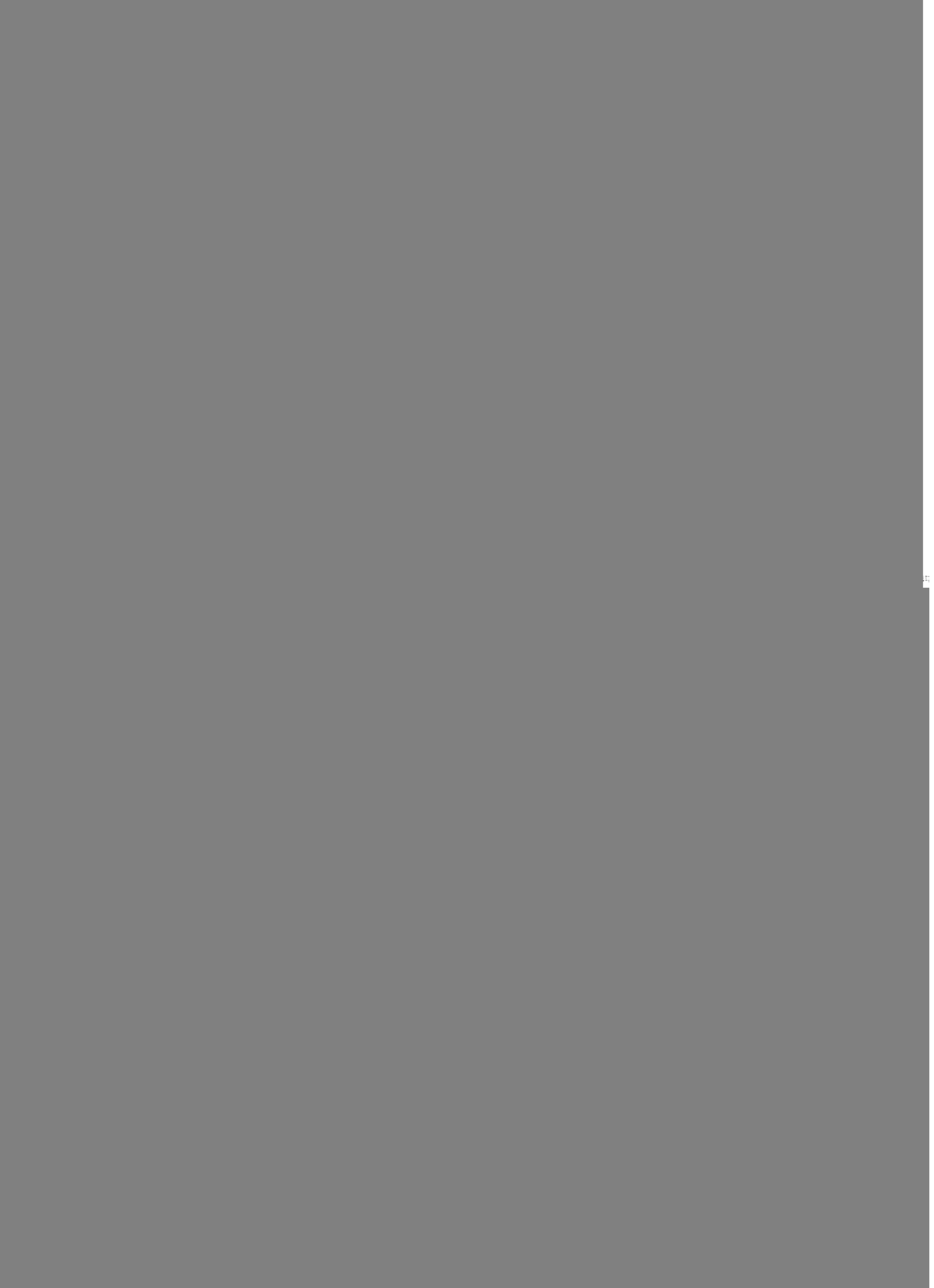
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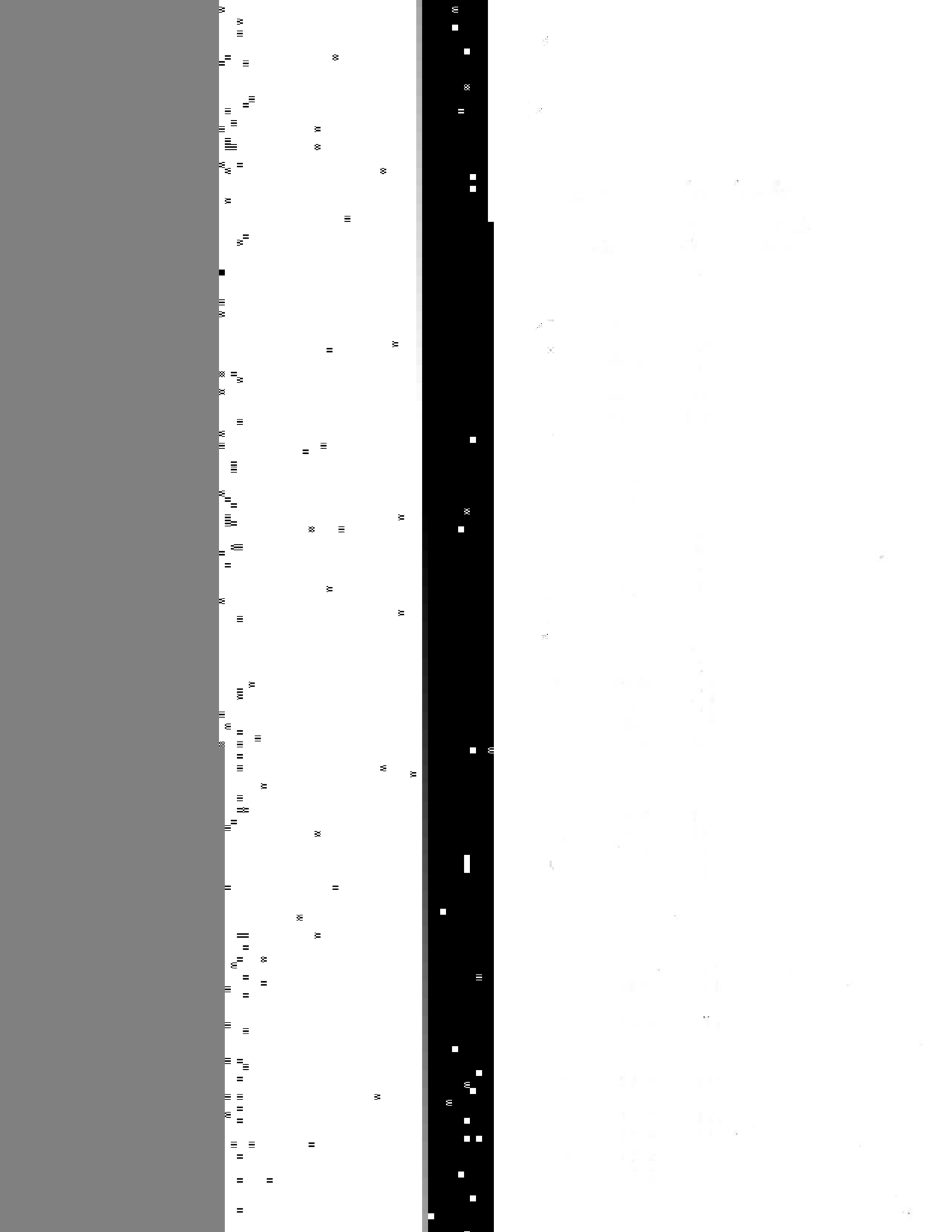


