

**NASA TECHNICAL
MEMORANDUM**



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1). PART 2: GRAPHICAL PRESENTATION OF
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**DATA FOR FIRST NASA
ATMOSPHERIC VARIABILITY
EXPERIMENT (AVE I)**

Part II: Graphical Presentation of Data

by James R. Scoggins and Orvel E. Smith

George C. Marshall Space Flight Center

Marshall Space Flight Center, Ala. 35812

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**DATA FOR FIRST NASA
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Part II: Graphical Presentation of Data

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George C. Marshall Space Flight Center

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15. SUPPLEMENTARY NOTES This report is published to make available a unique set of atmospheric data records for research use by the scientific community. The project was conducted under the operational direction of Mr. Robert E. Turner of MSFC.					
16. ABSTRACT This report presents a graphical representation of data for NASA's first Atmospheric Variability Experiment (AVE I) conducted during the period February 19-22, 1964. Graphical representation is in the form of synoptic charts and time cross section. Data taken on the AVE I project in 1964 enabled an analysis of a large sector of the eastern United States on a fine resolution time scale. This experiment was run in February 1964, and data were collected as a wave developed in the East Gulf on a frontal system which extended through the eastern part of the United States. The primary objective of AVE I was to investigate the variability of parameters in space and over time intervals of three hours, and to integrate the results into NASA programs which require this type of information. The results presented in this report are those from one approach, and represent only a portion of the total research effort that can be accomplished. This report consists of two parts: Part I - Data Tabulation and Part II - Graphical Presentation of Data.					
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TABLE OF CONTENTS

	Page
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I. Introduction	1
II. Graphical Presentation of Data	2
A. National Weather Service Surface Charts	2
B. Synoptic Charts Prepared from AVE I Data	2
C. Time Cross Sections Prepared from AVE I Data	2
III. Comments	3
Surface Synoptic Charts prepared by the National Weather Service for the period February 17-23, 1964	5
Synoptic Charts prepared from AVE I Data for the period 1500 GMT February 19 - 0000 GMT February 23, 1964	15
Time Cross Sections Prepared from AVE I Data	73

ACKNOWLEDGEMENTS

The authors wish to thank Mr. Victor Corbelli and Mr. Raymond Boucher for finalizing the synoptic charts and cross sections, and Miss Marilyn Kocurek for typing and assembling both parts.

DATA FOR FIRST NASA ATMOSPHERIC VARIABILITY EXPERIMENT (AVE I)

by

James R. Scoggins¹
Texas A&M University
College Station, Texas

and

Orvel E. Smith²
NASA Marshall Space Flight Center
Huntsville, Alabama

I. Introduction

Part I of this report contains a description of the AVE I experiment, a discussion of the basic data including its collection and methods of processing, estimates of data accuracies, and a tabulation of all sounding data which was collected as part of the AVE I experiment. This report (Part II) presents a graphical presentation of the AVE I data in the form of constant-pressure charts and time cross sections of various meteorological variables. In addition, surface charts prepared by the National Weather Service are included. These charts contain surface weather and cloud information which is not portrayed on the constant-pressure charts prepared from the AVE I data.

The primary purpose of the graphical presentation of the AVE I data is to display the time and space changes in various meteorological parameters over time intervals for which sounding data are usually not available, and to provide the information in a form which would make it possible for a

¹Professor of Meteorology and Director, Center for Applied Geosciences.
²Chief, Terrestrial Environment Branch, Aerospace Environment Division.

researcher to isolate regions of the atmosphere where changes occur in space and/or time which might be of interest to him in his research.

II. Graphical Presentation of Data

A. National Weather Service Surface Charts

Surface charts prepared by the National Weather Service and valid at 0100 EST on each day from February 17-23, 1964 are presented. An explanation of these charts will not be given since they are standard and contain no unusual type of information.

B. Synoptic Charts Prepared from AVE I Data

Constant-pressure charts are presented for the 1000-, 850-, 700-, 500-, 400-, 300-, 200-, and 100-mb levels at intervals of three hours for the entire period of the AVE I experiment. These charts contain height contours and isotherms. Height contours are labelled in meters or tens of meters and with the first and last digits dropped as appropriate. Isotherms have units of degrees Celsius. Fronts were entered on the charts when it was believed that their position could be determined with reasonable certainty.

C. Time Cross Sections Prepared from AVE I Data

Time cross sections with the vertical coordinate as pressure on a linear scale were prepared for nine meteorological variables for each AVE I station. Cross sections were prepared for potential temperature, ambient temperature, dewpoint temperature, zonal wind speed, meridional wind speed, scalar wind speed, relative humidity, dewpoint depression, and geopotential height. Units for each variable are shown on the respective cross section. Intervals for which contours were drawn were held constant insofar as possible, but in areas where the gradient became so large that

it was impossible to draw all contours it was necessary to vary the interval. In cases where the interval was not constant a note appears on the cross section. An "M" was entered at the top of the cross section to indicate missing data, while an "X" was used to indicate questionable or erroneous data. In most instances when two or more soundings were missing the analysis of the cross section is discontinuous. In a few instances, such as in the analysis of height fields, where the variable changes very little with time the analysis was continuous even though two or more soundings were missing. Centers enclosed by contours were labelled in actual values when the interval was not constant.

Cross sections for two stations, Mississippi Test Facility and Huntsville, Alabama, obtained sounding data at intervals of $1\frac{1}{2}$ hours while the interval for all other stations was 3 hours. Cross sections were prepared for these two stations for the same period of time as the other cross sections but with twice as much data.

III. Comments

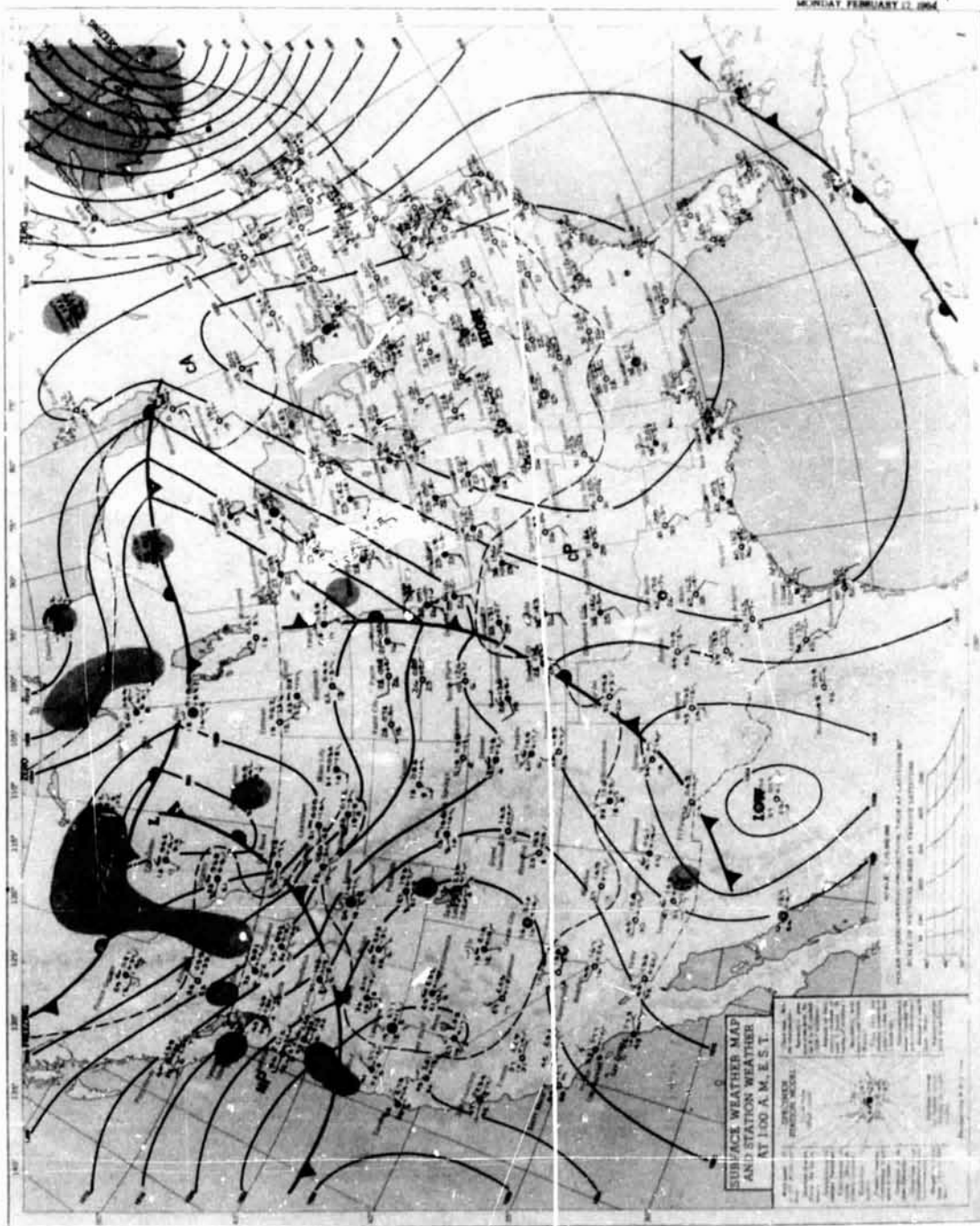
The analysis of the AVE I data presented in this report is designed to portray the large time and space variations in the structure of the atmosphere, and to provide a means for delineating areas which exhibit changes in meteorological variables and conditions which might be of particular interest to a researcher. While the analysis was done with reasonable care, each scientist using the data will no doubt want to perform his own analysis.

Surface Synoptic Charts
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for the period
February 17-23, 1964

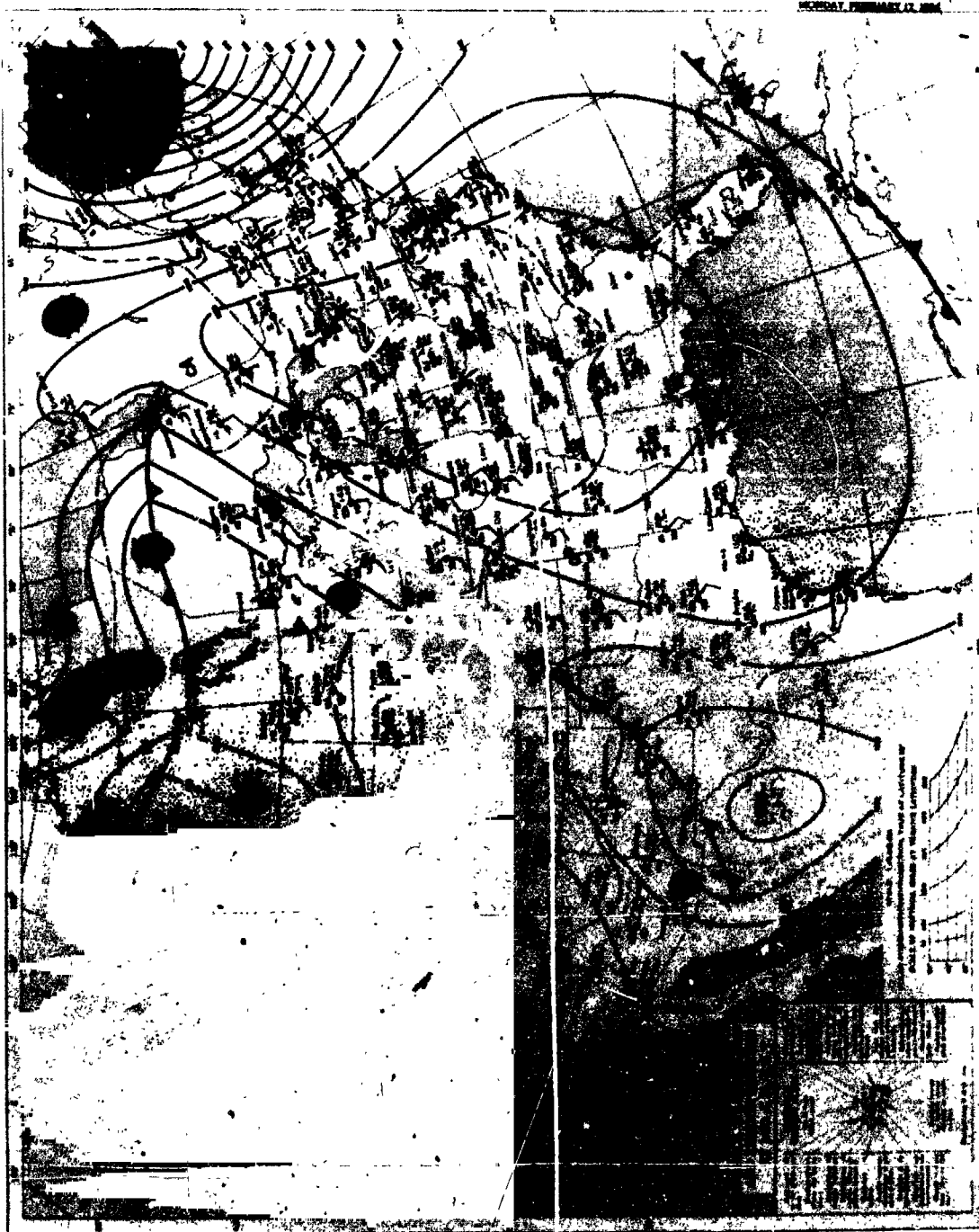
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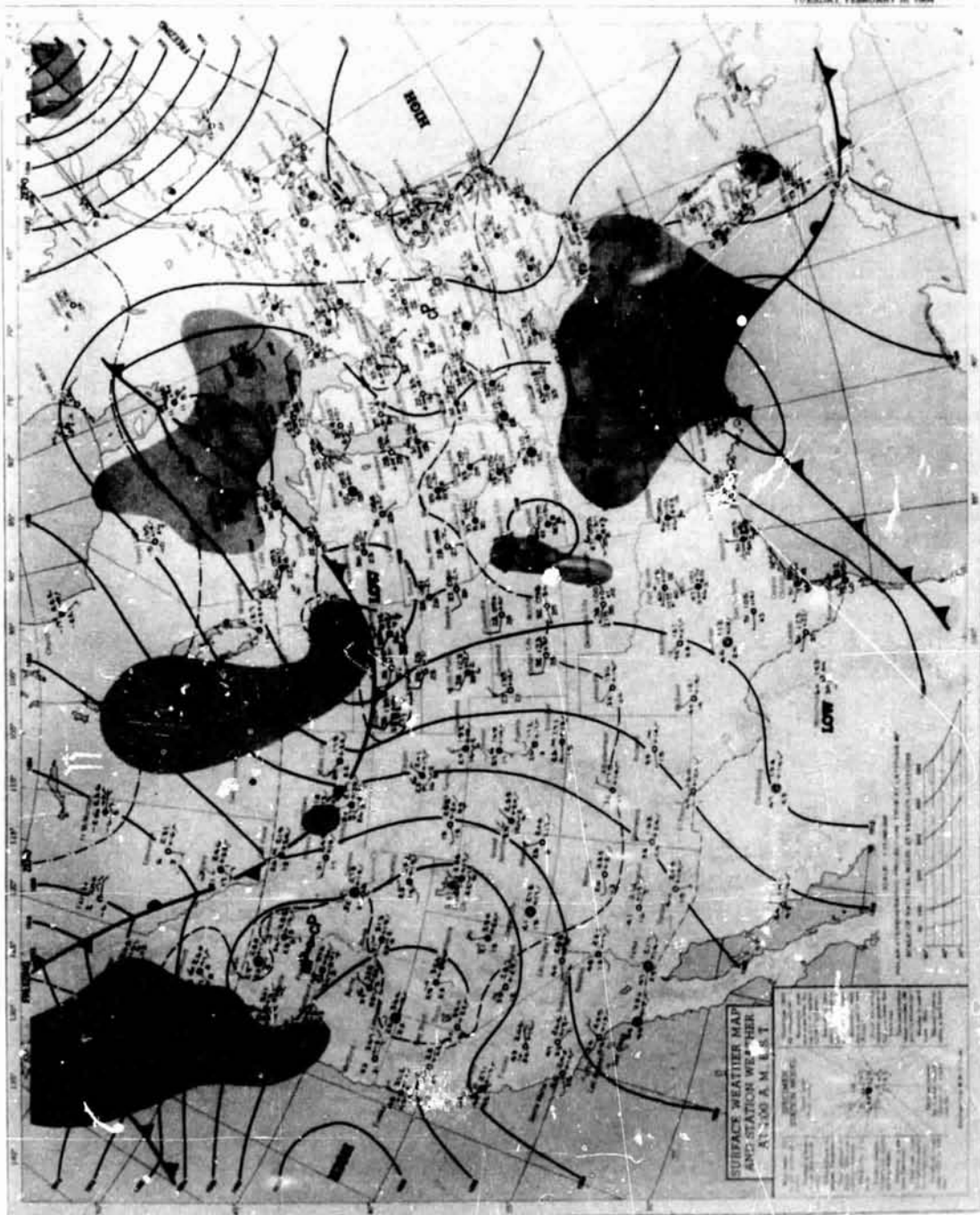
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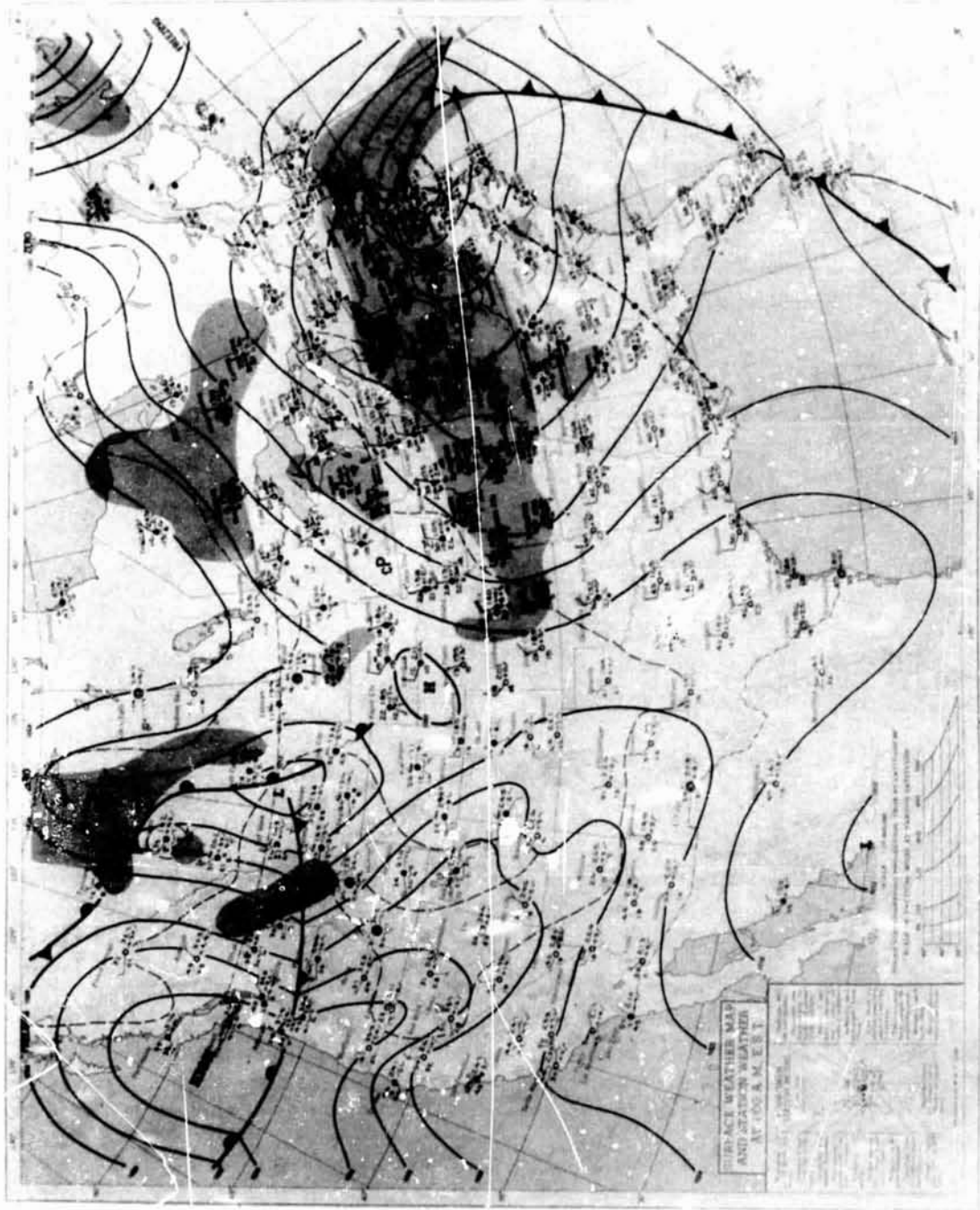


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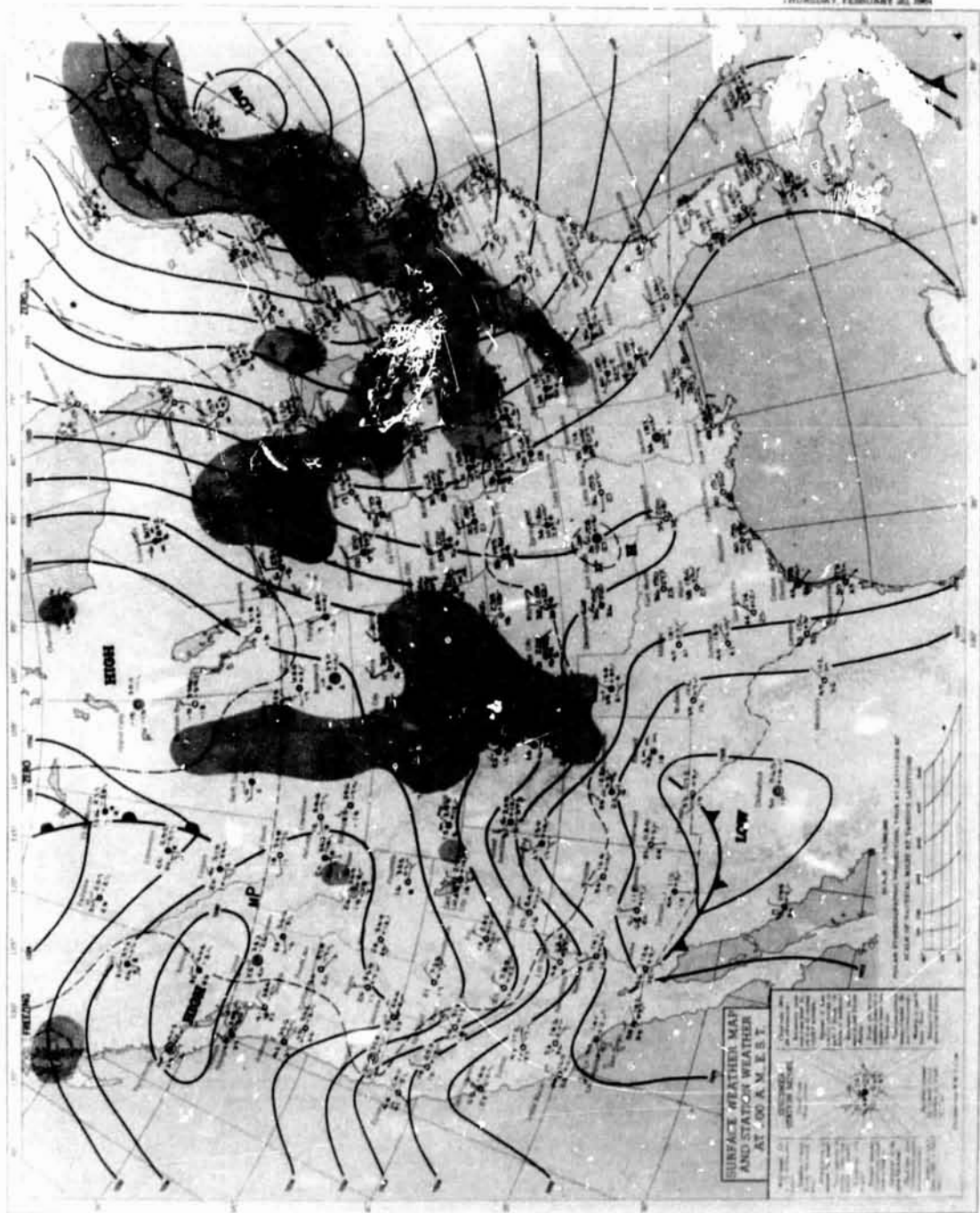


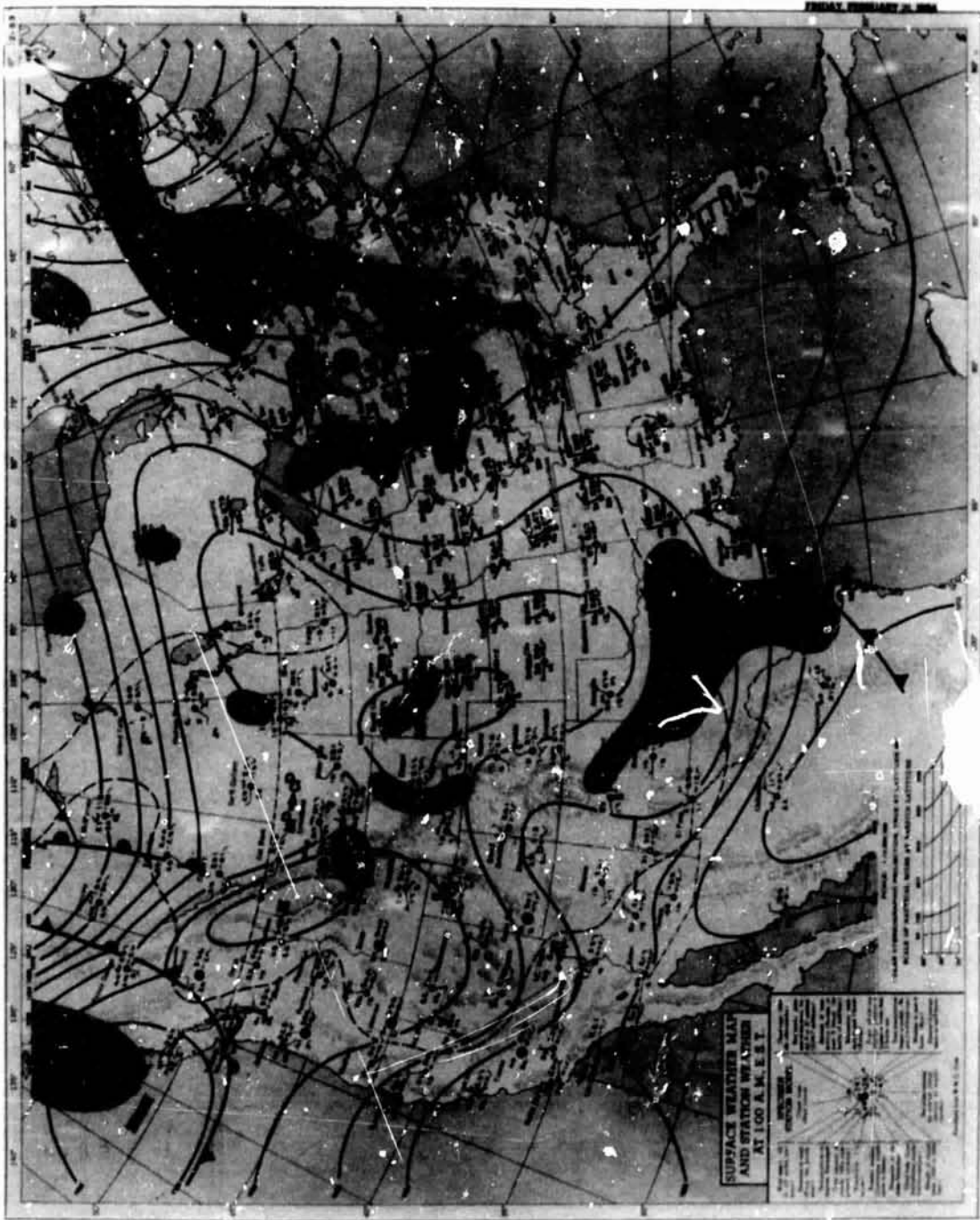
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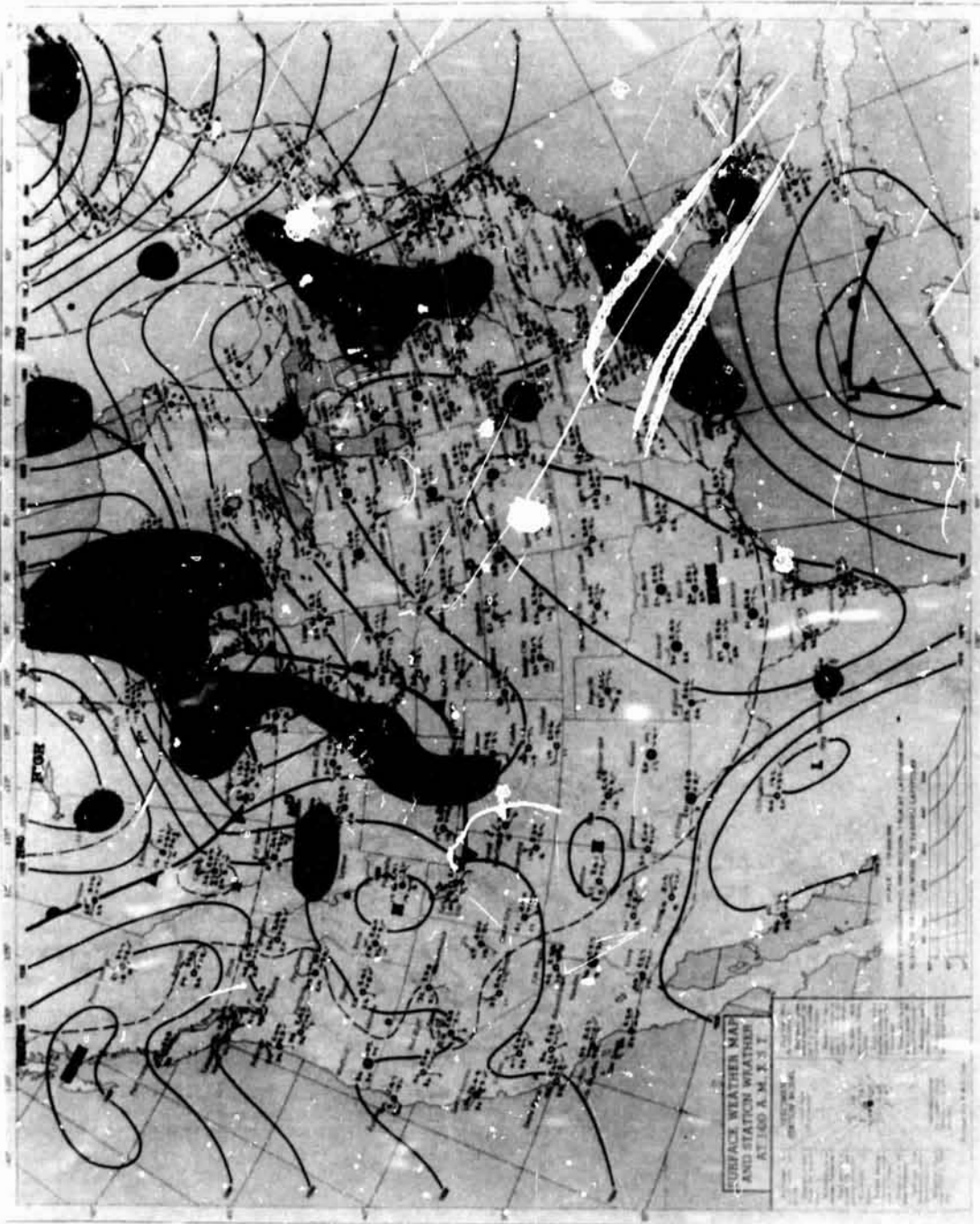


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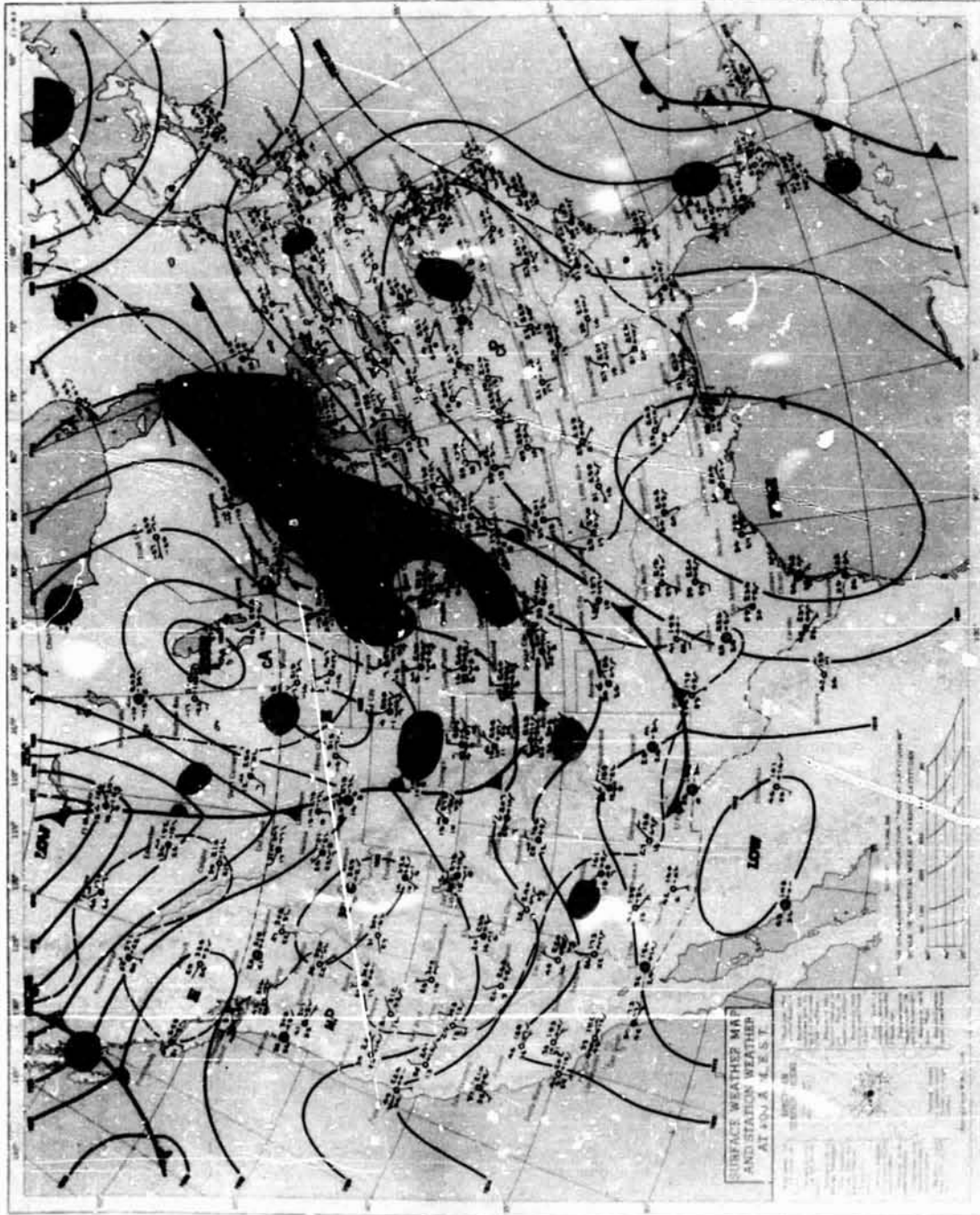




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SUNDAY, FEBRUARY 23, 1964



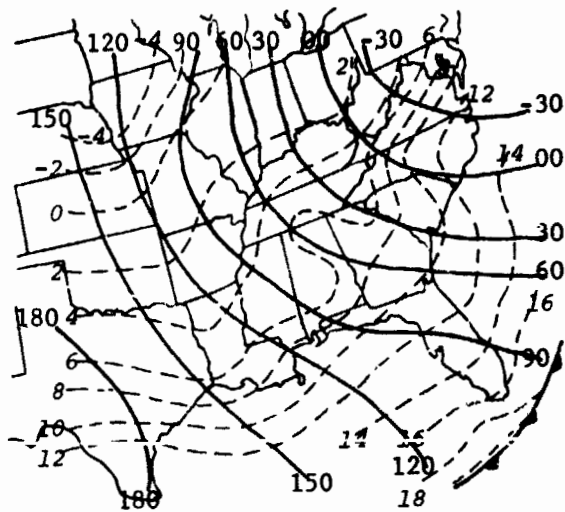
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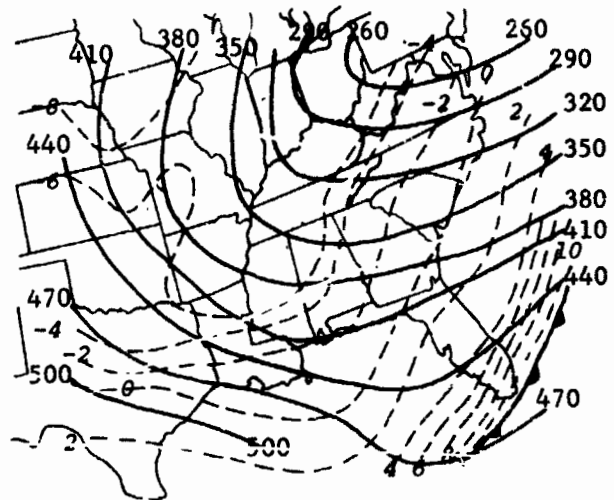
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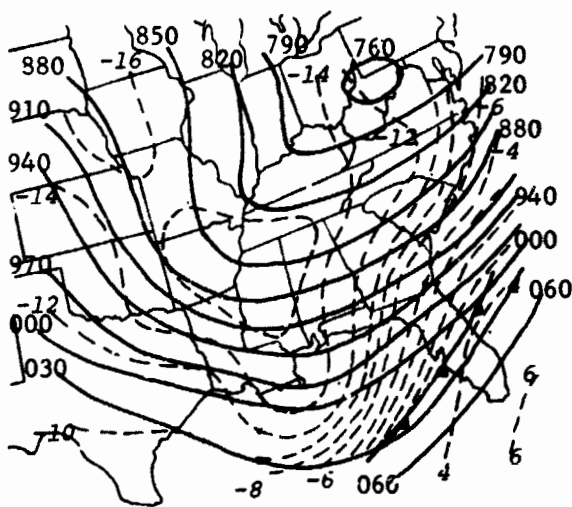
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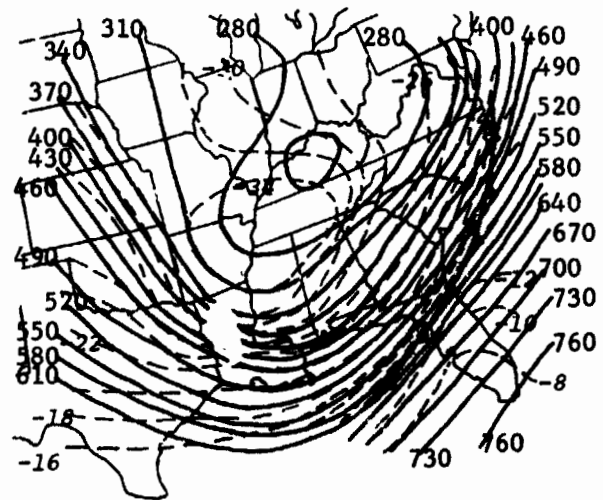
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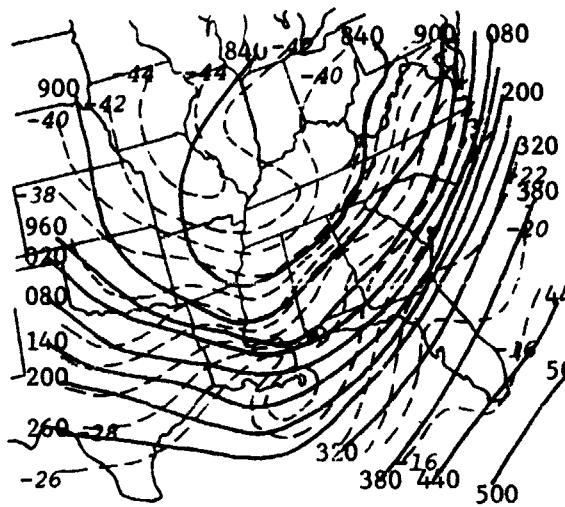


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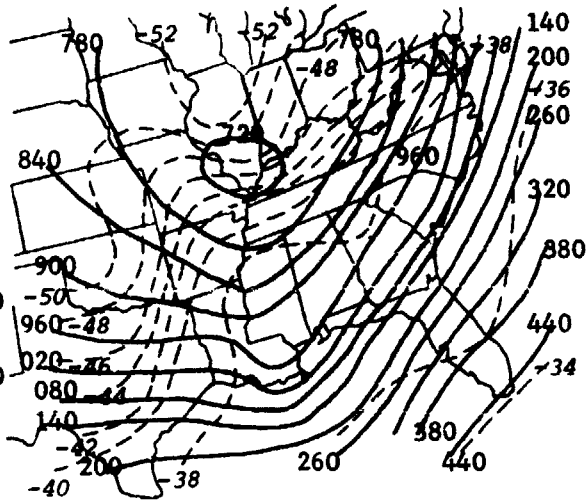


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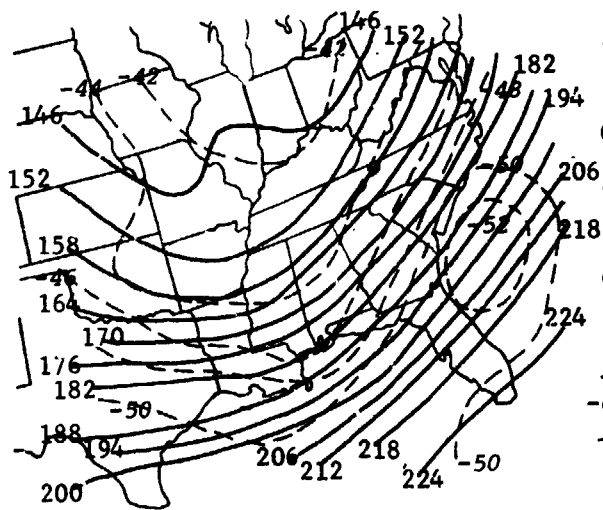
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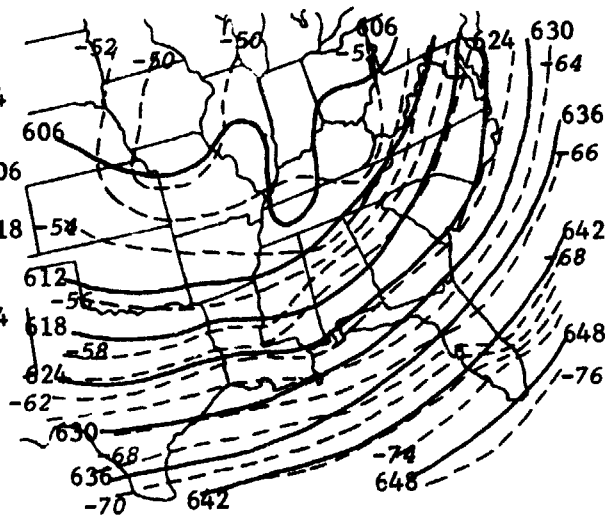
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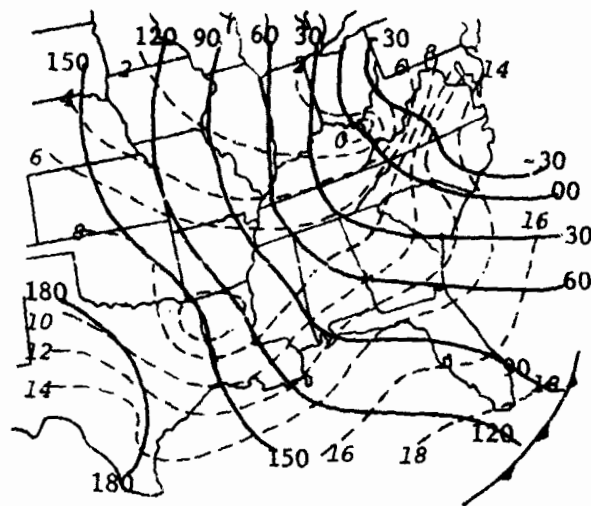


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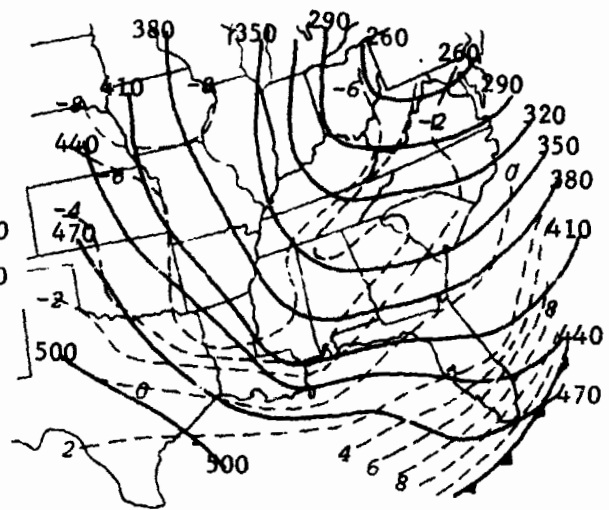


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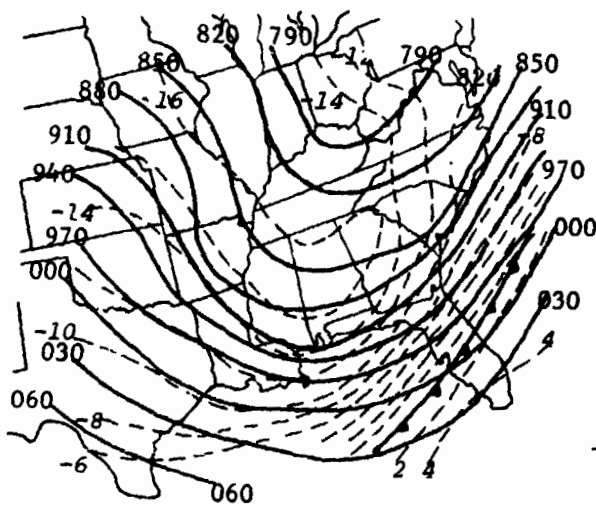
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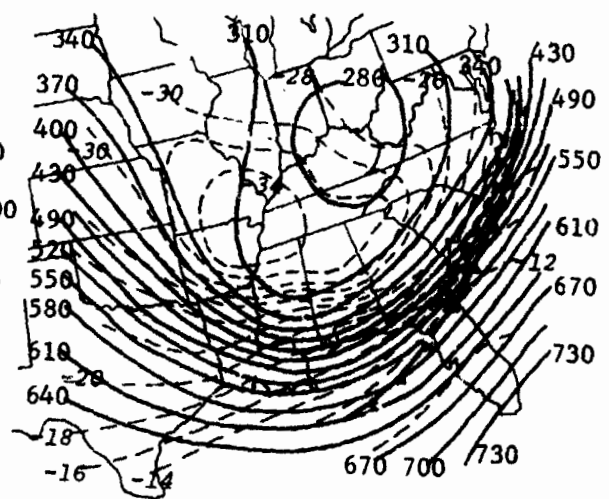
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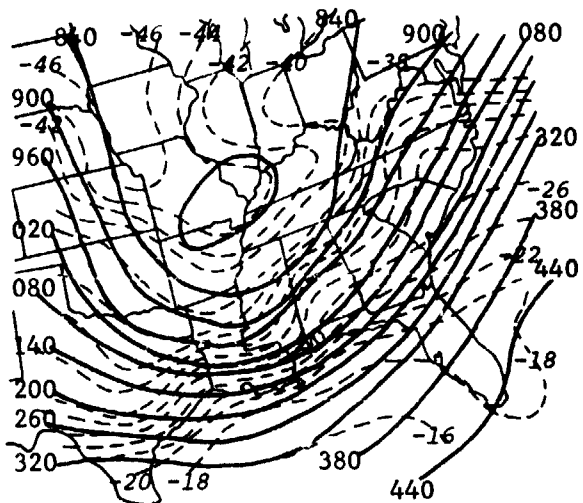


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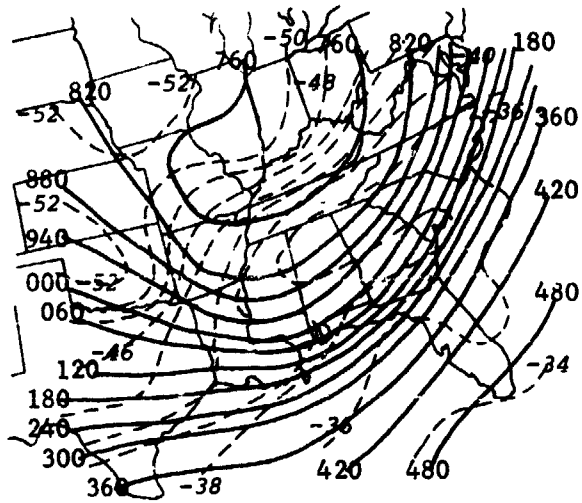


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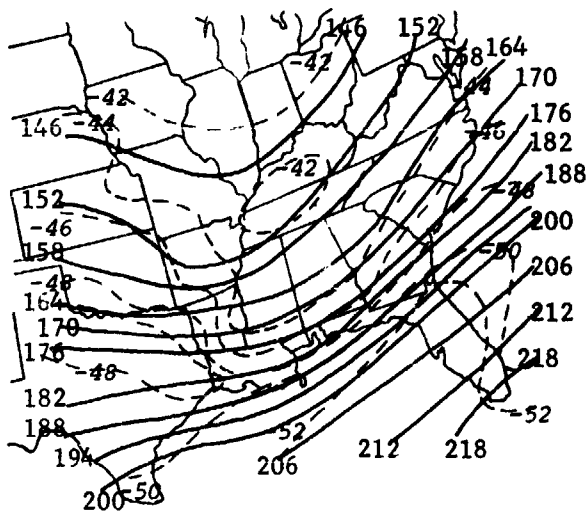
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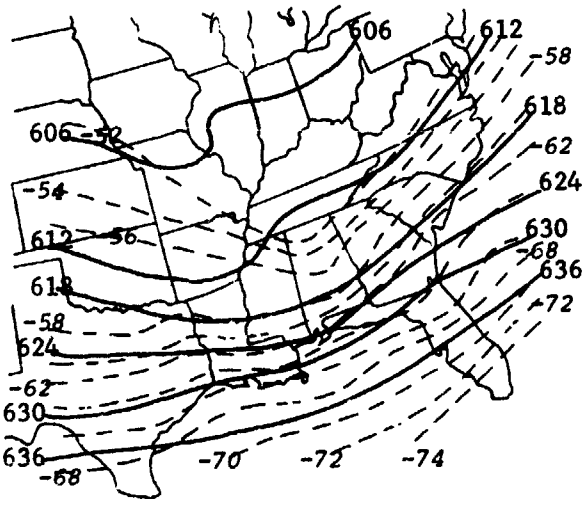
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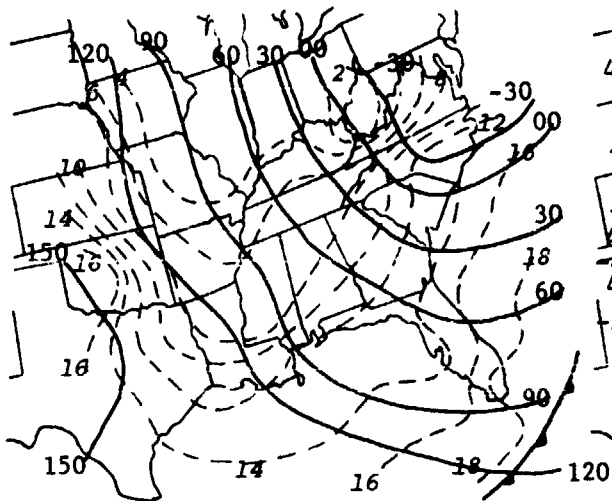


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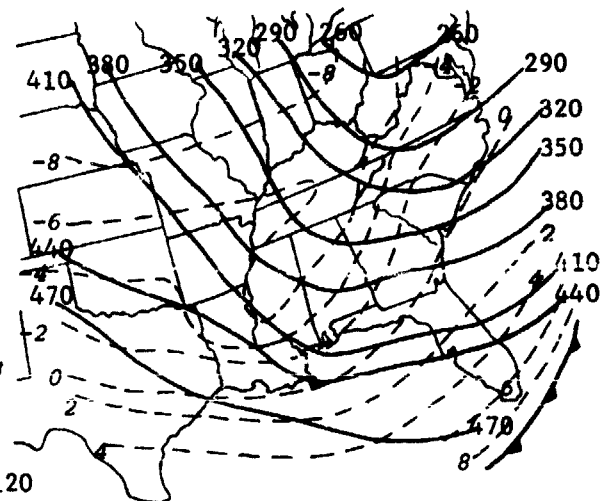


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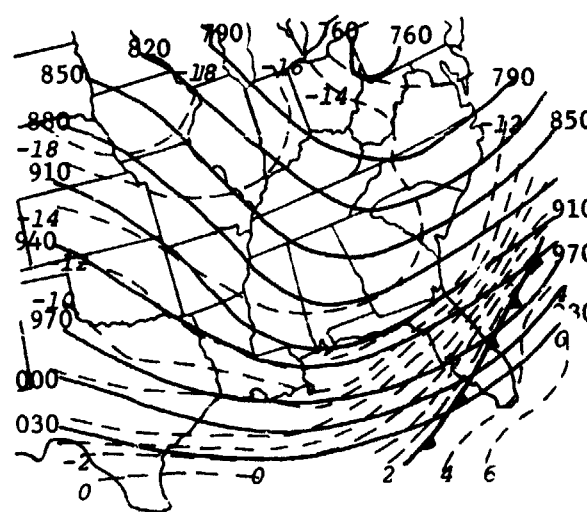
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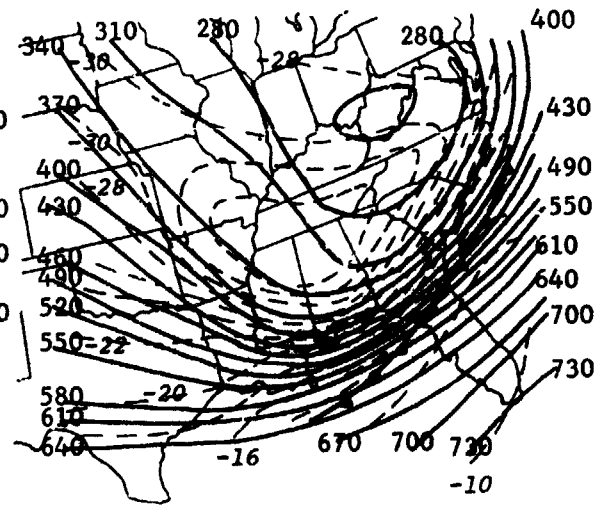
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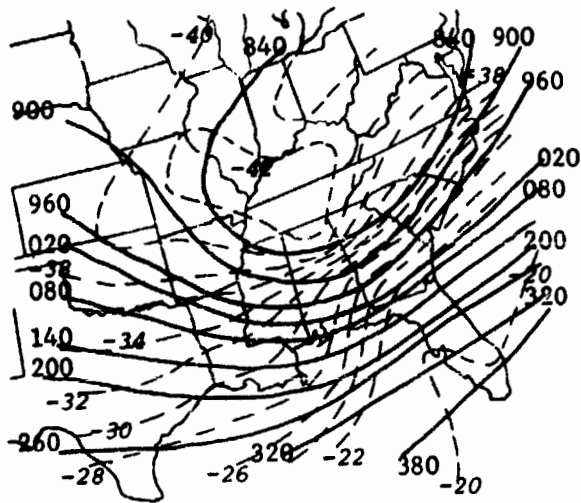


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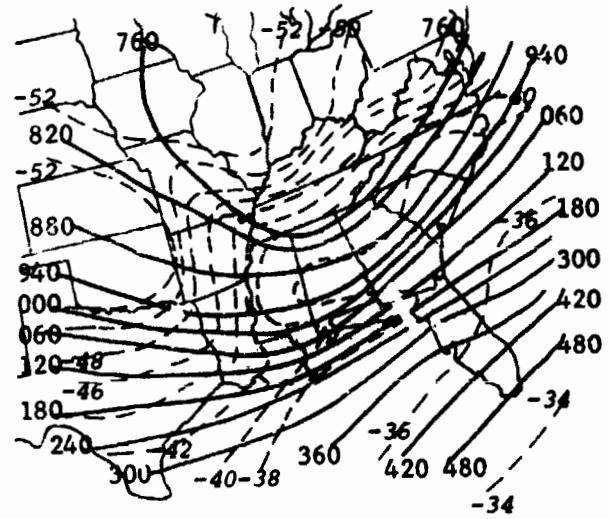


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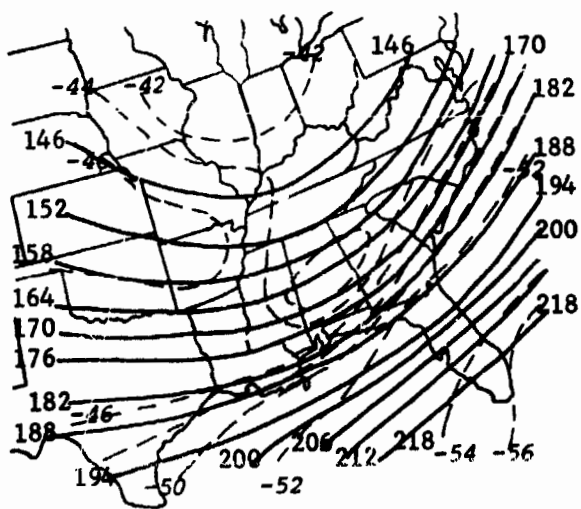
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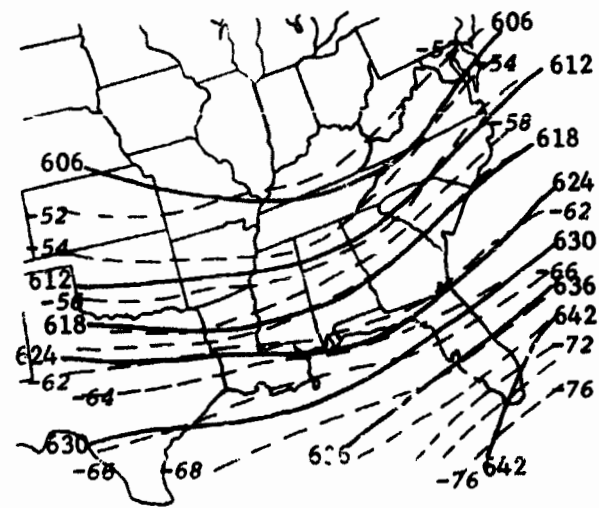
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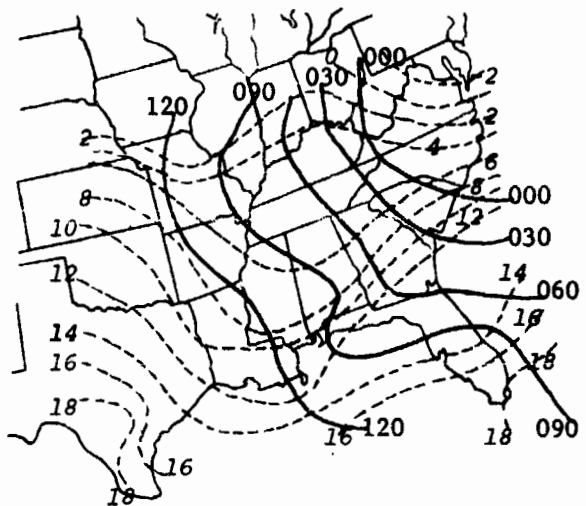


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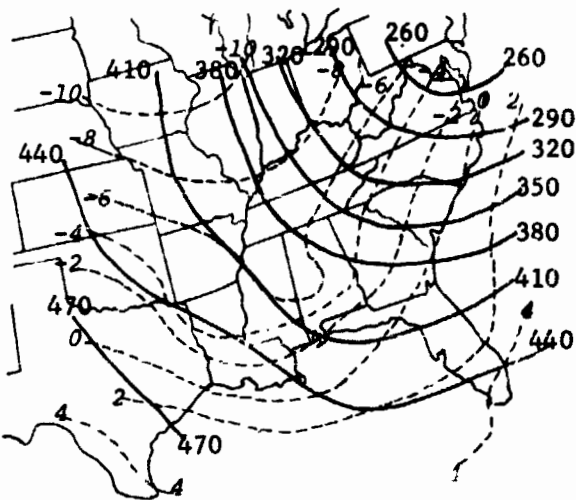


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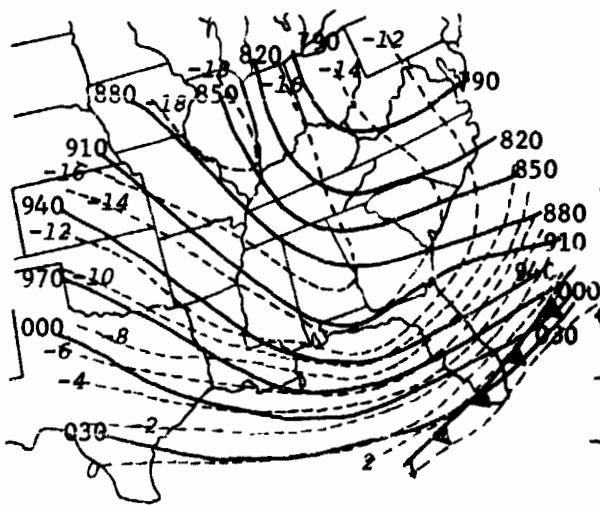
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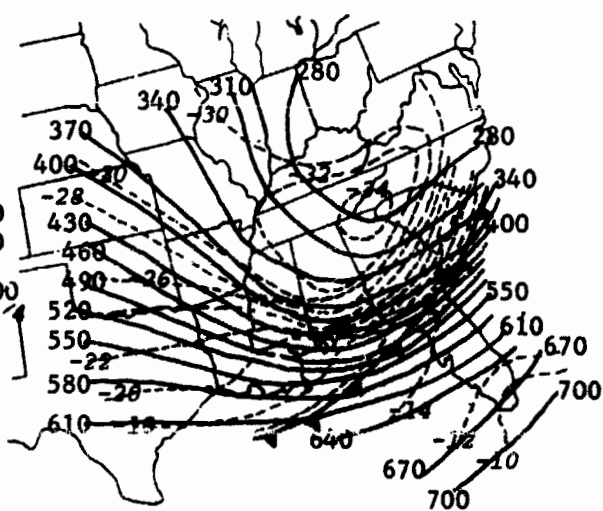
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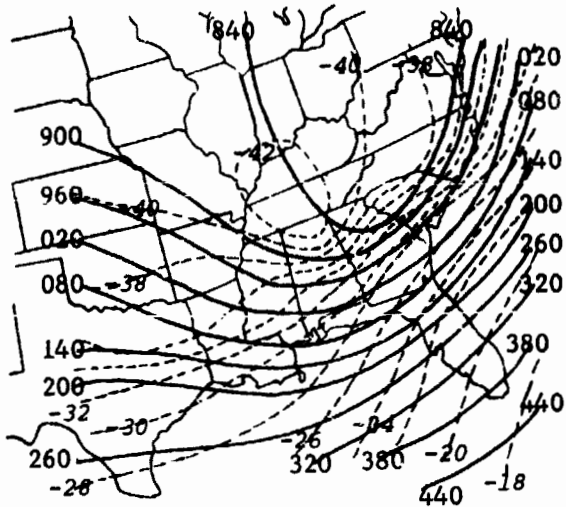


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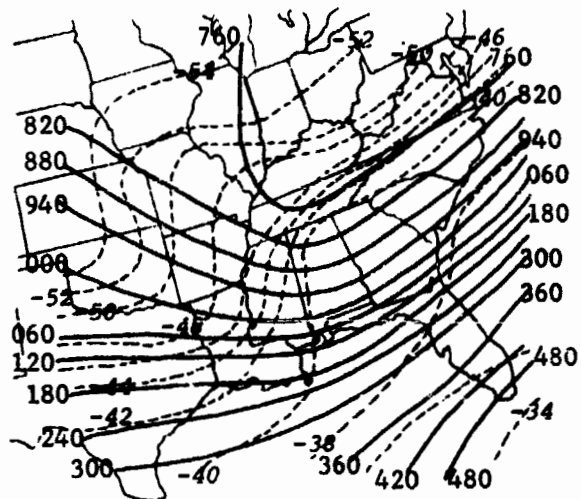


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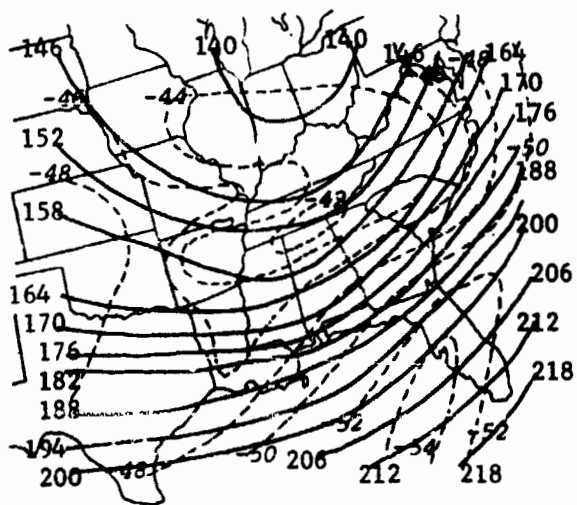
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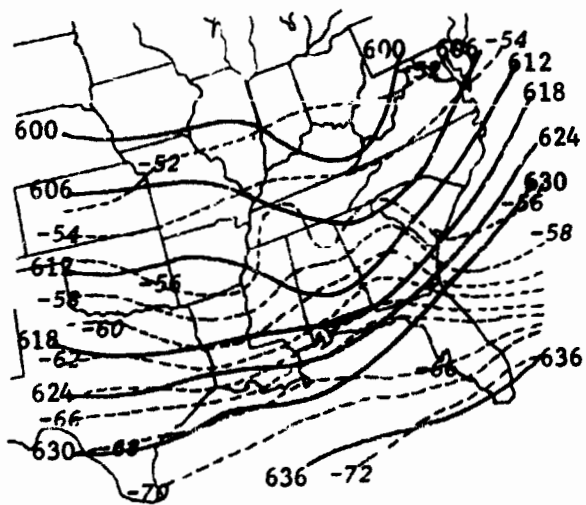
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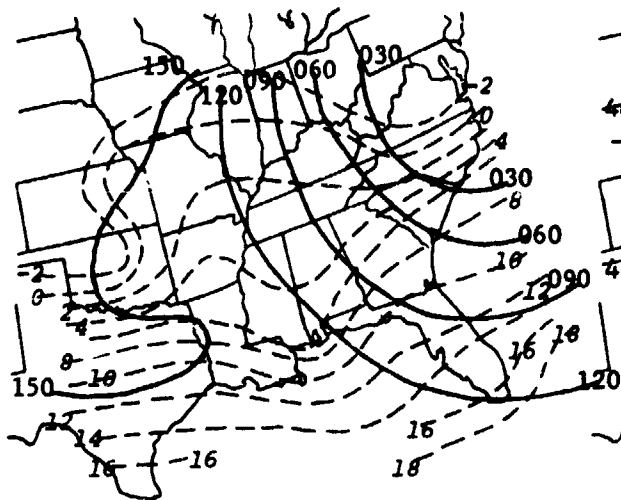


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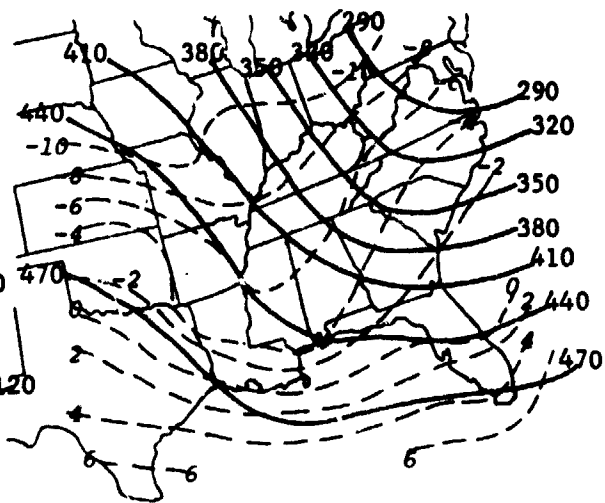


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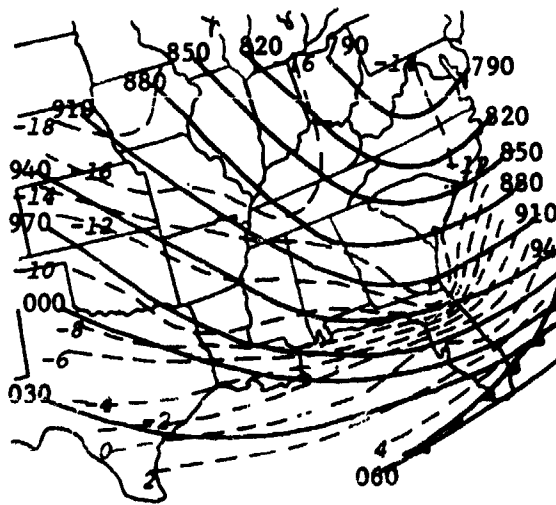
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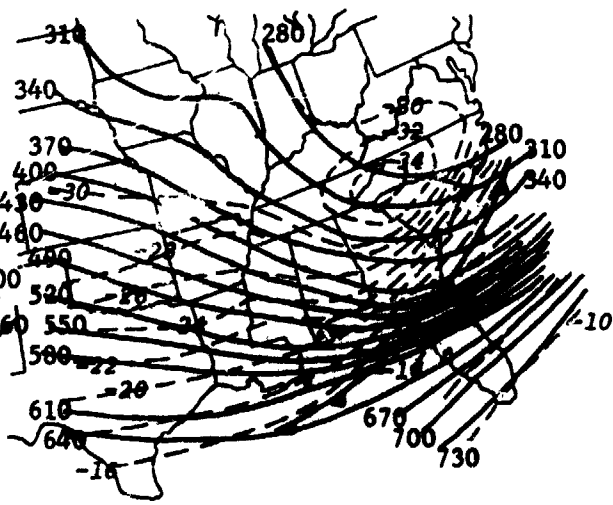
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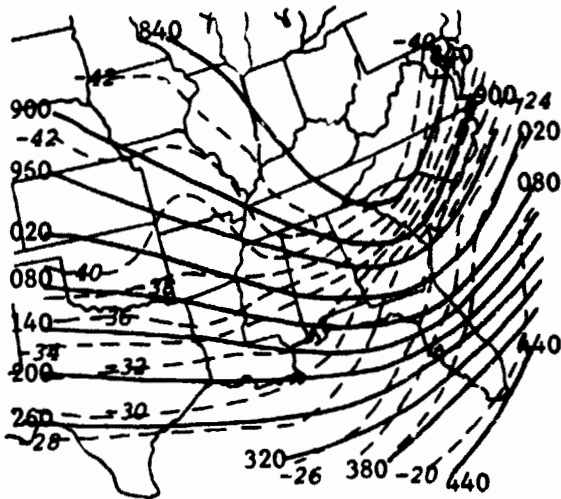


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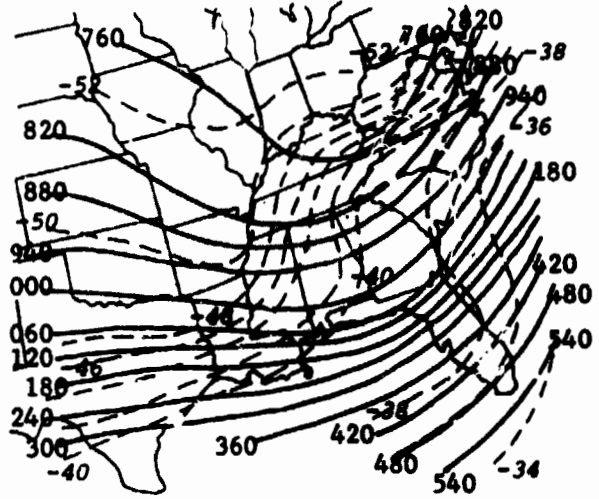


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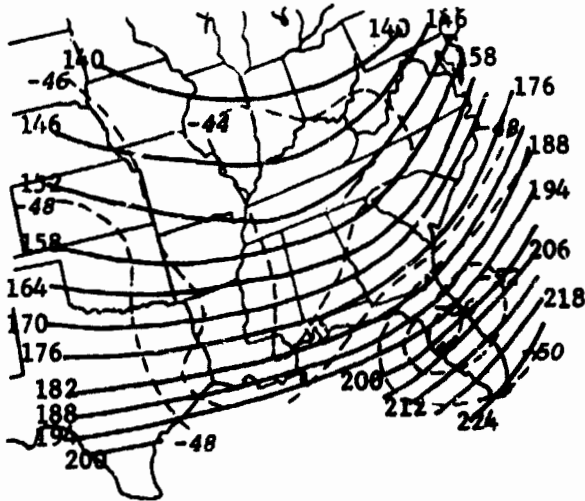
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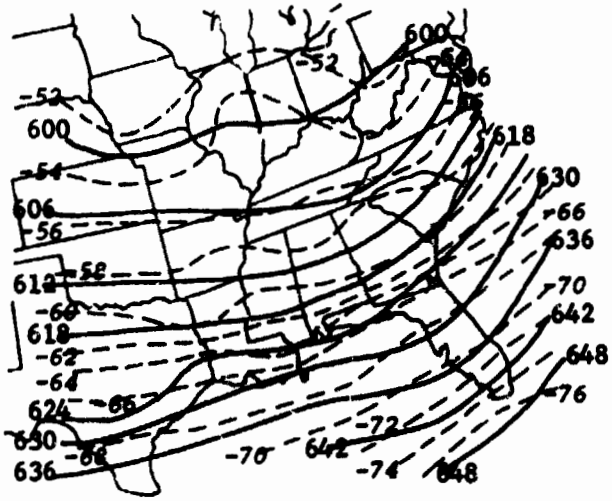
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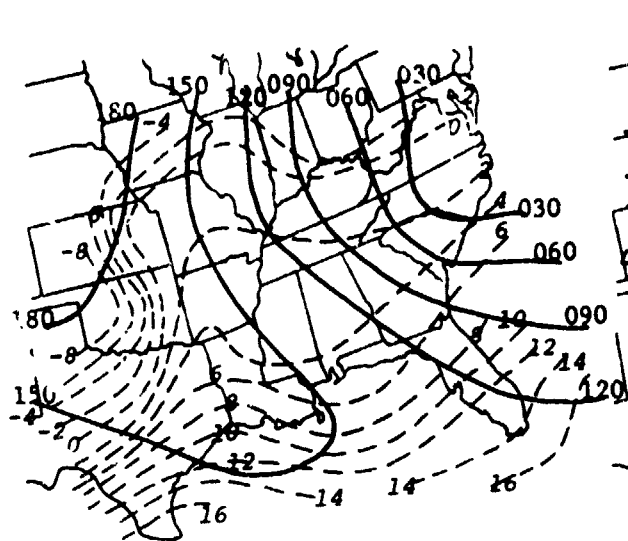


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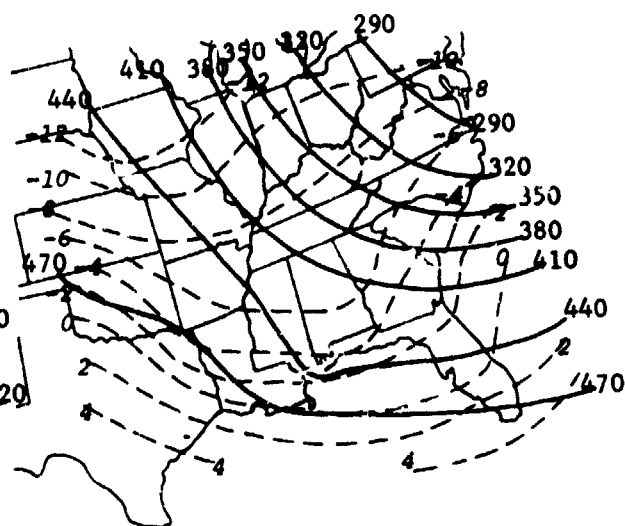


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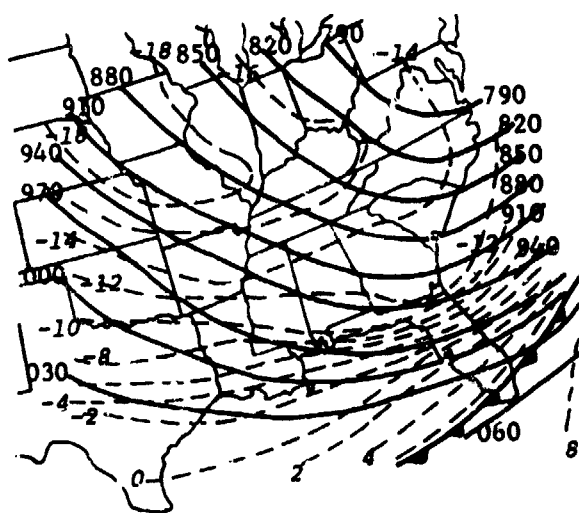
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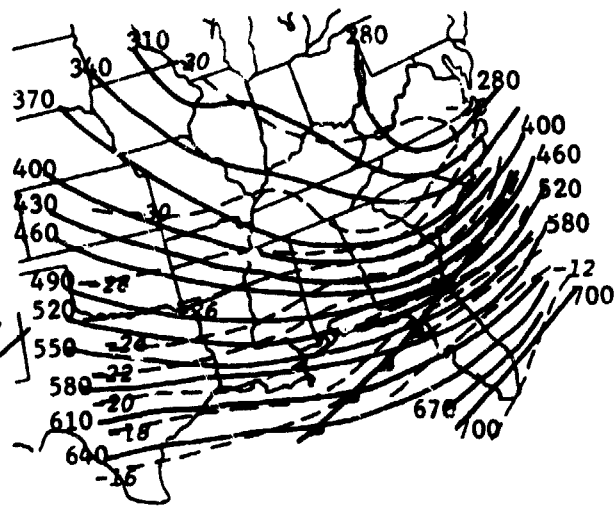
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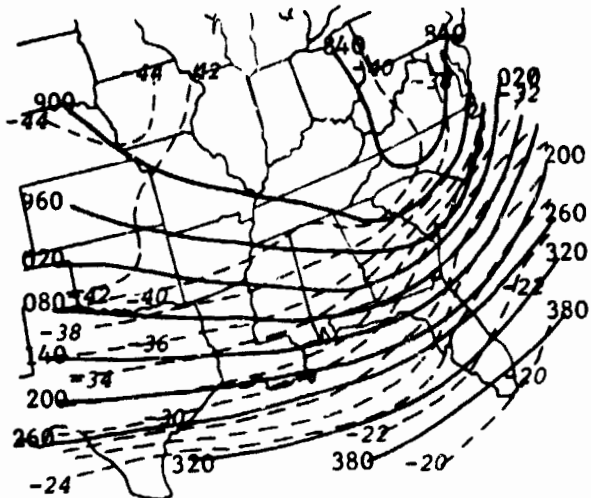


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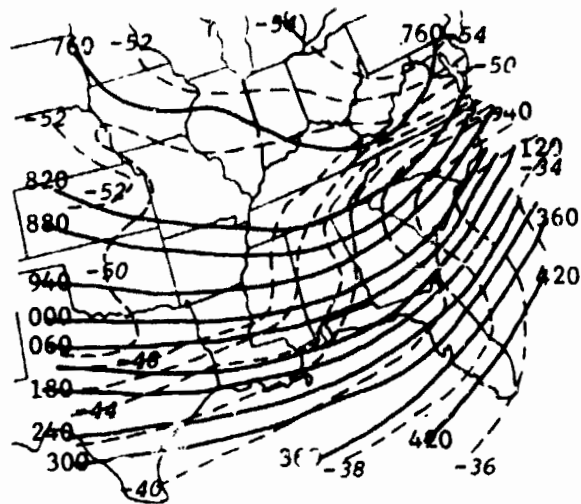


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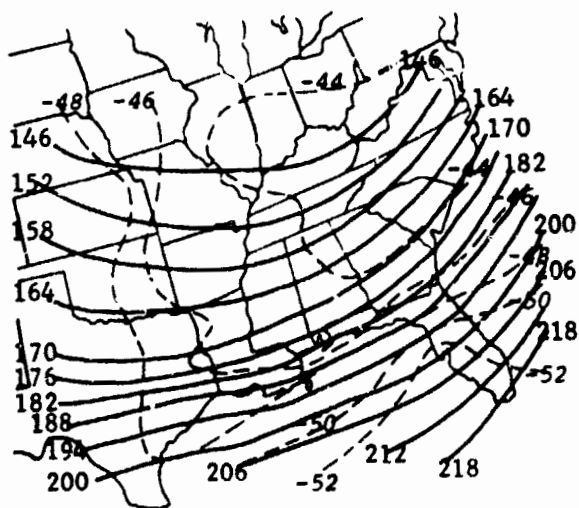
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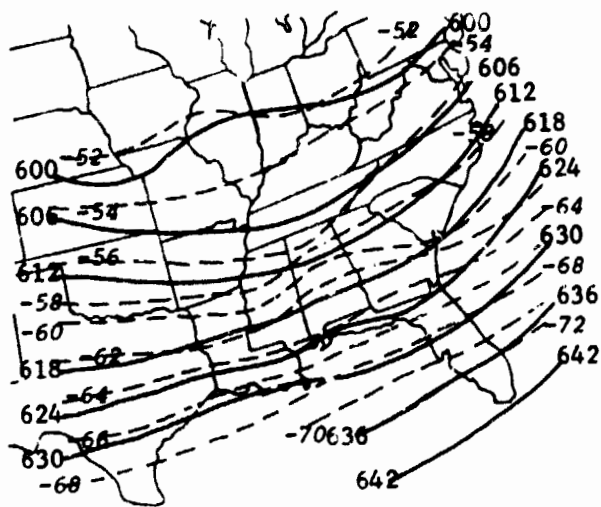
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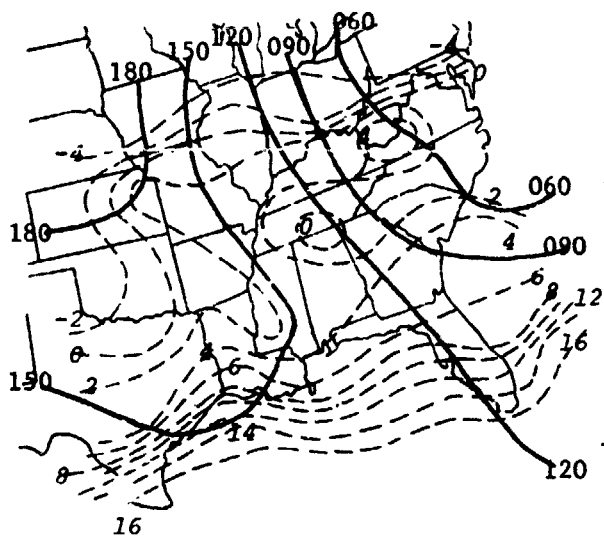


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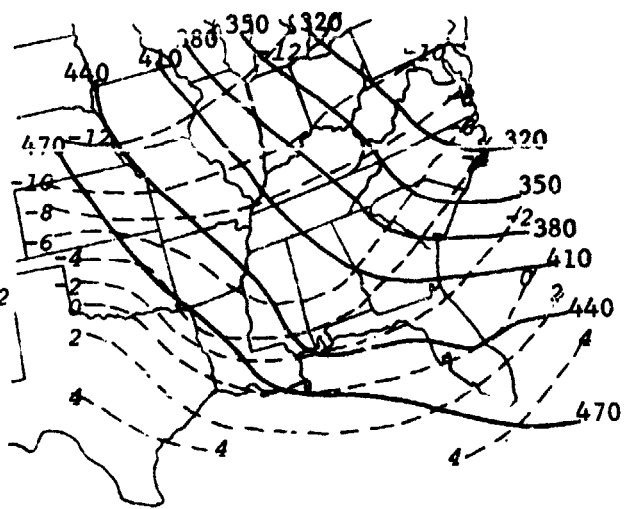


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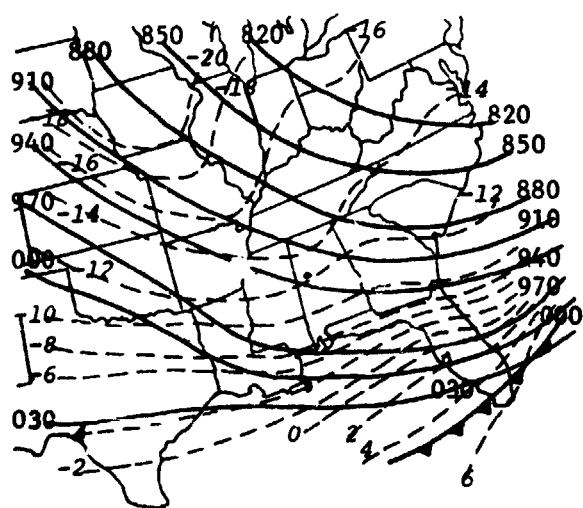
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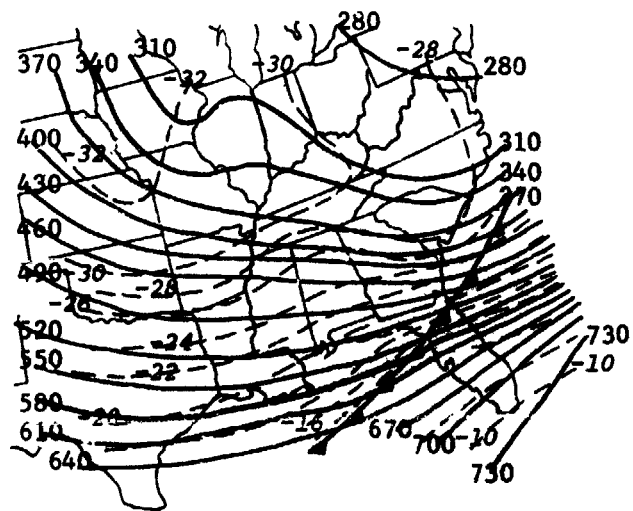
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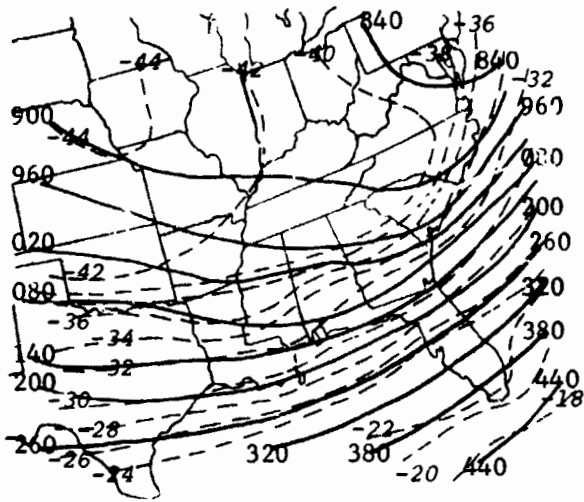


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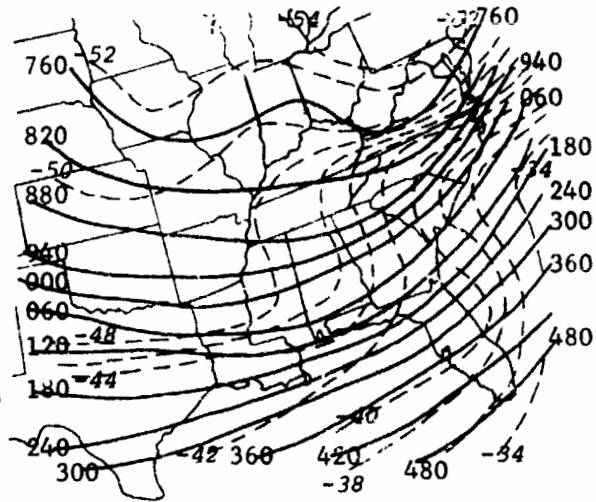


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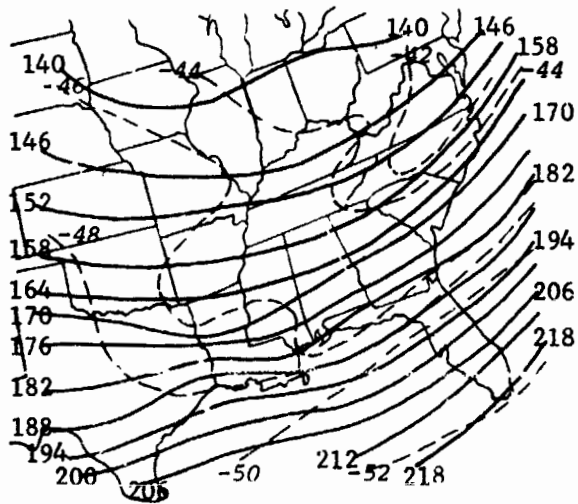
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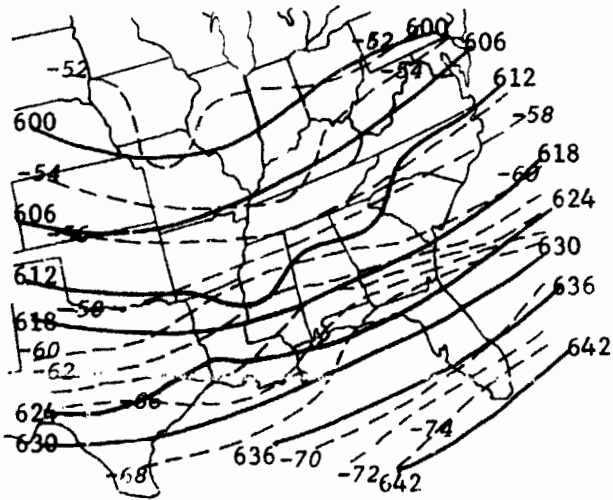
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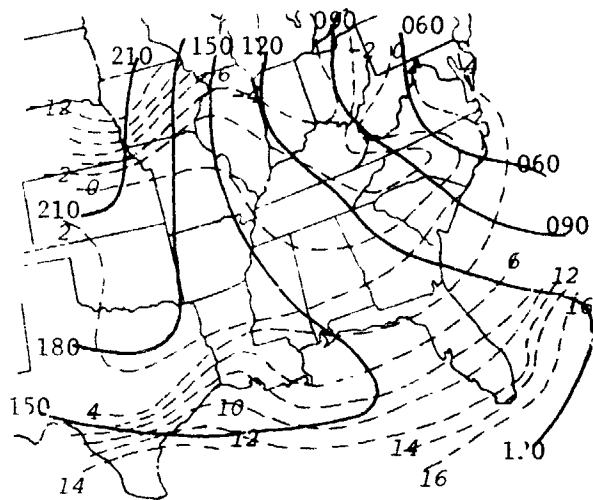


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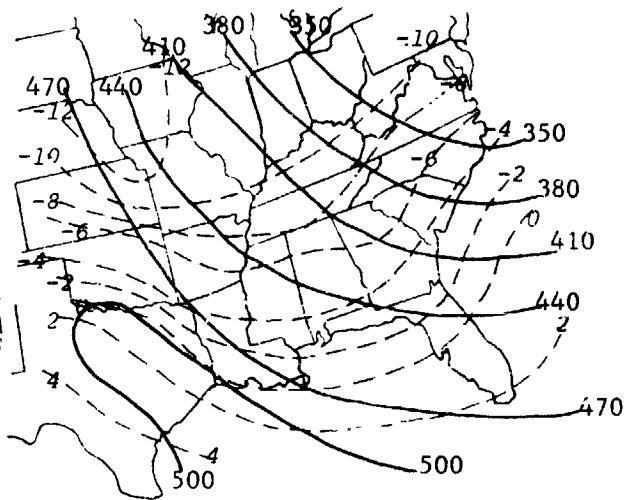


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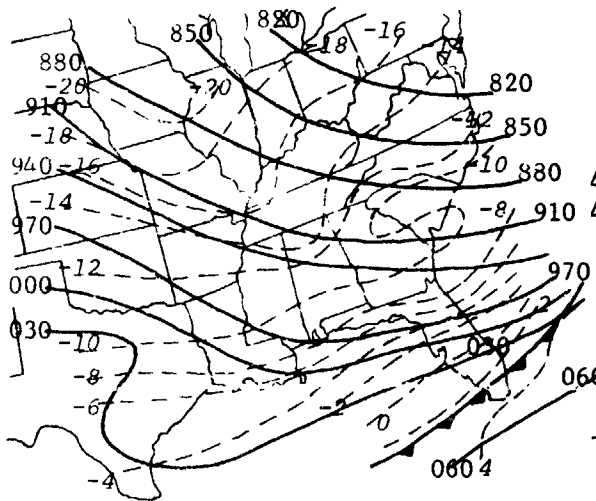
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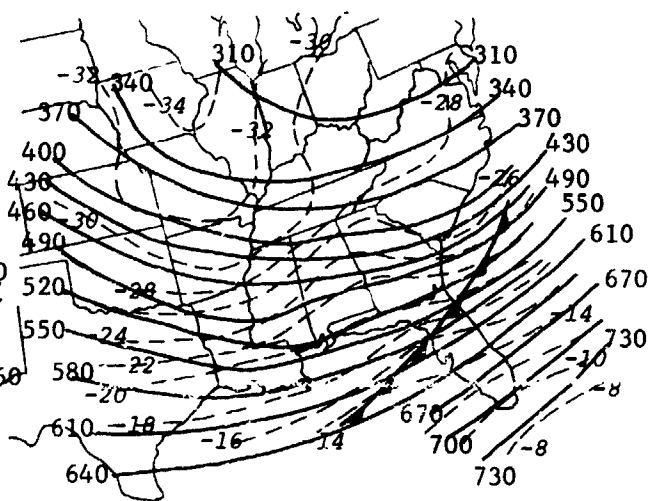
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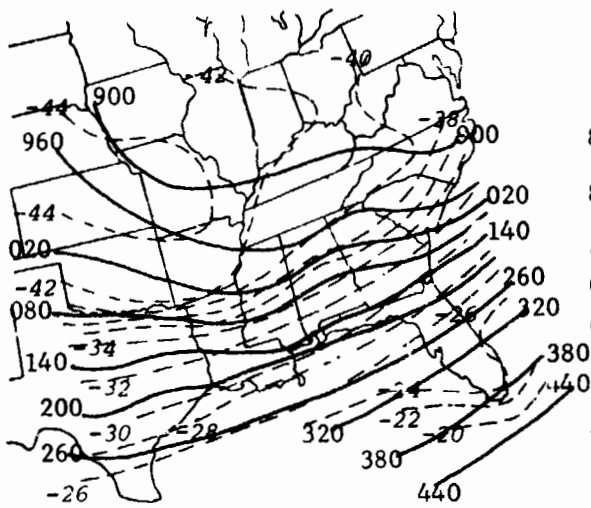


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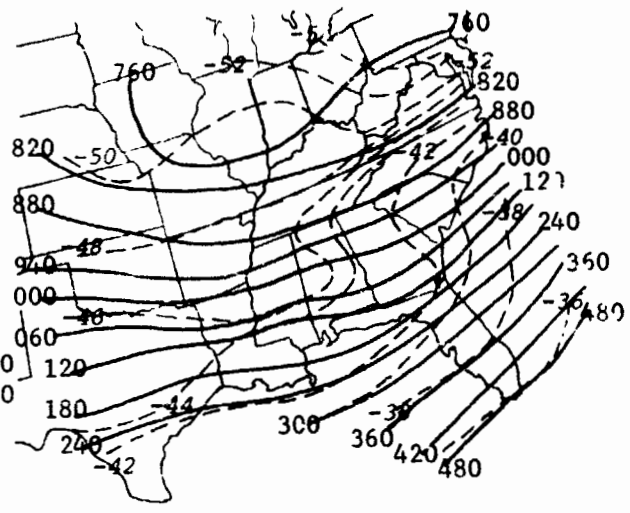


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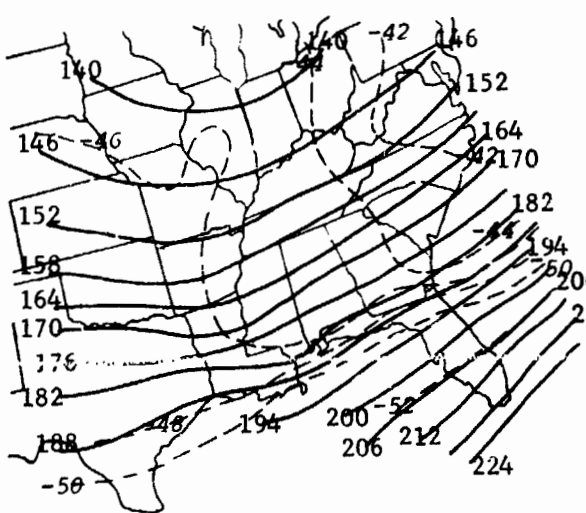
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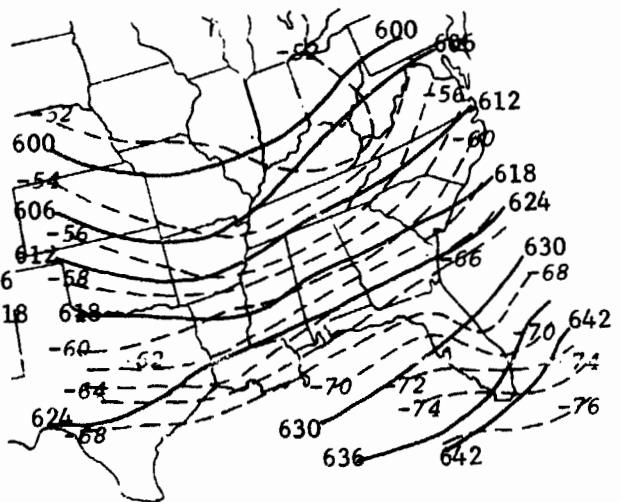
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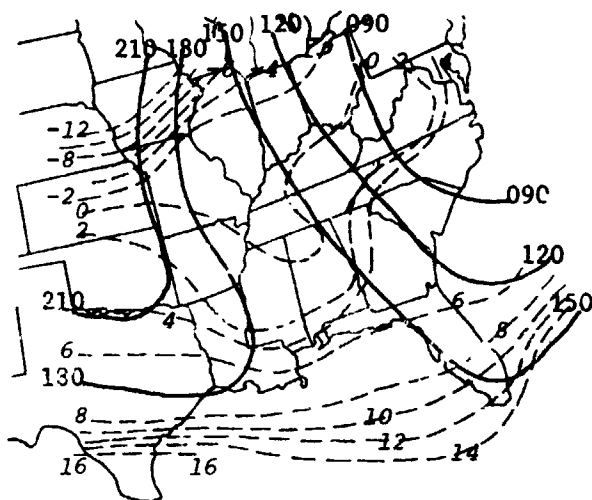


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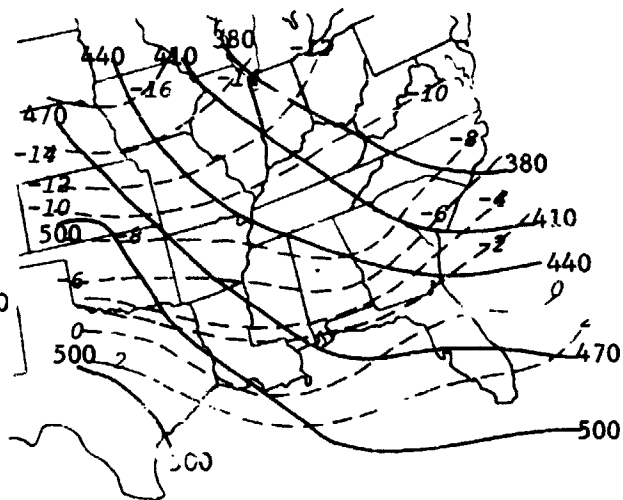


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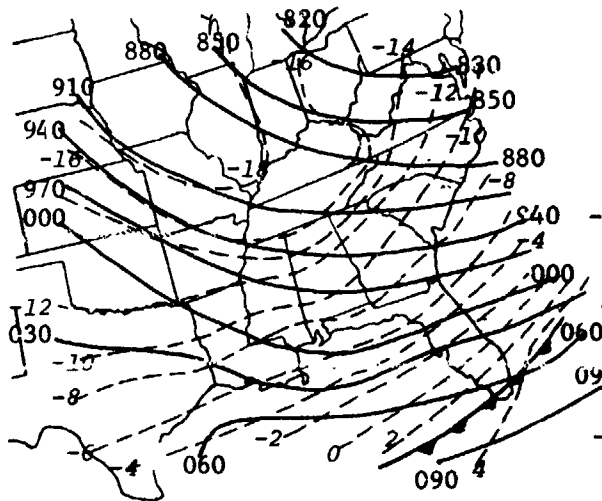
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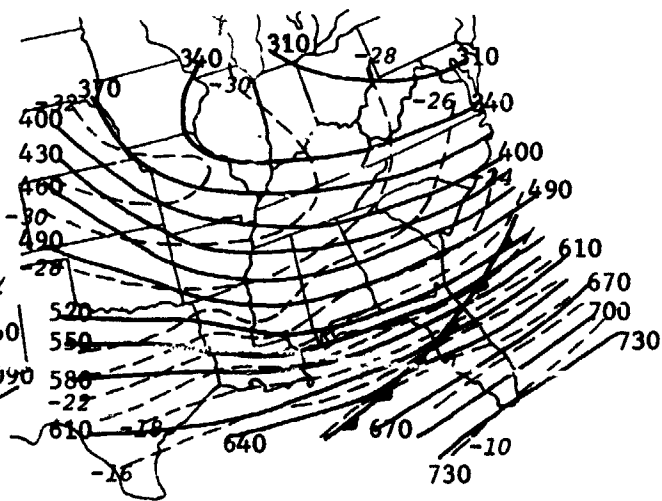
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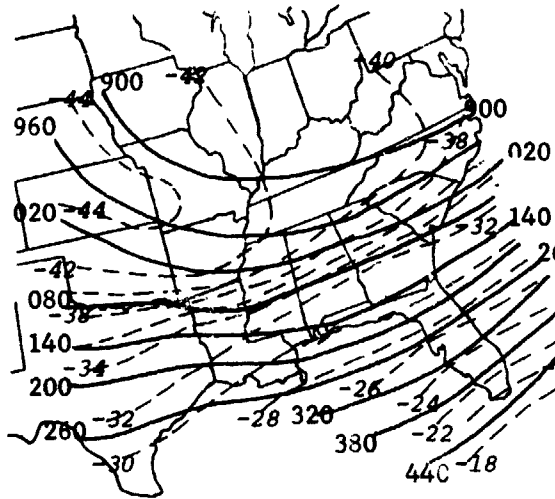


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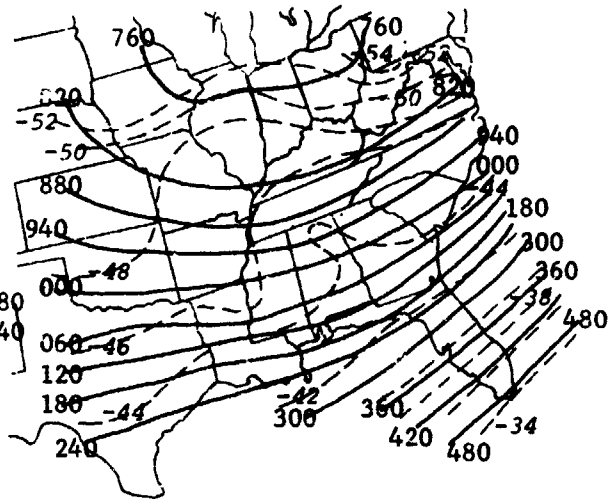


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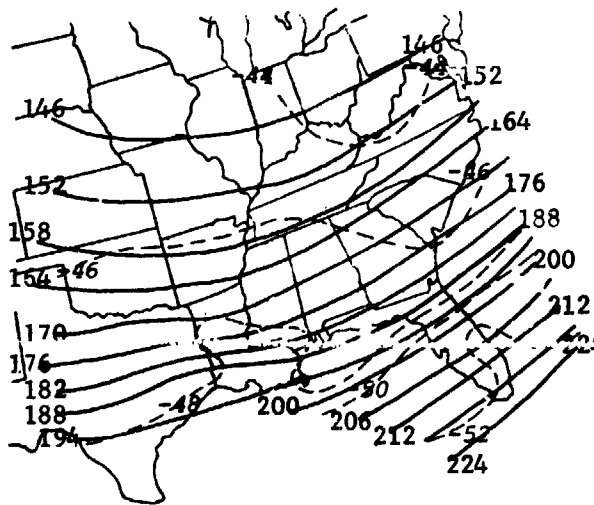
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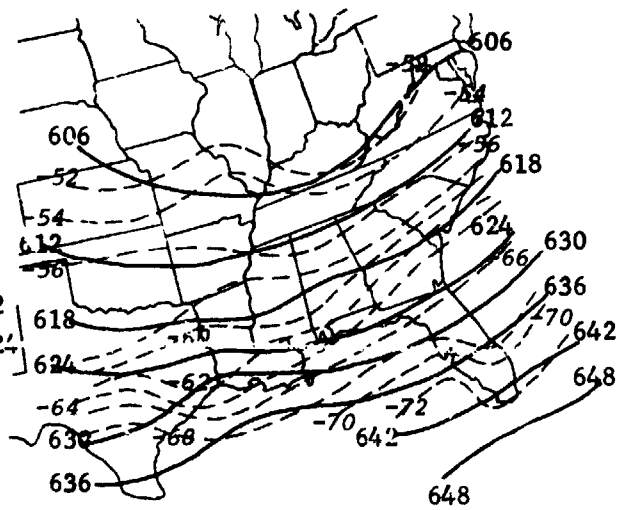
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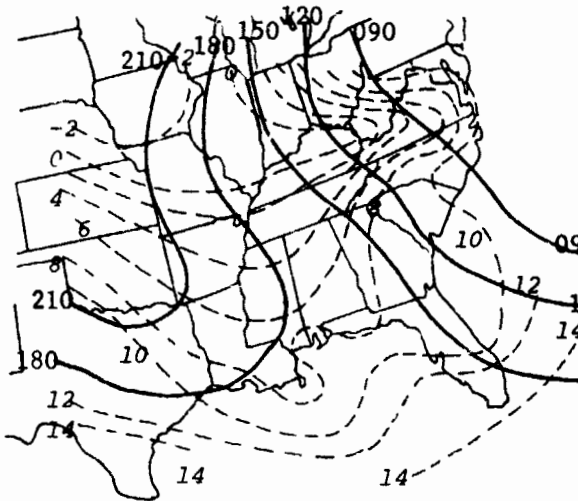