Table 5.2 continued







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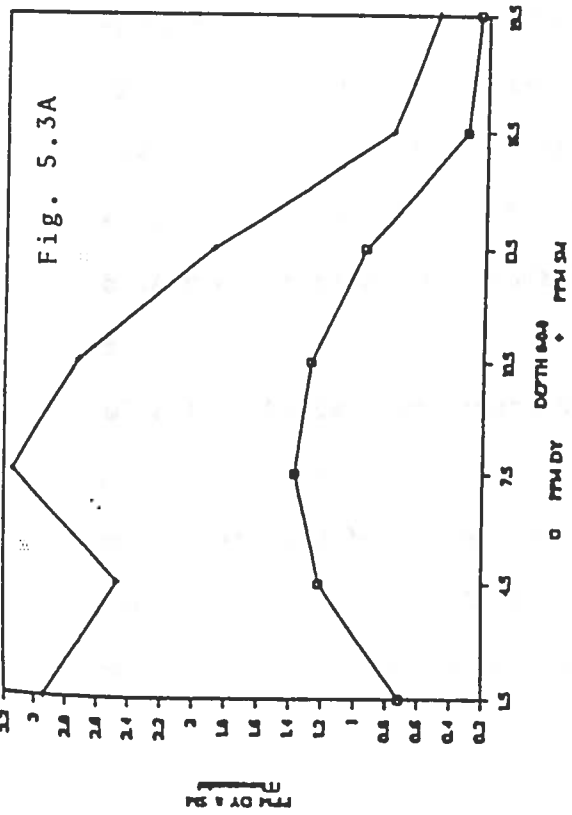
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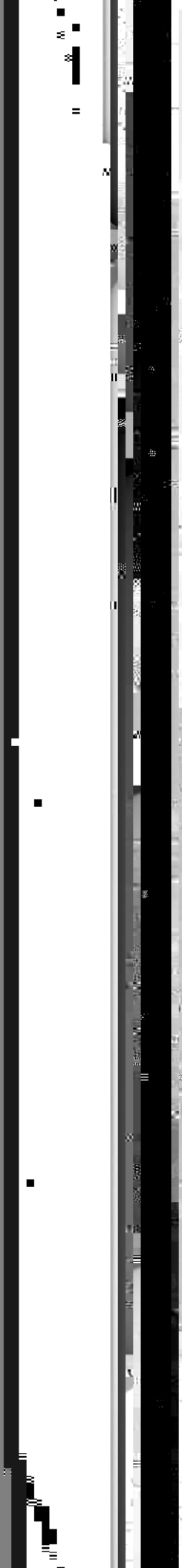
Leaf

Figure 5.3A-D. Marker distributions found at the Lafourche at Leeville natural transect distances into the marsh from the waterway of 0 m (Fig. 5.3A), 10 m (Fig. 5.3B), 30 m (Fig. 5.3C), and 50 m (Fig. 5.3D).

LEZAR / LAY TROVIG 8-11 / 2/77



III





DEPTH MARKER (MM)

DEPTH MARKER (MM)

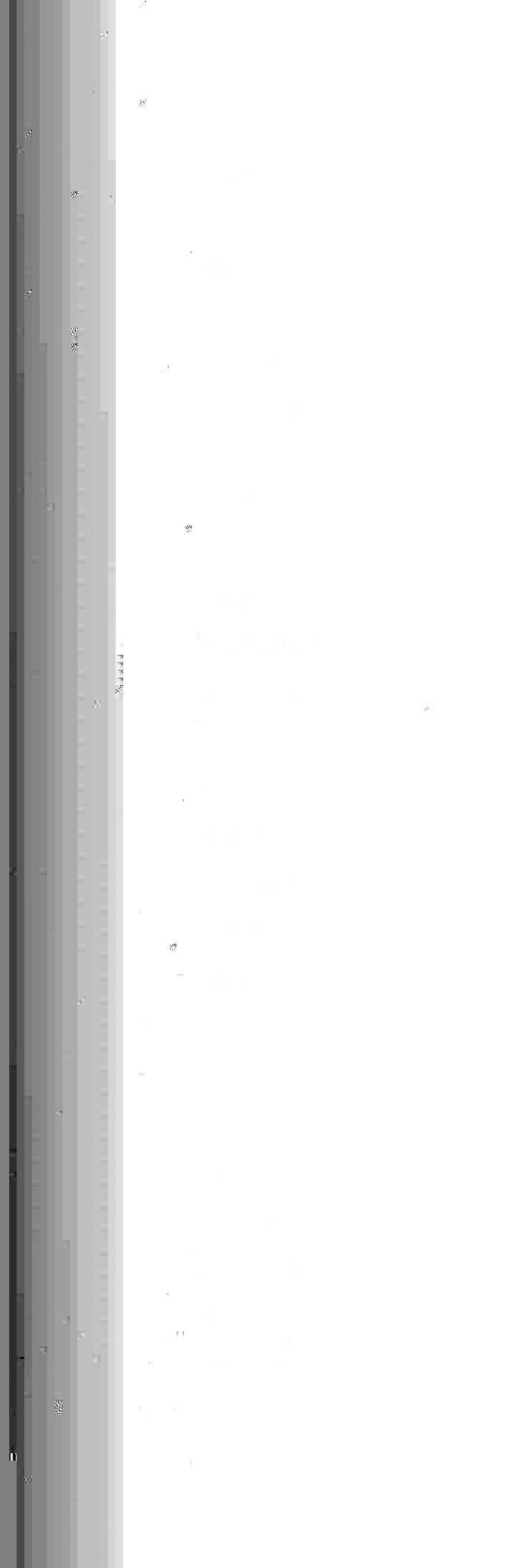






Figure 5.5A-B



DEPTH MARKER (MM)





DEPTH MARKER (MM)

range of 4.5 mm-16.5 mm. These means are probably representative of the entire Lafourche study area.