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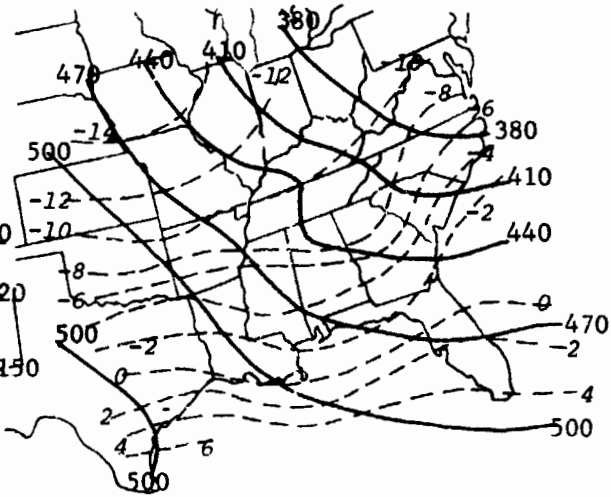


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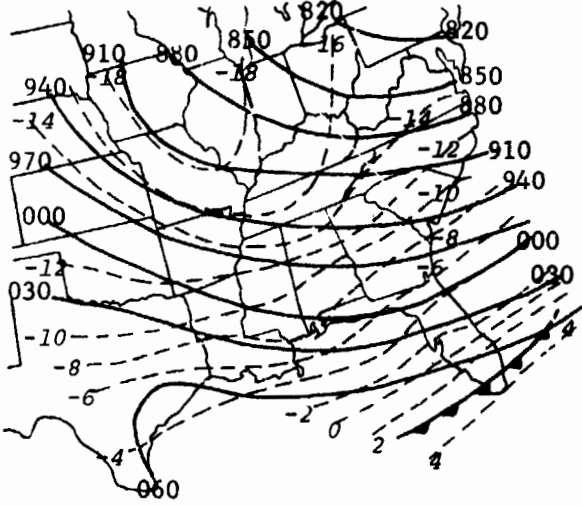
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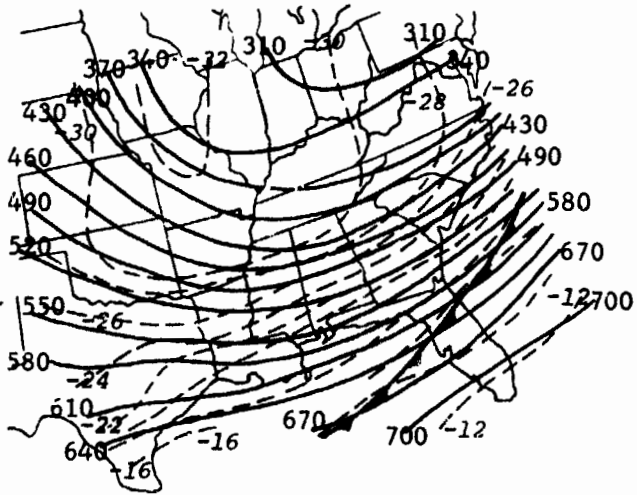
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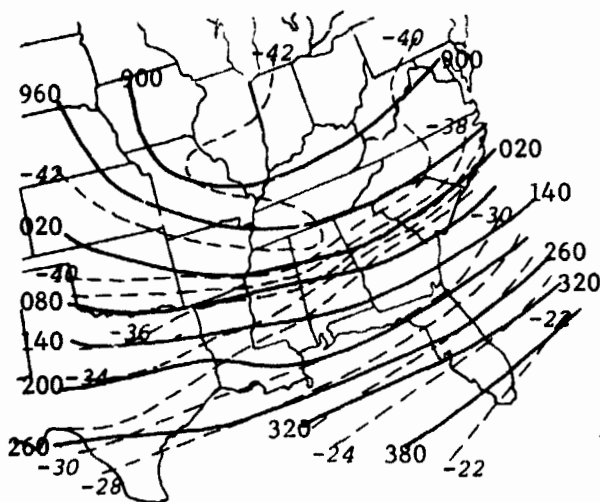


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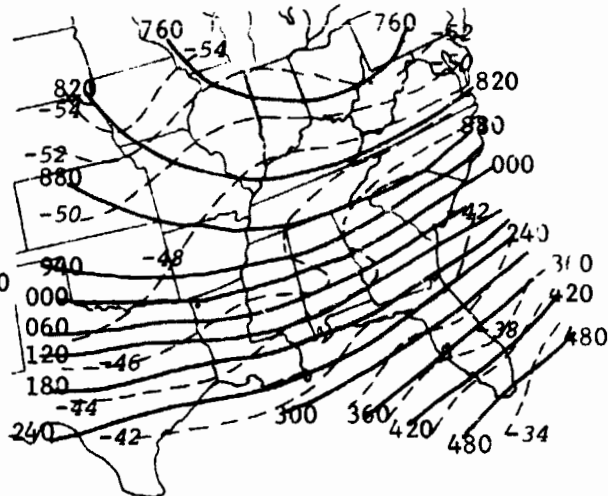


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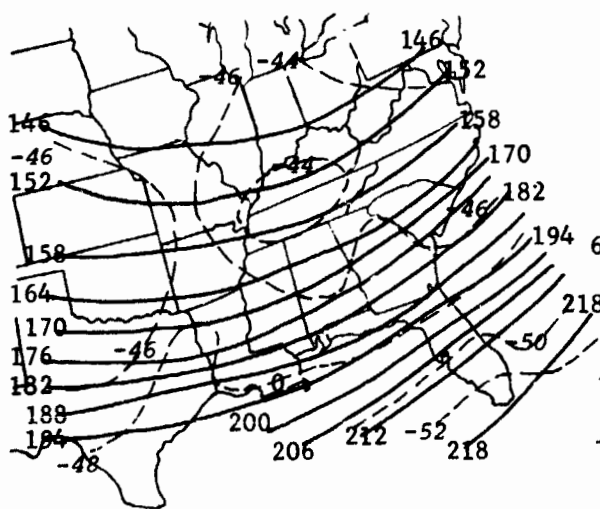
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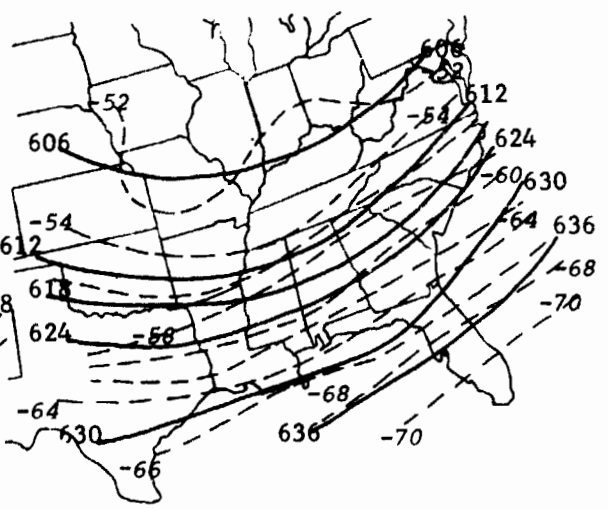
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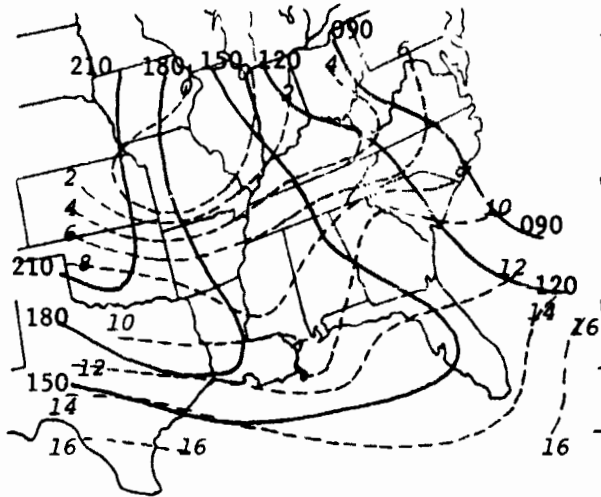


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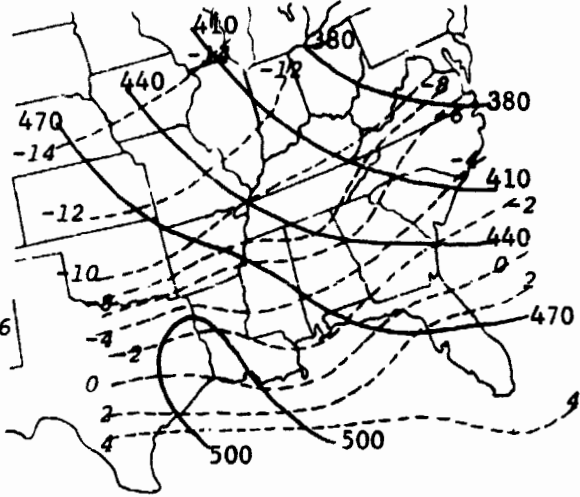


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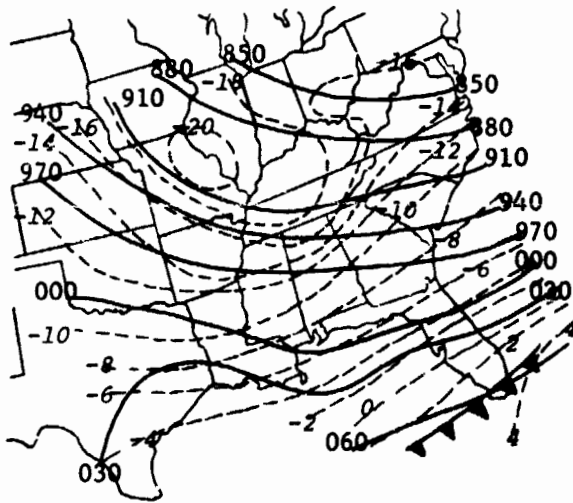
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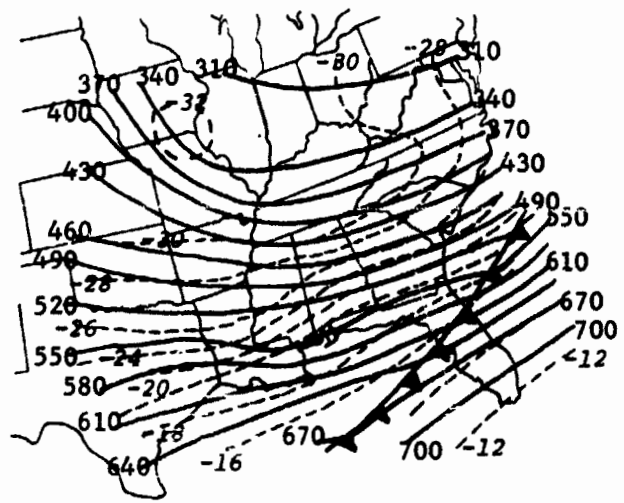
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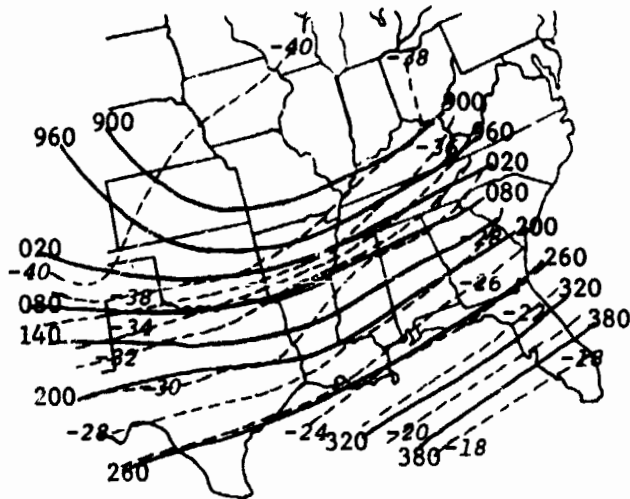


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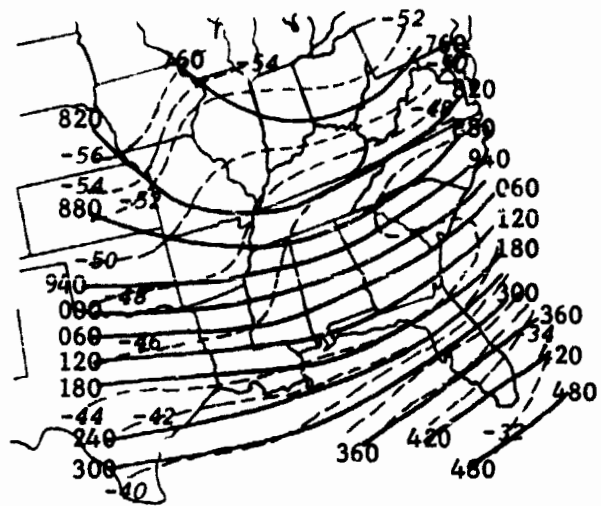


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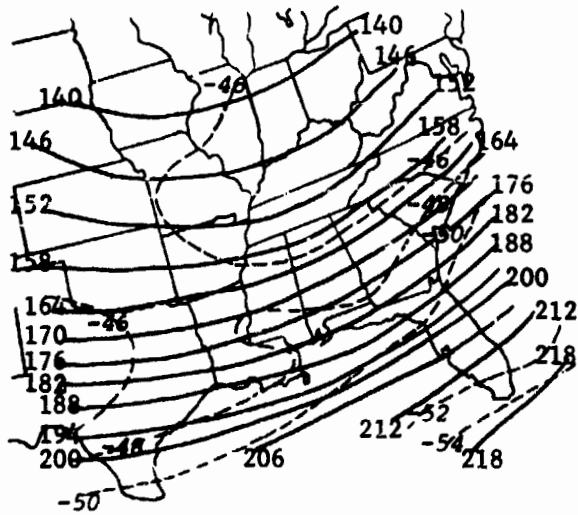
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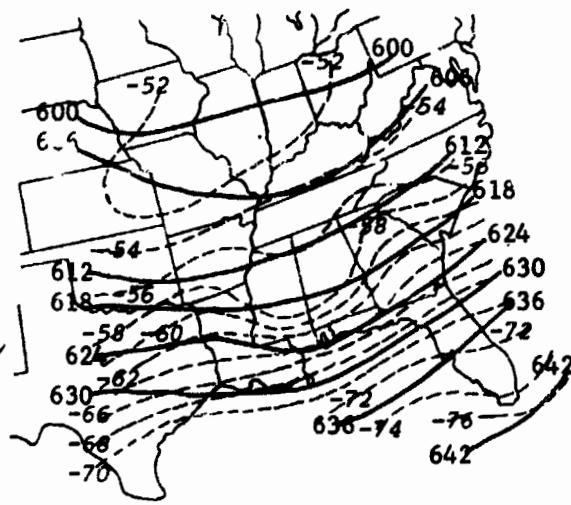
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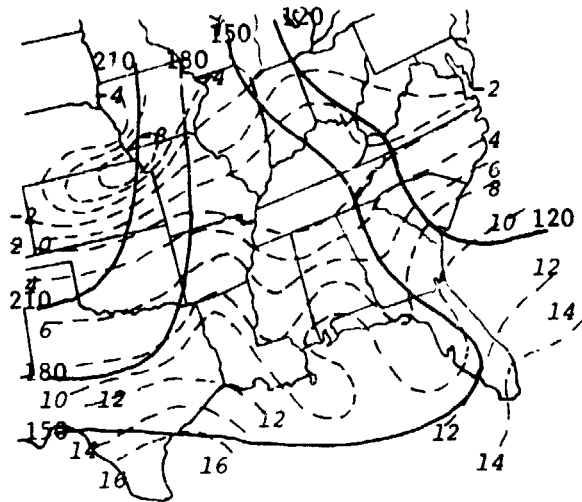


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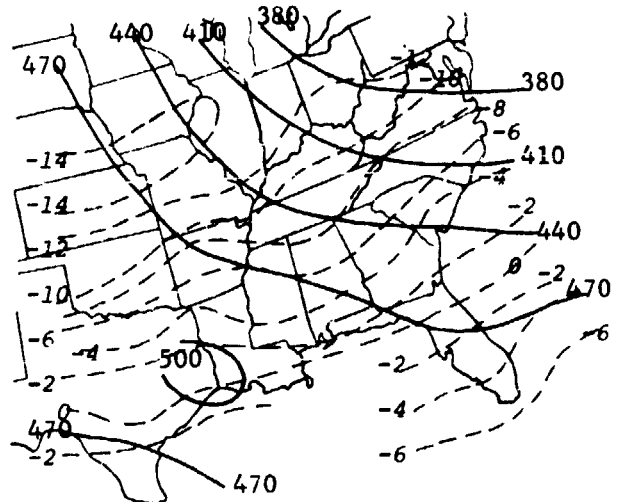


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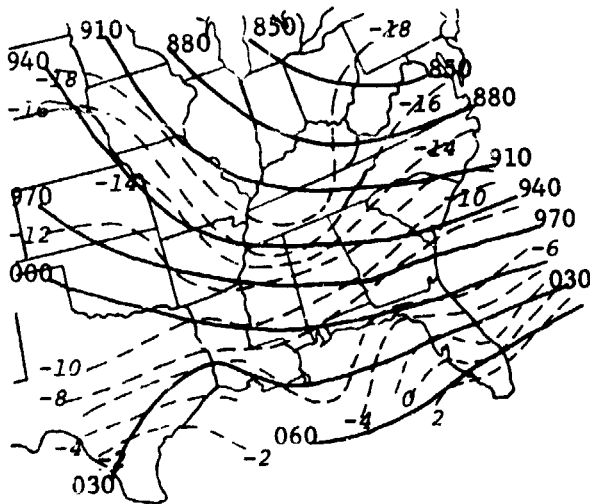
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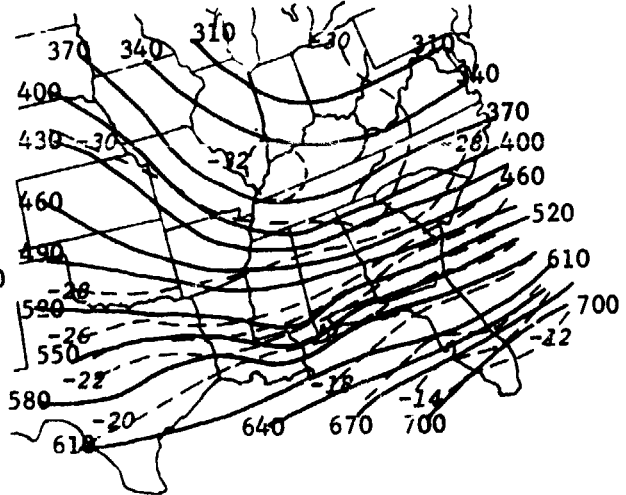
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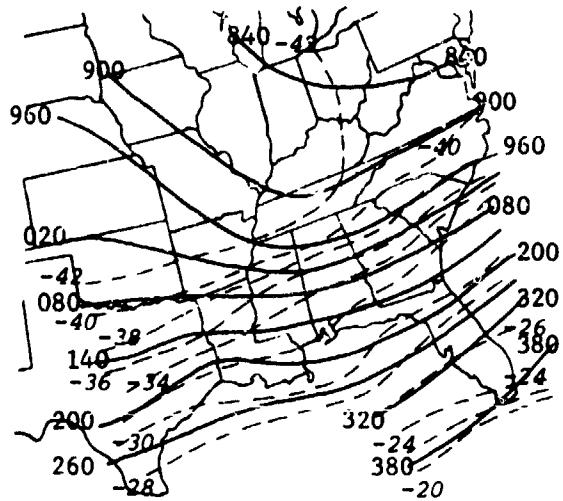


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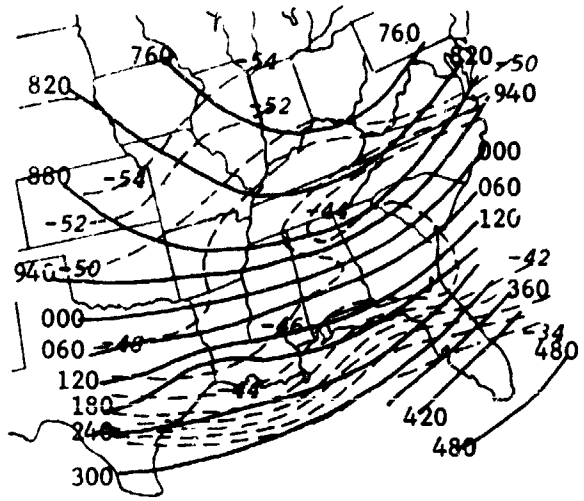


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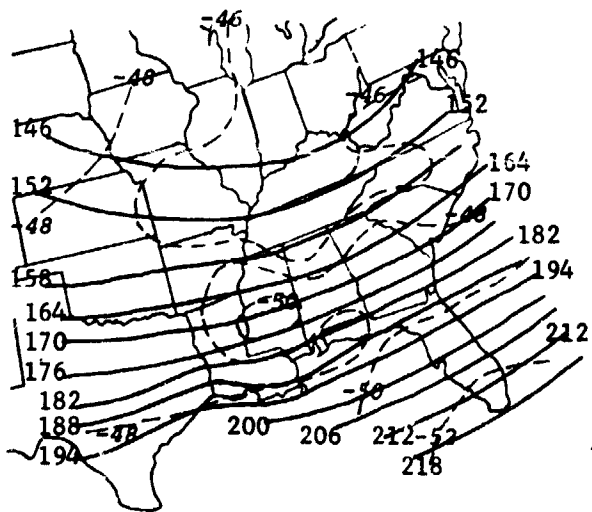
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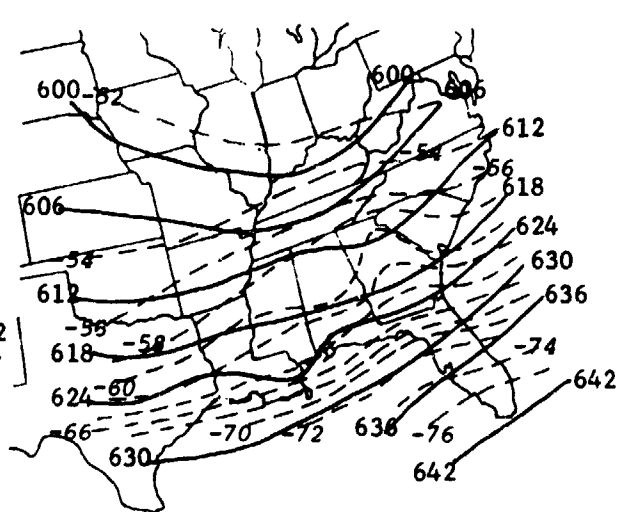
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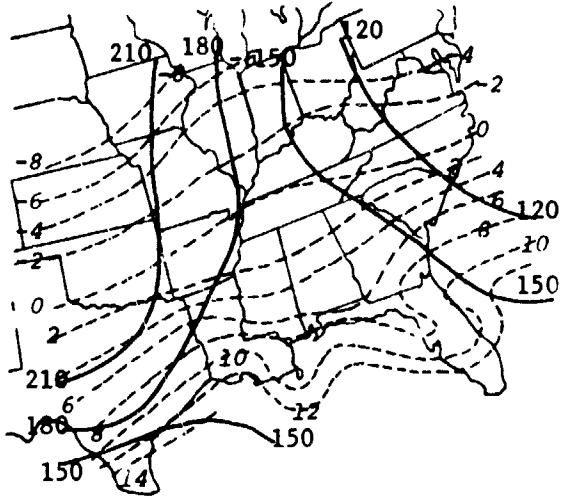


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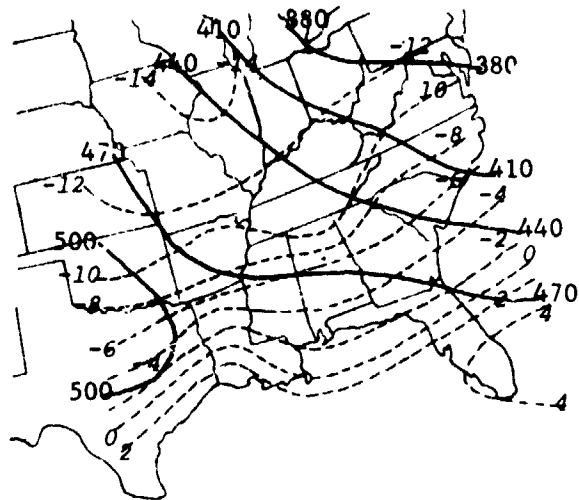


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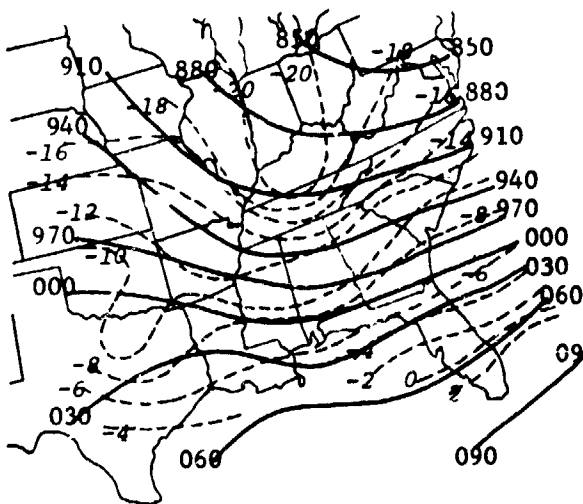
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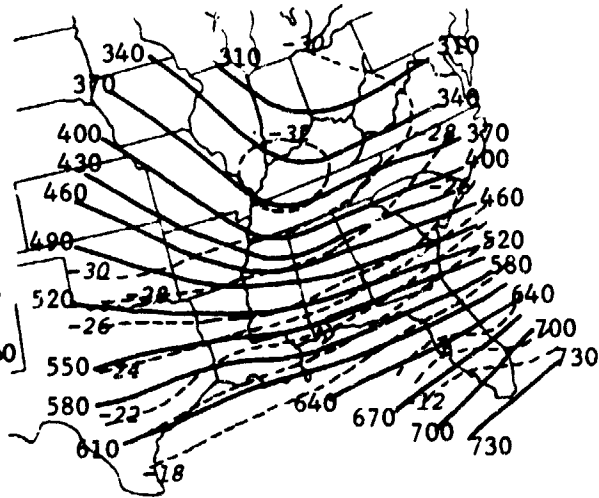
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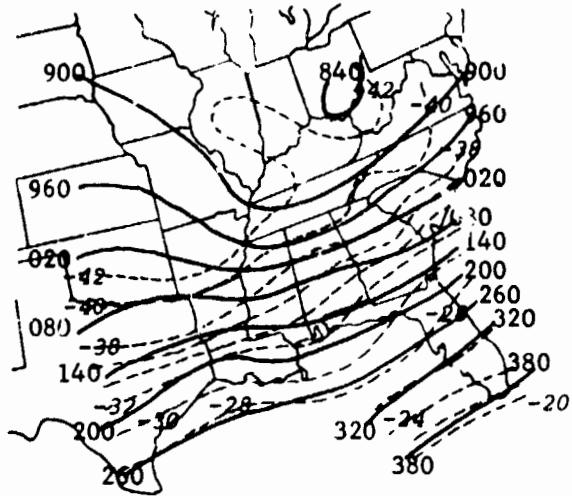


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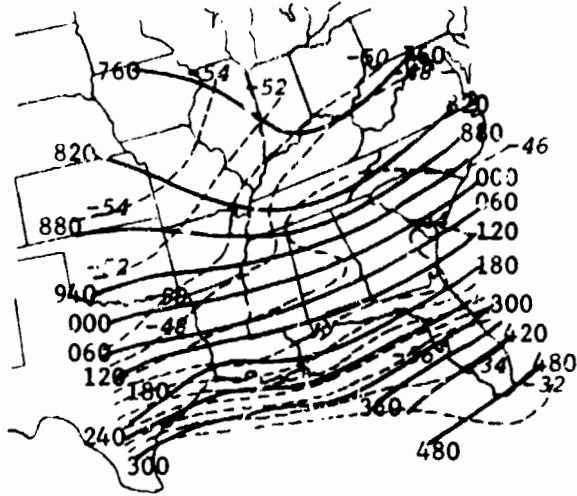


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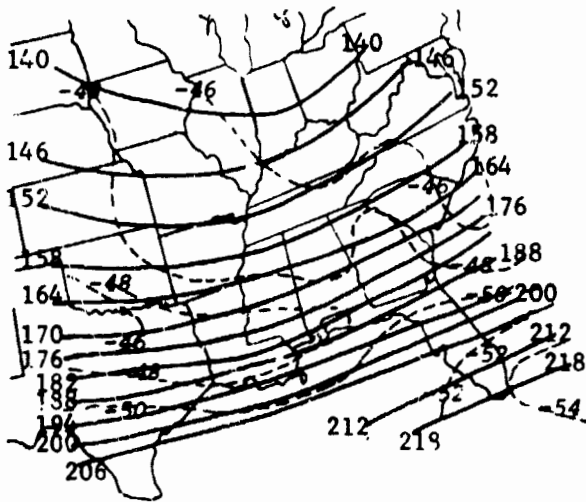
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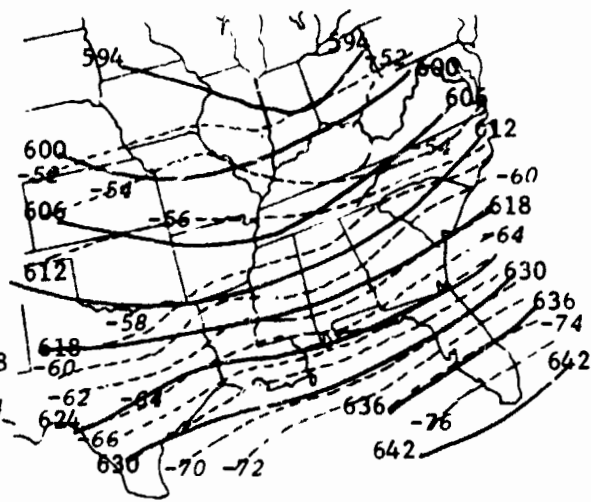
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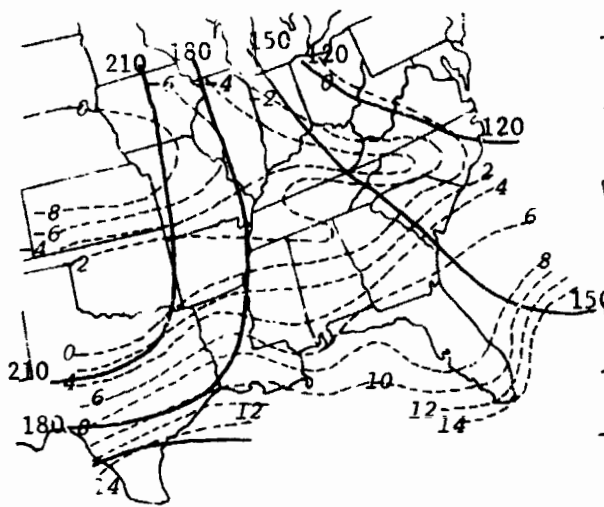


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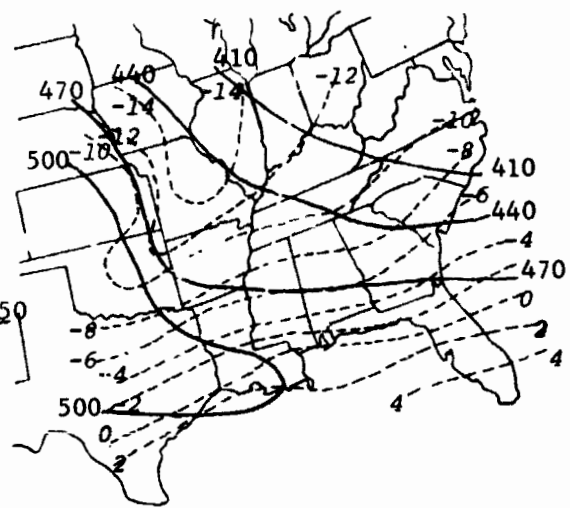


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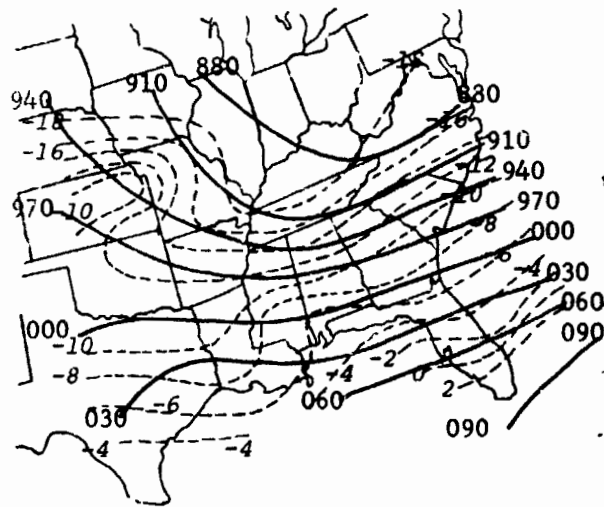
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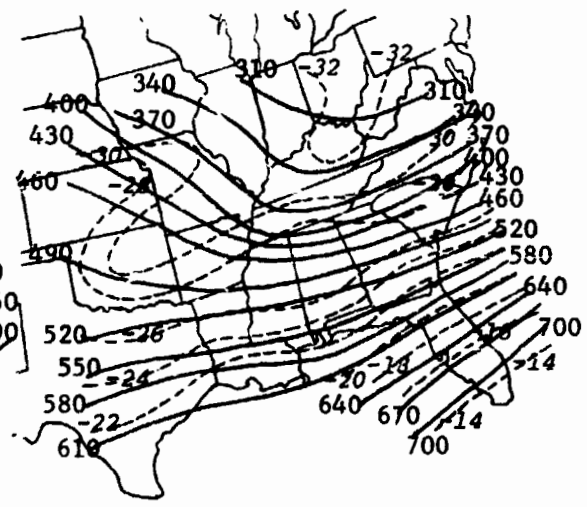
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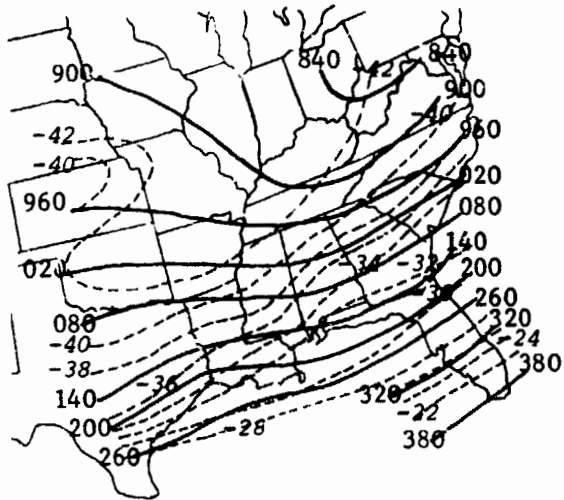


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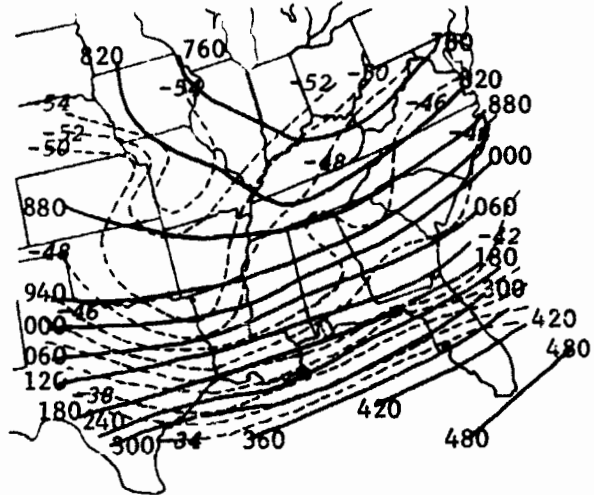


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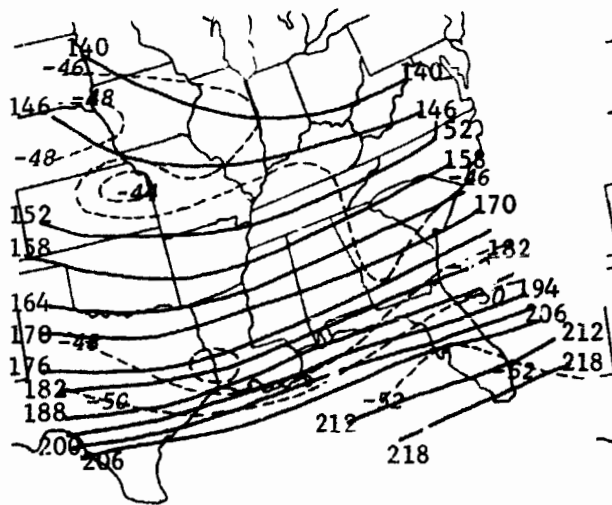
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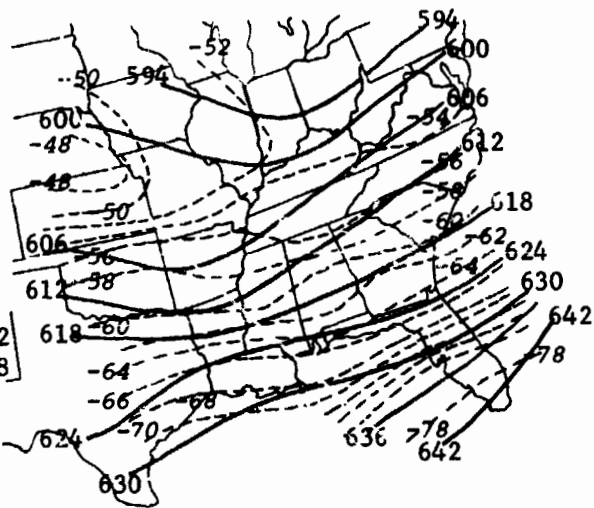
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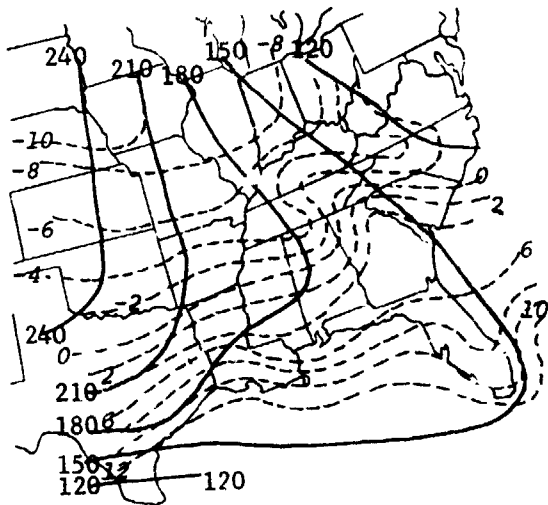


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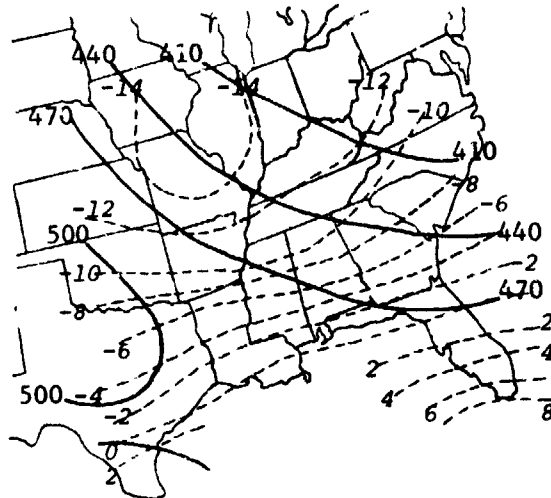


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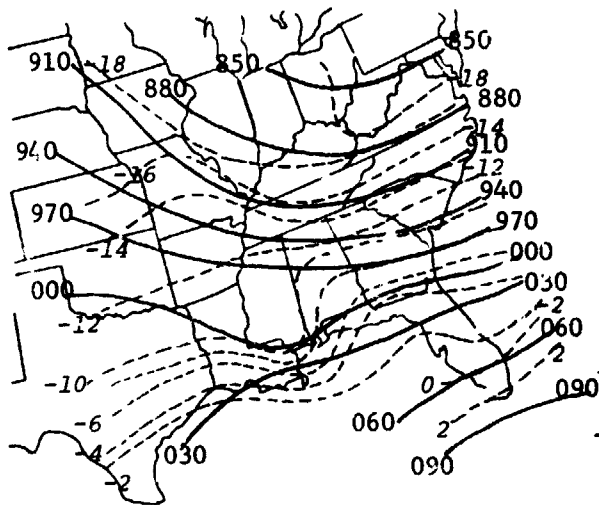
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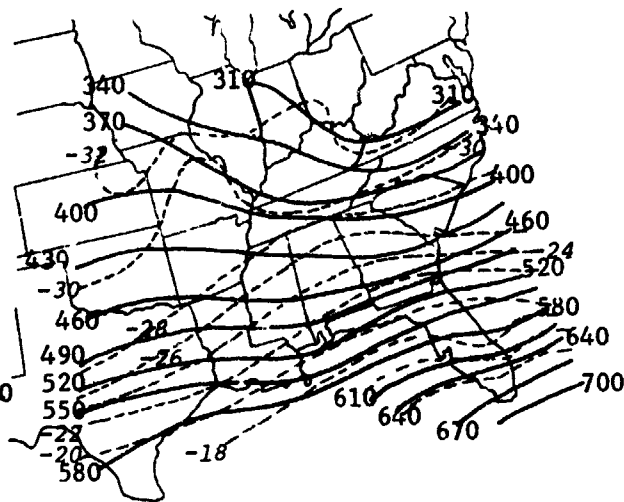
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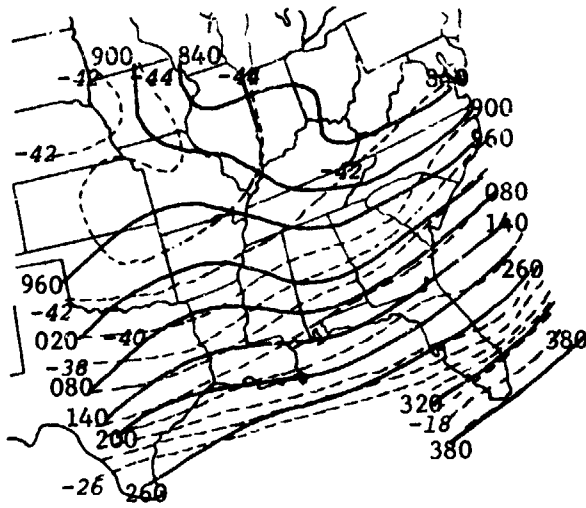


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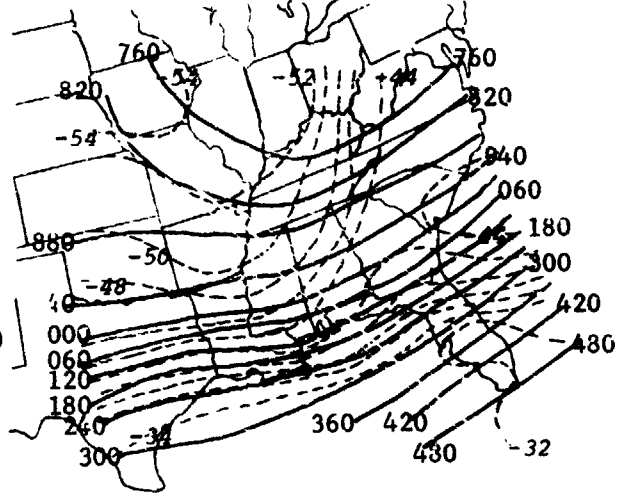


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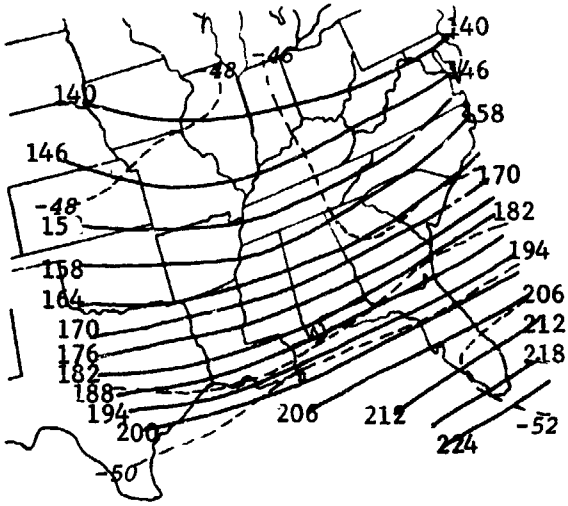
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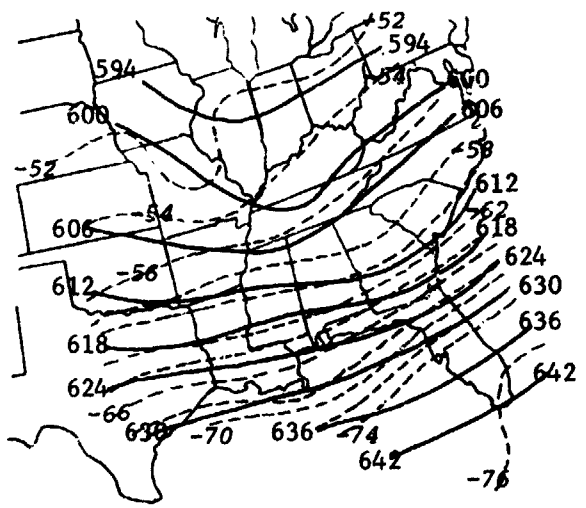
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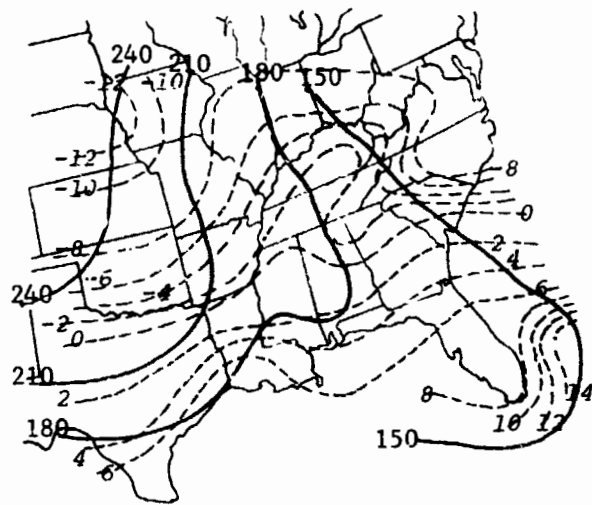


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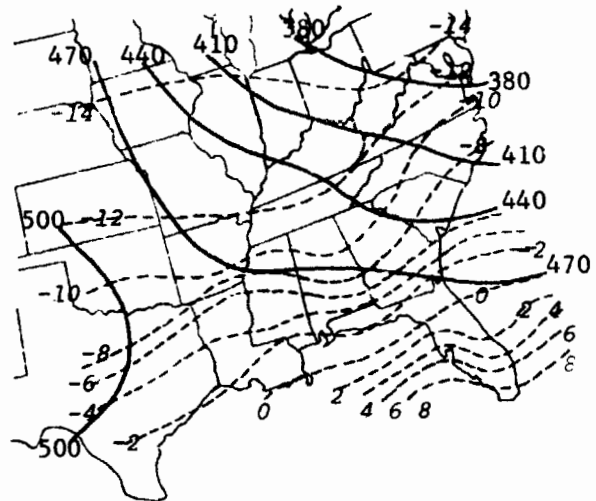


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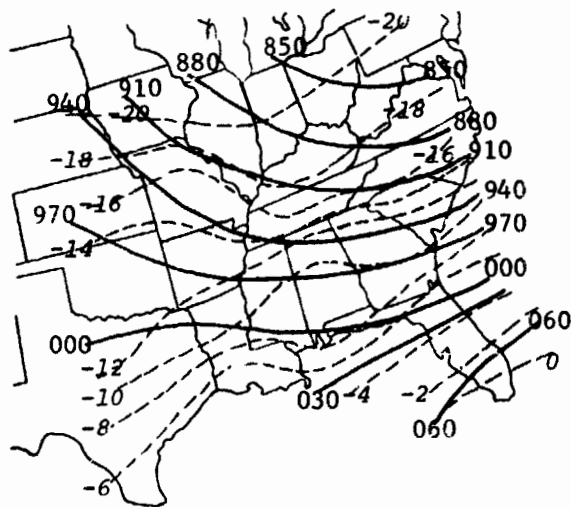
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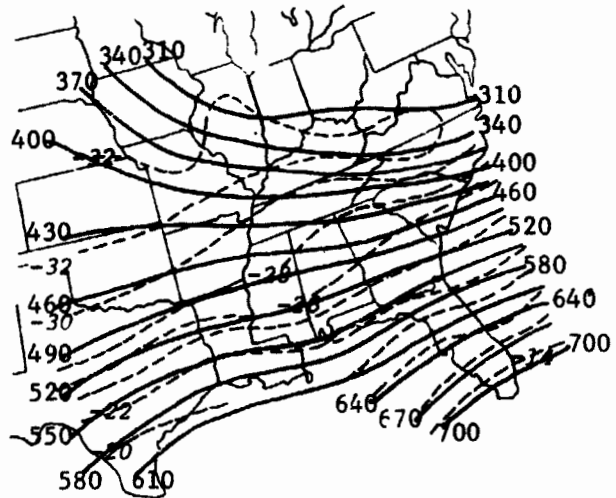
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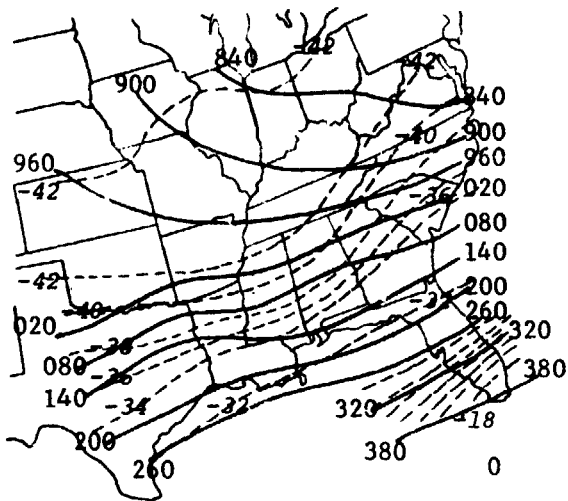


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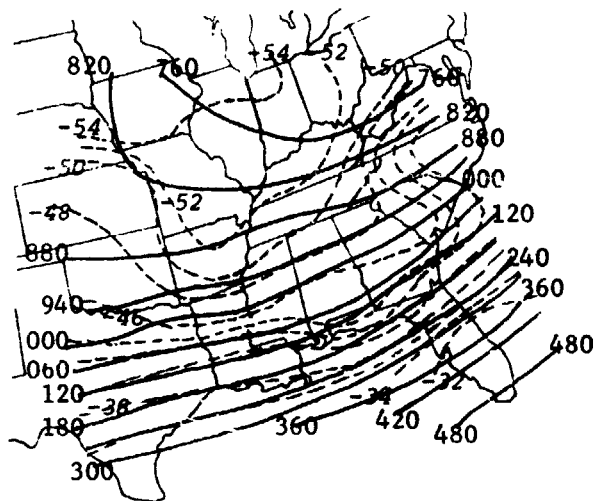


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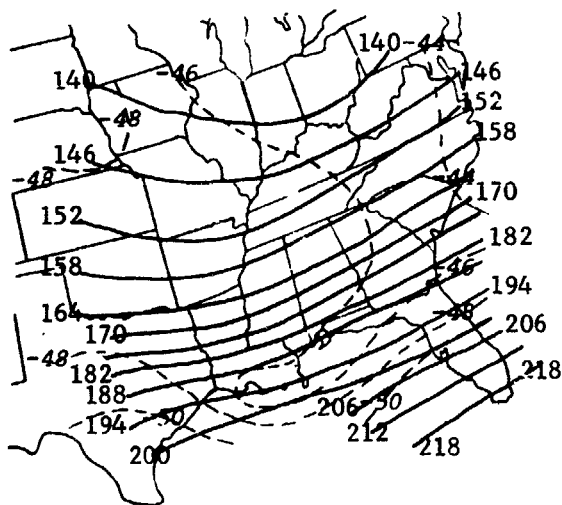
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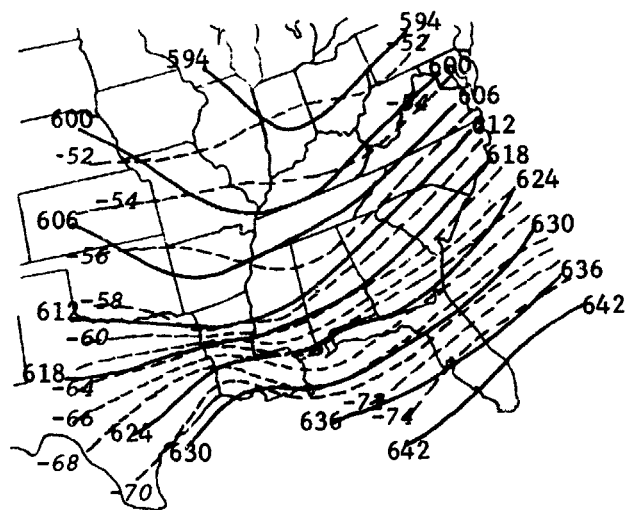
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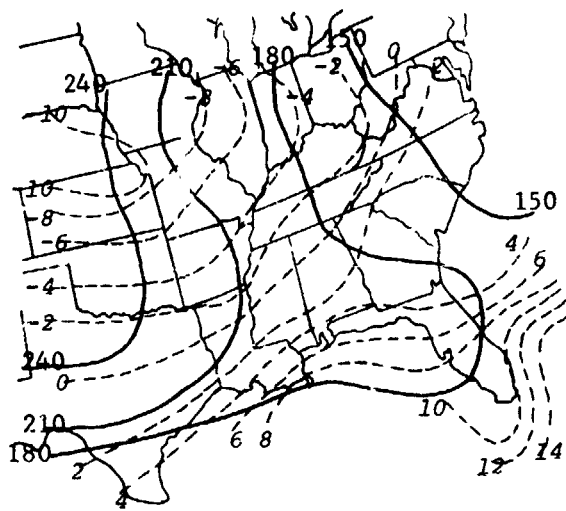


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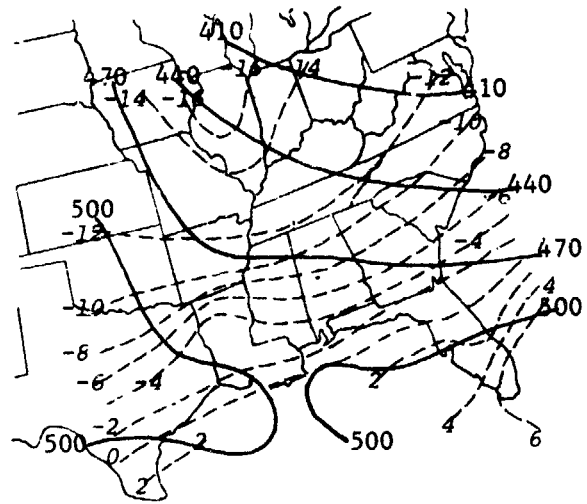


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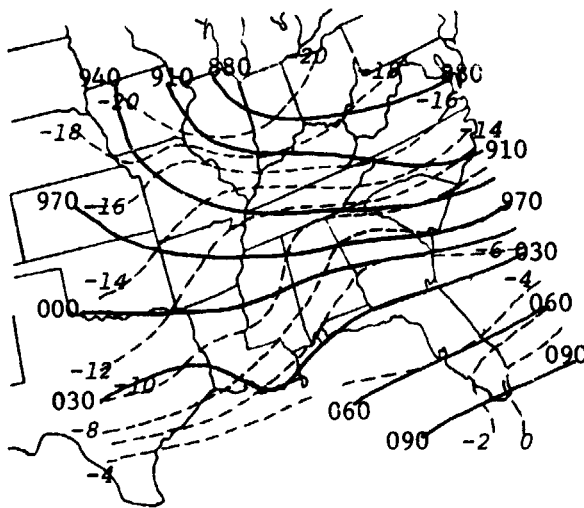
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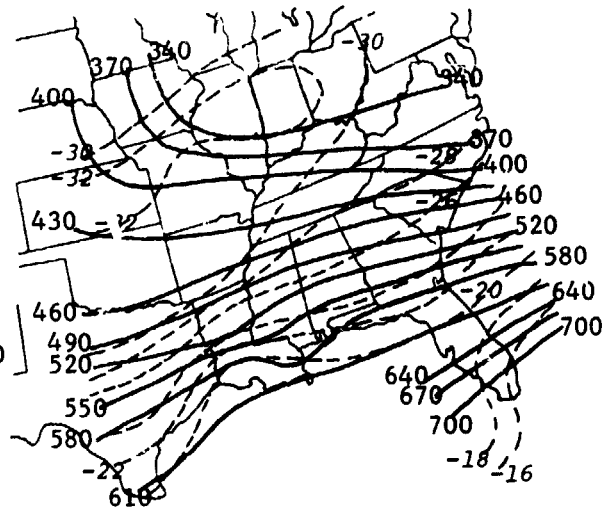
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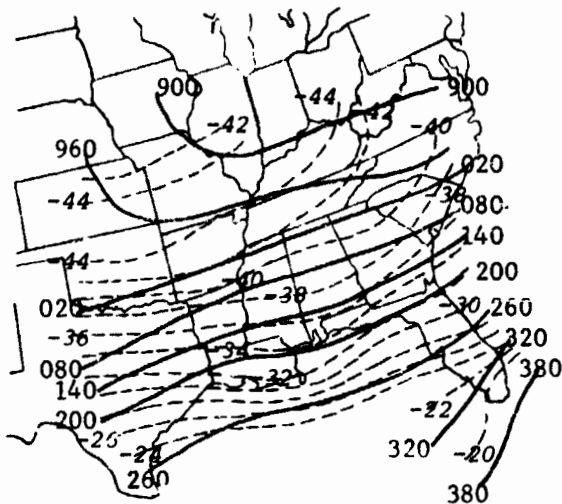


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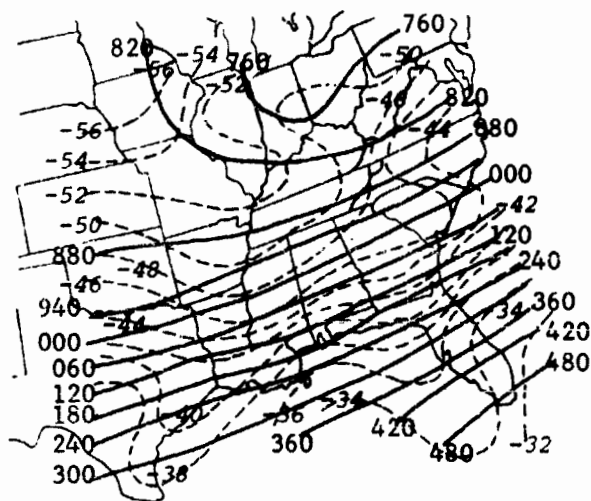


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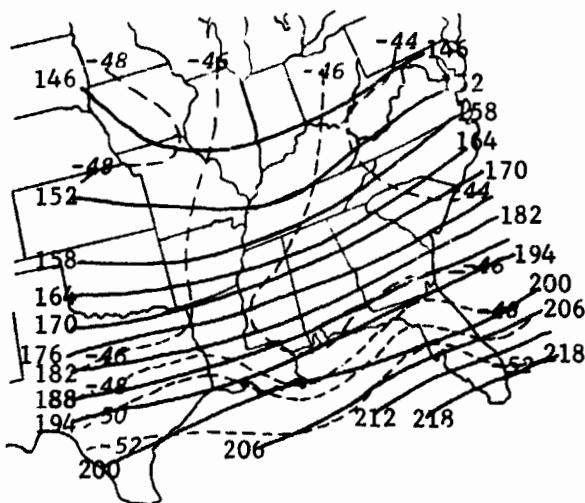
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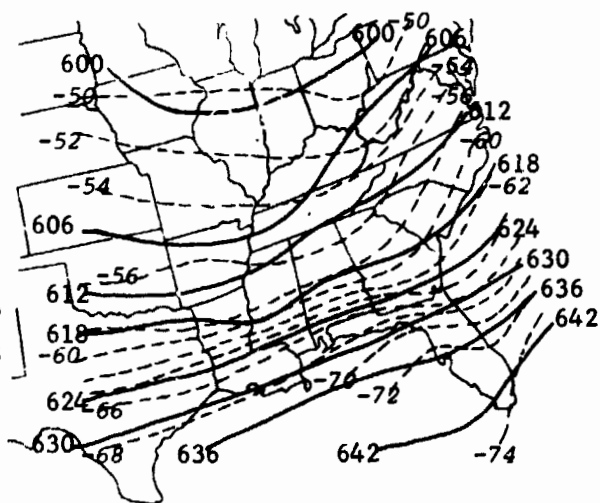
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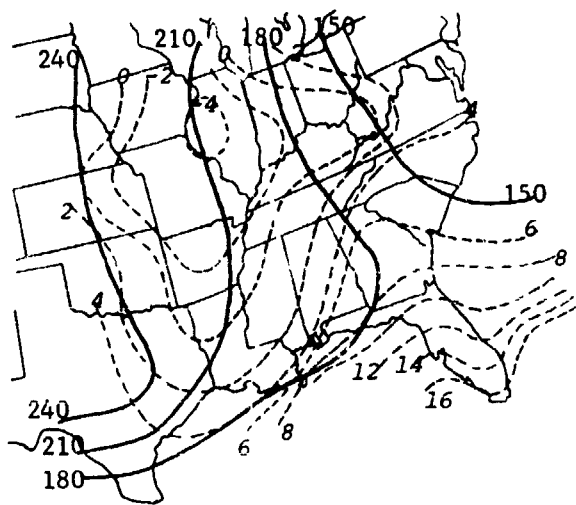


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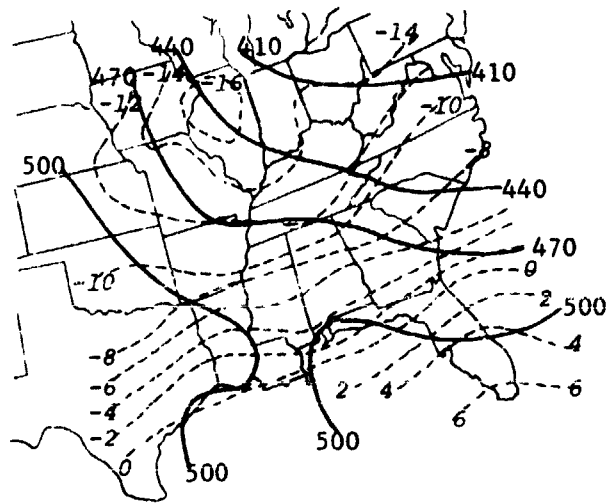


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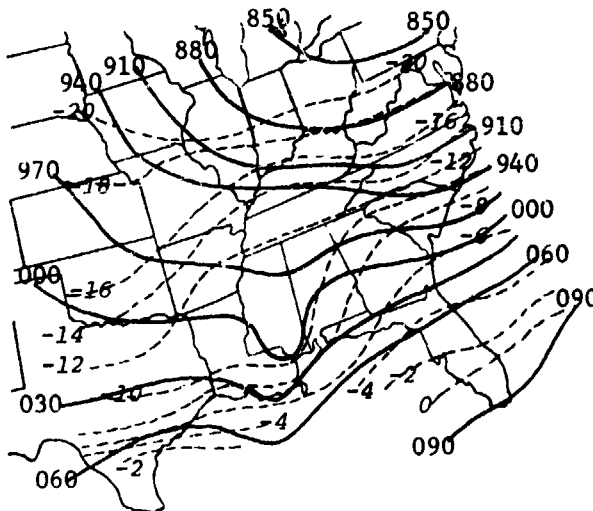
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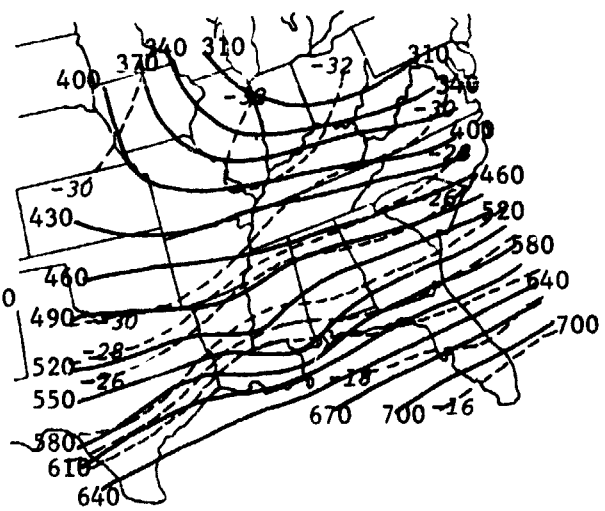
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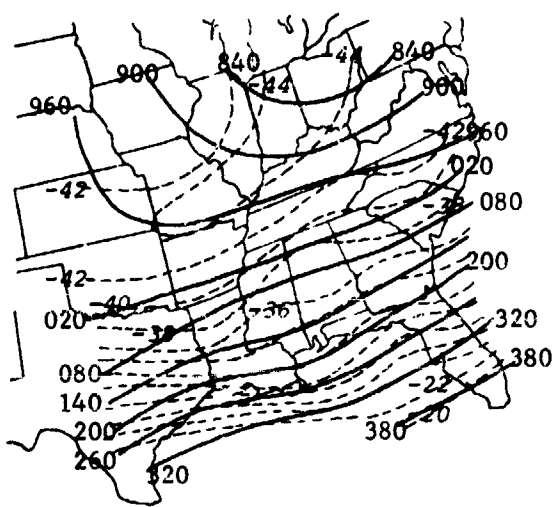


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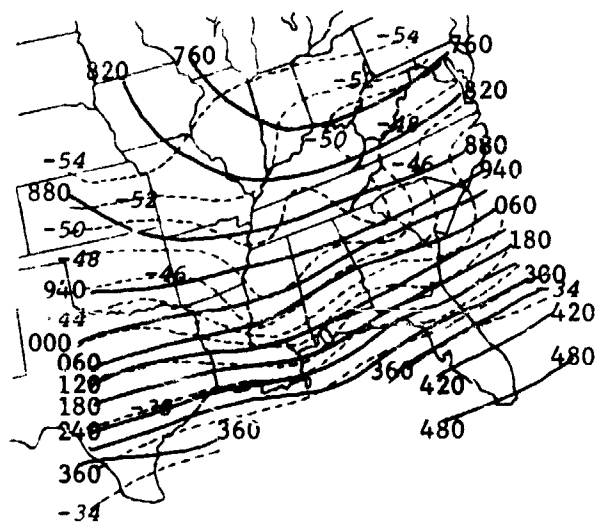


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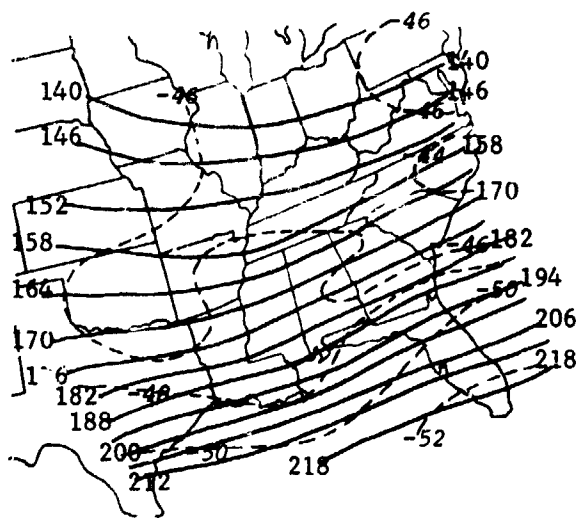
1800 GMT
February 21, 1964



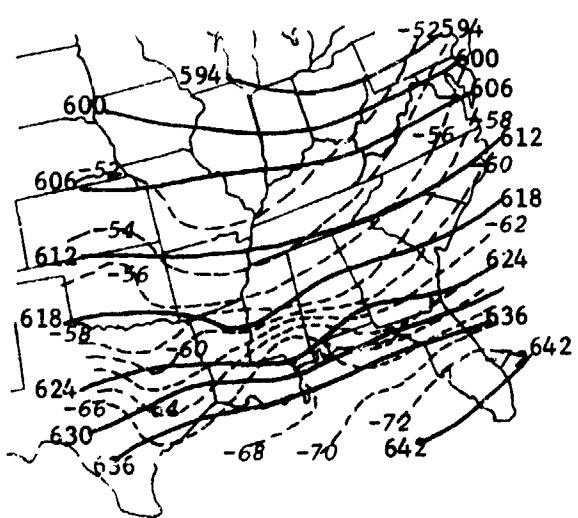
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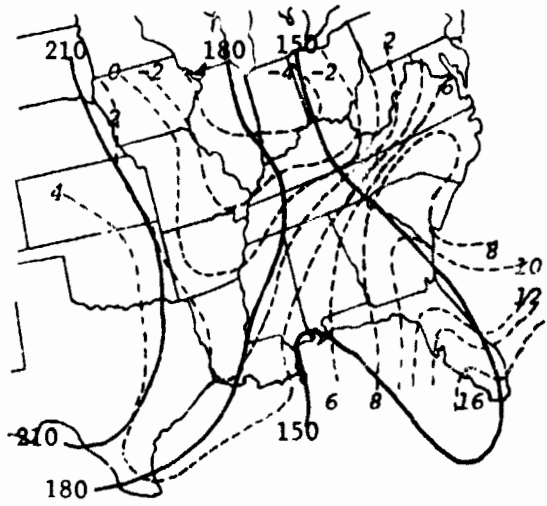


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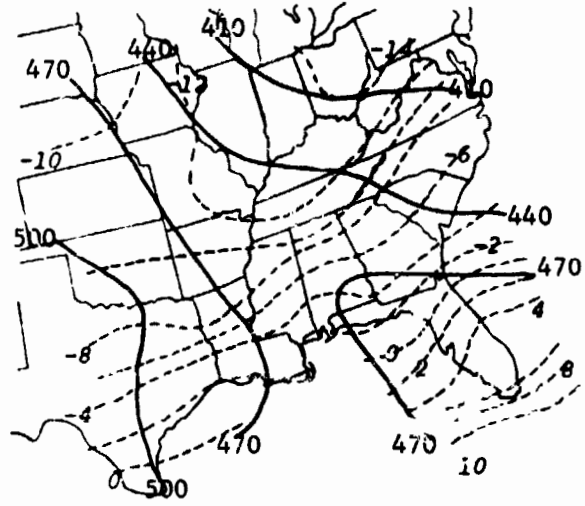


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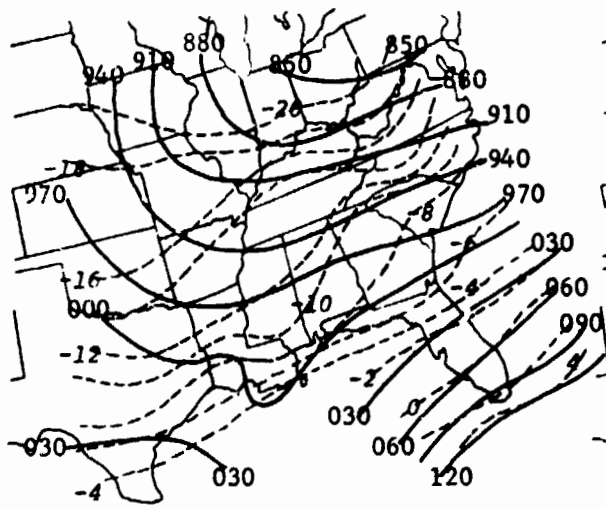
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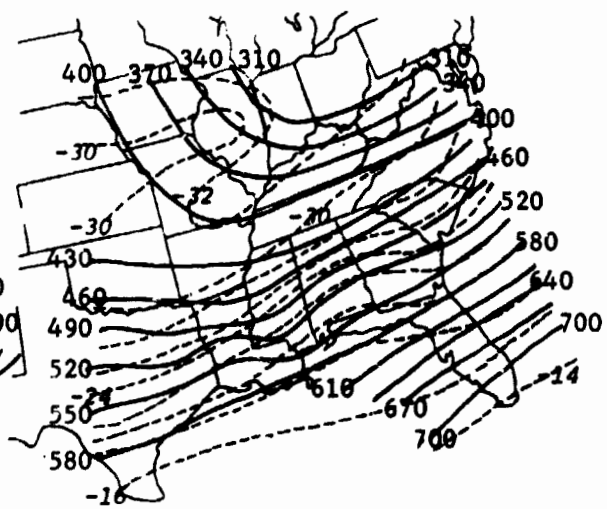
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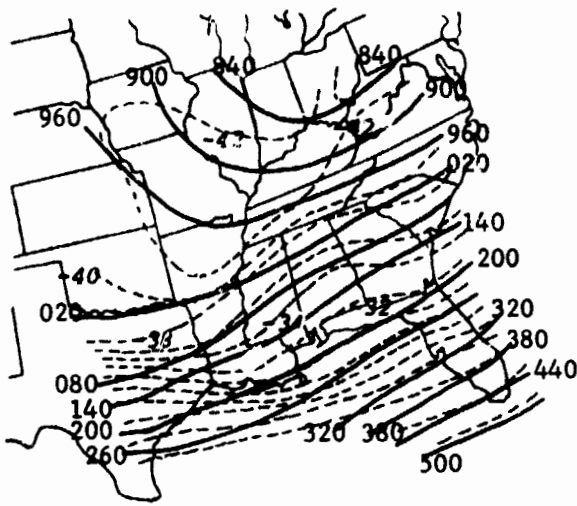


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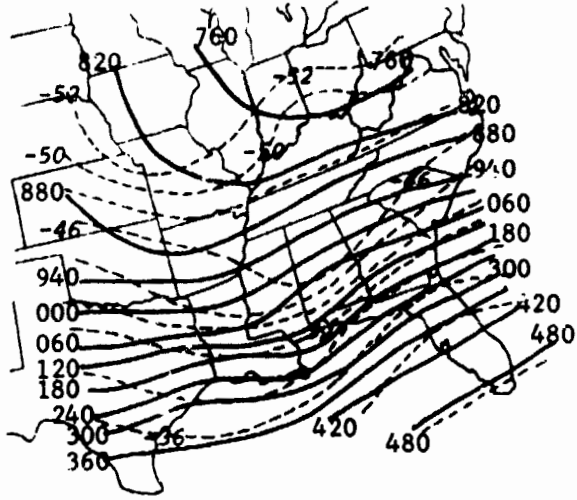


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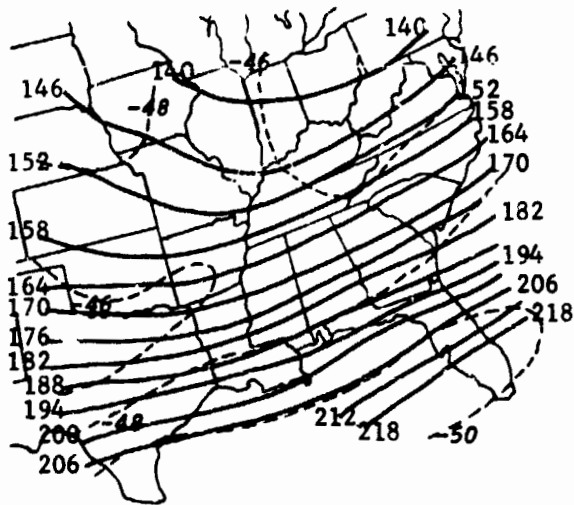
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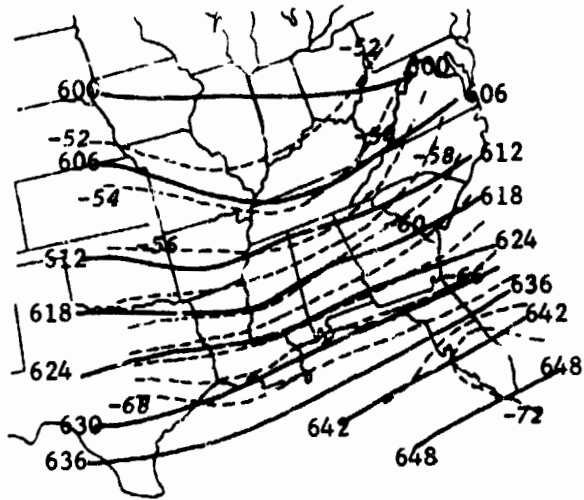
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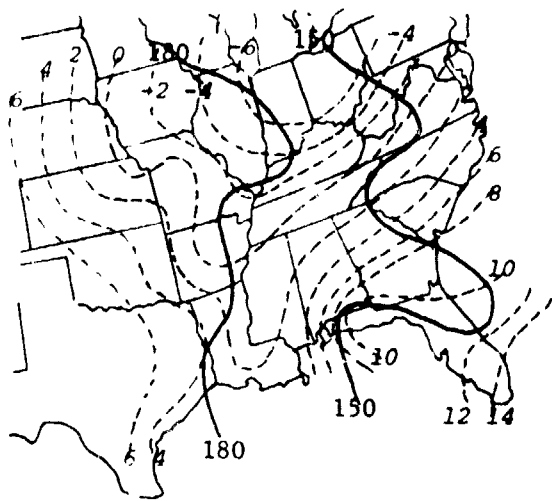


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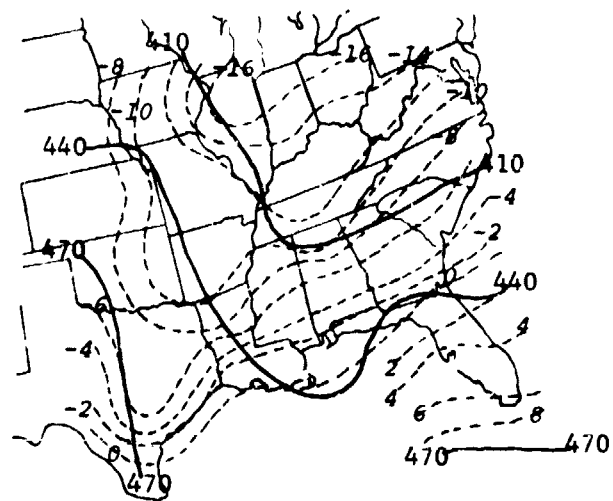


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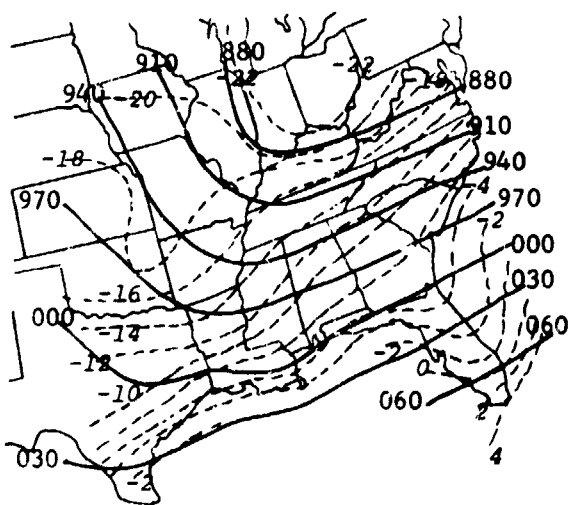
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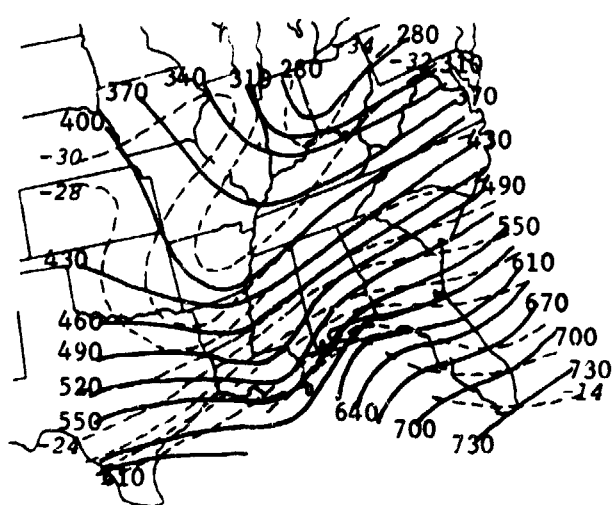
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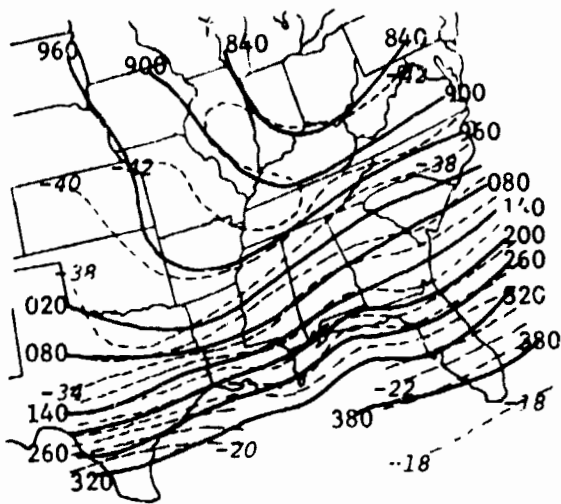


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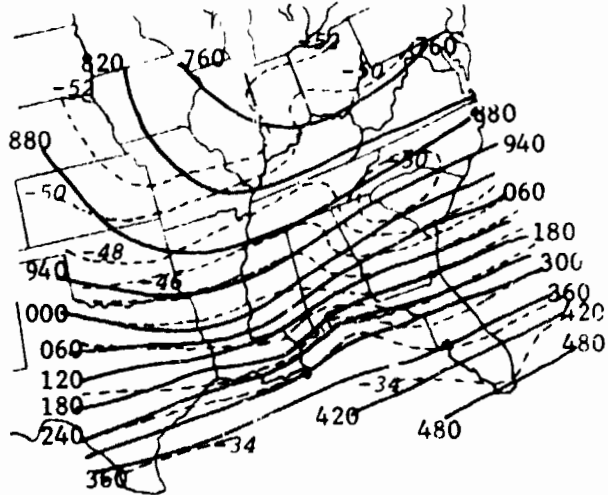


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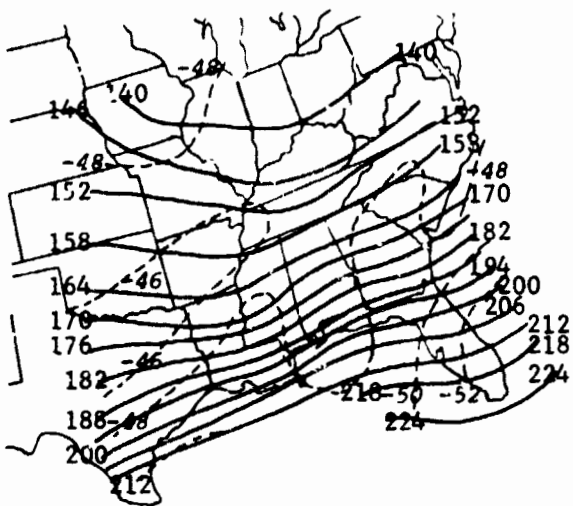
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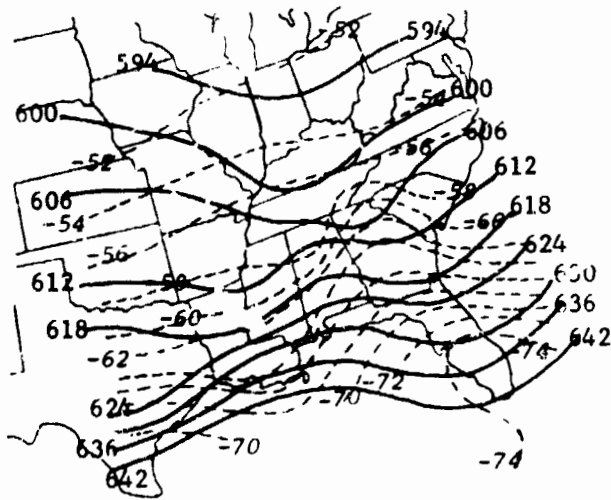
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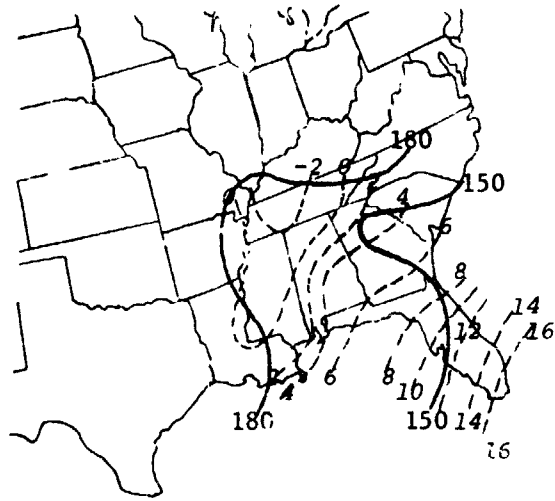


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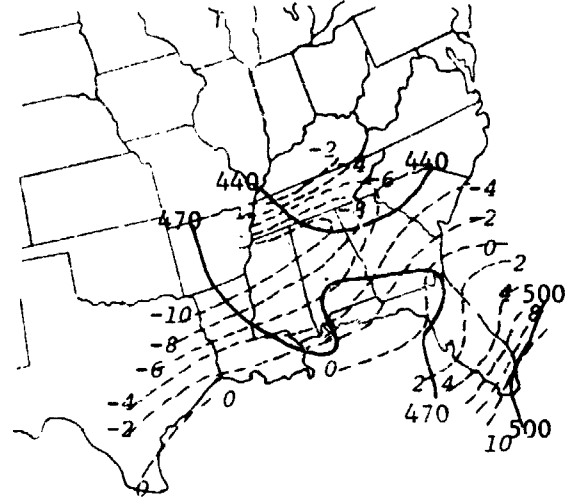


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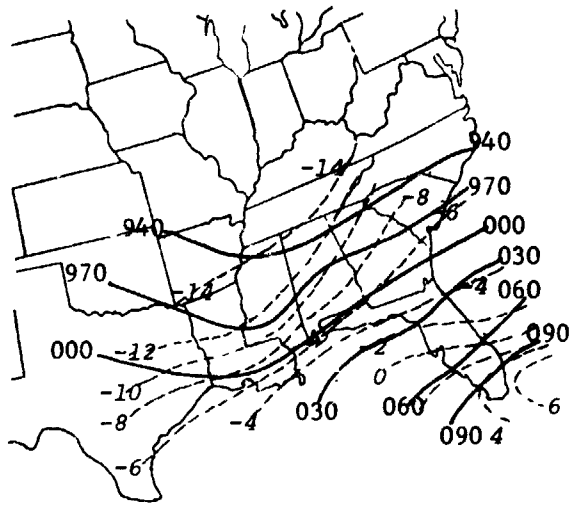
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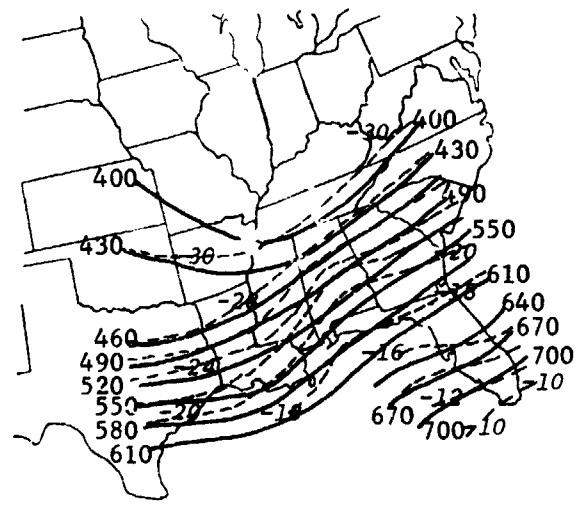
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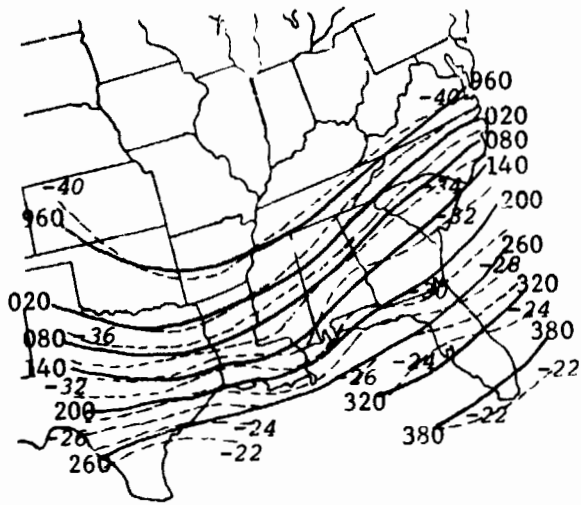


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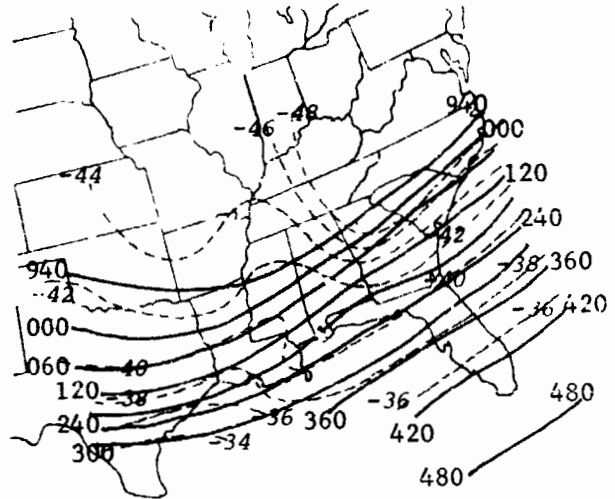


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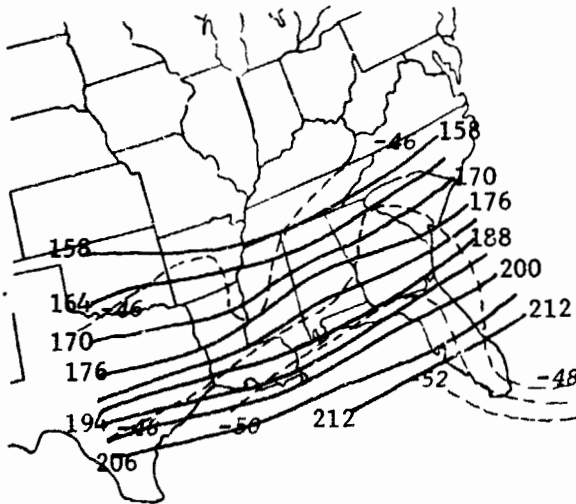
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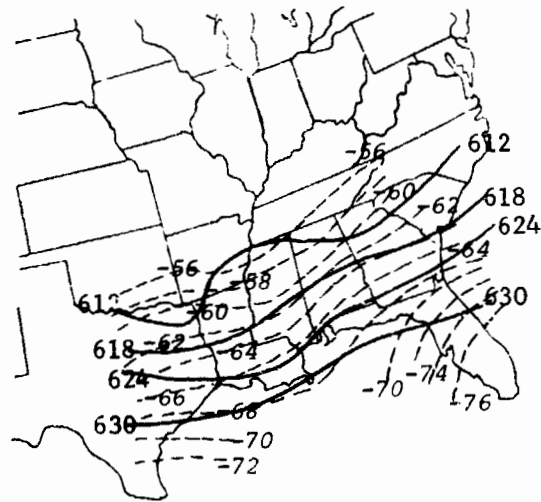
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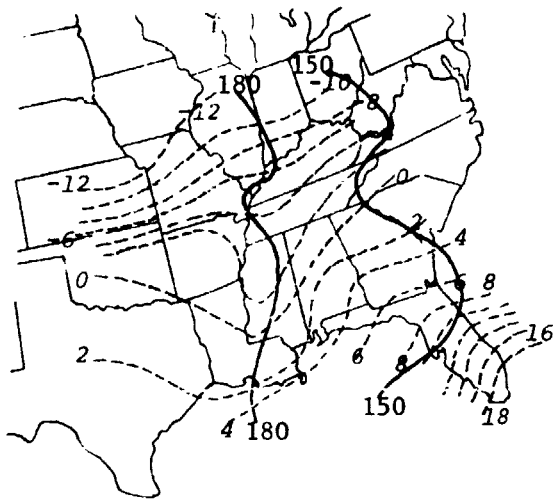


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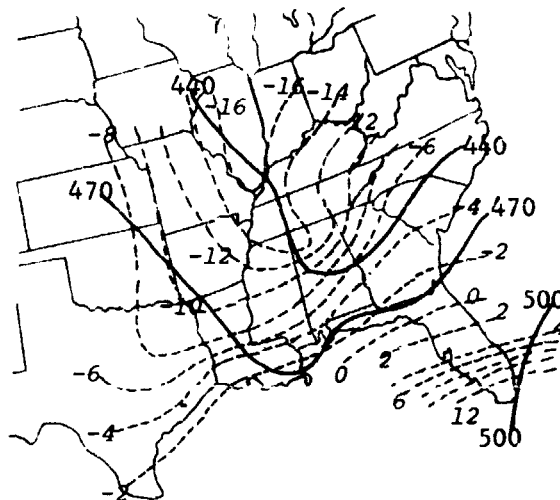


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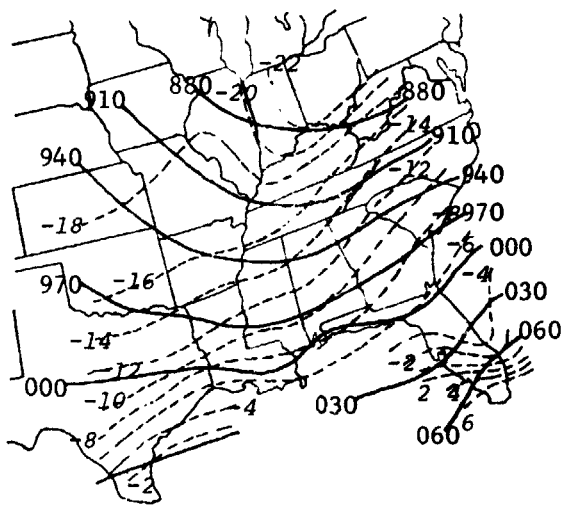
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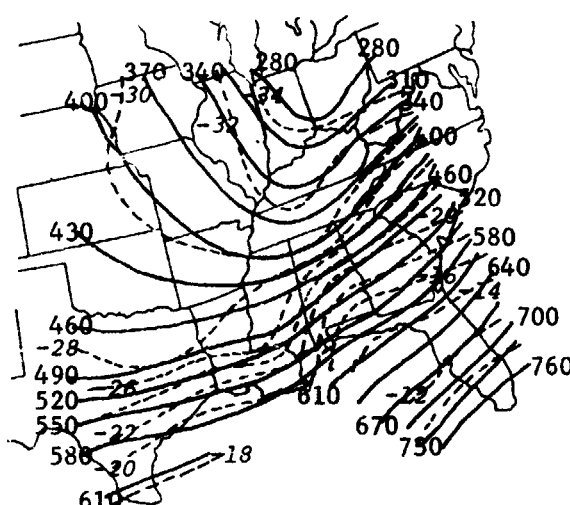
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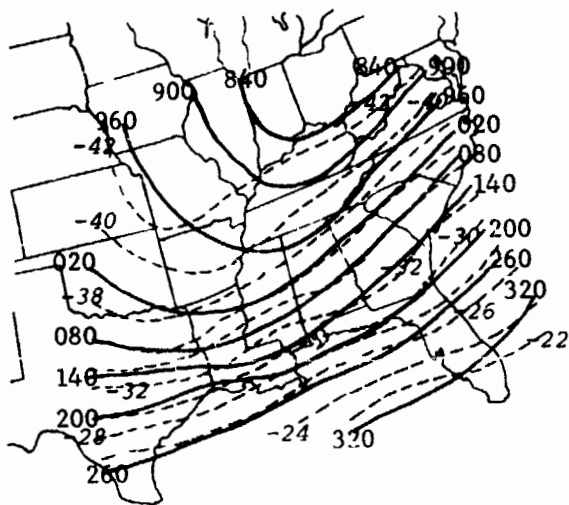


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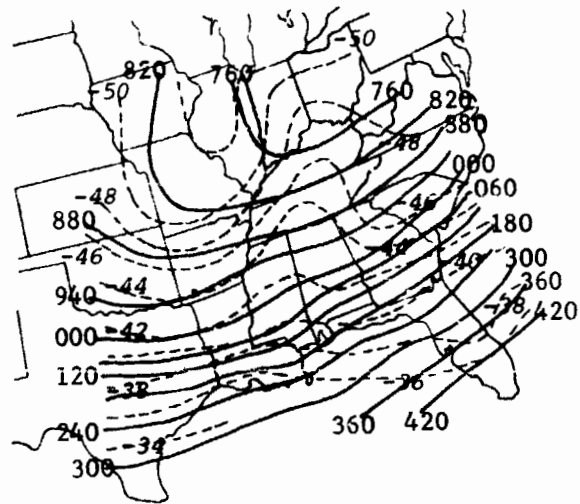


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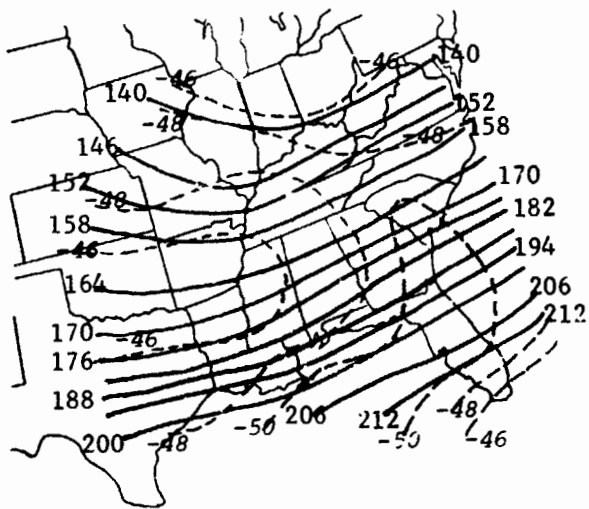
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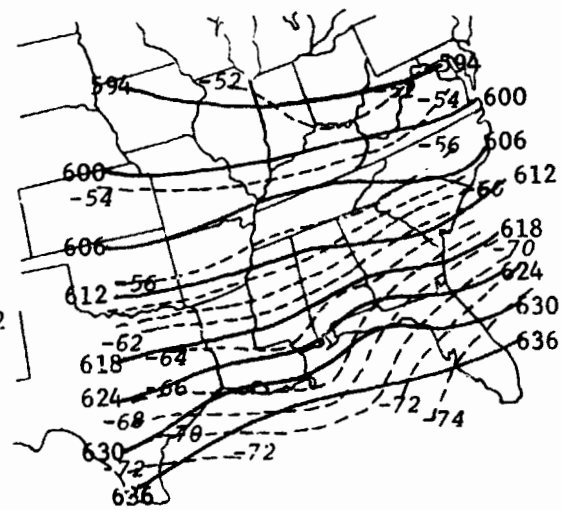
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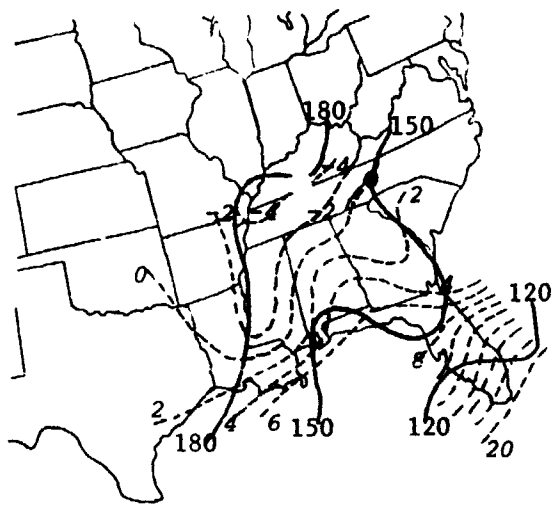


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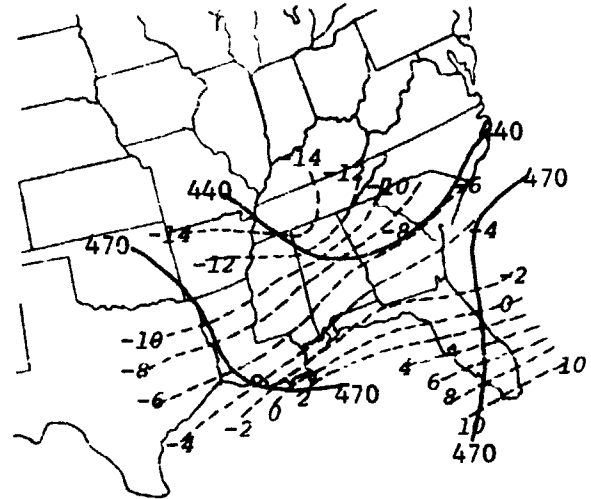


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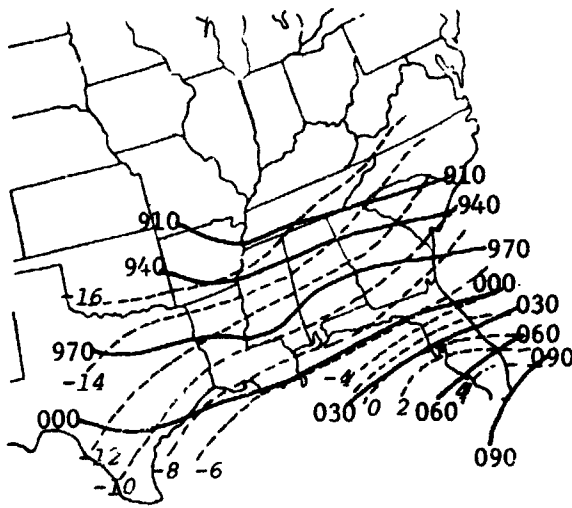
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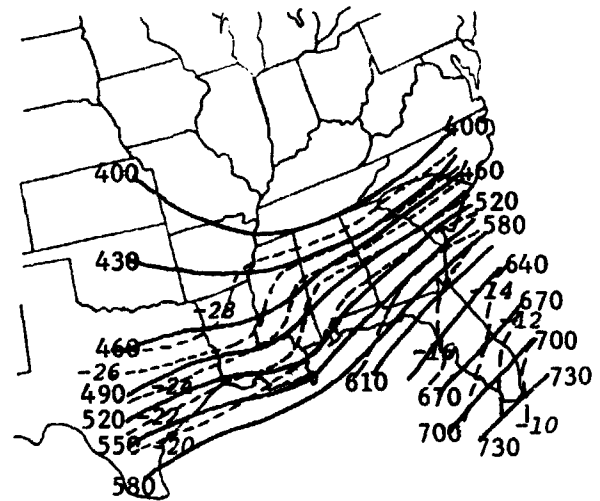
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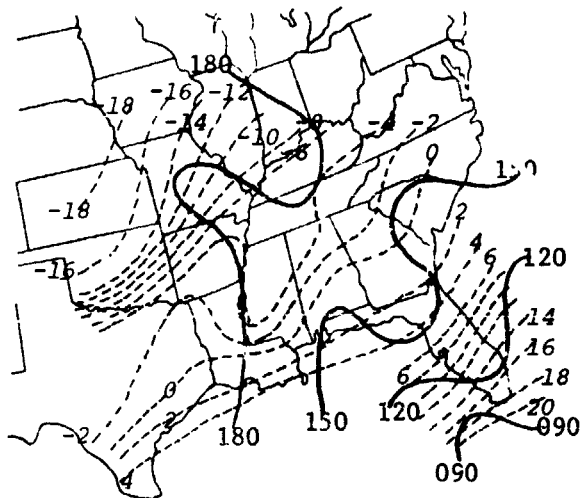


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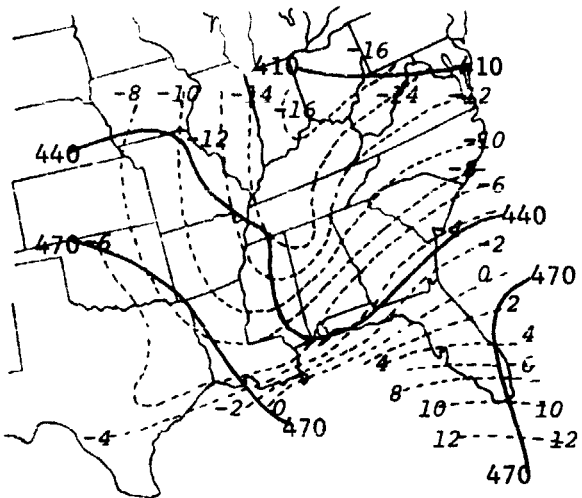


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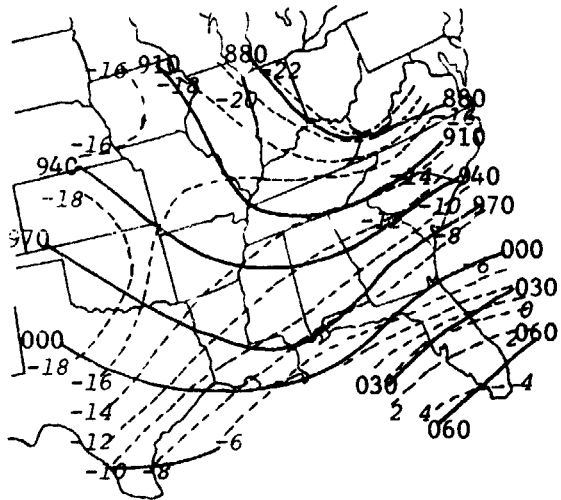
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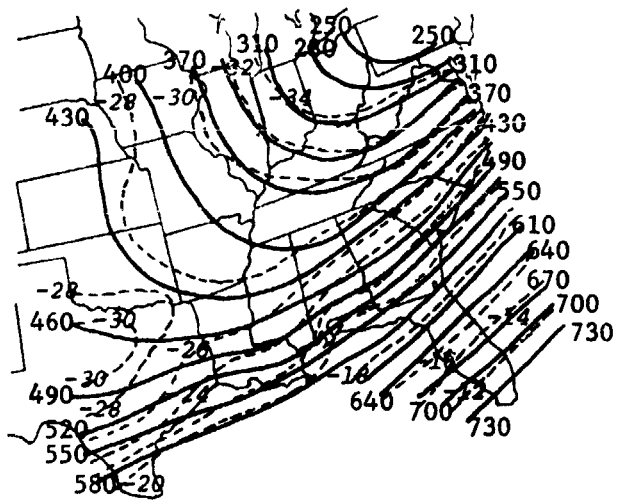
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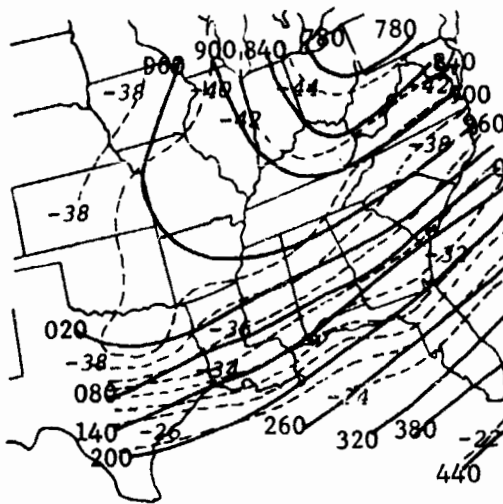


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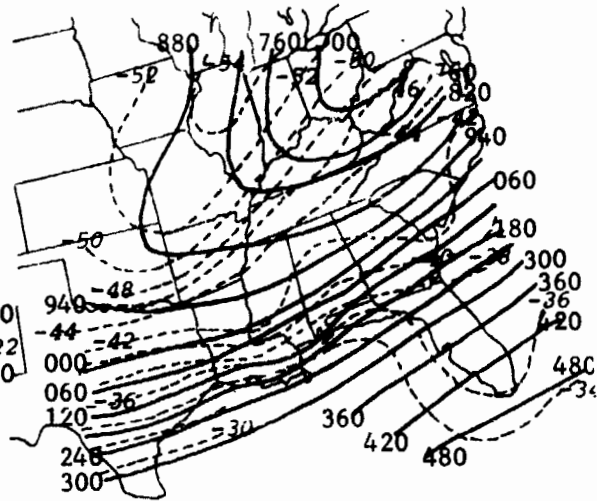


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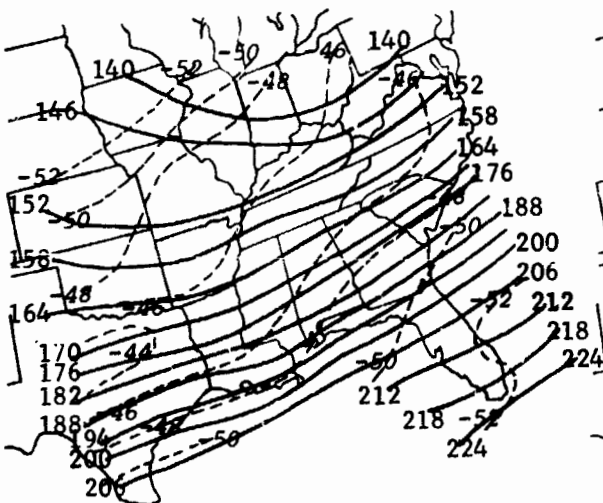
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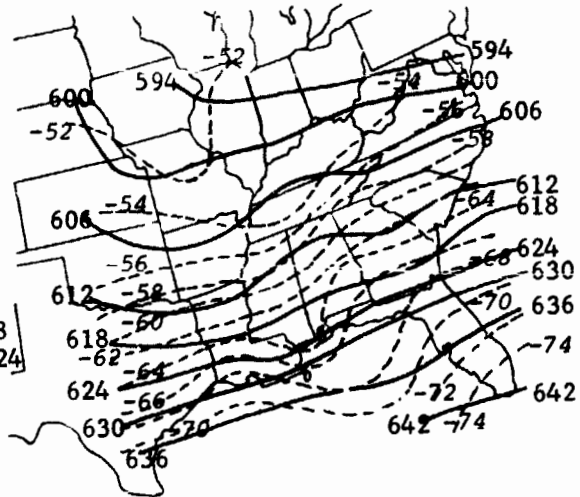
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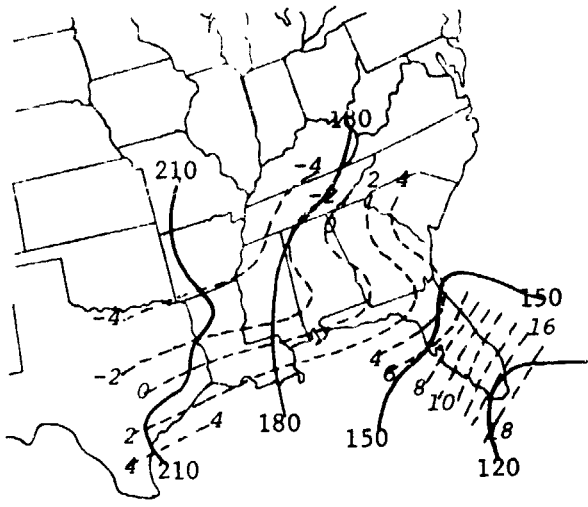


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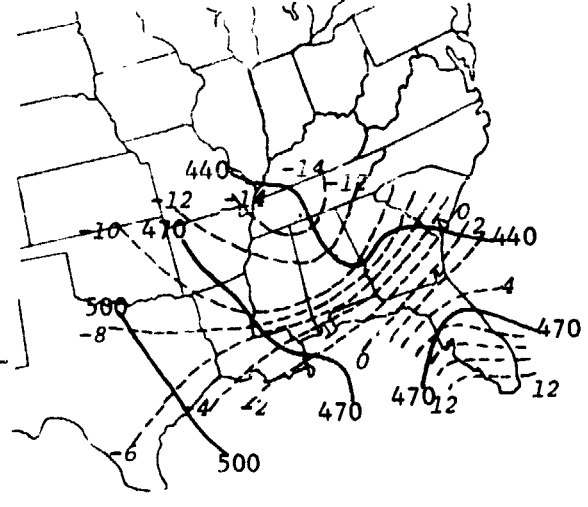


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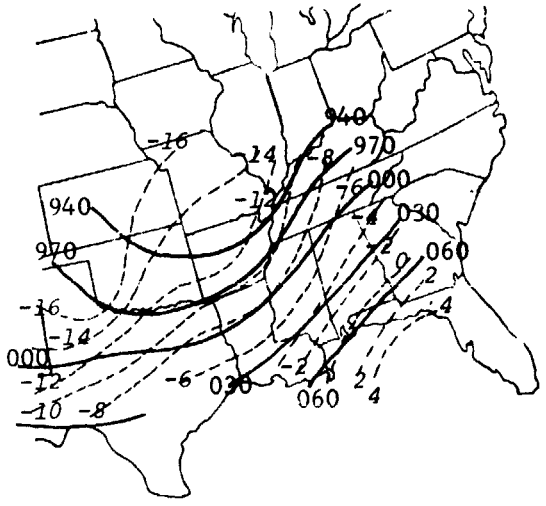
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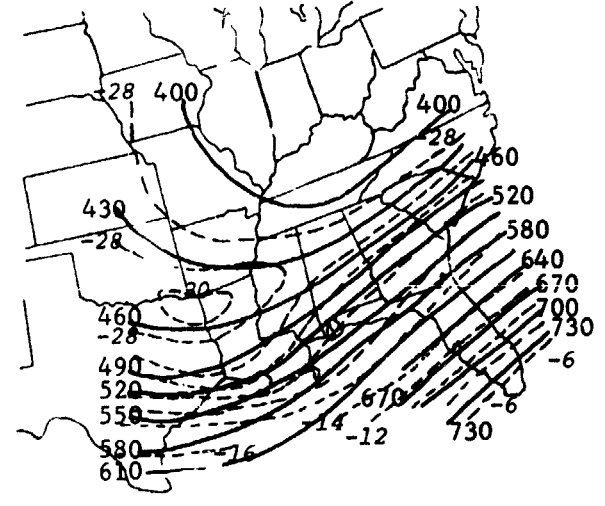
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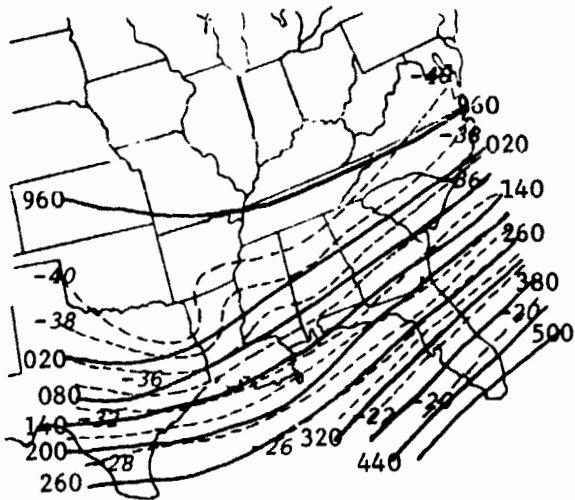


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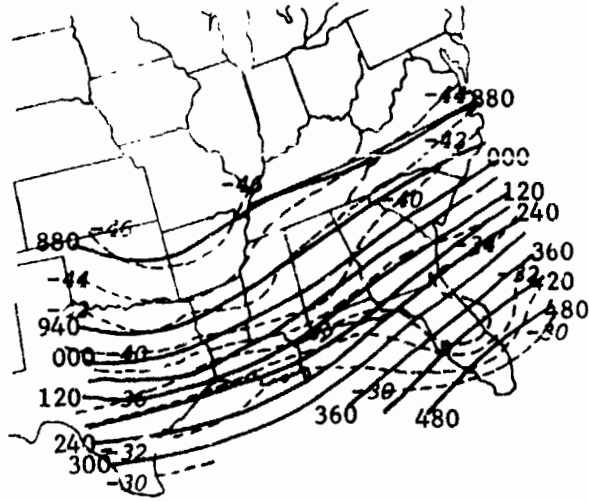


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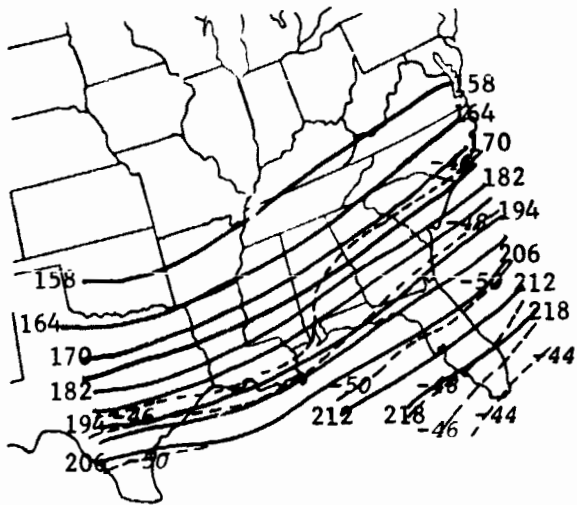
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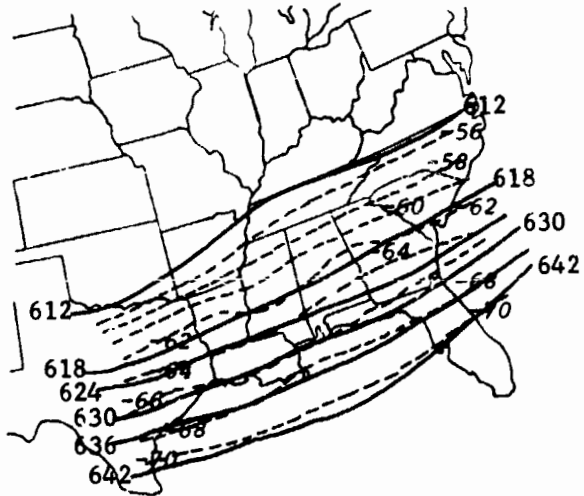
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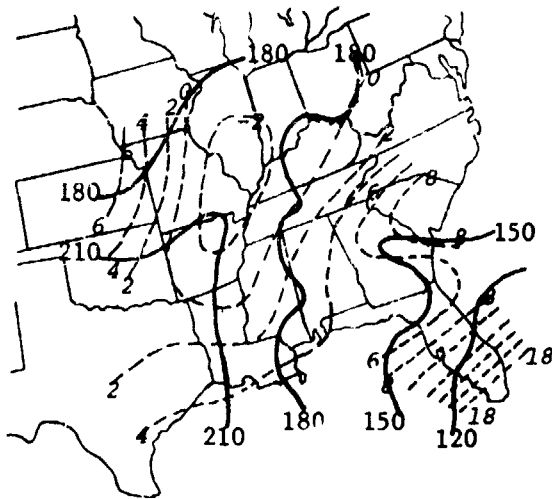


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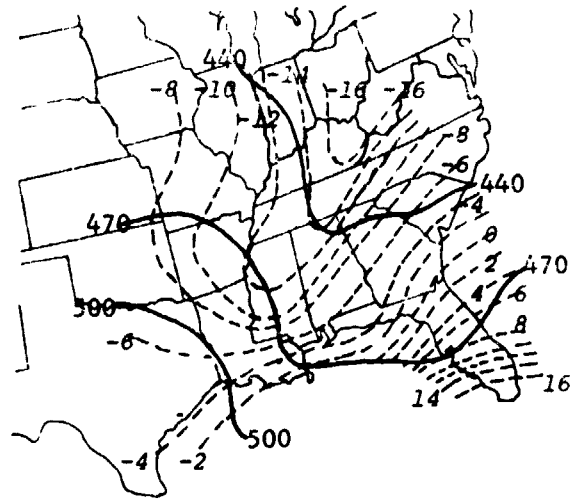


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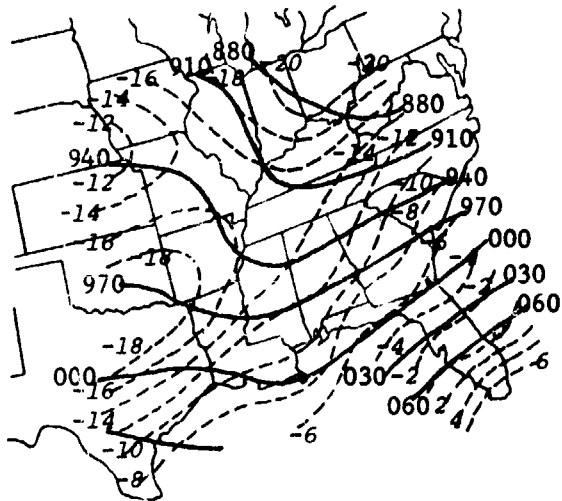
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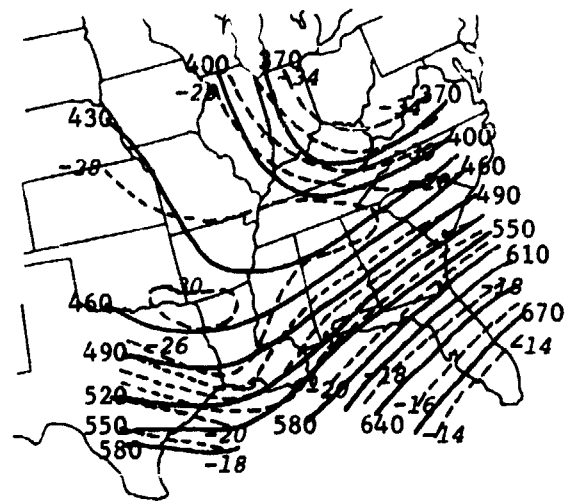
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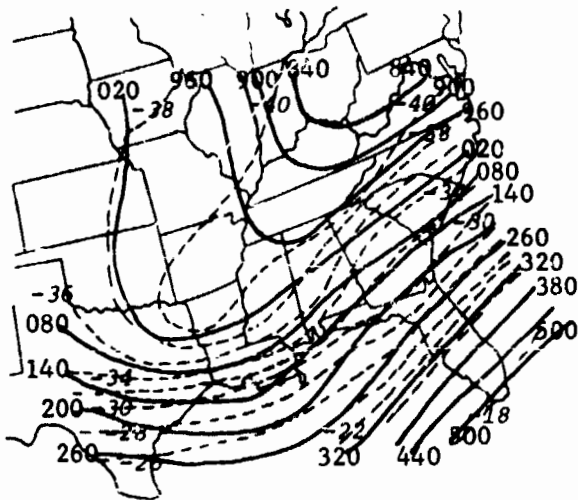


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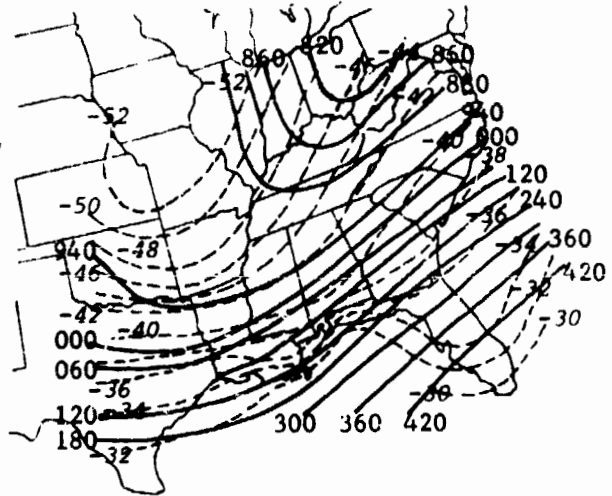


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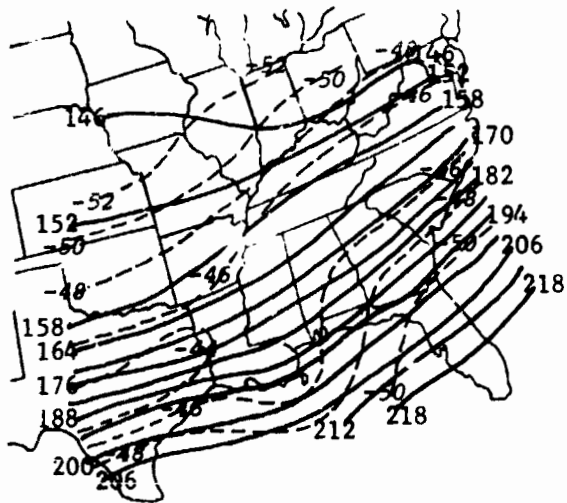
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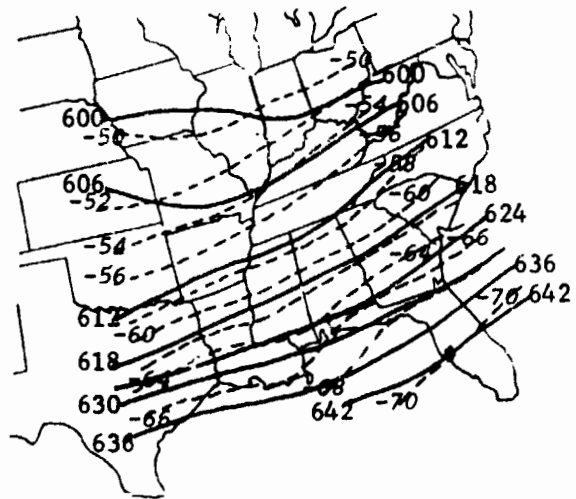
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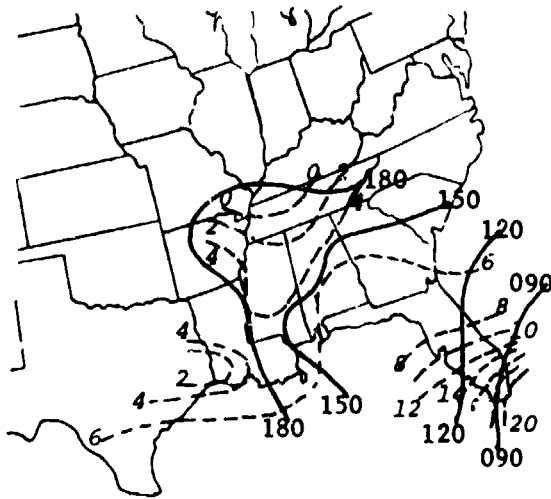


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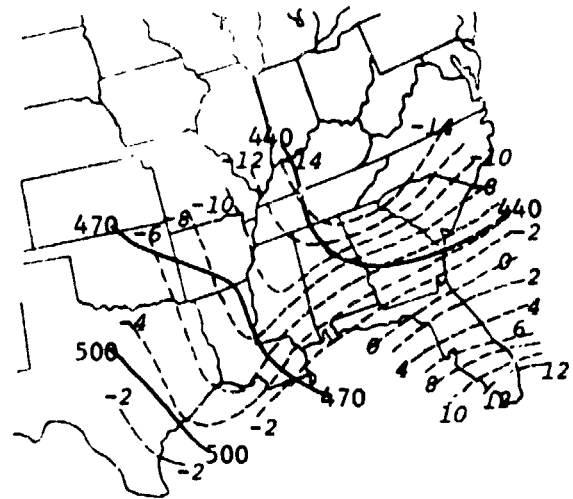


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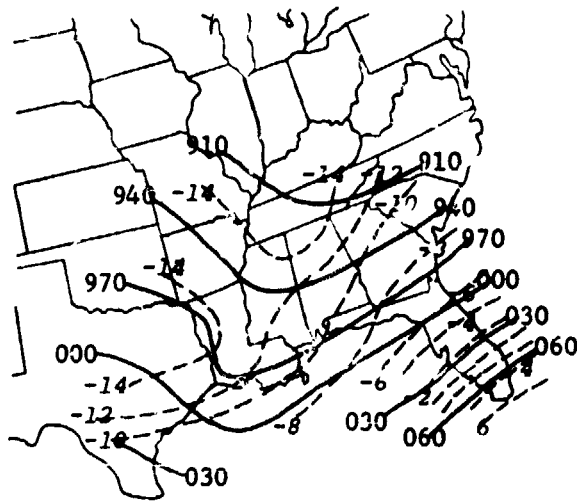
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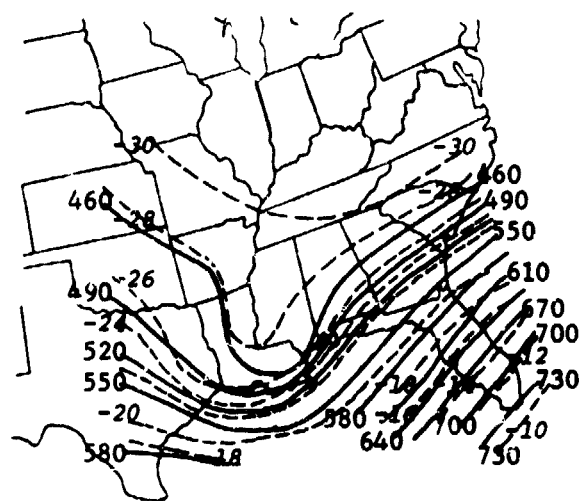
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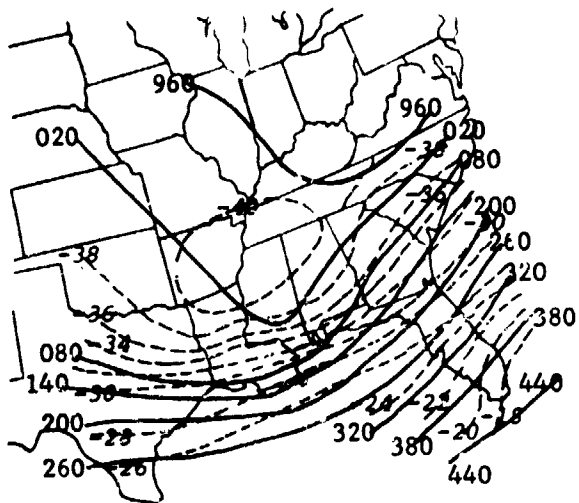


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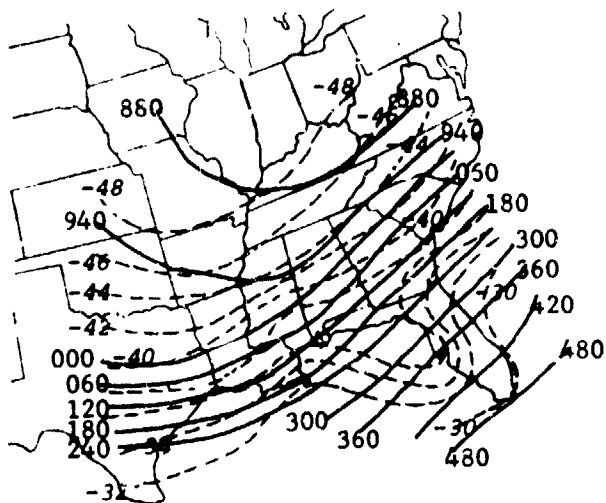


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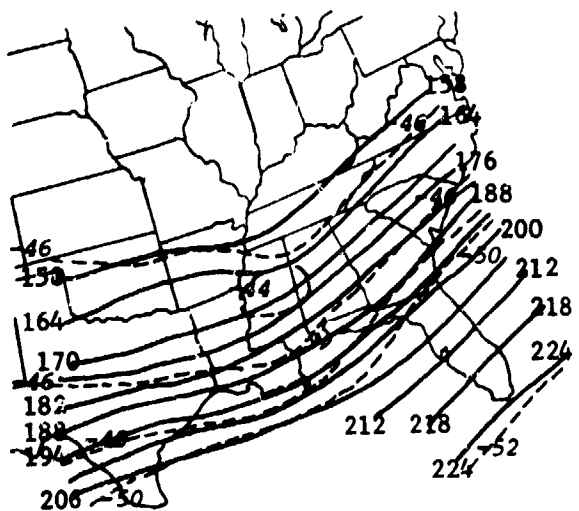
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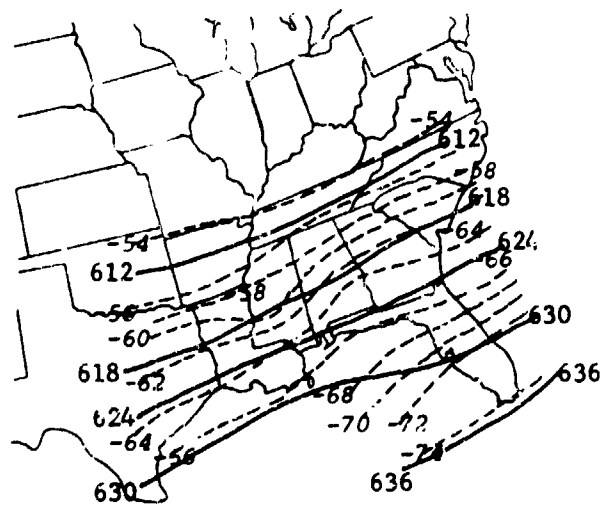
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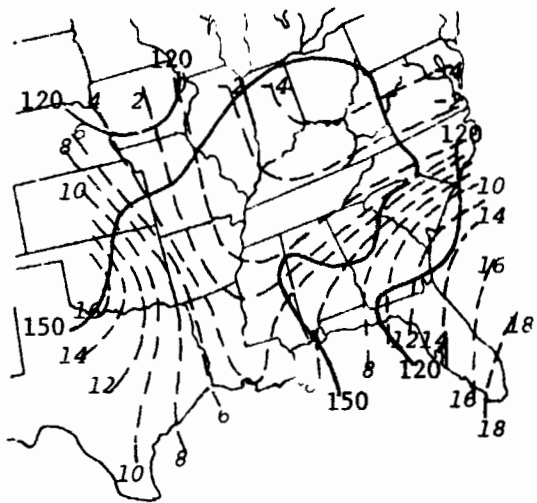


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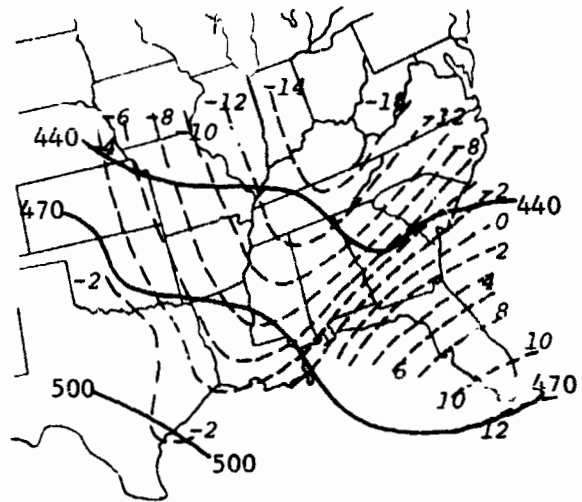


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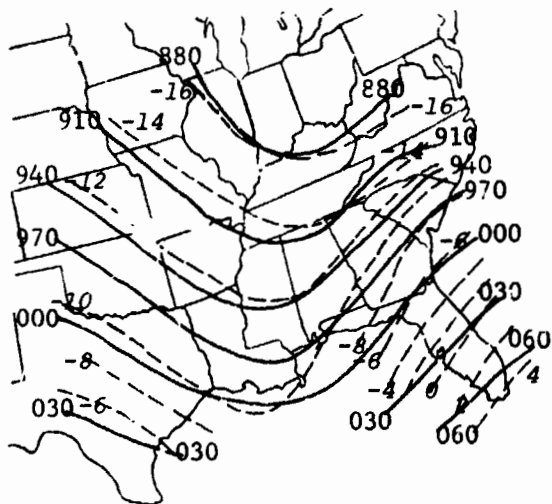
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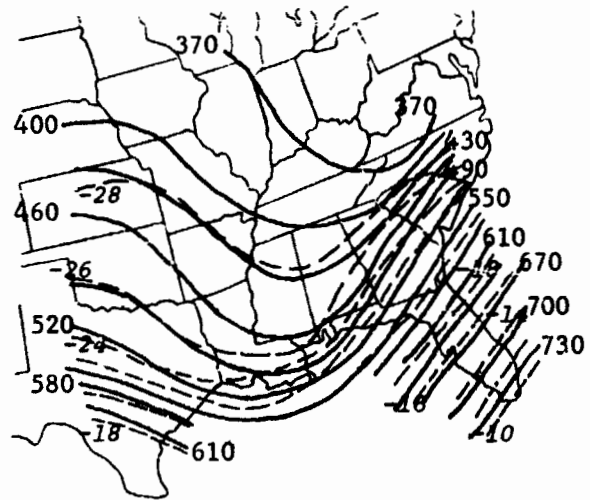
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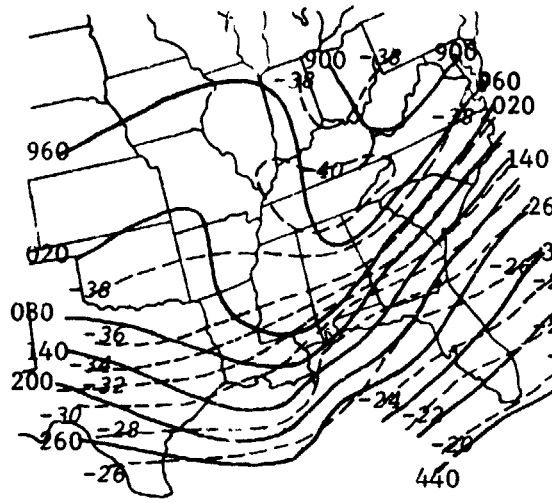


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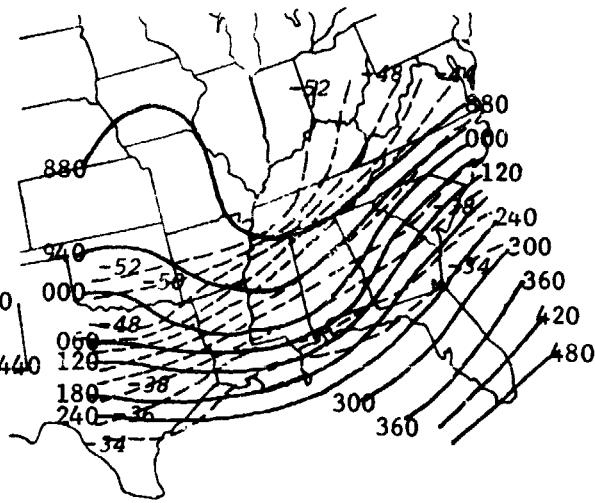


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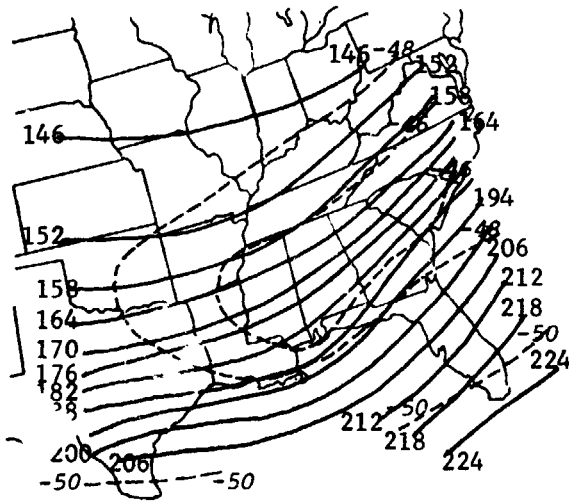
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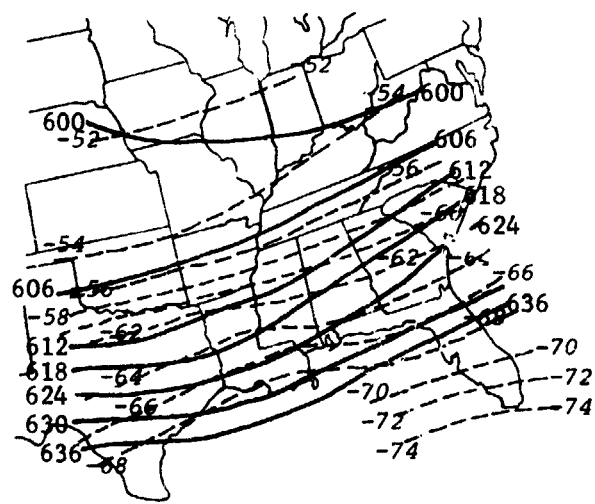
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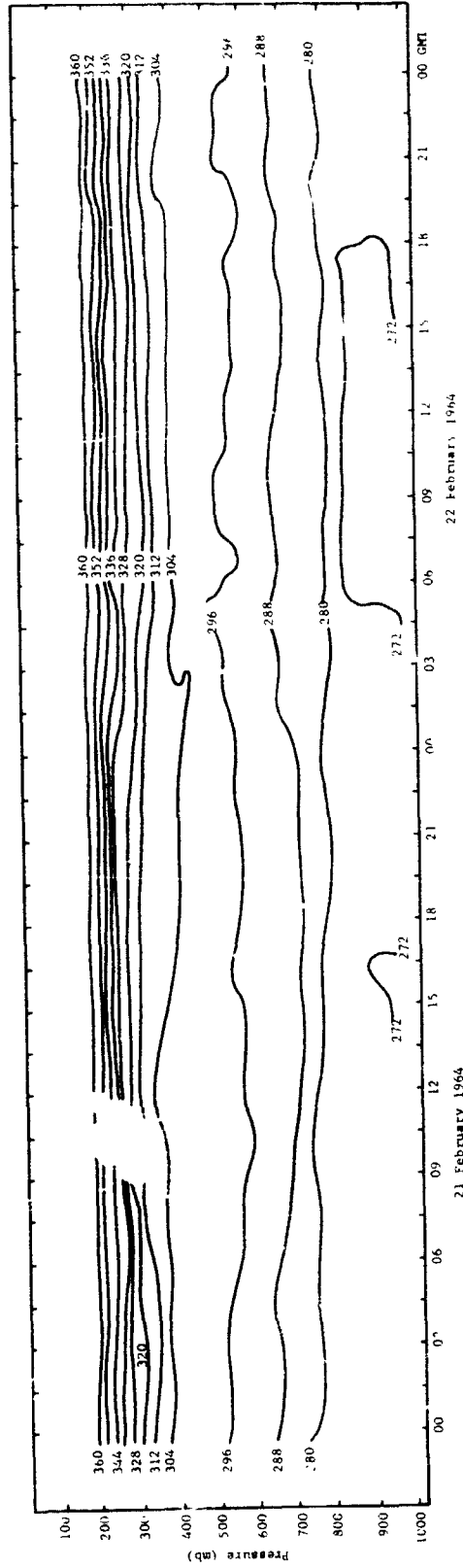
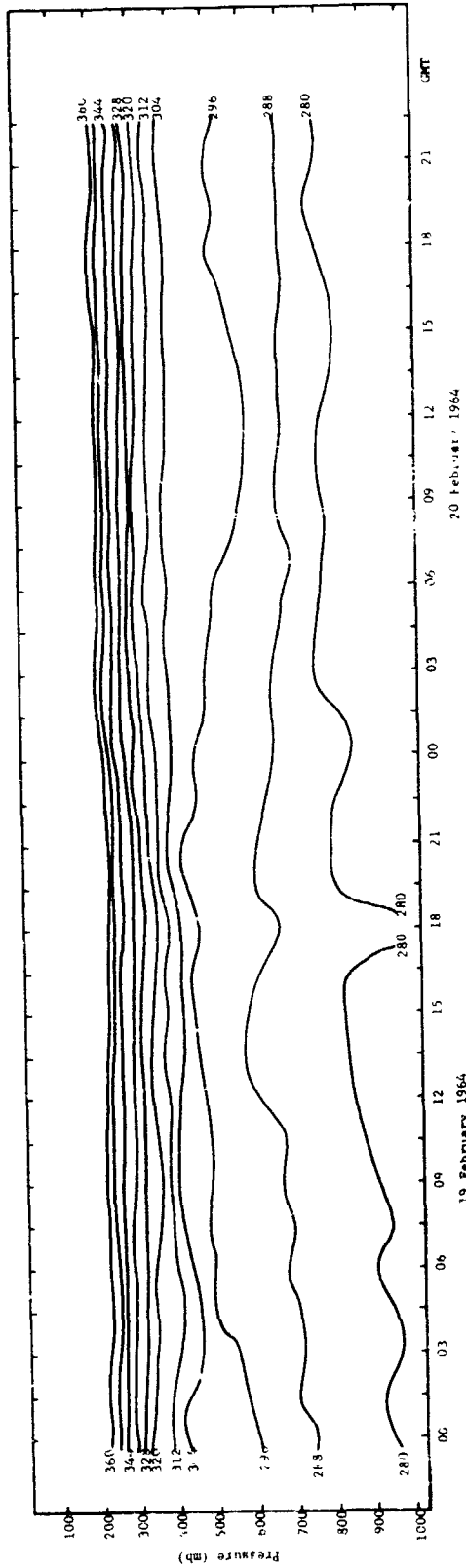
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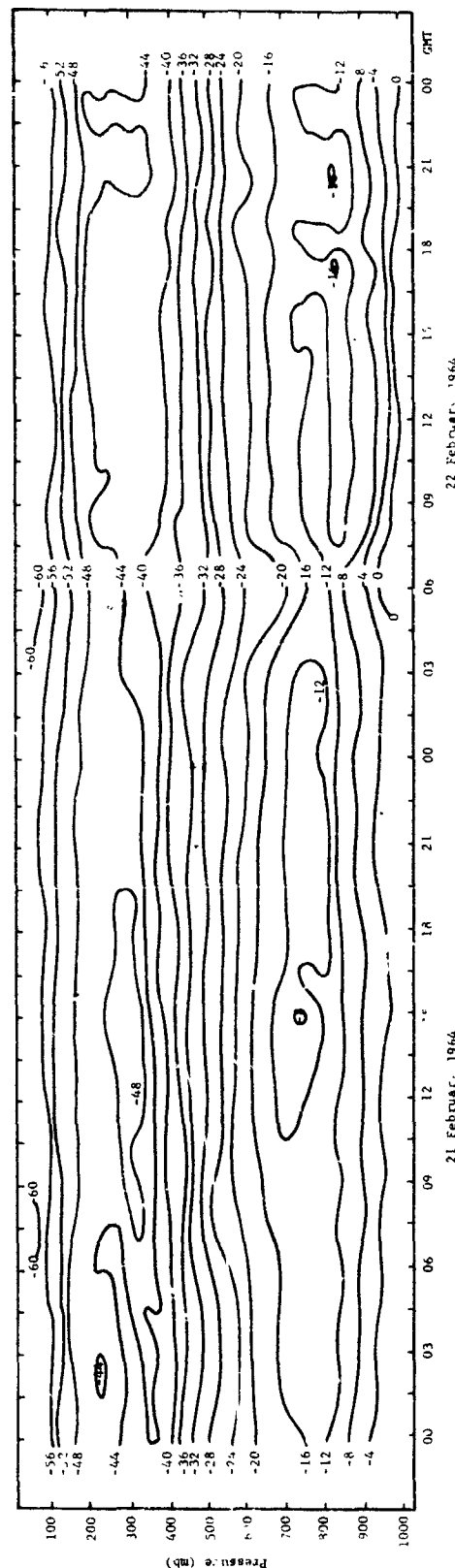
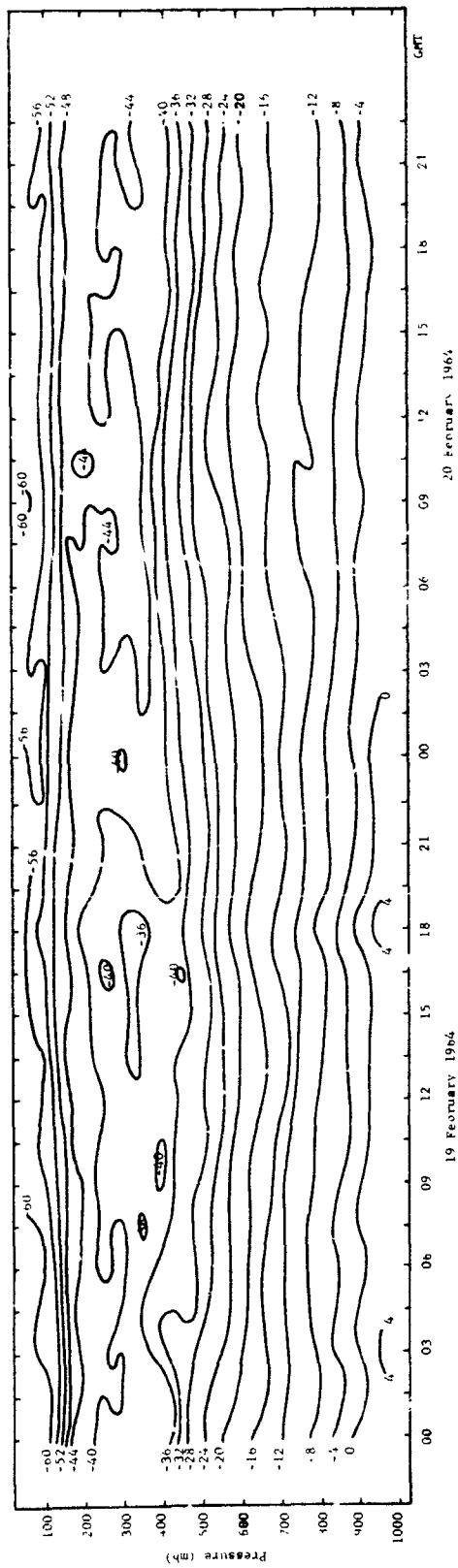
Time Cross Sections
prepared from AVE I Data

Station Number 11001
Marshall Space Flight Center, Alabama

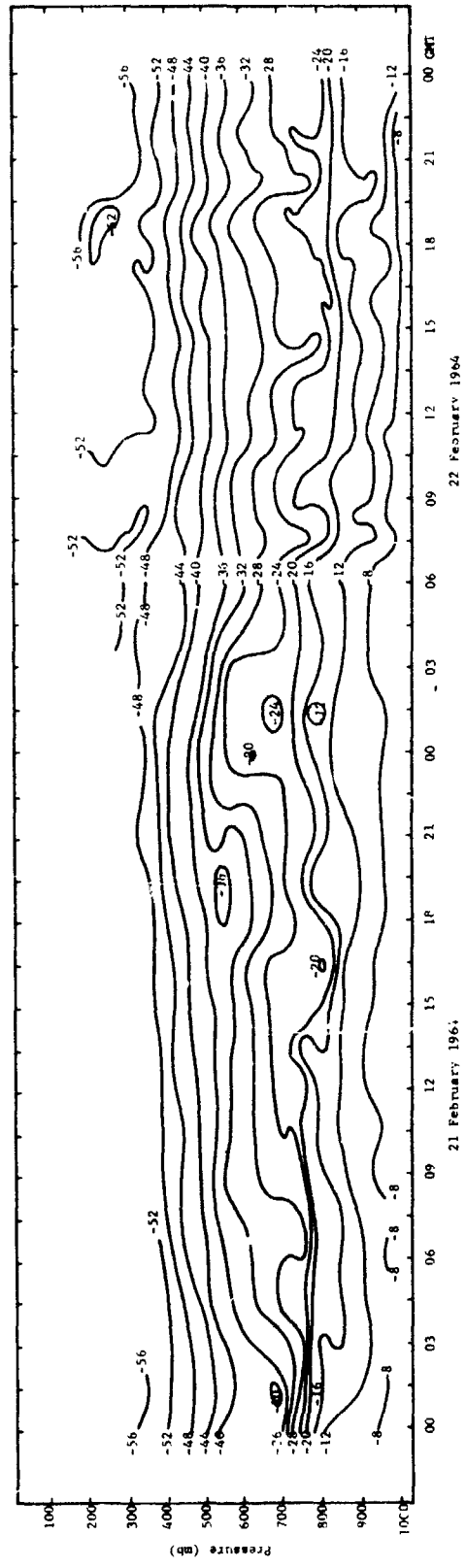
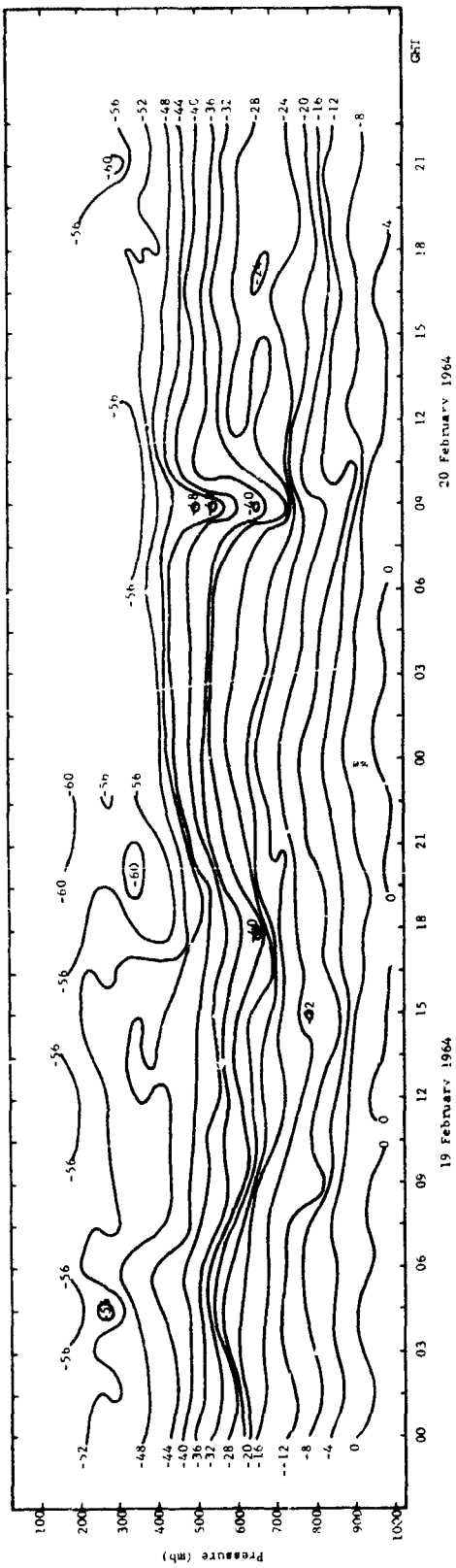
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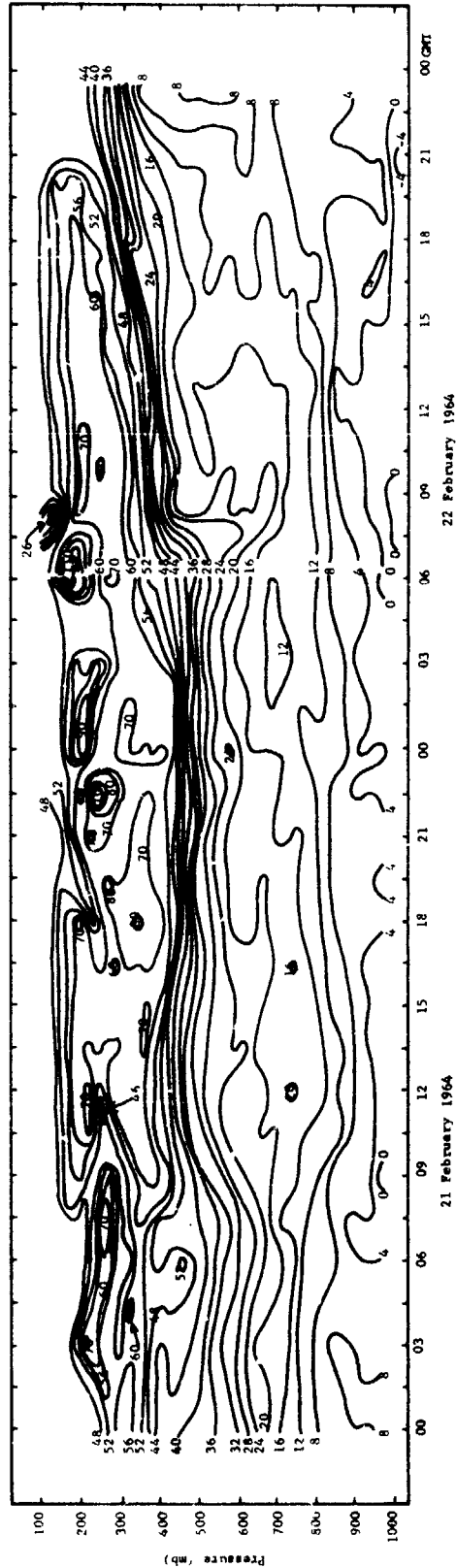
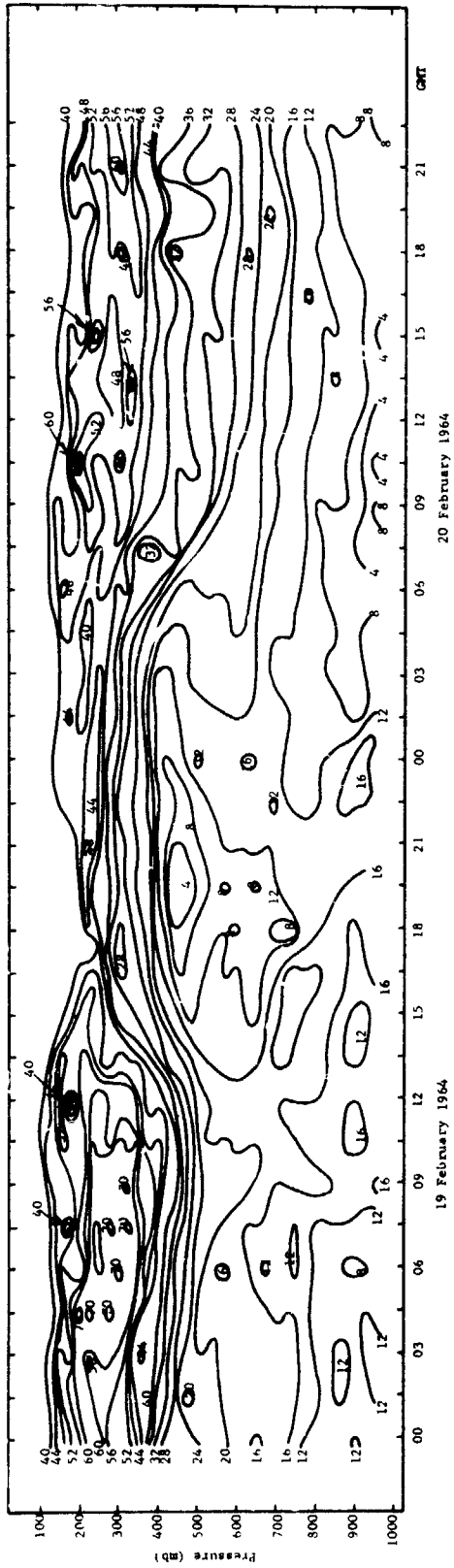
Potential Temperature ($^{\circ}$ K) for Marshall Space Flight Center, Station Number 11001



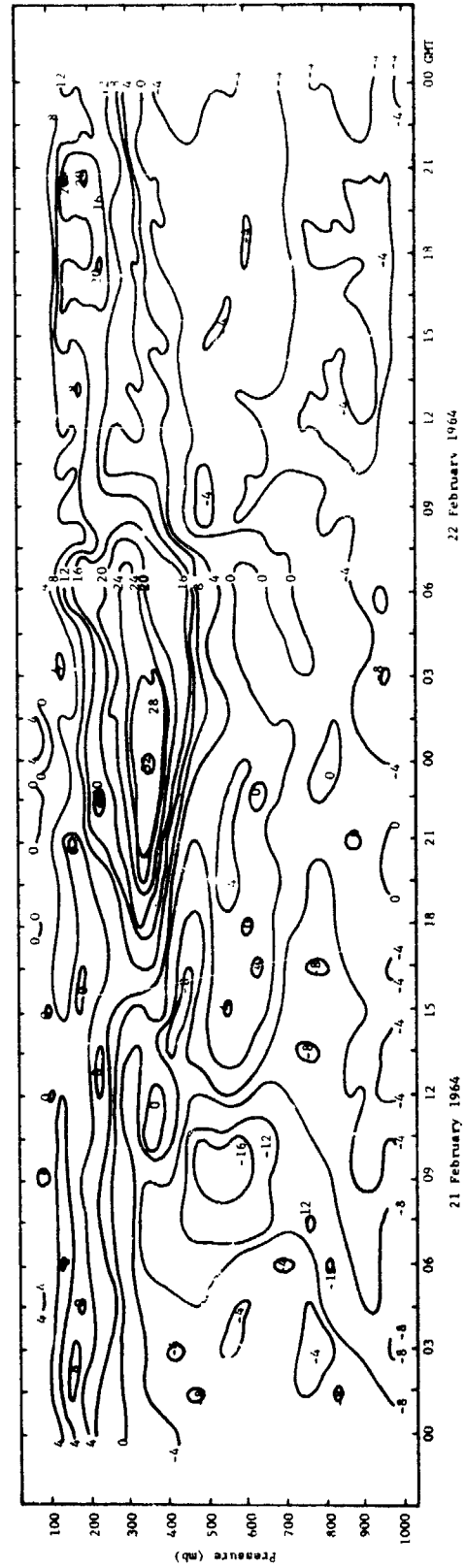
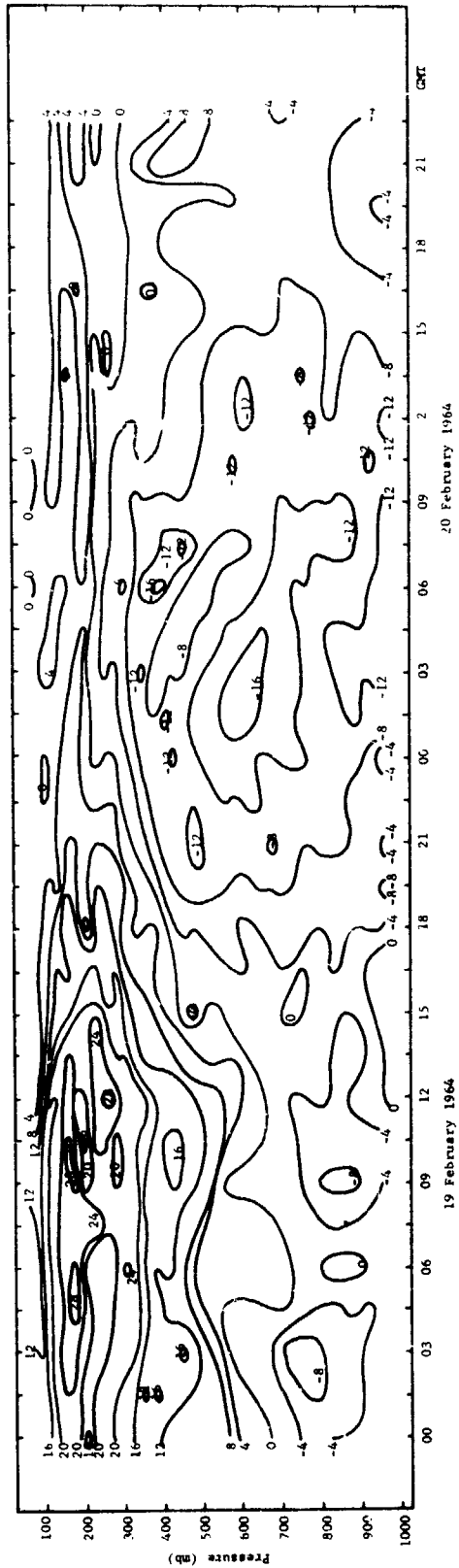
Temperature ($^{\circ}$ C) for Marshall Space Flight Center, Station Number 11001



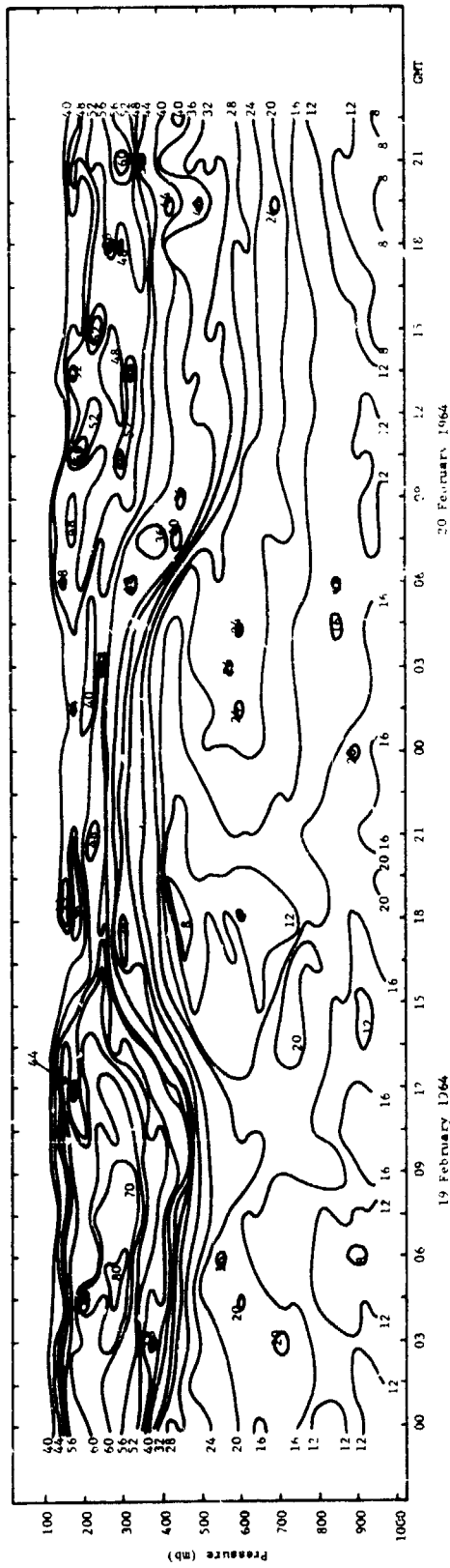
Dewpoint Temperature ($^{\circ}$ C) for Marshall Space Flight Center, Station Number 11001



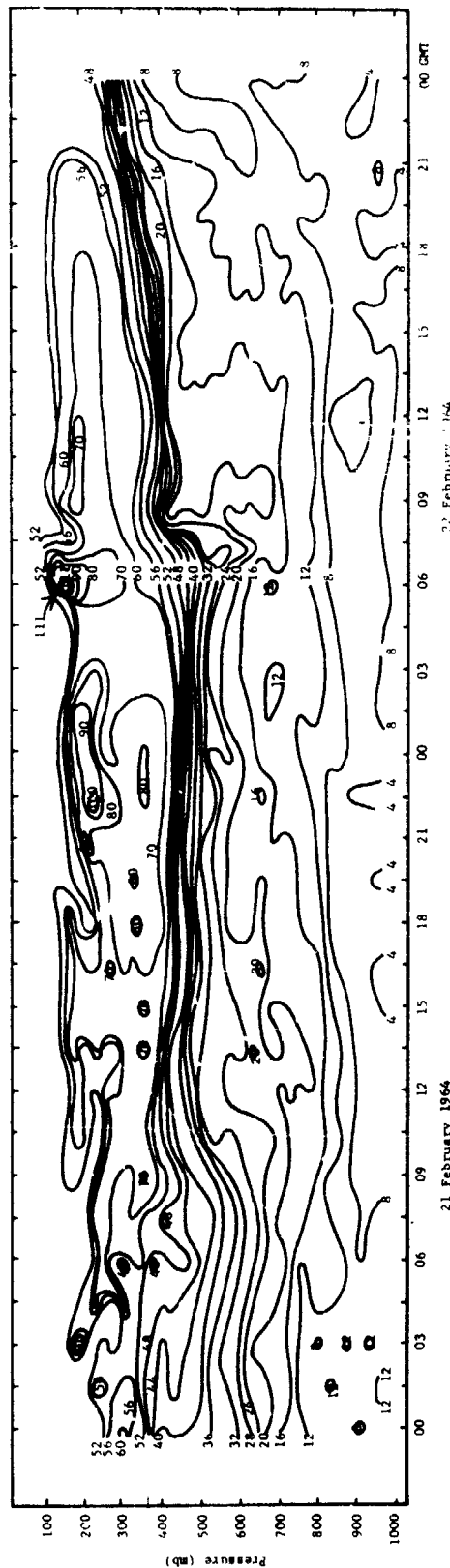
Zonal Wind Component (m/sec) for Marshall Space Flight Center, Station Number 11001



Meridional Wind Component (m/sec) for Marshall Space Flight Center, Station Number 11001

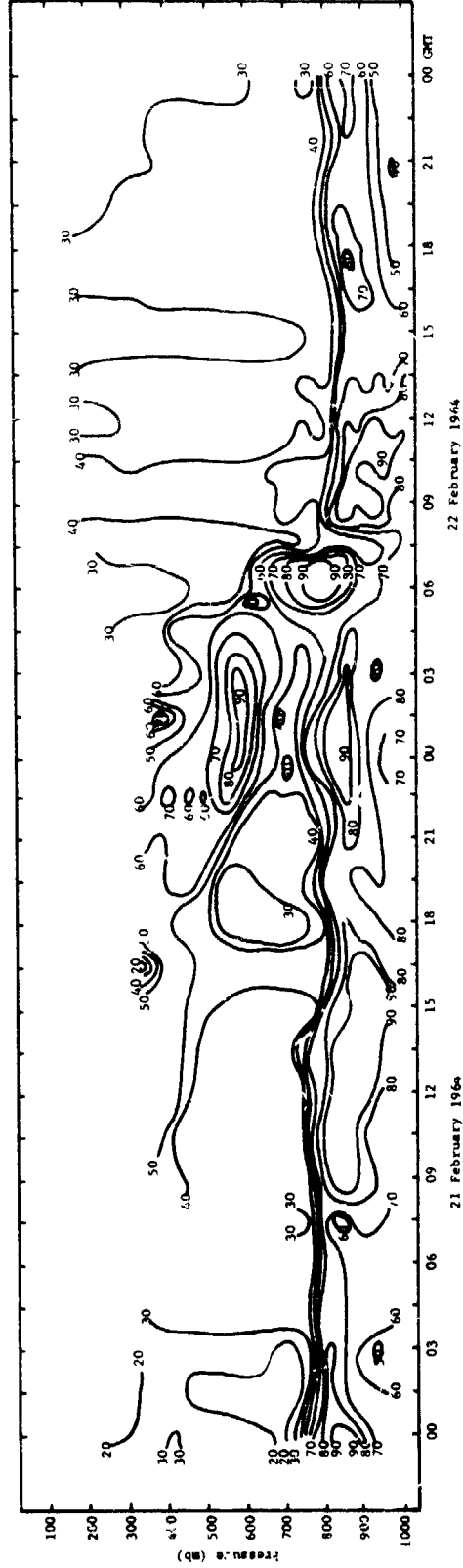
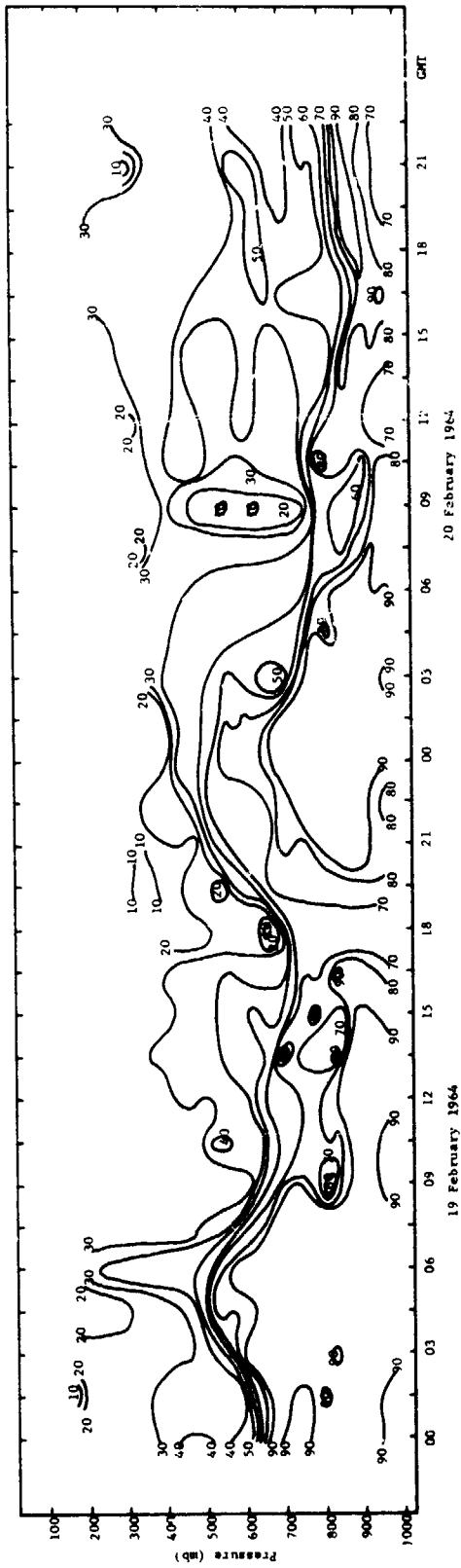


NOTE: Interval not constant.

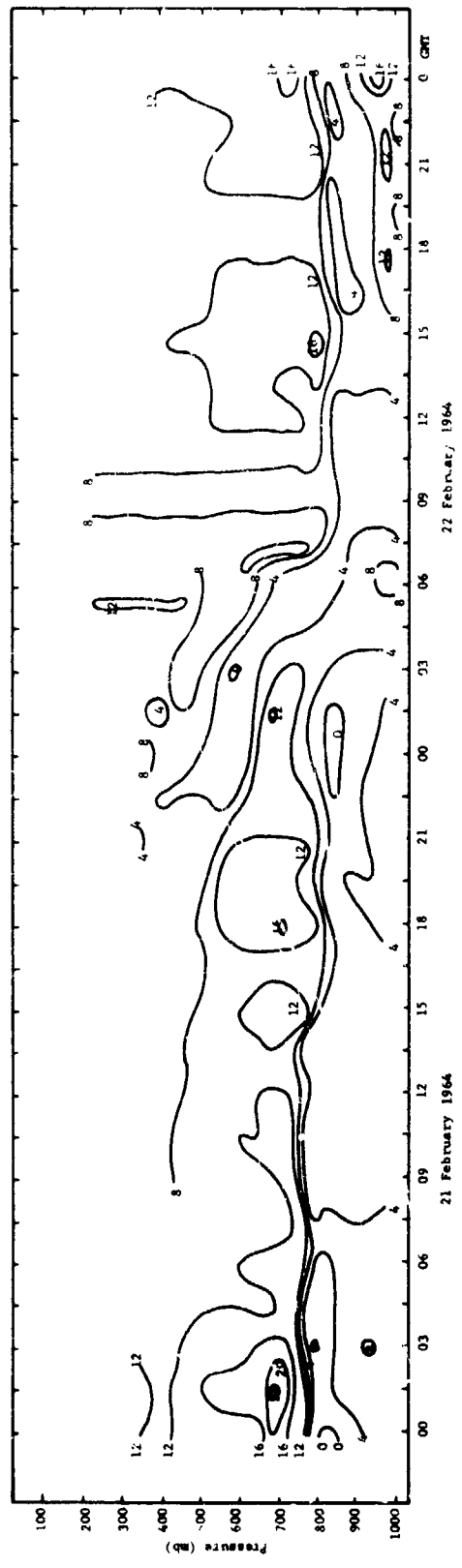
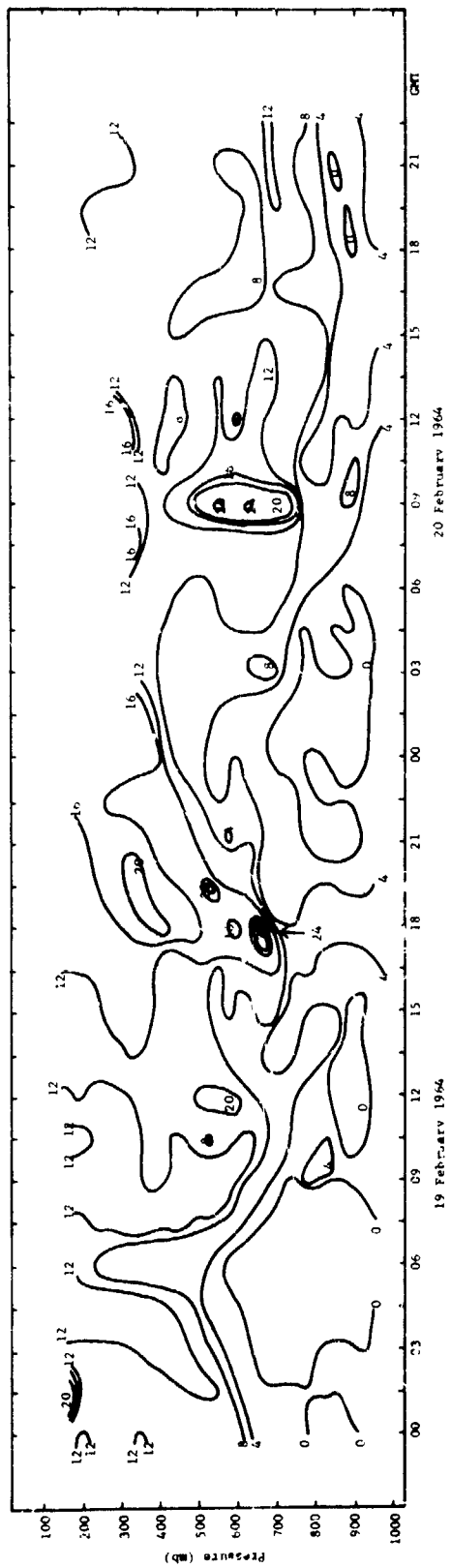


NOTE: Interval not constant.

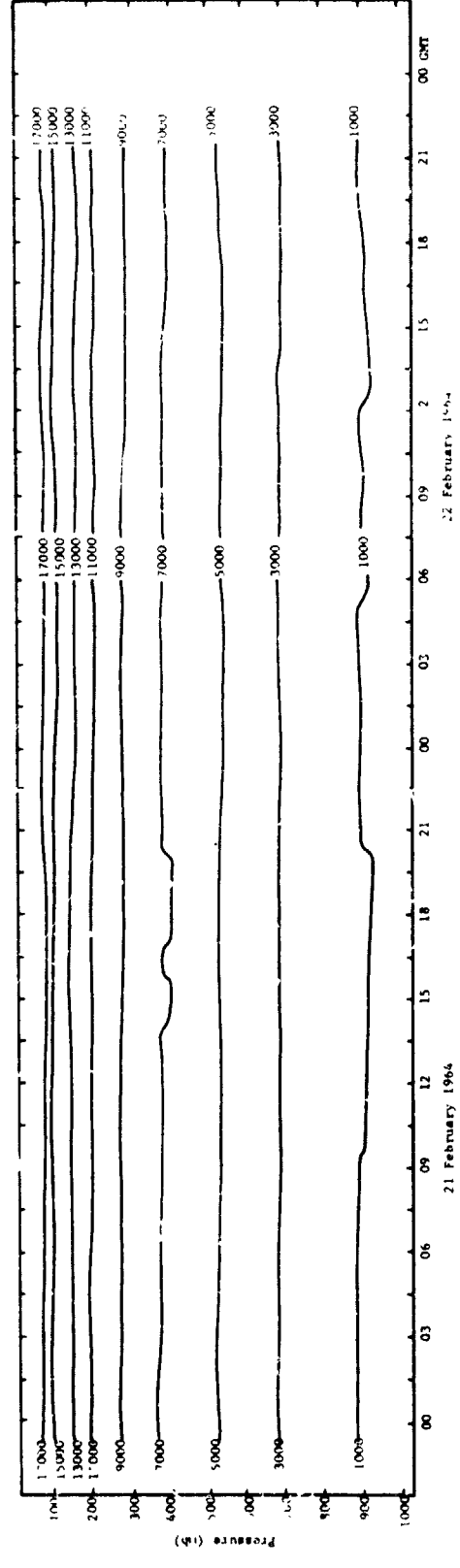
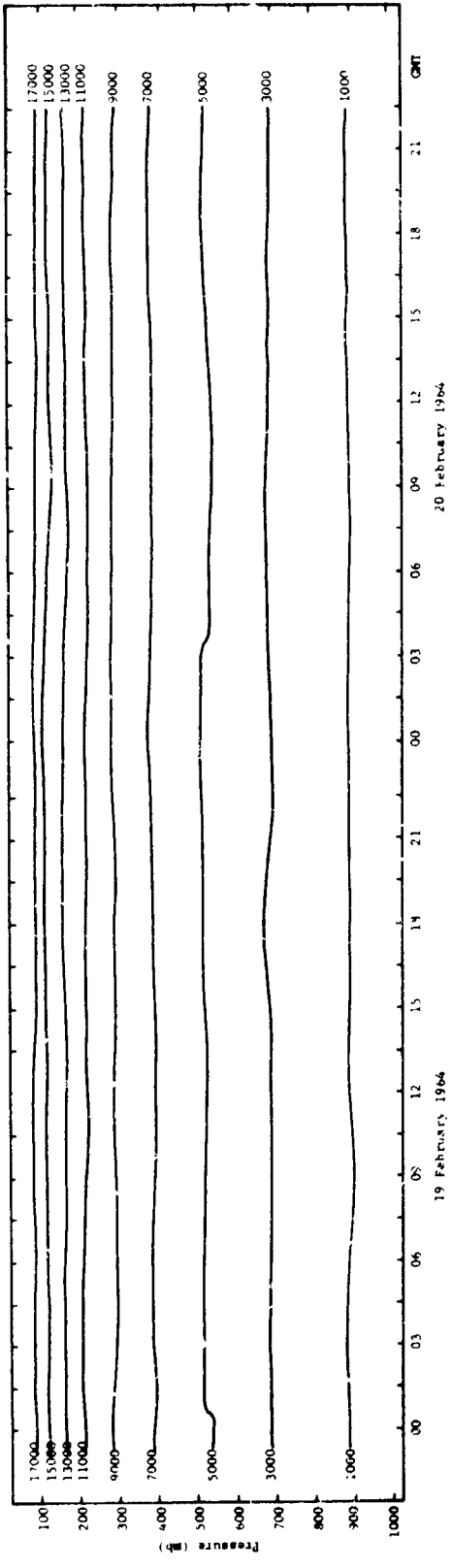
Wind Speed (m/sec) for Marshall Space Flight Center, Station Number 11001



Relative Humidity (%) for Marshall Space Flight Center, Station Number 11001



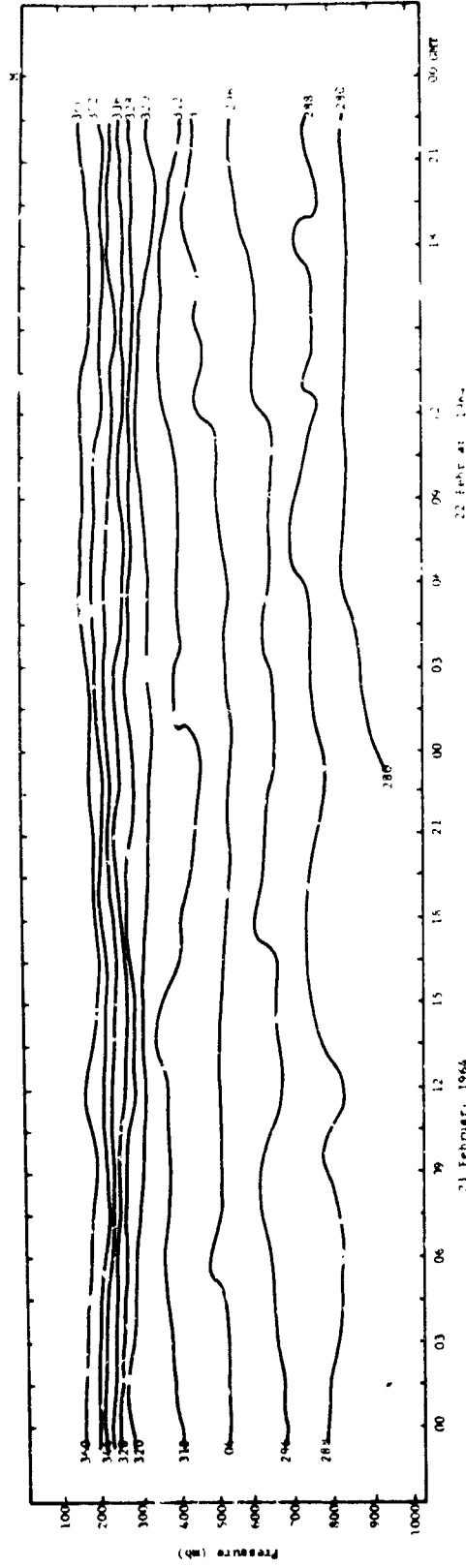
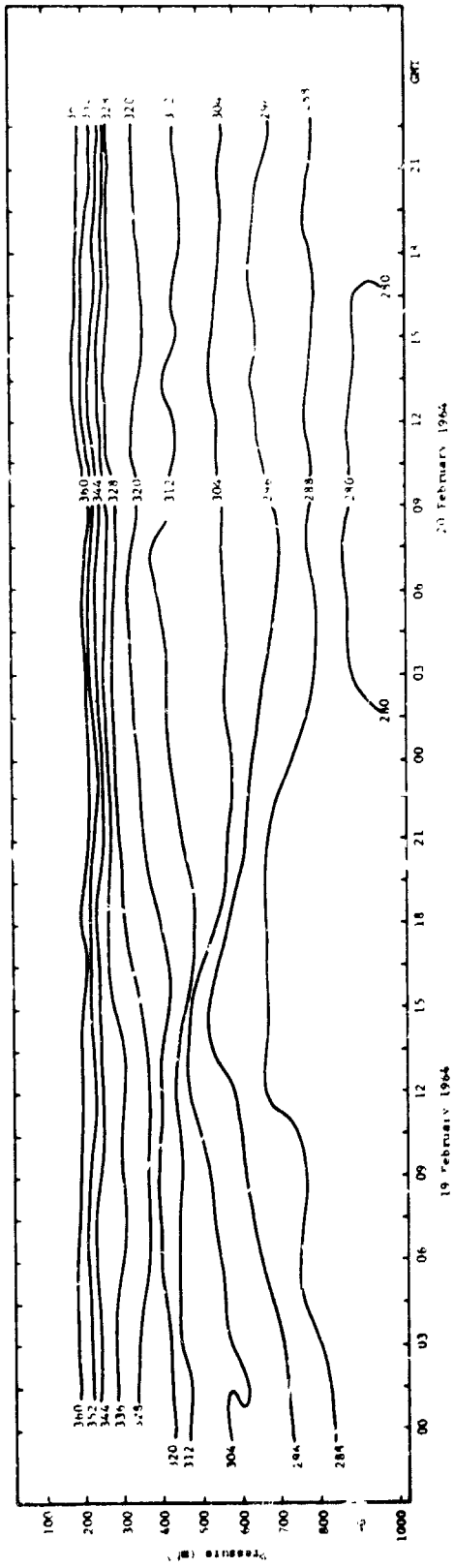
Dewpoint Depression ($^{\circ}$ C) for Marshall Space Flight Center, Station Number 11001



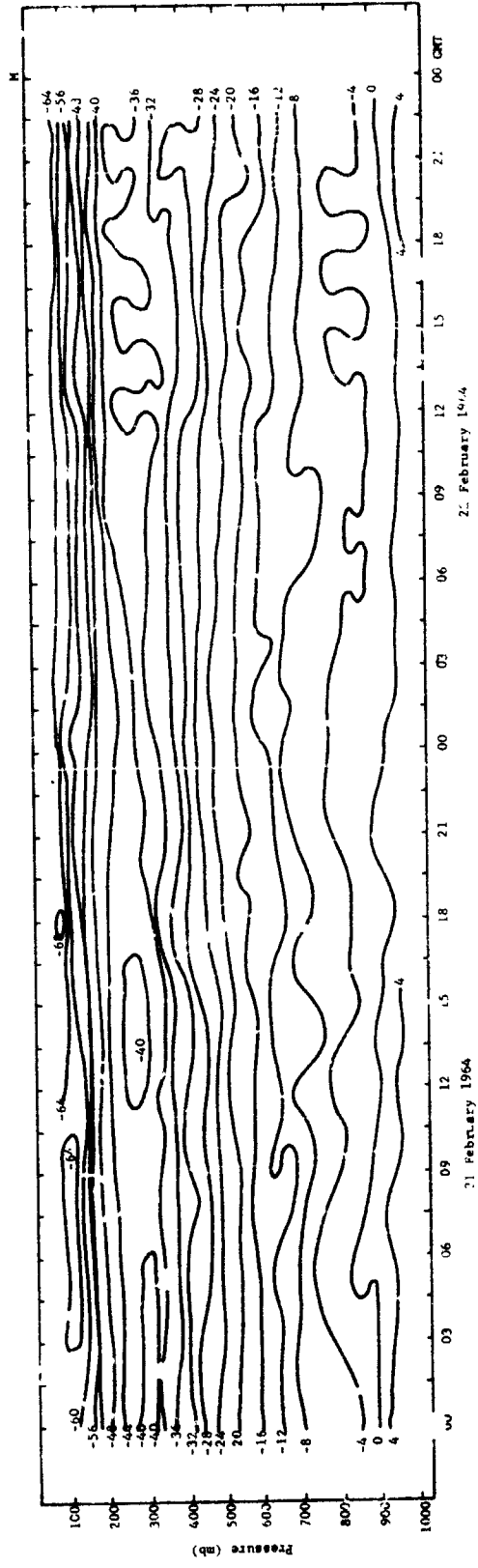
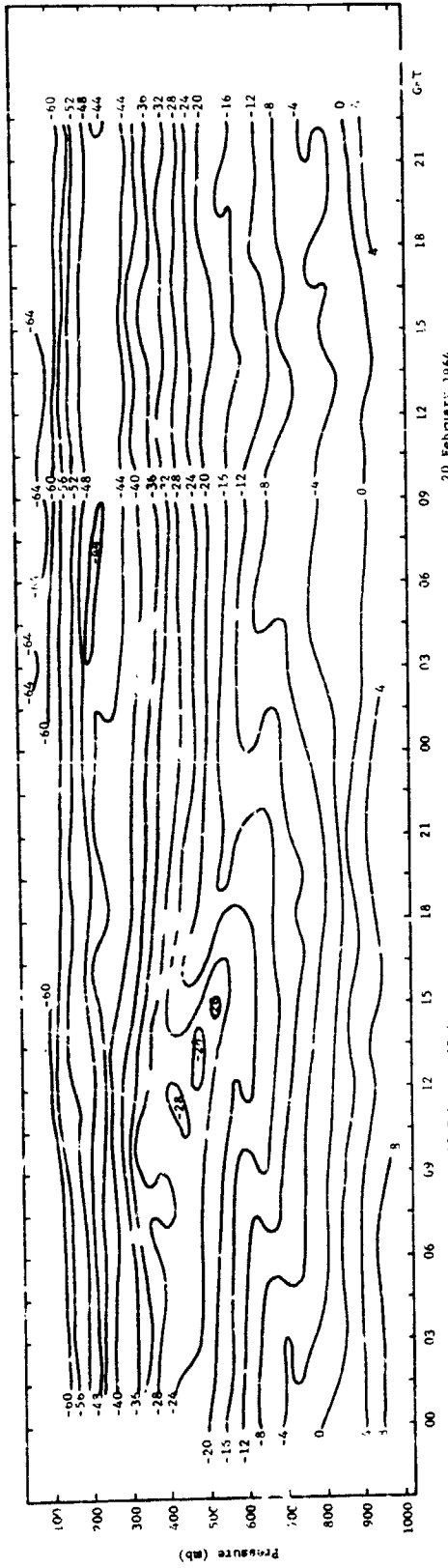
Height (gpm) for Marshall Space Flight Center, Station Number 11001

Station Number 22001

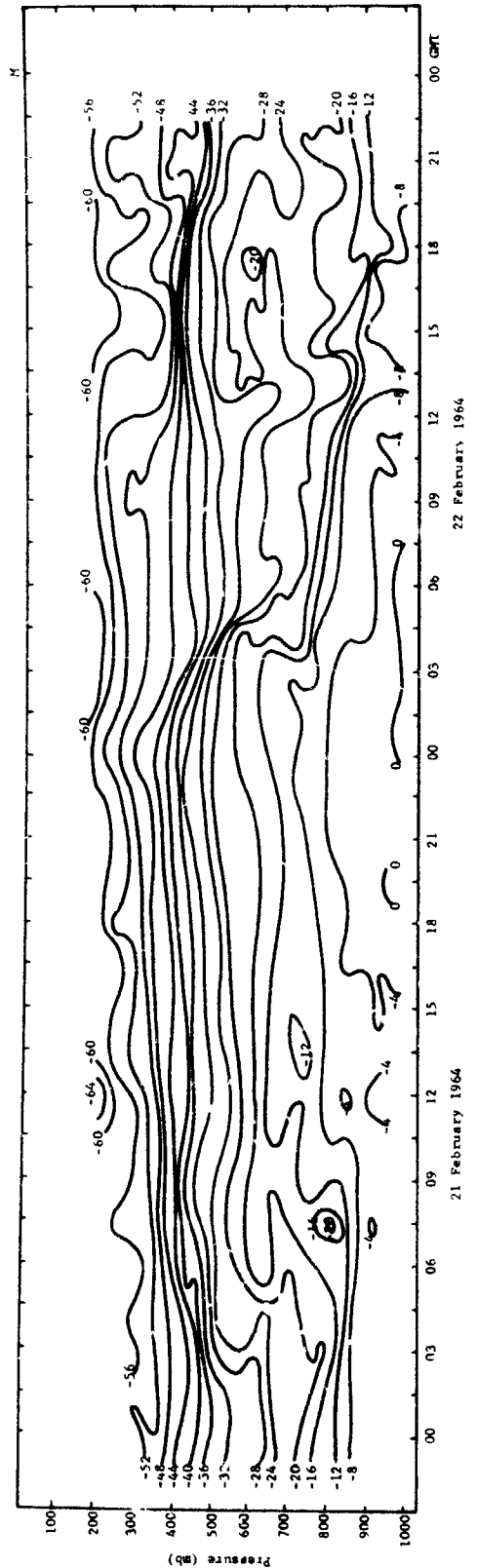
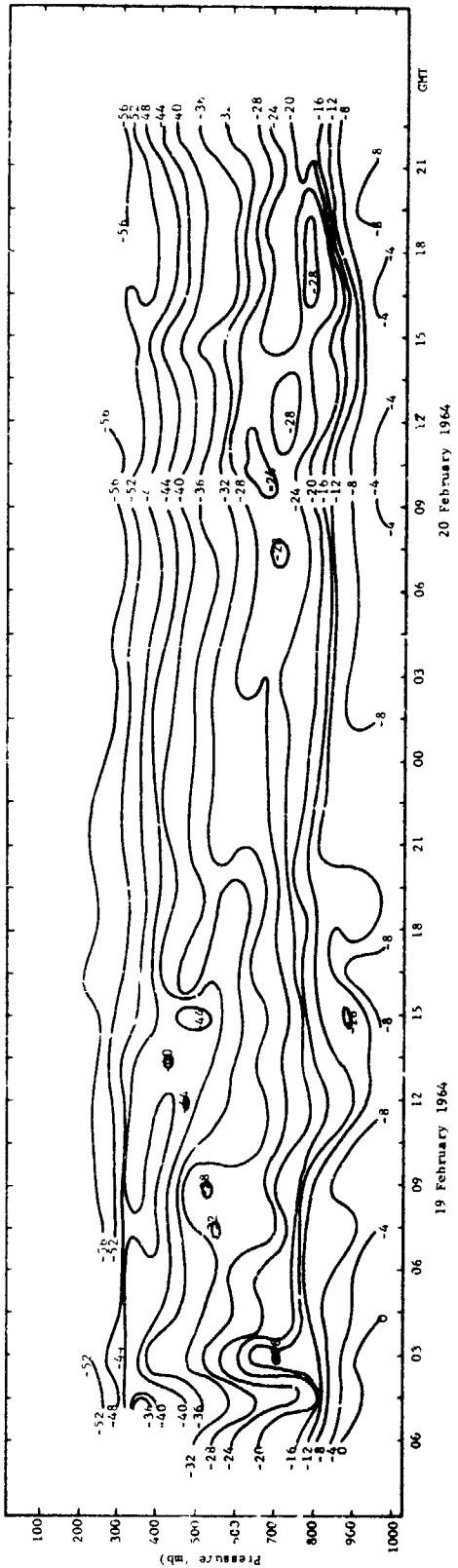
Mississippi Test Facility, Mississippi



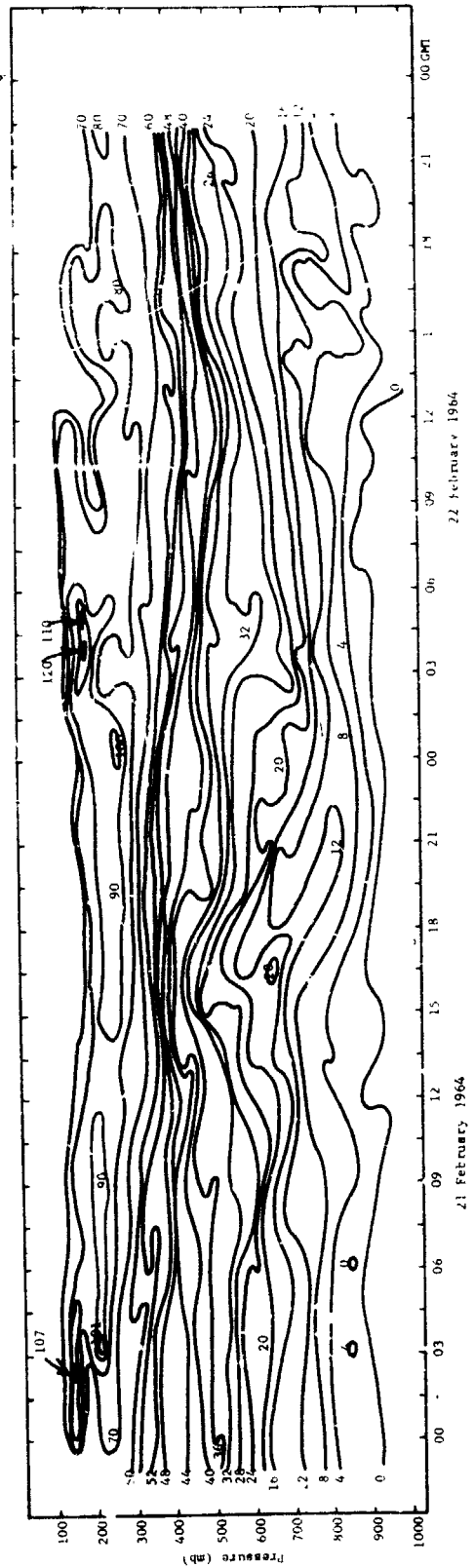
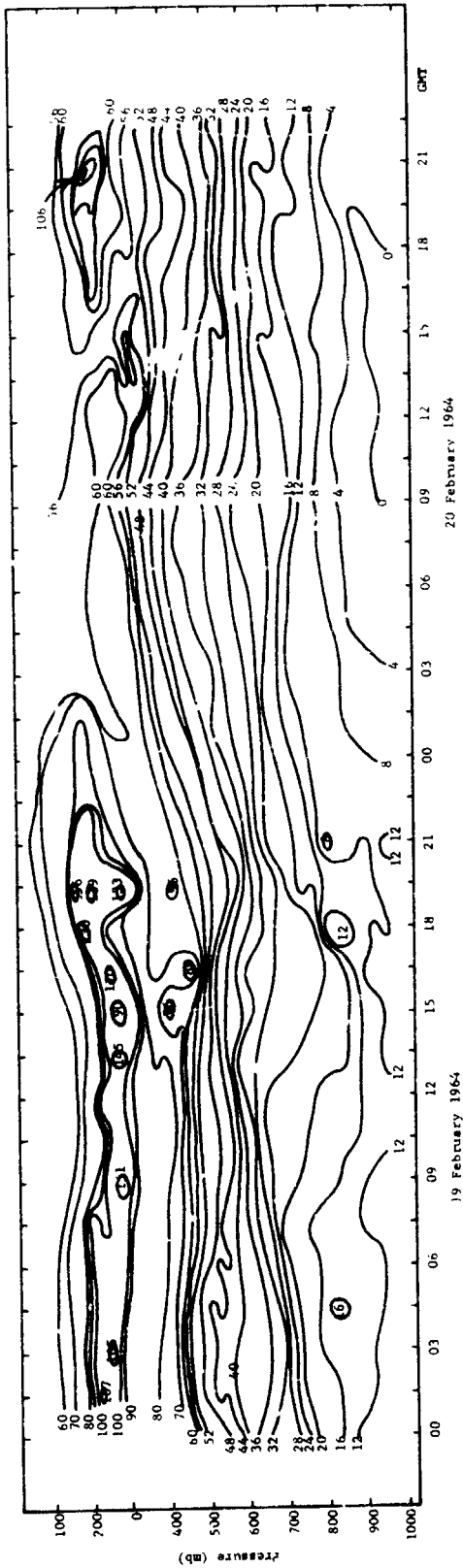
Potential Temperature (°K) for Mississippi Test Facility, Station Number Z2001



Temperature (°C) for Mississippi Test Facility, Station Number 22001

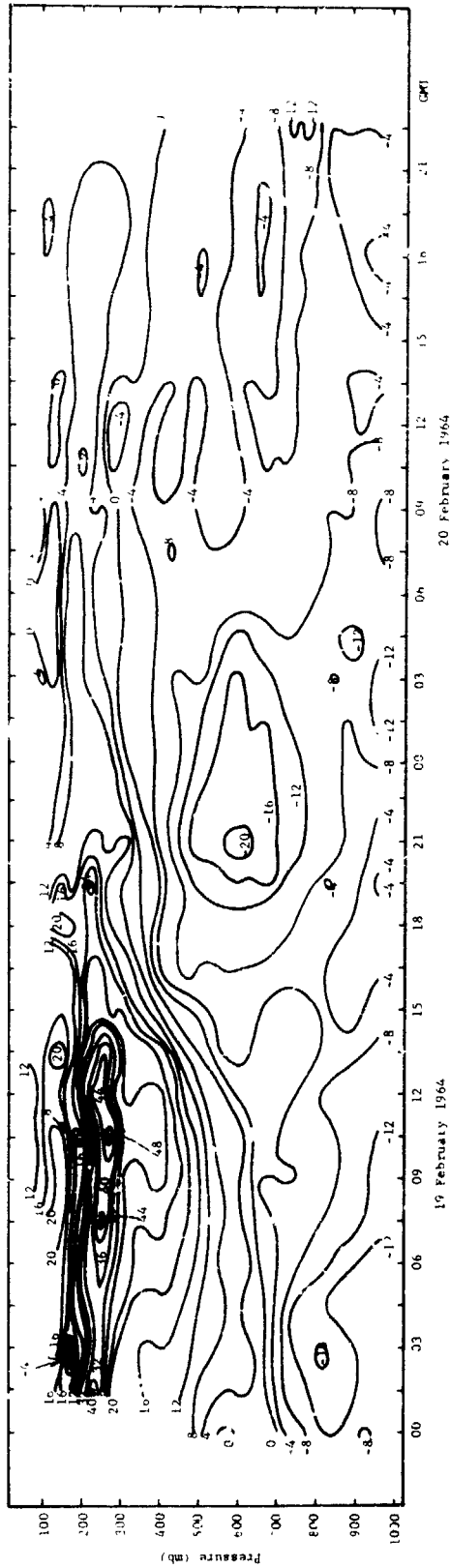


Dewpoint Temperature (°C) for Mississippi Test Facility, Station Number 22001

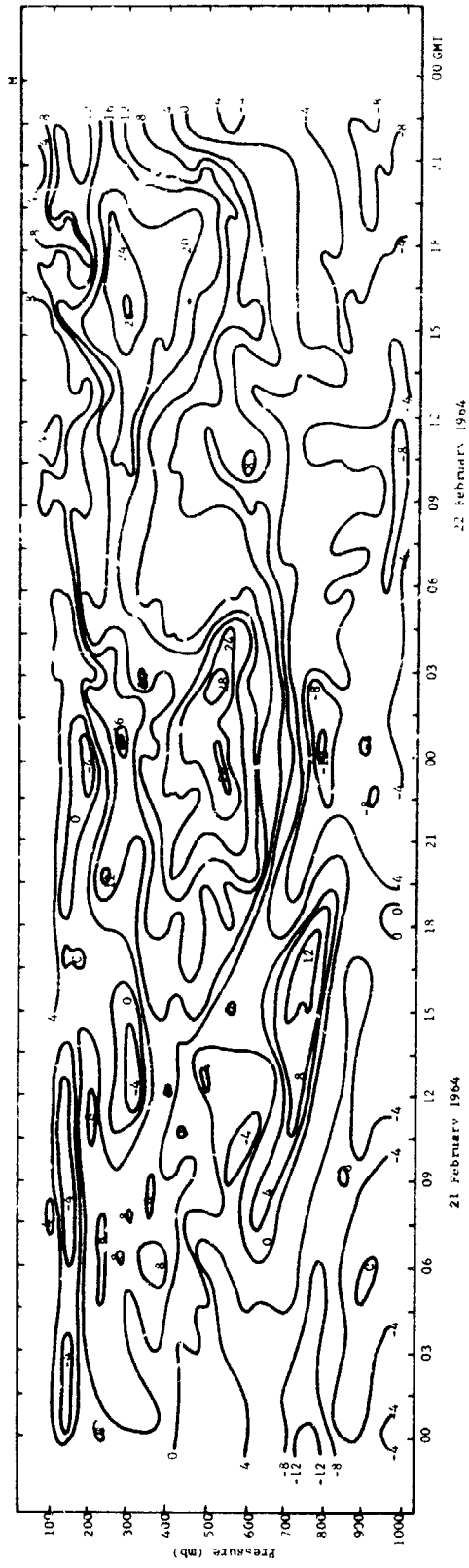


NO. 27 Interval not constant

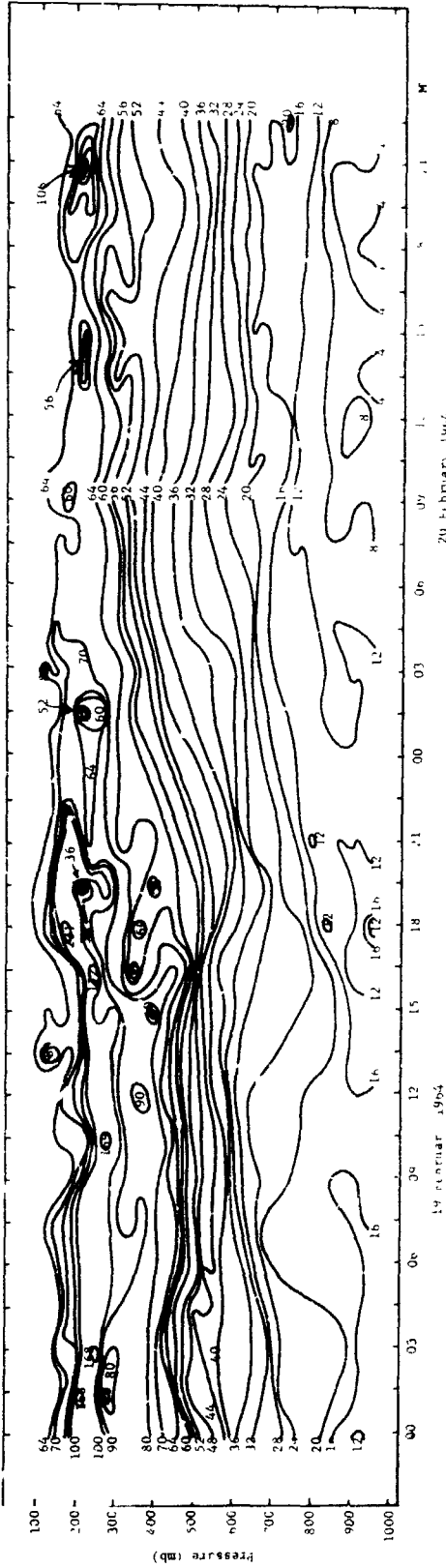
Zonal Wind Component (m/sec) for Mississippi Test Facility, Station Number 22001



NOTE: Interval not constant

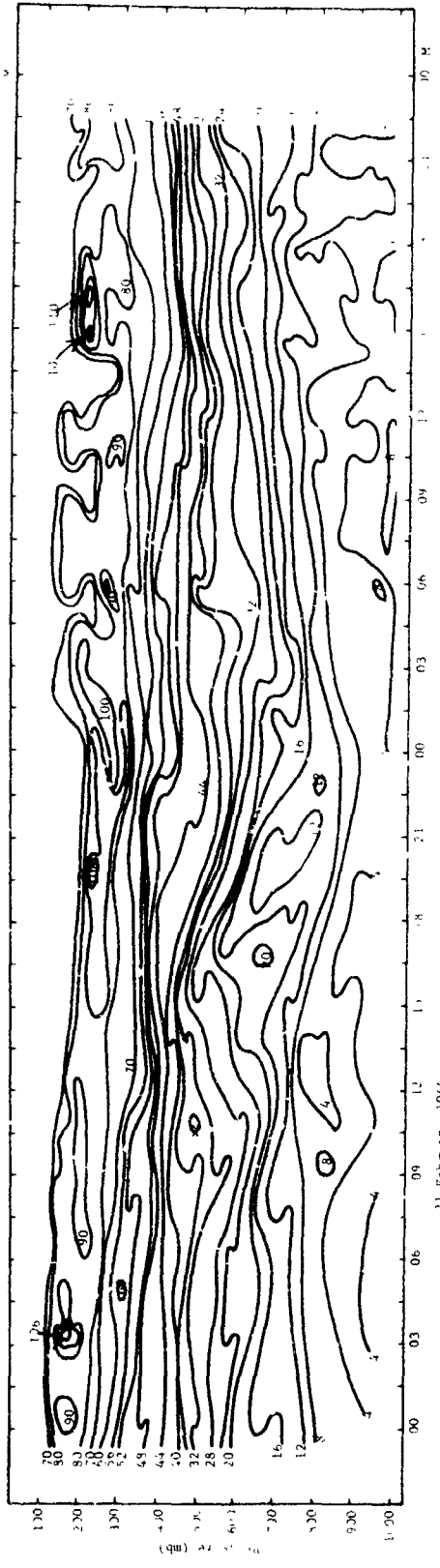


Meridional Wind Component (m/sec) for Mississippi Test Facility, Station Number 22001