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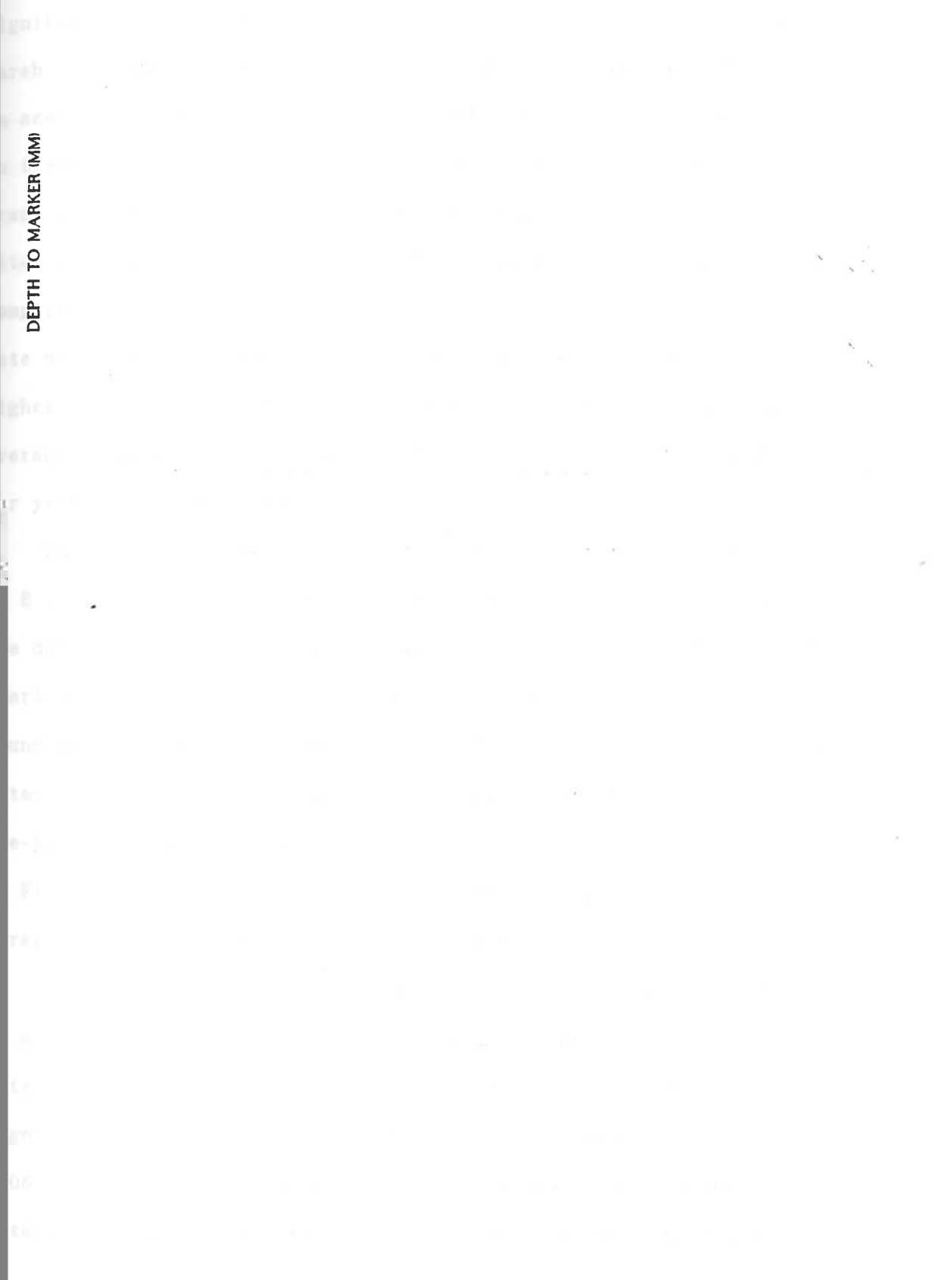


DEPTH TO MARKER (MM)



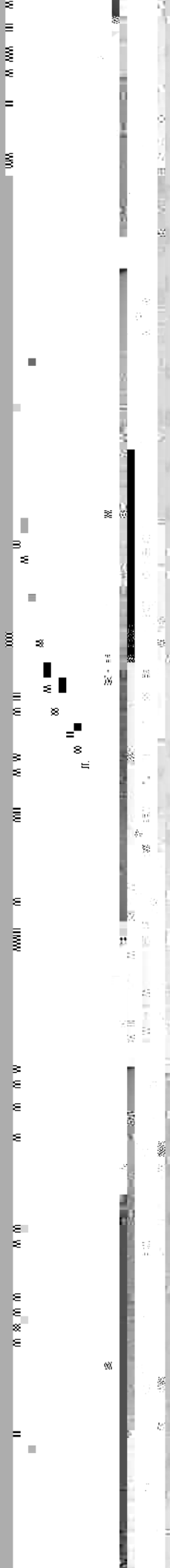


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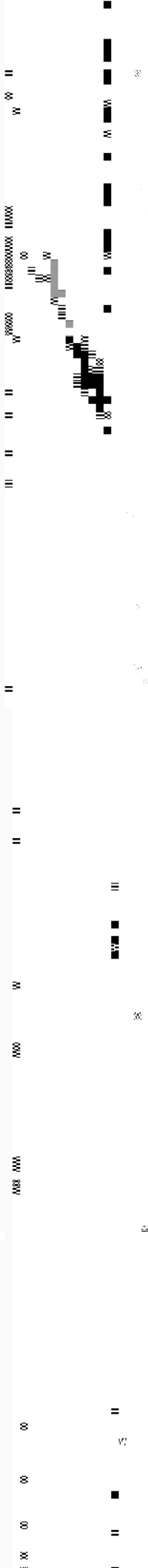






DEPTH TO MARKER (MM)





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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

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The third part of the document provides a detailed breakdown of the results. It shows that there has been a significant increase in sales over the period covered. This is attributed to several factors, including improved marketing strategies and better customer service.

Finally, the document concludes with a series of recommendations for future actions. It suggests that the company should continue to invest in research and development to stay ahead of the competition. Additionally, it recommends regular audits to ensure ongoing compliance with all relevant regulations.









Figure 5.14. A bimodal marker distribution from the Lac Des Allemands study area which seems to characteristic of that area.

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	1.60		5.28
	0.90		0.09
	0.80		2.40
	1.20		1.92
	2.14		4.49
	1.20		0.88
	1.03		6.80
	1.04		1.09
	0.59		0.88
	0.45		0.14
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		1.05	0.03
		1.05	0.72
		2.25	5.60