NOTE: Interval not constant

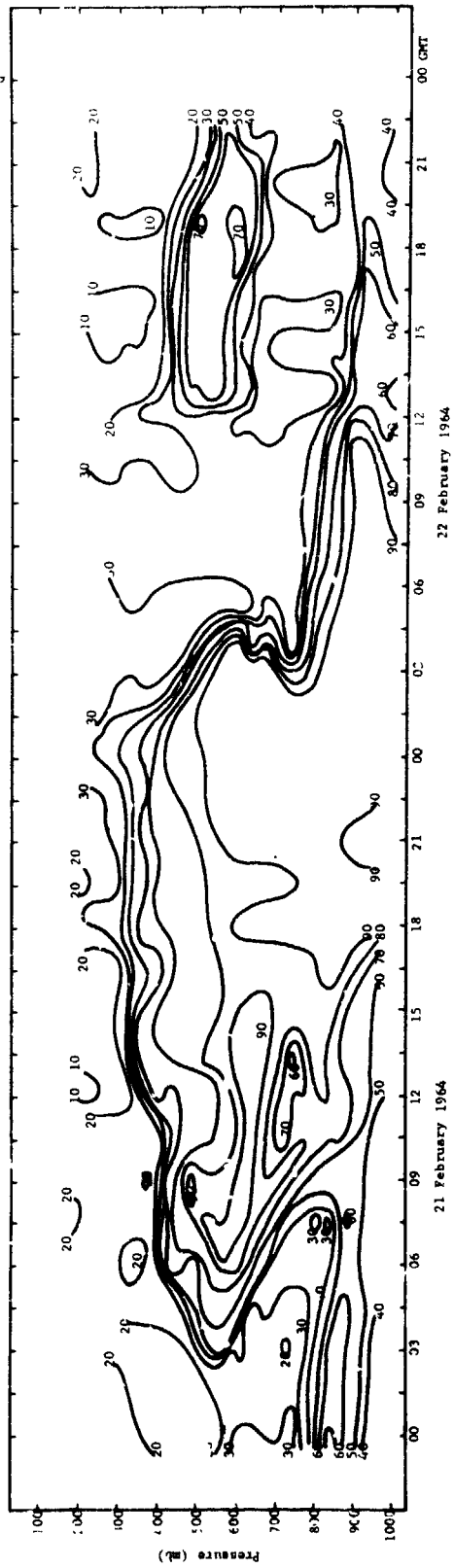
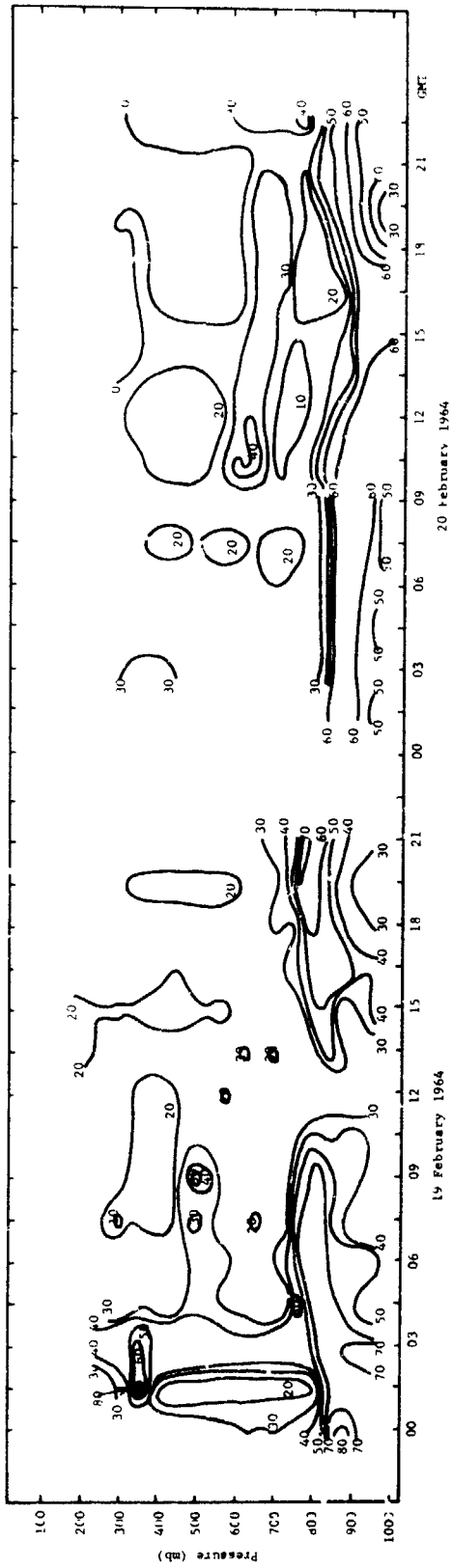
19 February 1964



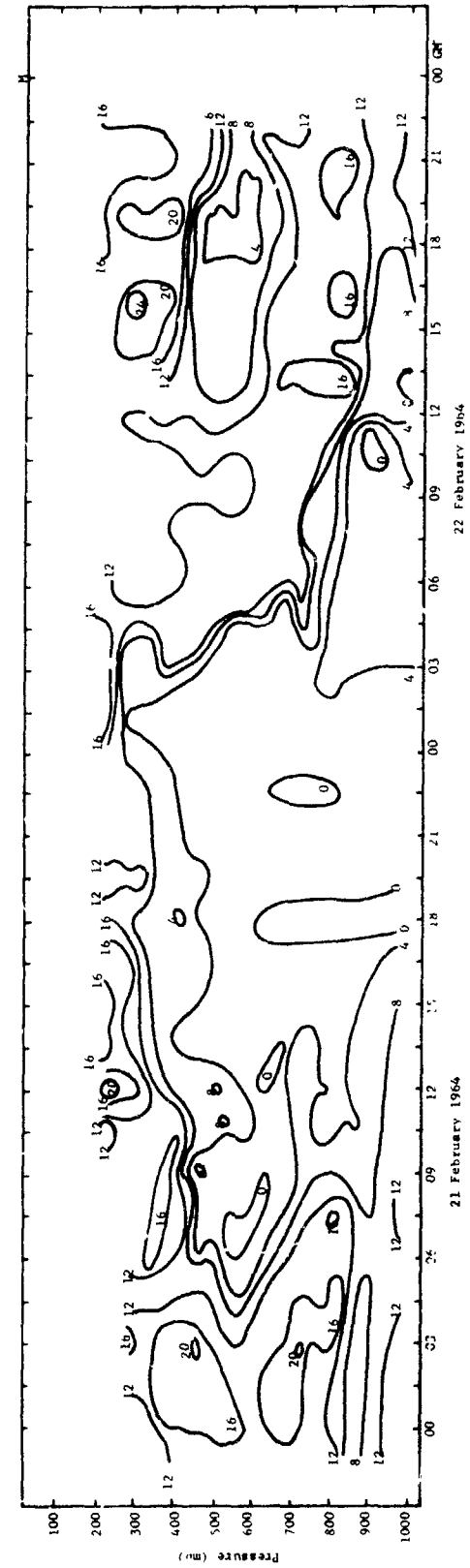
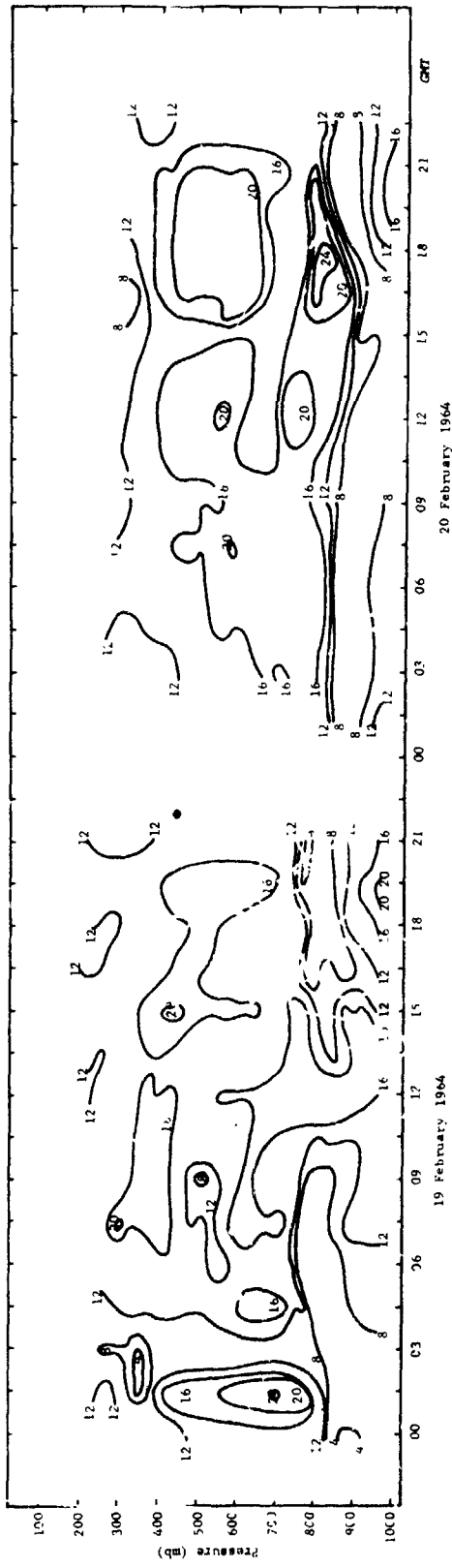
NOTE: Interval not constant

21 February 1964

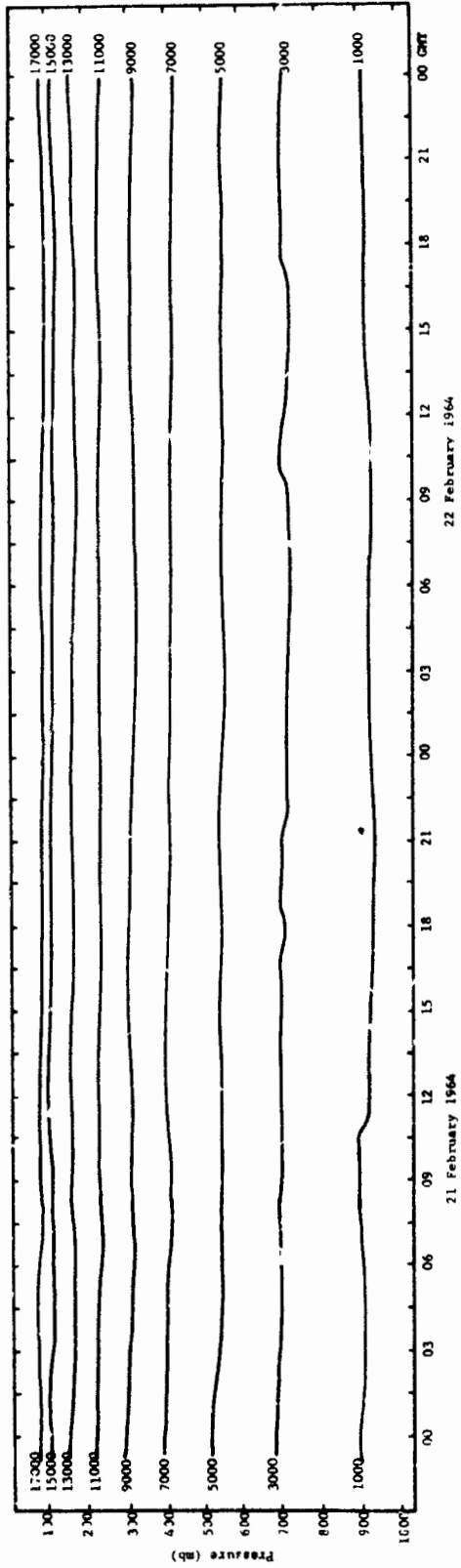
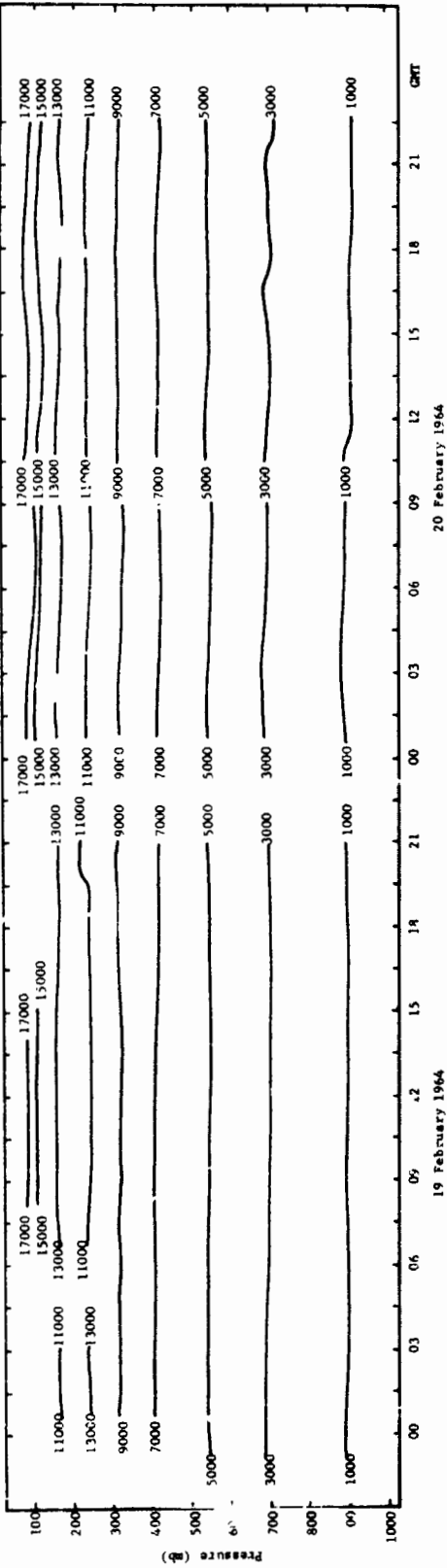
Wind Speed (m/sec) for Mississippi Test Facility, Station Number 22001



Relative Humidity (%) for Mississippi Test Facility, Station Number 22001



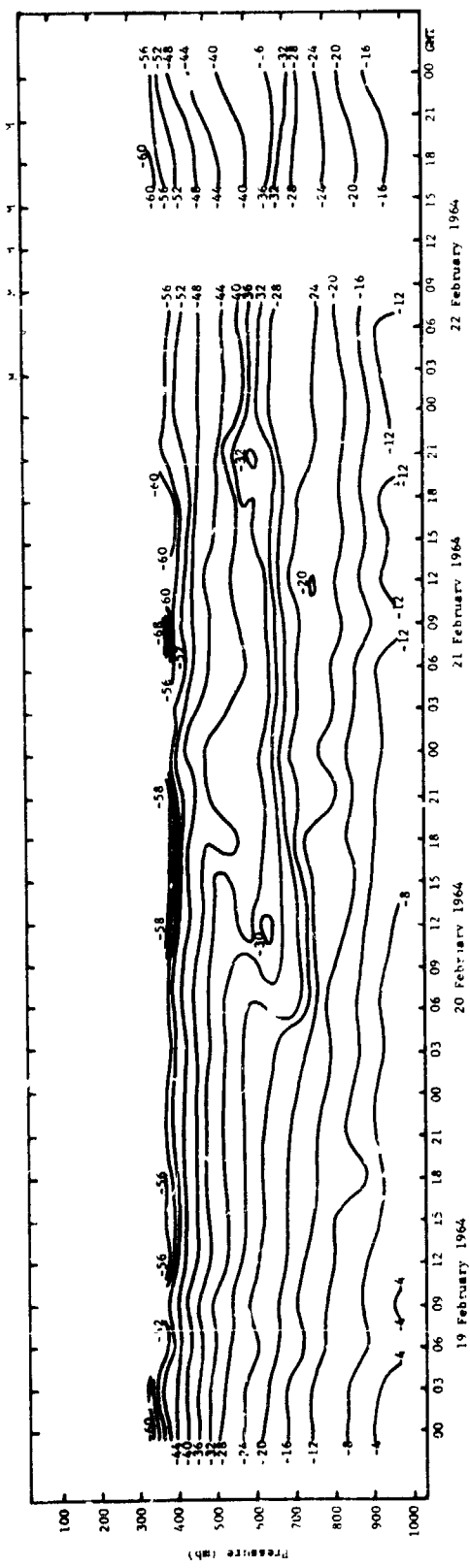
Dewpoint Depression ($^{\circ}$ C) for Mississippi Test Facility, Station Number 22001



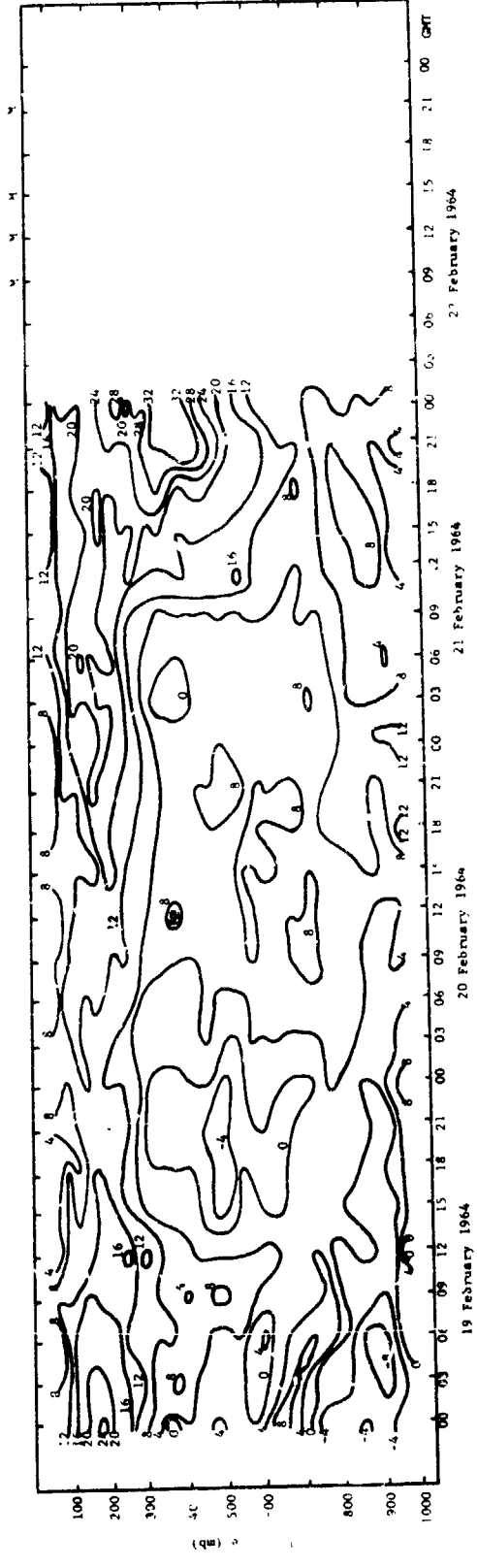
Height (gpm) for Mississippi Test Facility, Station Number 22001

Station Number 33001

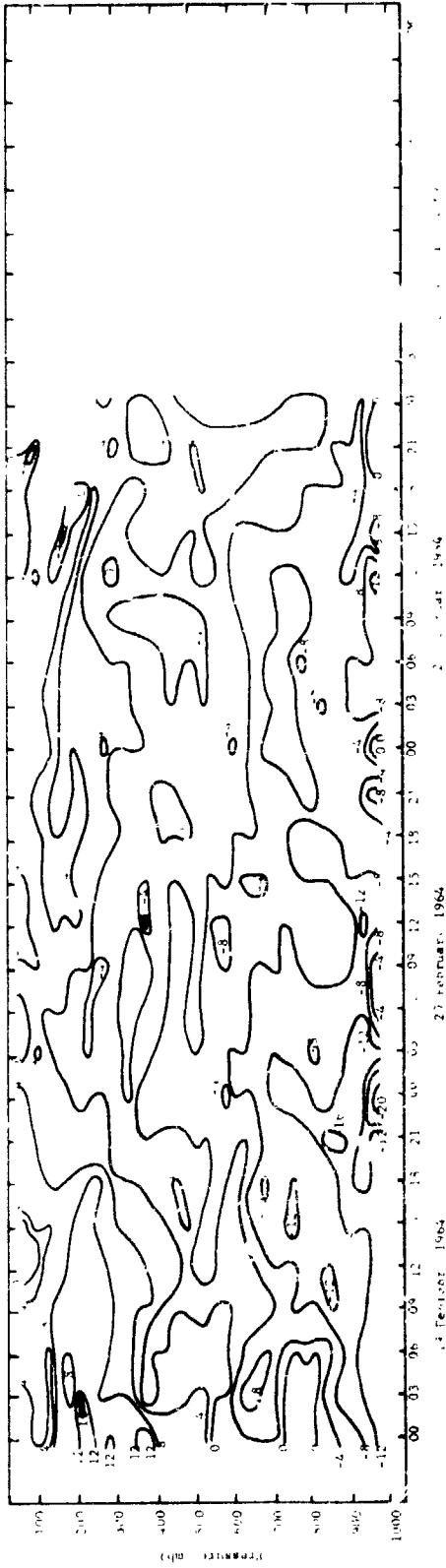
Dayton, Ohio



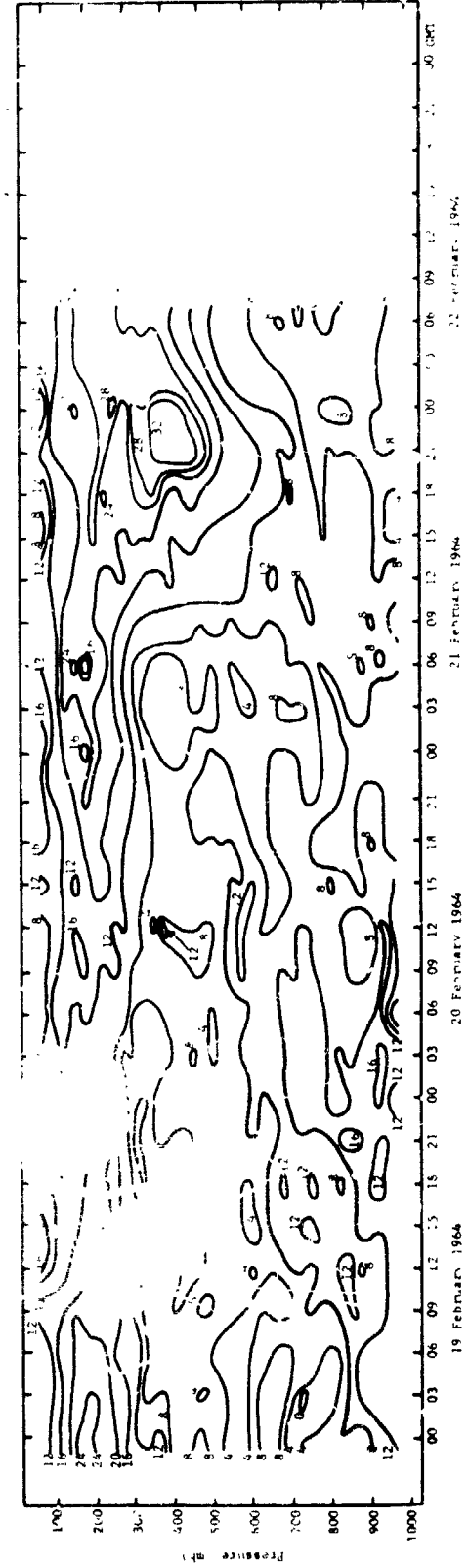
Dewpoint Temperature ($^{\circ}$ C) for Dayton, Ohio, Station Number 33001



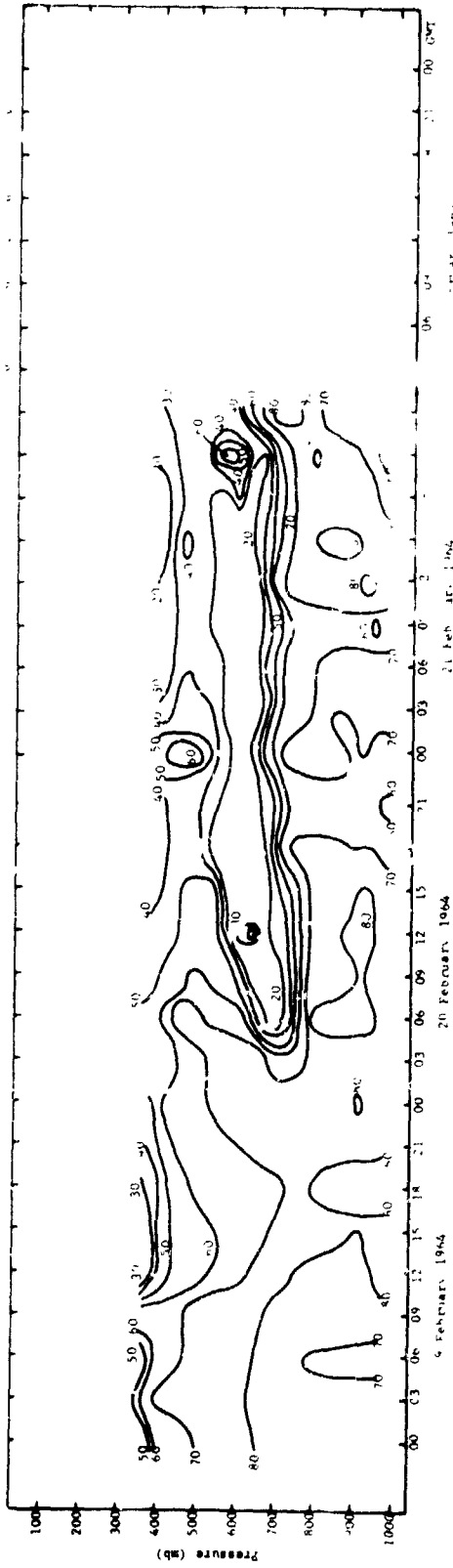
Zonal Wind Component (mi/sec) for Dayton, Ohio, Station Number 33001



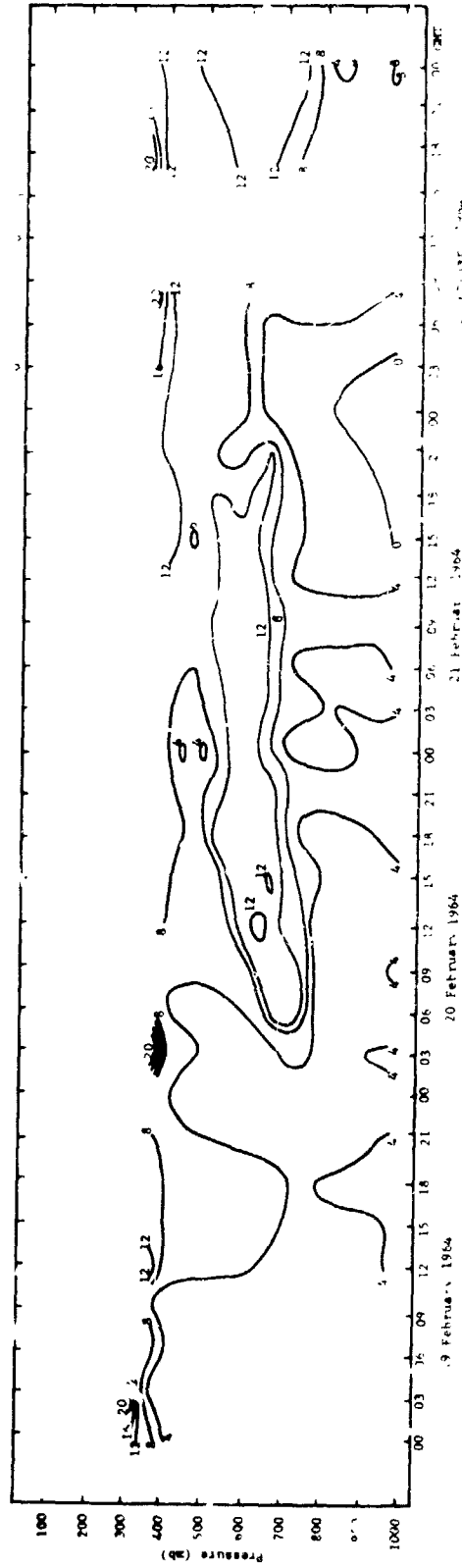
Meridional Wind Component (m/sec) for Dayton, Ohio, Station Number 33001



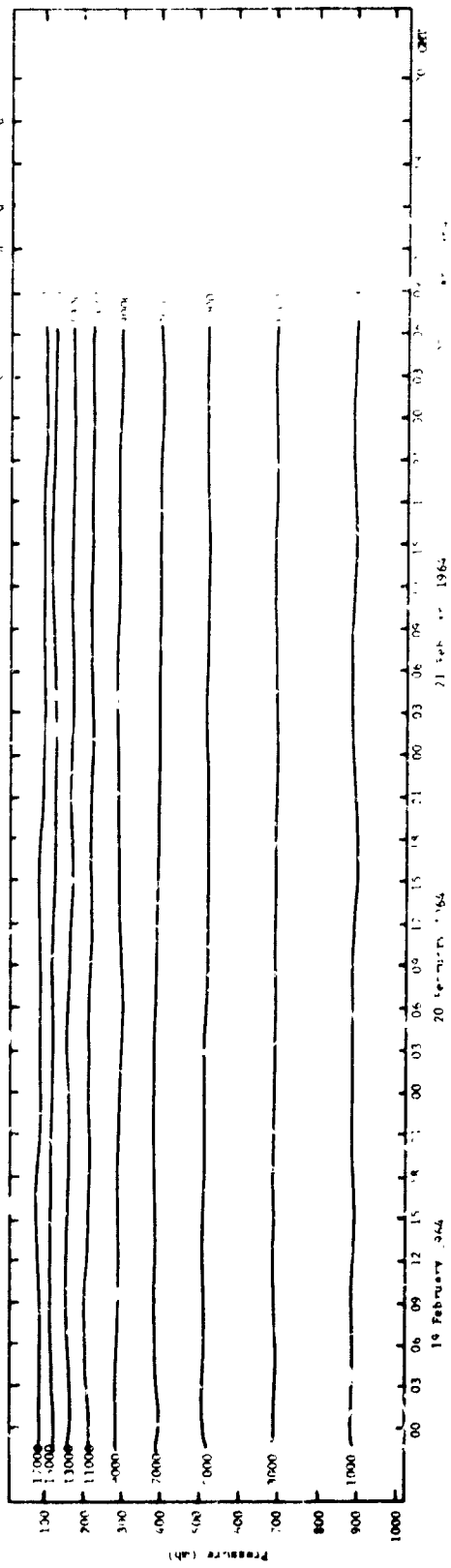
Wind Speed (m/sec) for Dayton, Ohio, Station Number 33001



Relative Humidity (%) for Dayton, Ohio, Station Number 33061



Dewpoint Depression (°C) for Dayton, Ohio, Station Number 33061

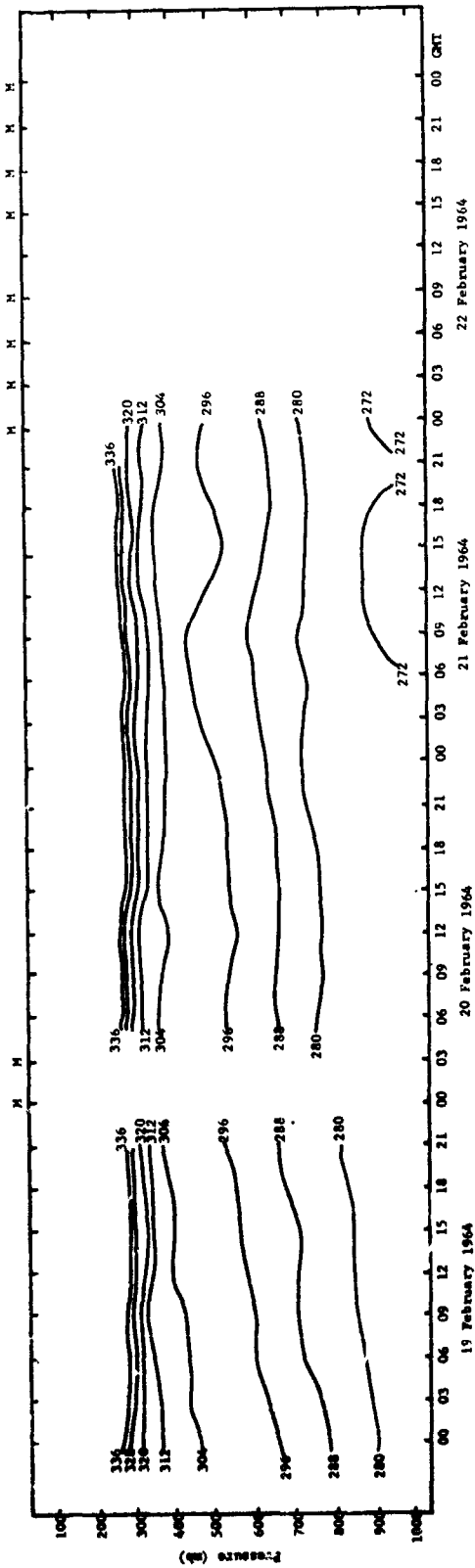


Height (gpm) for Dayton, Ohio, Station Number 33001

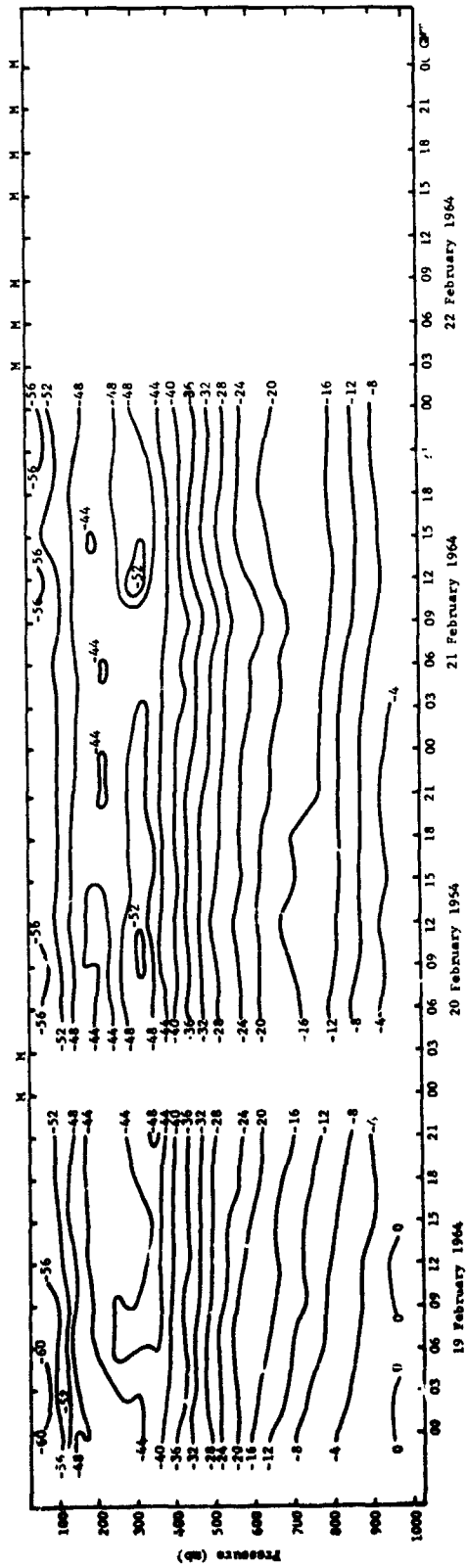
Station Number 33002

Huntington, West Virginia

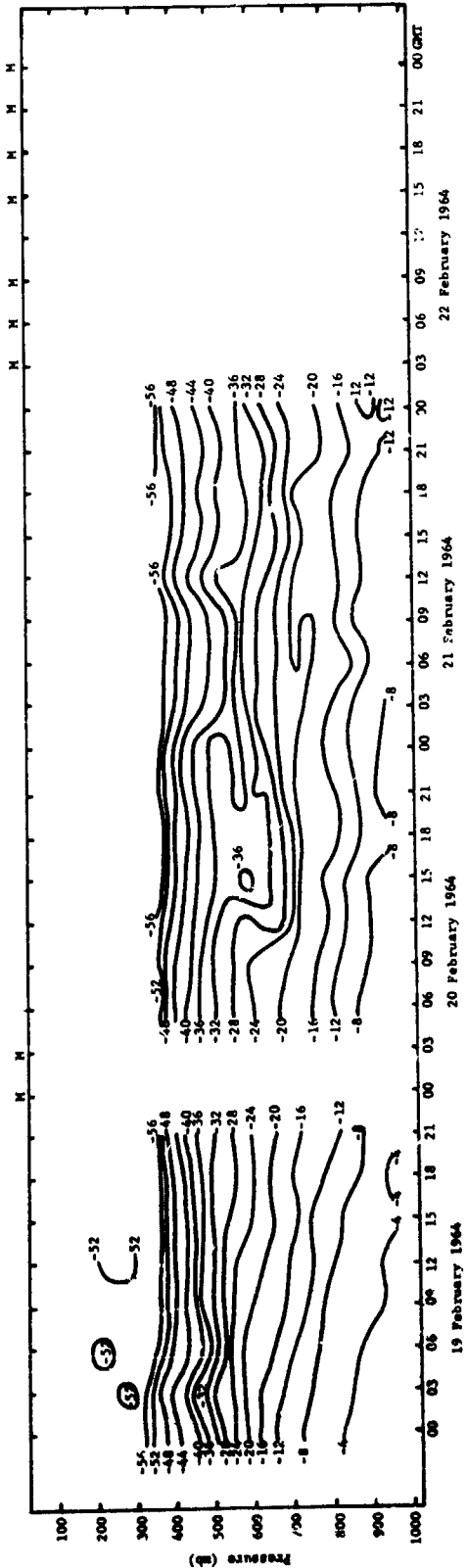
C-2



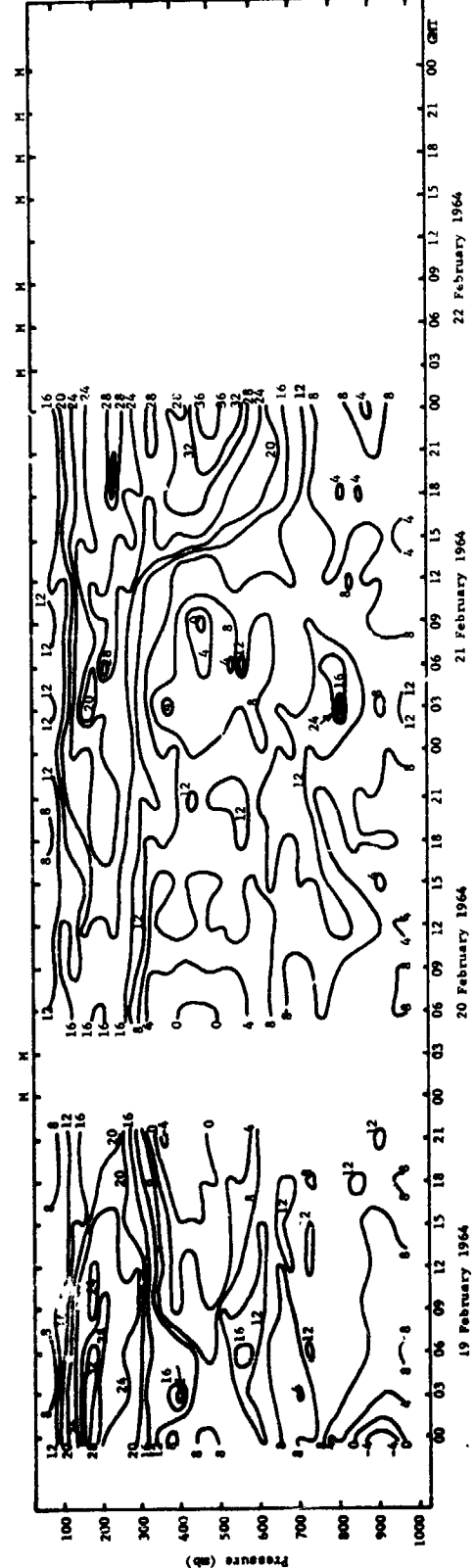
Potential Temperature (°K) for Huntington, West Virginia, Station Number 33002



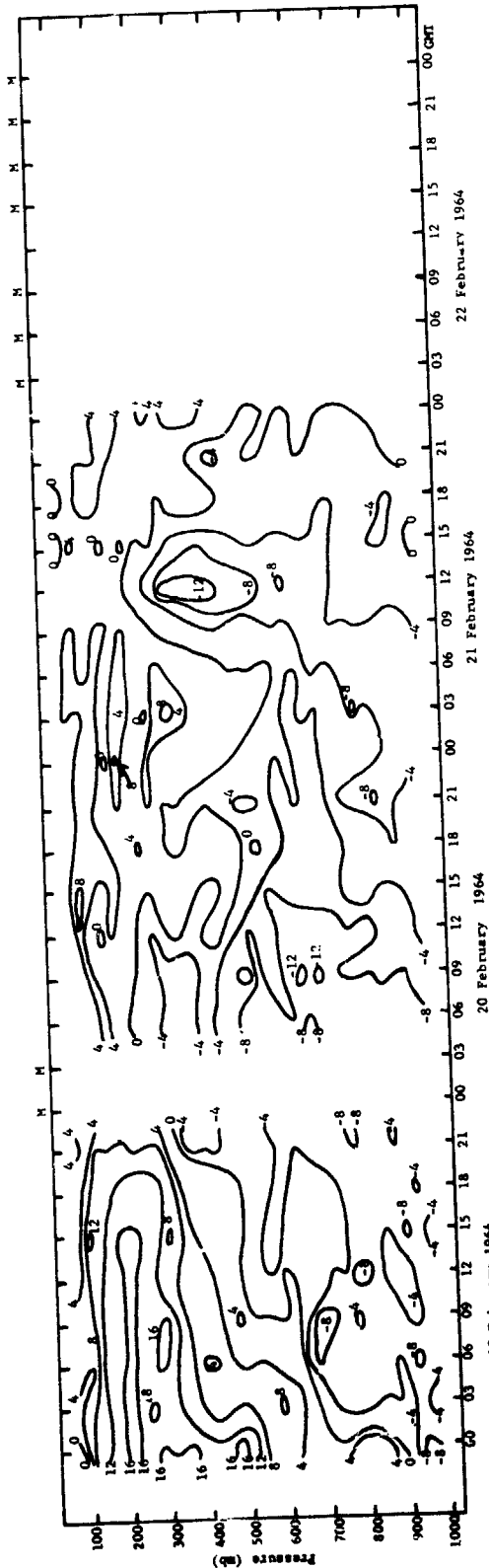
Temperature (°C) for Huntington, West Virginia, Station Number 33002



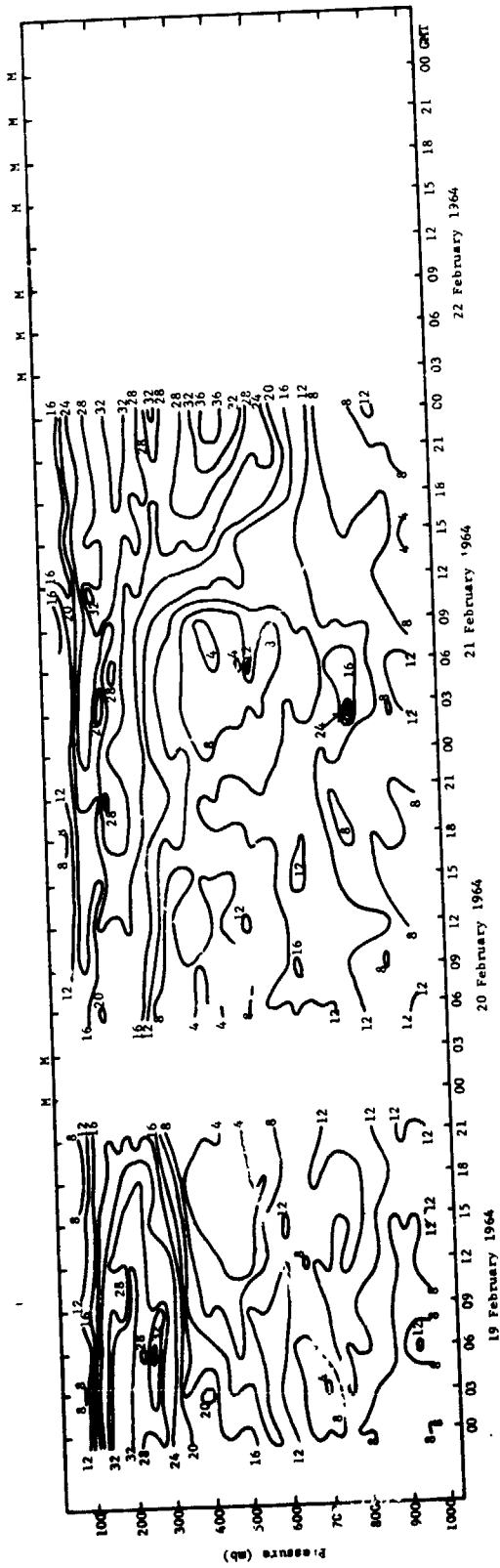
Dewpoint Temperature (°C) for Huntington, West Virginia, Station Number 33002



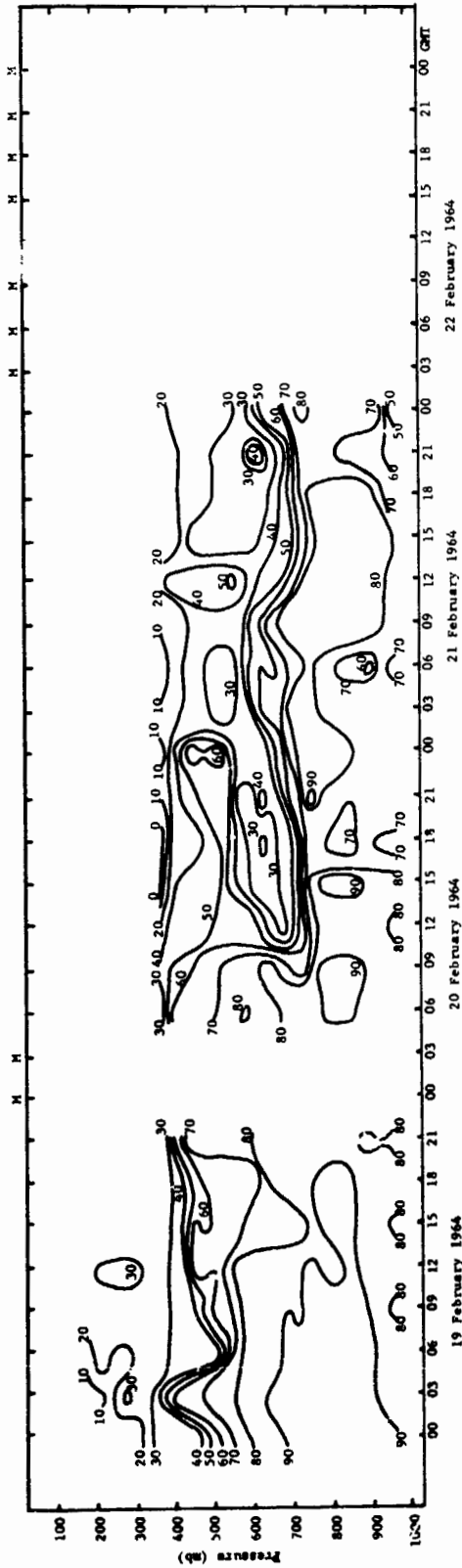
Zonal Wind Component (m/sec) for Huntington, West Virginia, Station Number 33002



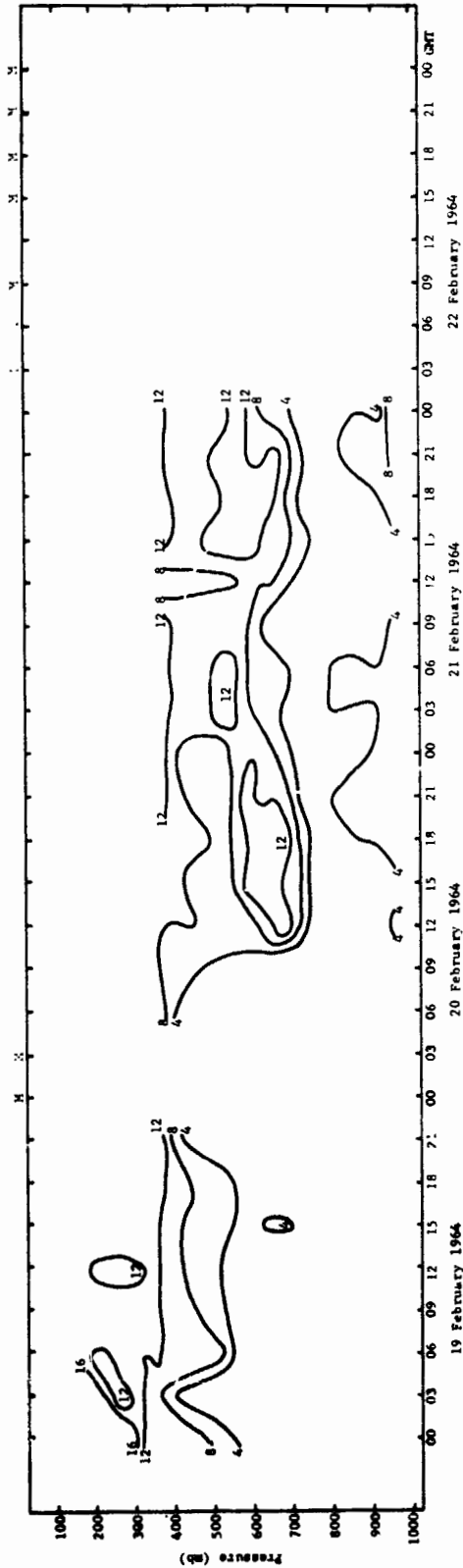
Meridional Wind Component (m/sec) for Huntington, West Virginia, Station Number 33002

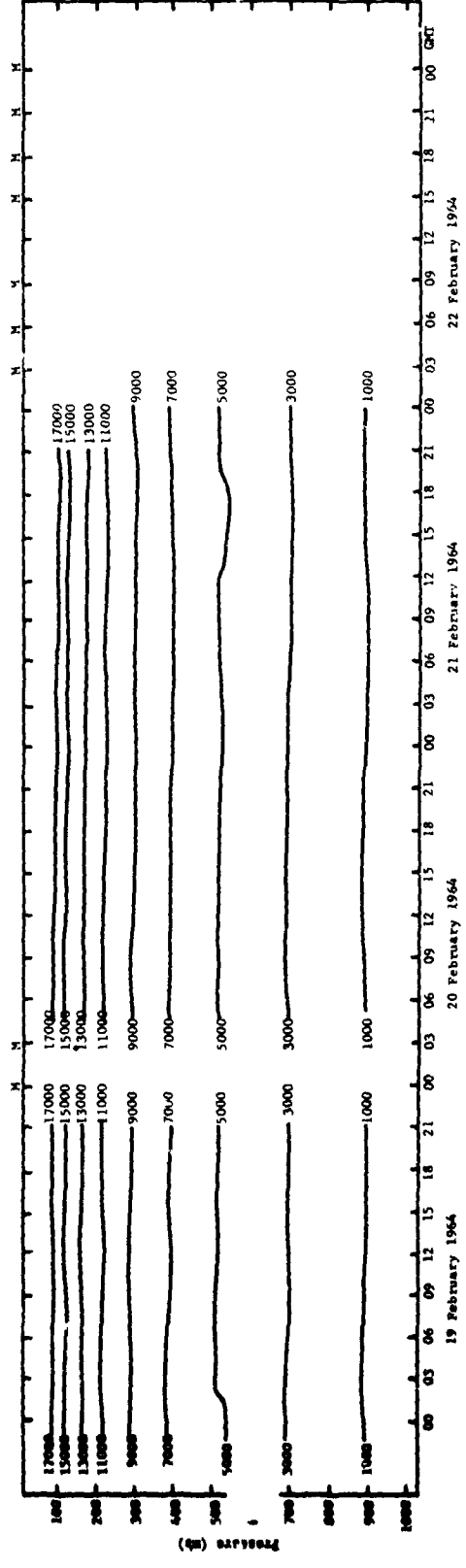


Wind Speed (m/sec) for Huntington, West Virginia, Station Number 33002



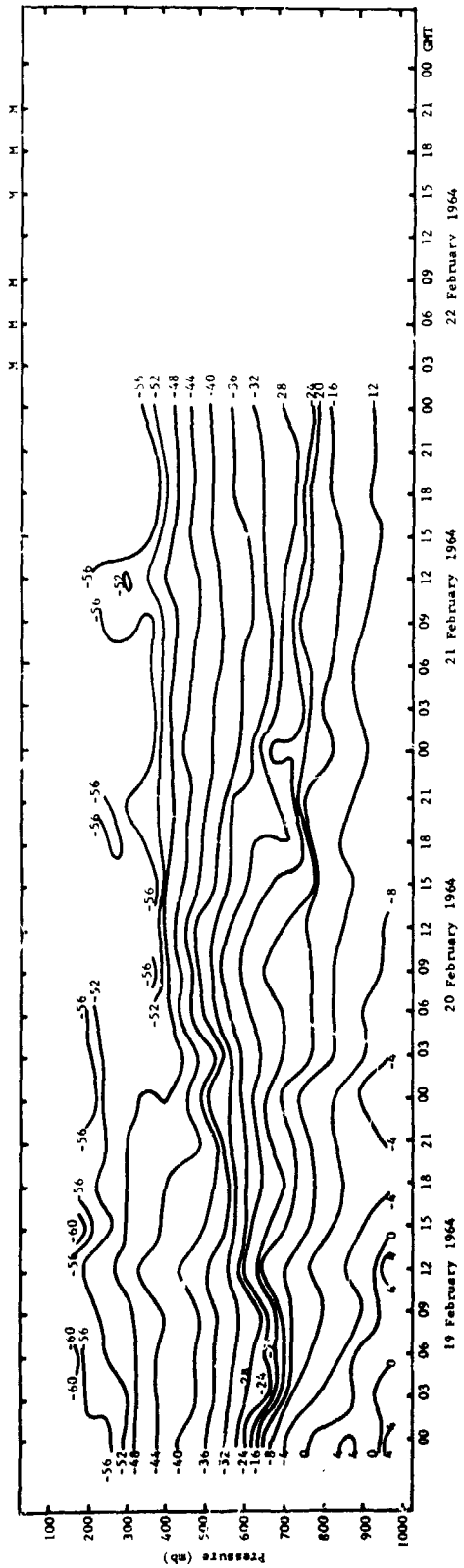
Relative Humidity (%) for Huntington, West Virginia, Station Number 33002



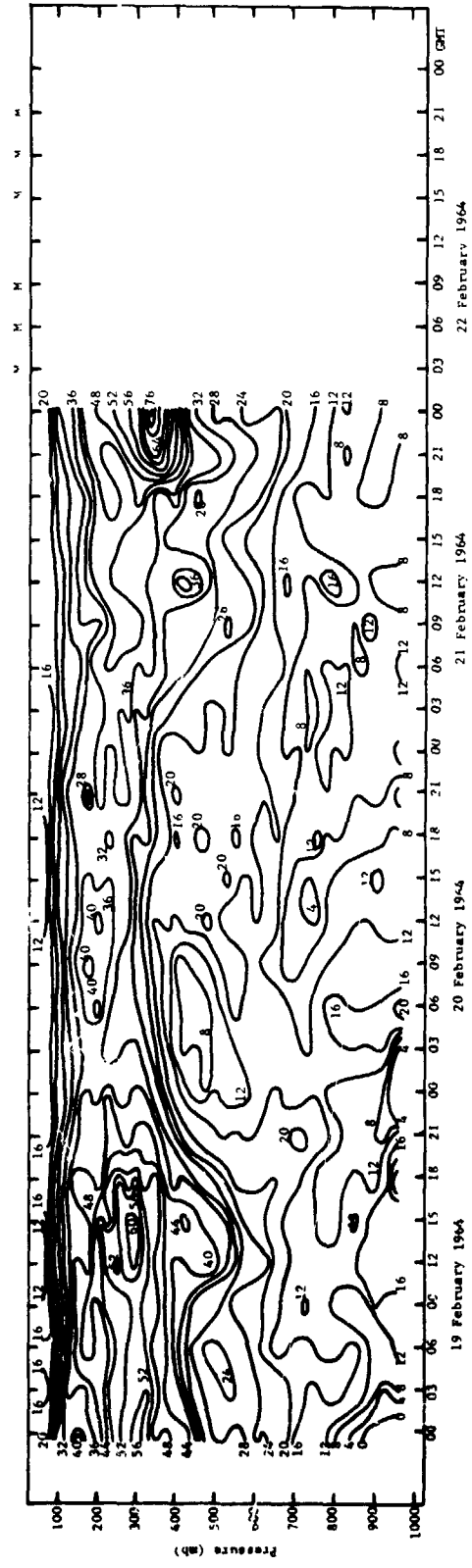


Height (gpm) for Huntington, West Virginia, Station Number 33002

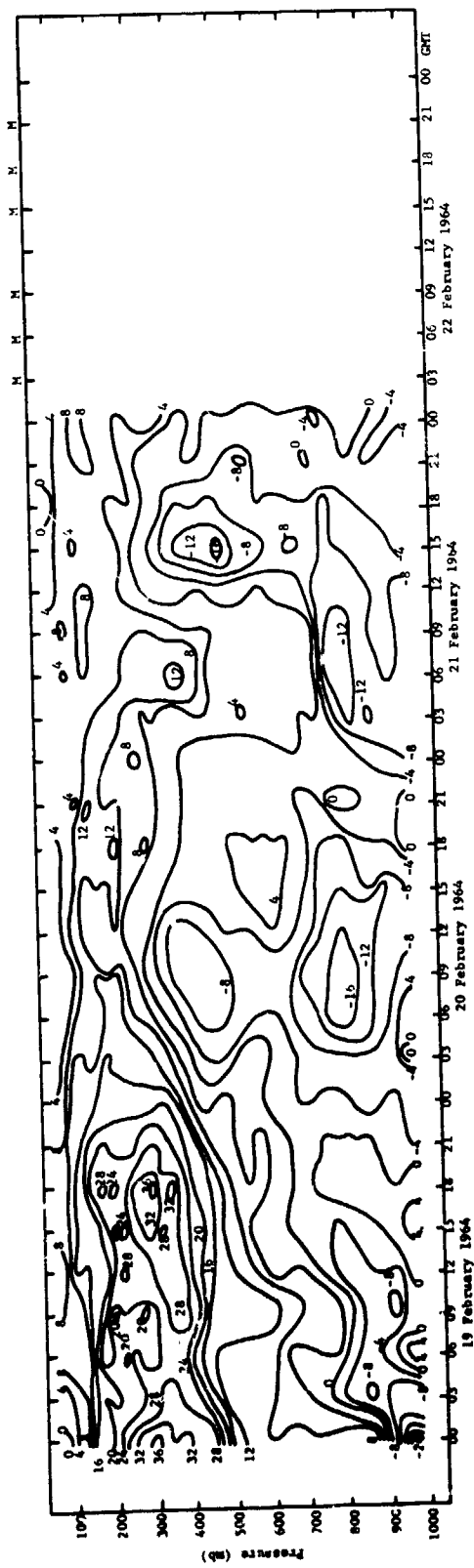
Station Number 33003
Greensboro, North Carolina



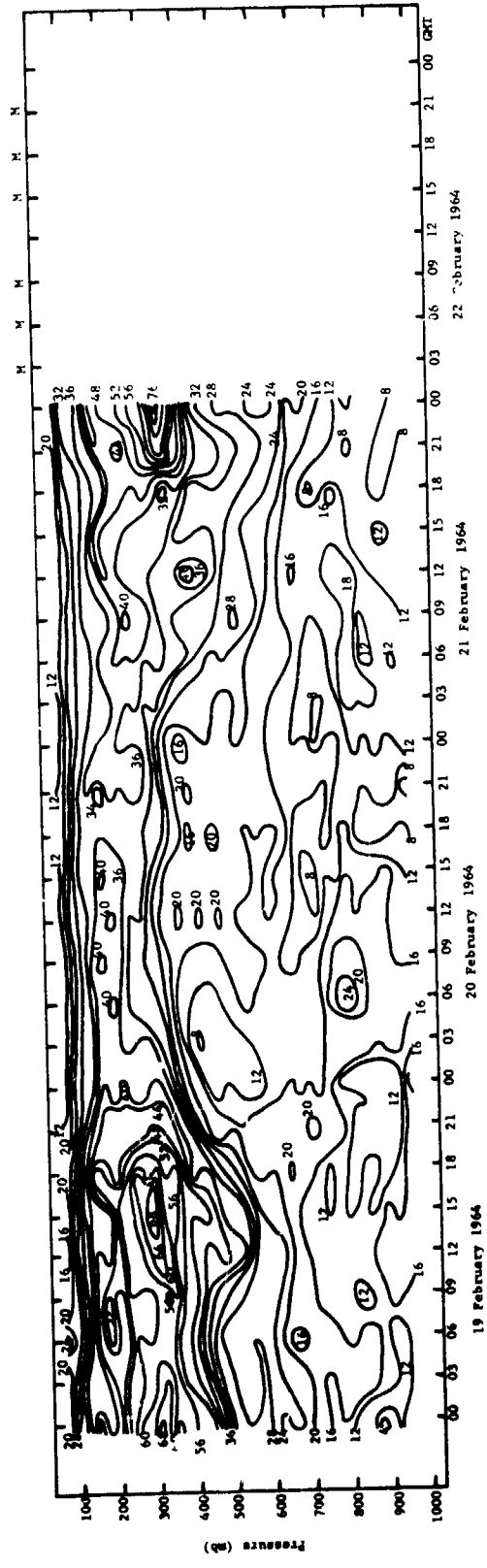
Dewpoint Temperature ($^{\circ}\text{C}$) for Greensboro, North Carolina, Station Number 33003



Zonal Wind Component (m/sec) for Greensboro, North Carolina, Station Number 33003

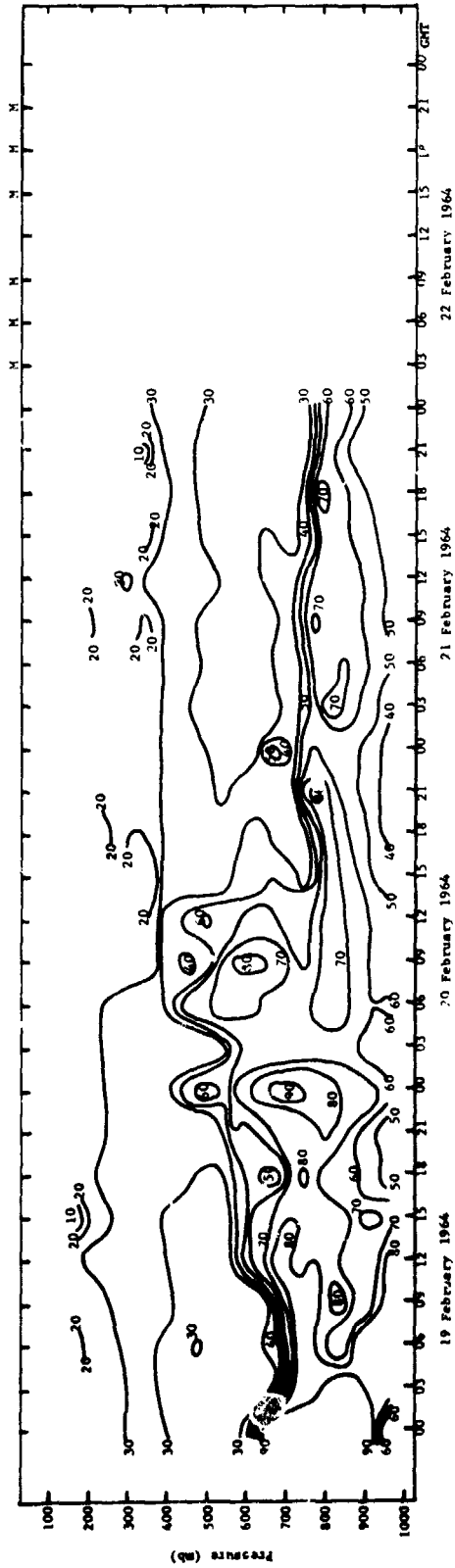


Meridional Wind Component (m/sec) for Greensboro, North Carolina, Station Number 33003

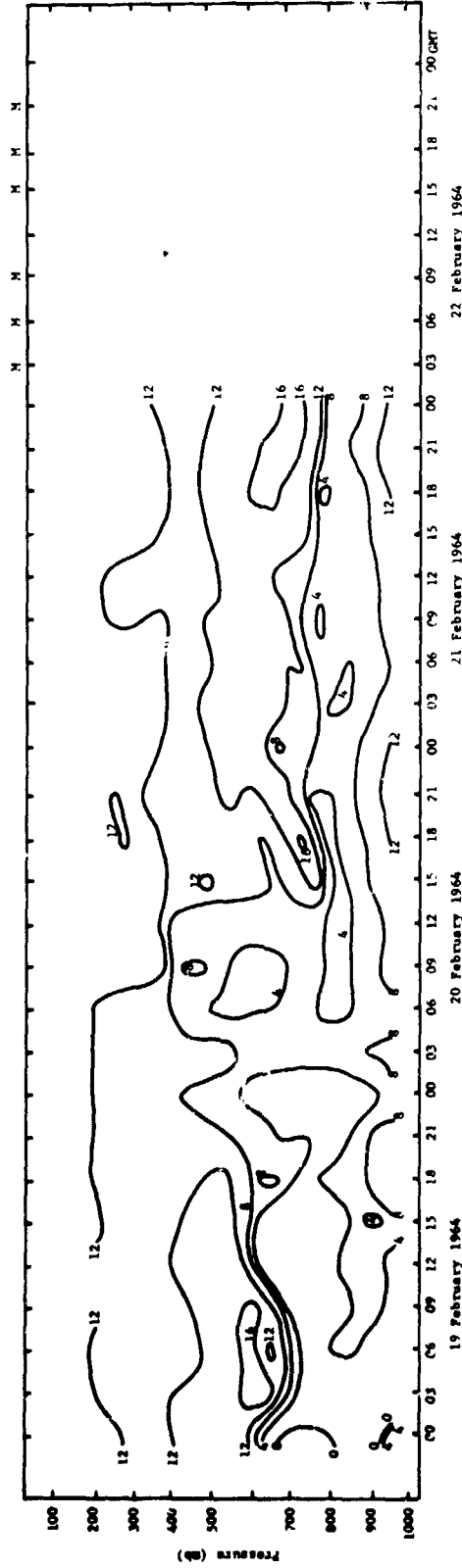


Wind Speed (m/sec) for Greensboro, North Carolina, Station Number 33003

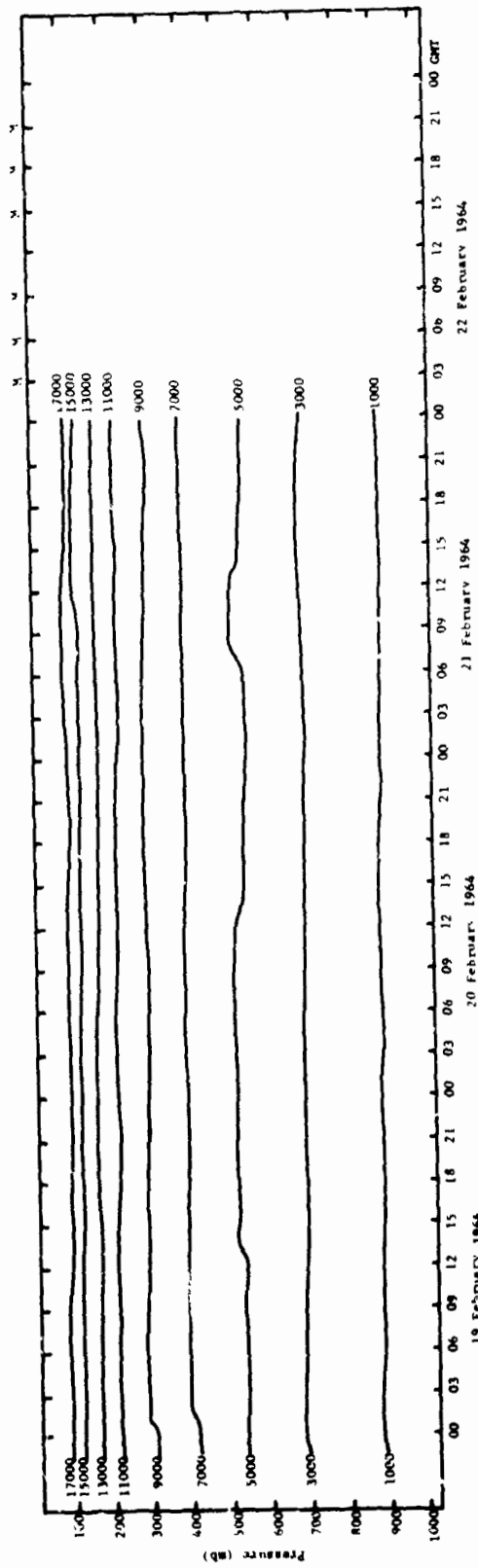
NOTE: Interval not constant



Relative Humidity (%) for Greensboro, North Carolina, Station Number 33003

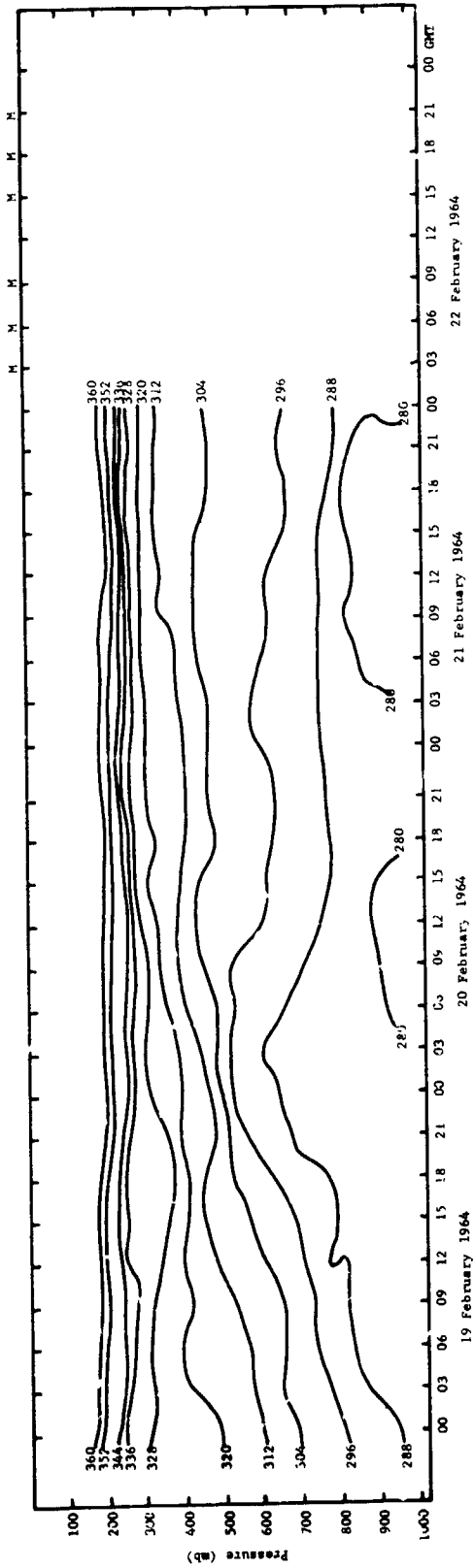


Dewpoint Depression (°C) for Greensboro, North Carolina, Station Number 33003

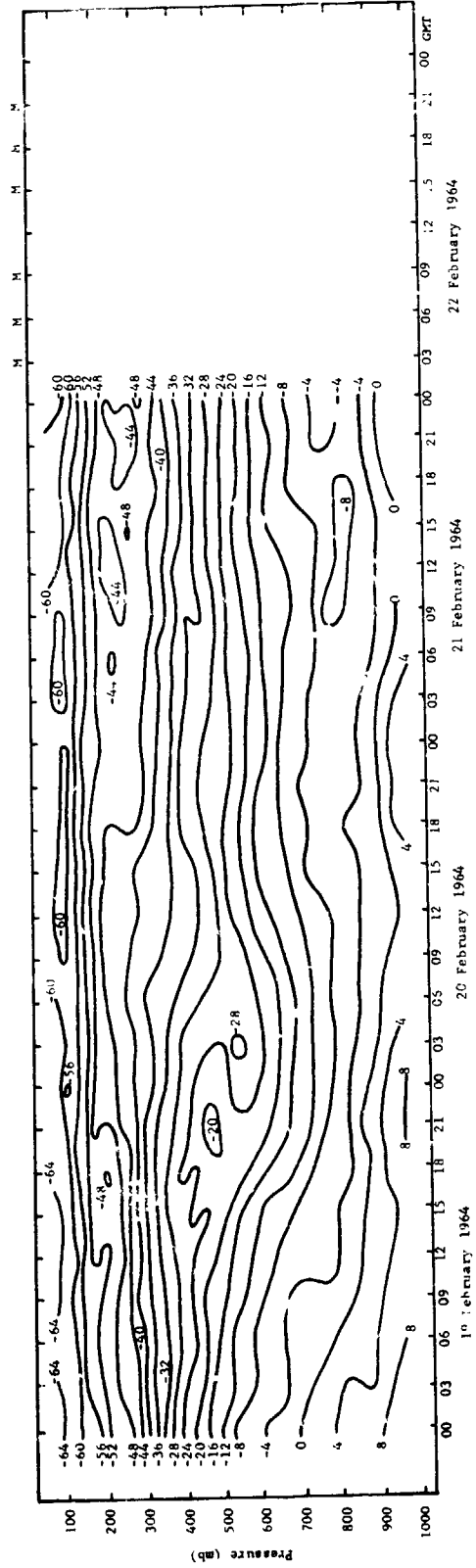


Height (gpm) for Greensboro, North Carolina, Station Number 33003

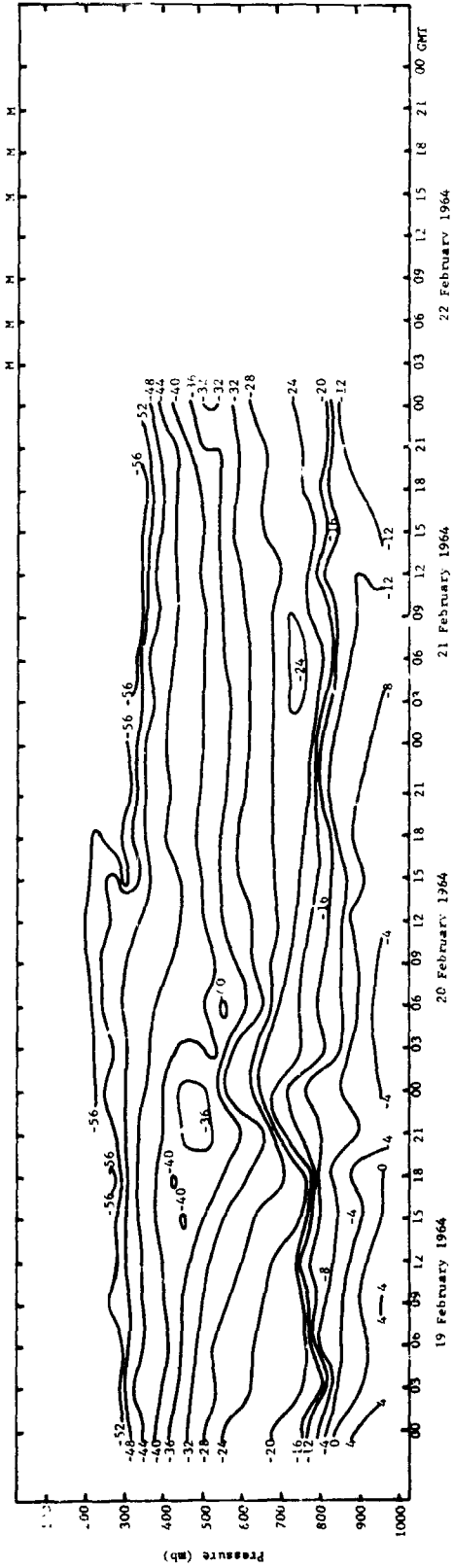
Station Number 33004
Charleston, South Carolina



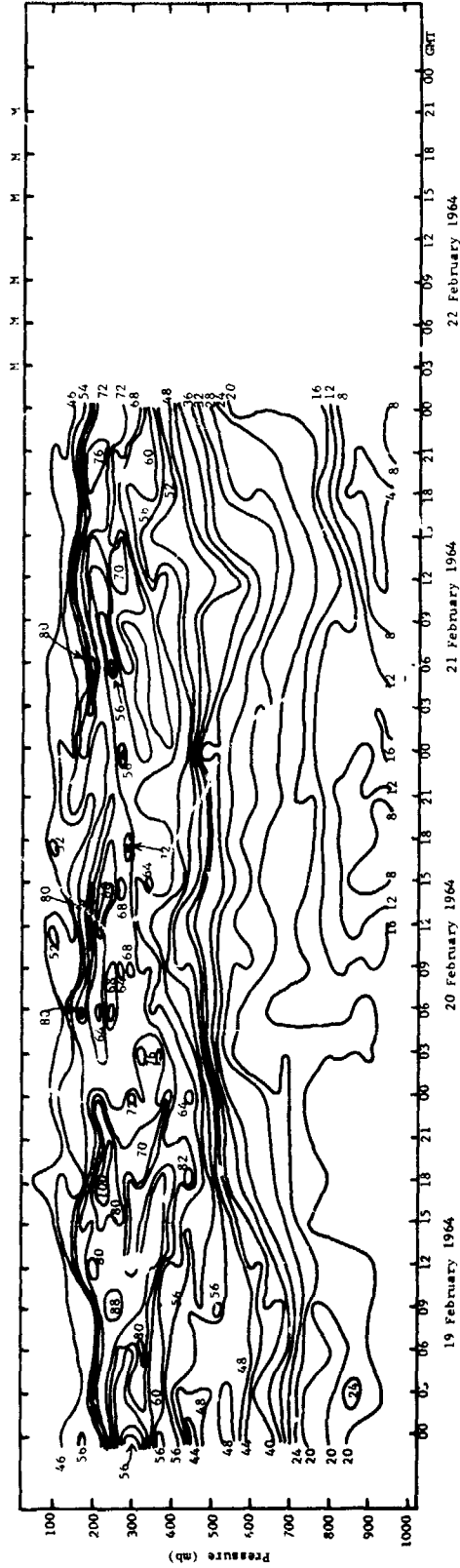
Potential Temperature ($^{\circ}\text{K}$) for Charleston, South Carolina, Station Number 33004



Temperature ($^{\circ}\text{C}$) for Charleston, South Carolina, Station Number 33004

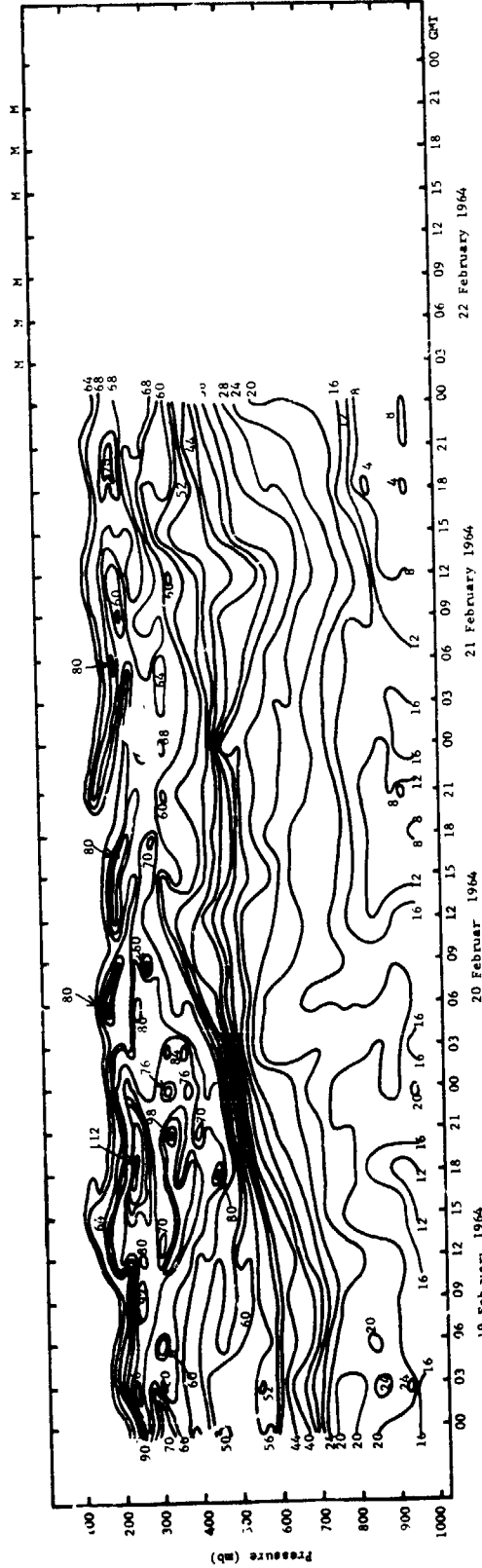
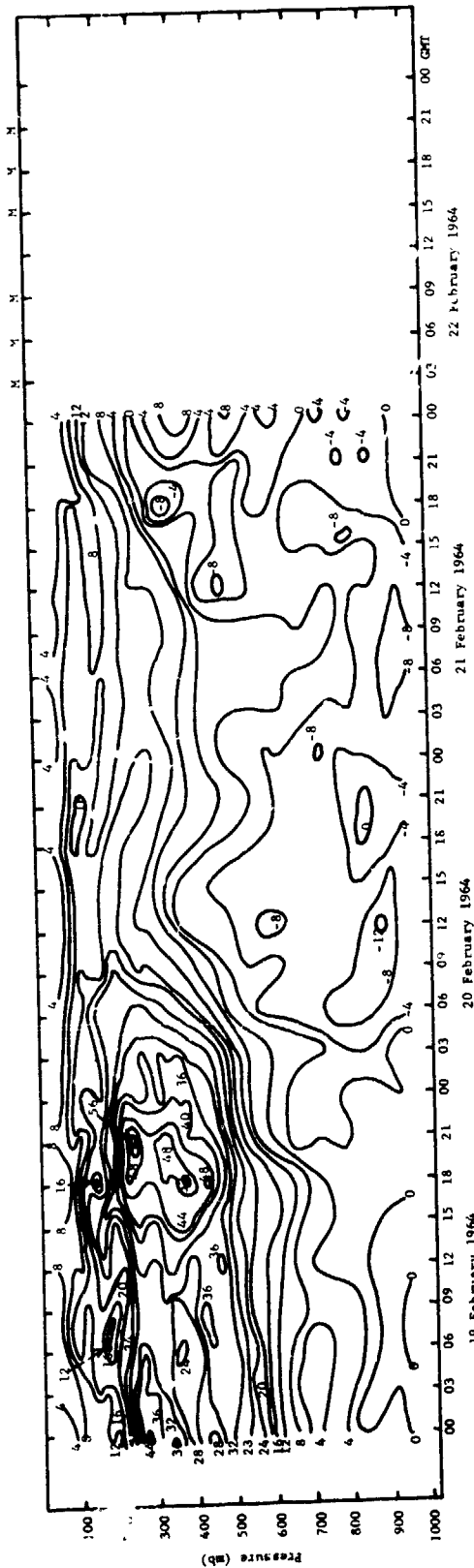


Dewpoint Temperature ($^{\circ}$ C) for Charleston South Carolina, Station Number 33004

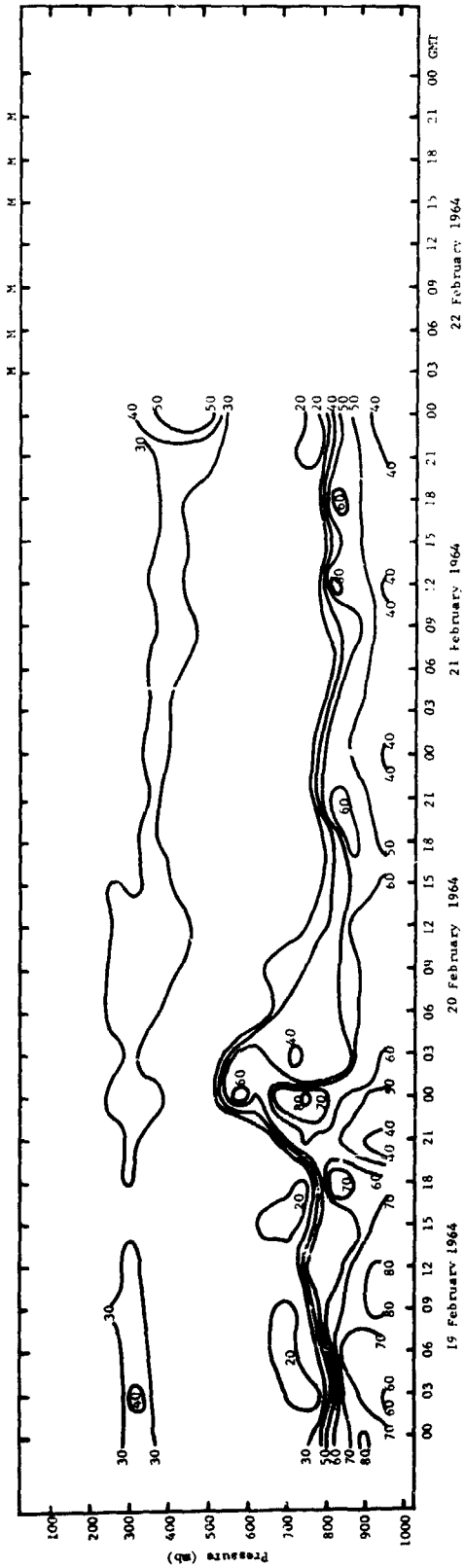


NOTE: Interval not constant

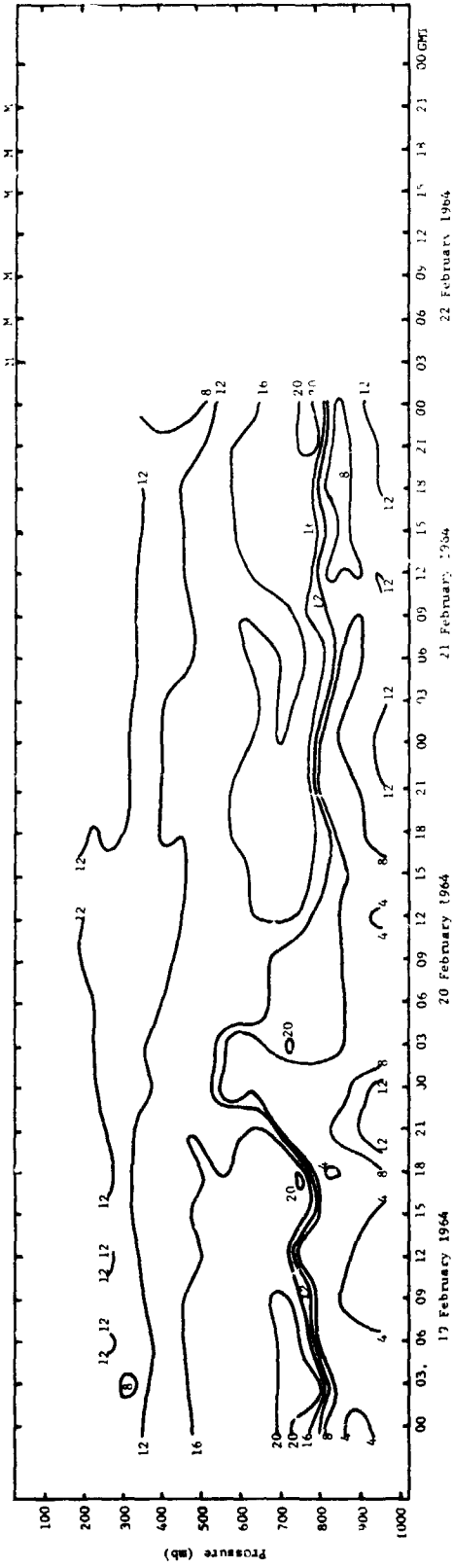
Zonal Wind Component (m/sec) for Charleston, South Carolina, Station Number 33004



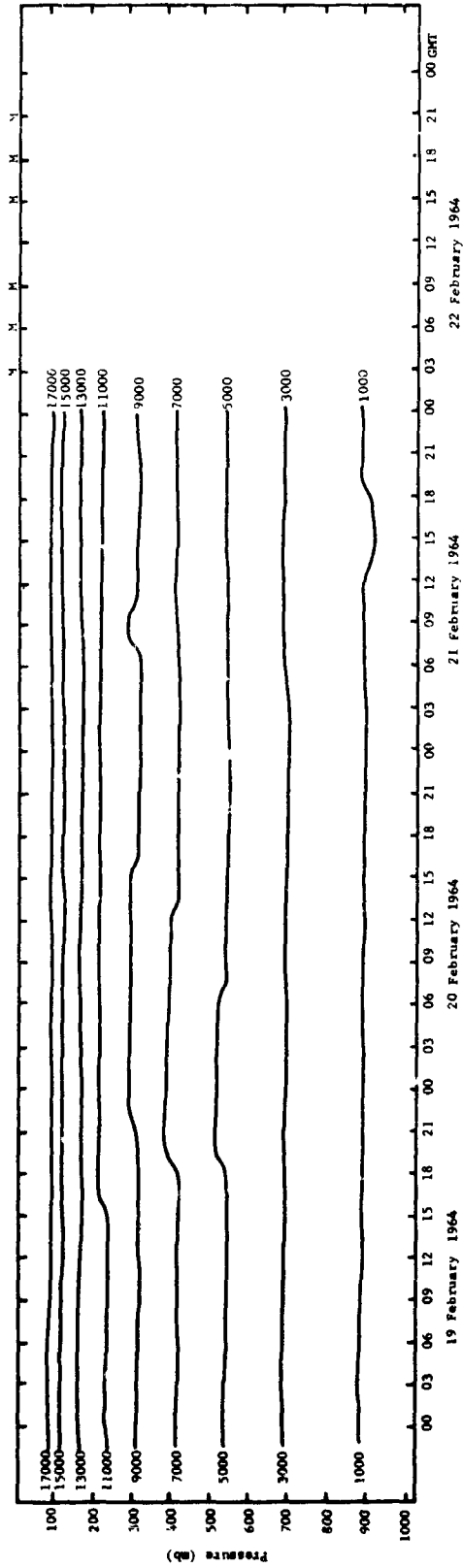
NOTE: Interval not constant.



Relative Humidity (%) for Charleston, South Carolina, Station Number 33004



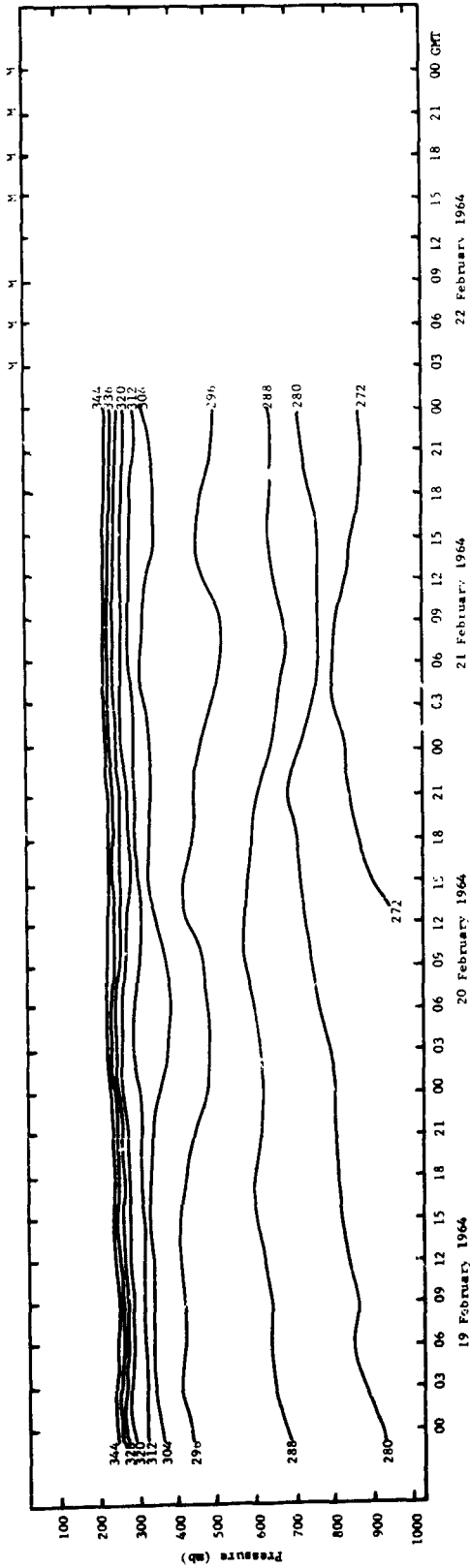
Dewpoint Depression (°C) for Charleston, South Carolina, Station Number 33004



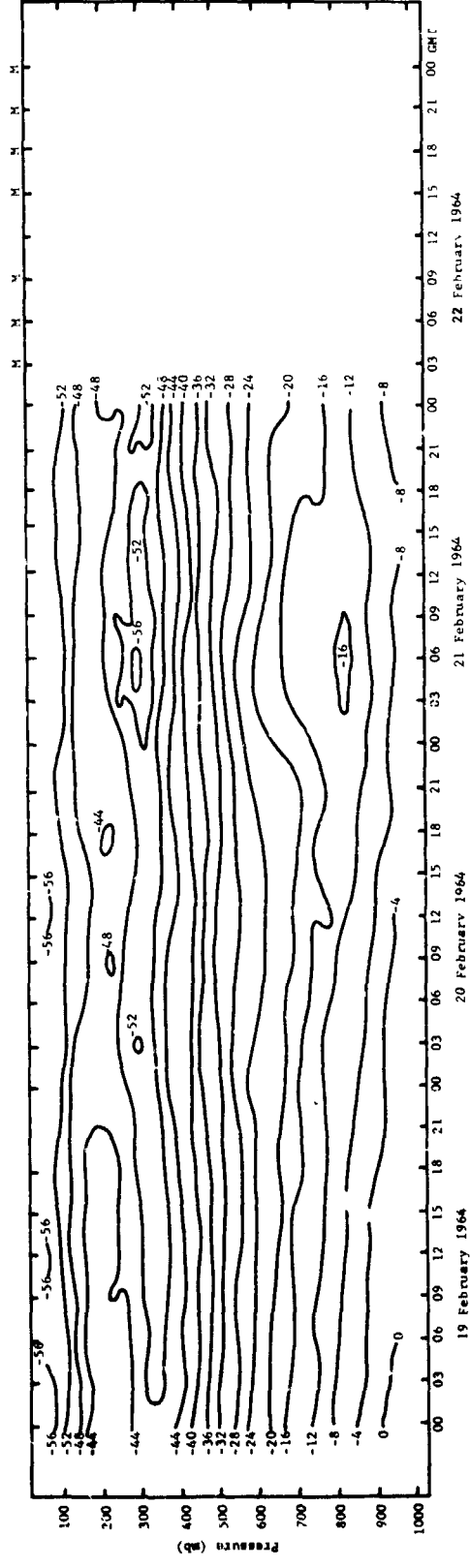
Height (gpm) for Charleston, South Carolina, Station Number 33004

Station Number 33005

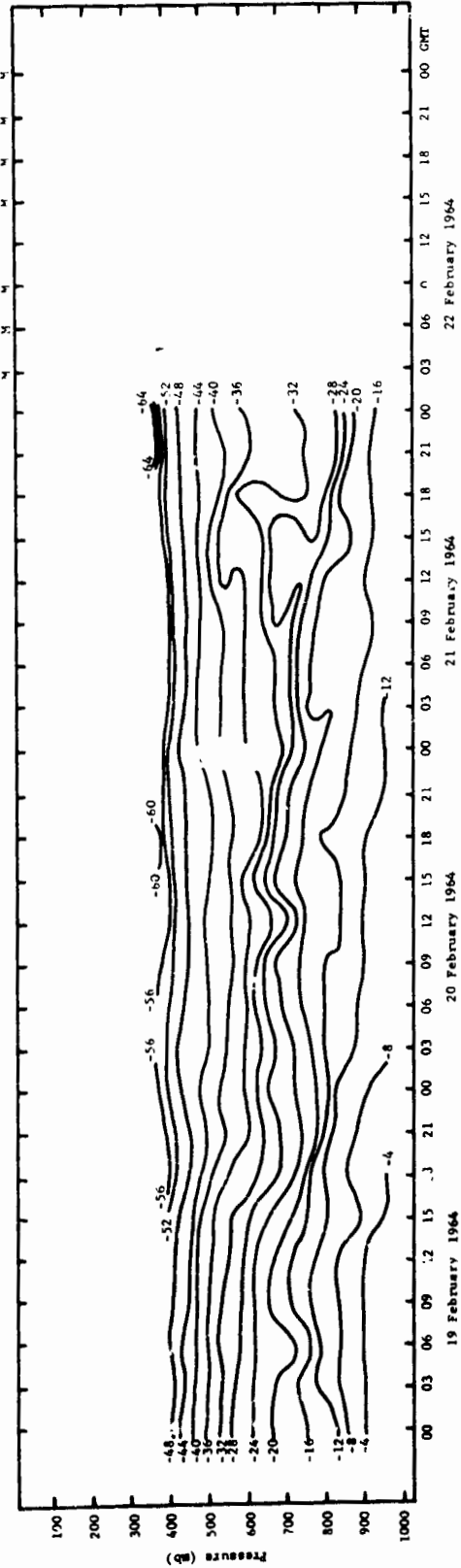
Columbia, Missouri



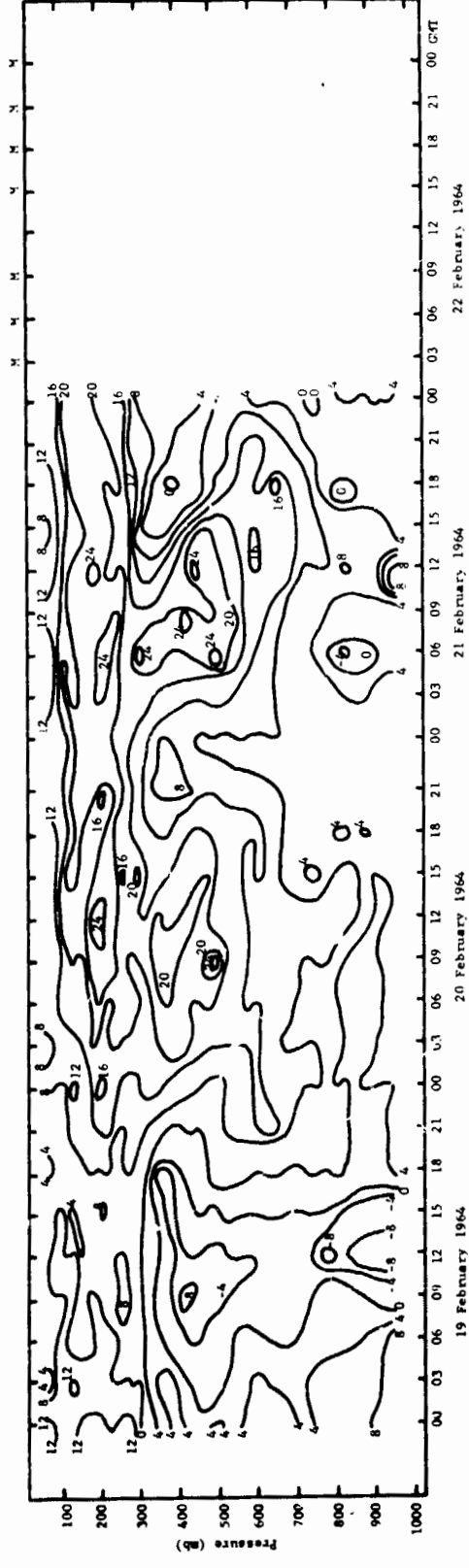
Potential Temperature (K) for Columbia, Missouri, Station Number 33005



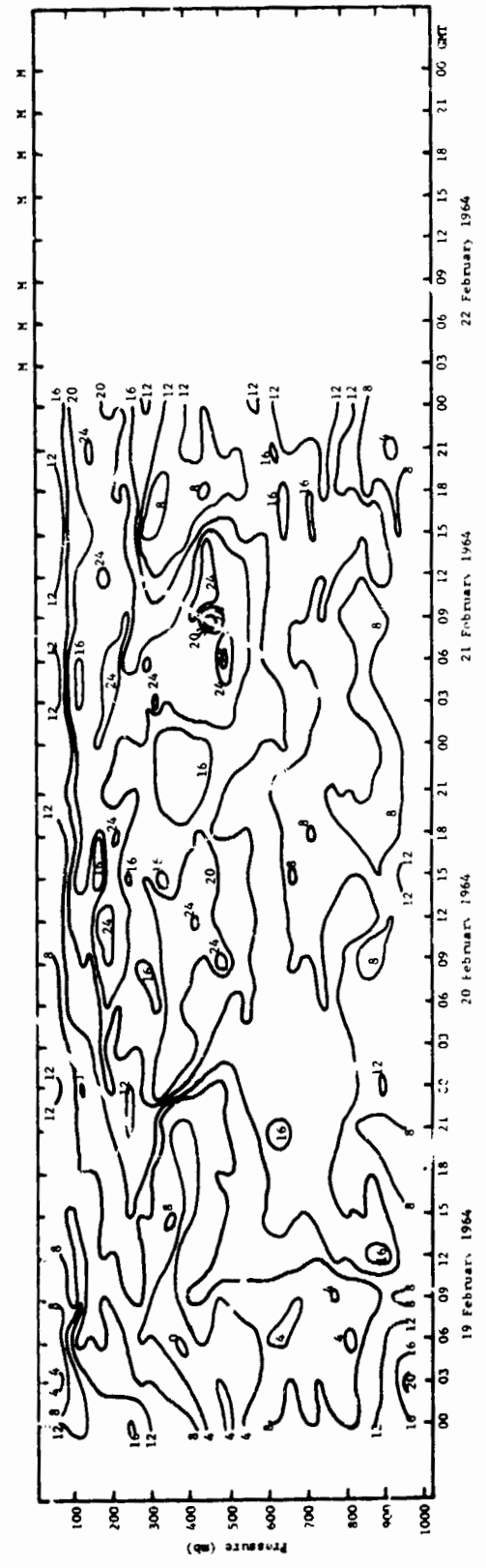
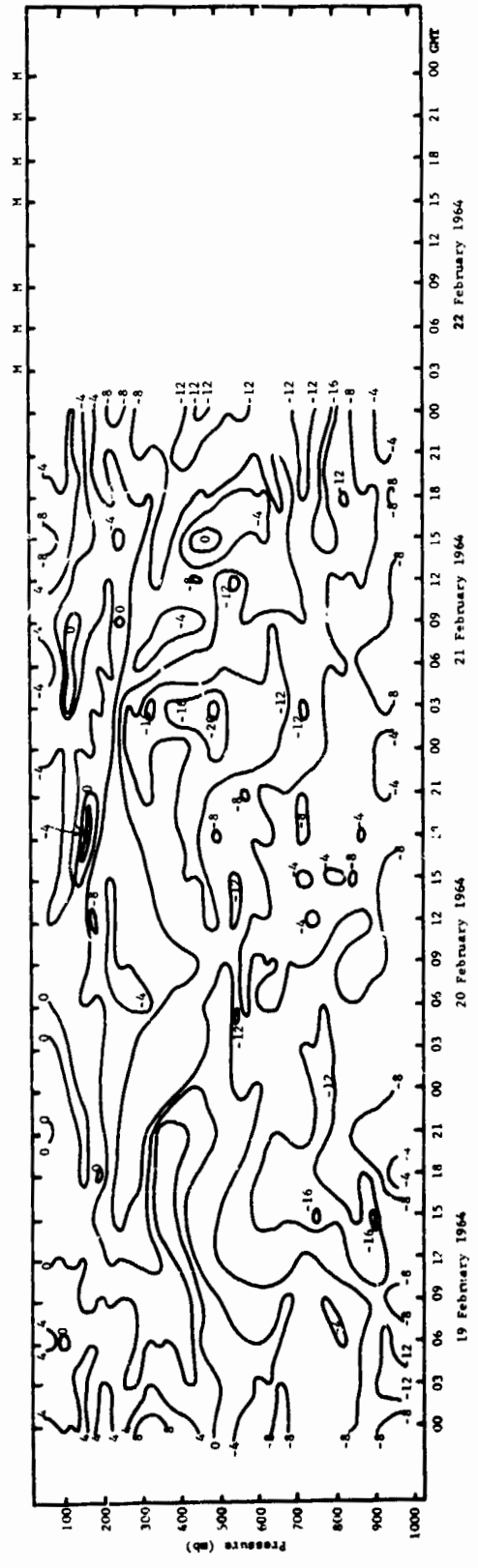
Temperature (C) for Columbia, Missouri, Station Number 33005

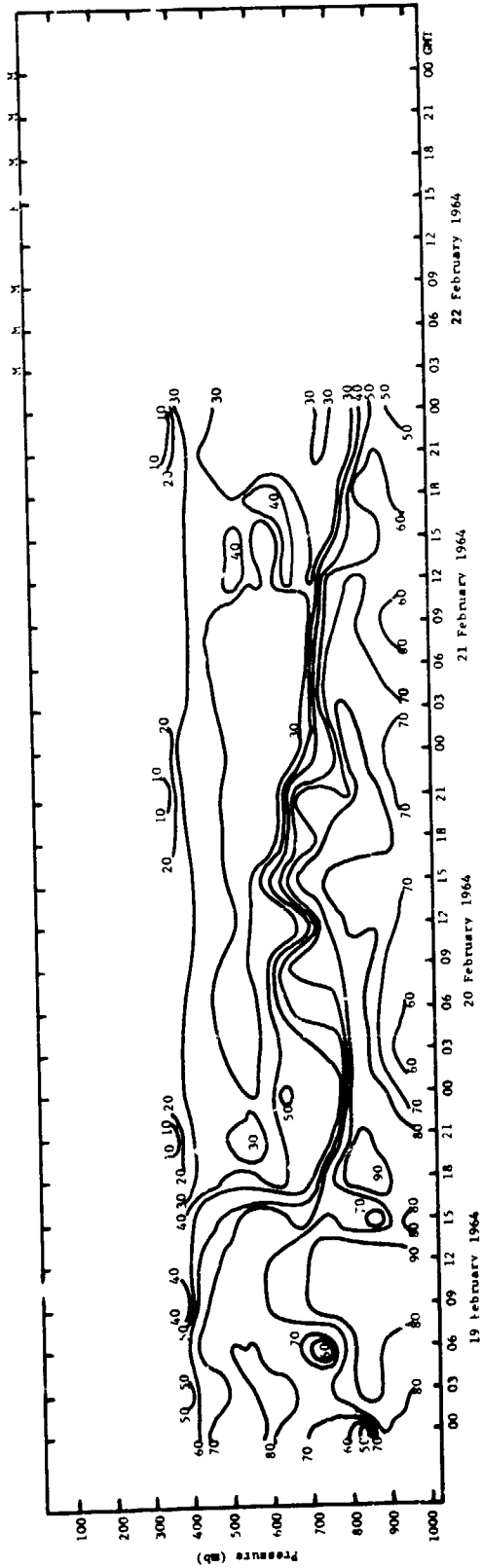


Dewpoint Temperature ($^{\circ}$ C) for Columbia, Missouri, Station Number 33005

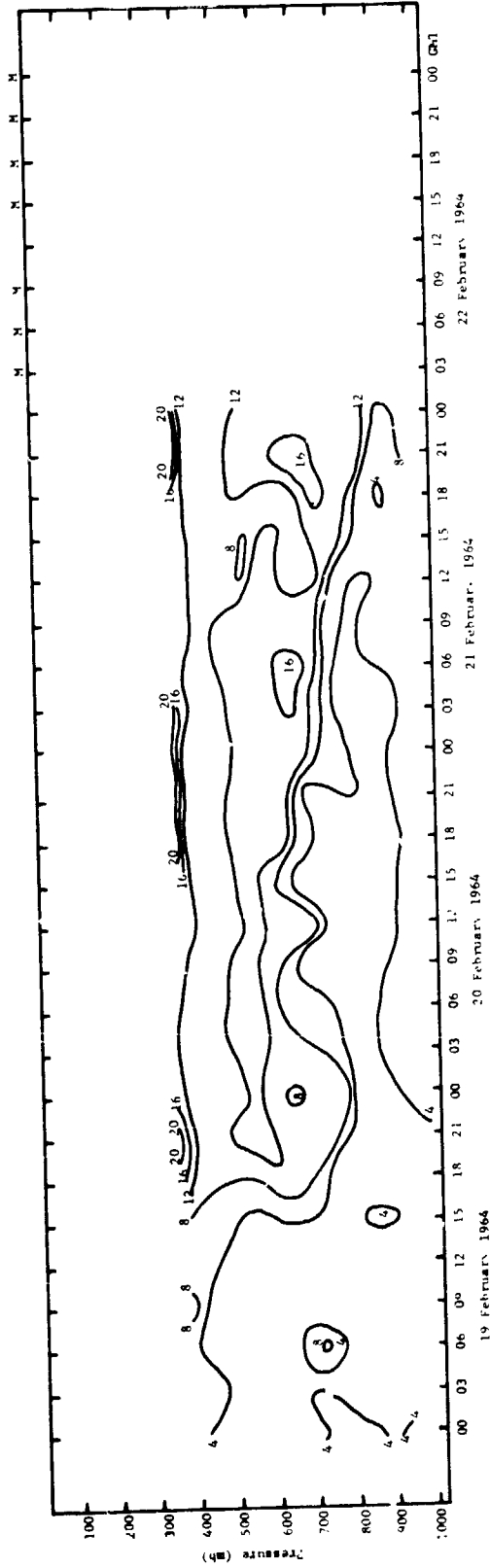


Zonal Wind Component (m/sec) for Columbia, Missouri, Station Number 33005

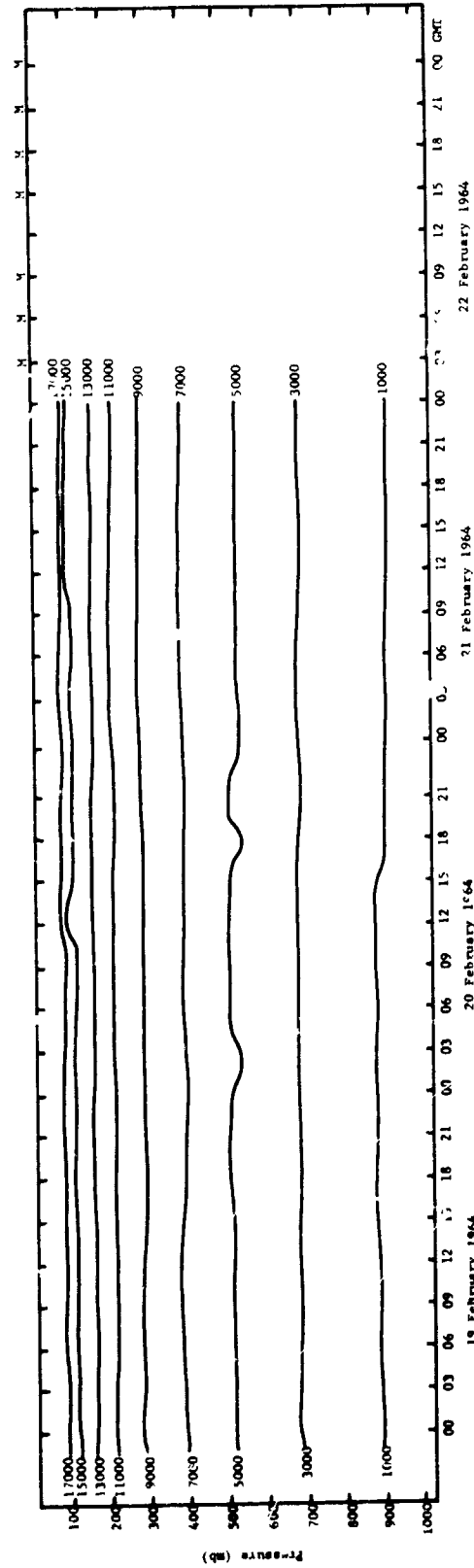




Relative Humidity (%) for Columbia, Missouri, Station Number 33005



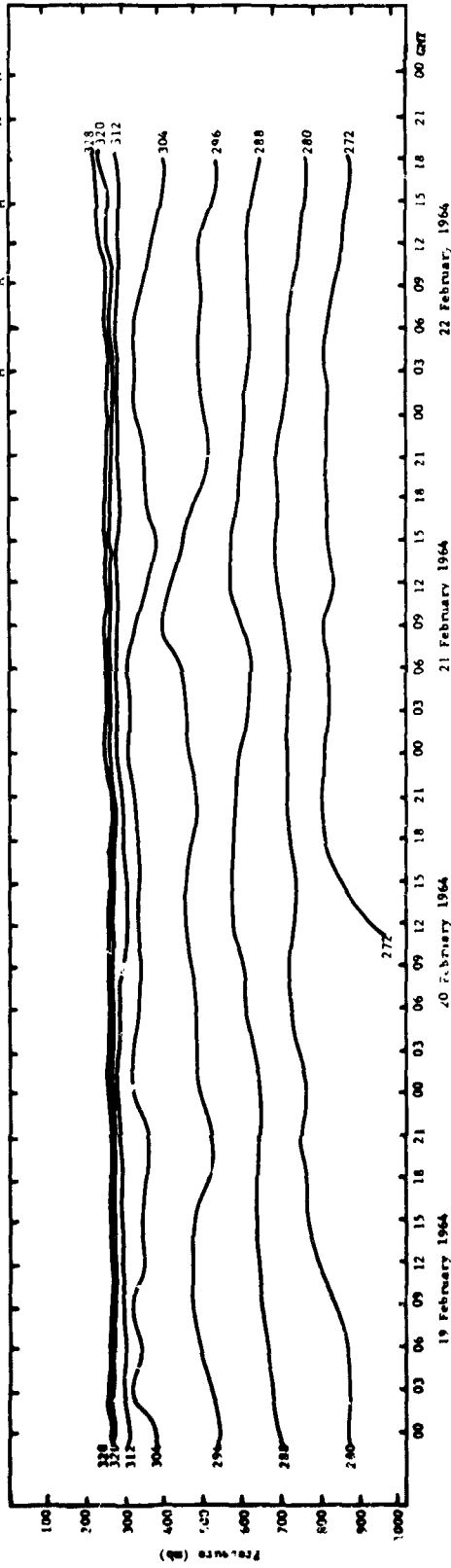
Dewpoint Depressure (°C) for Columbia, Missouri, Station Number 33005



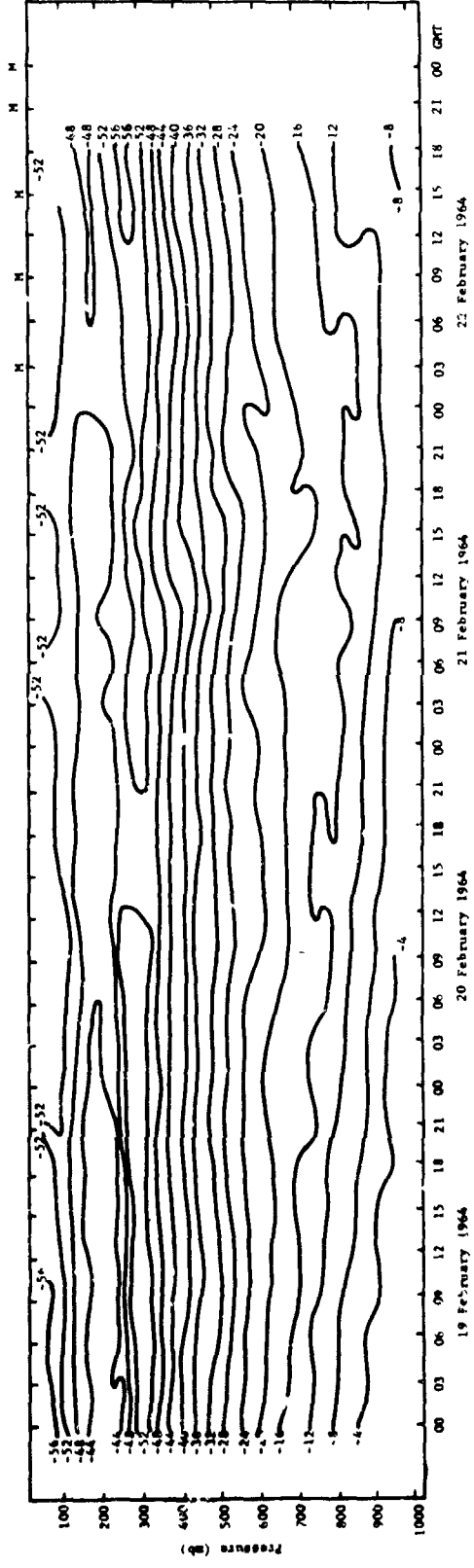
Height (gpm) for Columbia, Missouri, Station Number 33005

Station Number 33006

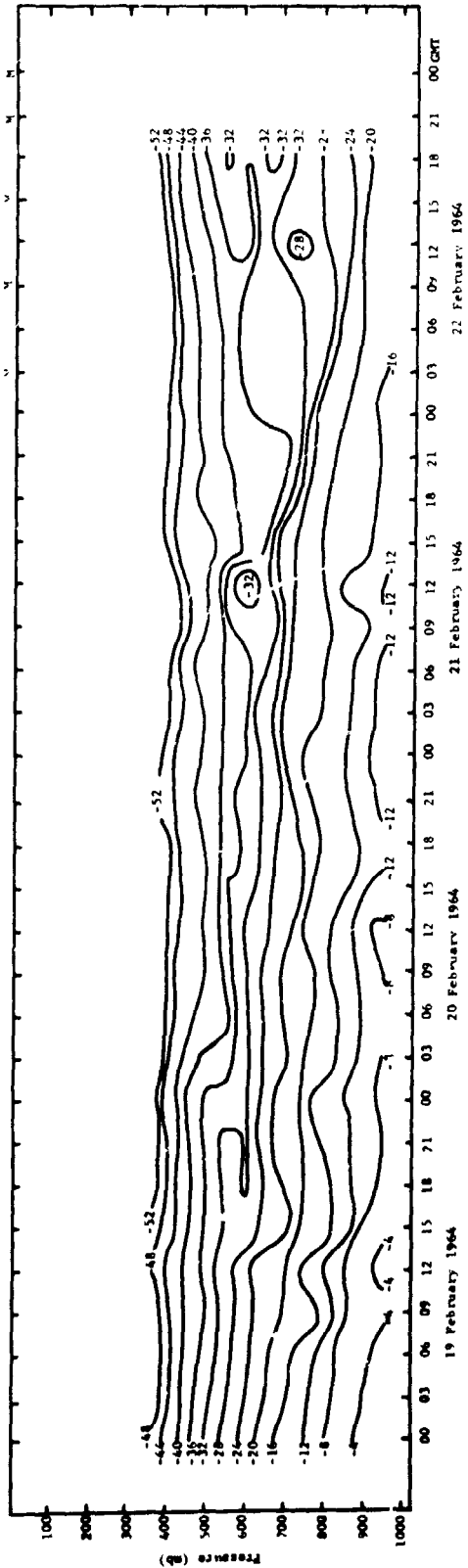
Peoria, Illinois



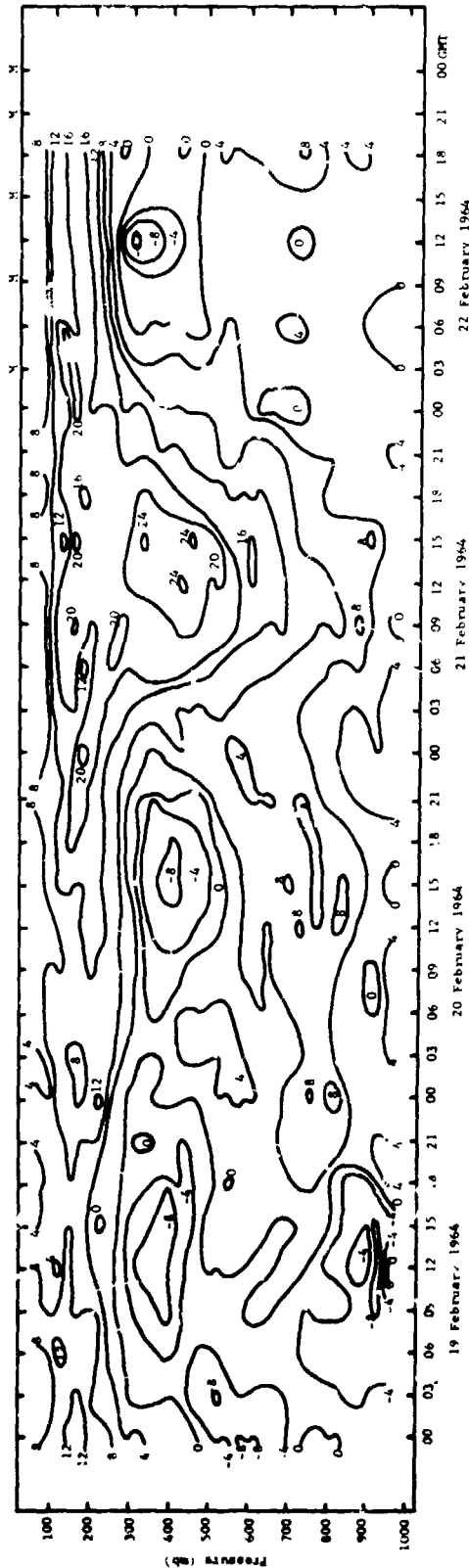
Potential Temperature ($^{\circ}\text{K}$) for Peoria, Illinois, Station Number 33006



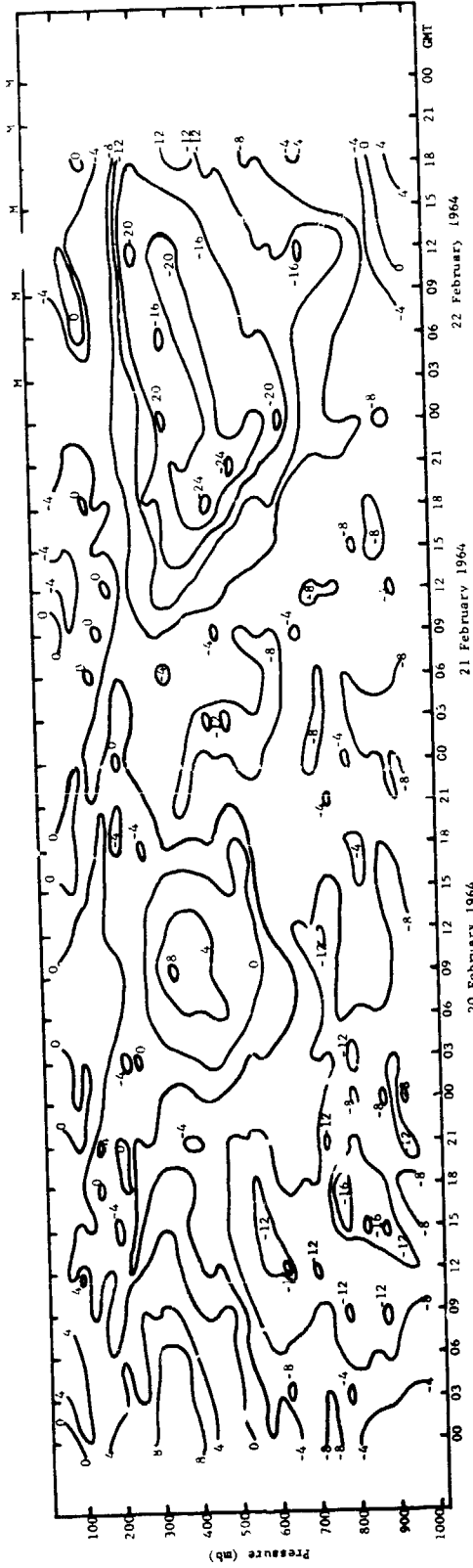
Temperature ($^{\circ}\text{C}$) for Peoria, Illinois, Station Number 33006



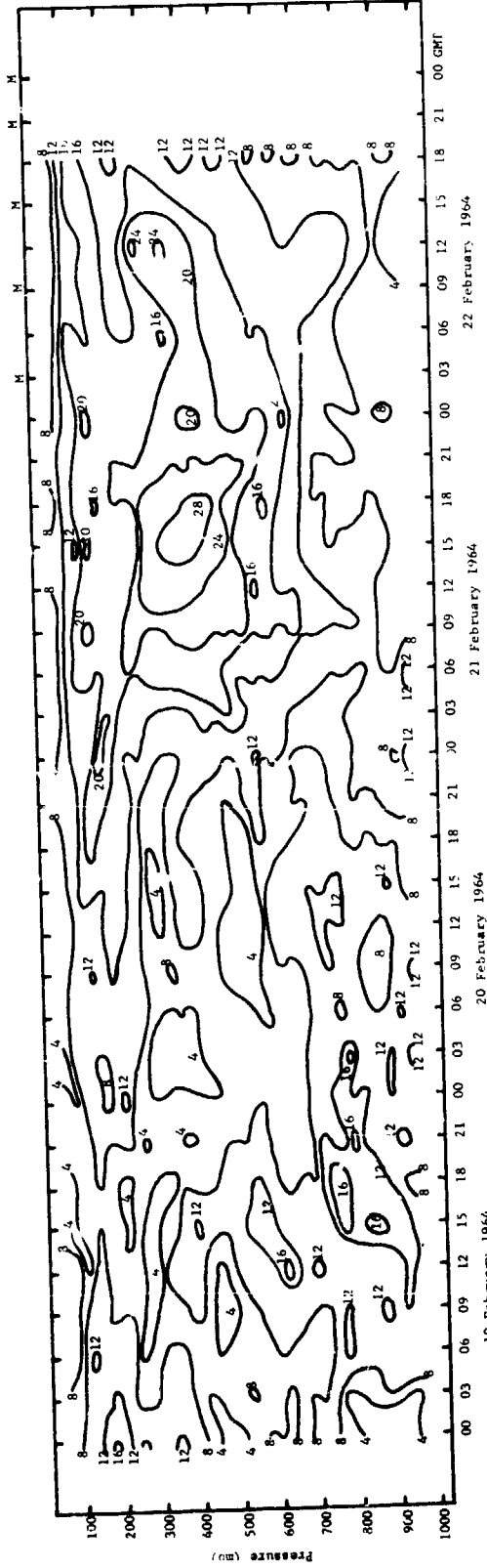
Dewpoint Temperature ($^{\circ}$ C) for Peoria, Illinois, Station Number 33006



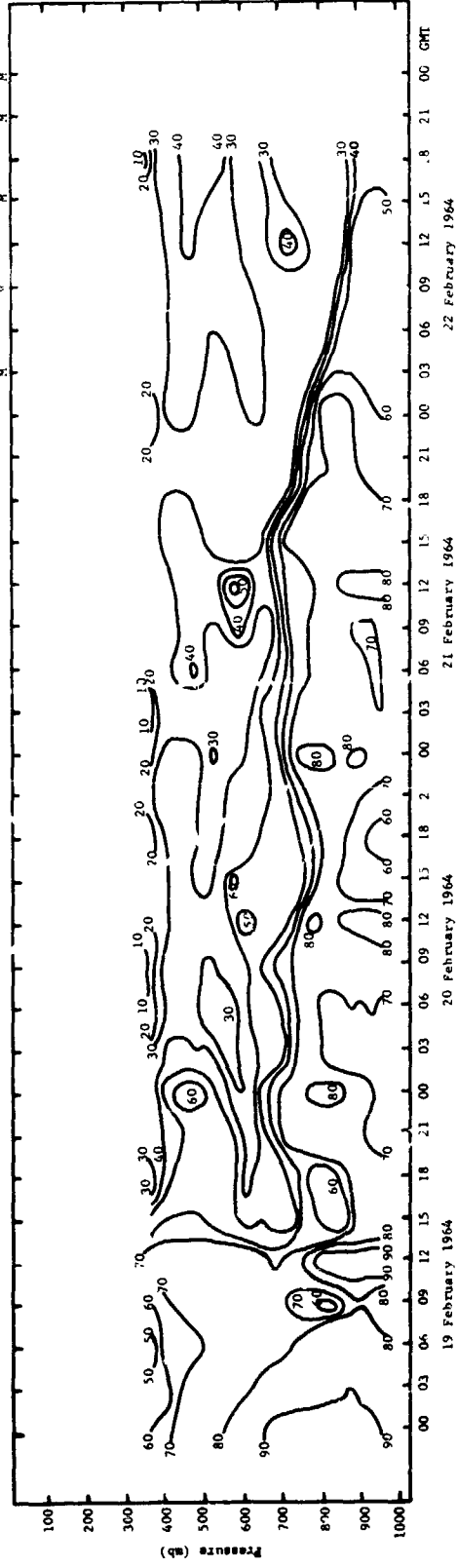
Zonal Wind Component (m/sec) for Peoria, Illinois, Station Number 33006



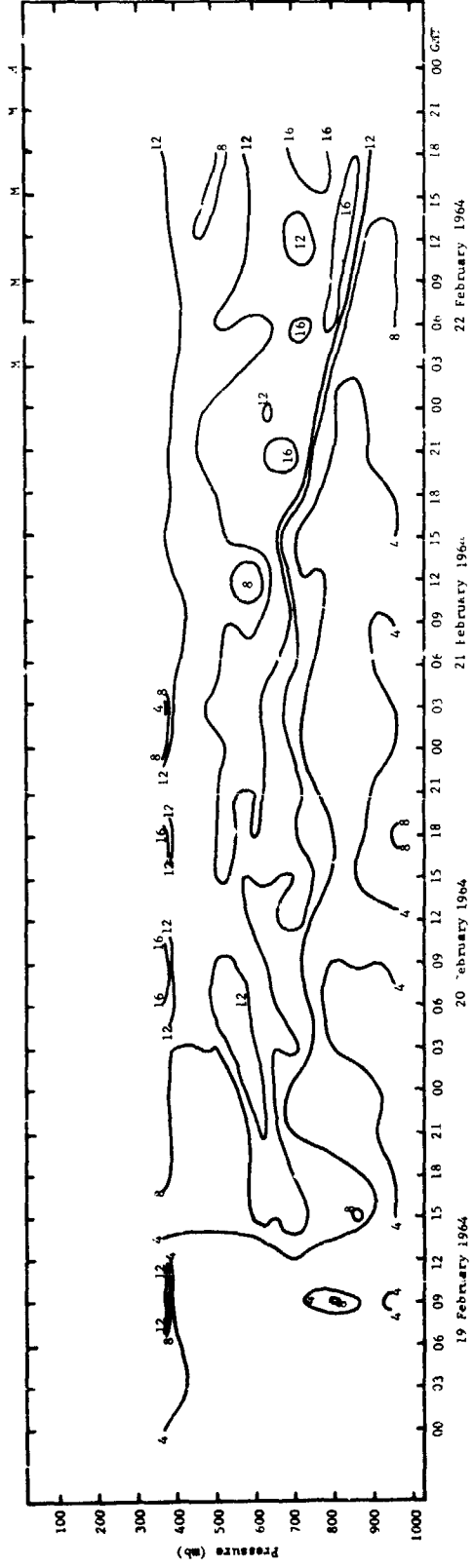
Meridional Wind Component (m/sec) for Peoria, Illinois, Station Number 33006



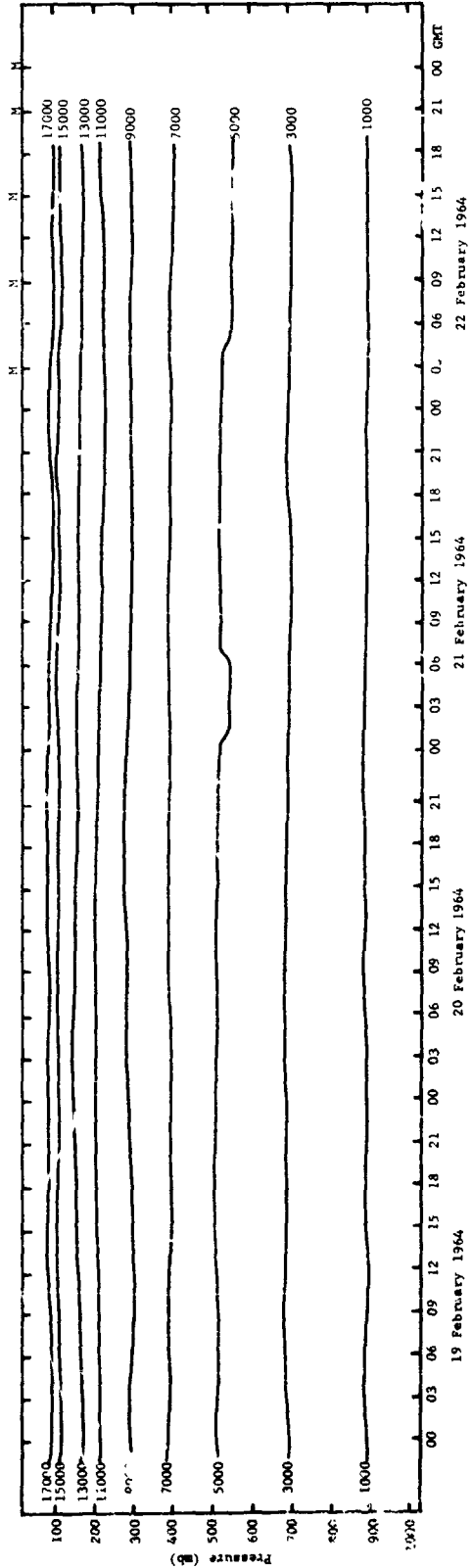
Wind Speed (m/sec) for Peoria, Illinois, Station Number 33006



Relative Humidity (%) for Peoria, Illinois, Station Number 33006

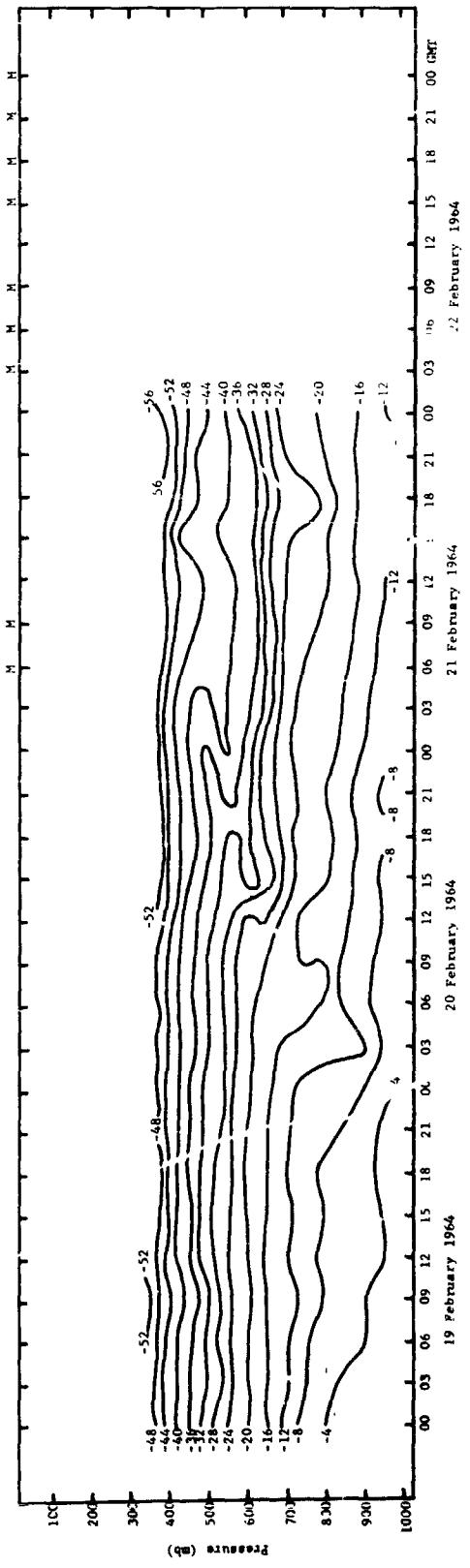


Dewpoint Depression (°C) for Peoria, Illinois, Station Number 33006

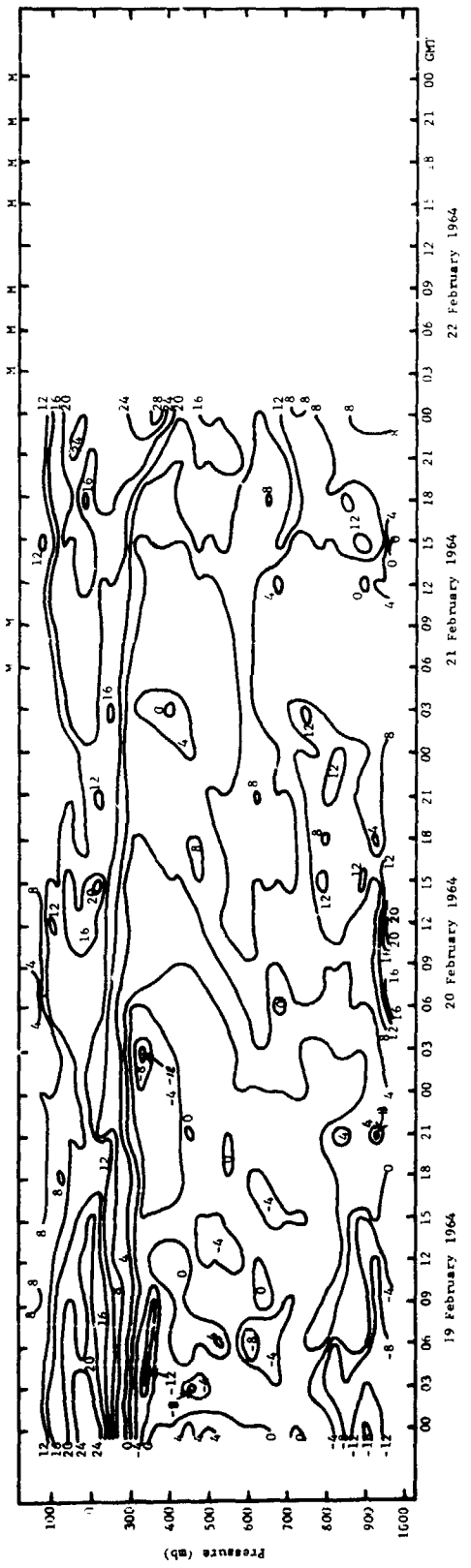


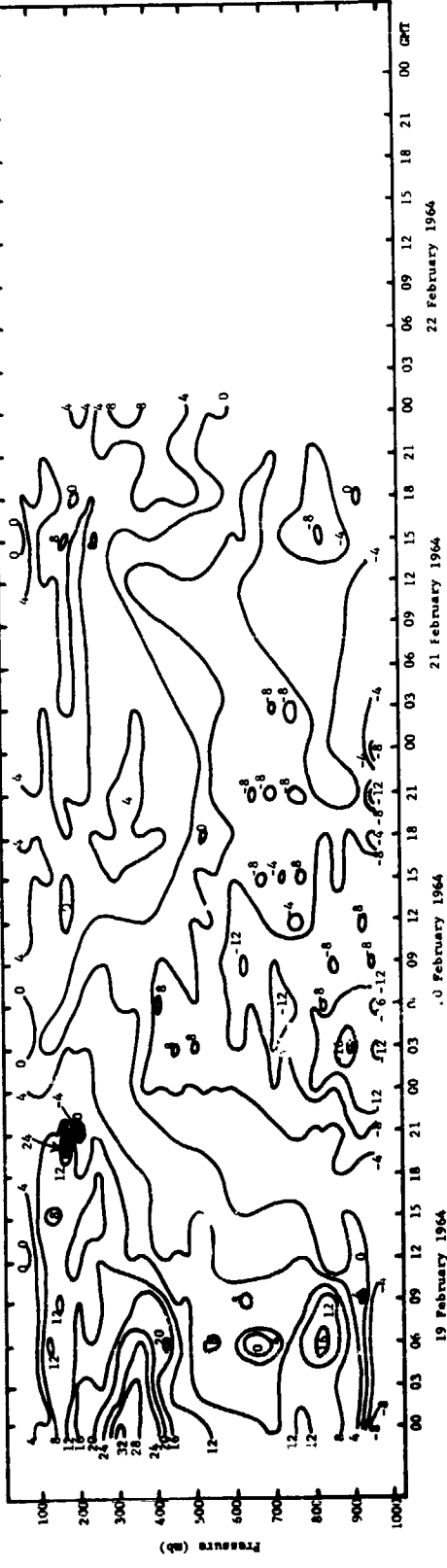
Height (gpm) for Peoria, Illinois, Station Number 33006

Station Number 33007
Pittsburgh, Pennsylvania

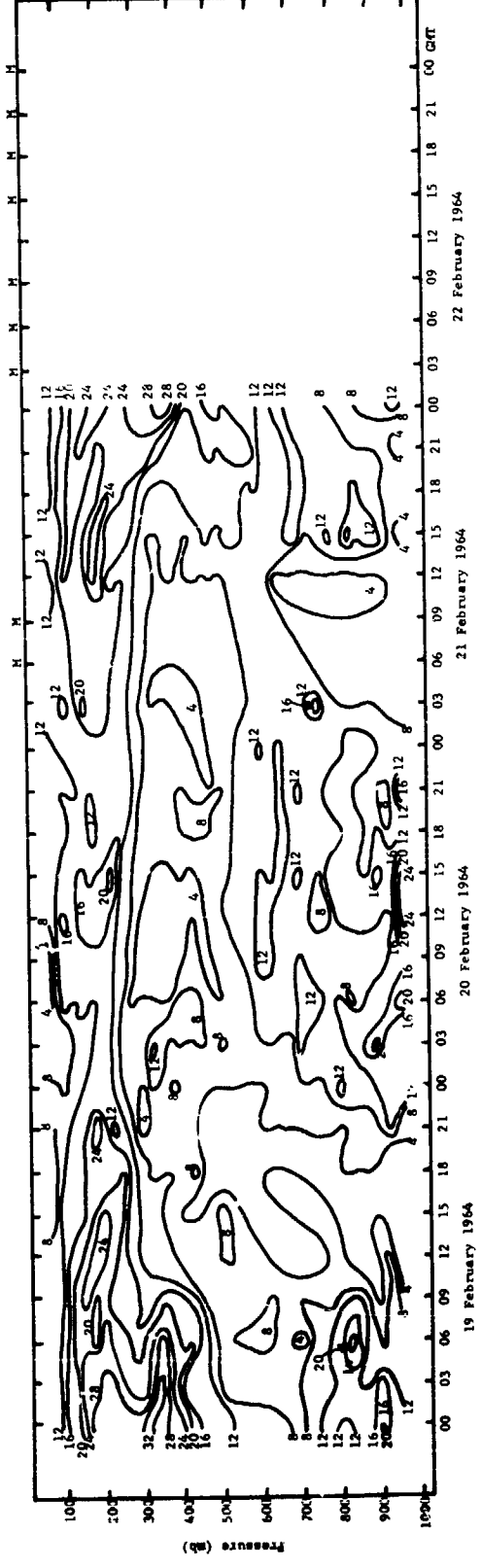


Dewpoint Temperature (°C) for Pittsburgh, Pennsylvania, Station Number 33007

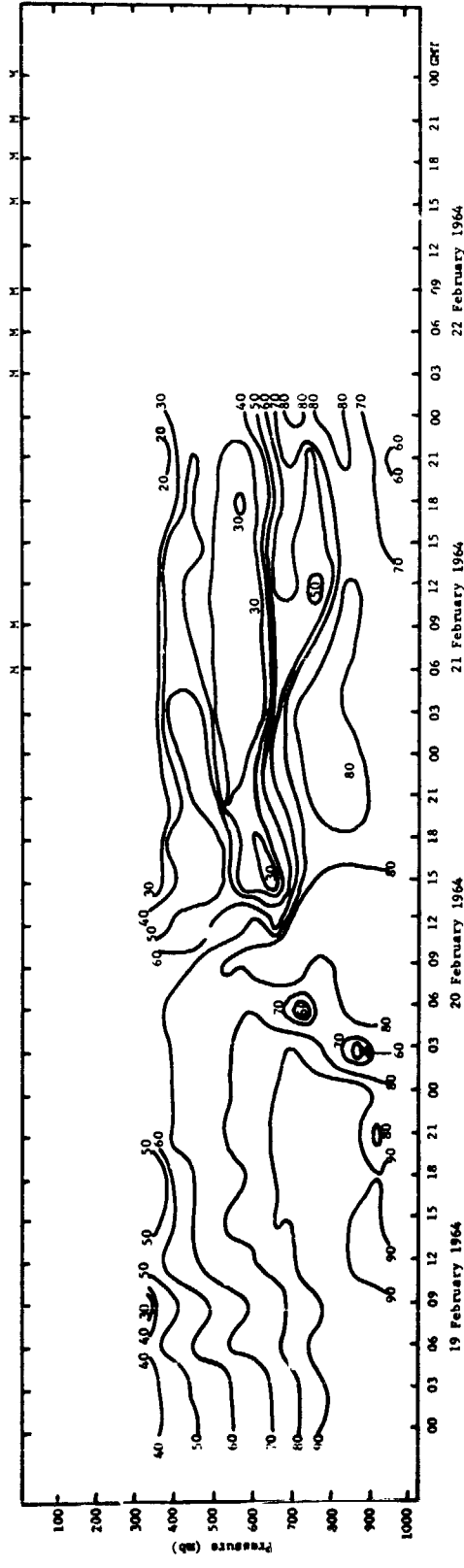




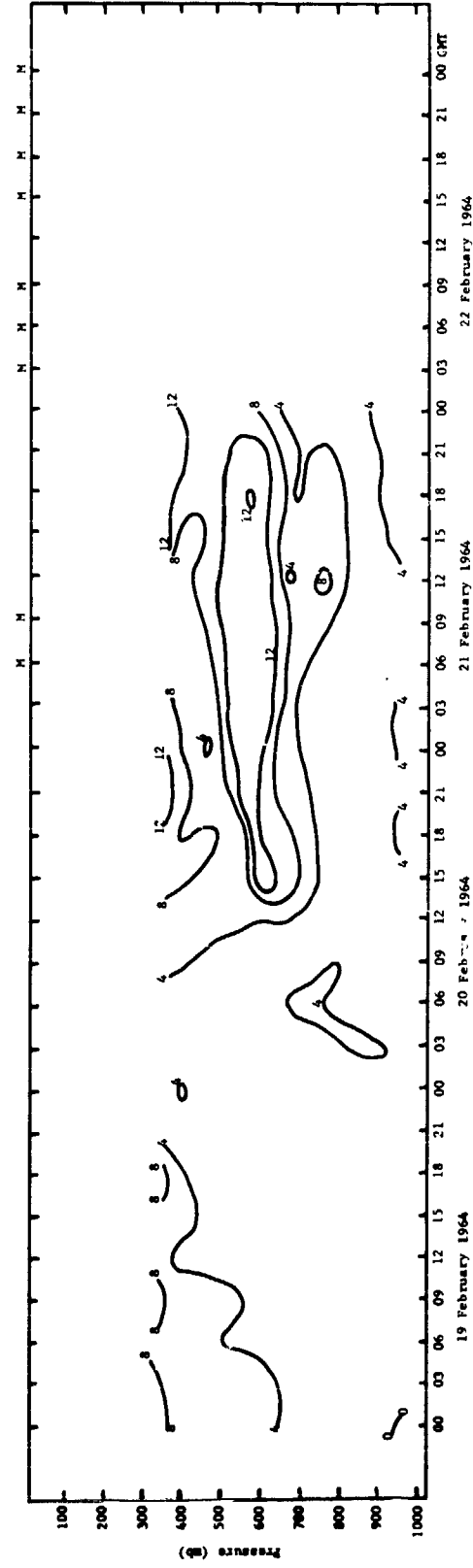
Meridional Wind Component (m/sec) for Pittsburgh, Pennsylvania, Station Number 33007



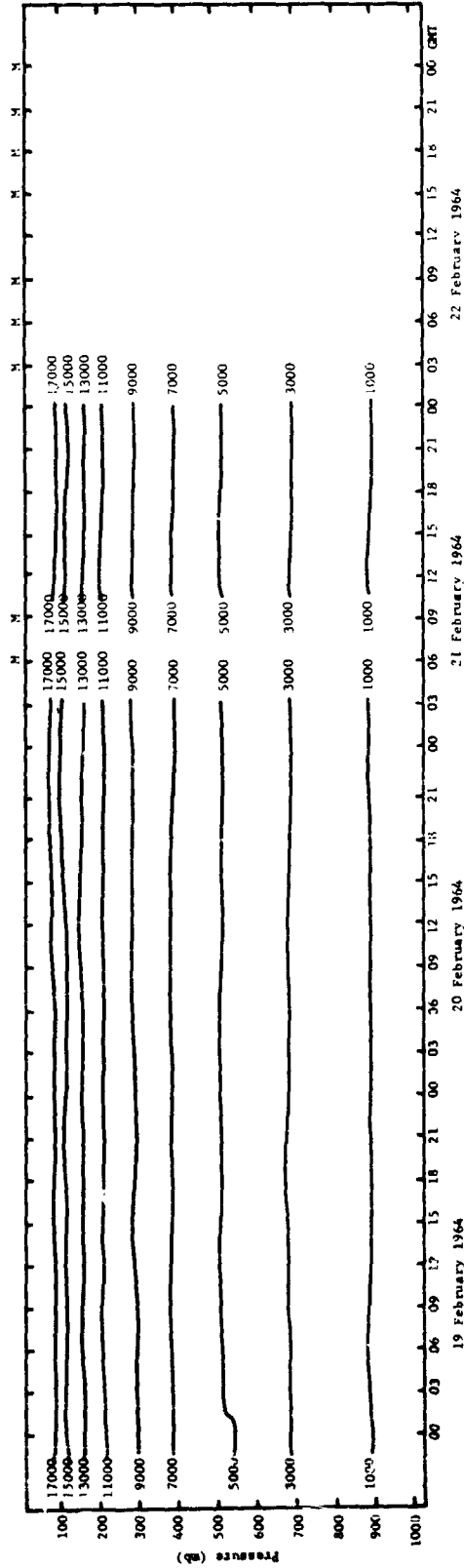
Wind Speed (m/sec) for Pittsburgh, Pennsylvania, Station Number 33007



Relative Humidity (%) for Pittsburgh, Pennsylvania, Station Number 33007



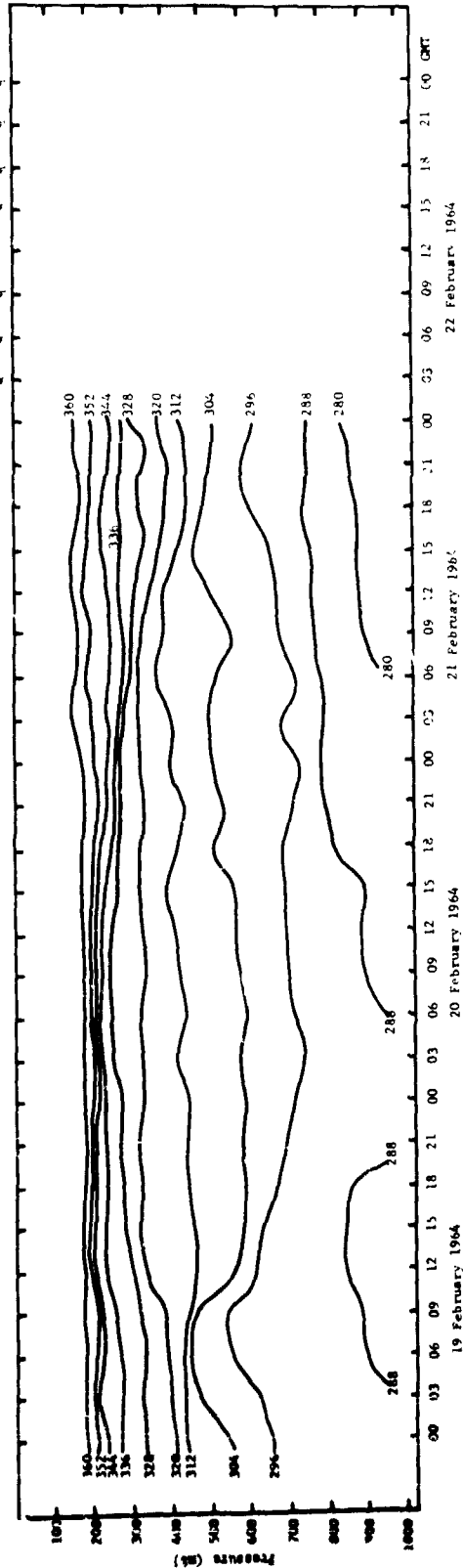
Dewpoint Depression ($^{\circ}$ C) for Pittsburgh, Pennsylvania, Station Number 33007



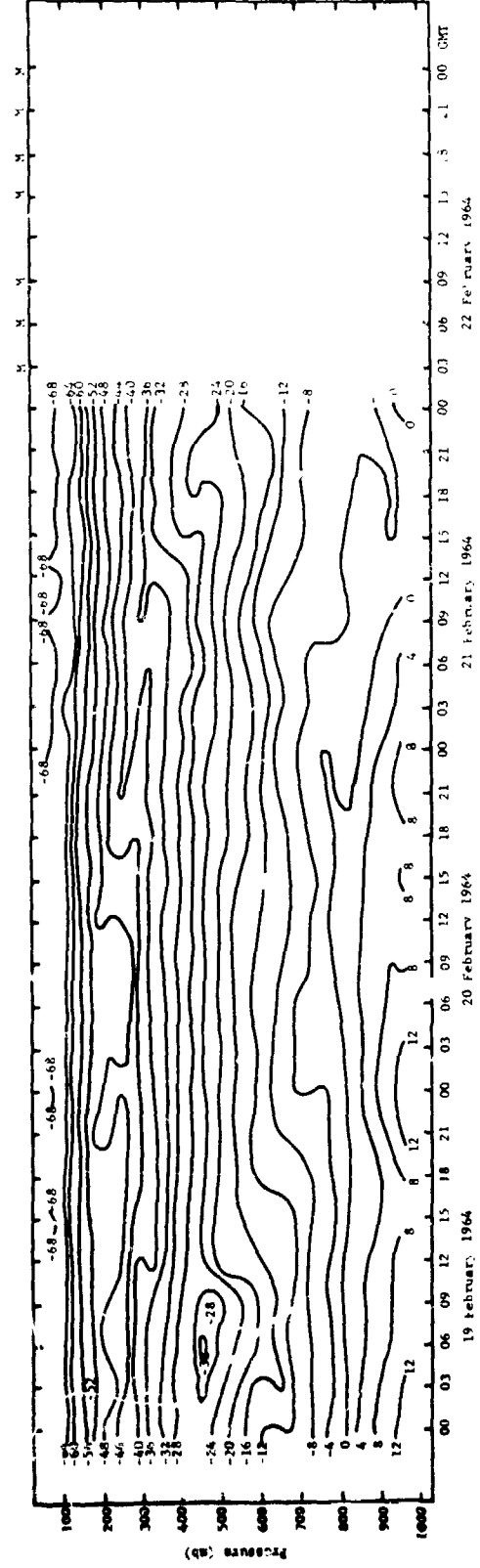
Height (gpm) for Pittsburgh, Pennsylvania, Station Number 33007

Station Number 33008

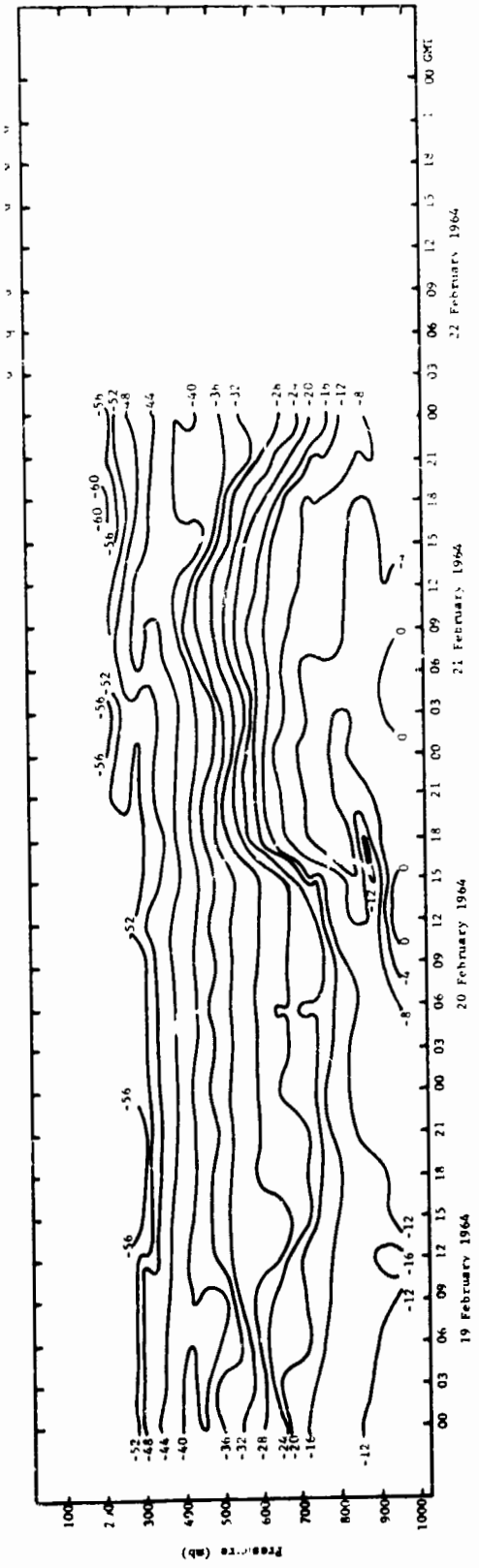
San Antonio, Texas



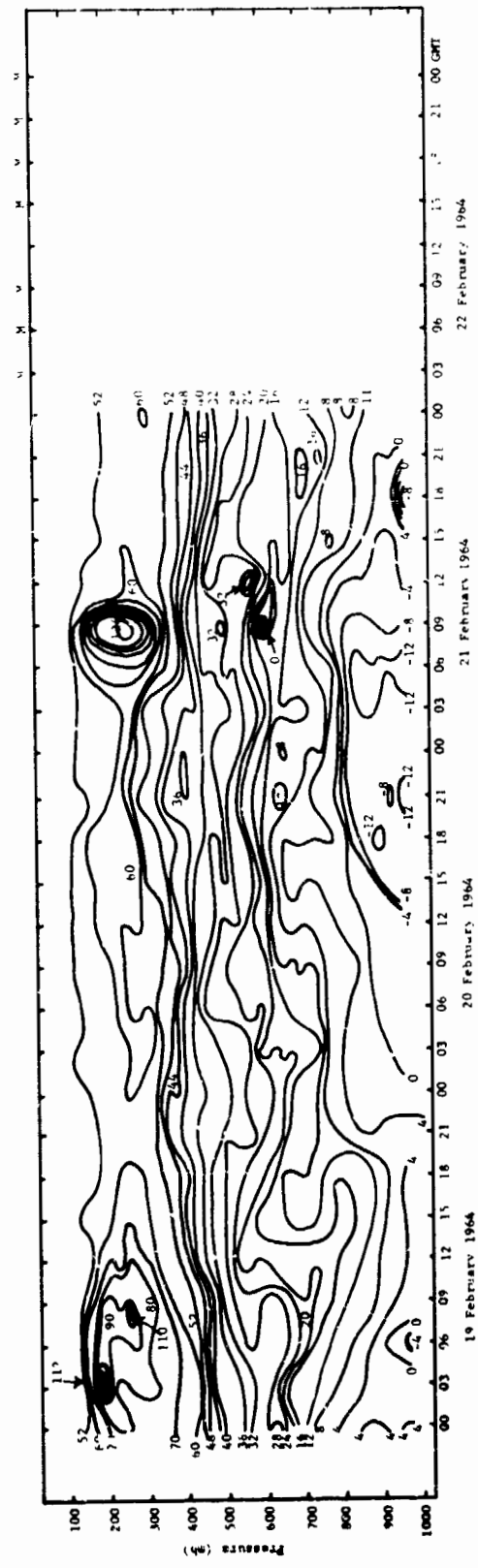
Potential Temperature (K) for San Antonio, Texas, Station Number 33008



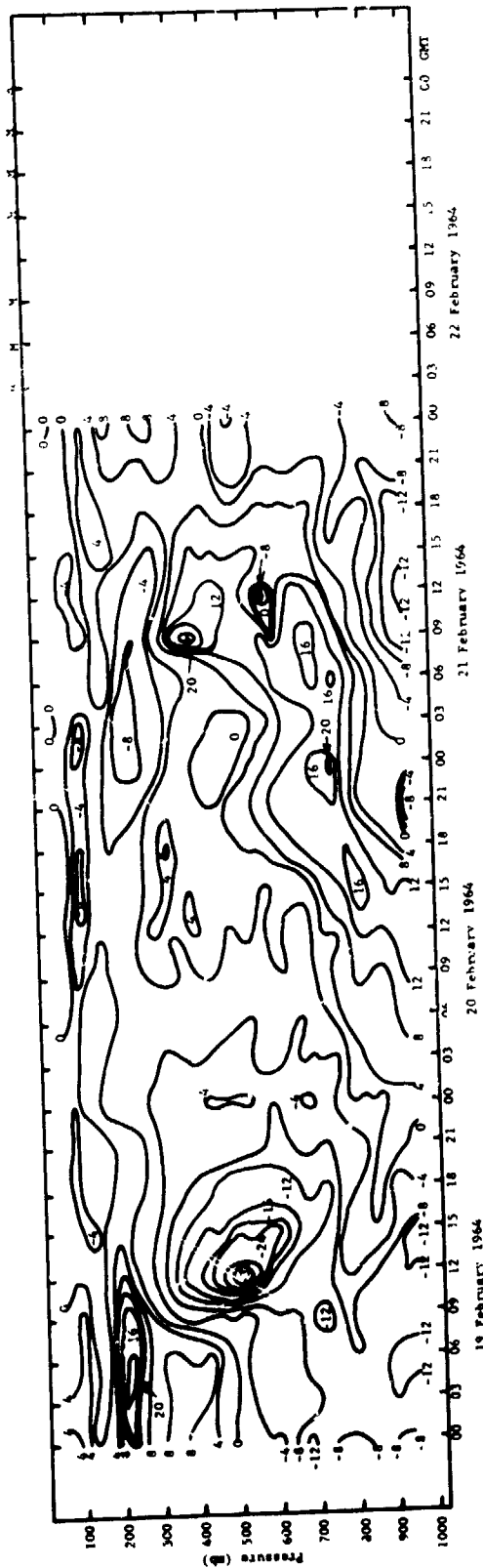
Temperature (C) for San Antonio, Texas, Station Number 33008



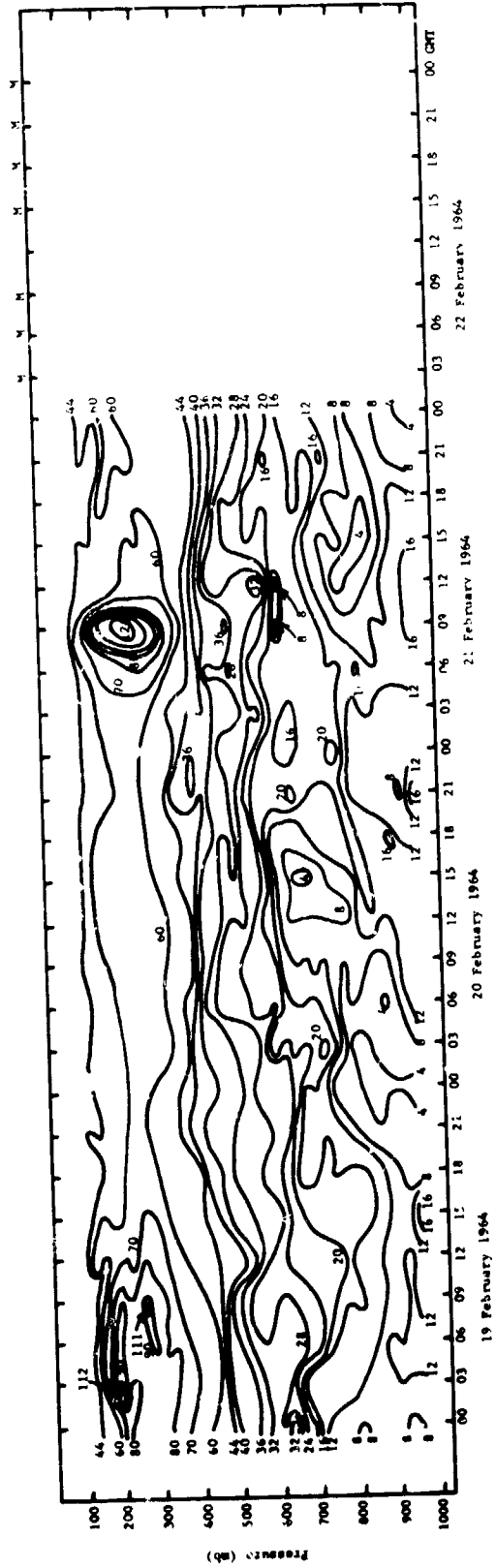
Dewpoint Temperature (°C) for San Antonio, Texas, Station Number 33008



Zonal Wind Component (m/sec) for San Antonio, Texas, Station Number 33008

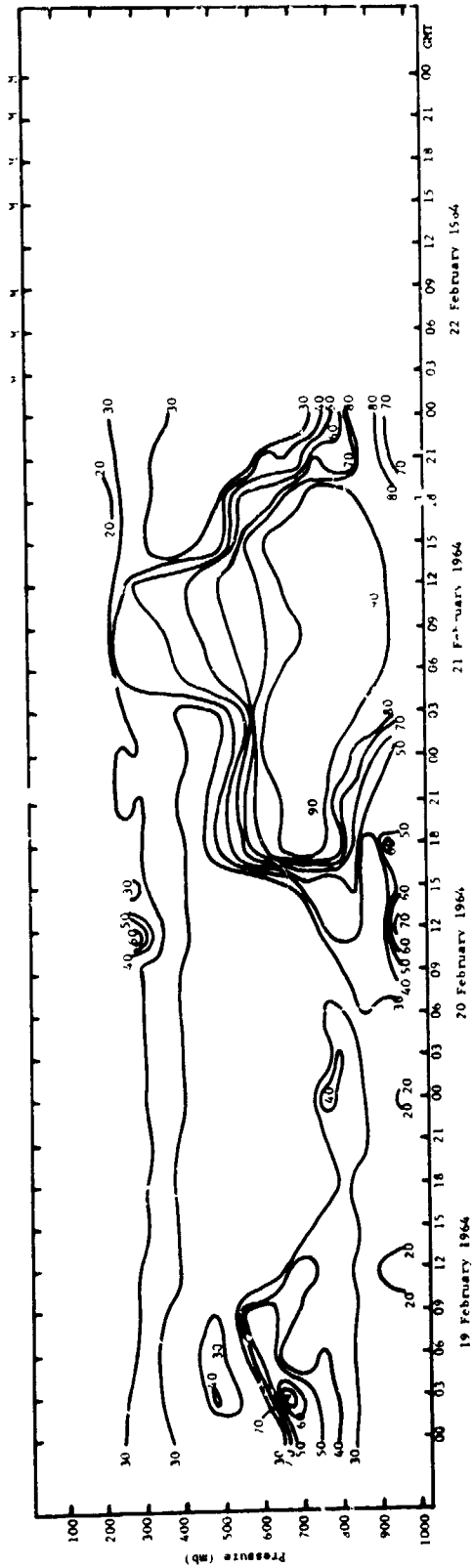


Meridional Wind Component (m/sec) for San Antonio, Texas, Station Number 33008

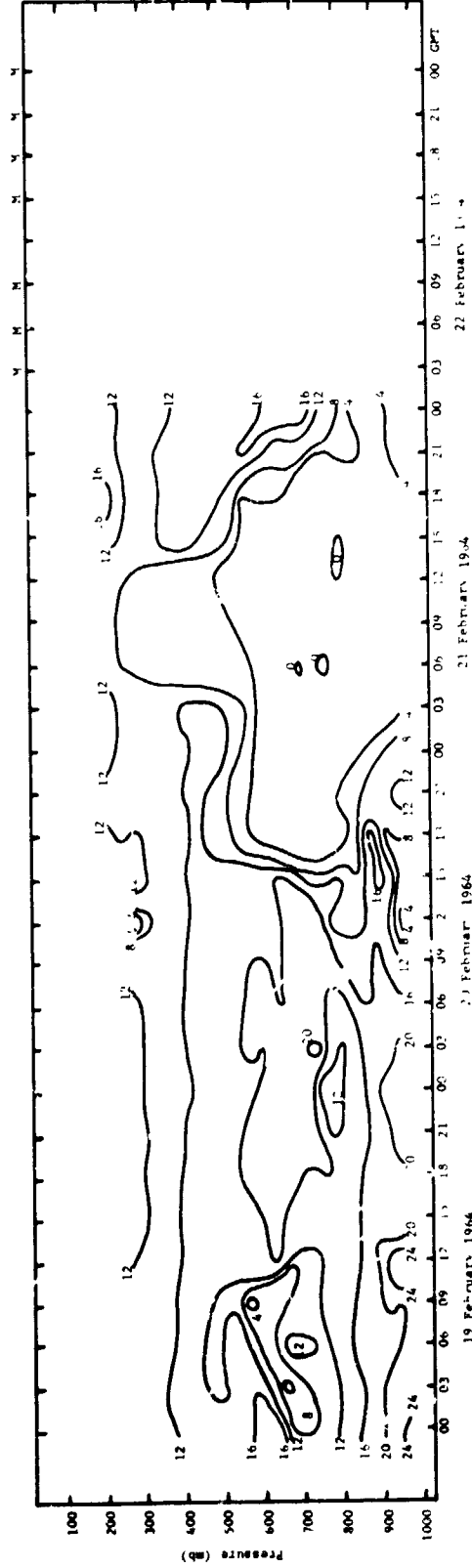


Wind Speed (m/sec) for San Antonio, Texas, Station Number 33008

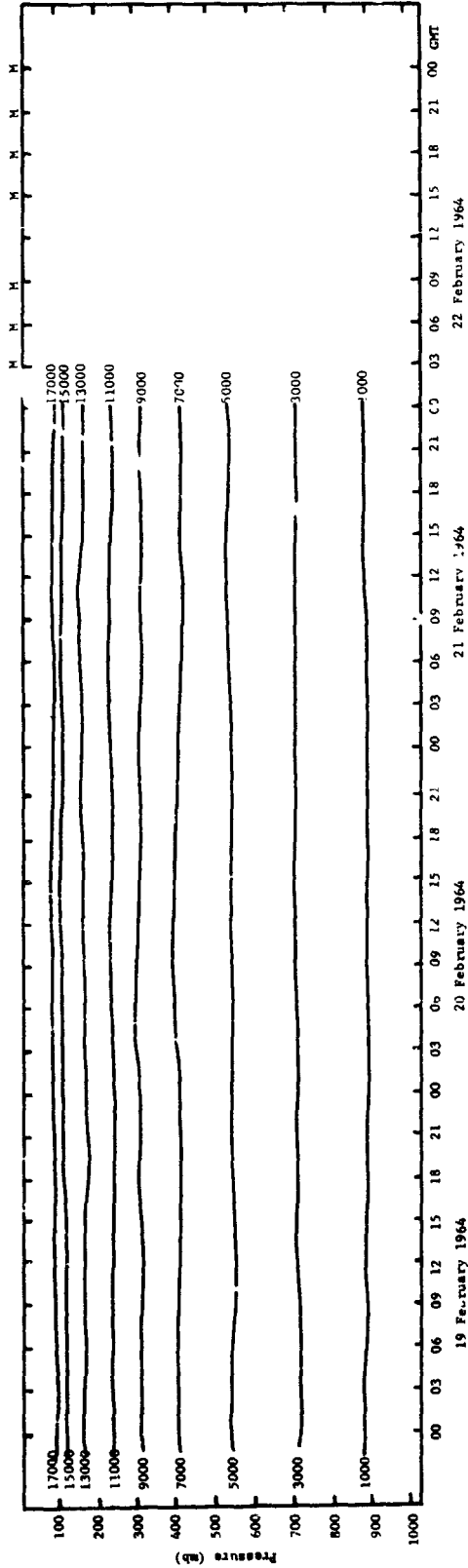
NOTE: Interval not constant



Relative Humidity (%) for San Antonio, Texas, Station Number 33008



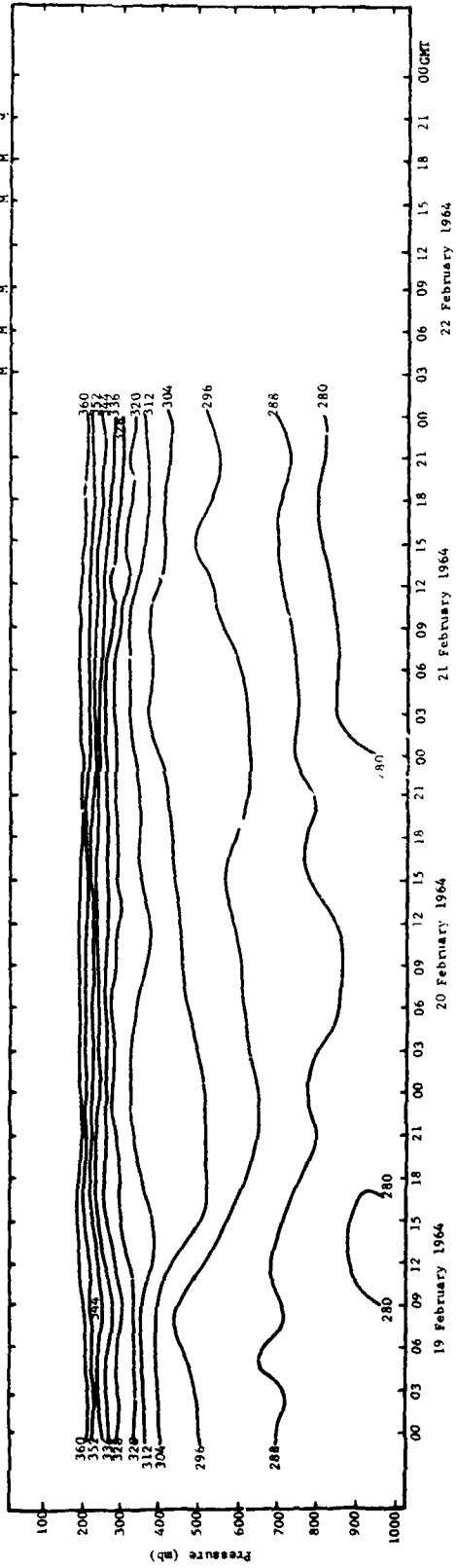
Dewpoint Depression (°C) for San Antonio, Texas, Station Number 33008



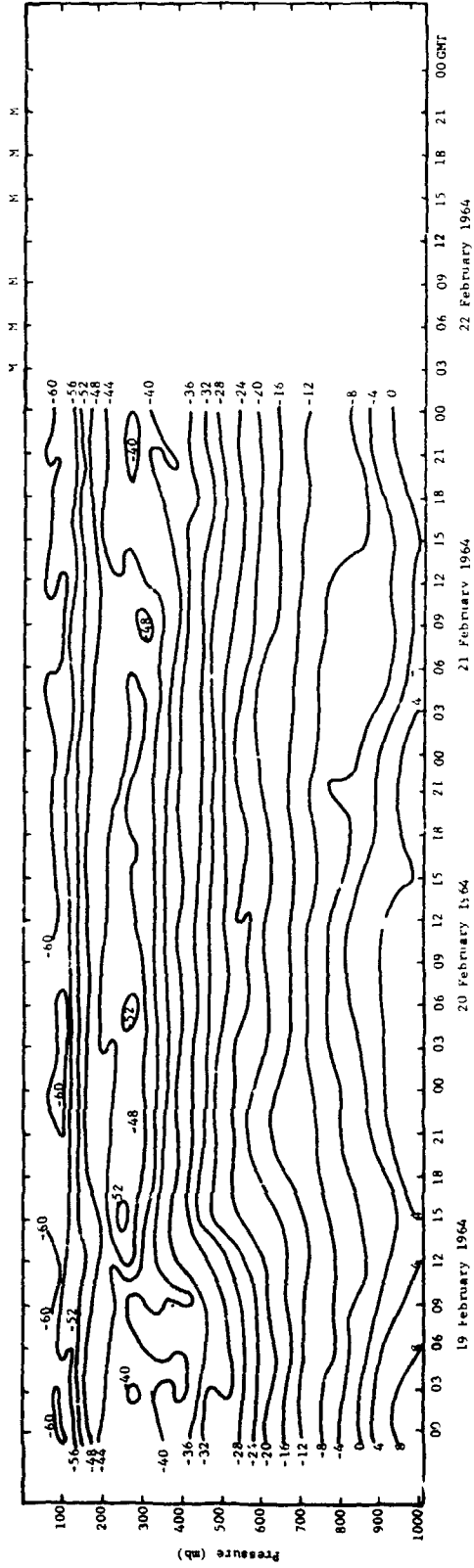
Height (gpm) for San Antonio, Texas, Station Number 33008

Station Number 33009

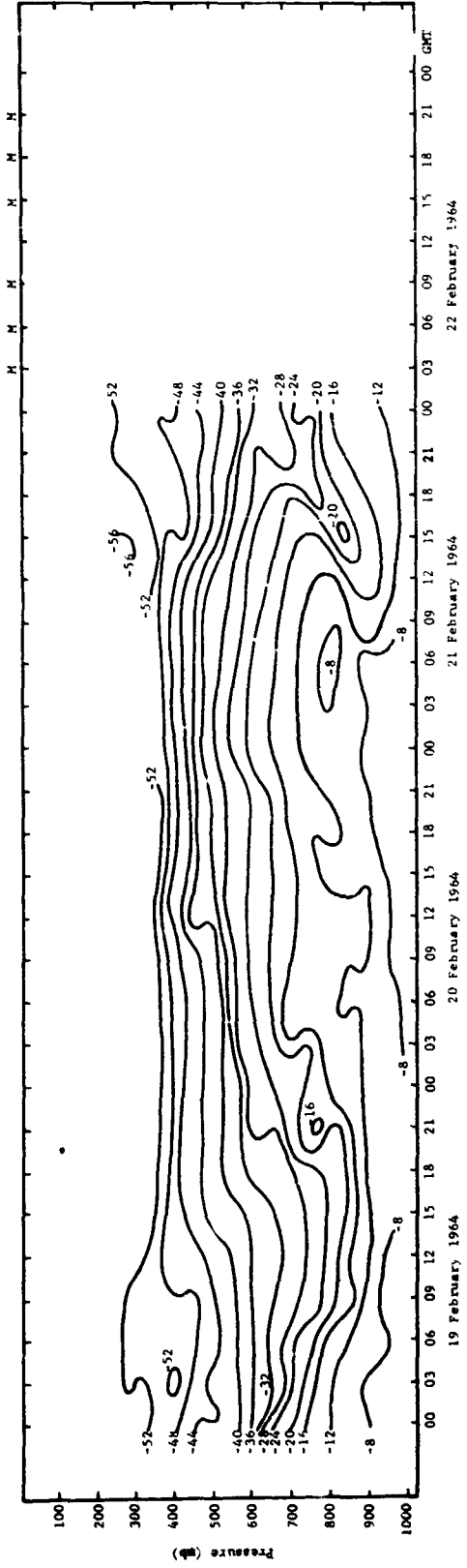
Fort Worth, Texas



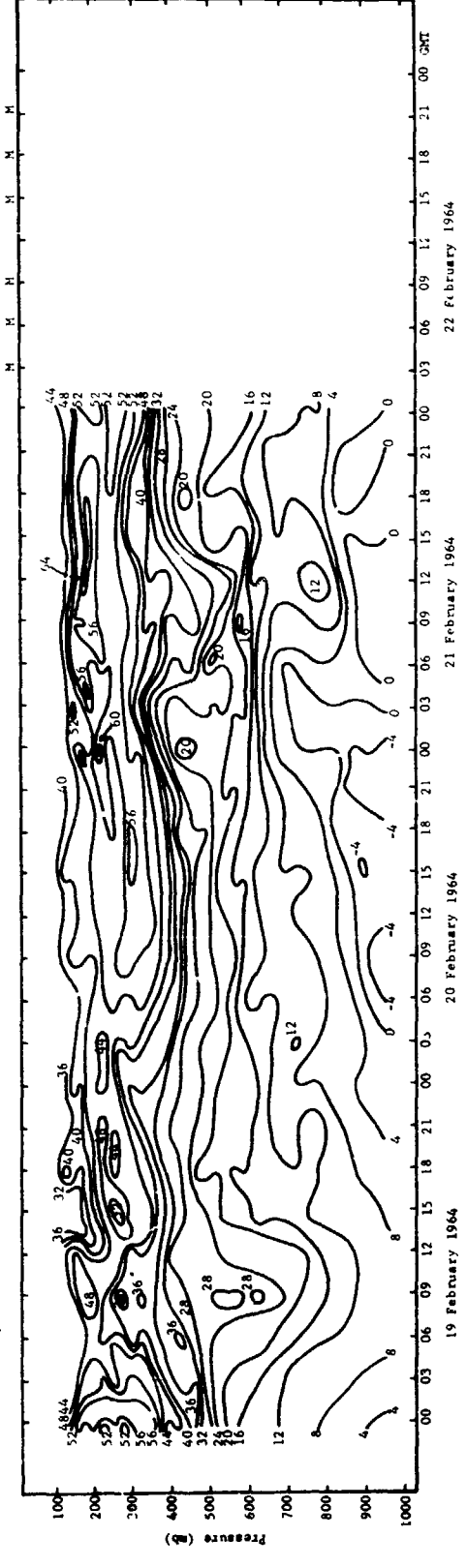
Potential Temperature (K) for Fort Worth, Texas, Station Number 33009



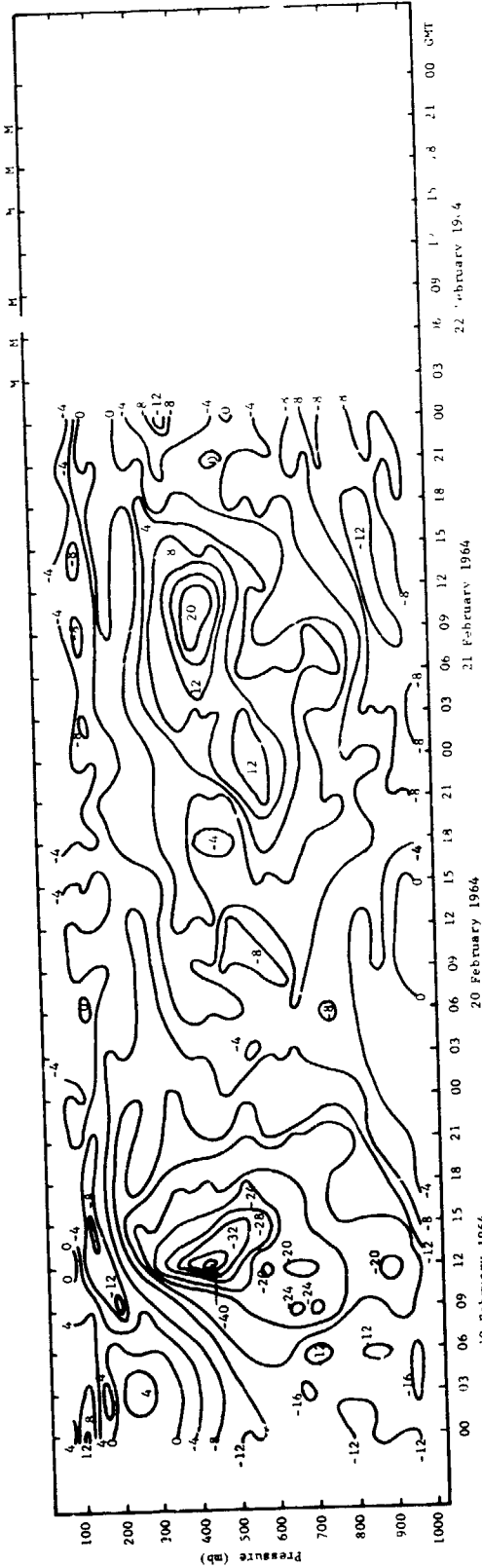
Temperature (C) for Fort Worth, Texas, Station Number 33009



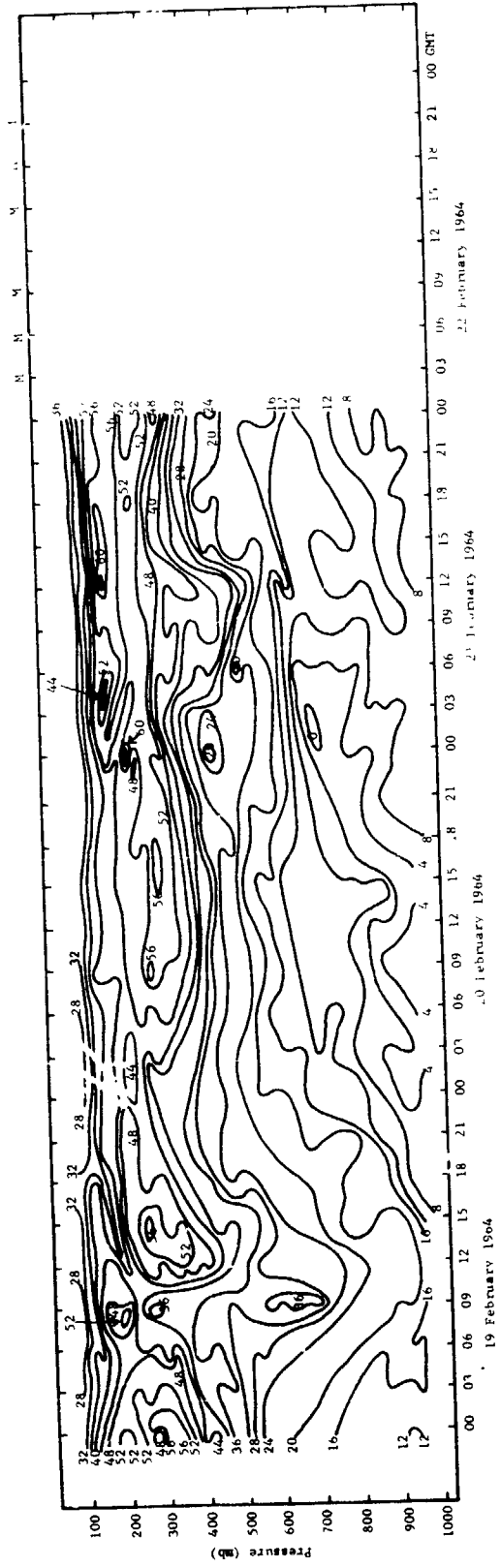
Dewpoint Temperature (°C) for Fort Worth, Texas, Station Number 33009



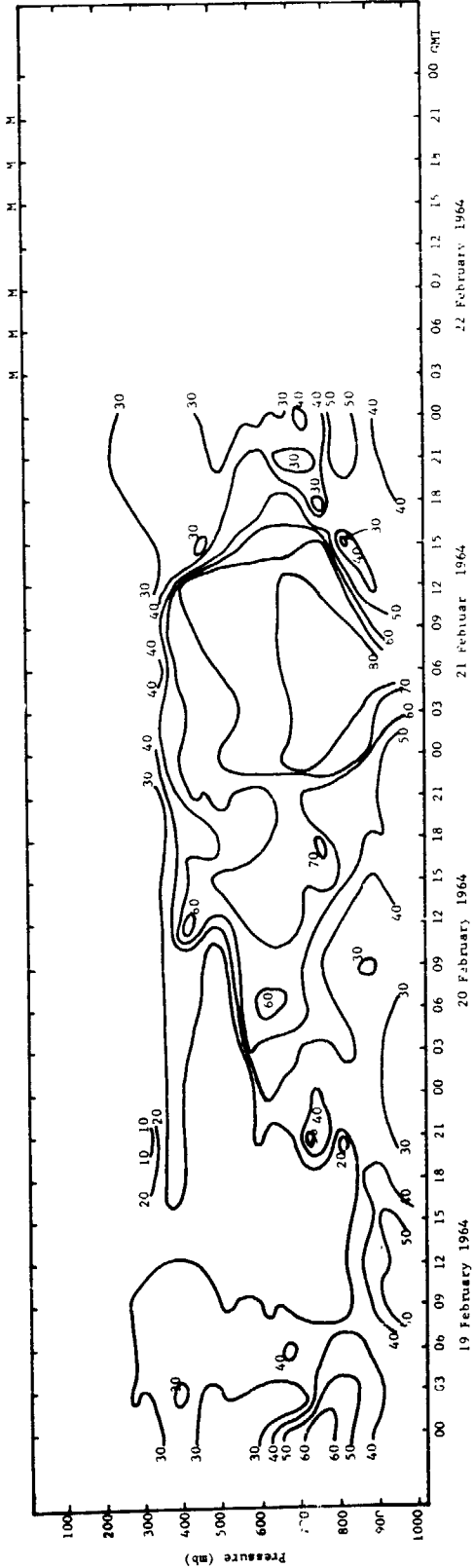
Zonal Wind Component (m/sec) for Fort Worth, Texas, Station Number 33009



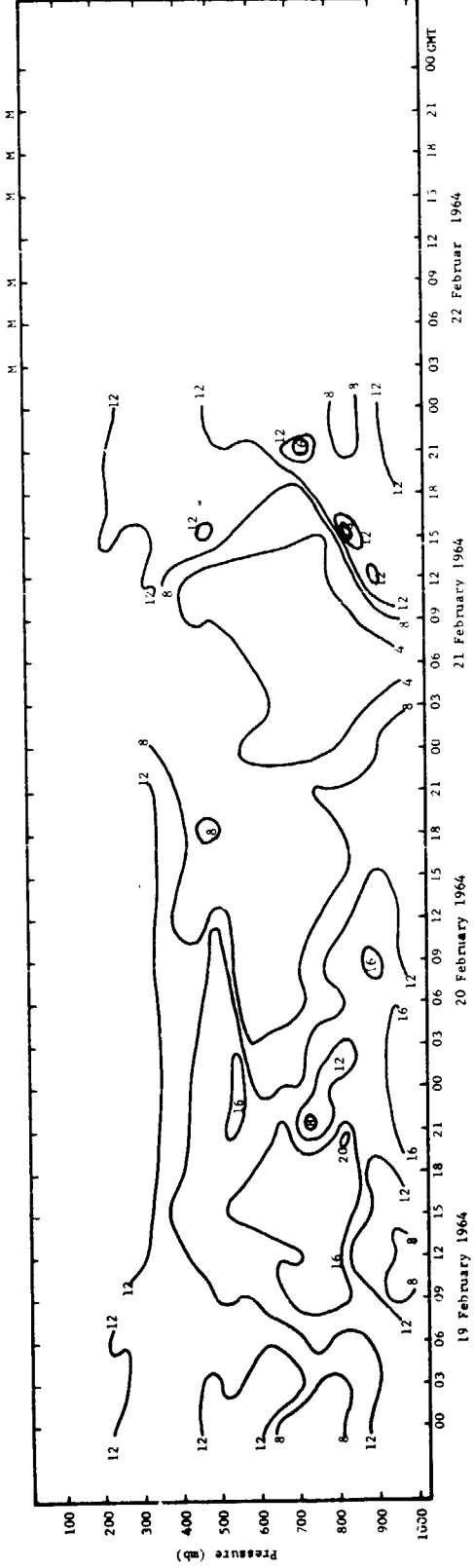
Meridional Wind Component (m/sec) for Fort Worth, Texas, Station Number 33009



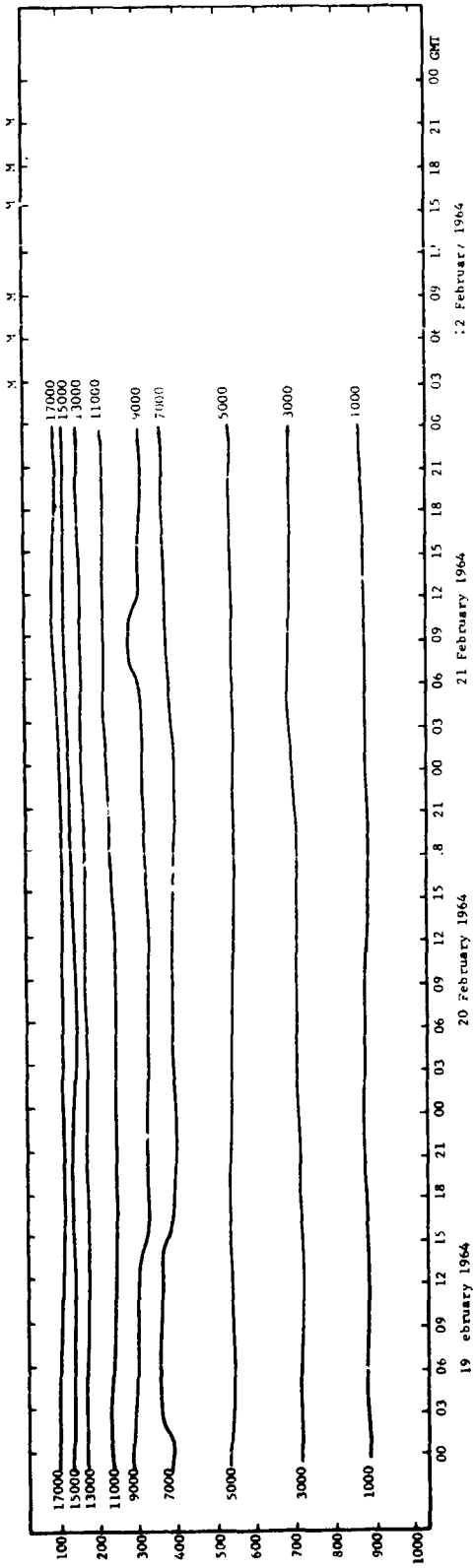
Wind Speed (m/sec) for Fort Worth, Texas, Station Number 33009



Relative Humidity (%) for Fort Worth, Texas, Station Number 33009

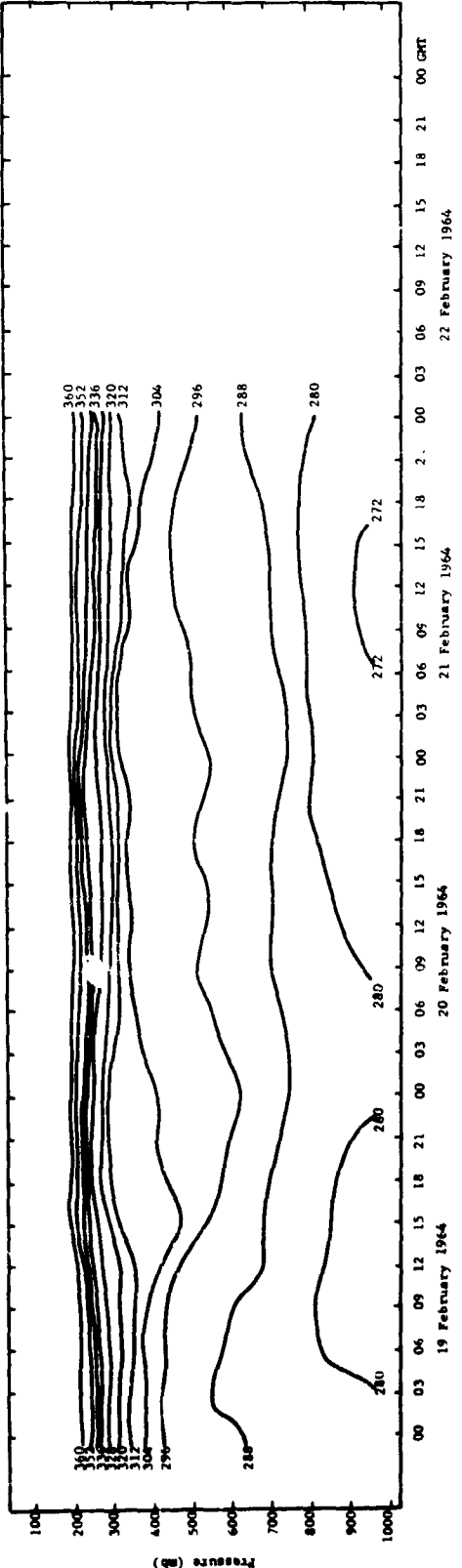


Dewpoint Depression (°C) for Fort Worth, Texas, Station Number 33009

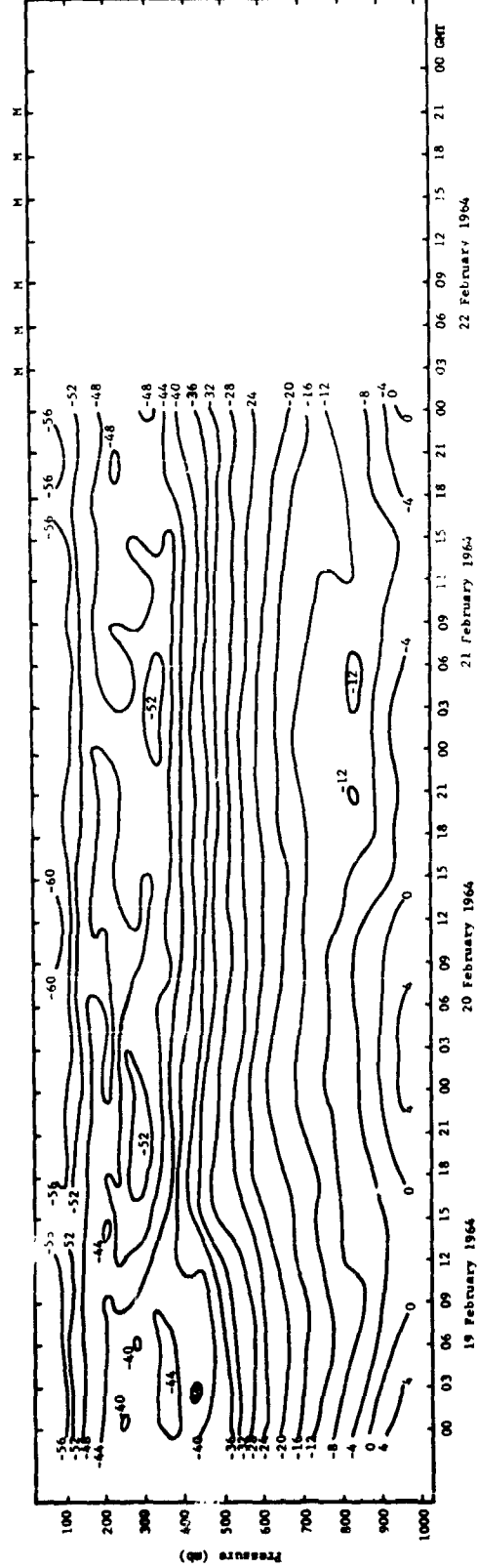


Height (gpm) for Fort Worth, Texas, Station Number 33009

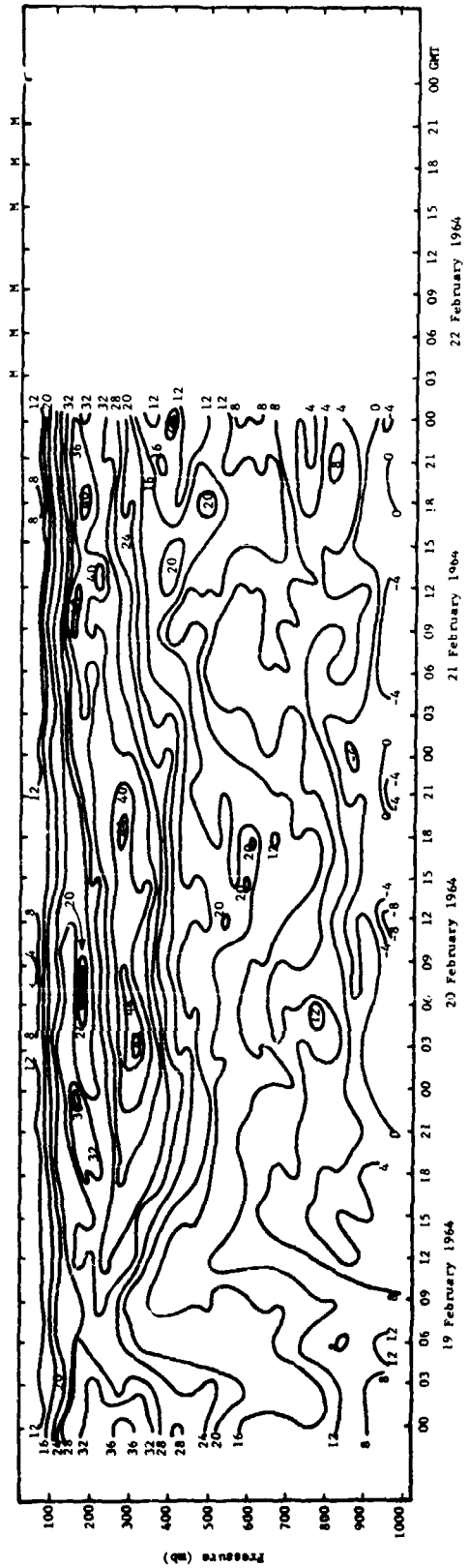
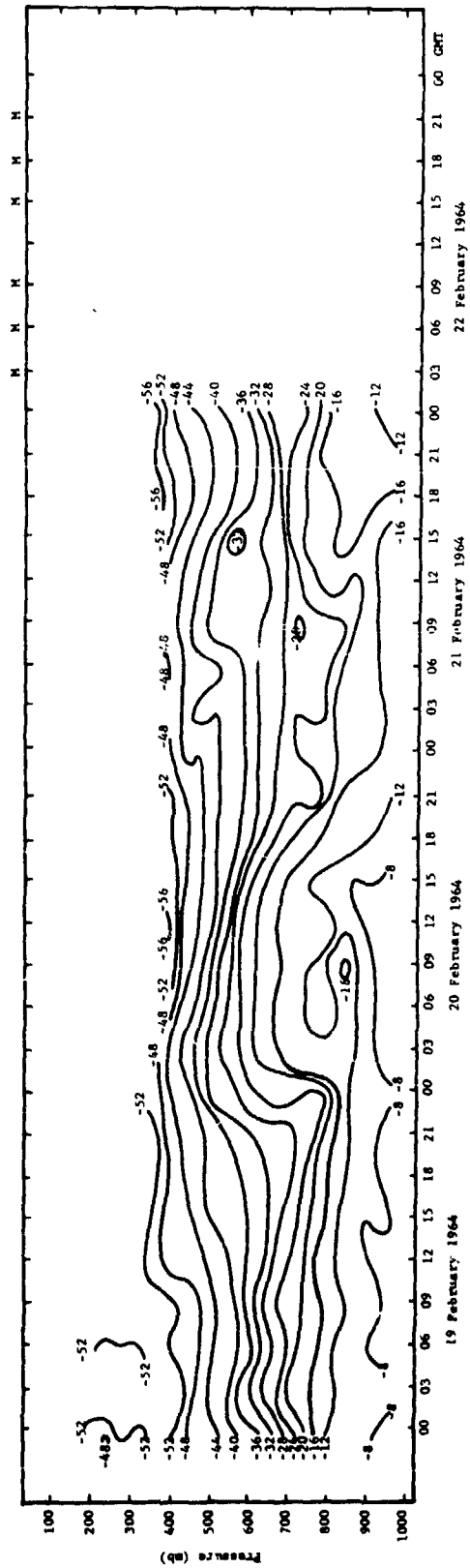
Station Number 33010
Oklahoma City, Oklahoma

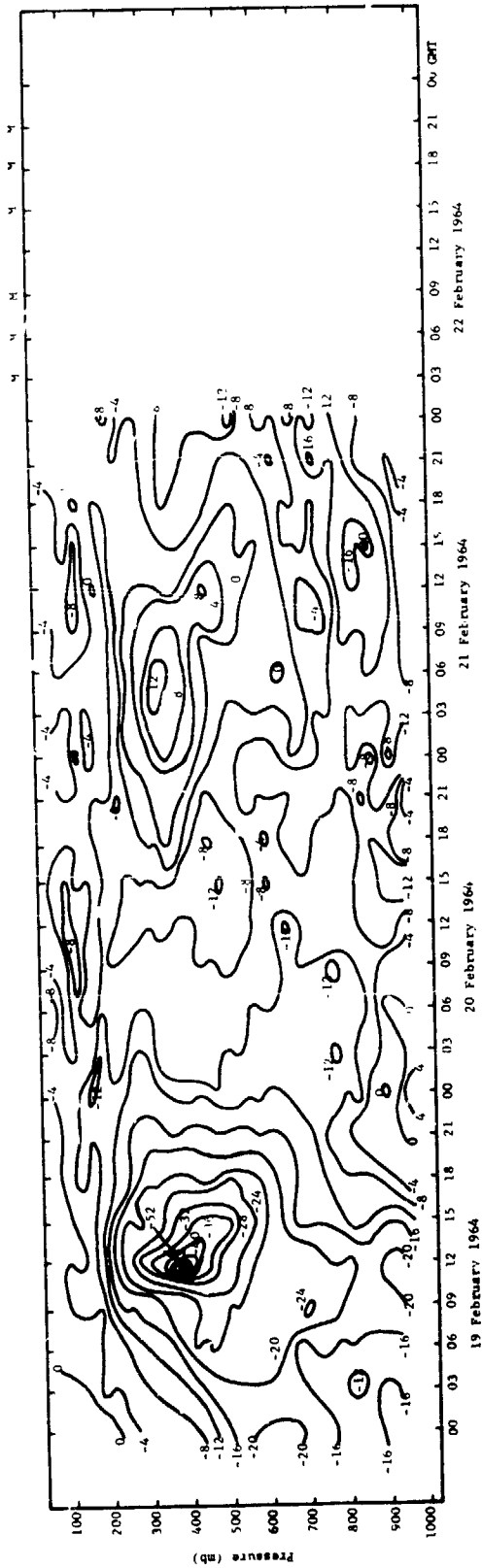


Potential Temperature (K) for Oklahoma City, Oklahoma, Station Number 33010

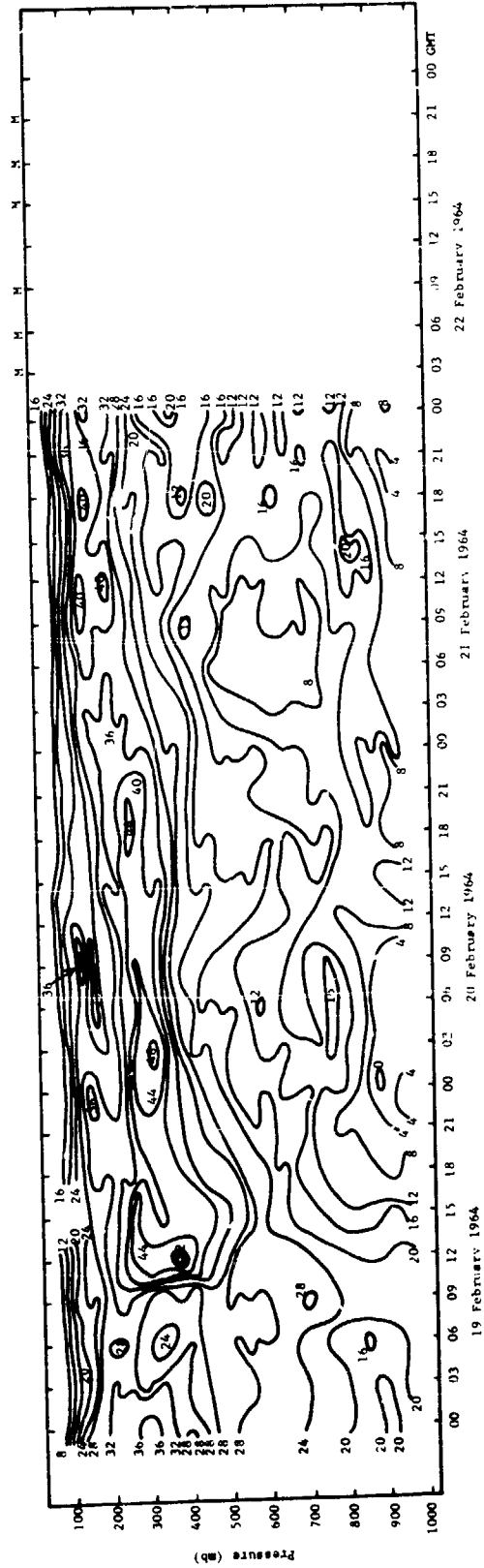


Temperature (C) for Oklahoma City, Oklahoma, Station Number 33010

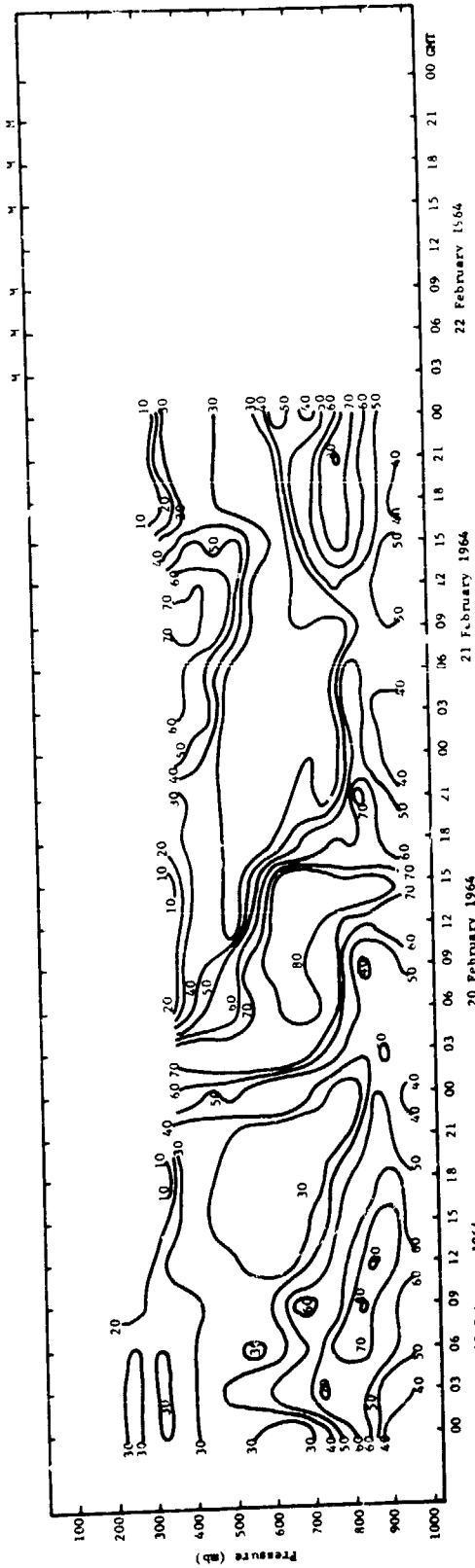




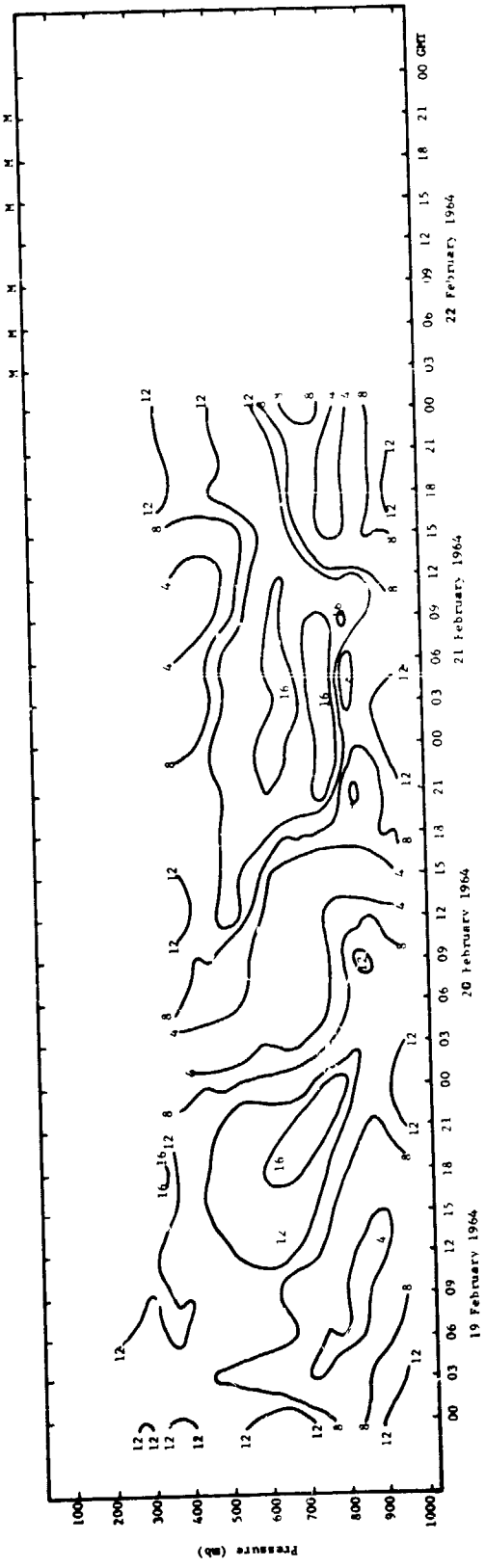
Meridional Wind Component (m/sec) for Oklahoma City, Oklahoma, Station Number 33010