PPM DY AND SM

RELATIVE CONCENTRATION UNITS





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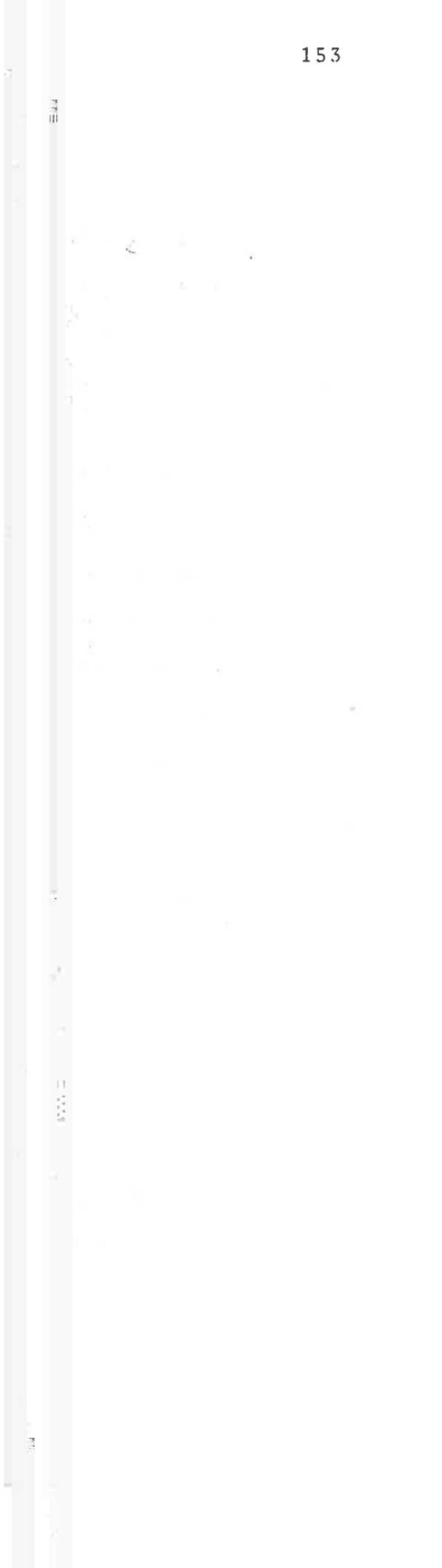
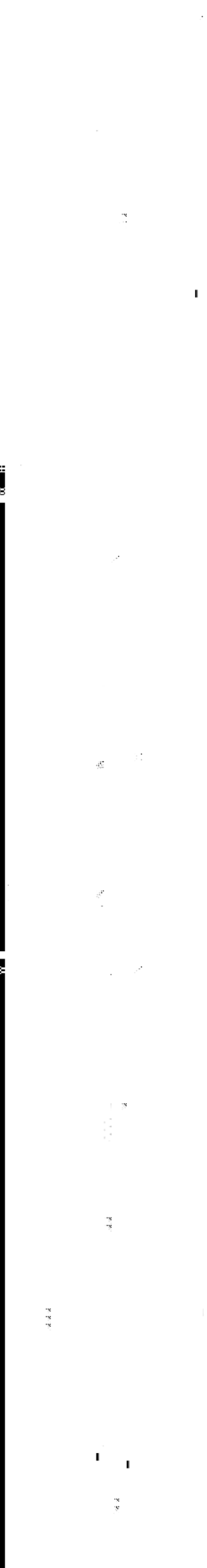
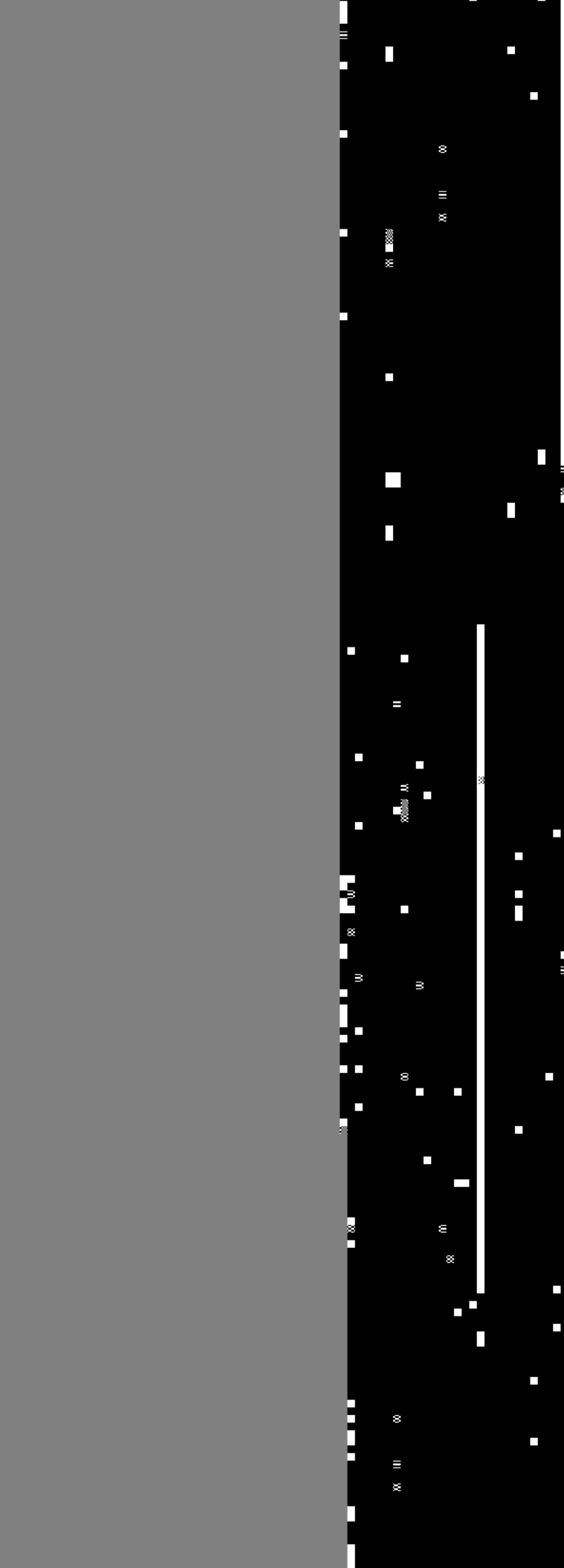
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CHAPTER 6

DISCUSSION





(Eq. 6-1)



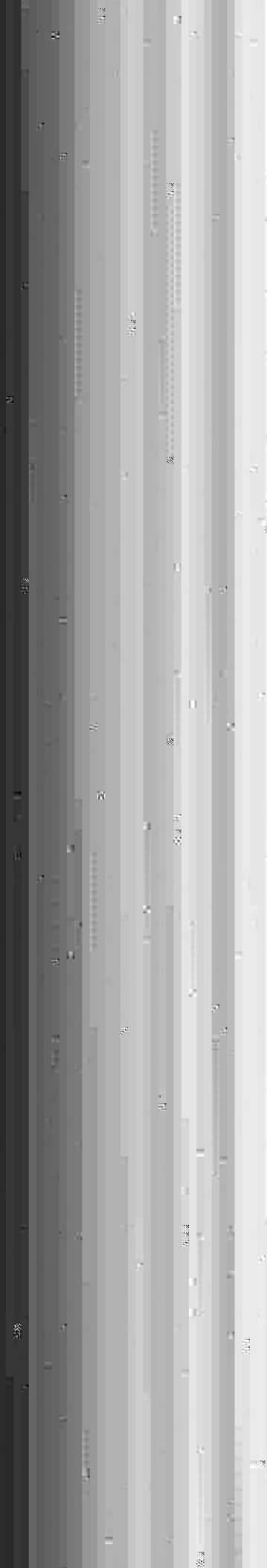
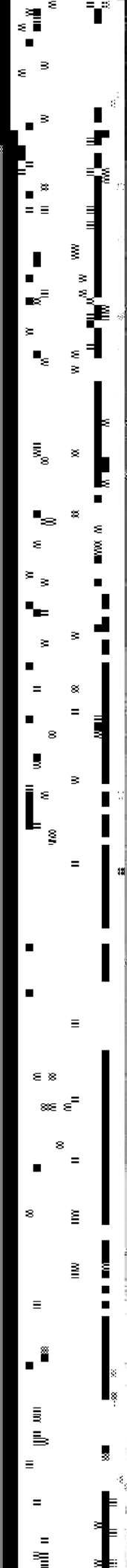
The first part of the paper discusses the importance of the study and the objectives of the research. It then proceeds to a literature review, followed by a description of the methodology used in the study. The results of the study are presented in the next section, followed by a discussion of the findings and their implications. The paper concludes with a summary of the main points and a list of references.