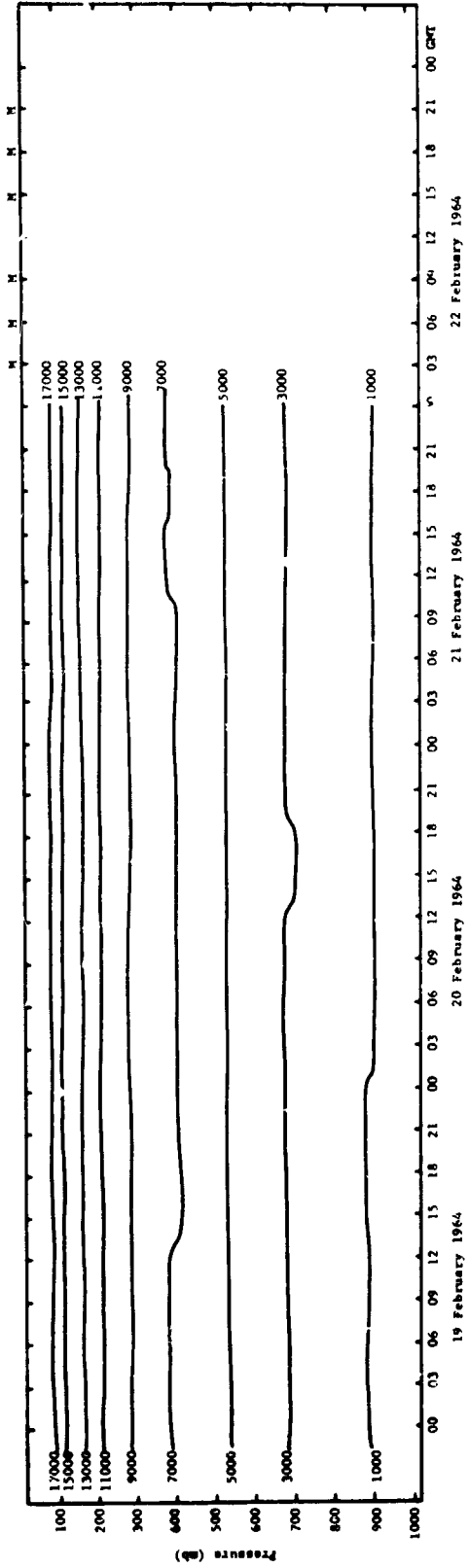
Wind Speed (m/sec) for Oklahoma City, Oklahoma, Station Number 33010



Relative Humidity (%) for Oklahoma City, Oklahoma, Station Number 33010



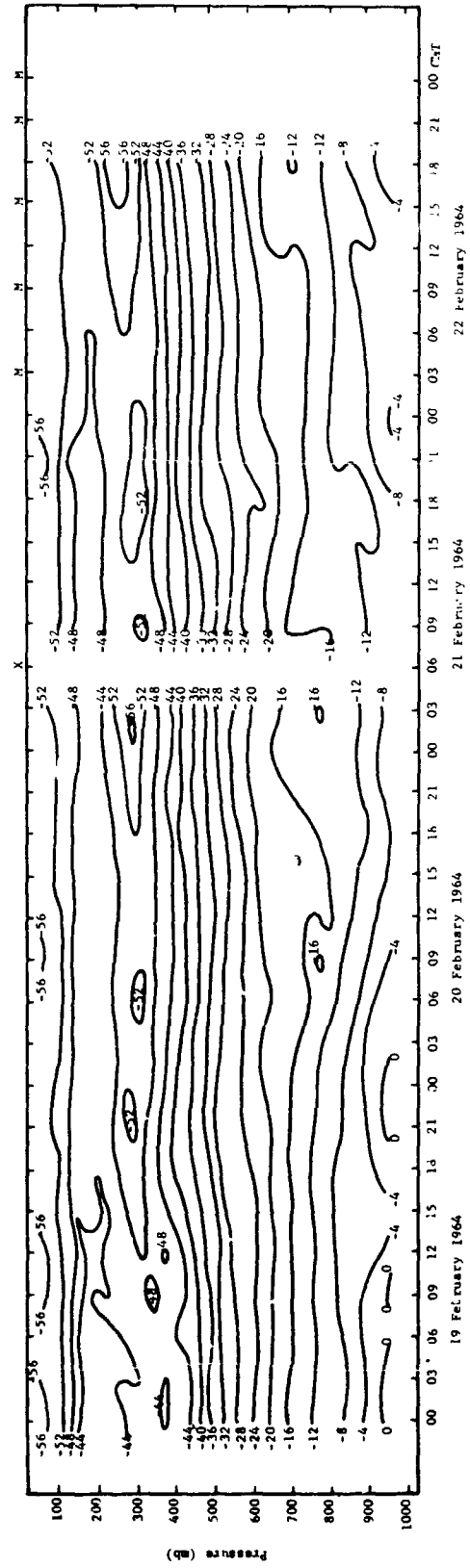
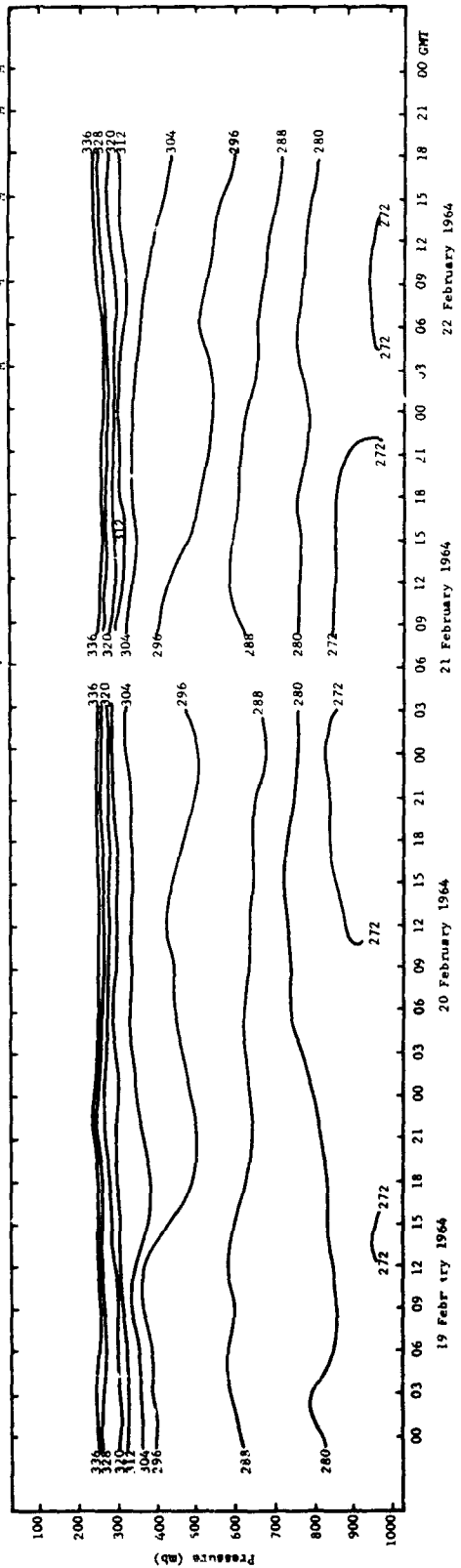
Dewpoint Depression (°C) for Oklahoma City, Oklahoma, Station Number 33010

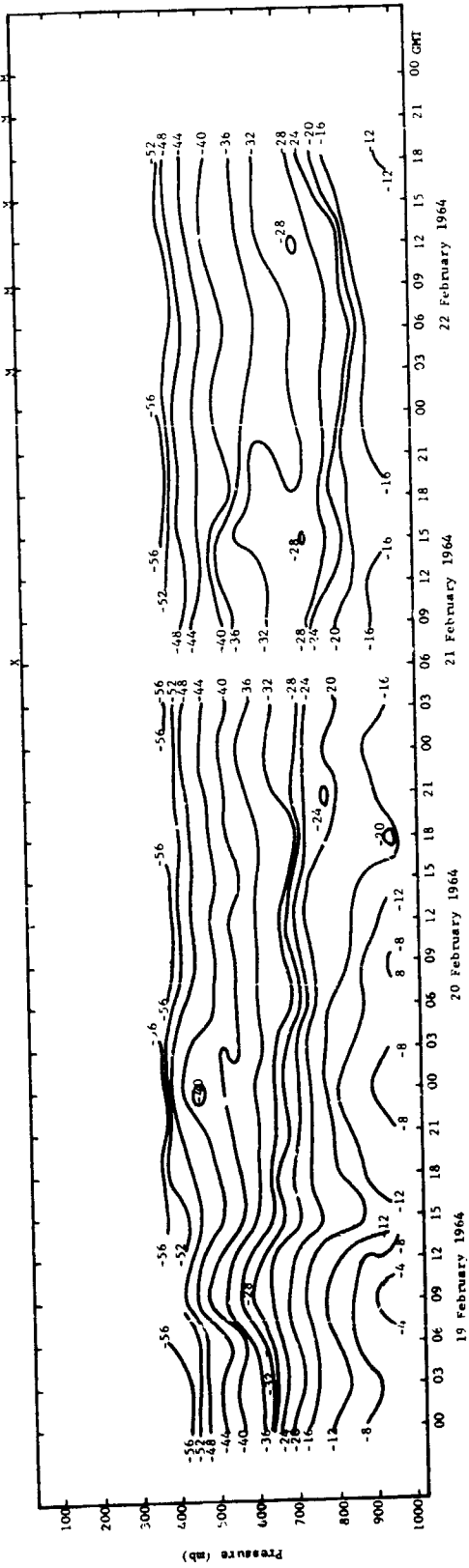


Height (gpm) for Oklahoma City, Oklahoma, Station Number 33010

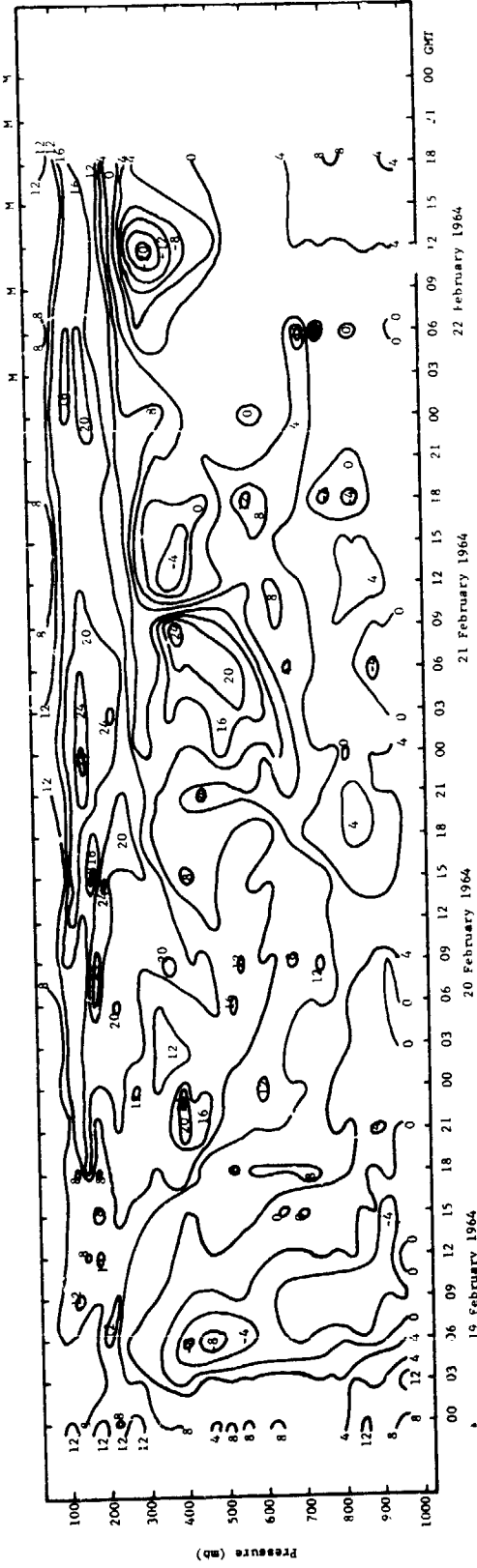
Station Number 33011

Topeka, Kansas

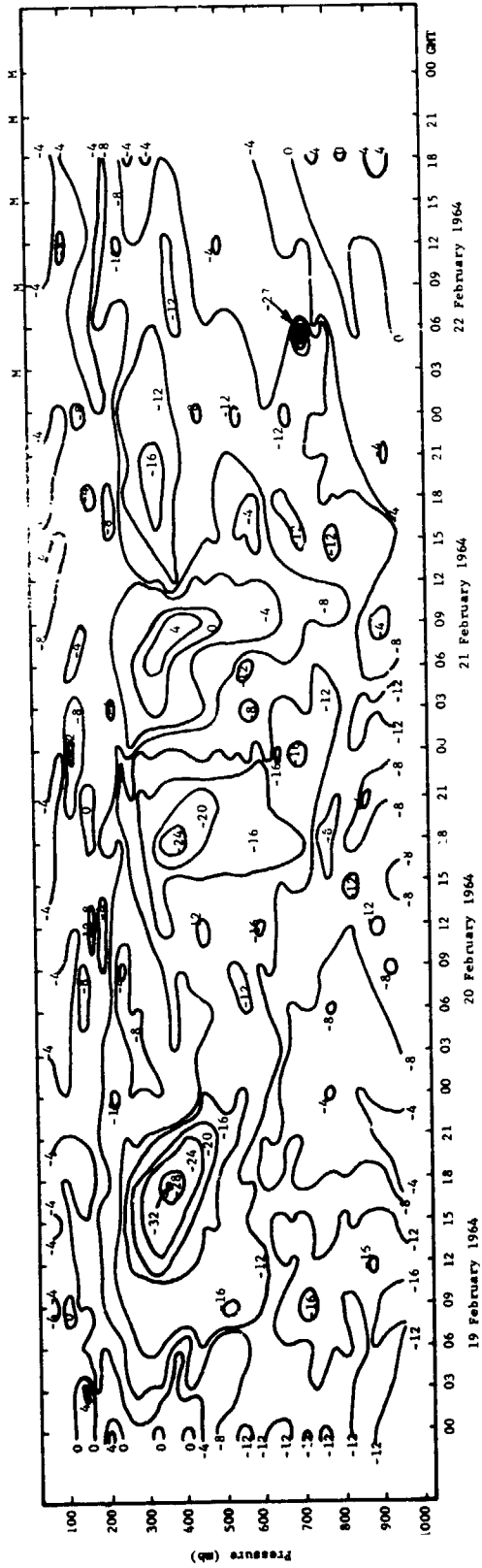




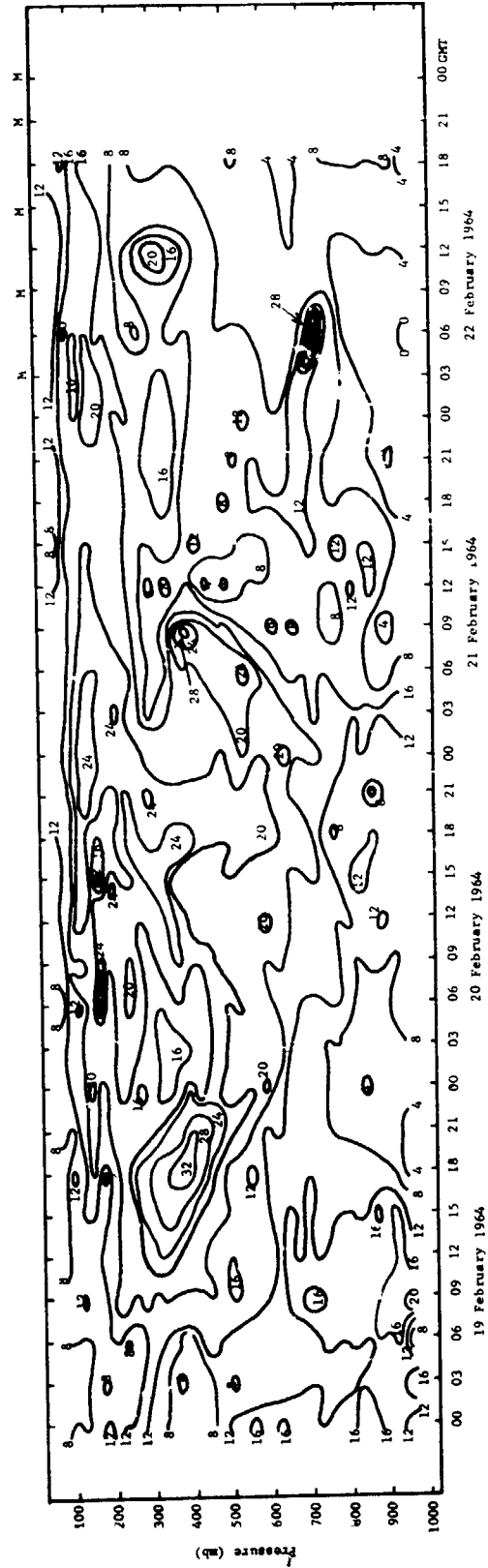
Dewpoint Temperature (°C) for Topeka, Kansas, Station Number 33011



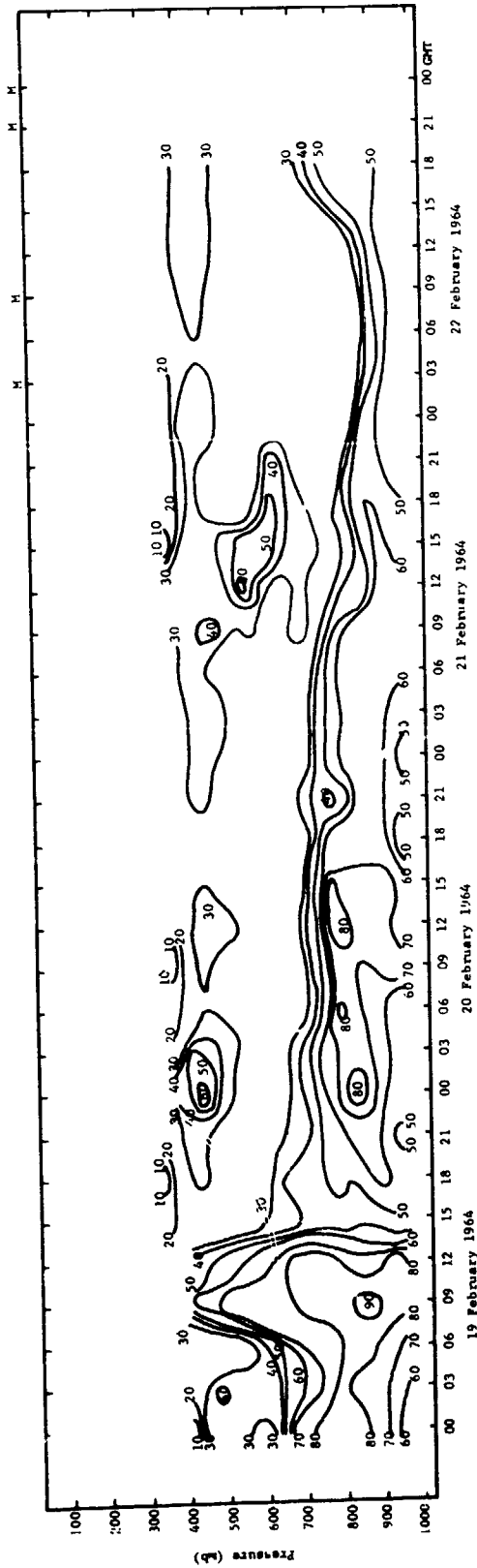
Zonal Wind Component (m/sec) for Topeka, Kansas, Station Number 33011



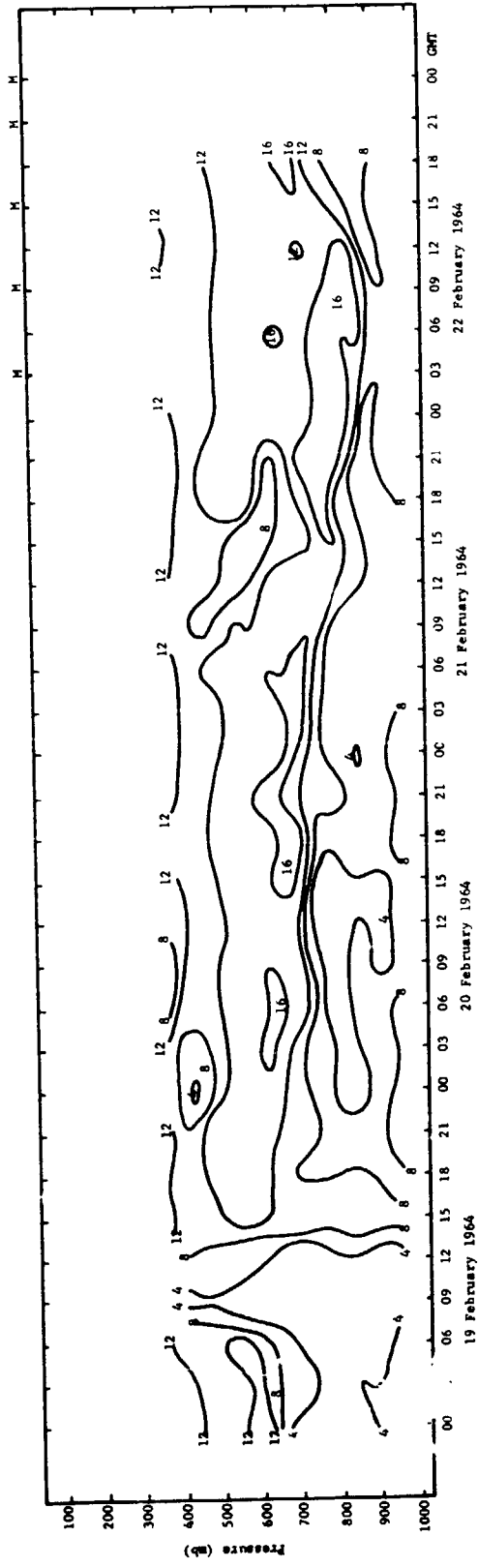
Meridional Wind Component (m/sec) for Topeka, Kansas, Station Number 33011



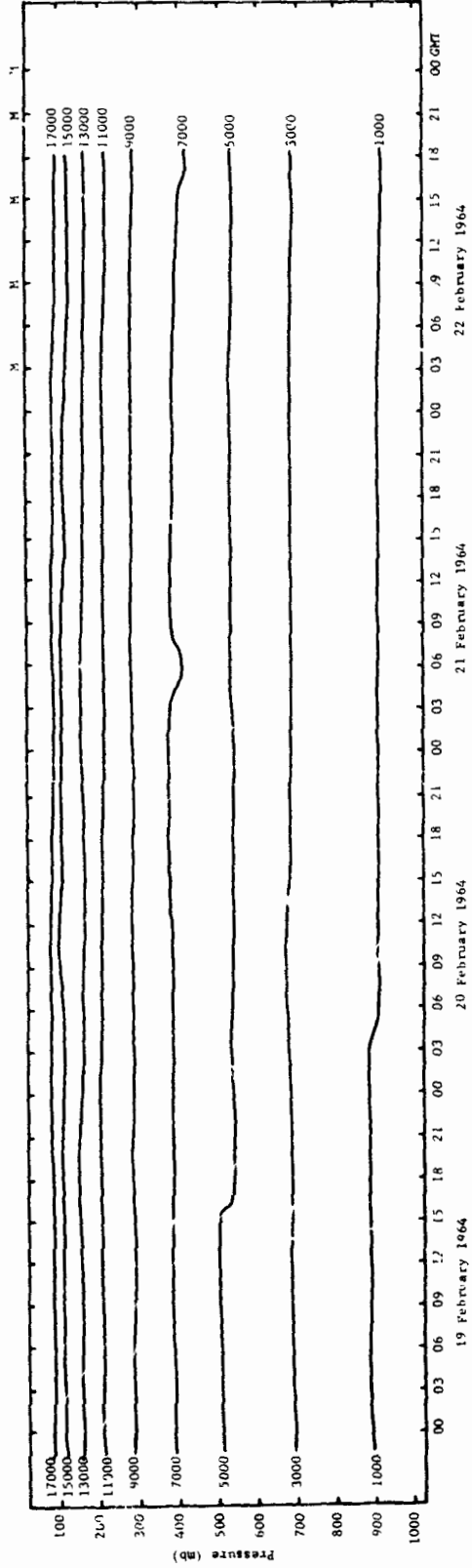
Wind Speed (m/sec) for Topeka, Kansas, Station Number 33011



Relative Humidity (%) for Topeka, Kansas, Station Number 33011



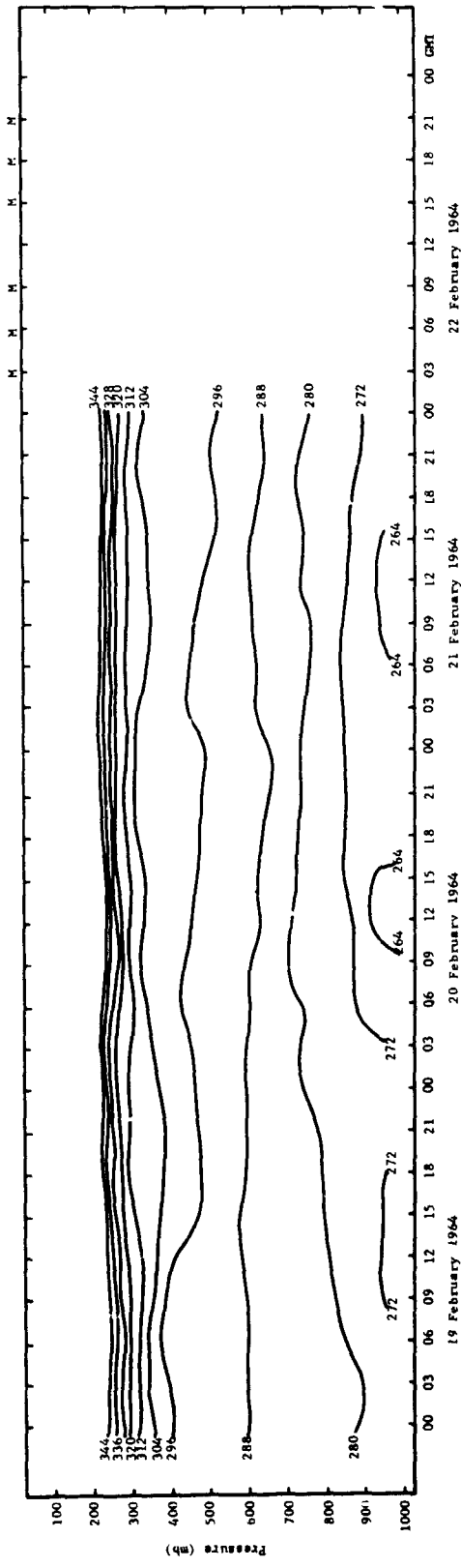
Dewpoint Depression (°C) for Topeka, Kansas, Station Number 33011



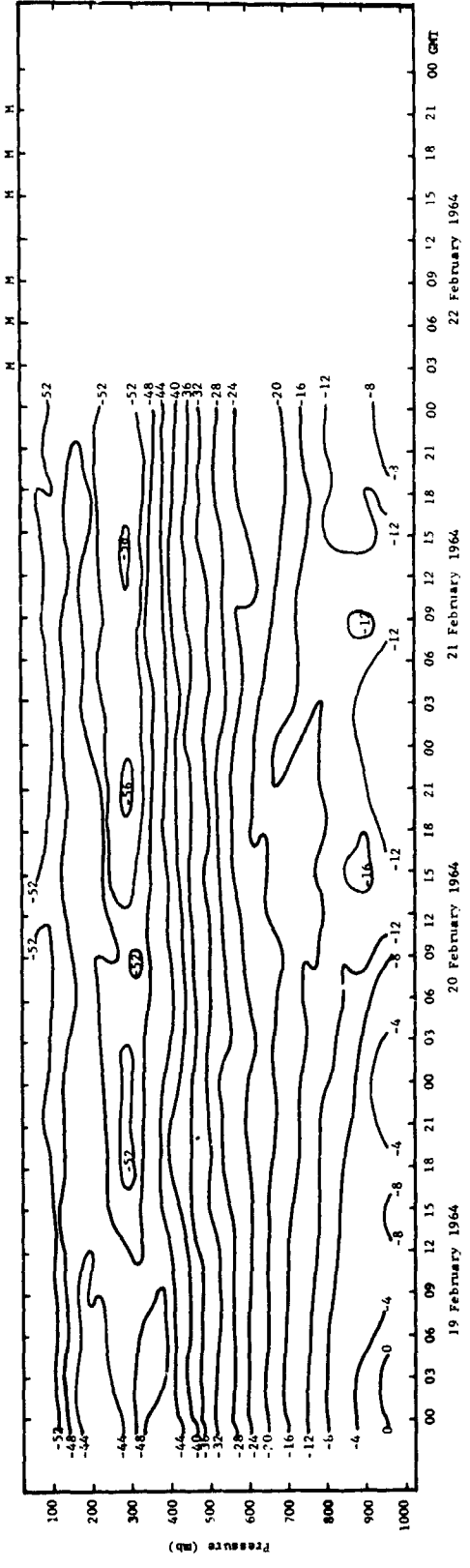
Height (gpm) for Topeka, Kansas, Station Number 33011

Station Number 33012

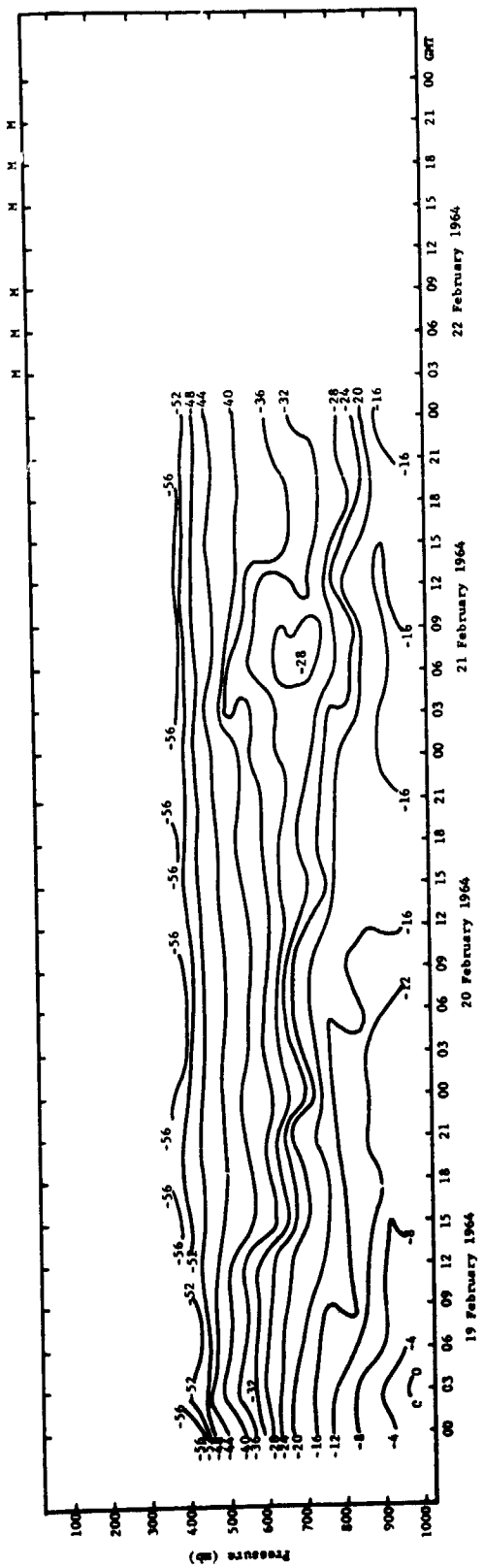
Omaha, Nebraska



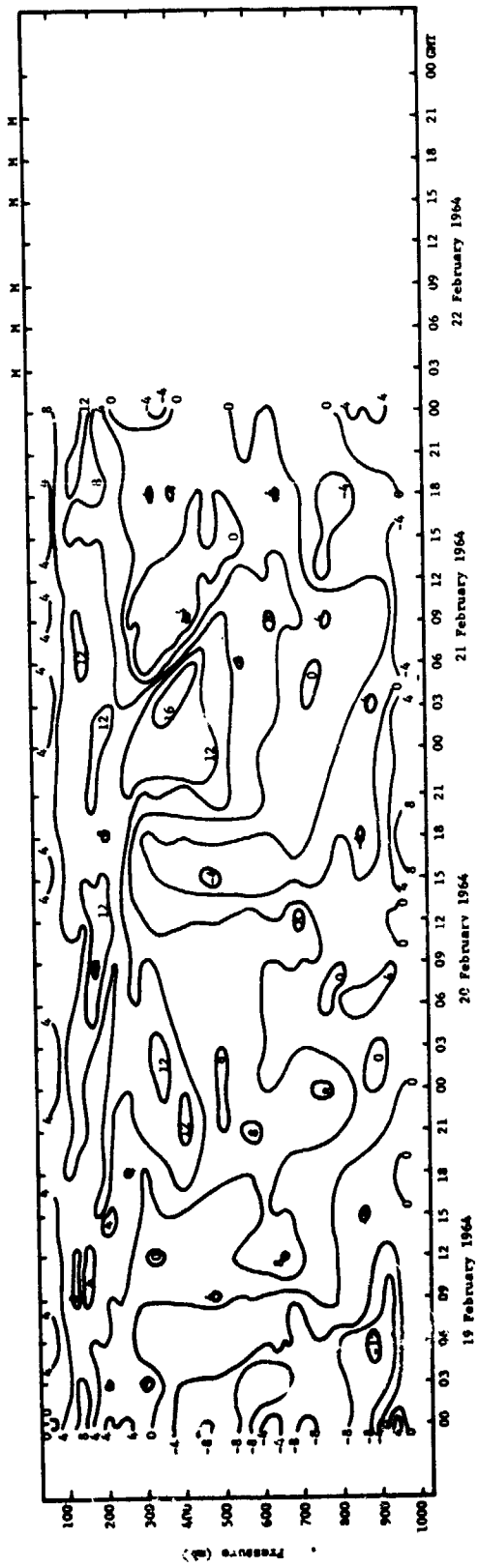
Potential Temperature (K) for Omaha, Nebraska, Station Number 33012



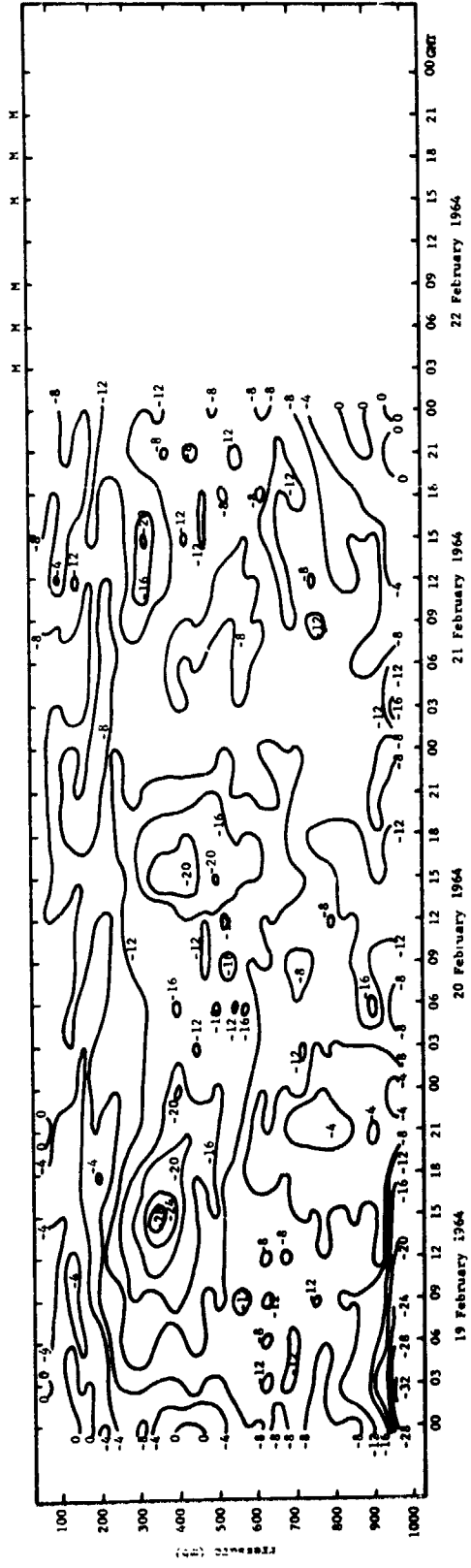
Temperature (C) for Omaha, Nebraska, Station Number 33012



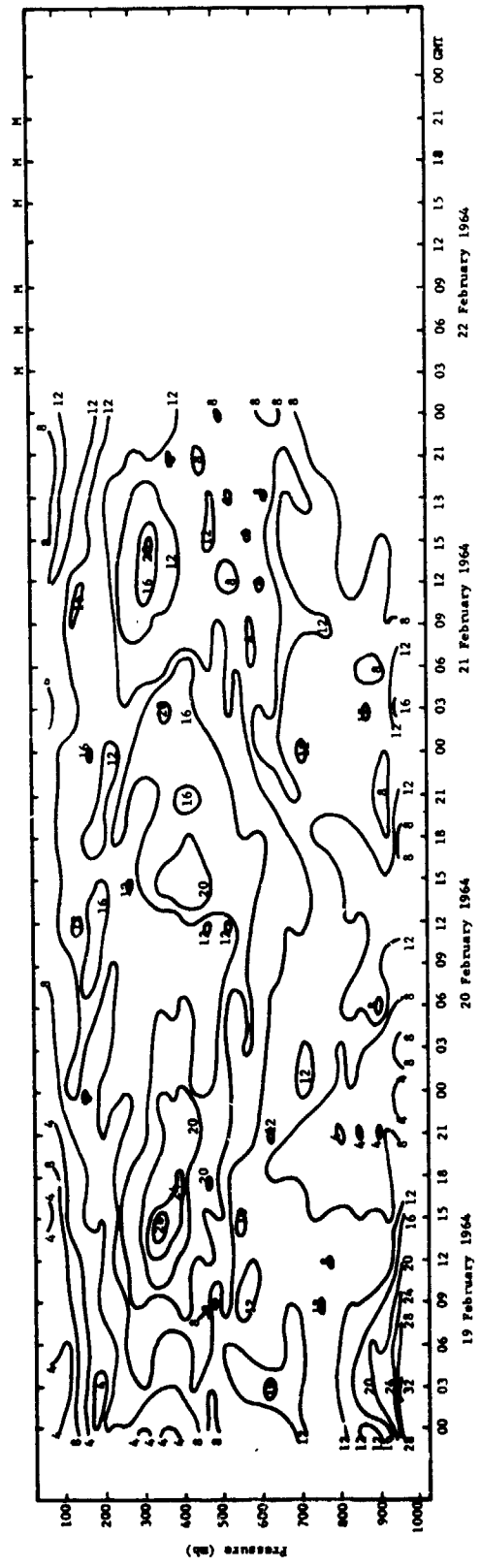
Dewpoint Temperature (°C) for Omaha, Nebraska, Station Number 33012



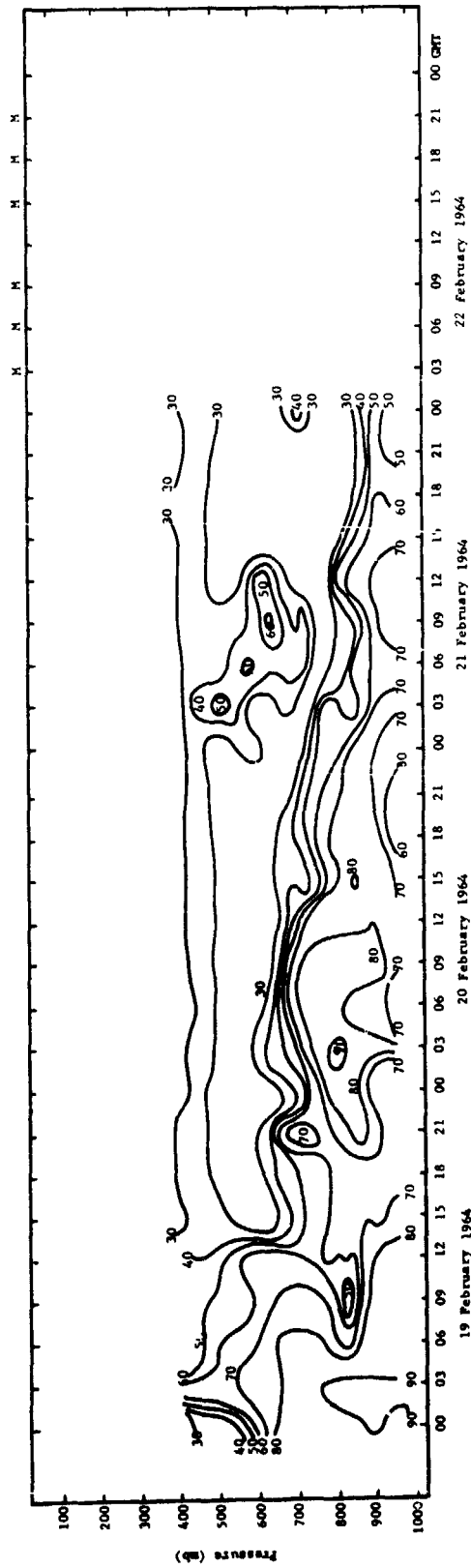
Zonal Wind Component (m/sec) for Omaha, Nebraska, Station Number 33012



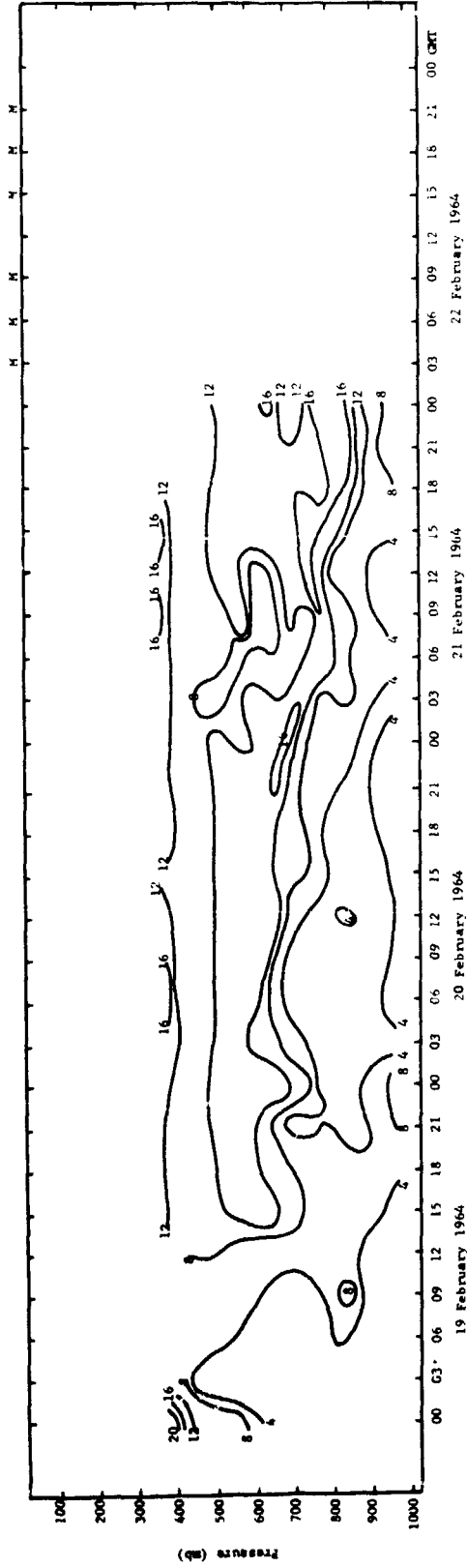
Meridional Wind Component (m/sec) for Omaha, Nebraska, Station Number 33012



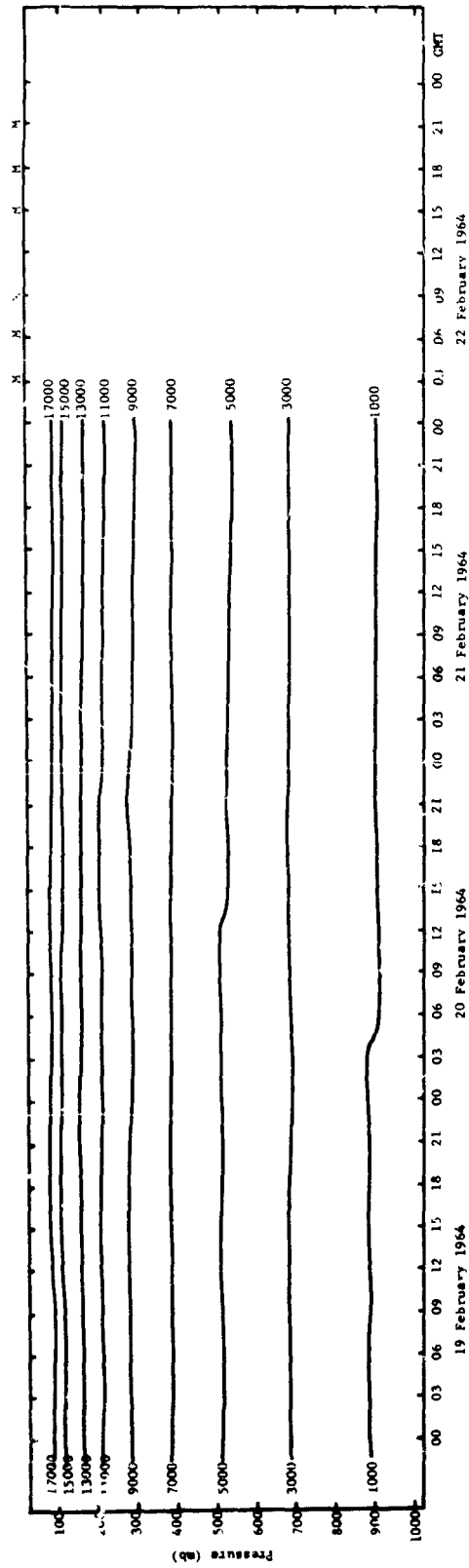
Wind Speed (m/sec) for Omaha, Nebraska, Station Number 33012



Relative Humidity (%) for Omaha, Nebraska, Station Number 33012



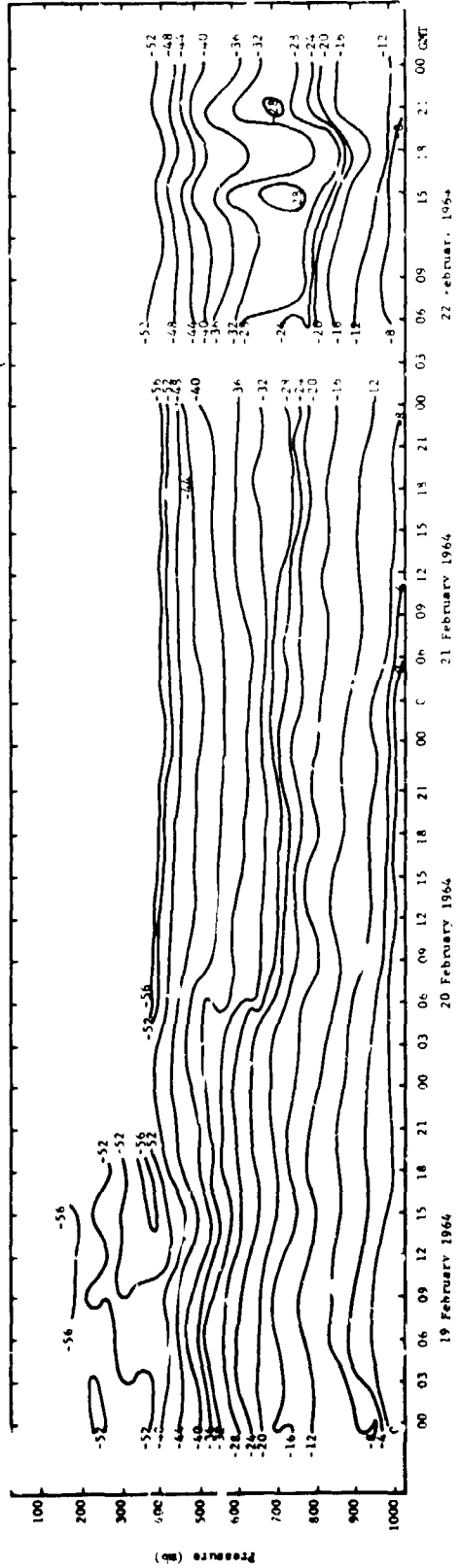
Dewpoint Depression (°C) for Omaha, Nebraska, Station Number 33012



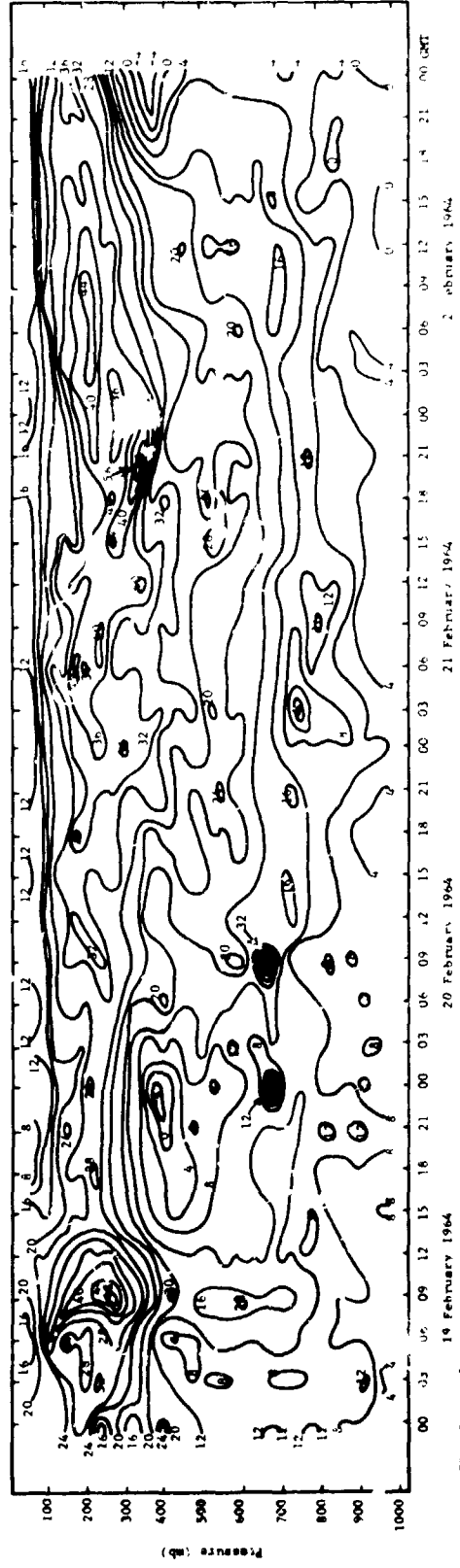
Height (gpm) for Omaha, Nebraska, Station Number 33012

Station Number 33013

Nashville, Tennessee

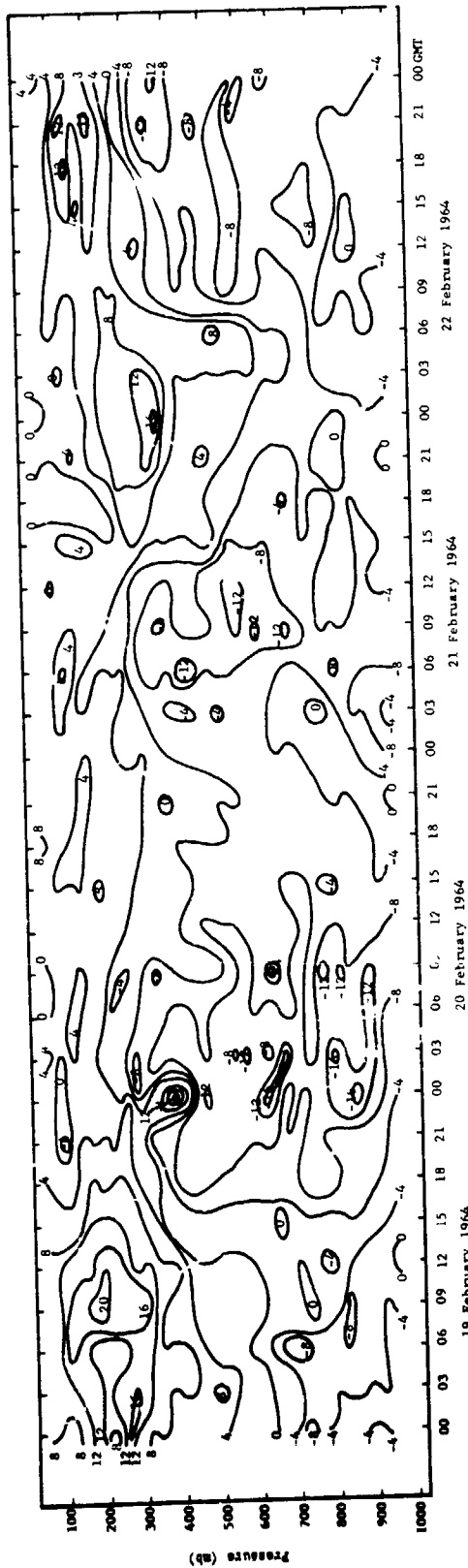


Dewpoint Temperature (°C) for Nashville, Tennessee, Station Number 33013

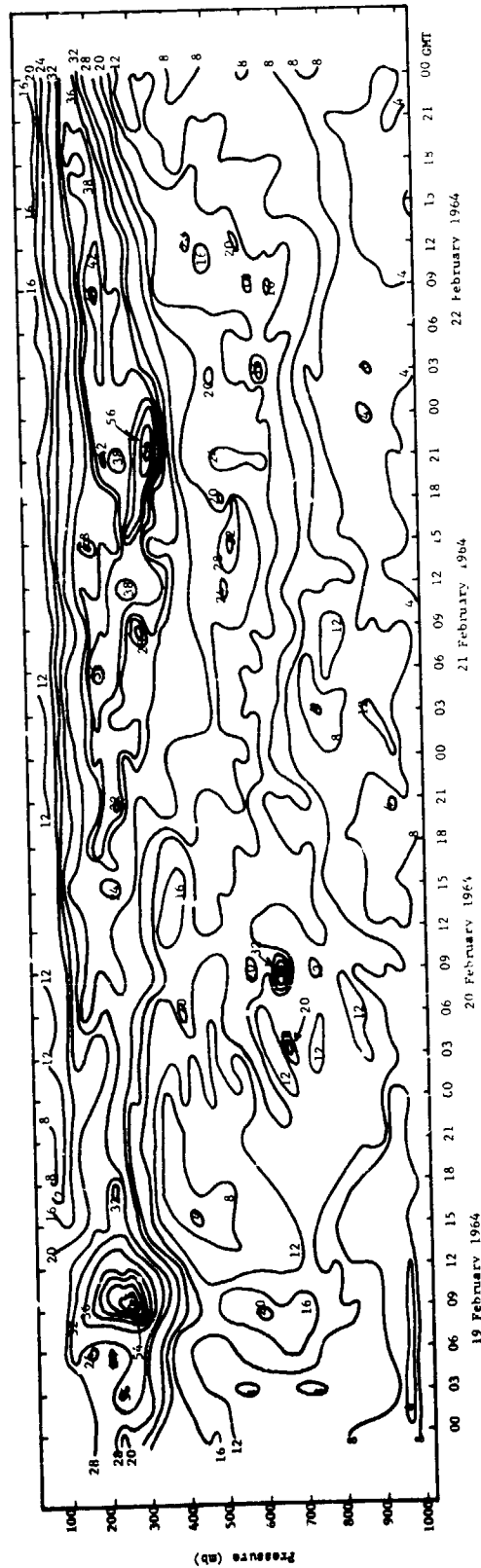


Zonal Wind Component (m/sec) for Nashville, Tennessee, Station Number 33013

NOTE: Interval not constant

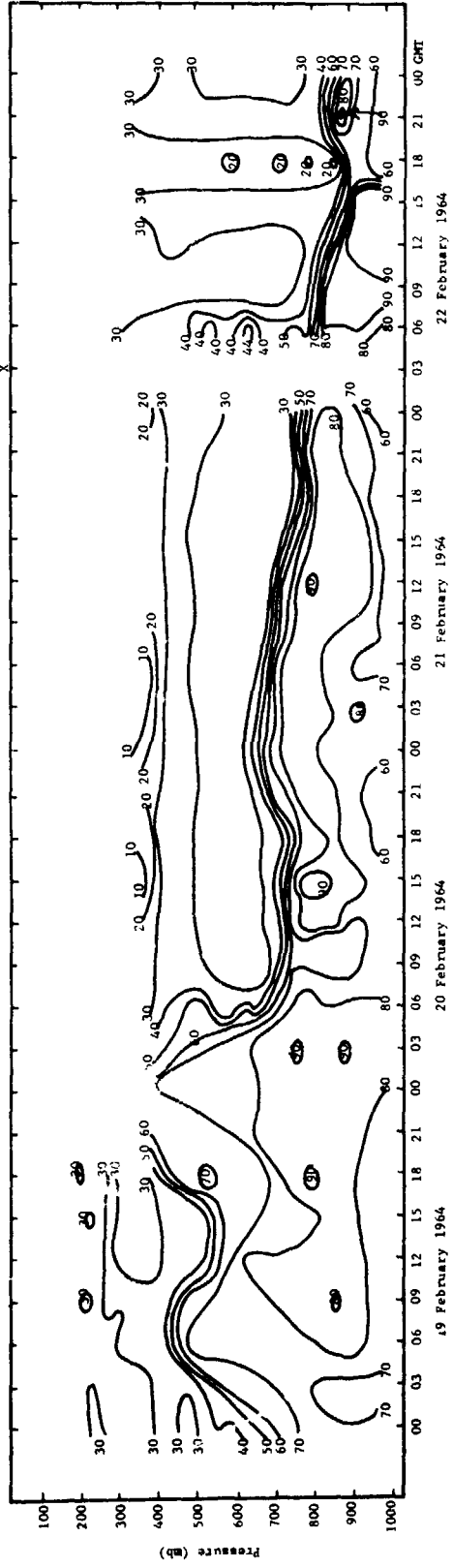


Meridional Wind Component (m/sec) for Nashville, Tennessee, Station Number 33013

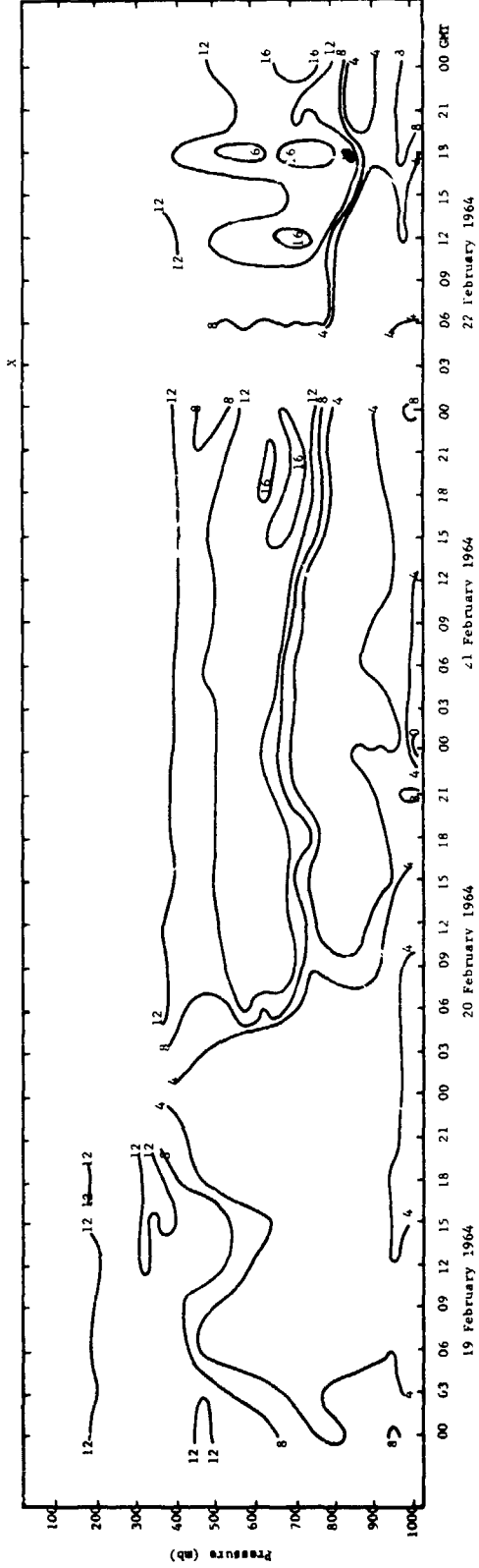


Wind Speed (m/sec) for Nashville, Tennessee, Station Number 33013

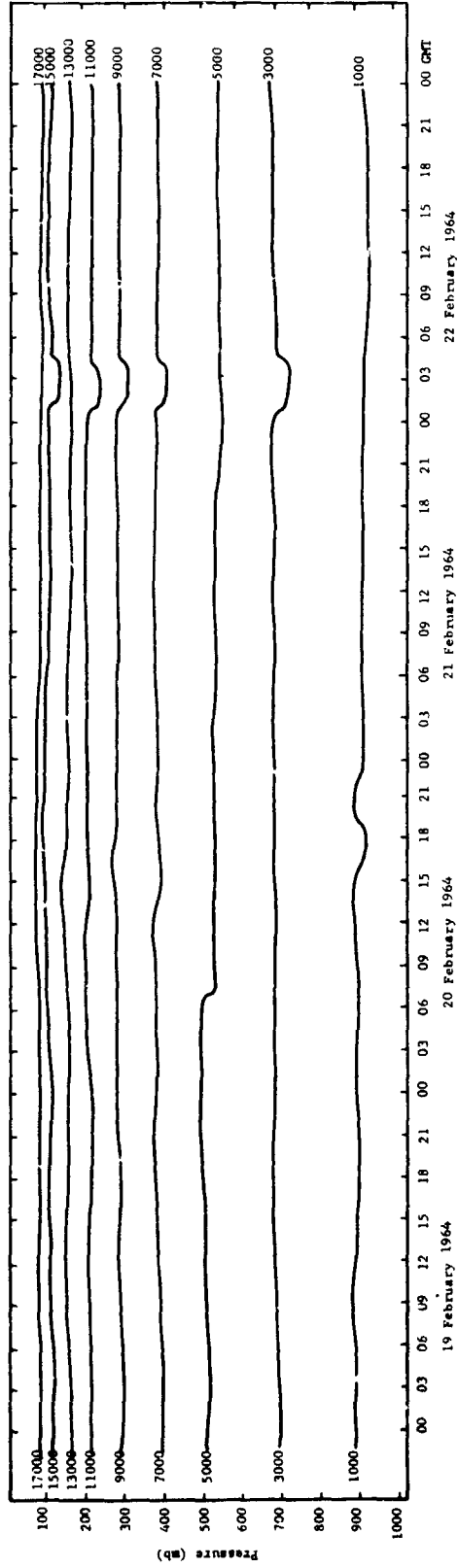
NOTE: Interval not constant



Relative Humidity (%) for Nashville, Tennessee, Station Number 33013



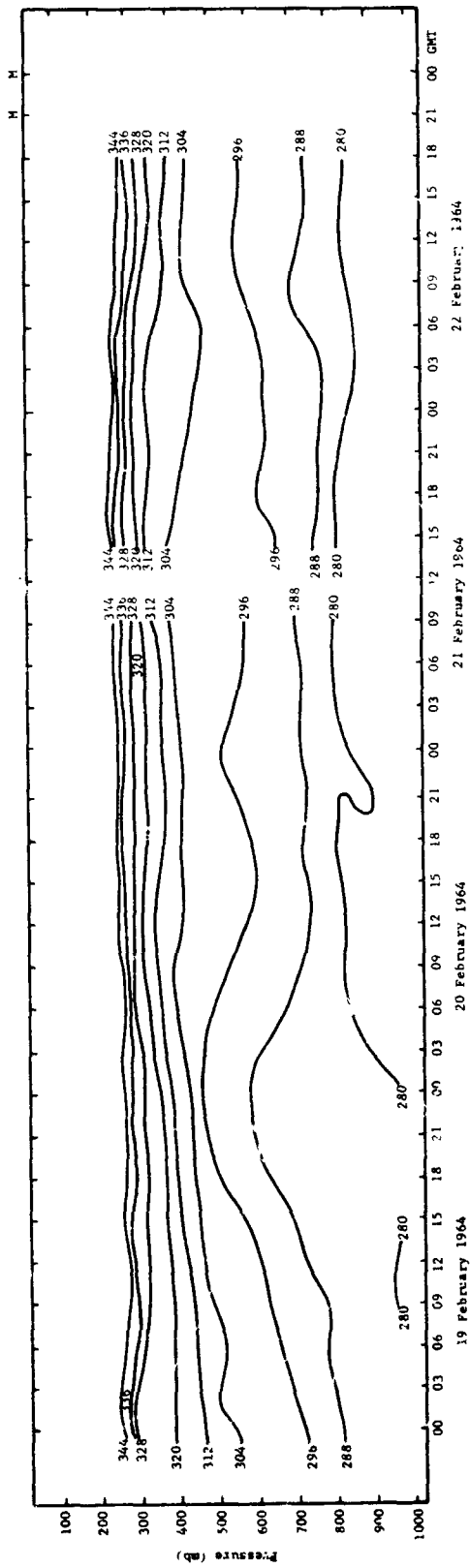
Dewpoint Depression (°C) for Nashville, Tennessee, Station Number 33013



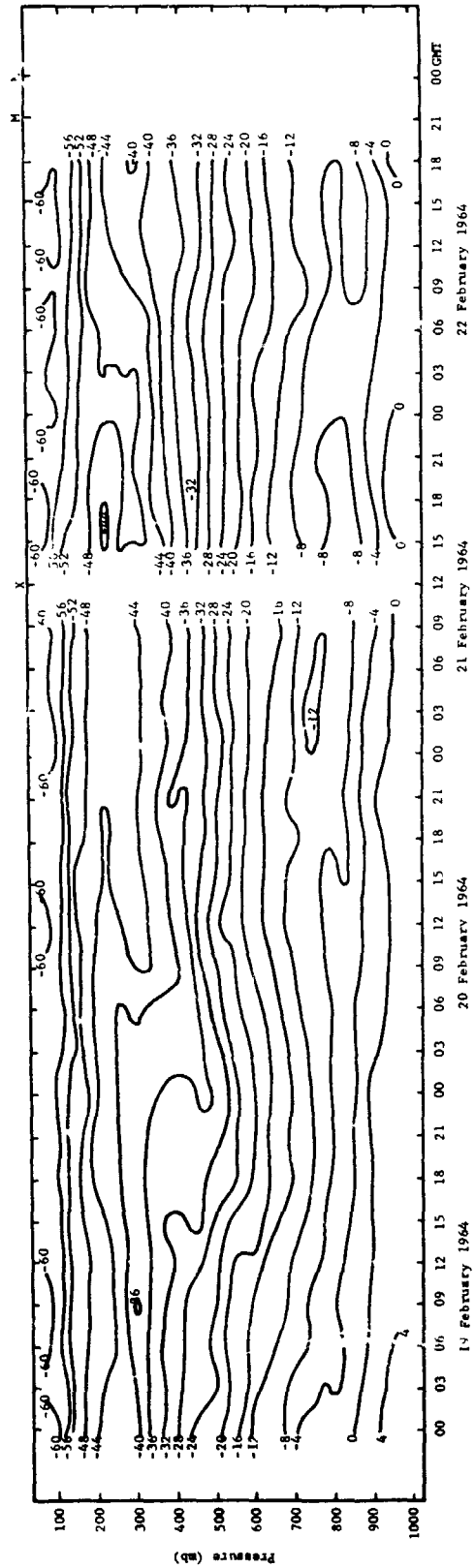
Height (gpm) for Nashville, Tennessee, Station Number 33013

Station Number 33014

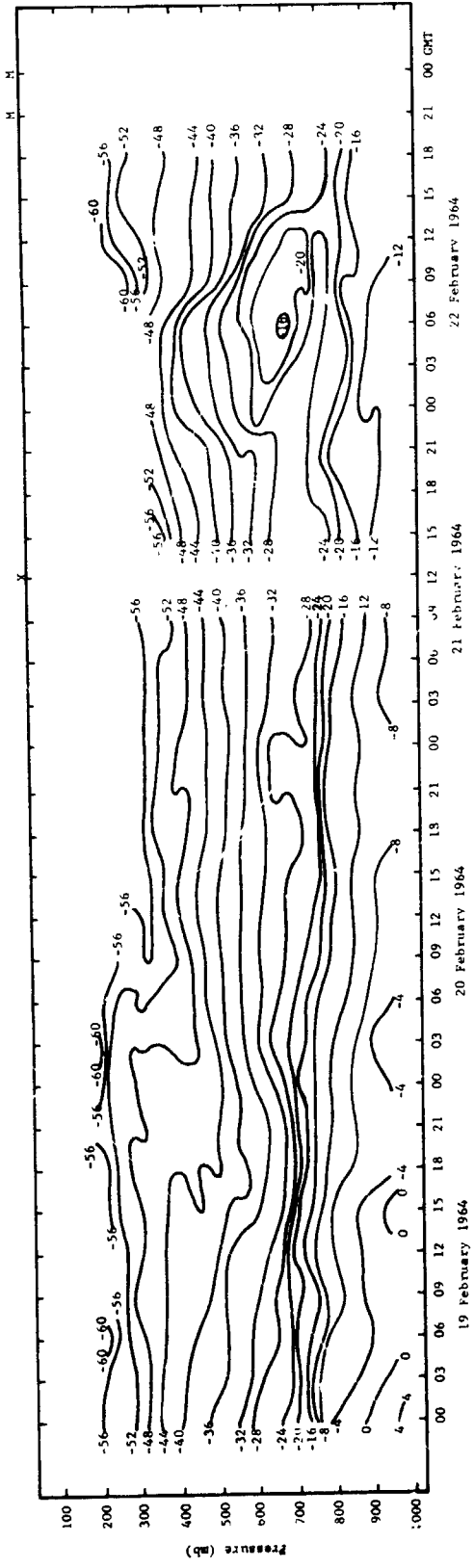
Athens, Georgia



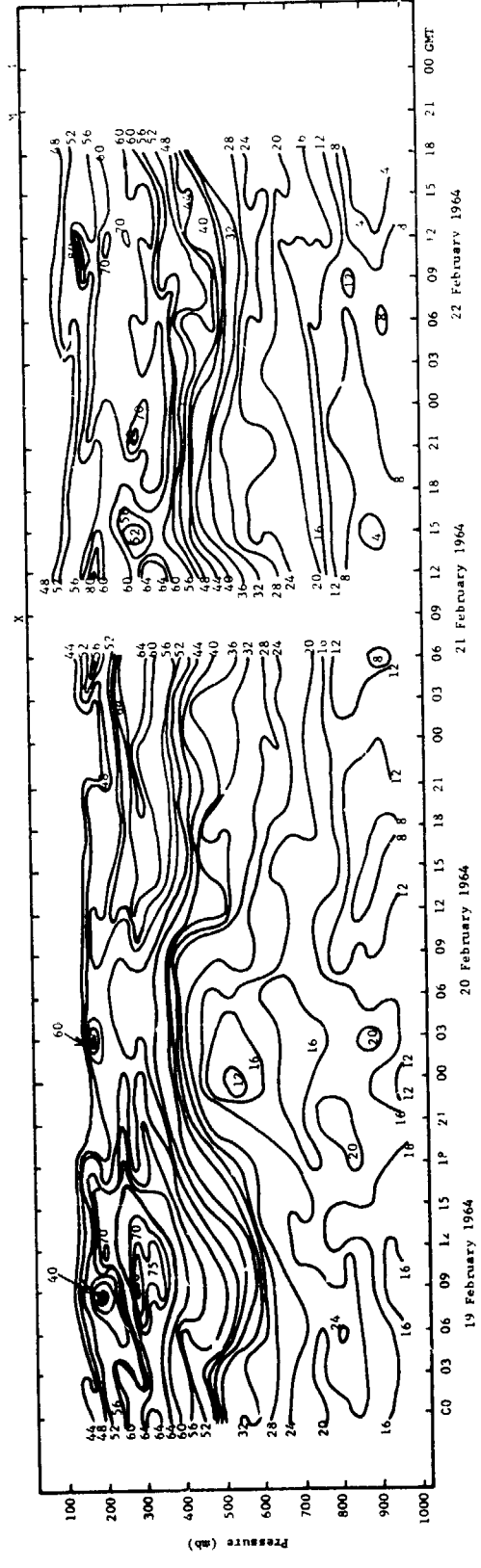
Potential Temperature ($^{\circ}\text{K}$) for Athens, Georgia, Station Number 33014



Temperature ($^{\circ}\text{C}$) for Athens, Georgia, Station Number 33014

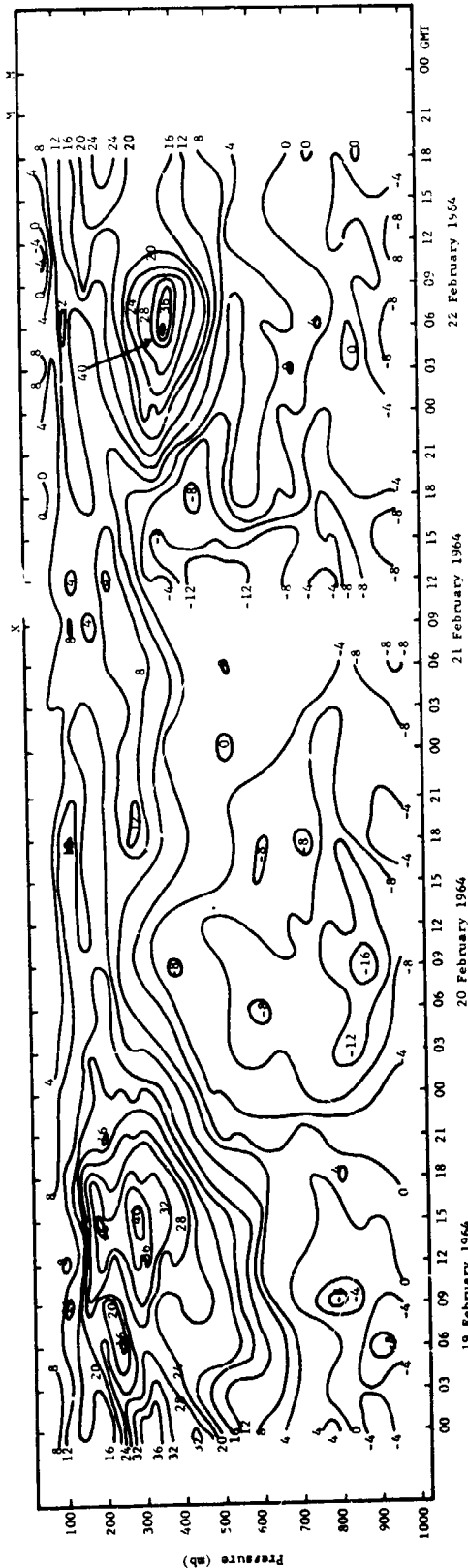


Dewpoint Temperature (°C) for Athens, Georgia, Station Number 33014

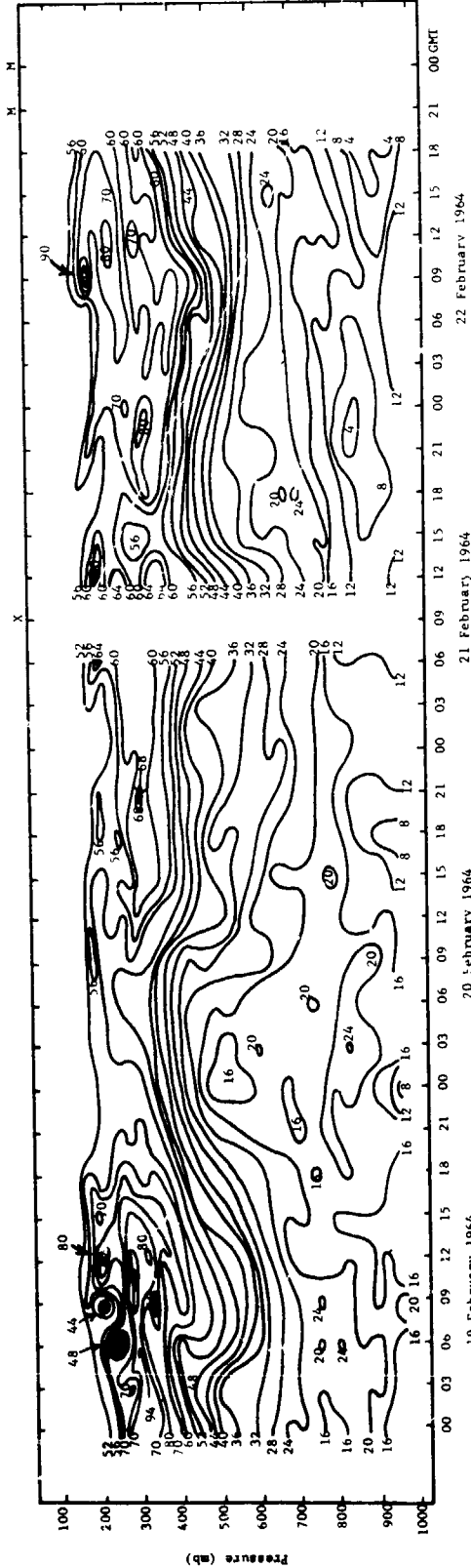


Zonal Wind Component (m/sec) for Athens, Georgia, Station Number 33014

NOTE: Interval not constant

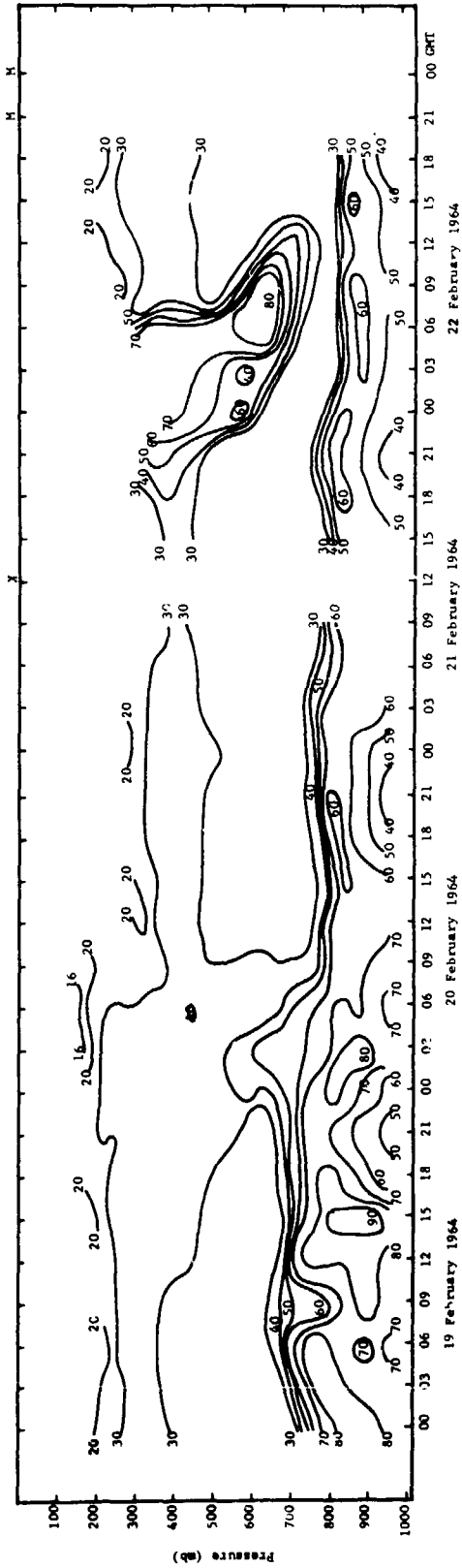


Meridional Wind Component (m/sec) for Athens, Georgia, Station Number 33014

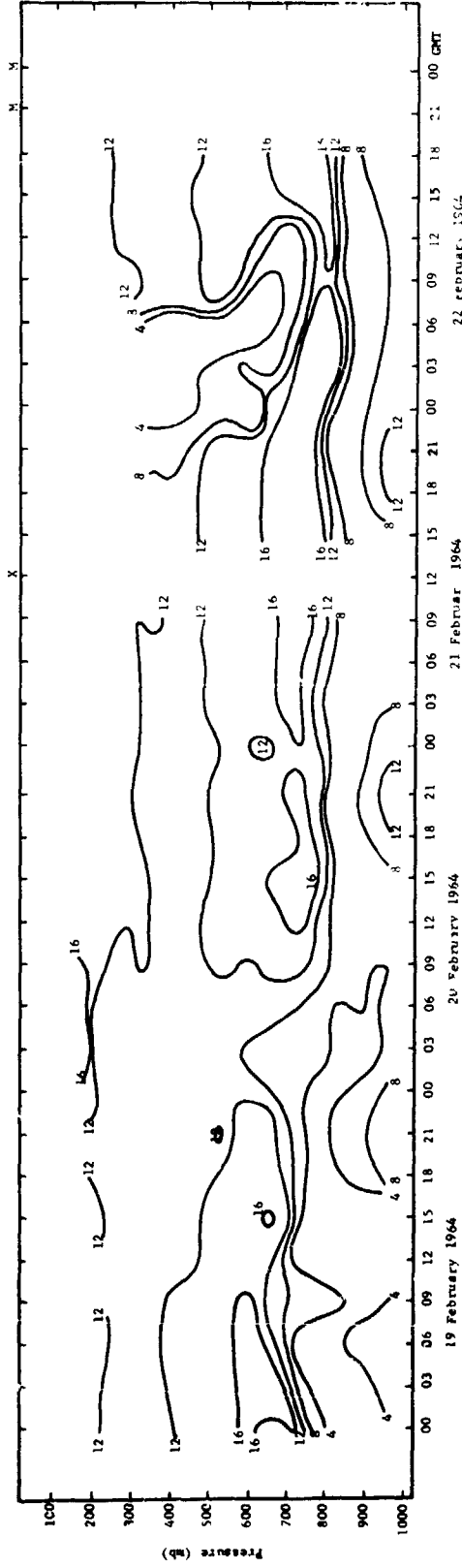


Wind Speed (m/sec) for Athens, Georgia, Station Number 33014

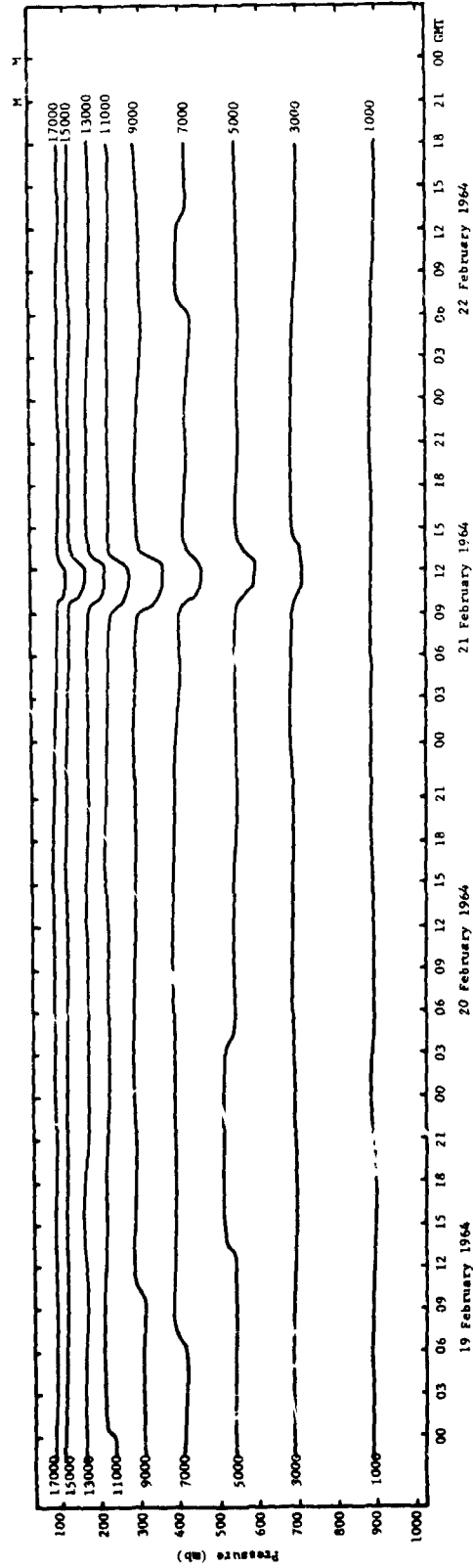
NOTE: Interval not constant



Relative Humidity (%) for Athens, Georgia, Station Number 33014



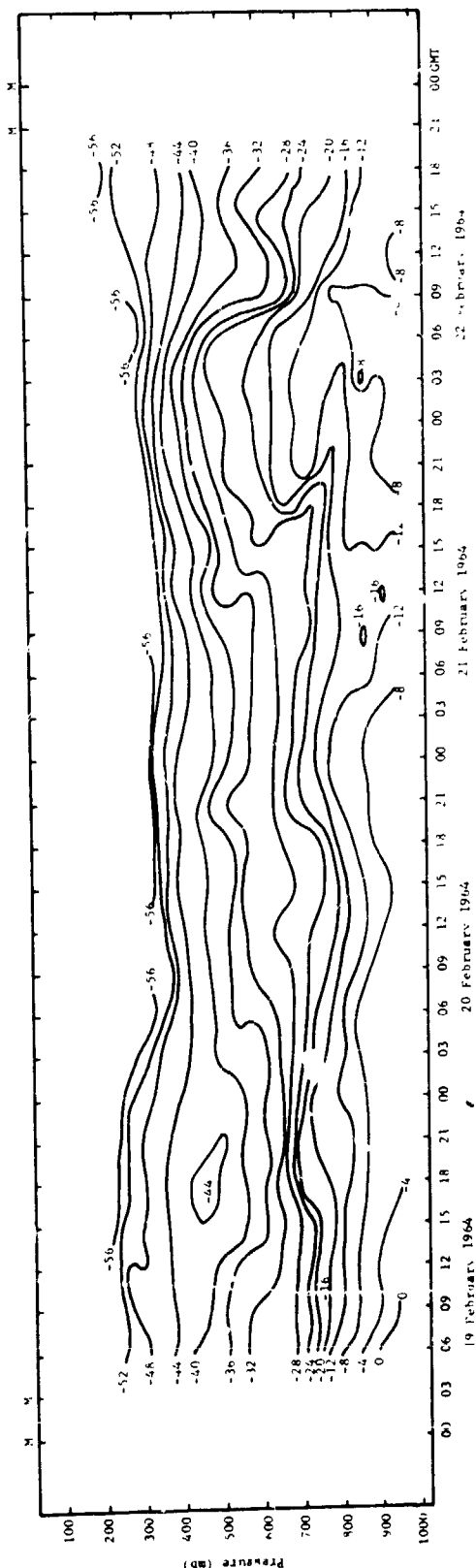
Dewpoint Depression (°C) for Athens, Georgia, Station Number 33014



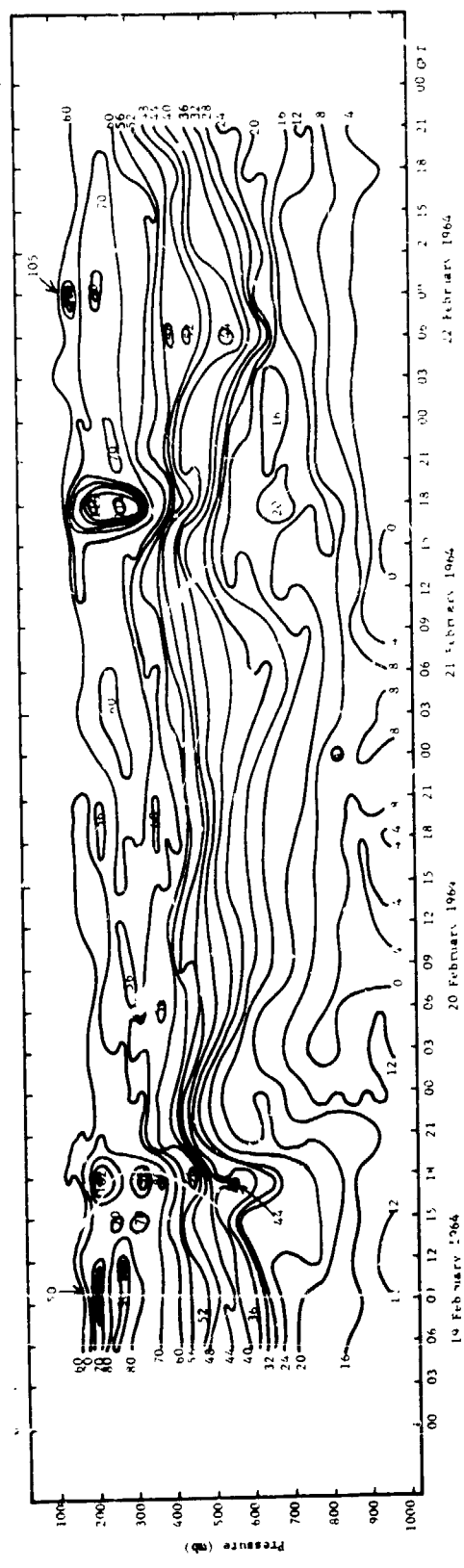
Height (gpm) for Athens, Georgia, Station Number 33014

Station Number 33015

Montgomery, Alabama

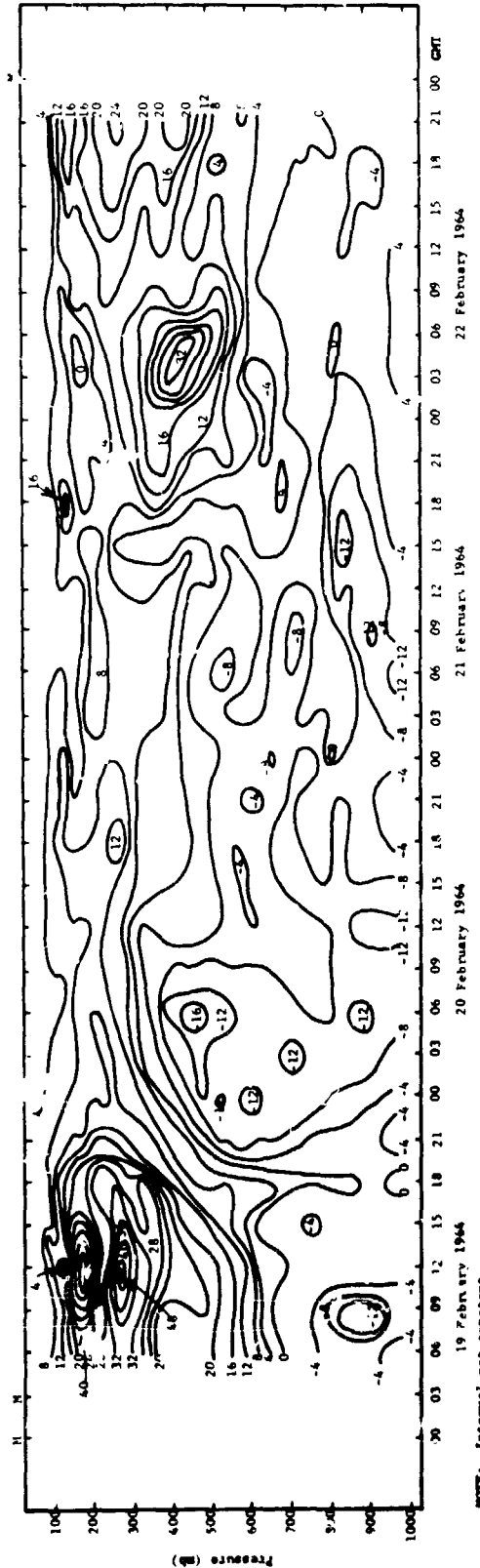


Dewpoint Temperature (°C) for Montgomery, Alabama, Station Number 33015



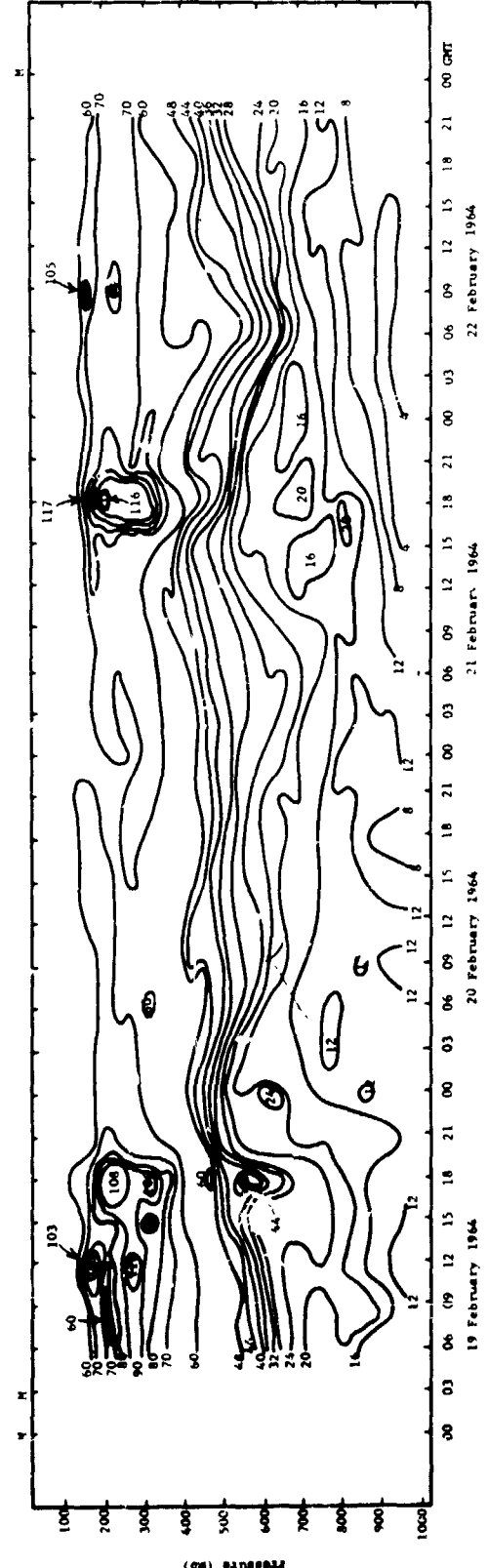
NOTE: interval not constant

Zonal Wind Component (m/sec) for Montgomery, Alabama, Station Number 33015



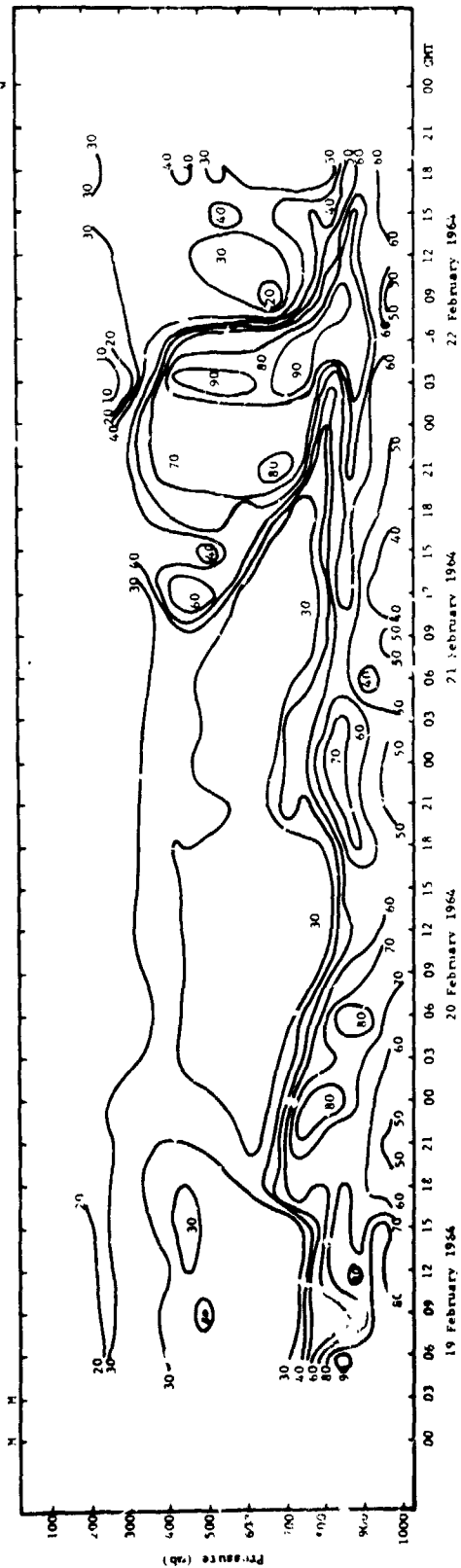
Meridional Wind Component (m/sec) for Montgomery, Alabama, Station Number 33015

NOTE: Interval not constant

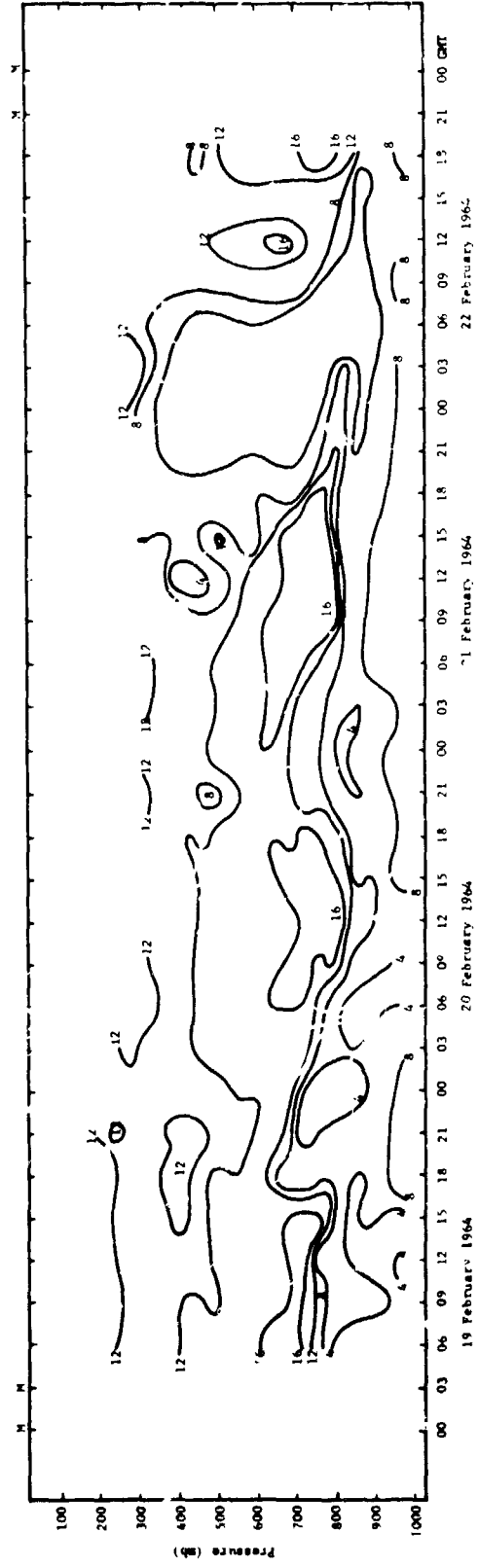


Wind Speed (m/sec) for Montgomery, Alabama, Station Number 33015

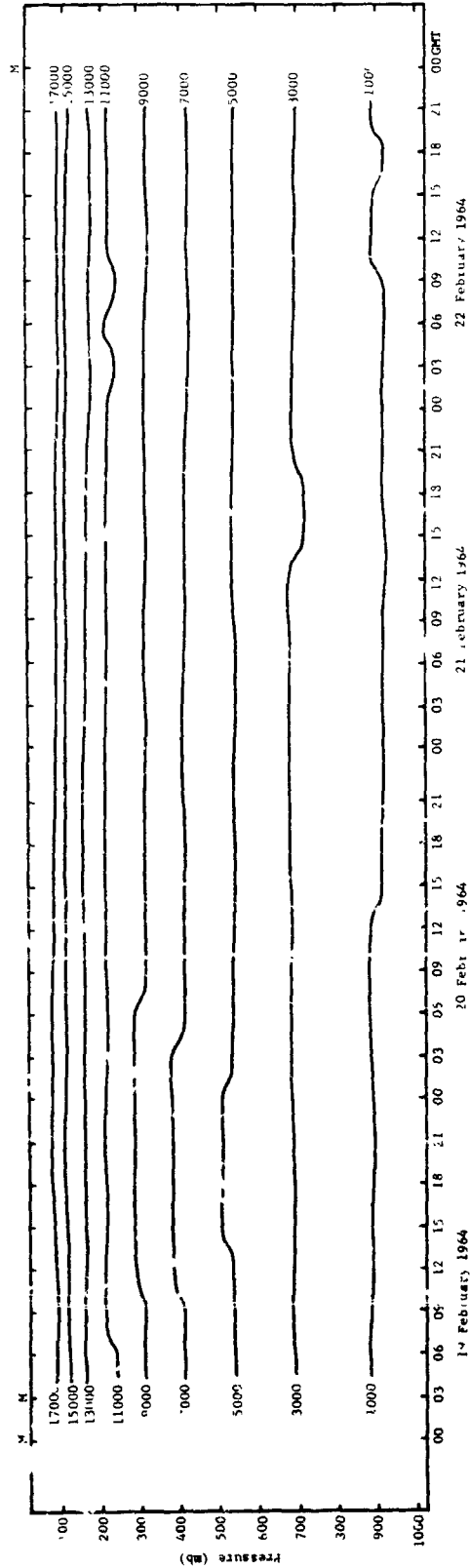
NOTE: Interval not constant



Relative Humidity (%) for Montgomery, Alabama, Station Number 33015



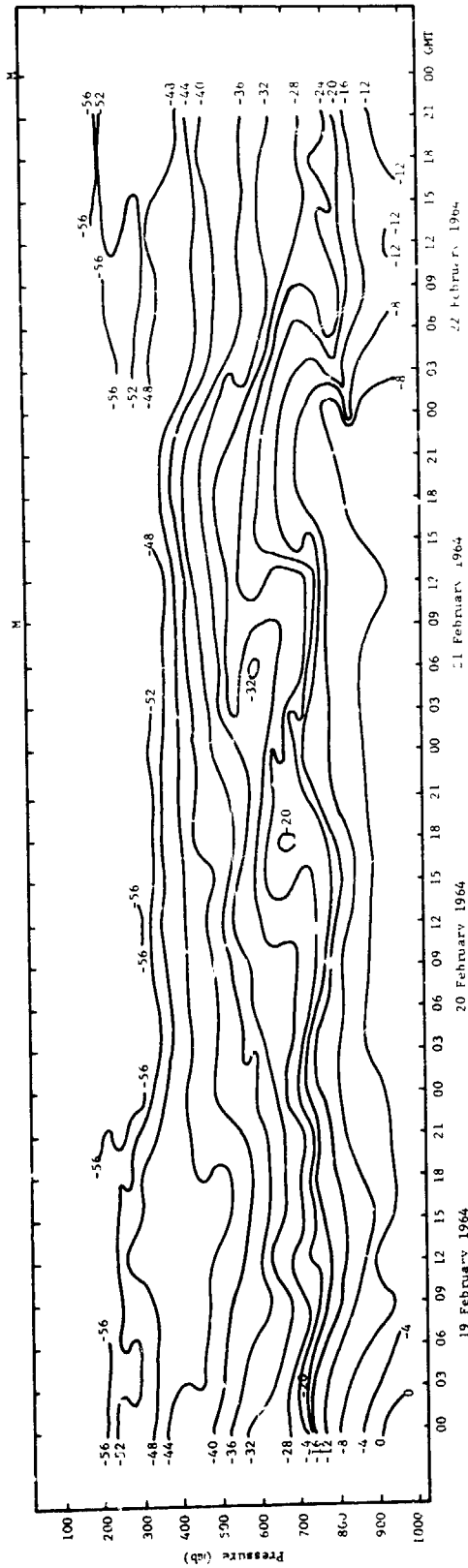
Dewpoint depression (°C) for Montgomery, Alabama, Station Number 33015



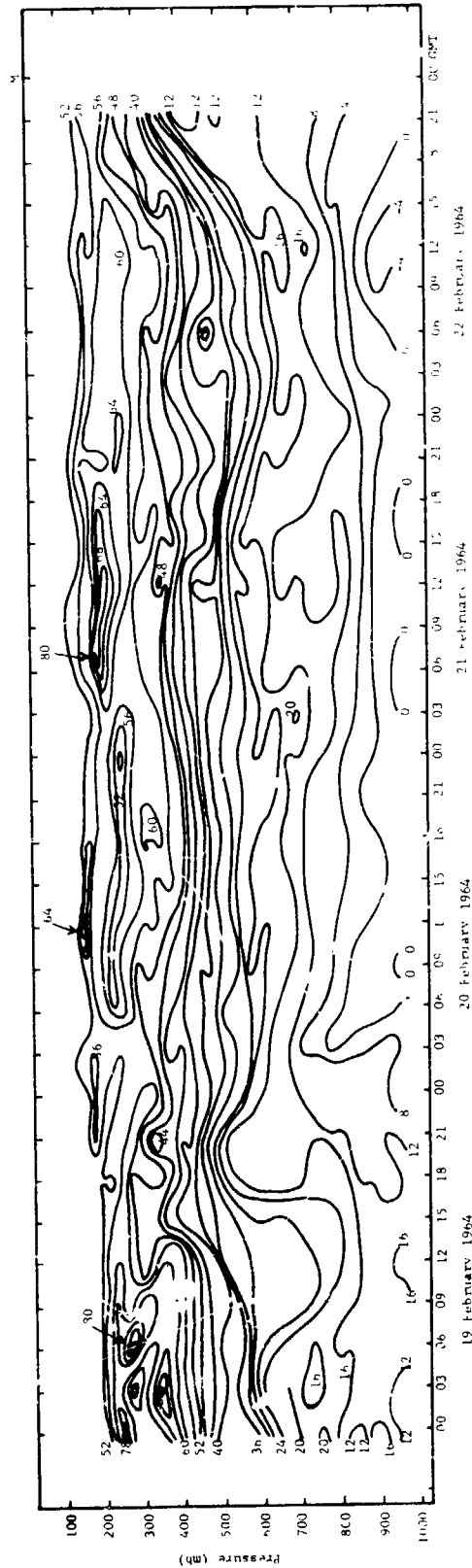
Height (gpm) for Montgomery, Alabama Station Number 33015

Station Number 33016

Jackson, Mississippi

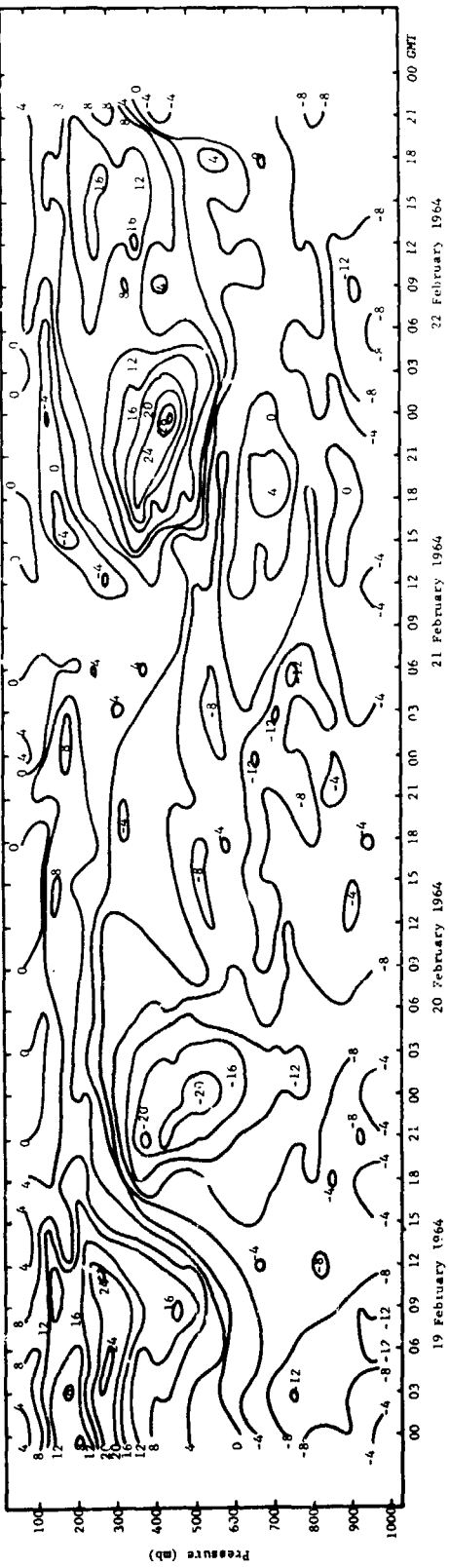


Dewpoint temperature (°C) for Jackson, Mississippi, Station Number 33016

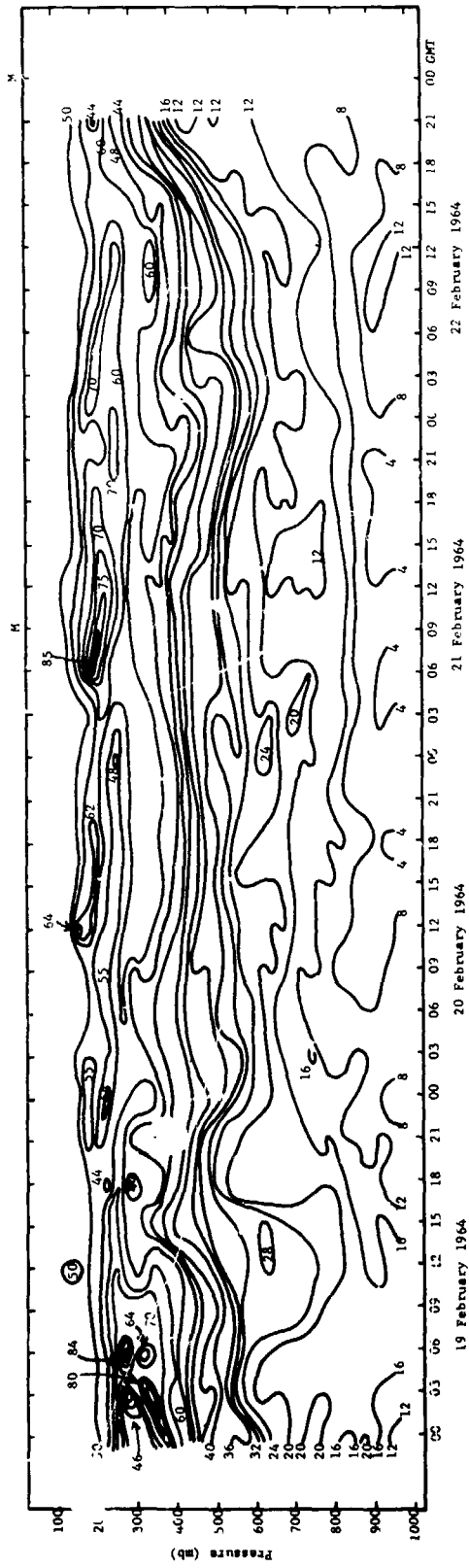


NOTE: Interval not constant

Zonal Wind Component (m/sec) for Jackson, Mississippi, Station Number 33016

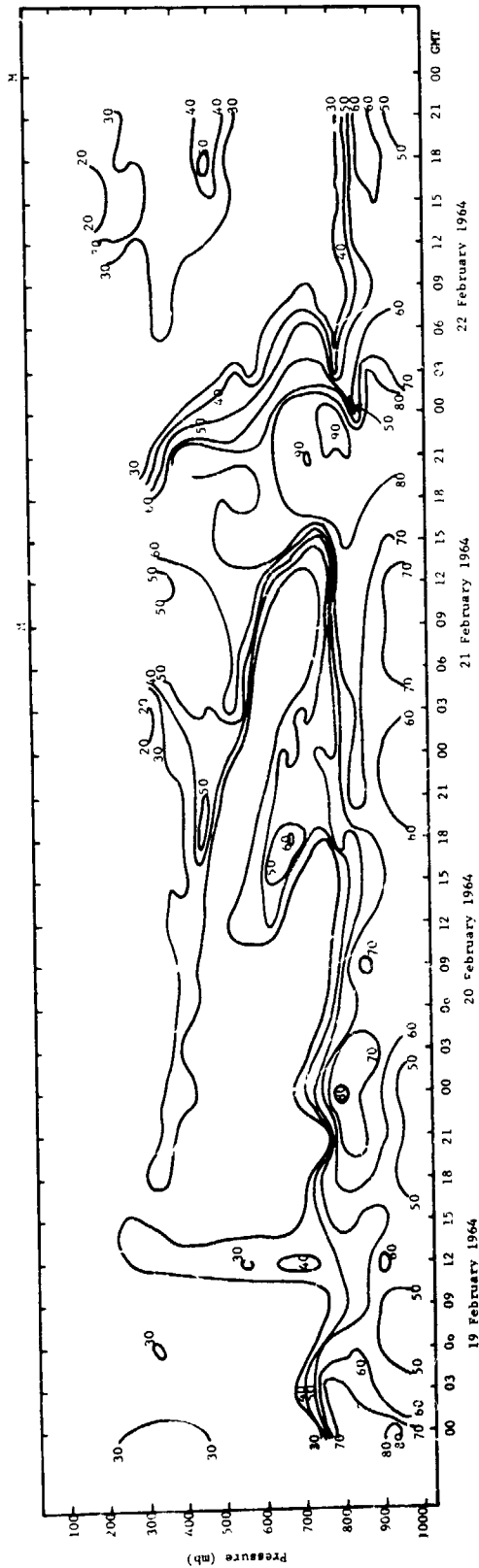


Meridional Wind Component (m/sec) for Jackson, Mississippi, Station Number 33016

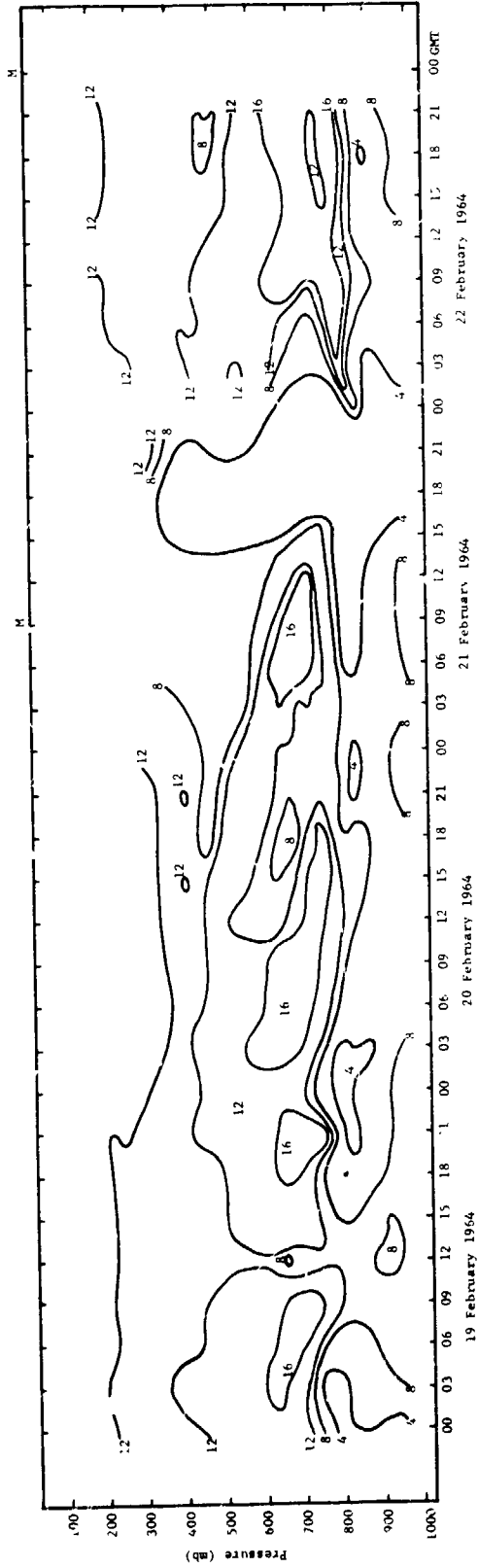


NOTE: Interval not constant

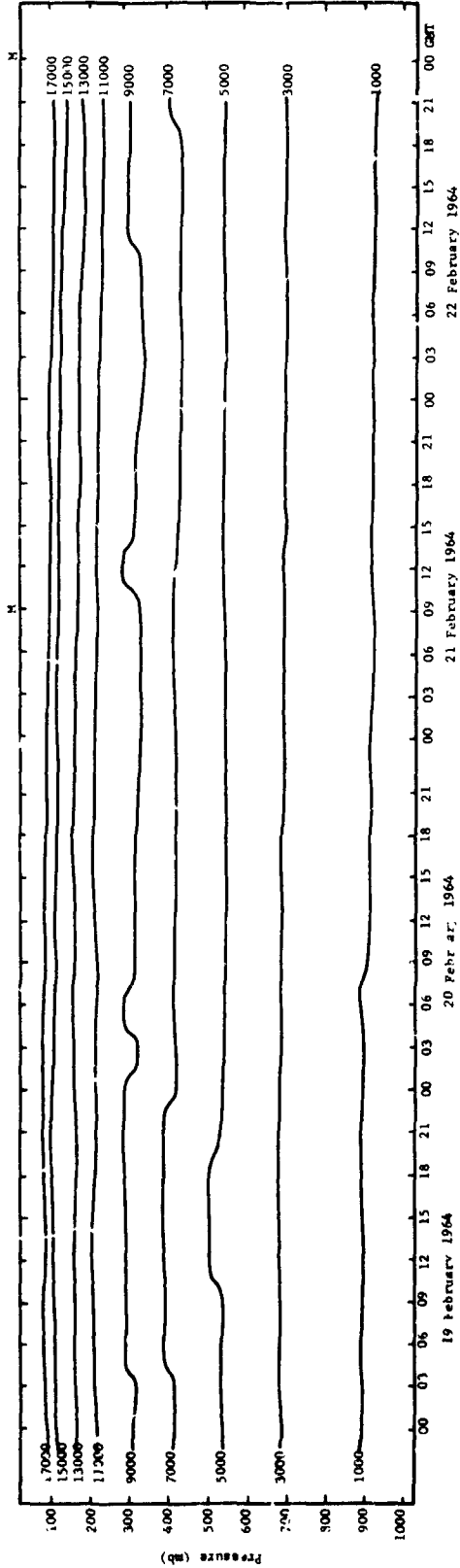
Wind Speed (m/sec) for Jackson, Mississippi, Station Number 33016



Relative Humidity (%) for Jackson, Mississippi, Station Number 33016



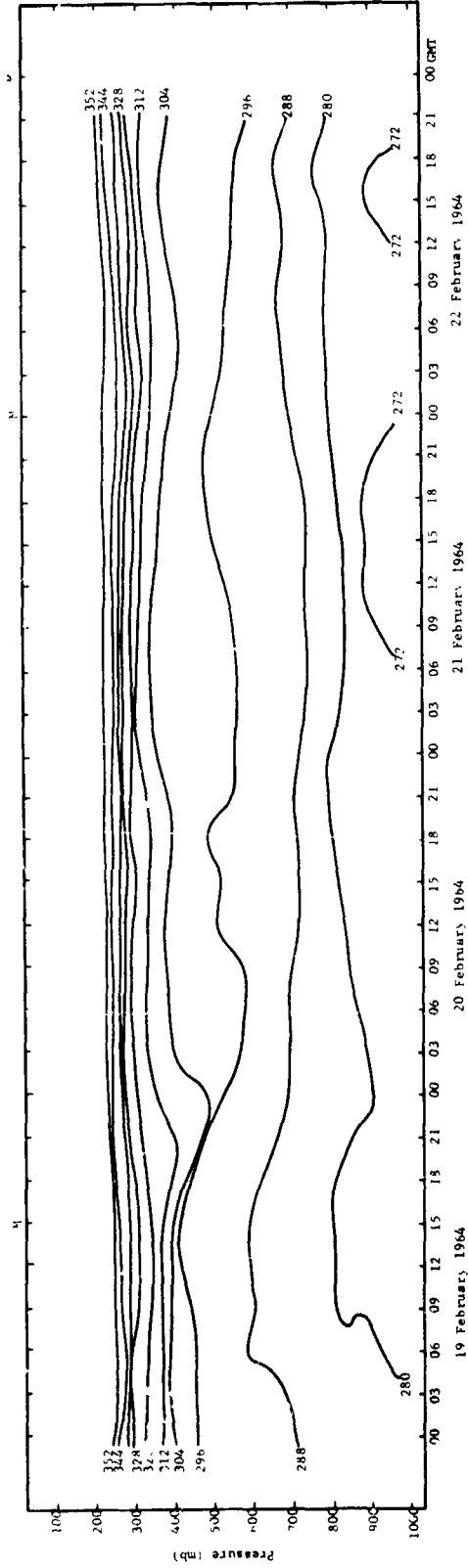
Dewpoint Depression ($^{\circ}$ C) for Jackson, Mississippi, Station Number 33016



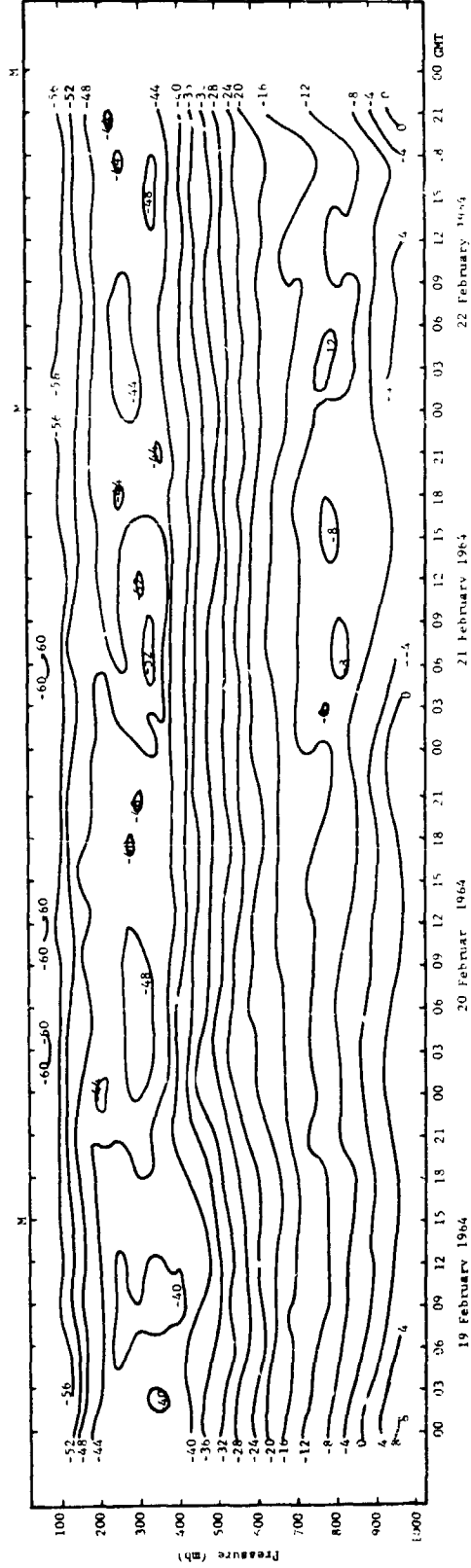
Height (gpm) for Jackson, Mississippi, Station Number 33016

Station Number 33017

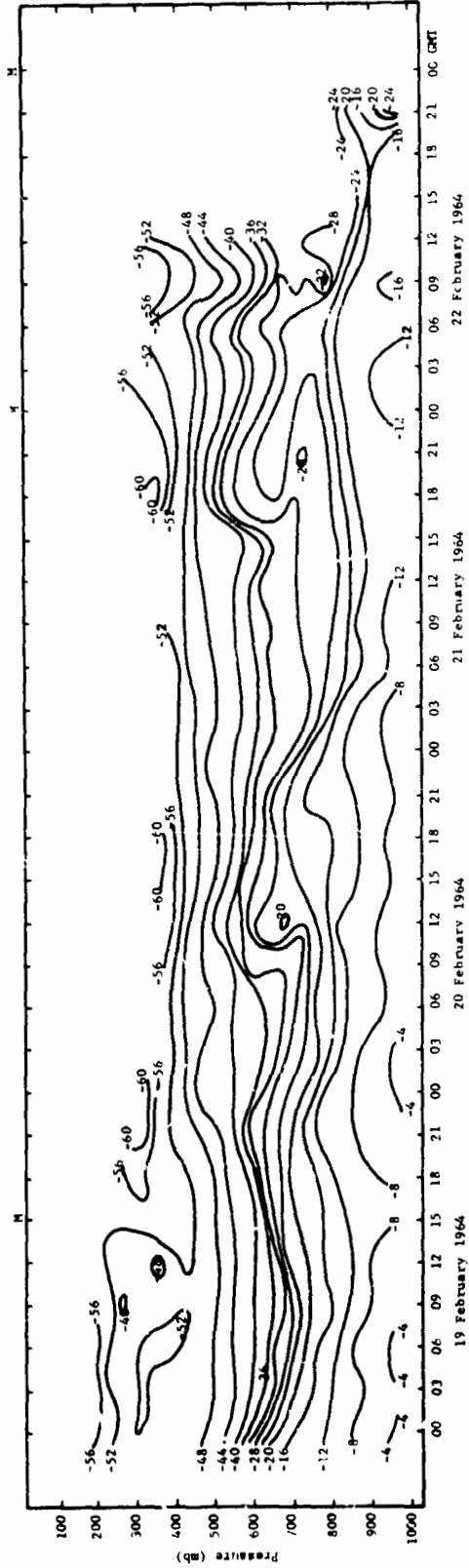
Little Rock, Arkansas



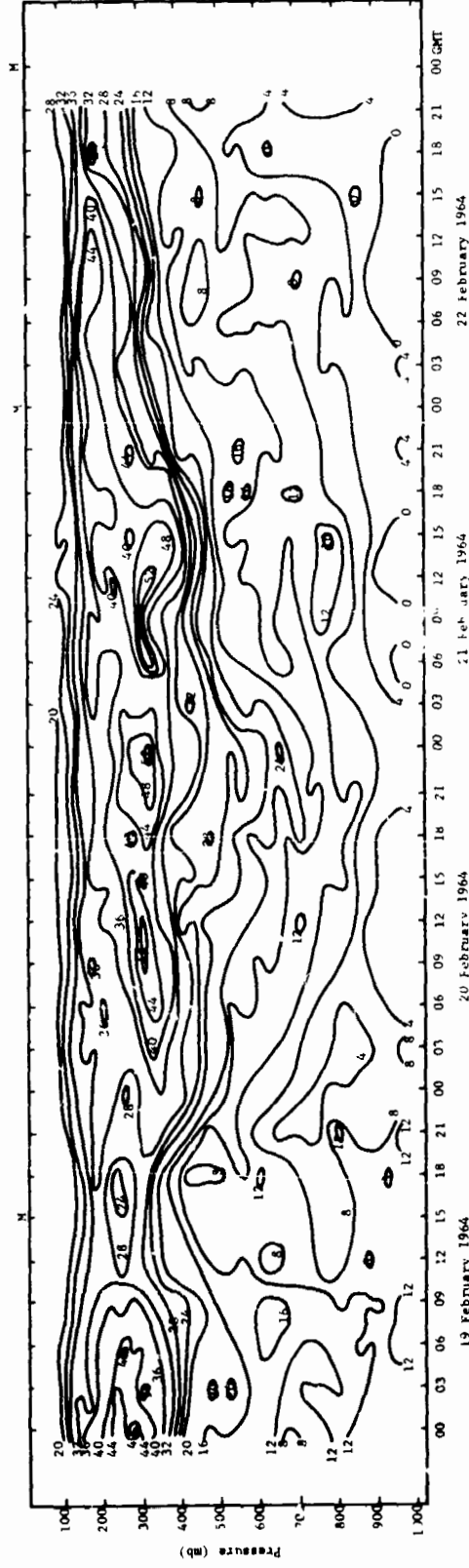
Potential Temperature ($^{\circ}$ K) for Little Rock, Arkansas, Station Number 33017



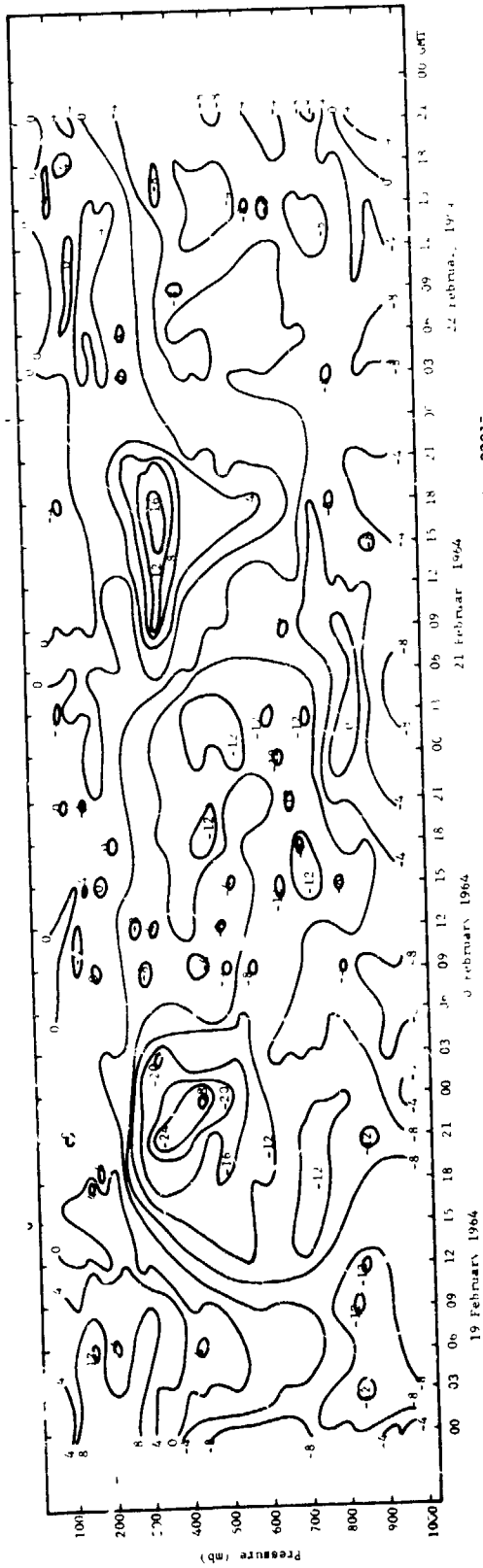
Temperature ($^{\circ}$ C) for Little Rock, Arkansas, Station Number 33017



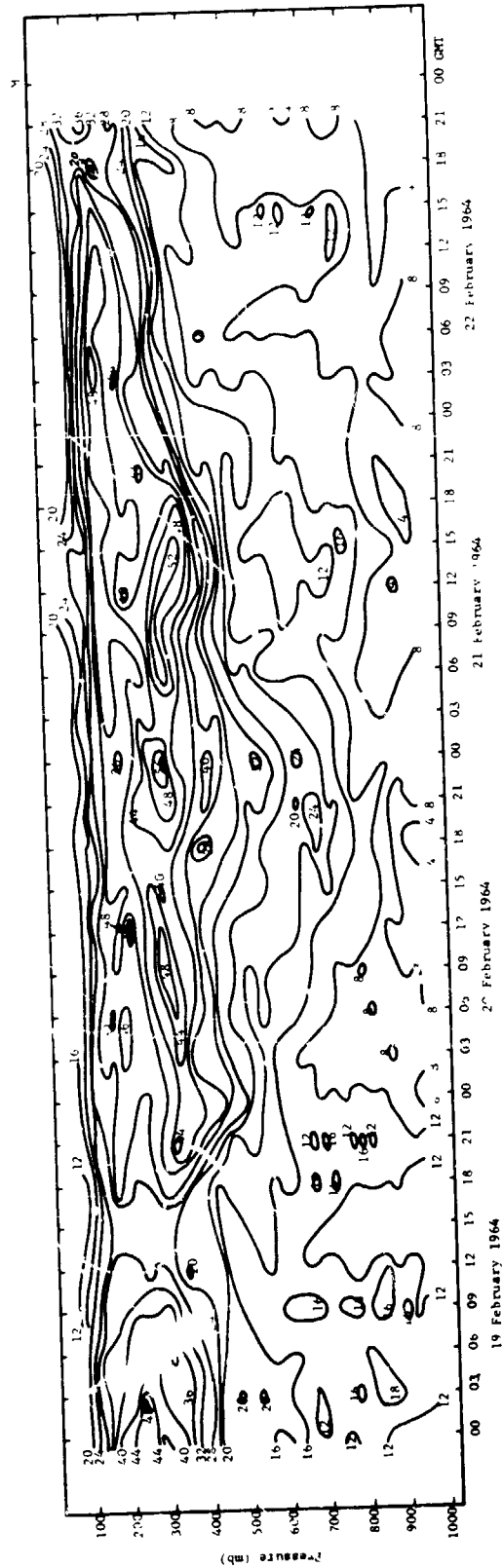
Dewpoint Temperature ($^{\circ}$ C) for Little Rock, Arkansas, Station Number 33017



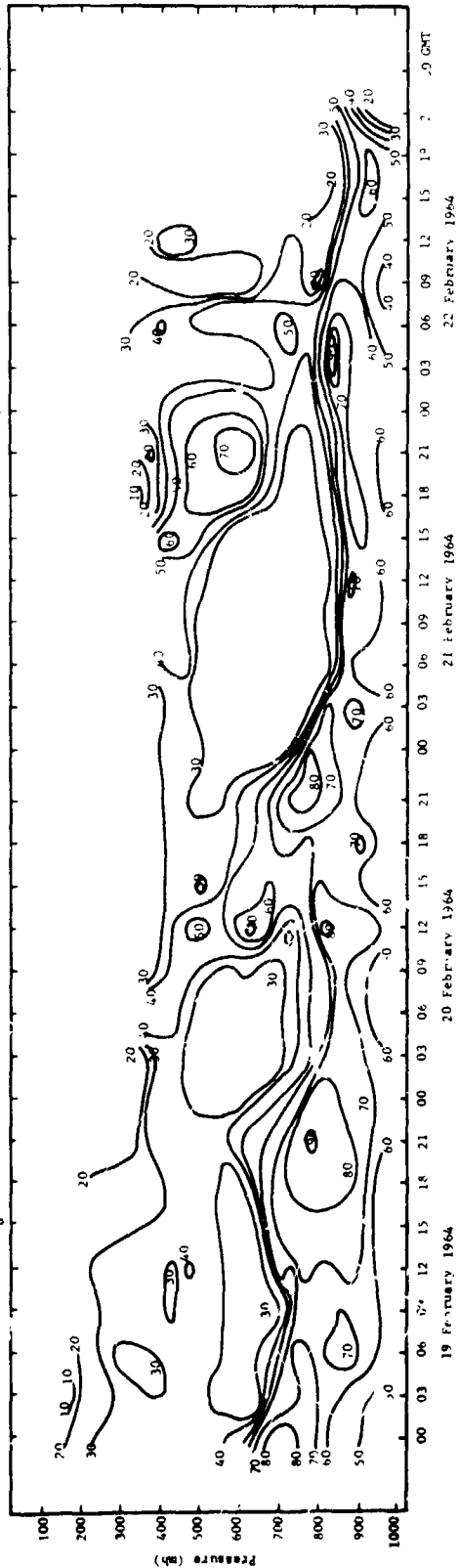
Zonal Wind Component (m/sec) for Little Rock, Arkansas, Station Number 33017



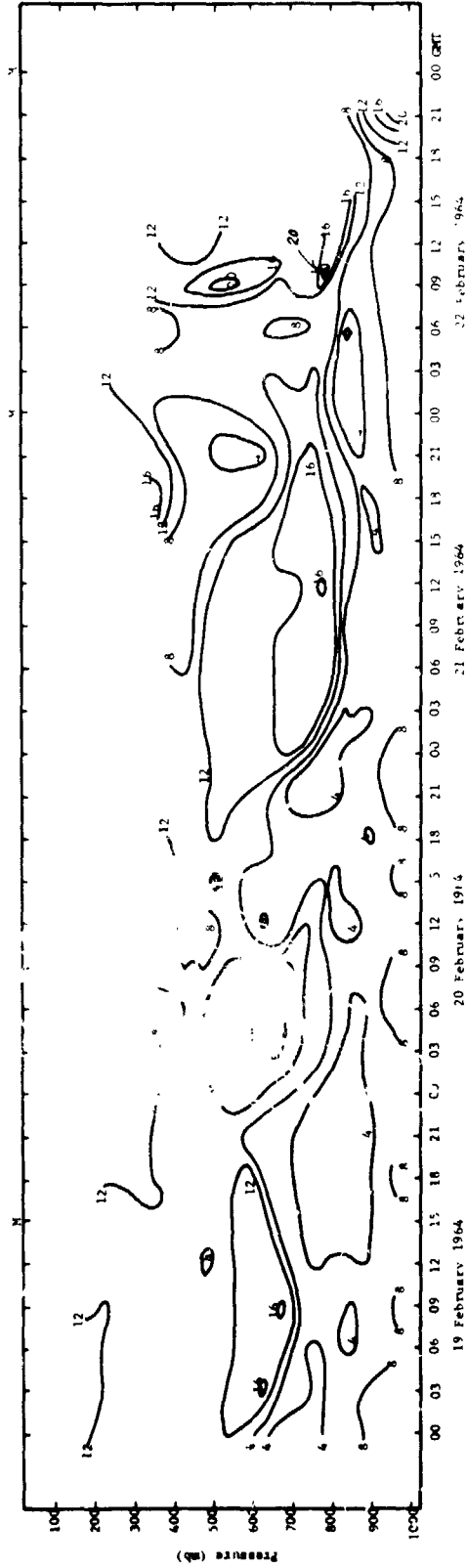
Meridional Wind Component (m/sec) for Little Rock, Arkansas, Station Number 33017



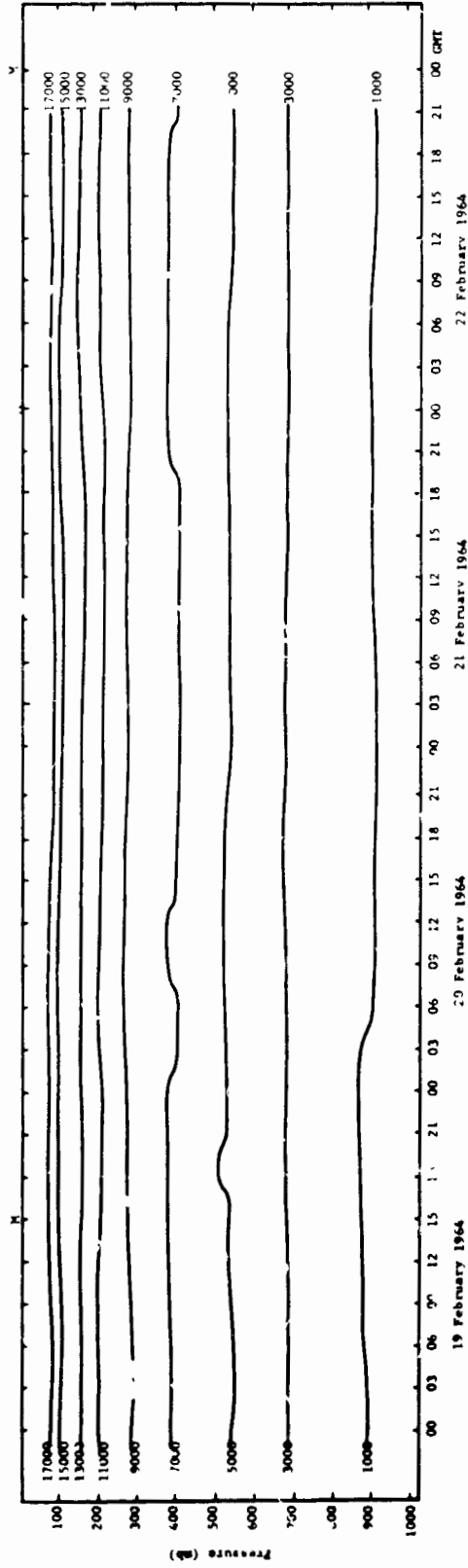
Wind Speed (m/sec) for Little Rock, Arkansas, Station Number 33017



Relative Humidity (%) for Little Rock, Arkansas, Station Number 33017



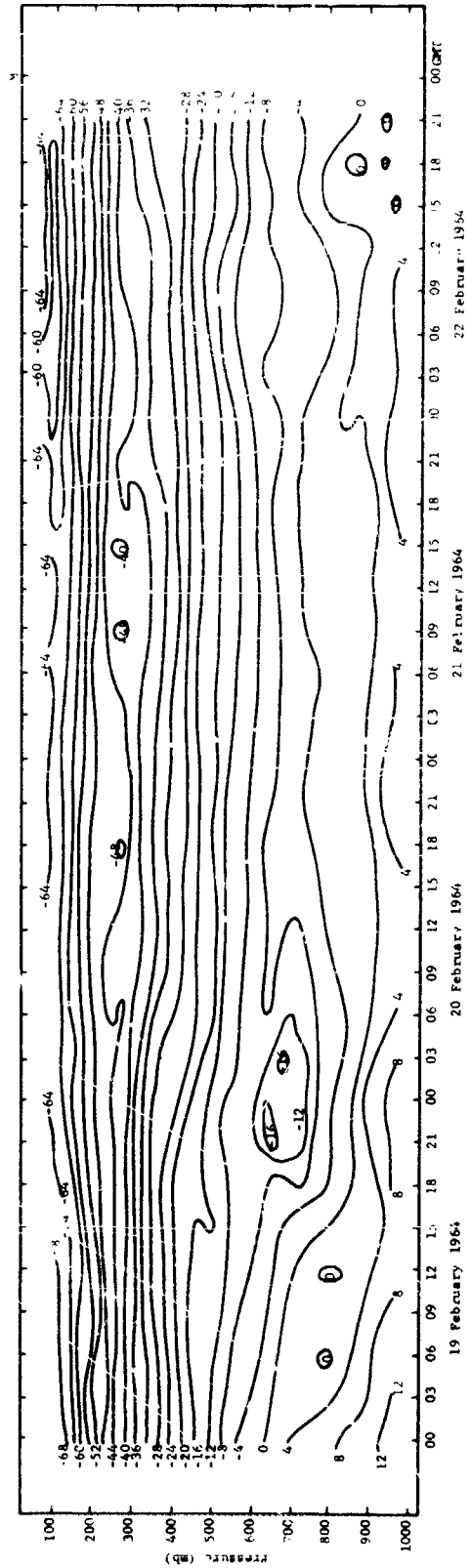
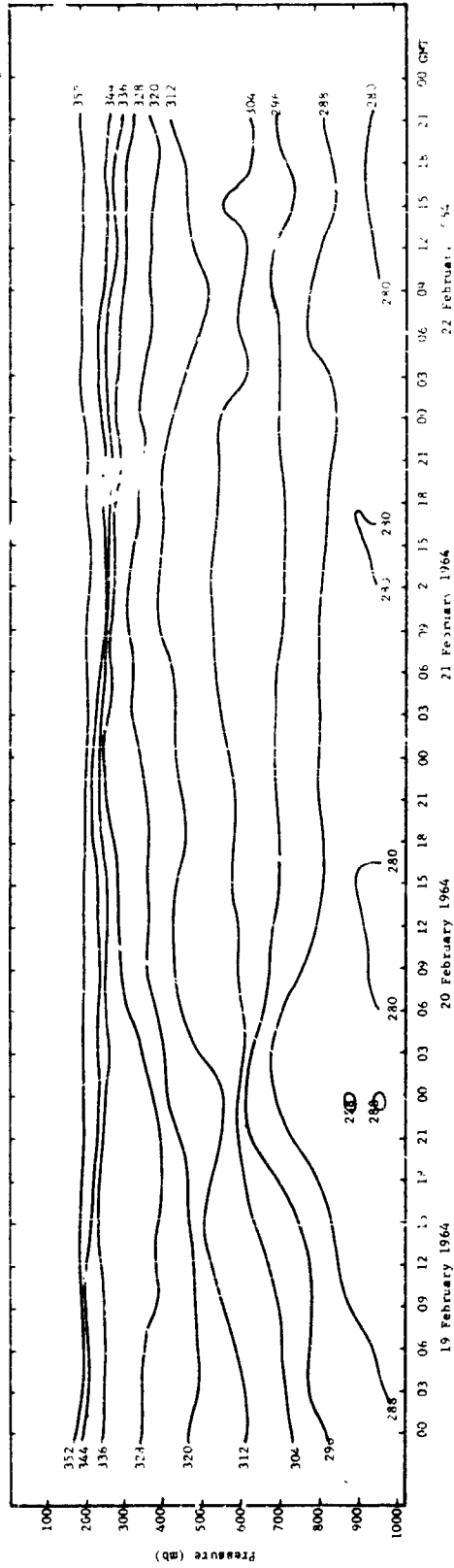
Dewpoint Depression (°C) for Little Rock, Arkansas, Station Number 33017



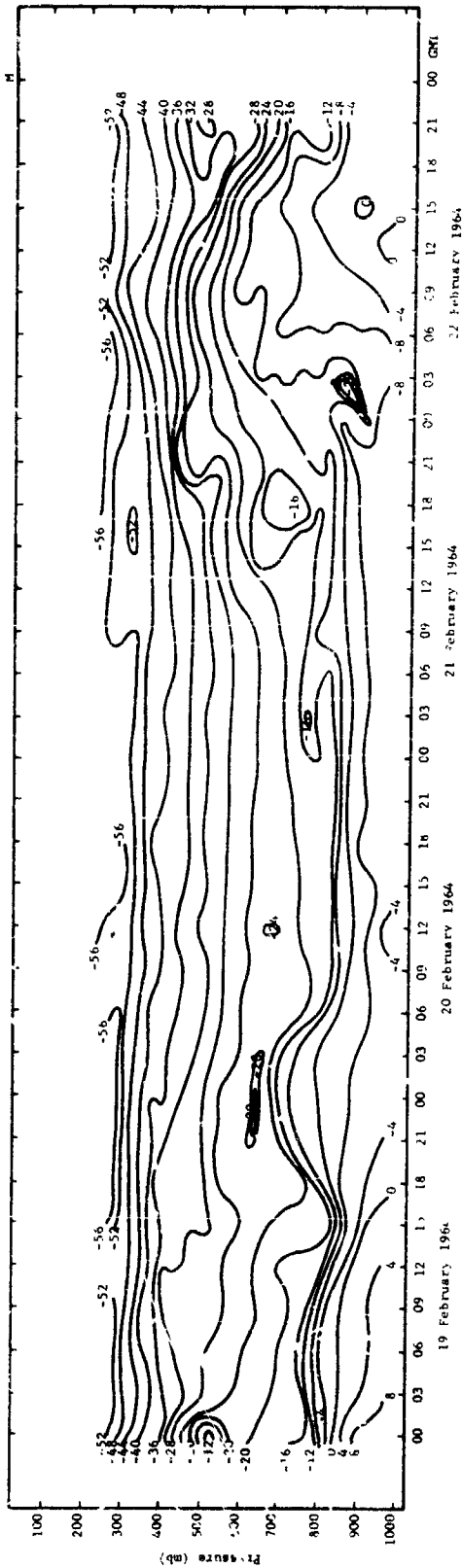
Height (gpm) for Little Rock, Arkansas, Station Number 33017

Station Number 33018

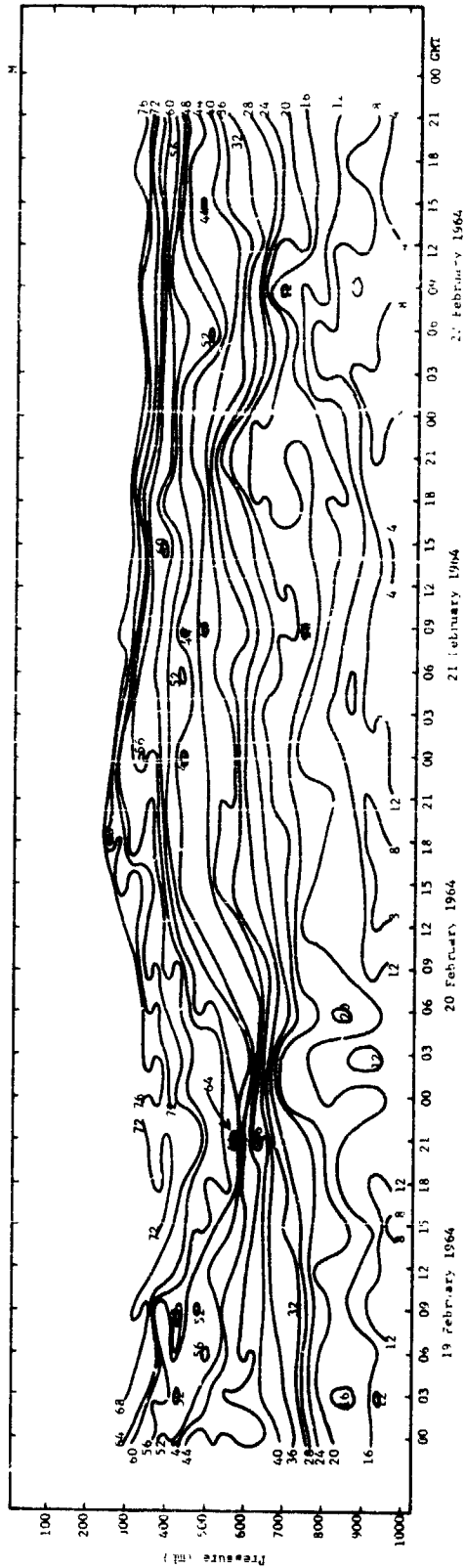
Jacksonville, Florida



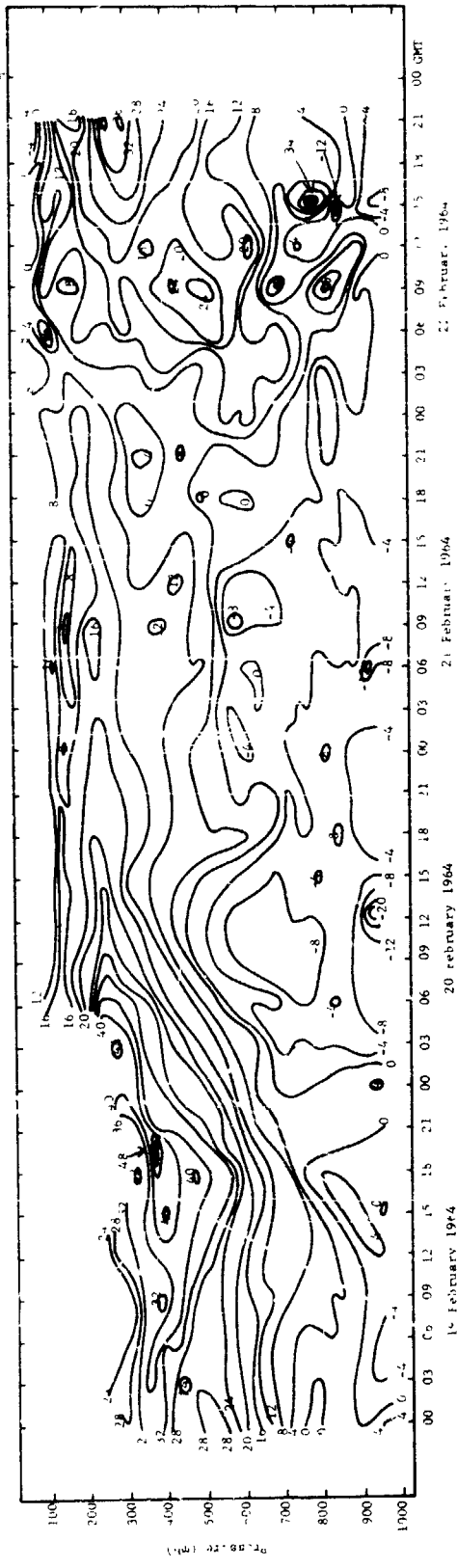
[Handwritten mark]



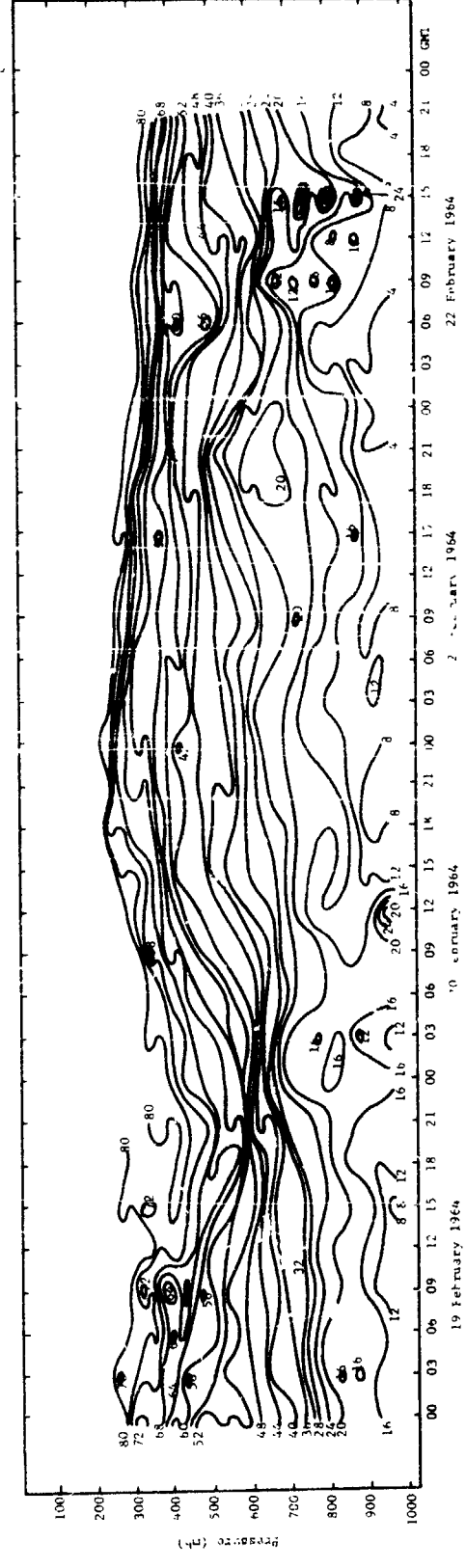
Dewpoint Temperature (°C) for Jacksonville, Florida, Station Number 33018



Zonal Wind Component (mi/sec) for Jacksonville, Florida, Station Number 33018

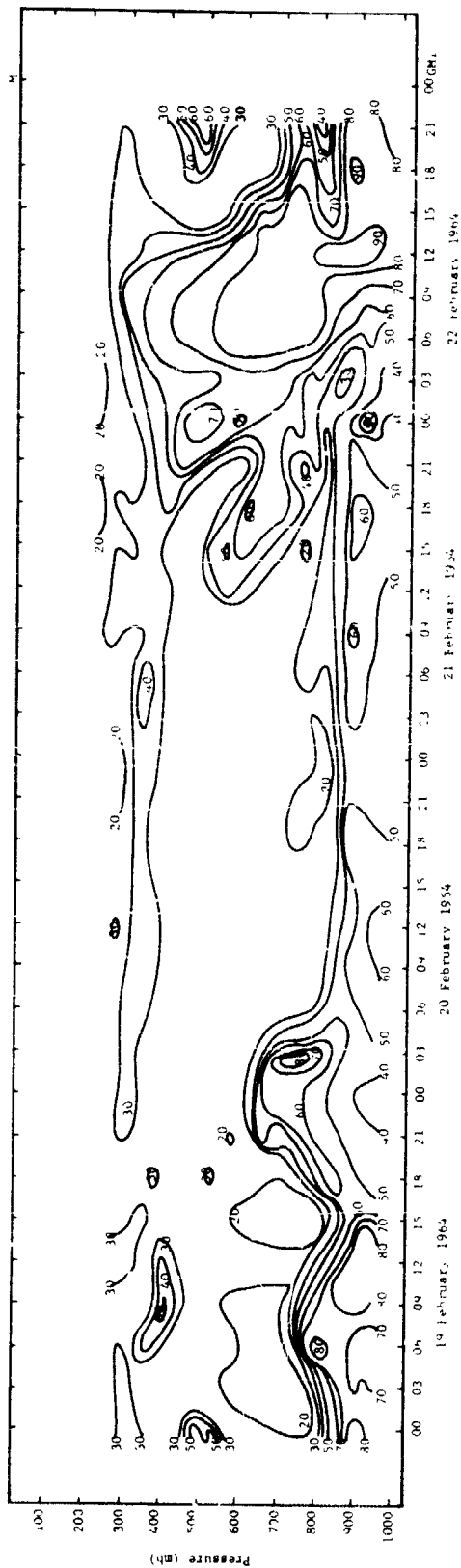


Meridional Wind Component (m/sec) for Jacksonville, Florida, Station Number 33018

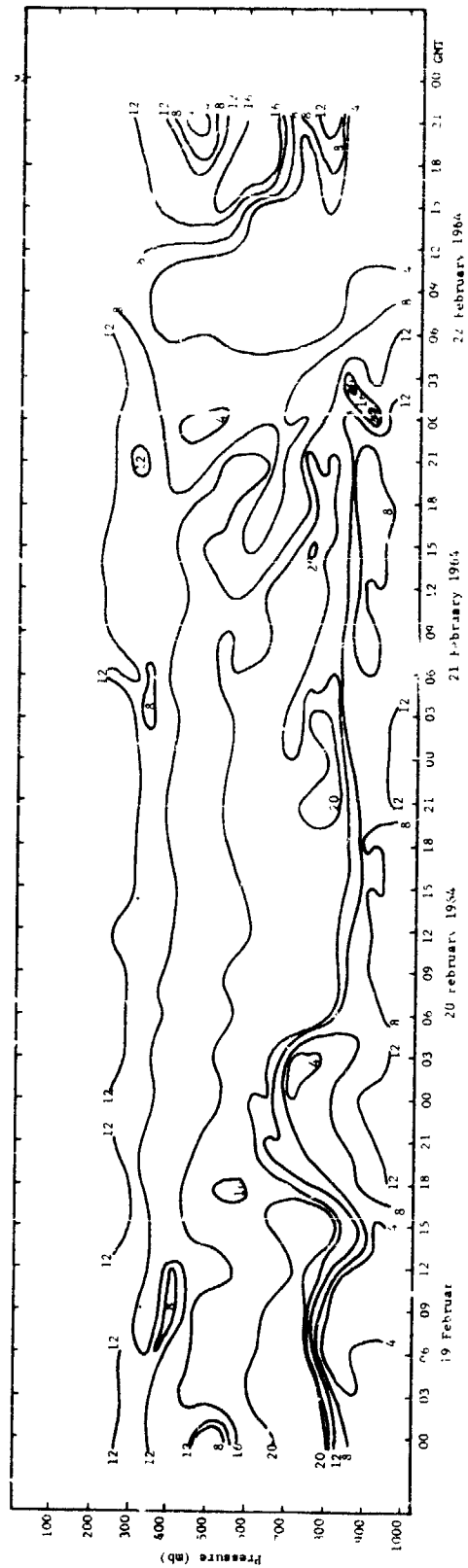


Wind Speed (m/sec) for Jacksonville, Florida, Station Number 33018

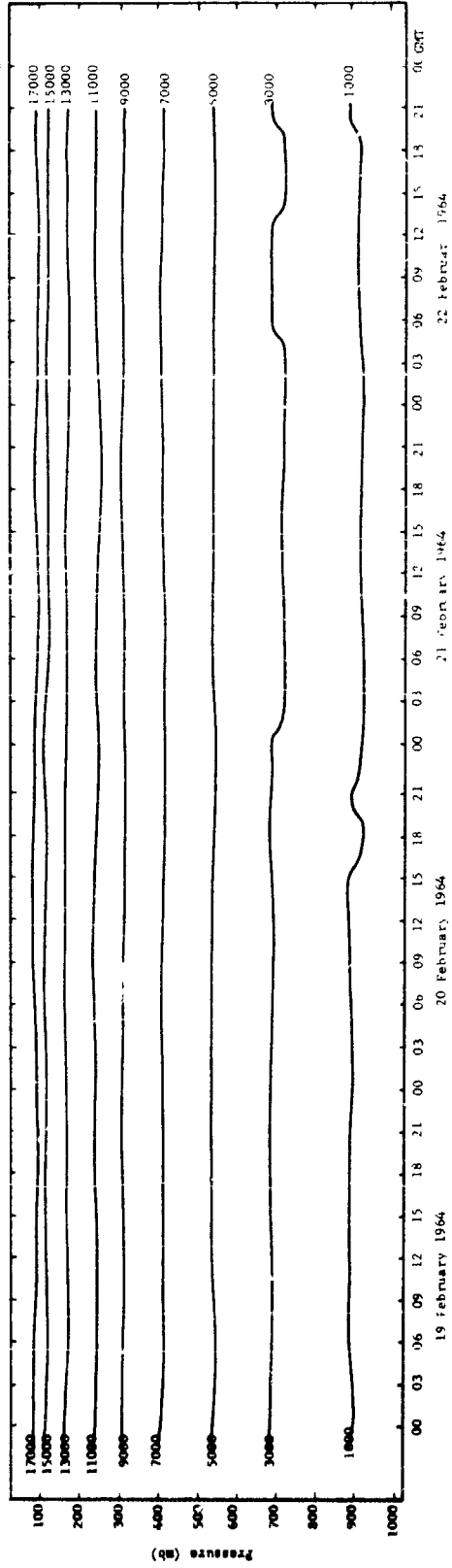
NOTE: Interval not constant



Relative Humidity (%) for Jacksonville, Florida, Station Number 33018



Dewpoint Depression (°C) for Jacksonville, Florida, Station Number 33018

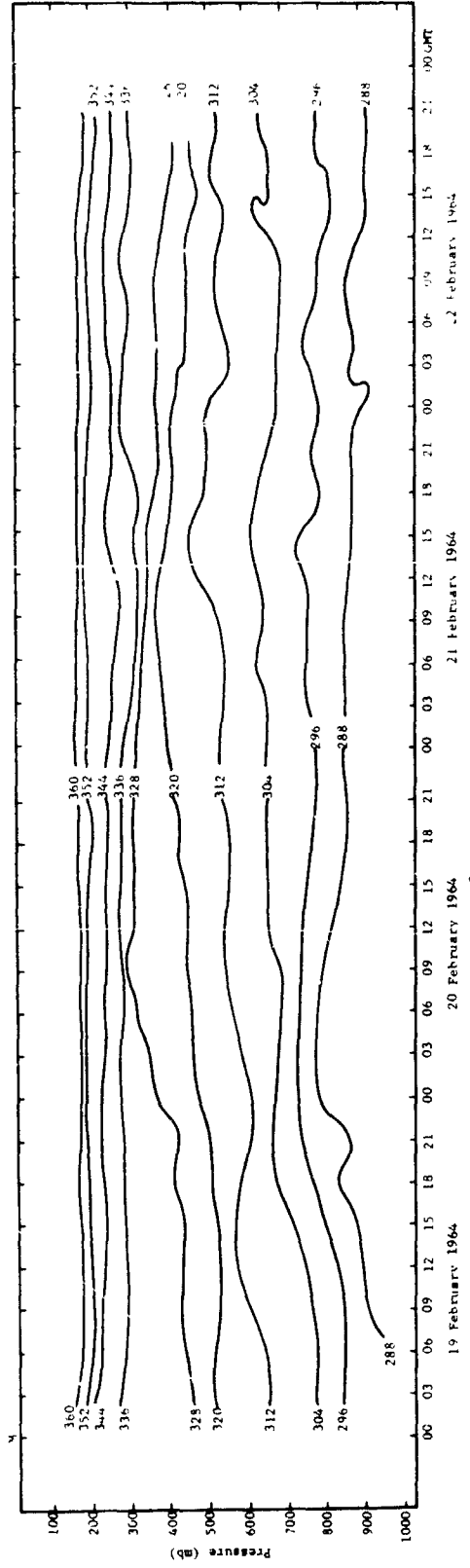


Height (gpm) for Jacksonville, Florida, Station Number 33018

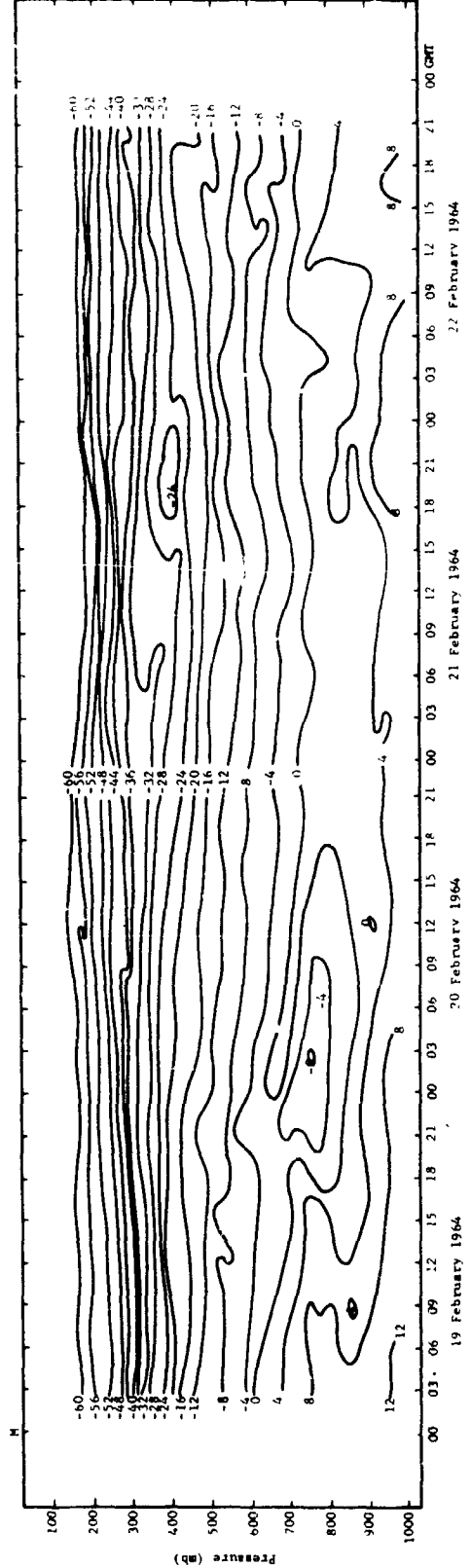
As the pressure decreases, the height of the atmosphere increases. The pressure at sea level is 1013.25 mb. The pressure at the top of the atmosphere is 0.0001 mb. The height of the atmosphere is 10000 km.

Station Number 33019

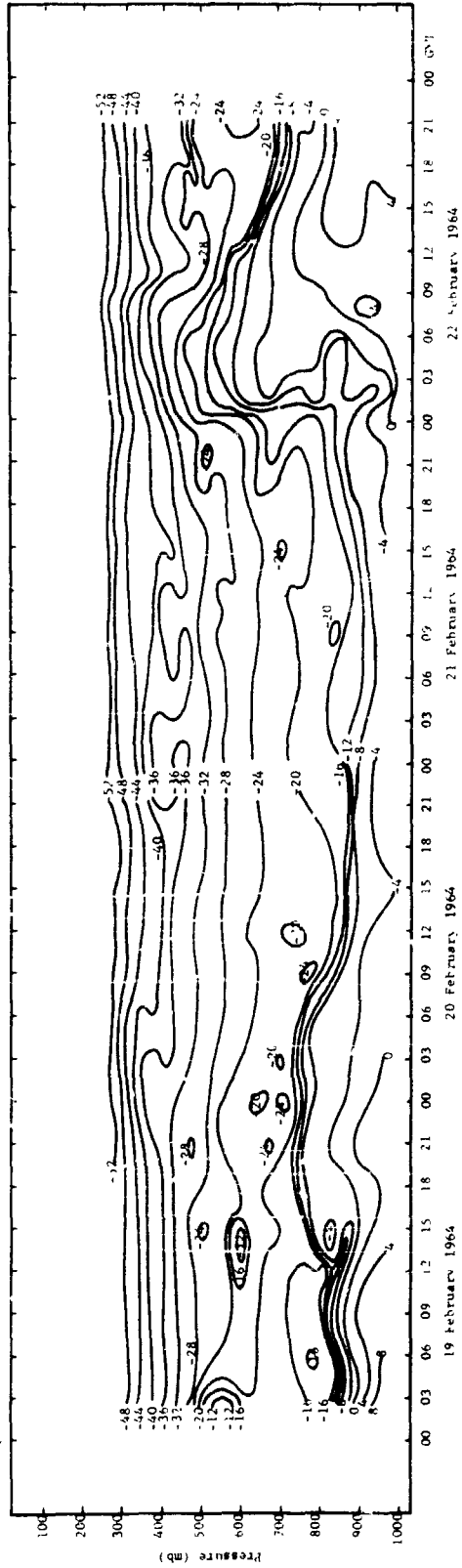
Tampa, Florida



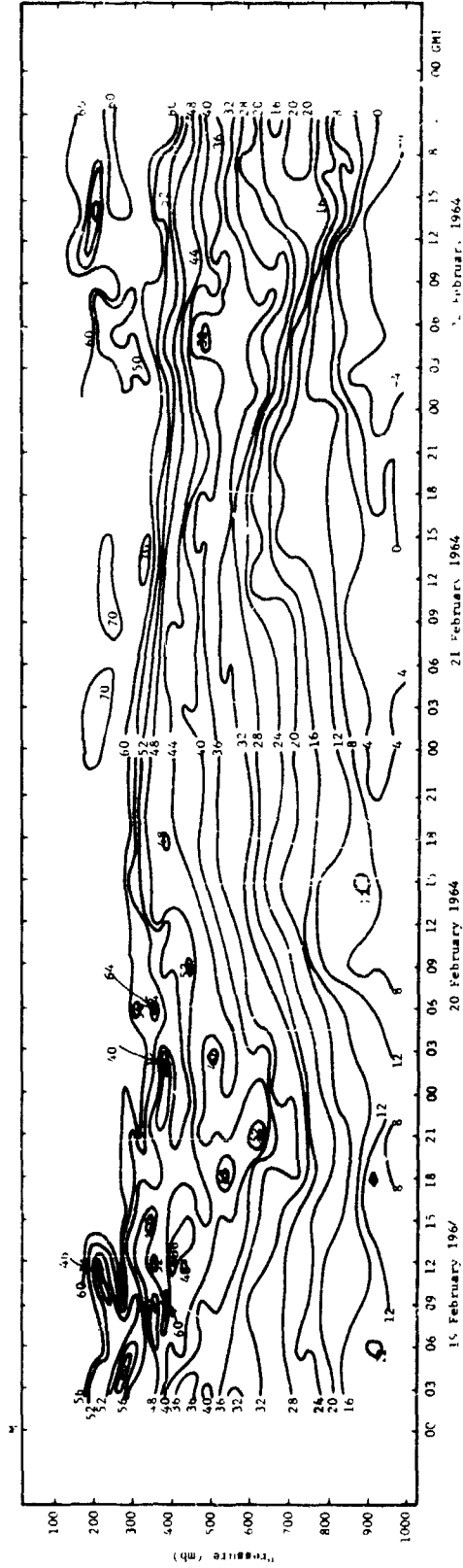
Potential Temperature ($^{\circ}$ K) for Tampa, Florida, Station Number 33019



Temperature ($^{\circ}$ C) for Tampa, Florida, Station Number 33019

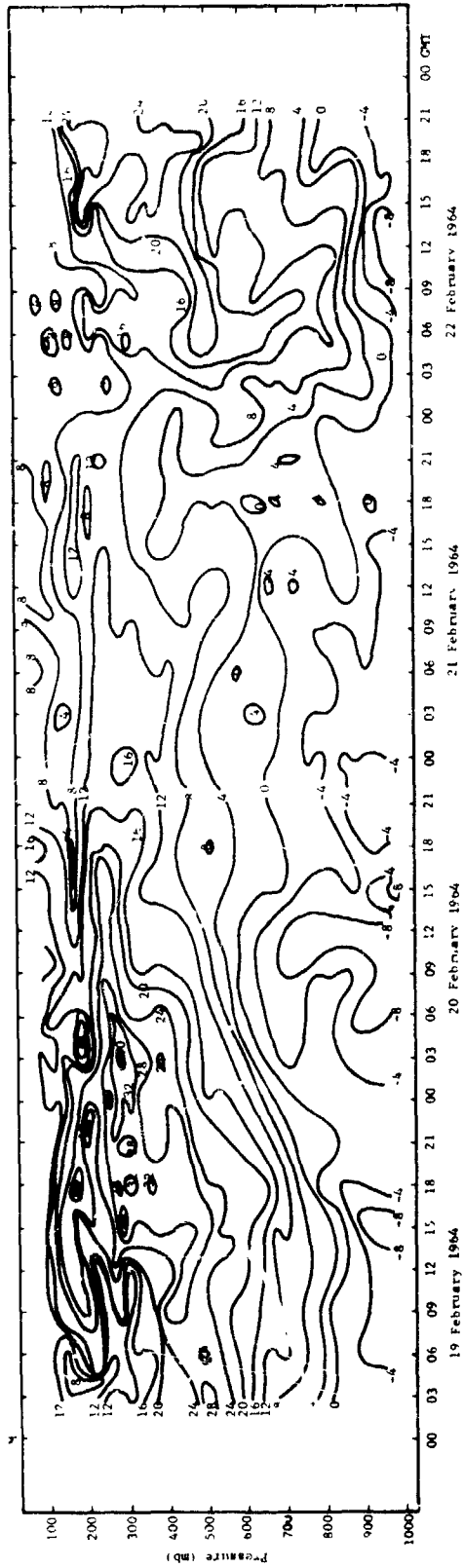


Dewpoint Temperature ($^{\circ}$ C) for Tampa, Florida, Station Number 33019

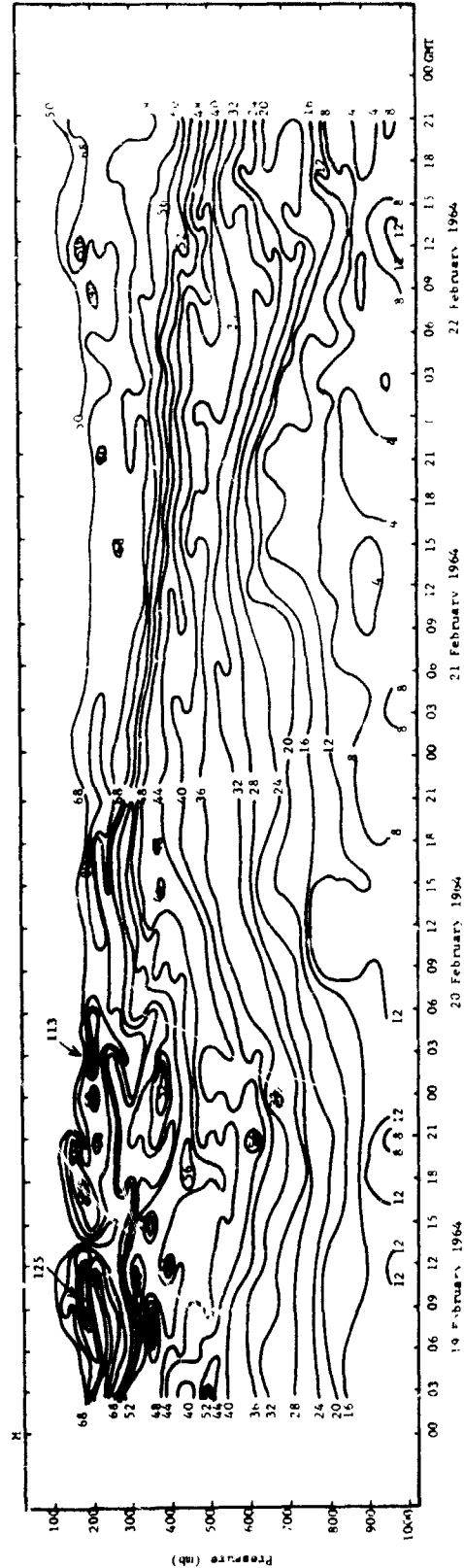


Zonal Wind Component (m/sec) for Tampa, Florida, Station Number 33019

NOTE: Interval not constant

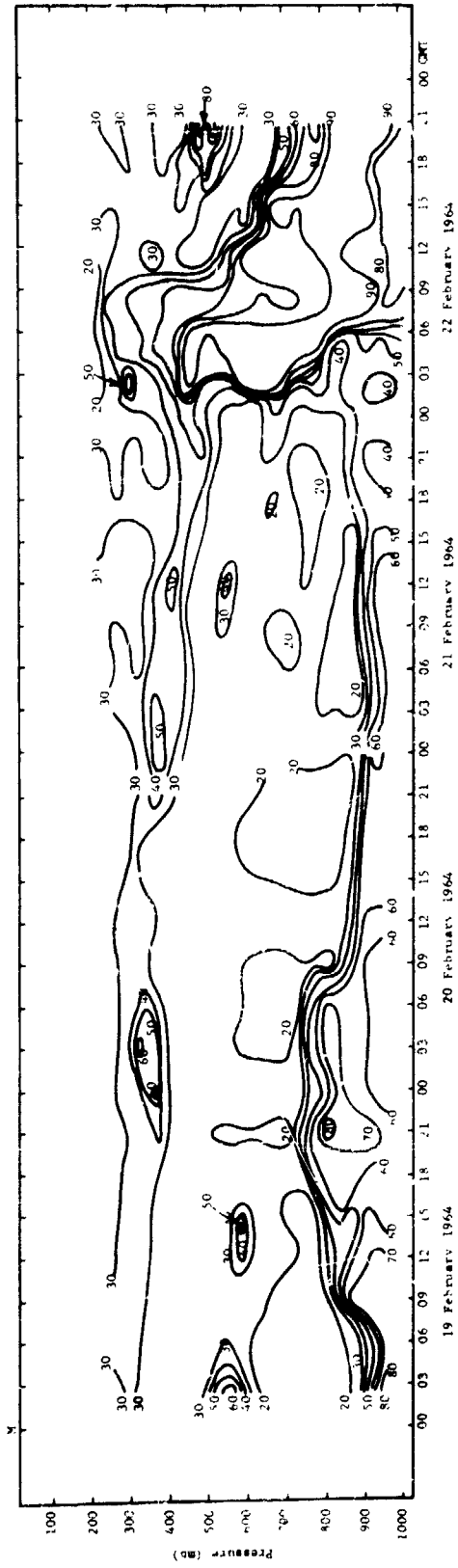


Meridional Wind Component (m/sec) for Tampa, Florida, Station Number 33019

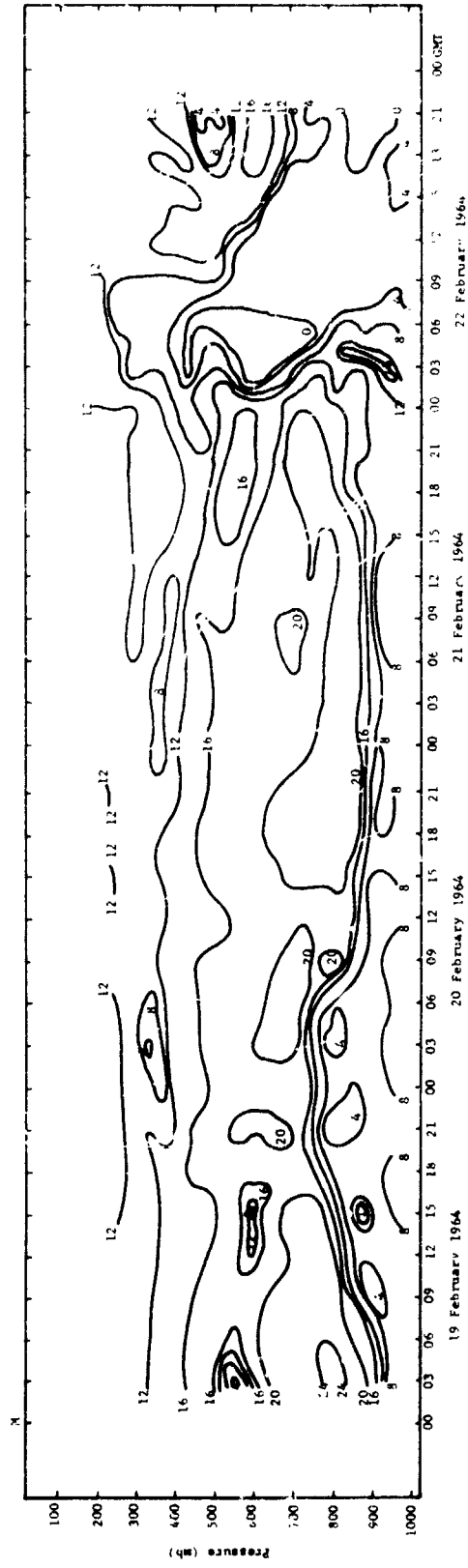


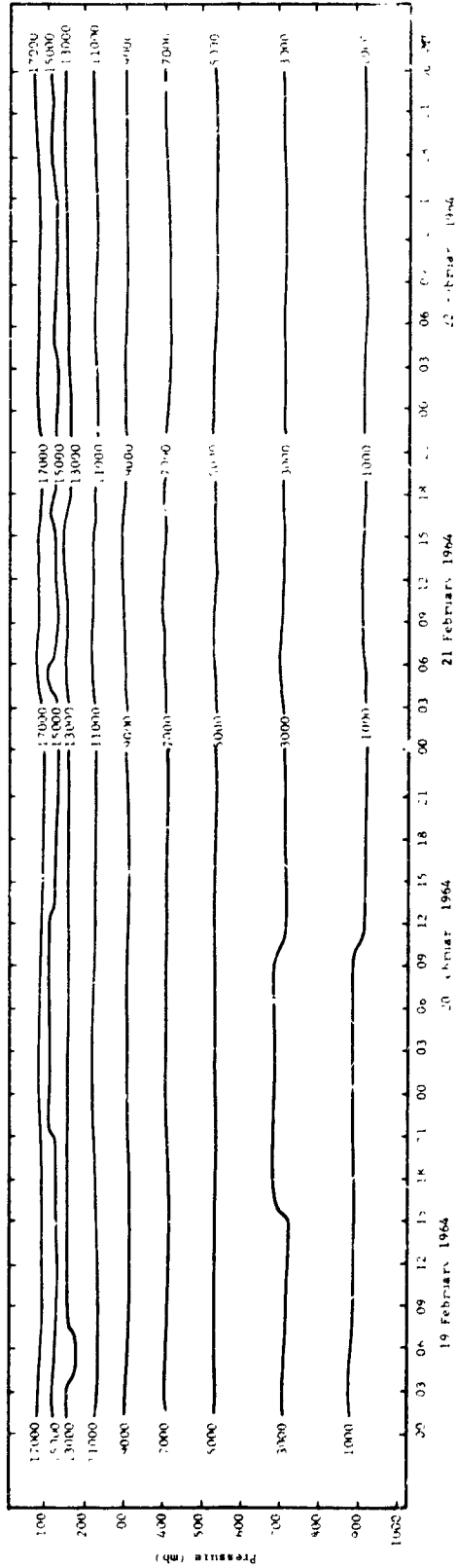
Wind Speed (m/sec) for Tampa, Florida, Station Number 33019

NOTE: Interval not constant



Relative Humidity (%) for Tampa, Florida, Station Number 33019

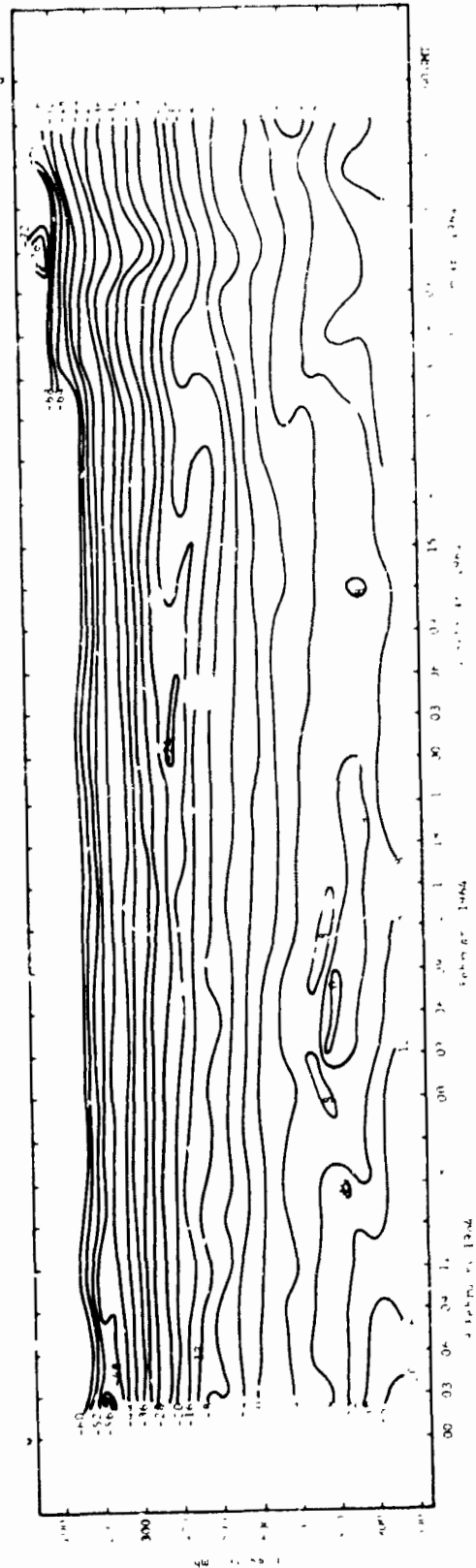
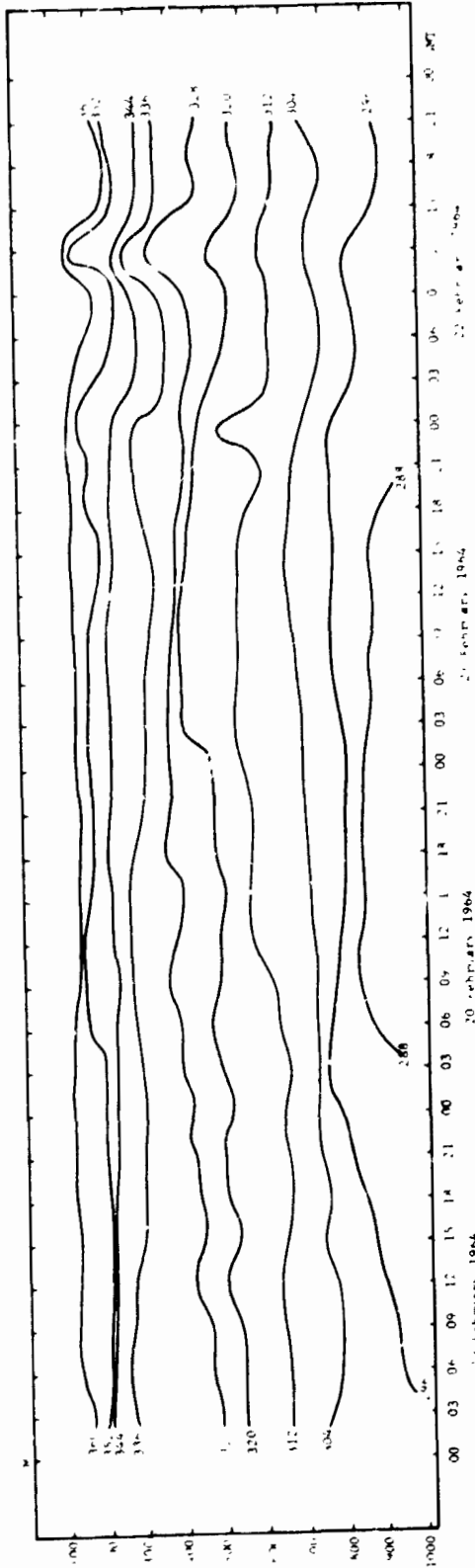


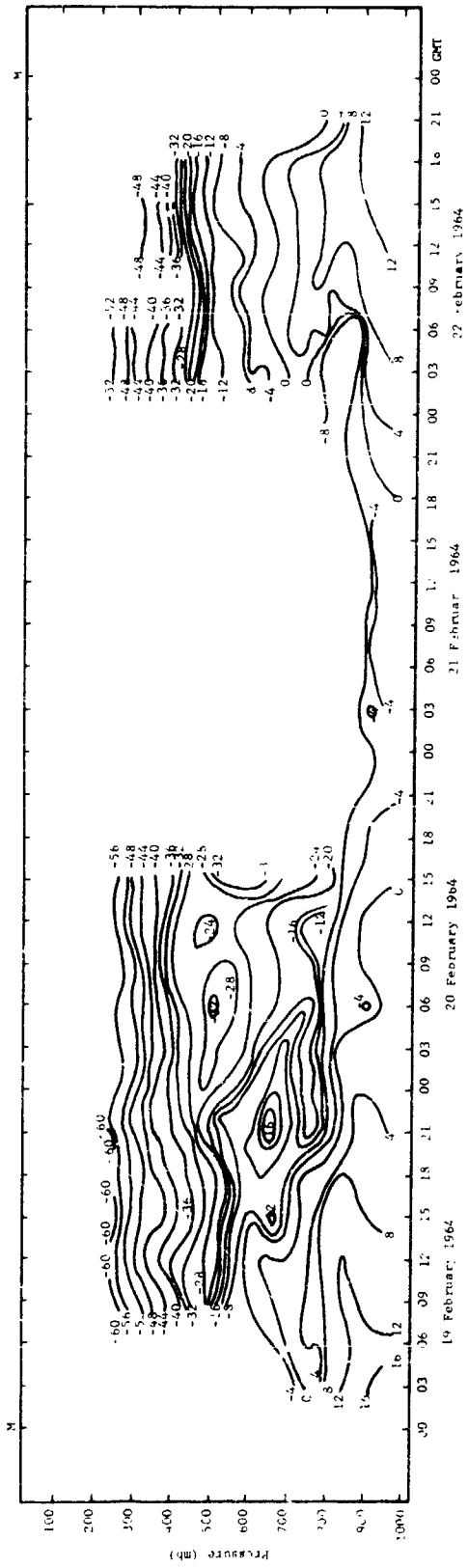


Height (gpm) to Tampa, Florida, Station Number 33019

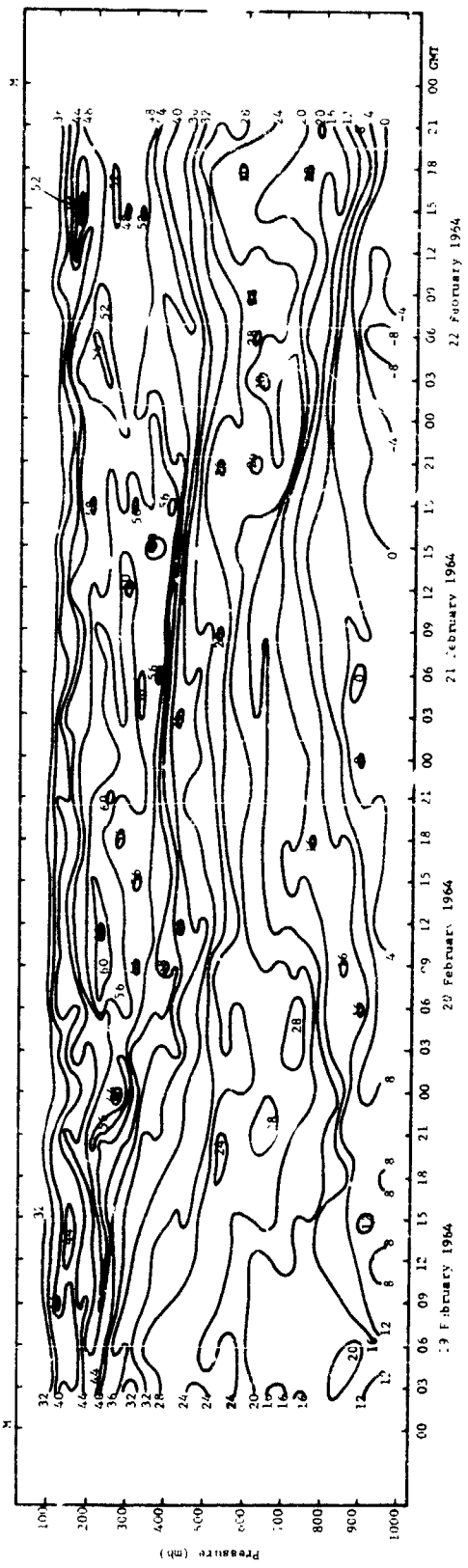
Station Number 33020

Miami, Florida

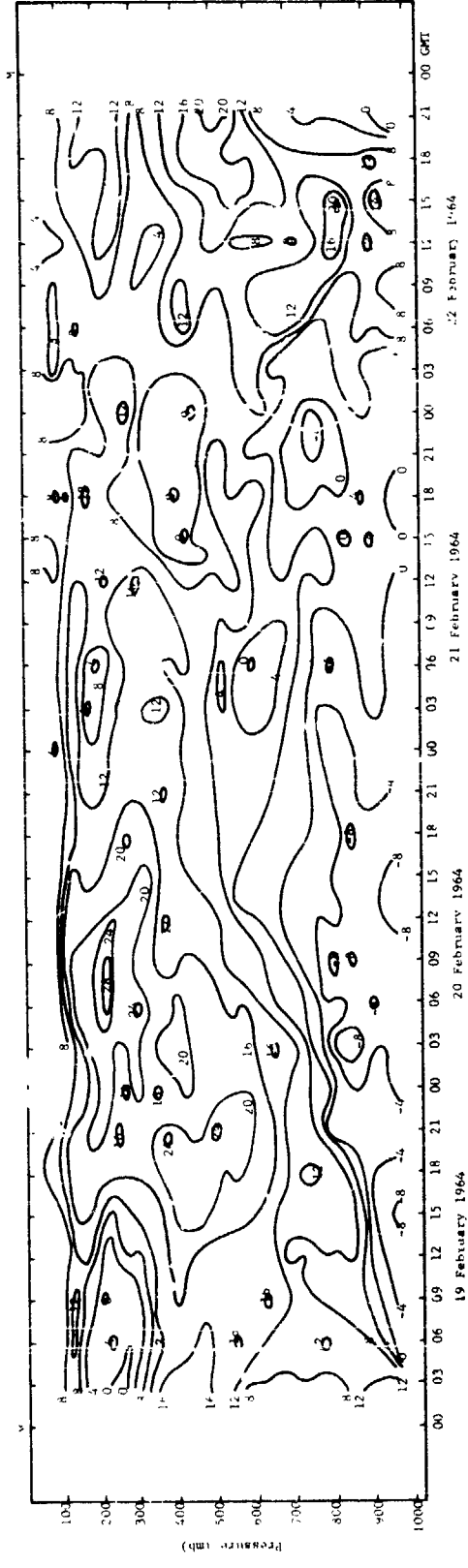




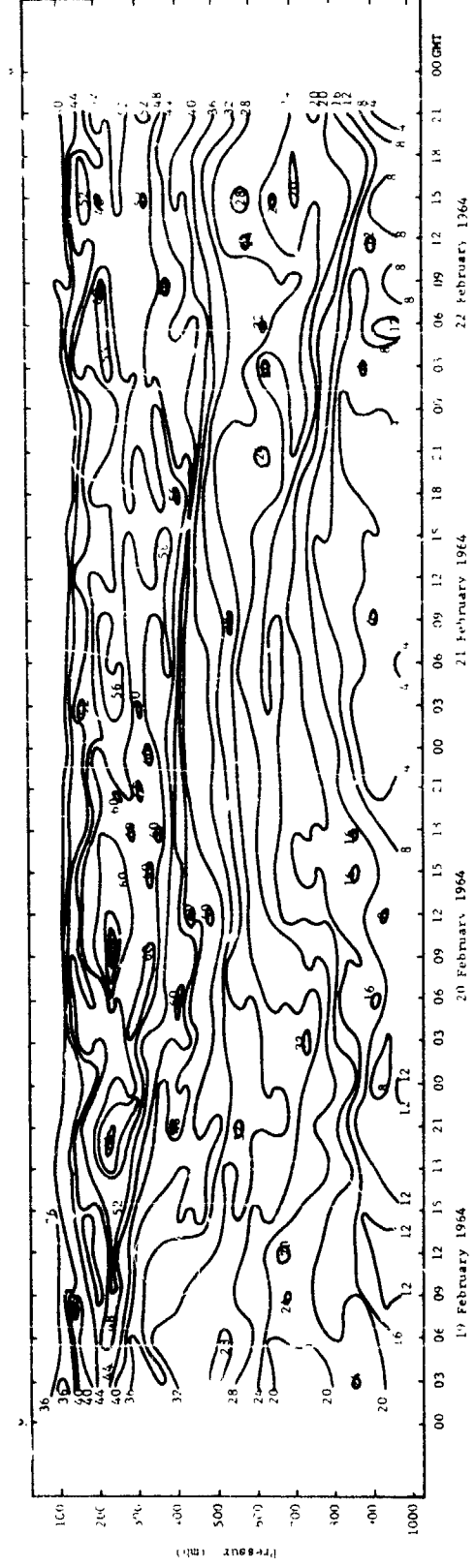
Dewpoint Temperature (°C) for Miami, Florida, Station Number 33020



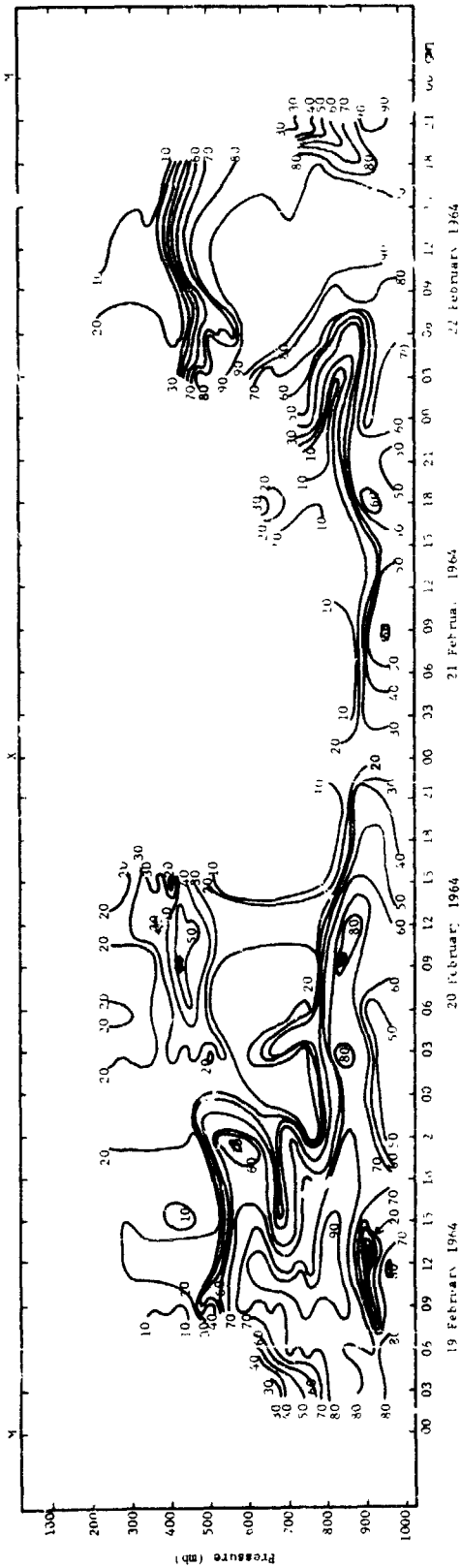
Zonal Wind Component (m/sec) for Miami, Florida, Station Number 33020



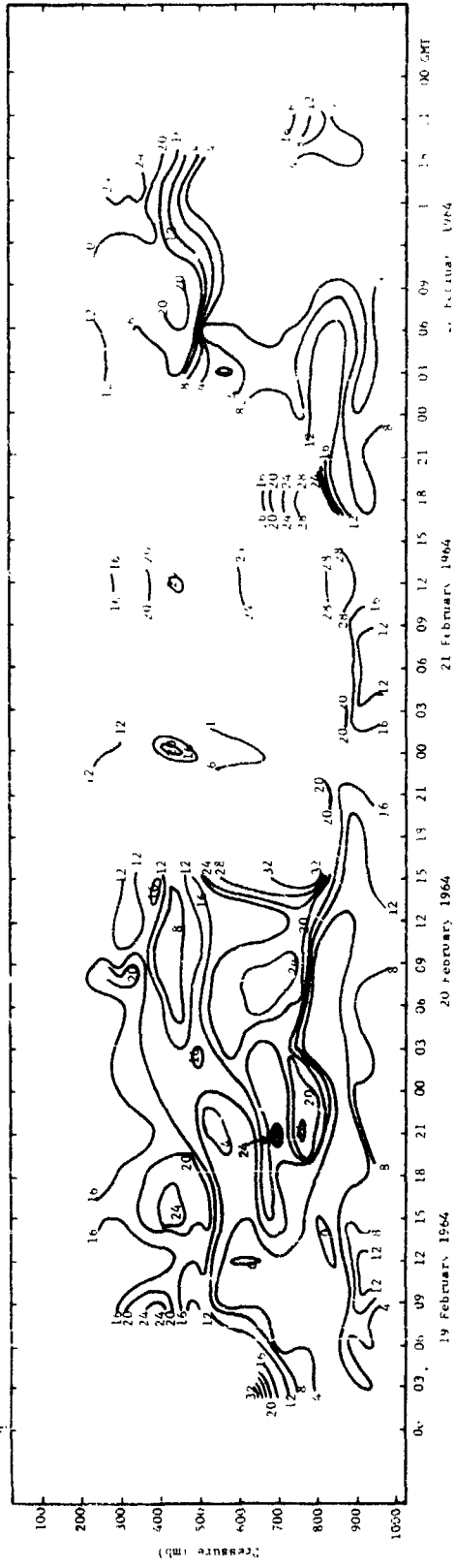
Meridional Wind Component (m/sec) for Miami, Florida, Station Number 33020



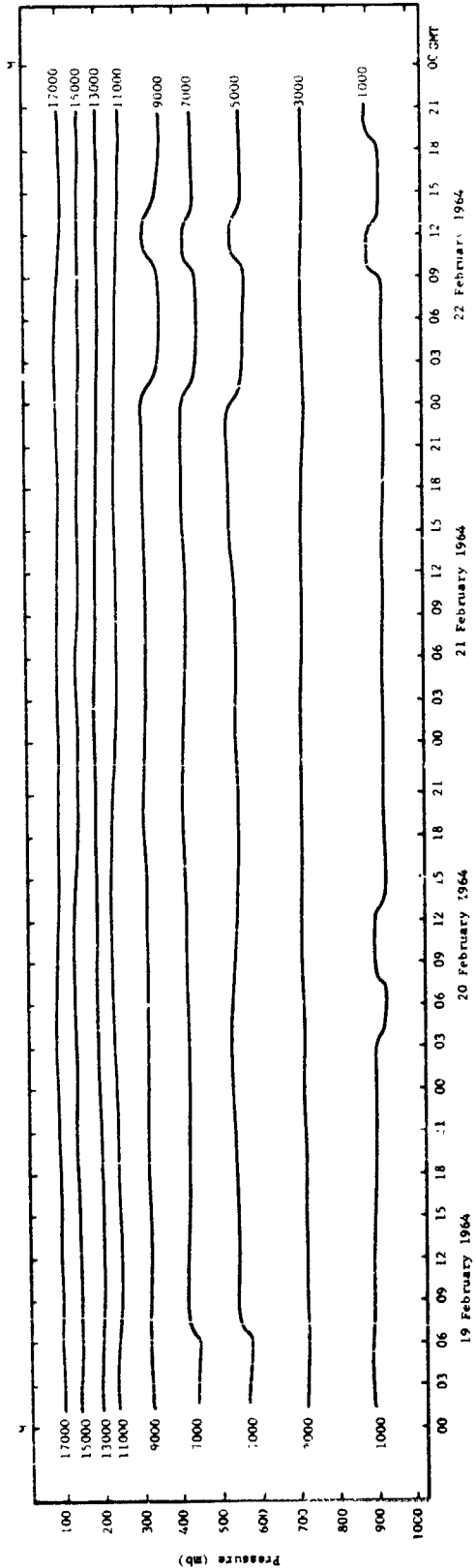
Wind Speed (m/sec) for Miami, Florida, Station Number 33020



Relative Humidity (%) for Miami, Florida, Station Number 33020



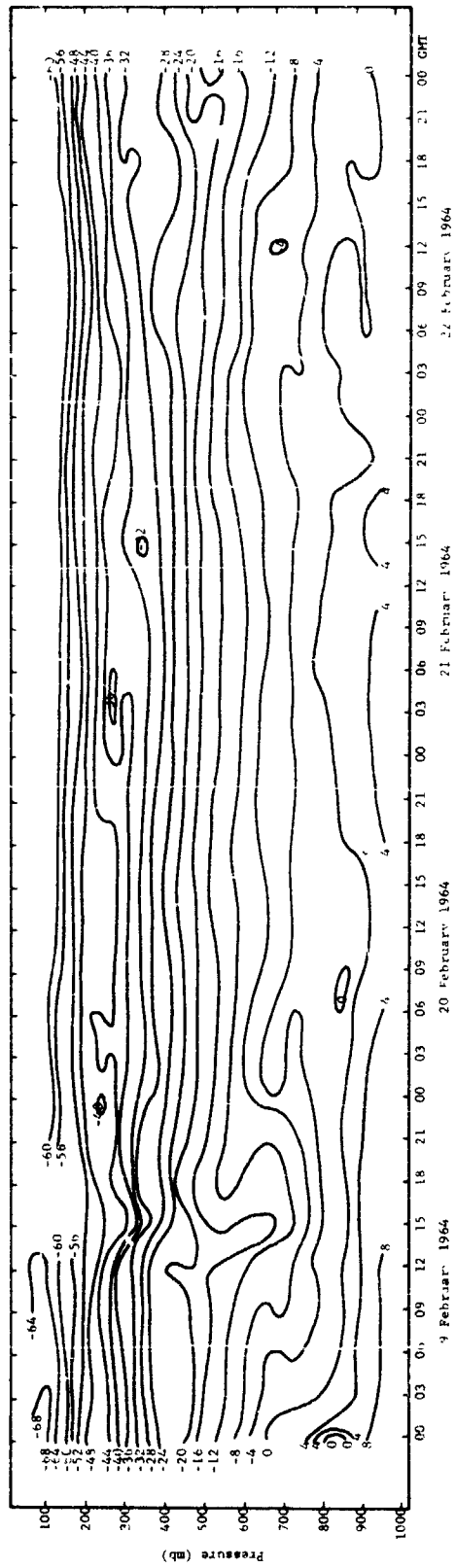
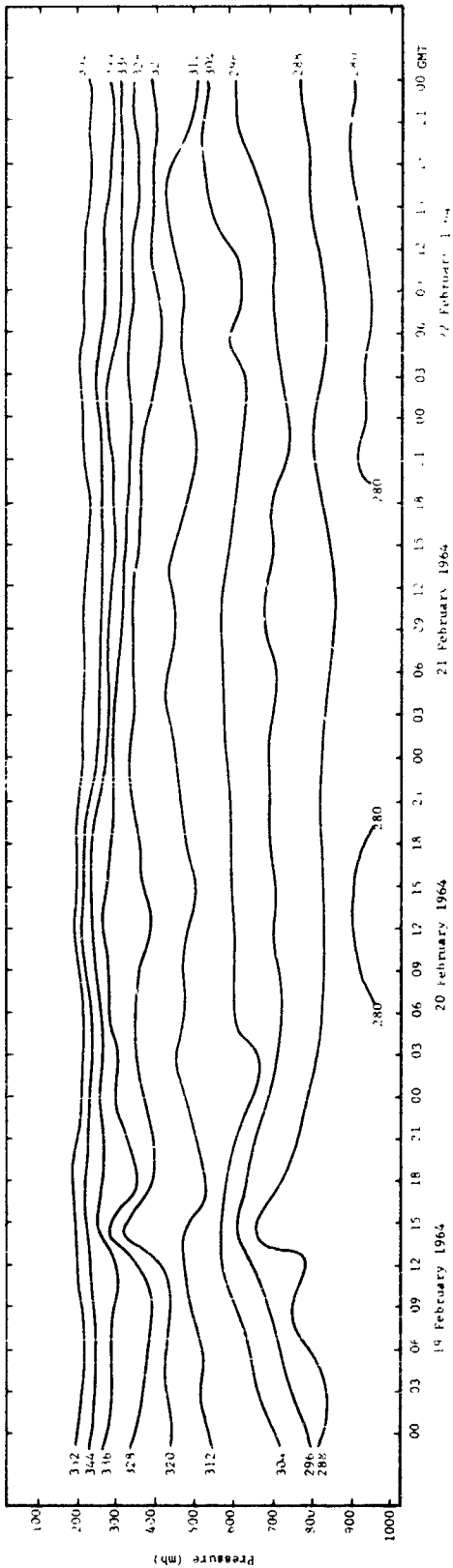
Dewpoint Depression (°C) for Miami, Florida, Station Number 33020