The study was conducted in a laboratory setting and involved a group of participants who were asked to perform a series of tasks. The tasks were designed to measure the participants' ability to perform under different conditions. The results of the study showed that the participants performed better under certain conditions than others. This finding has important implications for the field of research.

The study was limited in several ways. First, the sample size was relatively small, which may have affected the generalizability of the findings. Second, the study was conducted in a laboratory setting, which may not have fully captured the complexity of the real world. Finally, the study did not include a control group, which may have affected the validity of the results.

In conclusion, the study found that the participants performed better under certain conditions than others. This finding has important implications for the field of research. The study was limited in several ways, including a small sample size, a laboratory setting, and the lack of a control group.









The following table shows the results of the experiment. The data is presented in a table format with columns for the different conditions and rows for the different variables. The table is rotated 90 degrees counter-clockwise.

Condition	Variable 1	Variable 2	Variable 3
Condition A	1.2	0.8	1.5
Condition B	0.9	1.1	1.3
Condition C	1.4	0.7	1.6
Condition D	1.0	1.0	1.4
Condition E	1.3	0.9	1.5
Condition F	0.8	1.2	1.3
Condition G	1.1	0.8	1.4
Condition H	1.5	0.7	1.6
Condition I	1.0	1.0	1.4
Condition J	1.3	0.9	1.5
Condition K	0.9	1.1	1.3
Condition L	1.4	0.7	1.6
Condition M	1.0	1.0	1.4
Condition N	1.3	0.9	1.5
Condition O	0.8	1.2	1.3
Condition P	1.1	0.8	1.4
Condition Q	1.5	0.7	1.6
Condition R	1.0	1.0	1.4
Condition S	1.3	0.9	1.5
Condition T	0.9	1.1	1.3
Condition U	1.4	0.7	1.6
Condition V	1.0	1.0	1.4
Condition W	1.3	0.9	1.5
Condition X	0.8	1.2	1.3
Condition Y	1.1	0.8	1.4
Condition Z	1.5	0.7	1.6

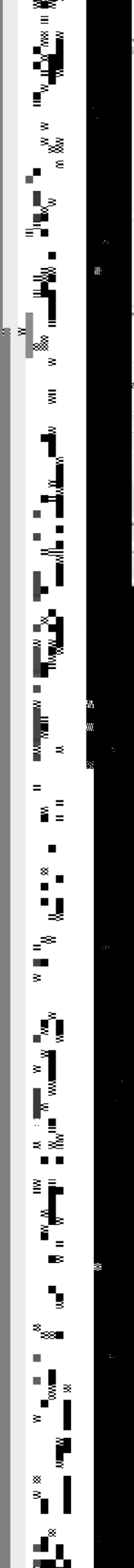
The data shows that the results are consistent across the different conditions, with the values for the variables being relatively stable. The table is rotated 90 degrees counter-clockwise.



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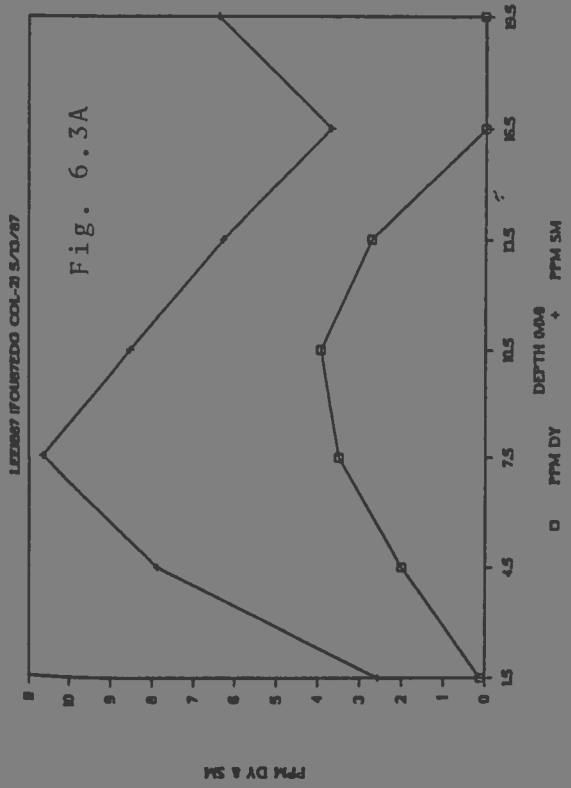








Figure 6.3A-D. This series of figures were selected from the available marker distributions graphs on the basis of familial similarities demonstrating the "process signature" concept.



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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This not only helps in tracking expenses but also ensures compliance with tax regulations.

In the second section, the author provides a detailed breakdown of the monthly budget. It includes categories for housing, utilities, food, and entertainment. The goal is to allocate funds wisely to avoid overspending and to save for future needs.

The third section covers the topic of debt management. It suggests creating a repayment schedule for all outstanding loans and credit cards. Regular payments are crucial to avoid penalties and to improve one's credit score.

Finally, the document concludes with advice on emergency fund building. It recommends setting aside a portion of each month's income into a separate savings account. This fund acts as a safety net in case of unexpected financial challenges.

be of considerable value in future marsh management and restoration schemes.







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## APPENDICES



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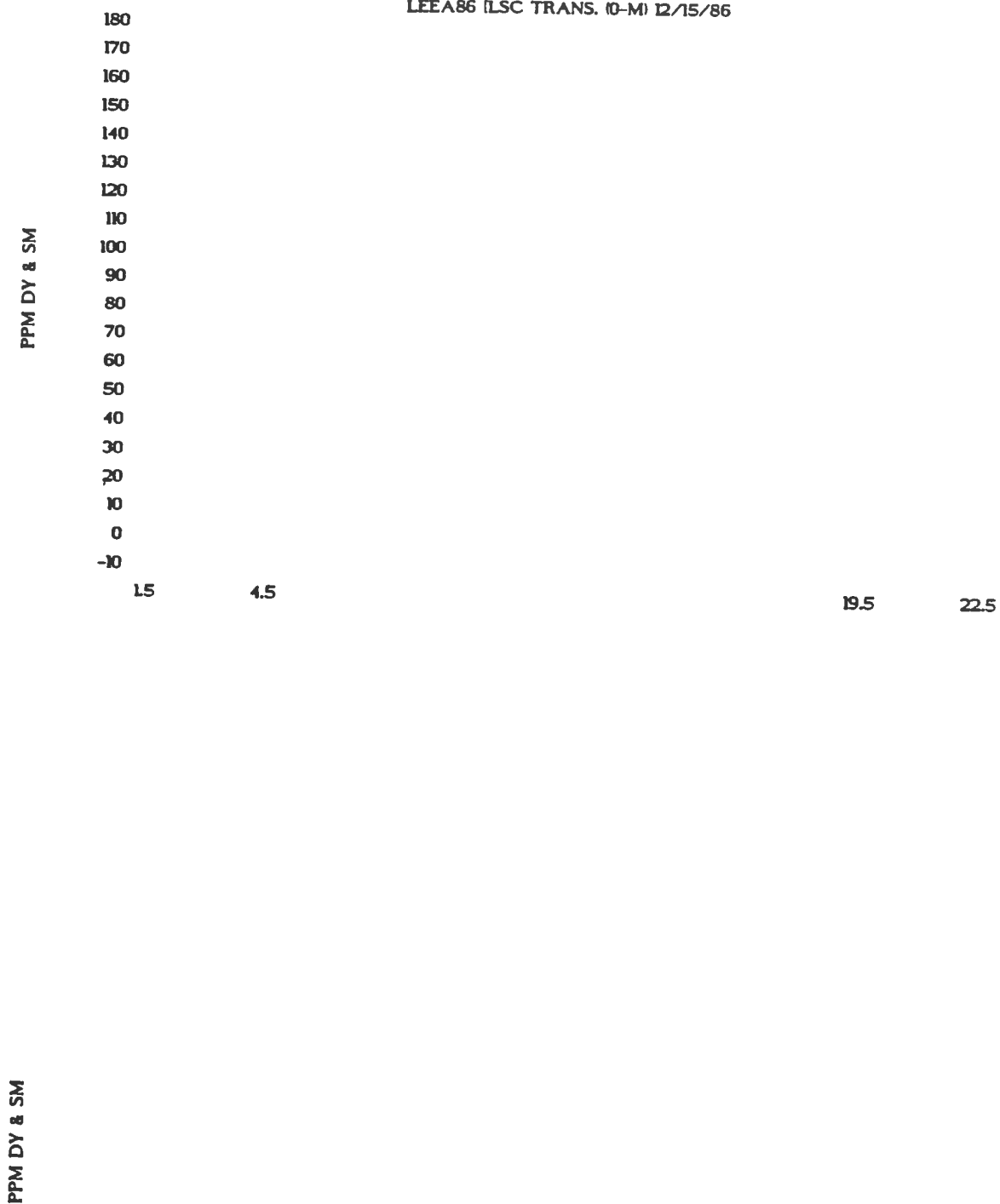
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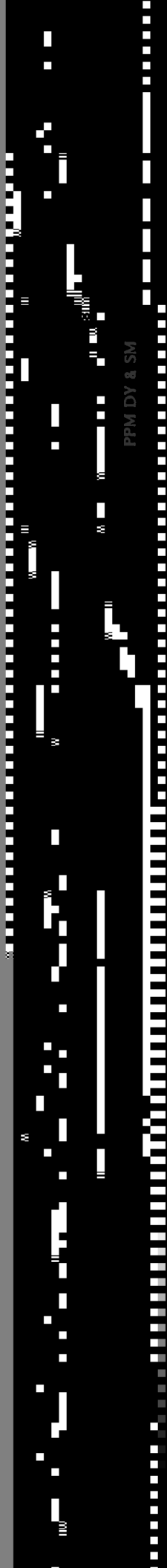
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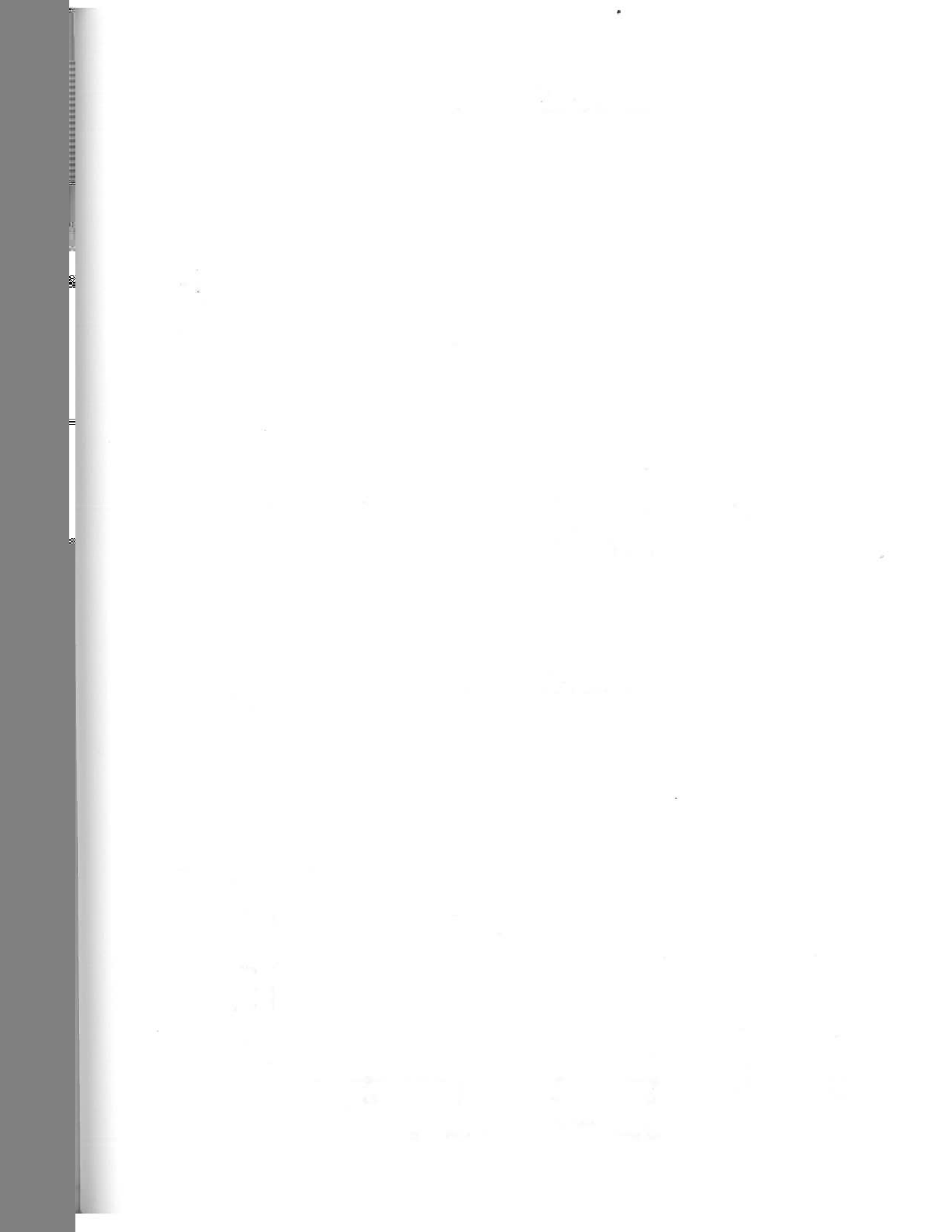
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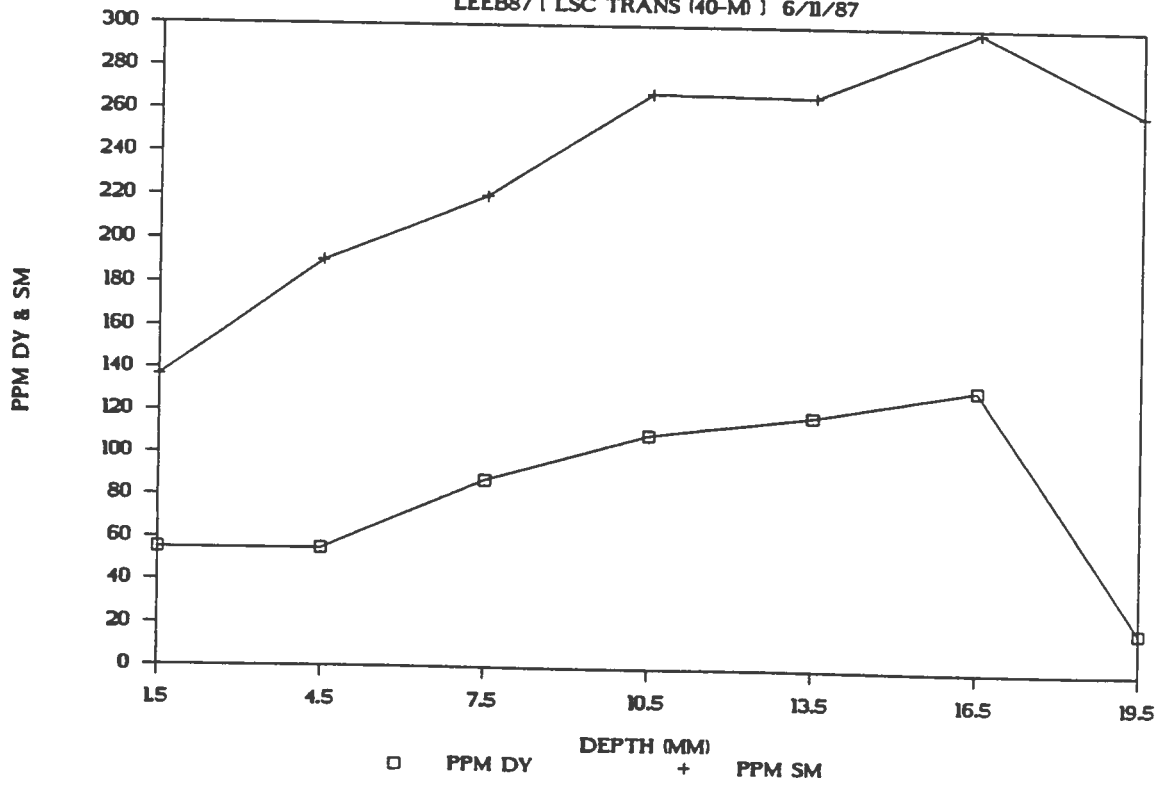
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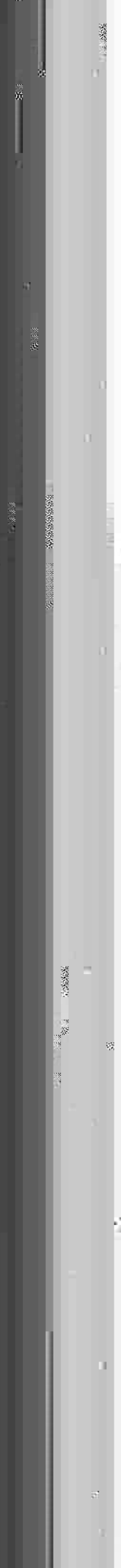


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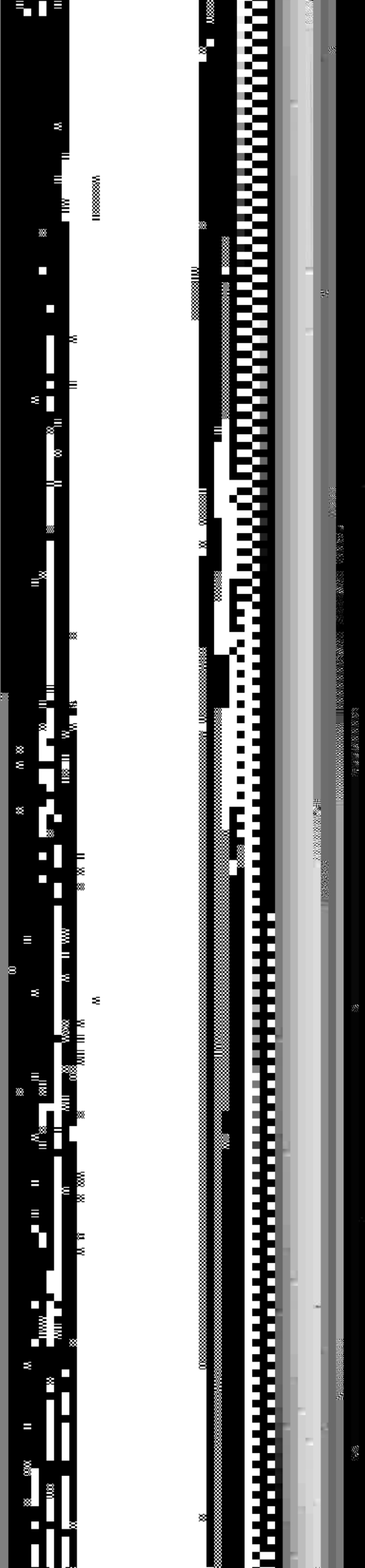
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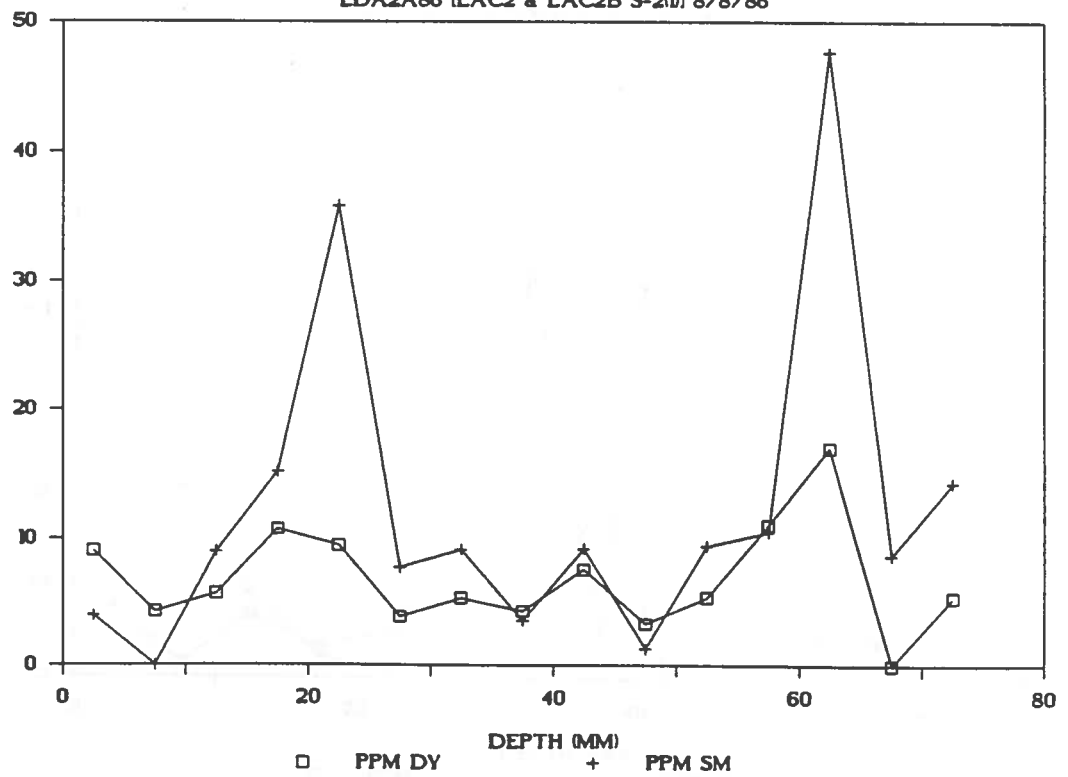
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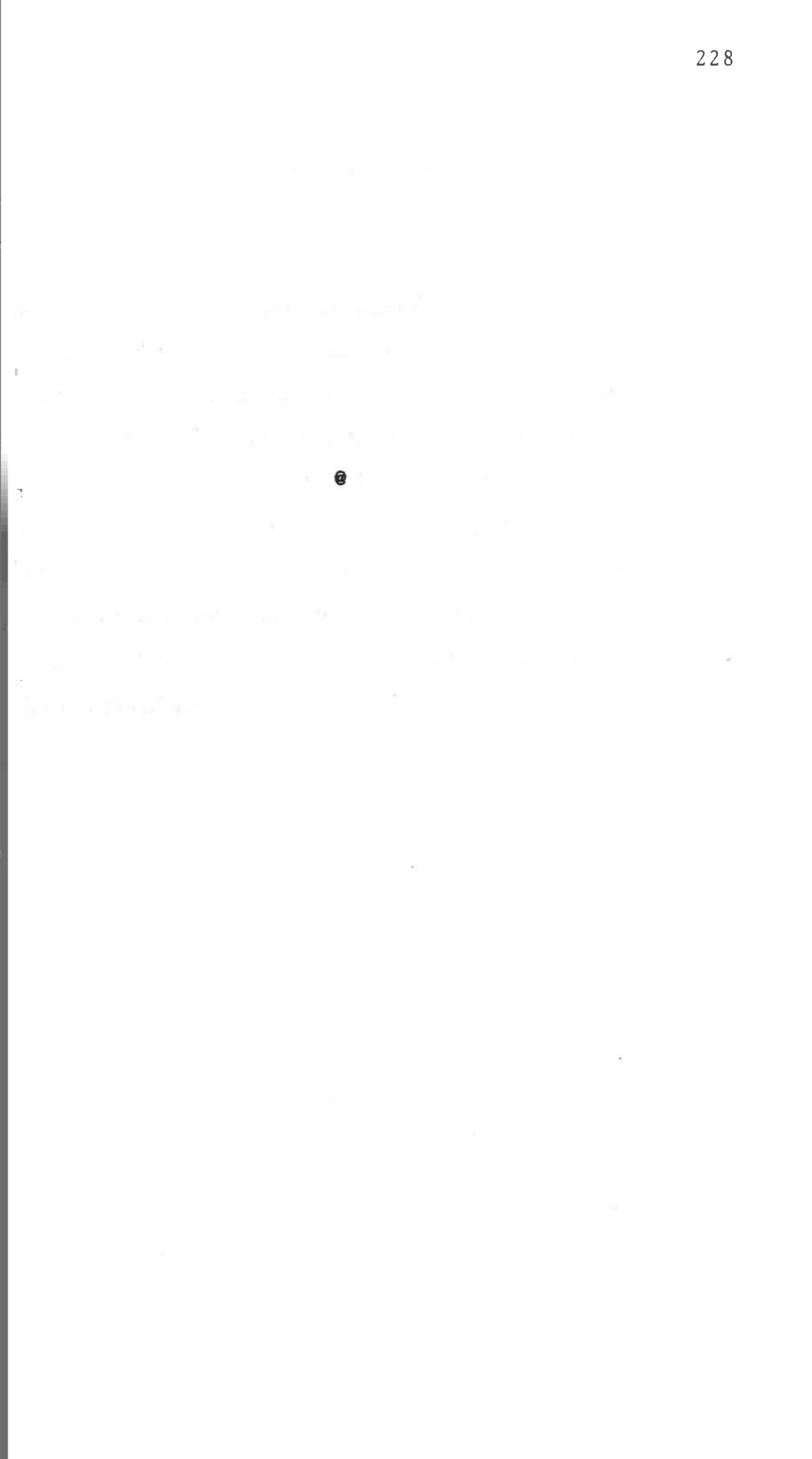
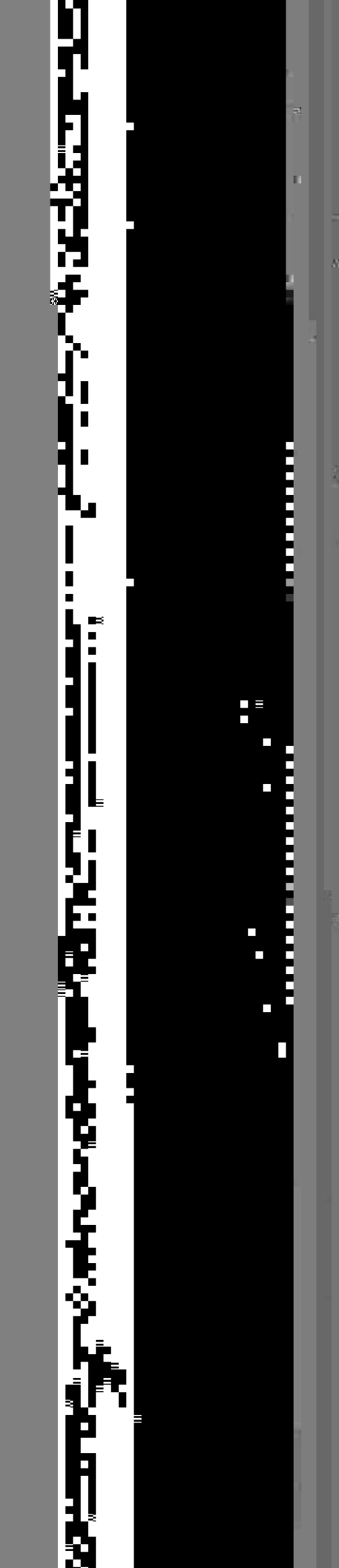




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**APPENDIX B**  
**COST ANALYSIS**



**VITA**

MASTER'S EXAMINATION AND THESIS REPORT

Daniel L. Van Gent

Date of Examination:

April 12, 1988