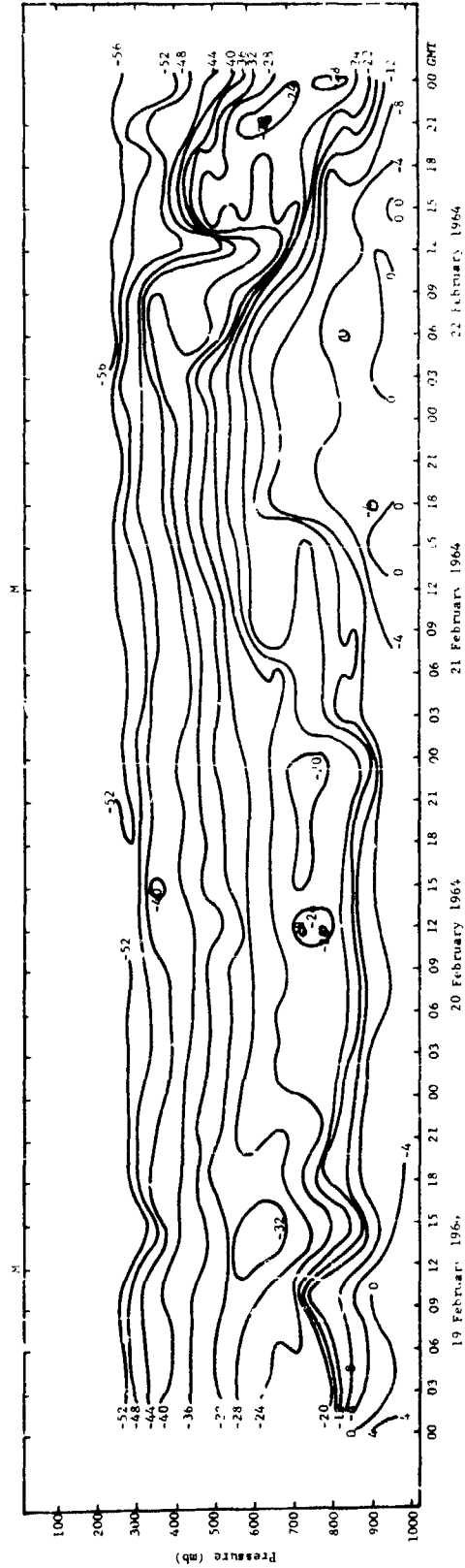


Height (gpm) for Miami, Florida, Station Number 33020

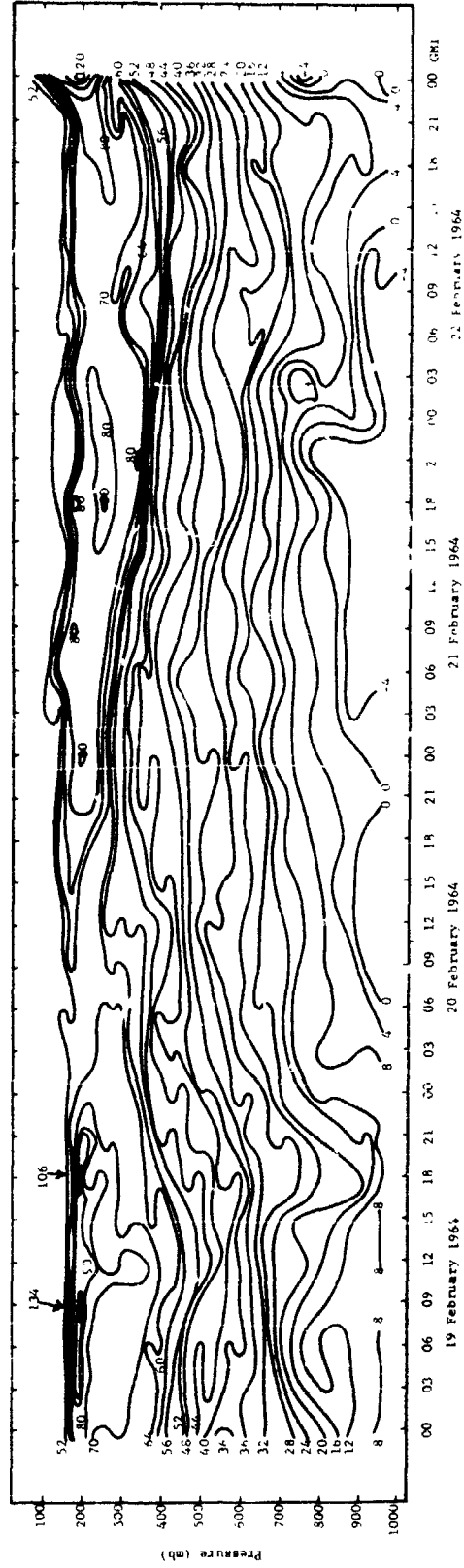
Station Number 33021

Burrwood, Louisiana



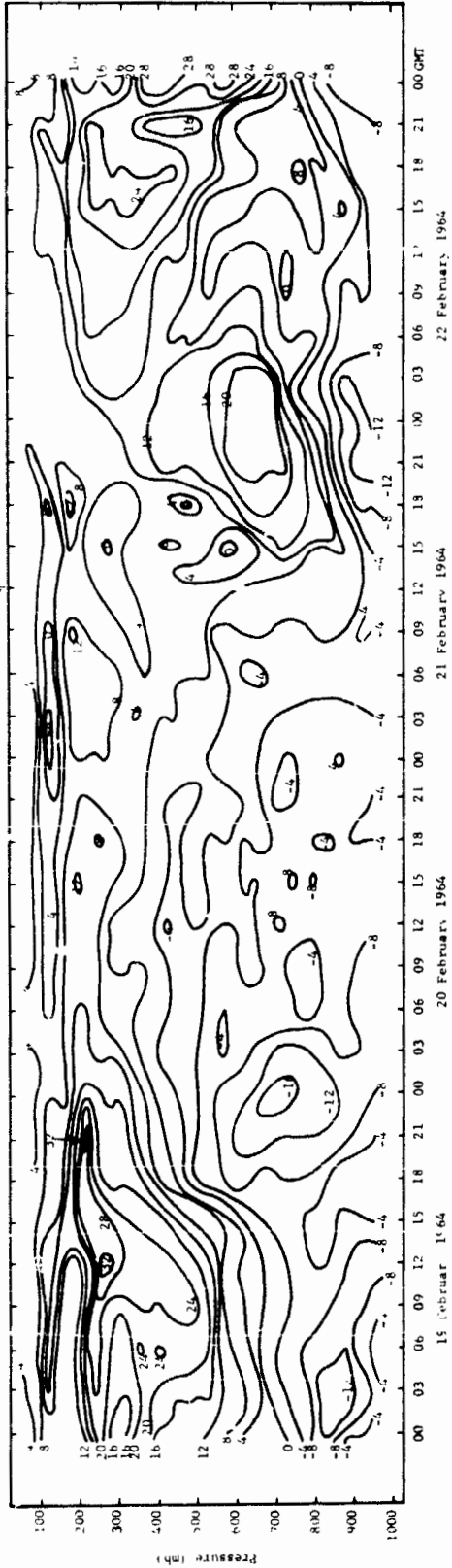


Dewpoint Temperature (°C) for Burwood, Louisiana, Station Number 33021

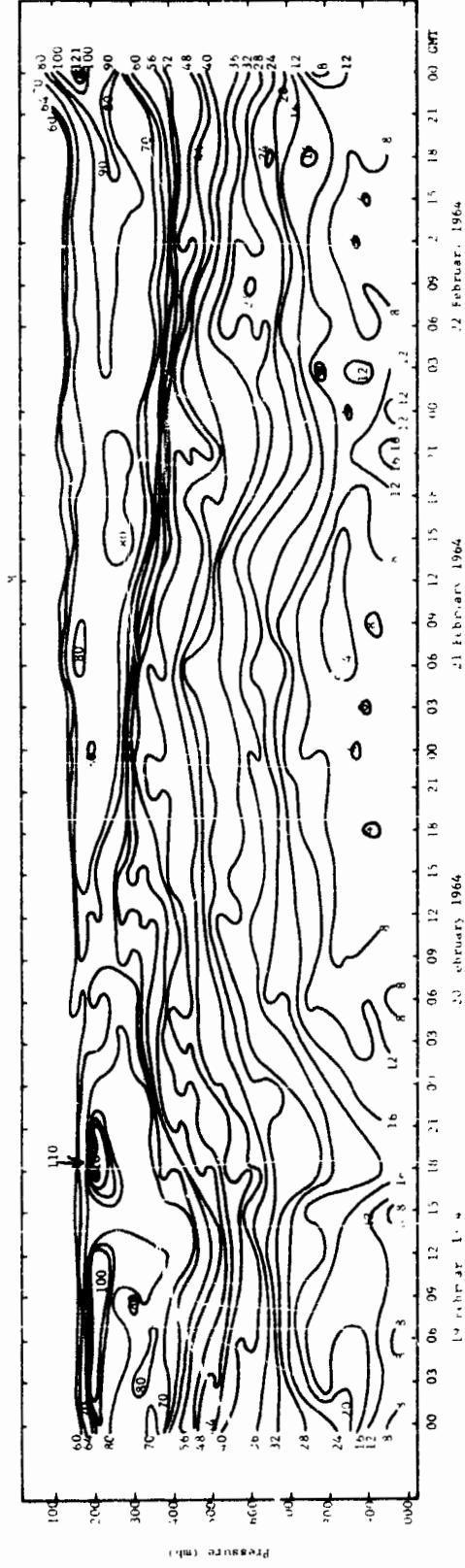


NOTE: Interval not constant

Zonal Wind Component (m/sec) for Burwood, Louisiana, Station Number 33021

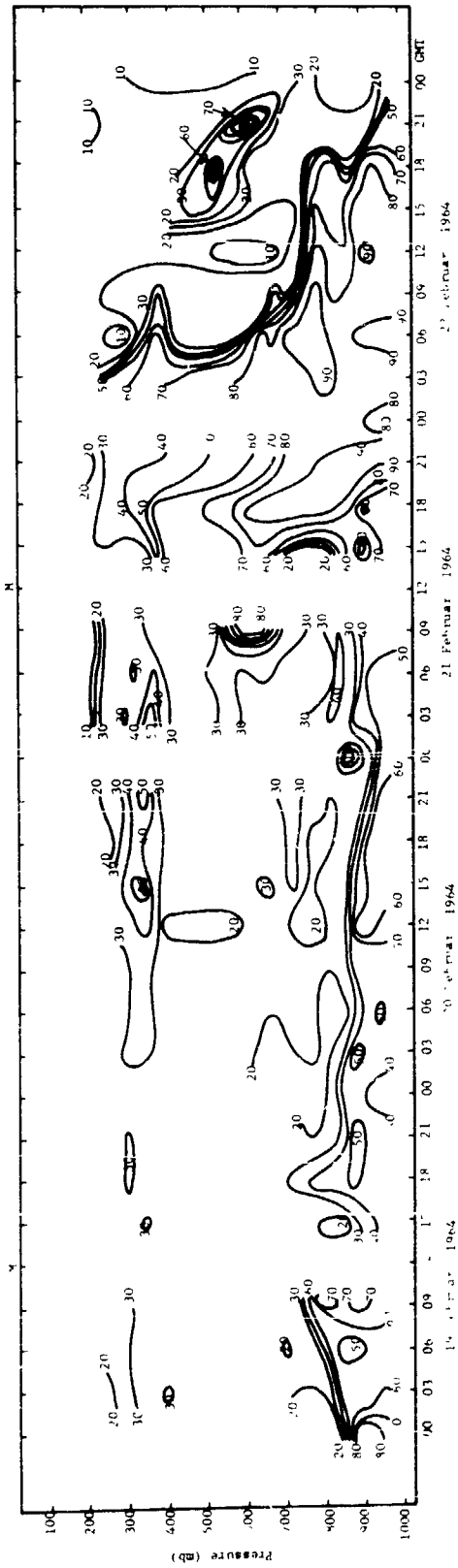


Meridional Wind Component (m/sec) for Burrwood, Louisiana, Station Number 33021

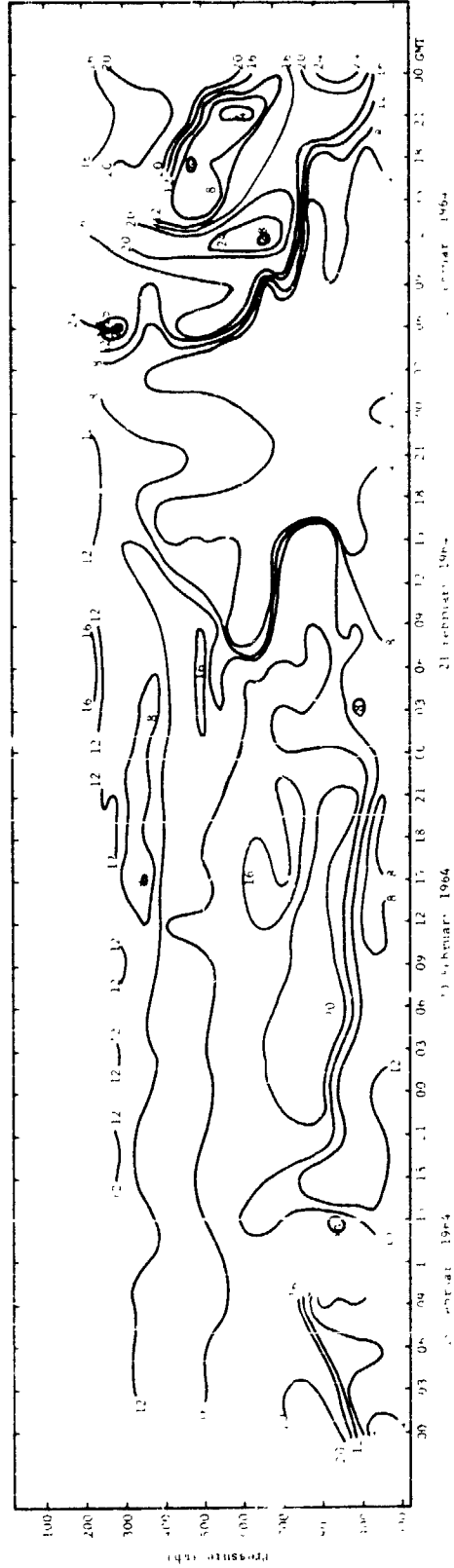


Wind Speed (m/sec) for Burrwood, Louisiana, Station Number 33021

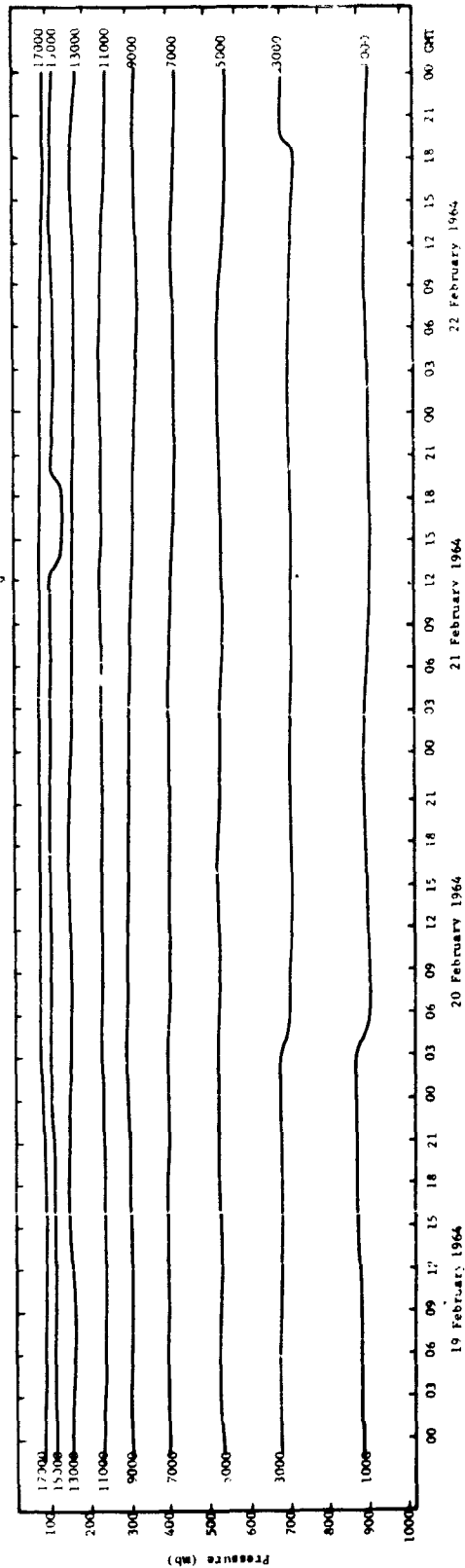
NOTE: Interval not constant



Relative Humidity (%) for Burrwood, Louisiana, Station Number 33021



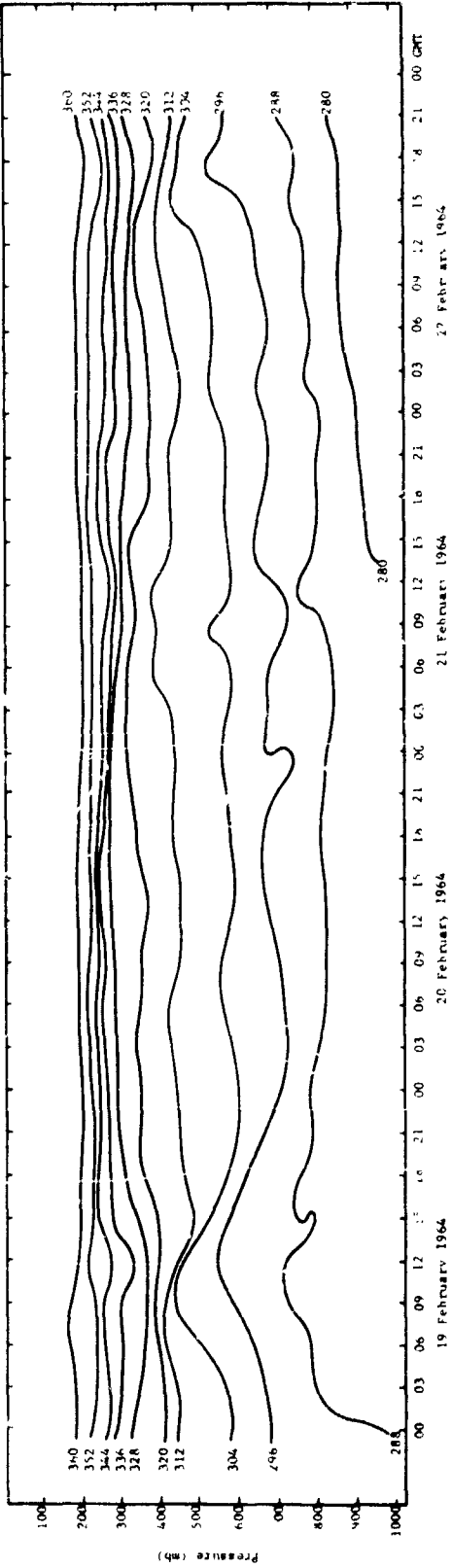
Dewpoint Depression ($^{\circ}\text{C}$) for Burrwood, Louisiana, Station Number 33021



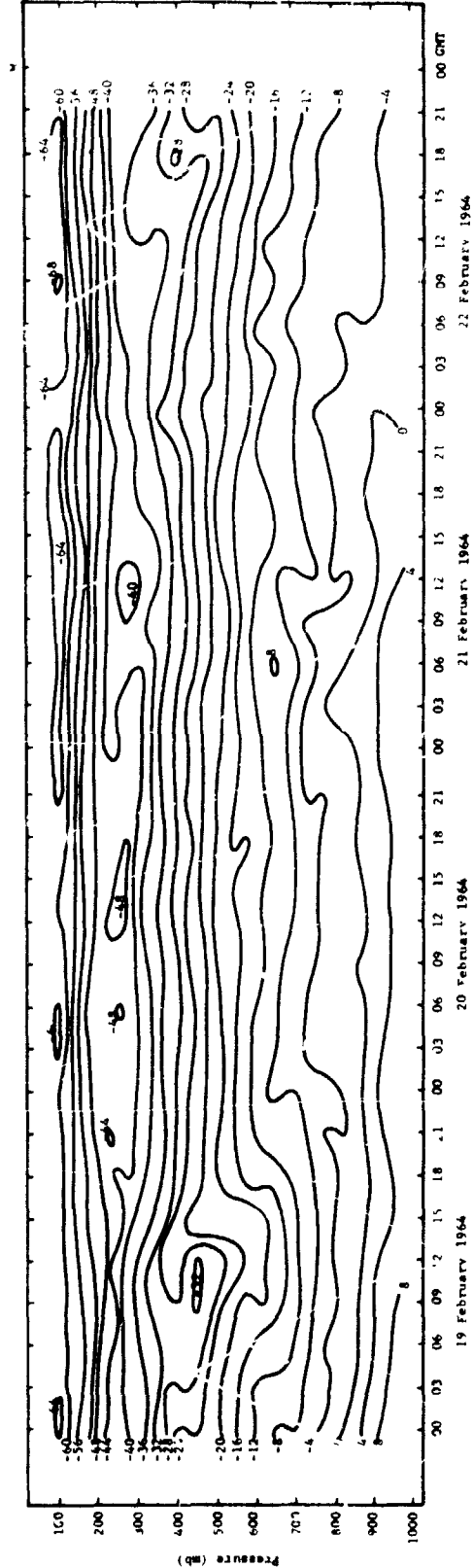
Height (gpm) for Burrwood, Louisiana, Station Number 33021

Station Number 33022

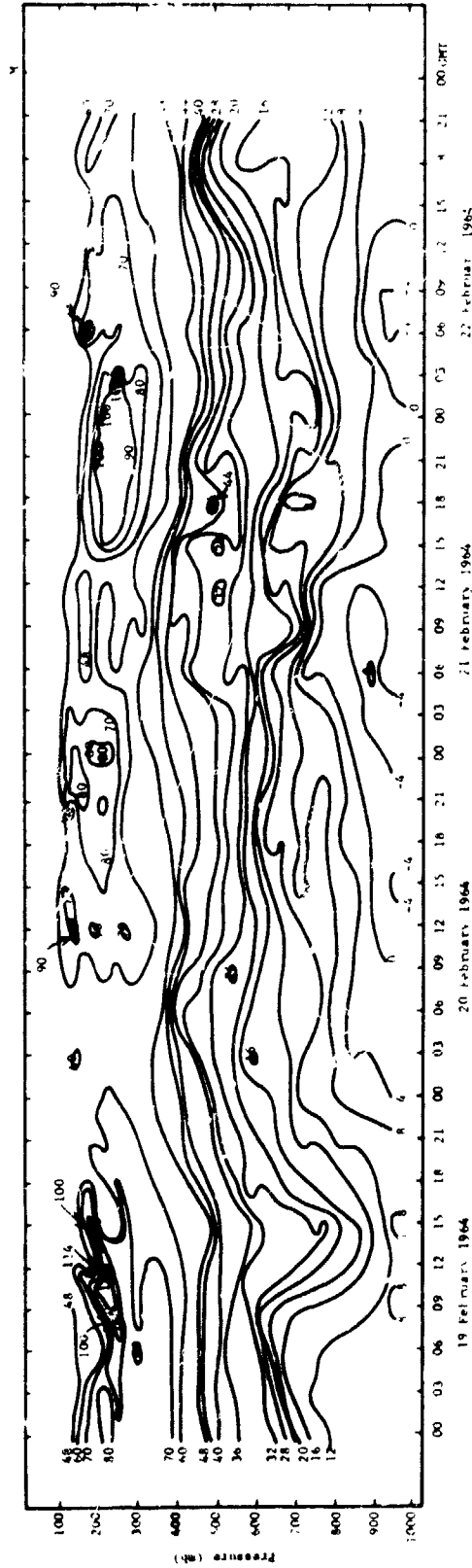
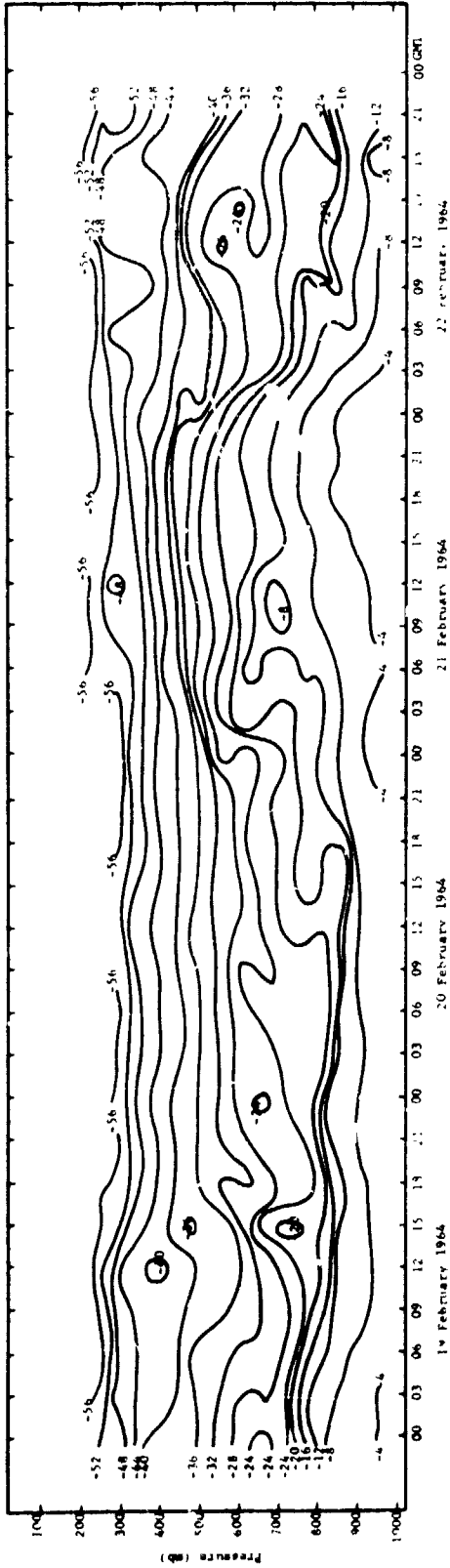
Lake Charles, Louisiana



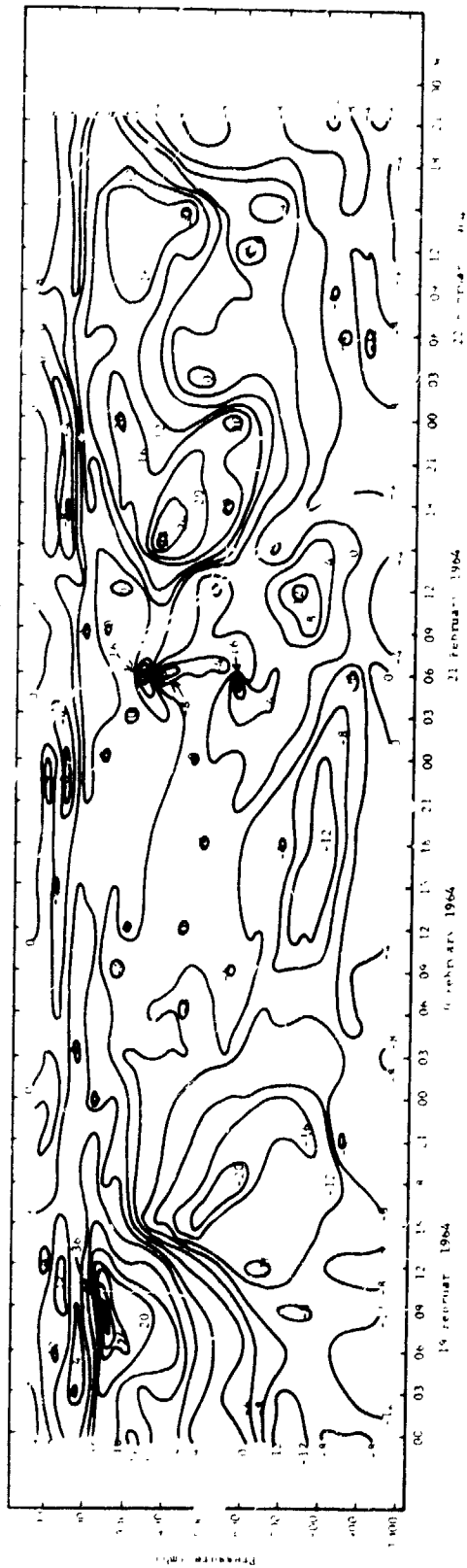
Potential Temperature ($^{\circ}$ K) for Lake Charles, Louisiana, Station Number 33022



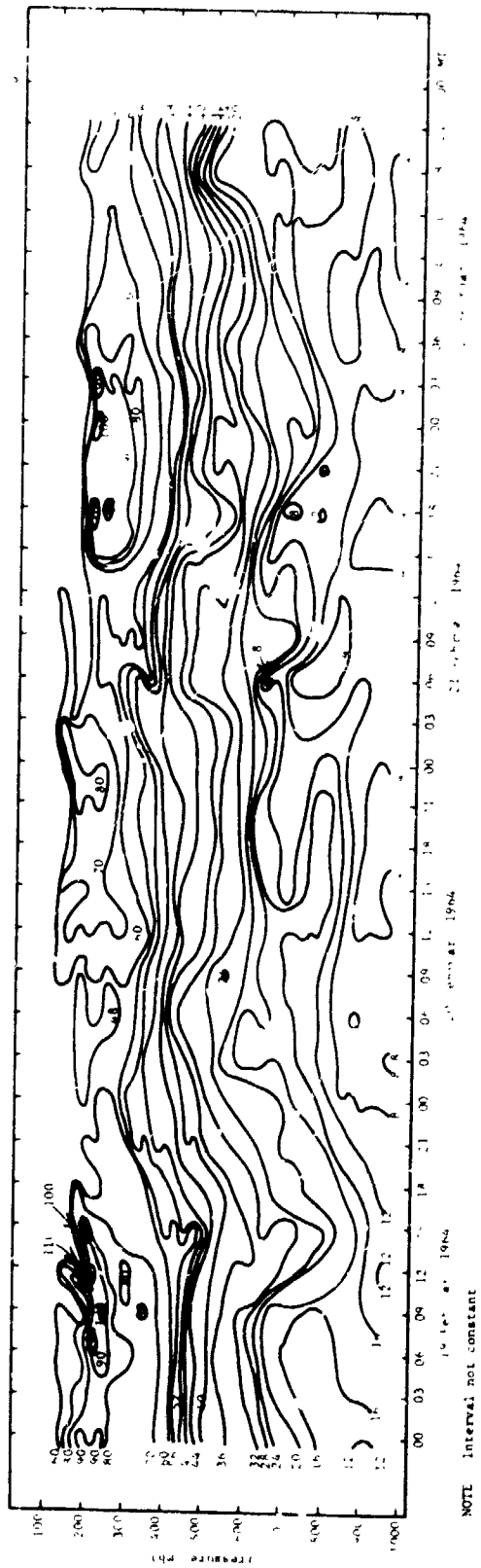
Temperature ($^{\circ}$ C) for Lake Charles, Louisiana, Station Number 33022



NOTE: Interval not constant

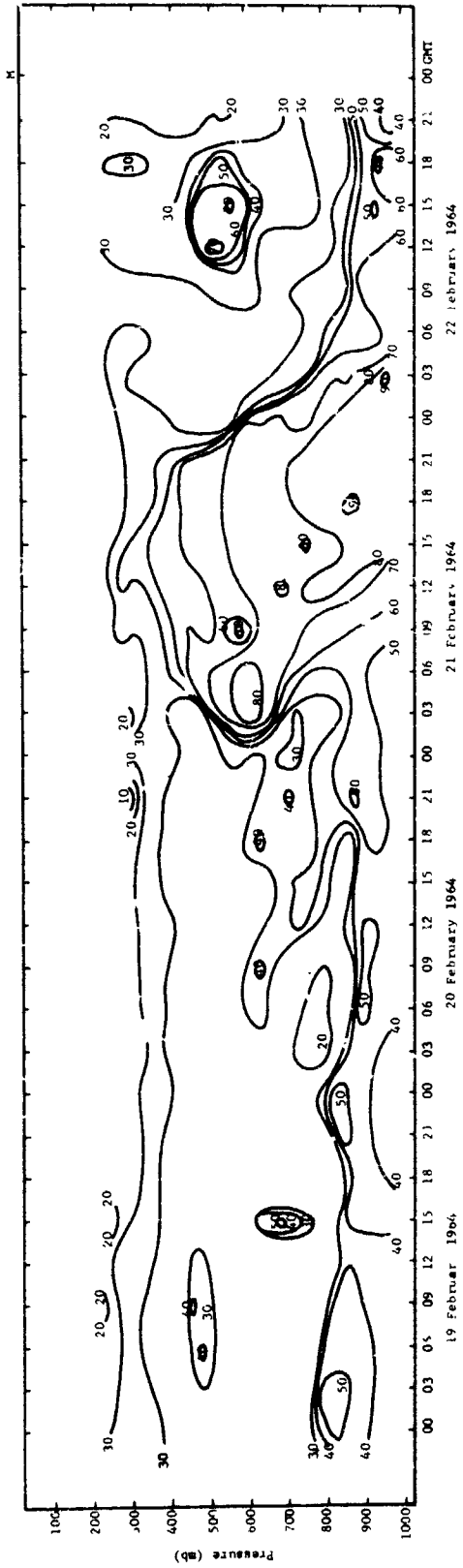


Meridional Wind Component (m/sec) for Lake Charles, Louisiana, Station Number 33022

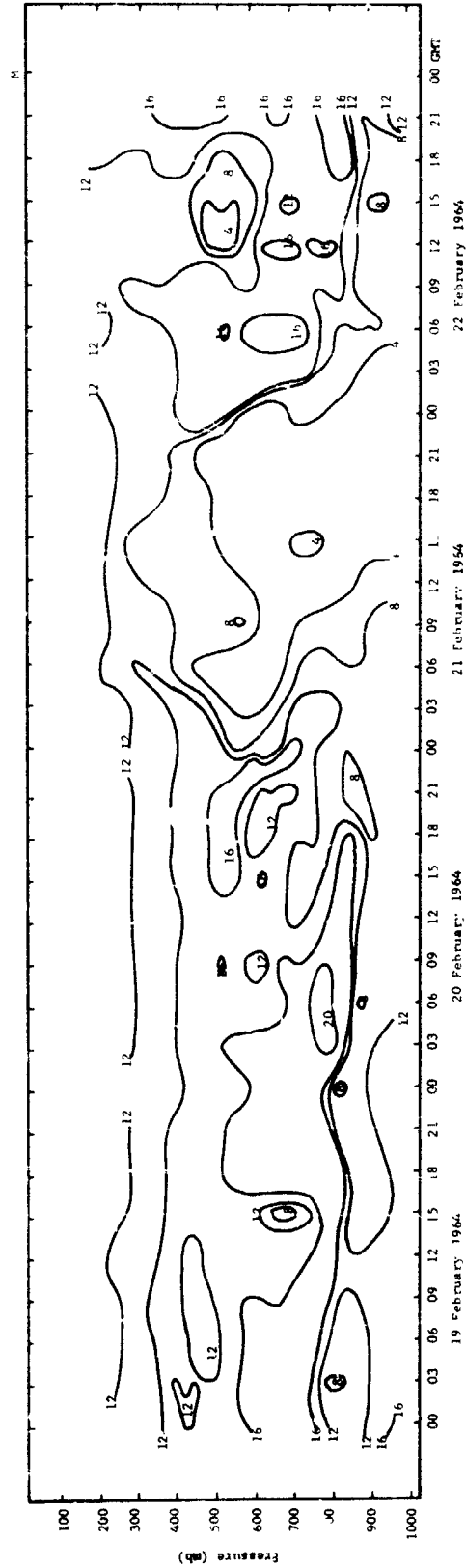


NOTE: Interval not constant

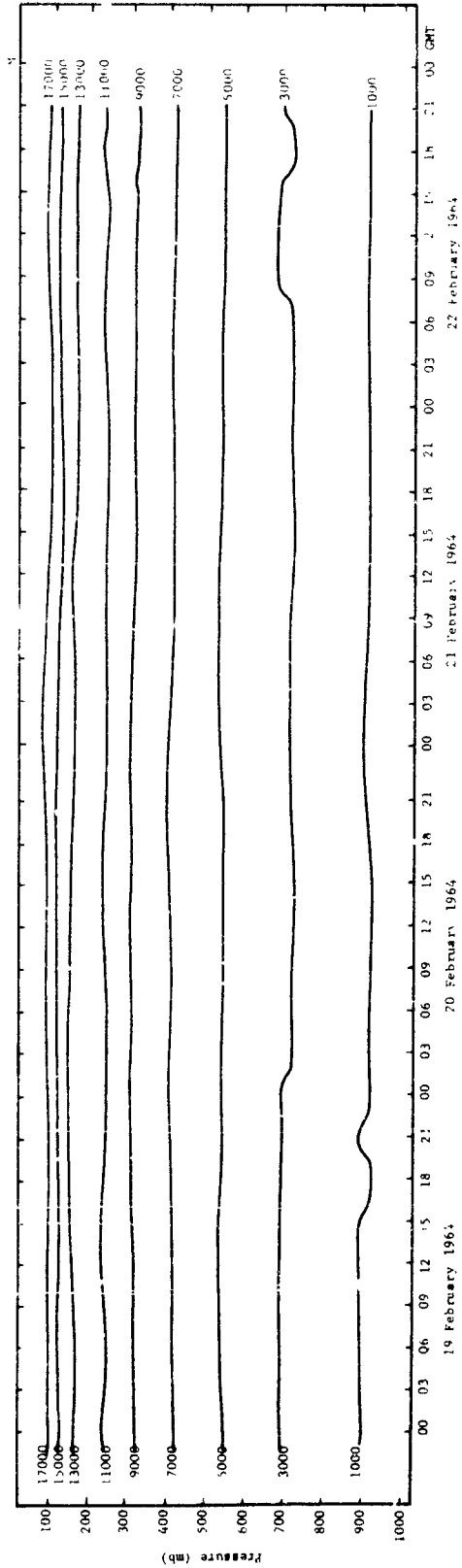
Wind Speed (m/sec) for Lake Charles, Louisiana, Station Number 33022



Relative Humidity (%) for Lake Charles, Louisiana, Station Number 33022



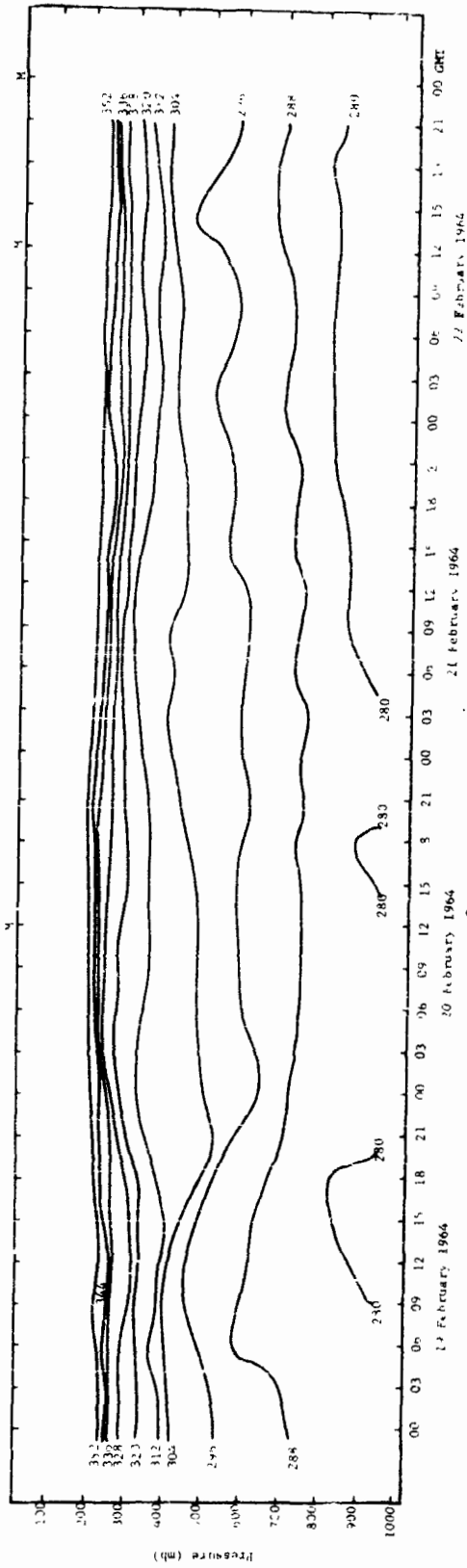
Dewpoint Depression (°C) for Lake Charles, Louisiana, Station Number 33022



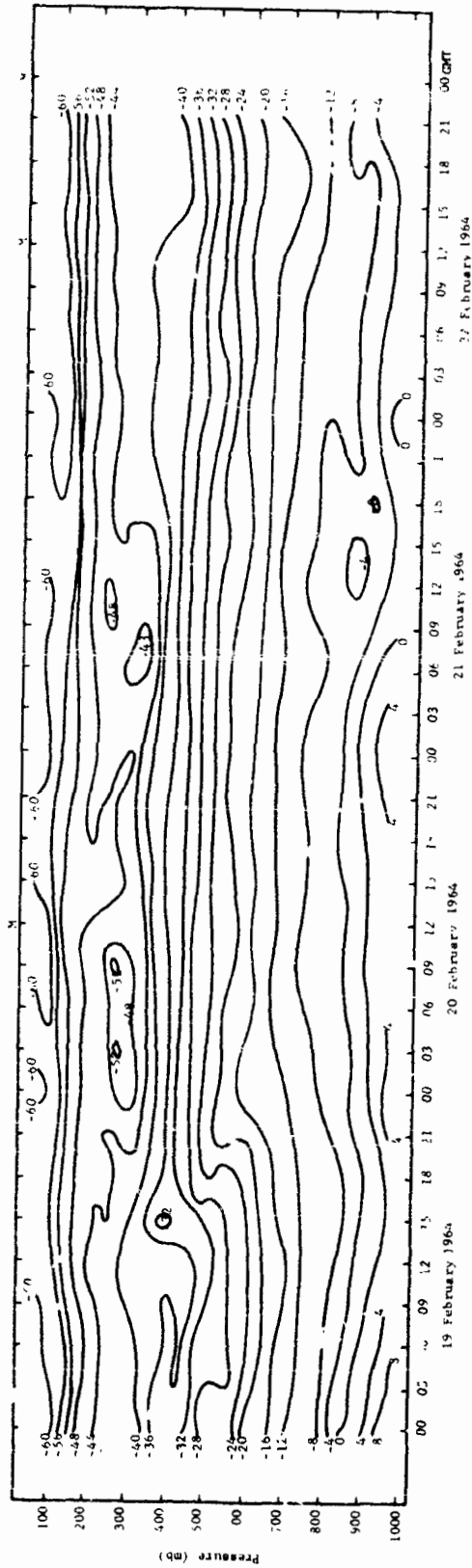
Height (gpm) for Lake Charles, Louisiana, Station Number 33022

Station Number 33023

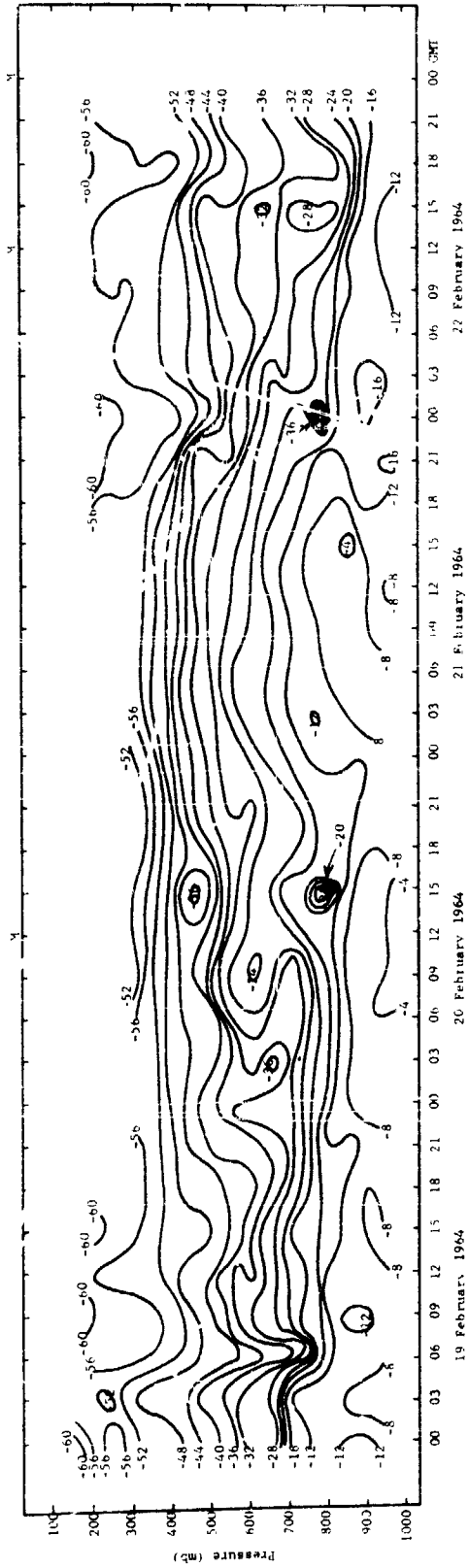
Shreveport, Louisiana



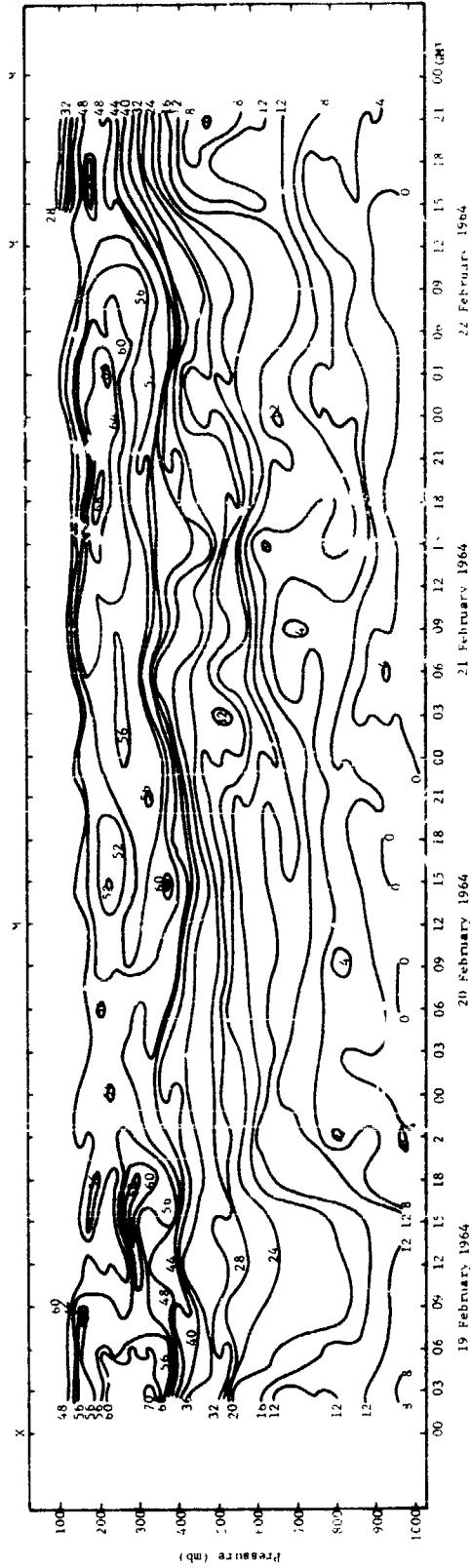
Potential Temperature ($^{\circ}\text{K}$) for Shreveport, Louisiana, Station Number 33023



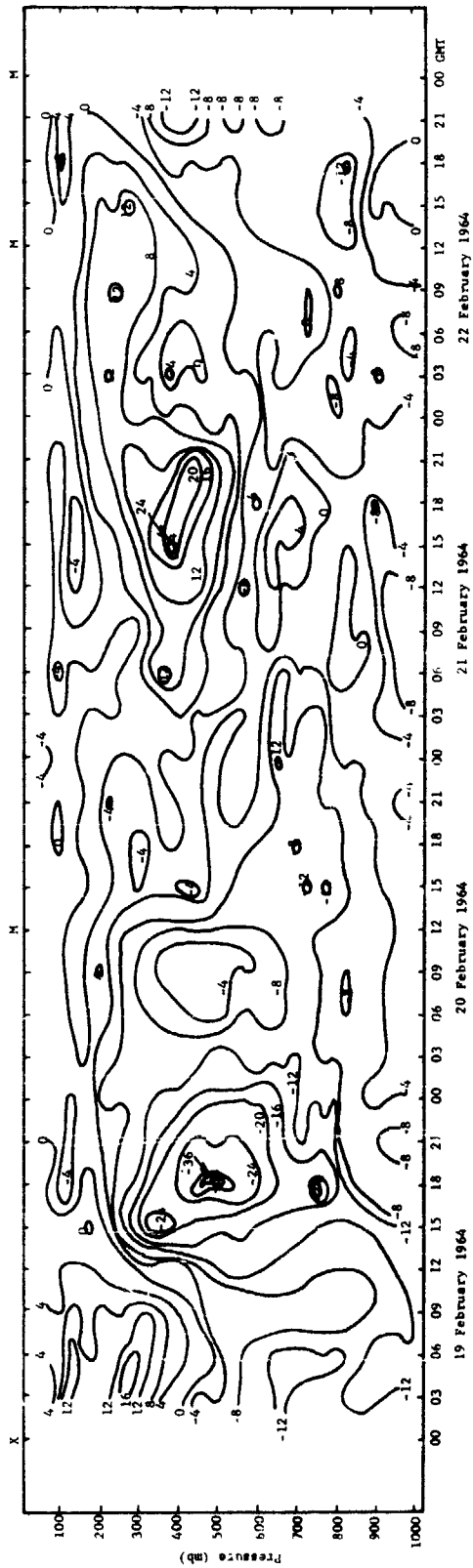
Temperature ($^{\circ}\text{C}$) for Shreveport, Louisiana, Station Number 33023



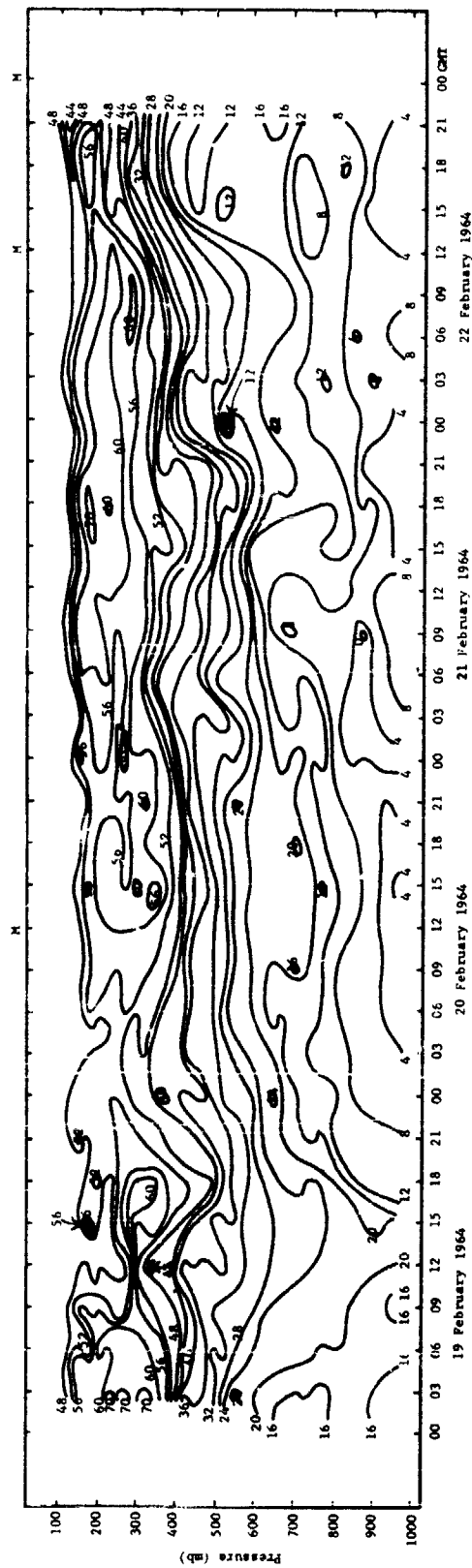
Dewpoint Temperature ($^{\circ}$ C) for Shreveport, Louisiana, Station Number 33023



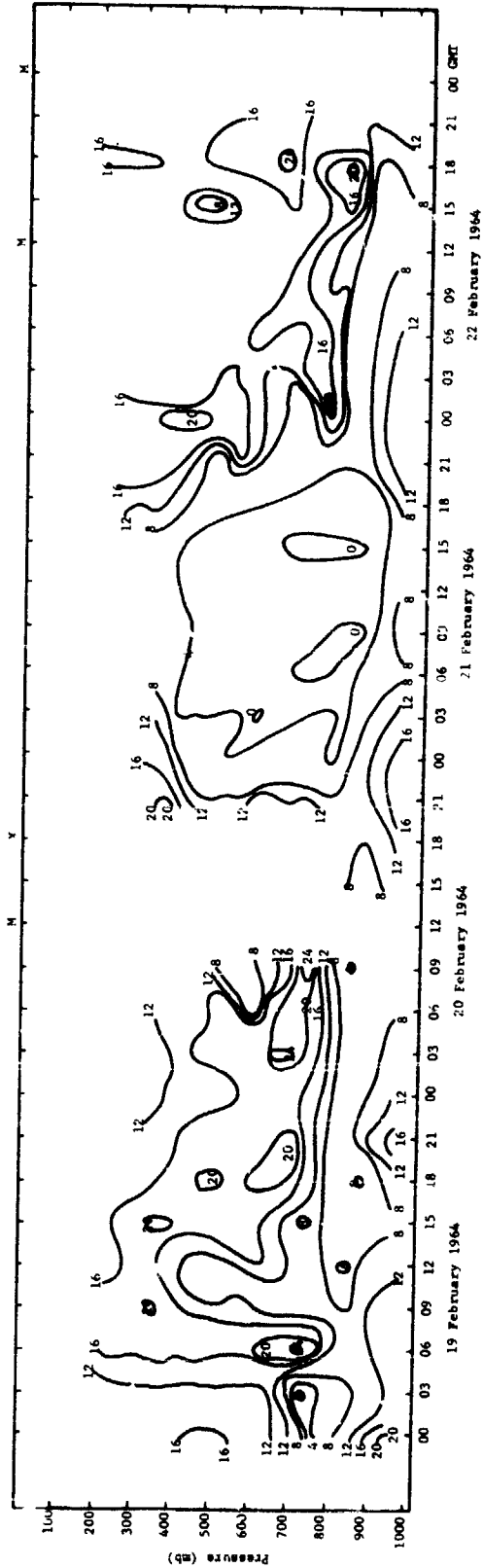
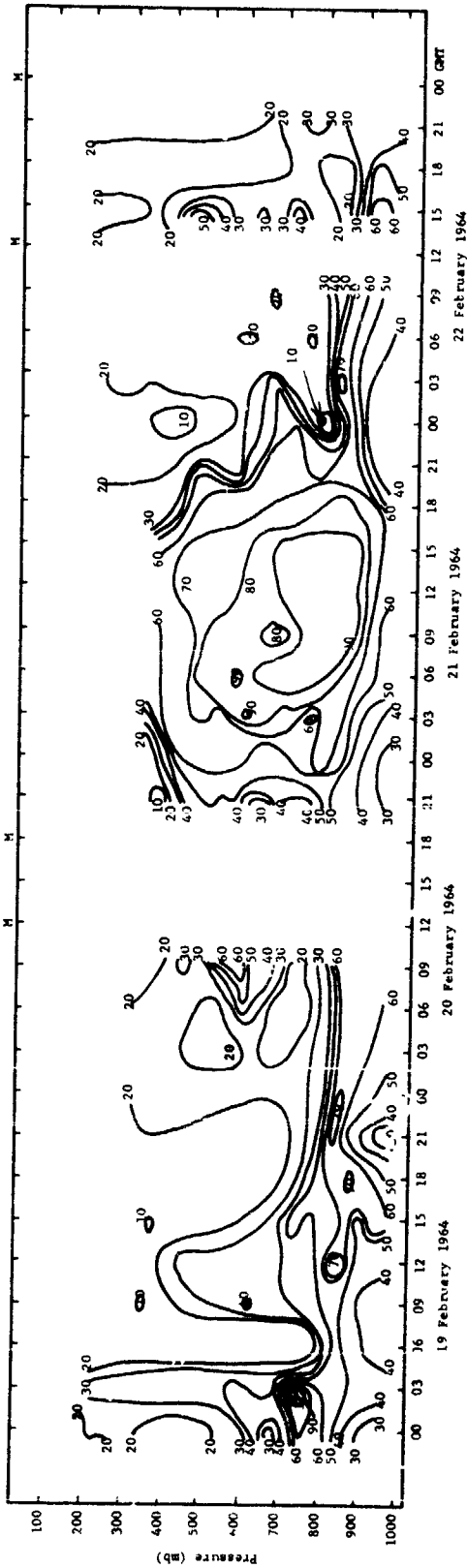
Zonal Wind Component (m/sec) for Shreveport, Louisiana, Station Number 33023

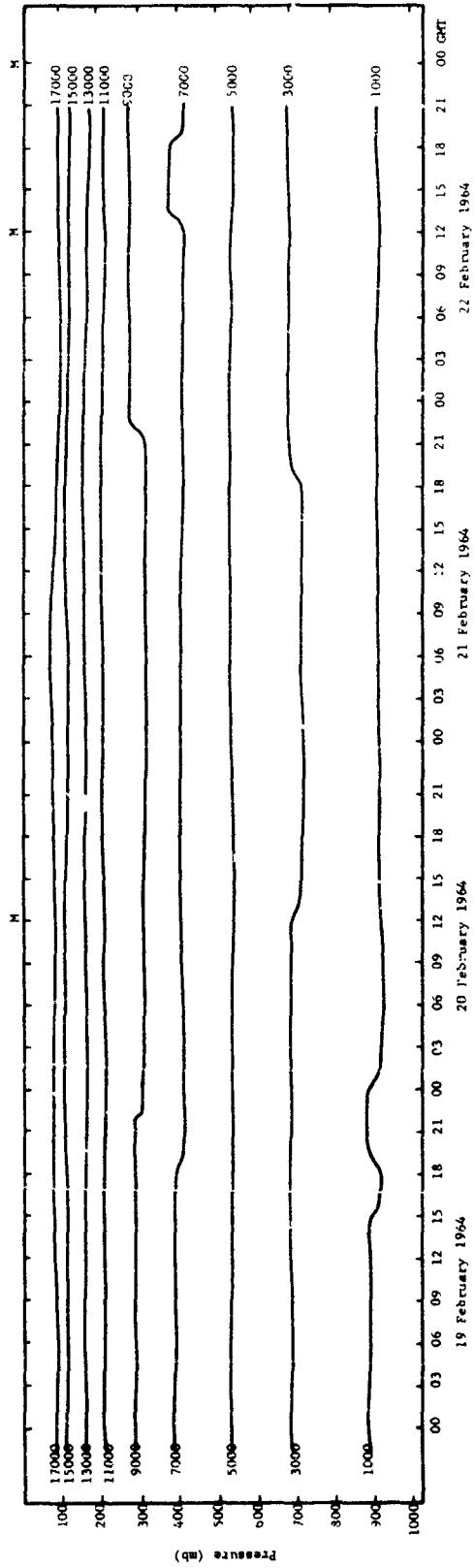


Meridional Wind Component (m/sec) for Shreveport, Louisiana, Station Number 33023



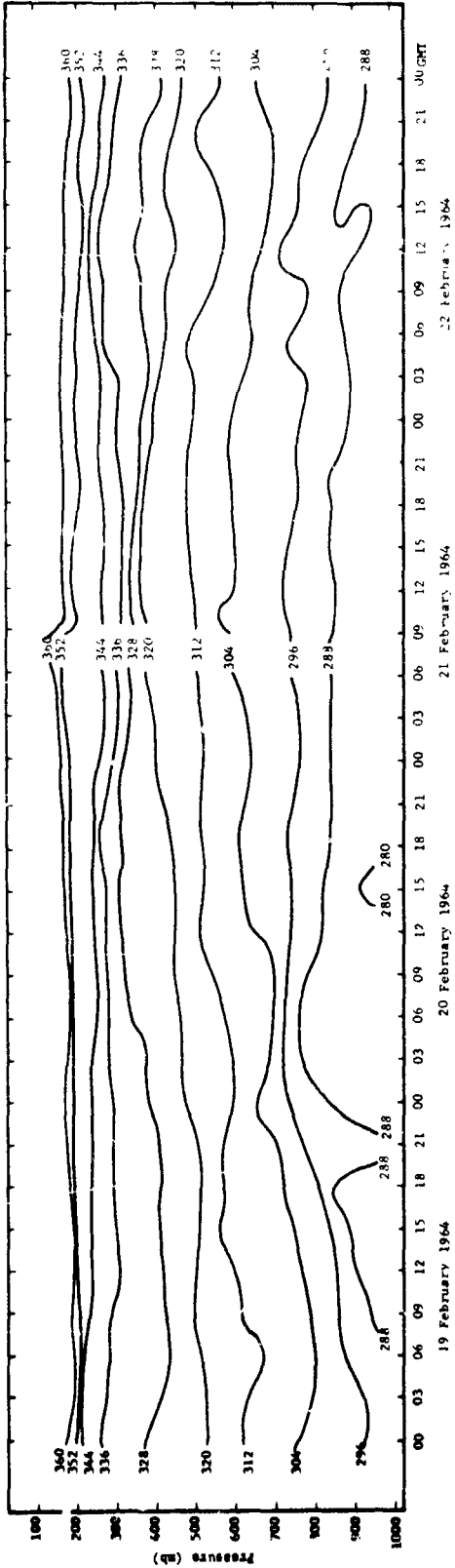
Wind Speed (m/sec) for Shreveport, Louisiana, Station Number 33023



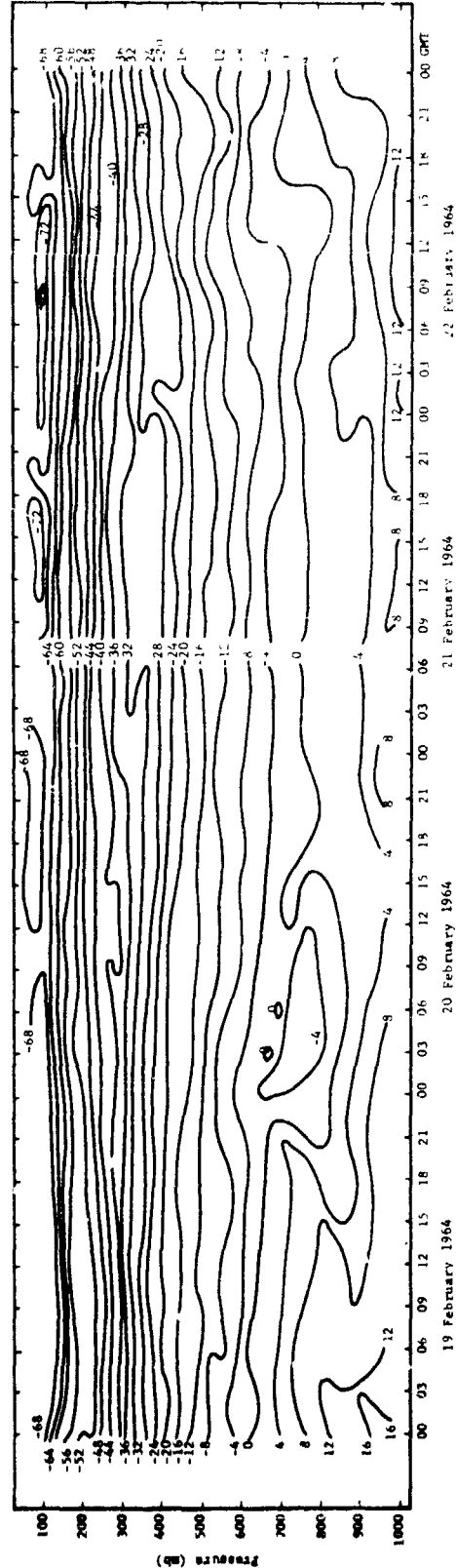


Height (gpm) for Shreveport, Louisiana, Station Number 33023

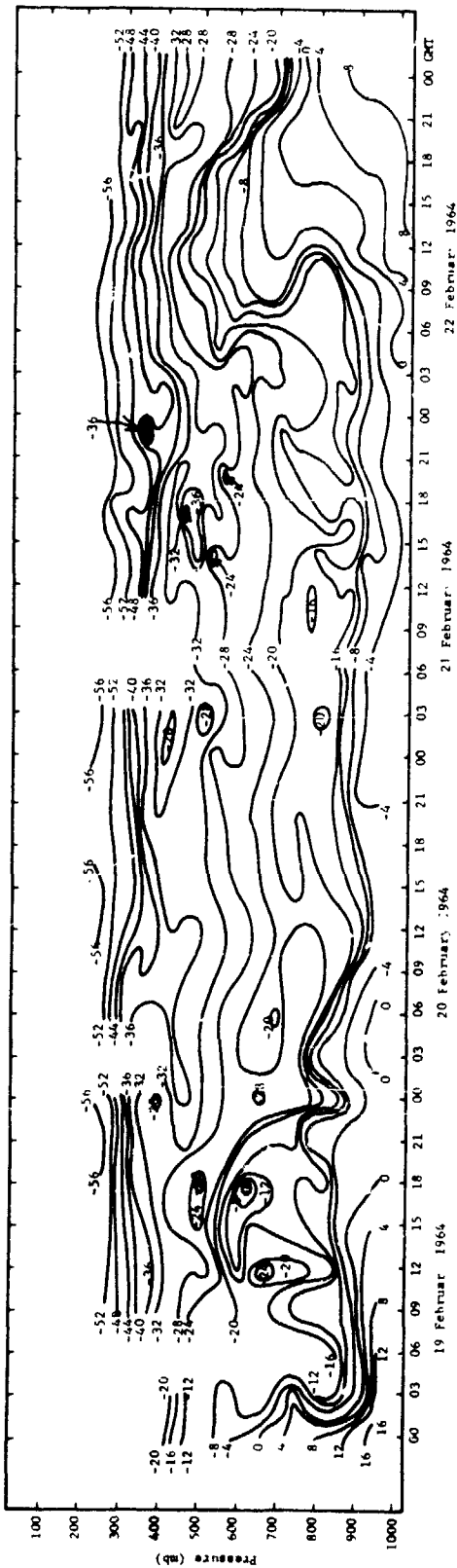
Station Number 44001
Cape Kennedy, Florida



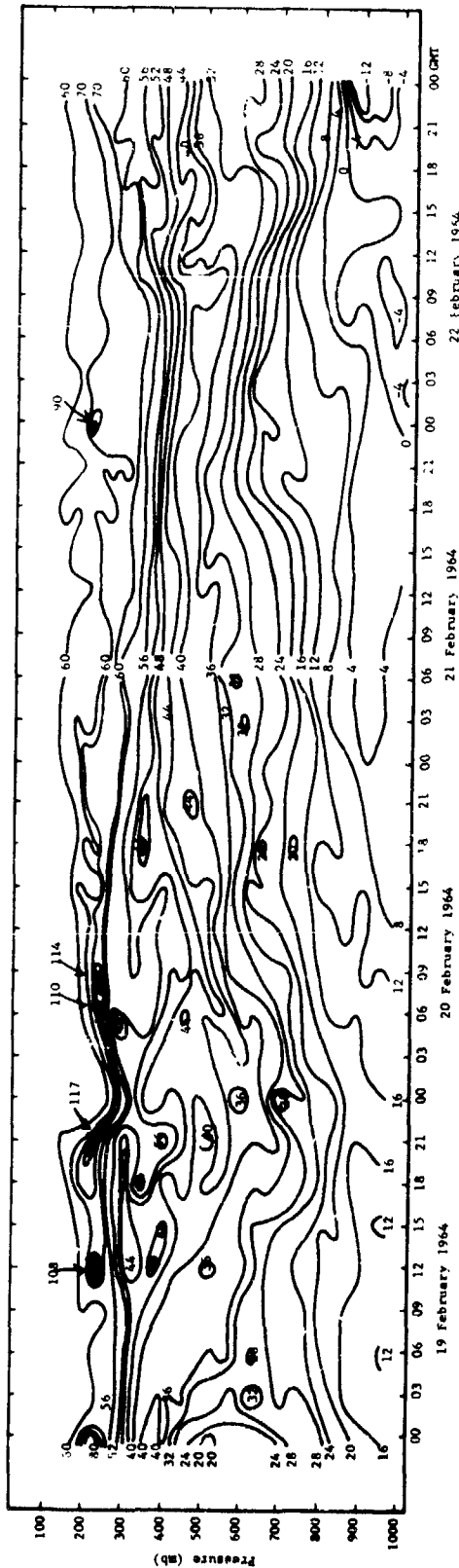
Potential Temperature ($^{\circ}\text{K}$) for Cape Kennedy, Florida, Station Number 44001



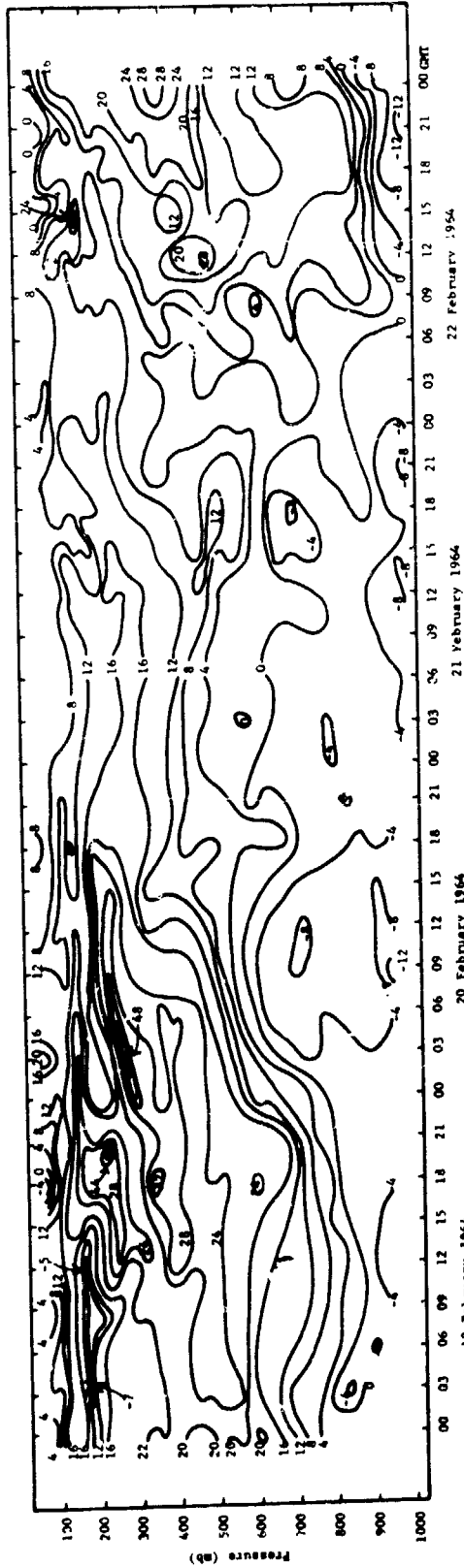
Temperature ($^{\circ}\text{C}$) for Cape Kennedy, Florida, Station Number 44001



Dewpoint Temperature ($^{\circ}$ C) for Cape Kennedy, Florida, Station Number 44001

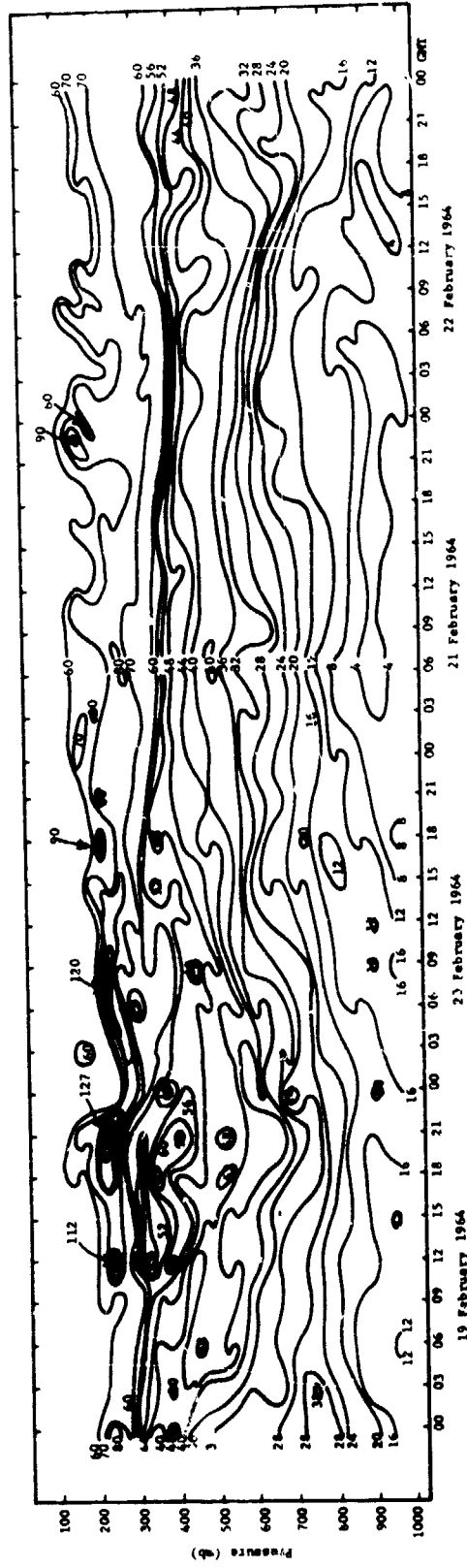


NOTE: Interval not constant



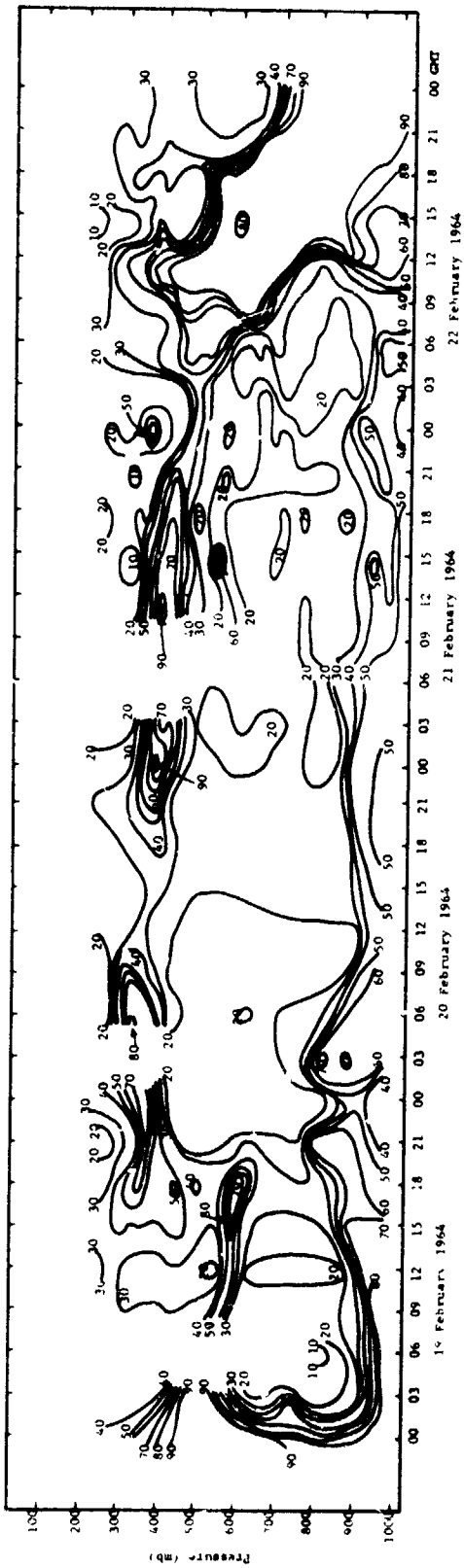
Meridional Wind Component (m/sec) for Cape Kennedy, Florida, Station Number 44001

NOTE: Interval not constant

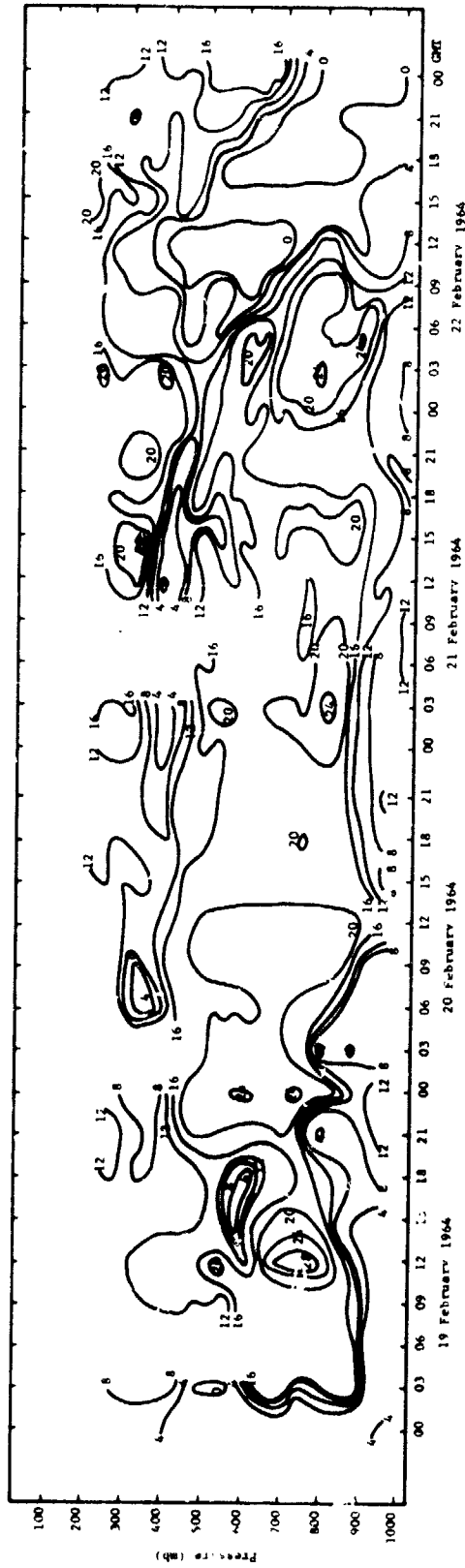


Wind Speed (m/sec) for Cape Kennedy, Florida, Station Number 44001

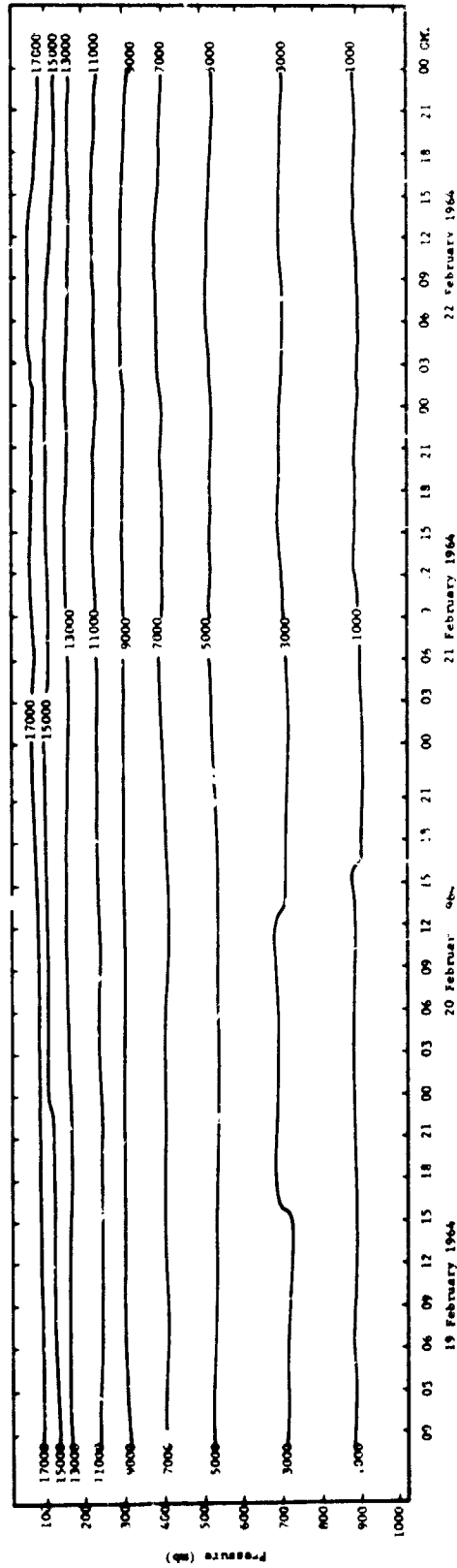
NOTE: Interval not constant



Relative Humidity (%) for Cape Kennedy, Florida, Station Number 4001



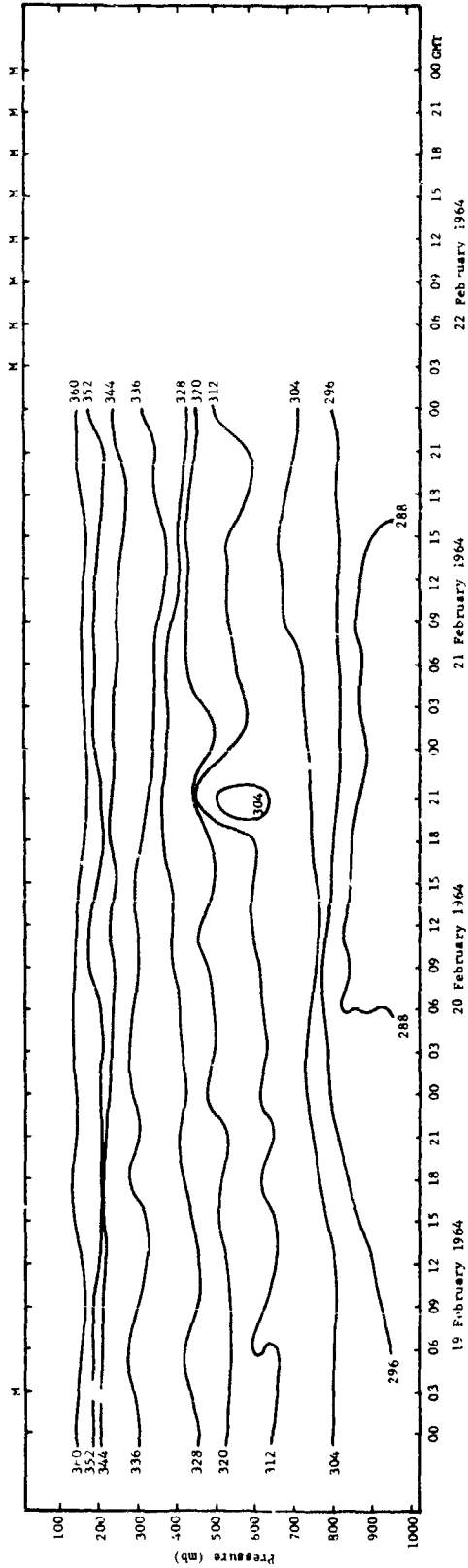
Dewpoint Depression (°C) for Cape Kennedy, Florida, Station Number 4001



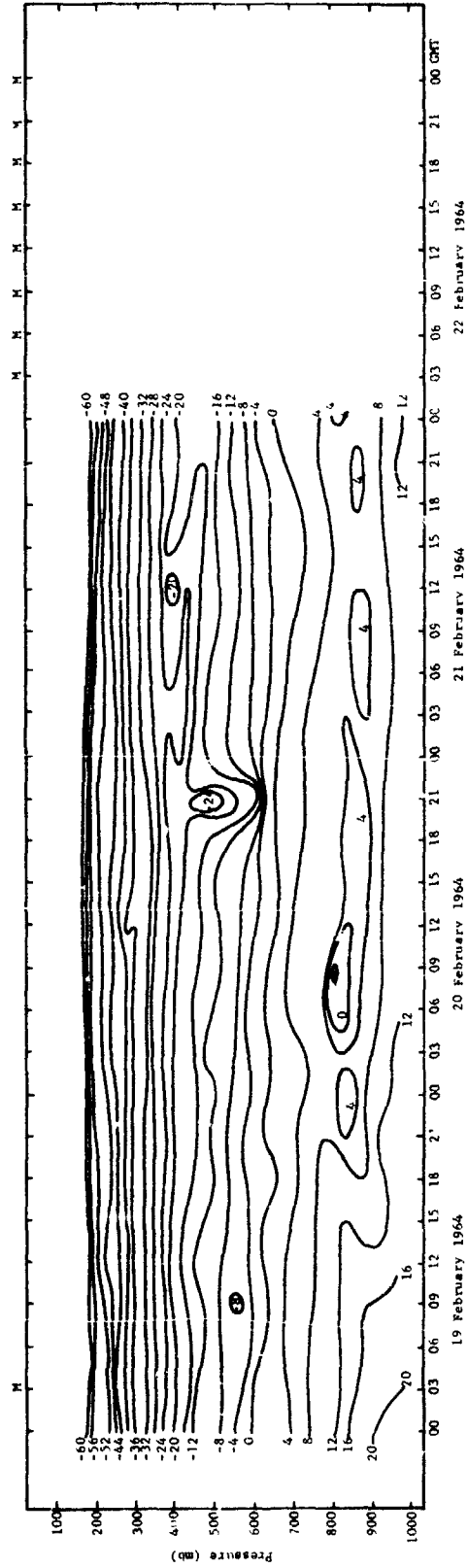
Height (gpm) for Cape Kennedy, Florida, Station Number 44001

Station Number 44002

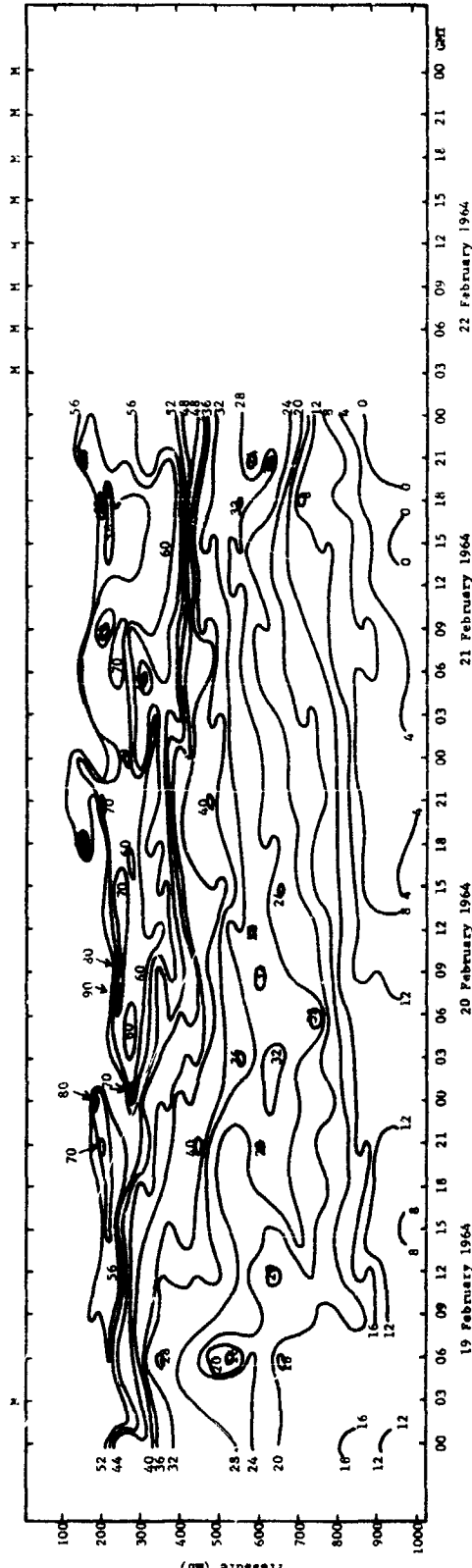
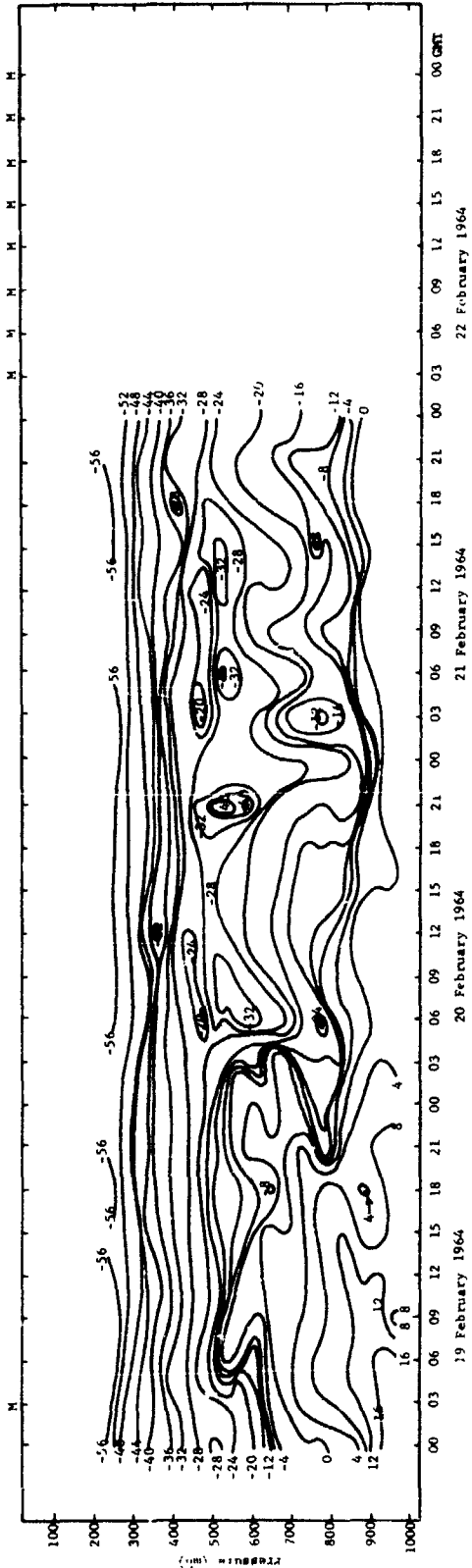
Grand Bahama Islands



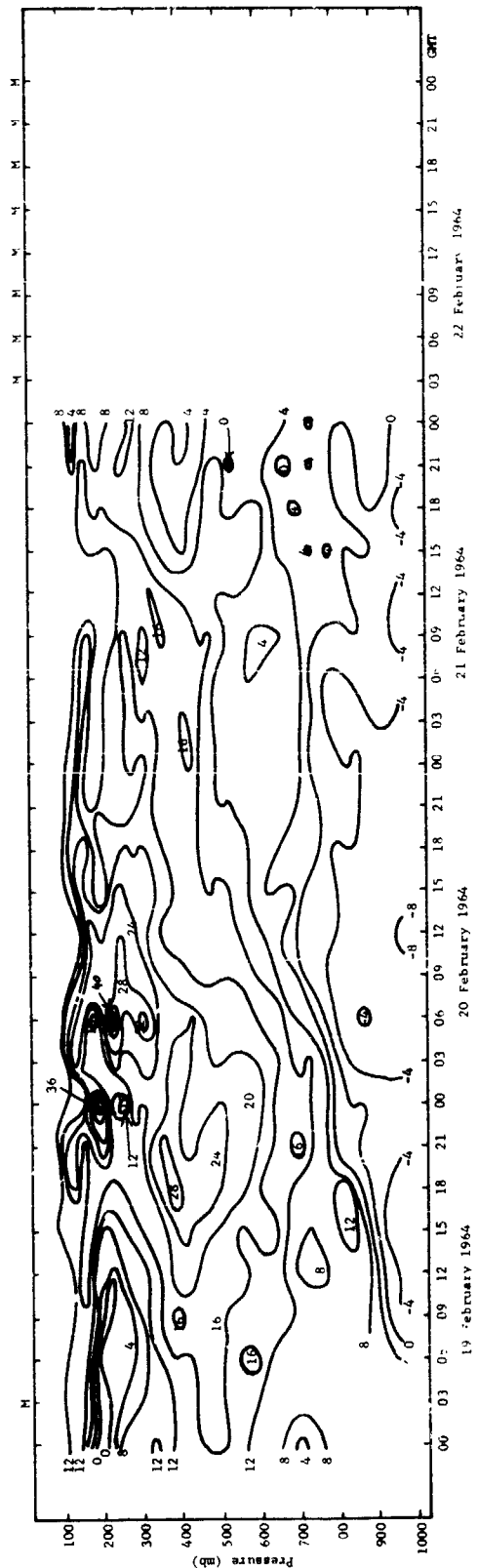
Potential Temperature (K) for Grand Bahama Islands, Station Number 44002



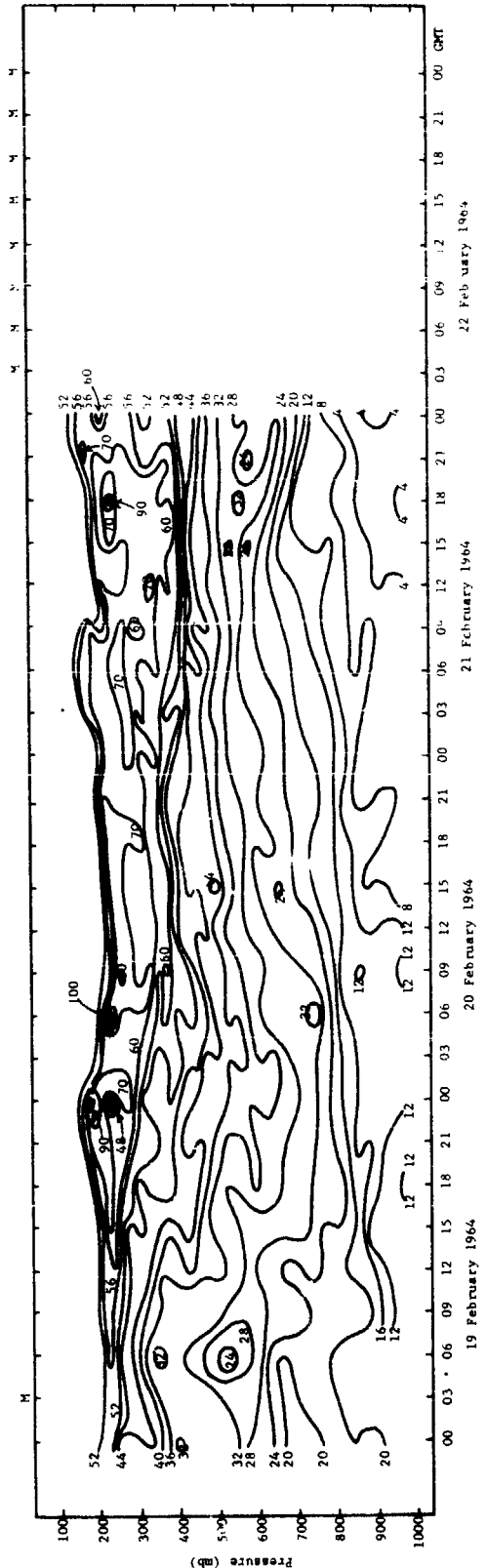
Temperature (C) for Grand Bahama Islands, Station Number 44002



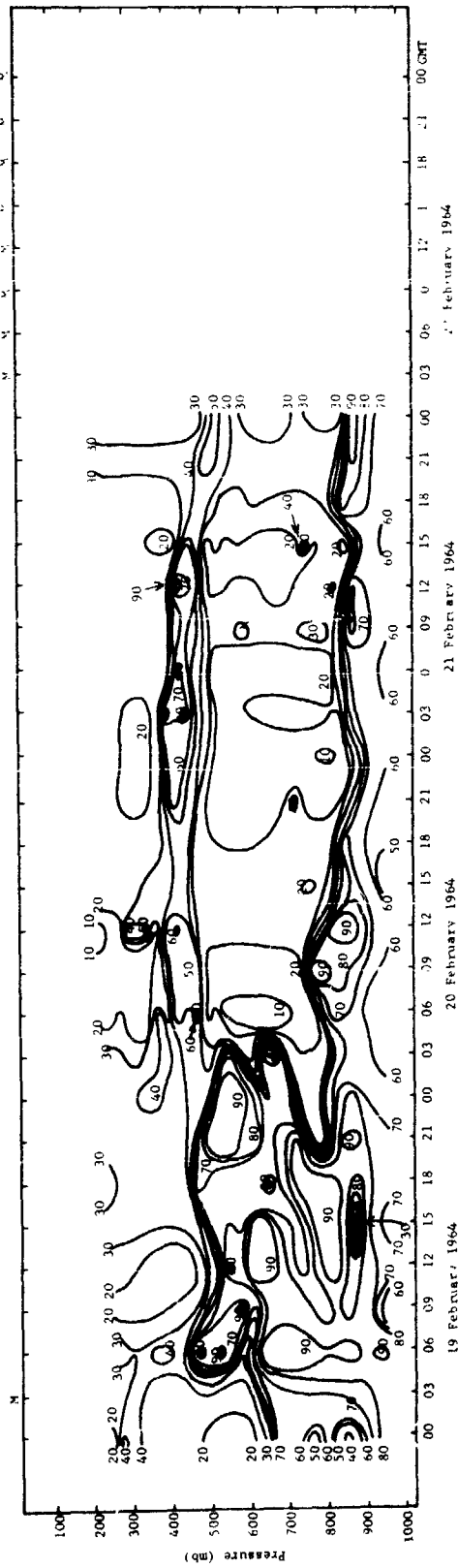
NOTE: Interval not constant



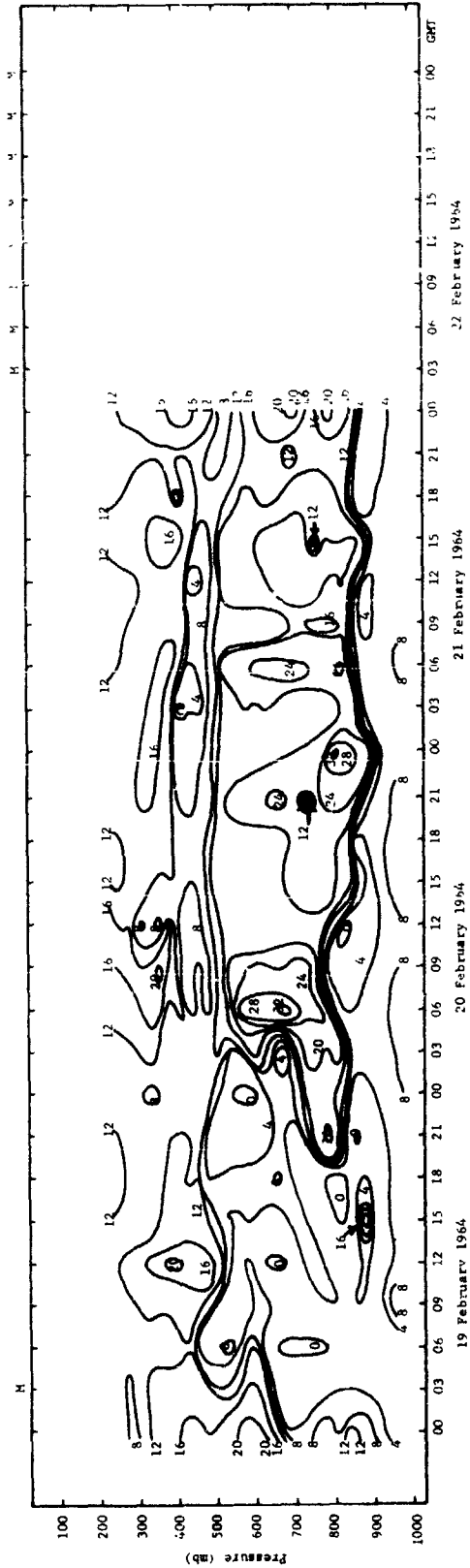
Meridional Wind Component (m/sec) for Grand Bahama Islands, Station Number 44002



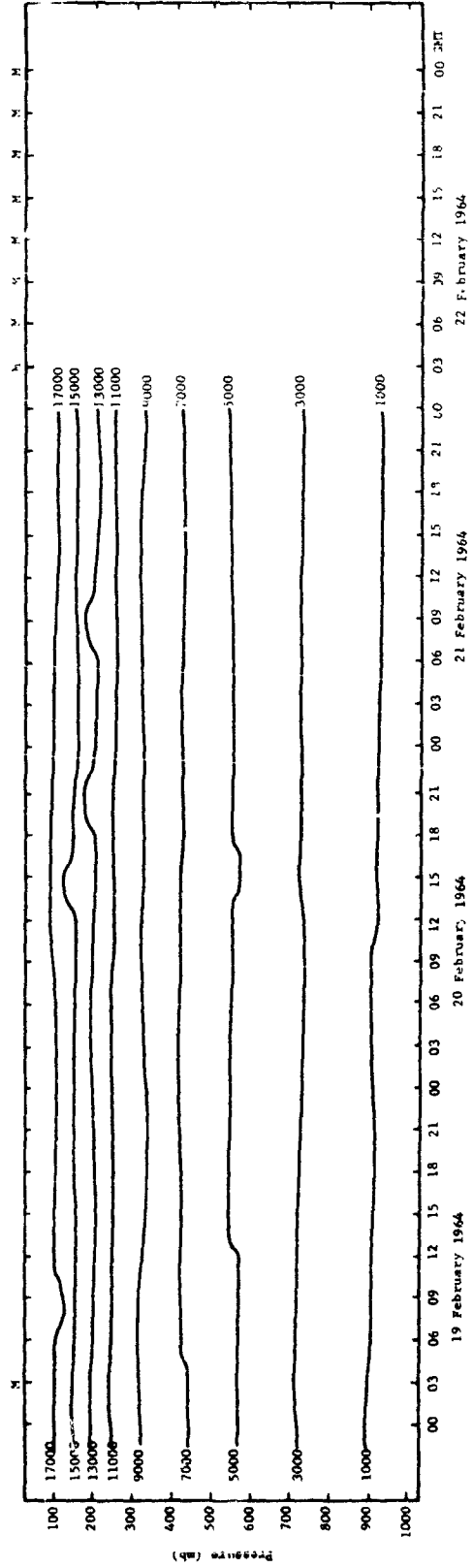
Wind Speed (m/sec) for Grand Bahama Islands, Station Number 44002



Relative Humidity (%) for Grand Bahama Islands, Station Number 44002



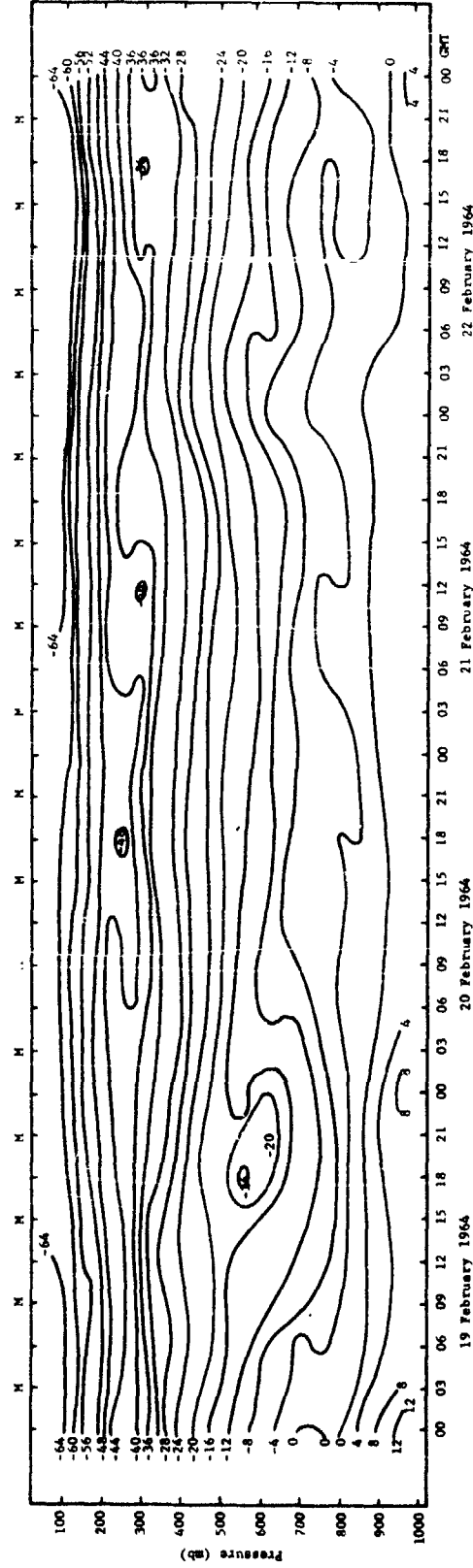
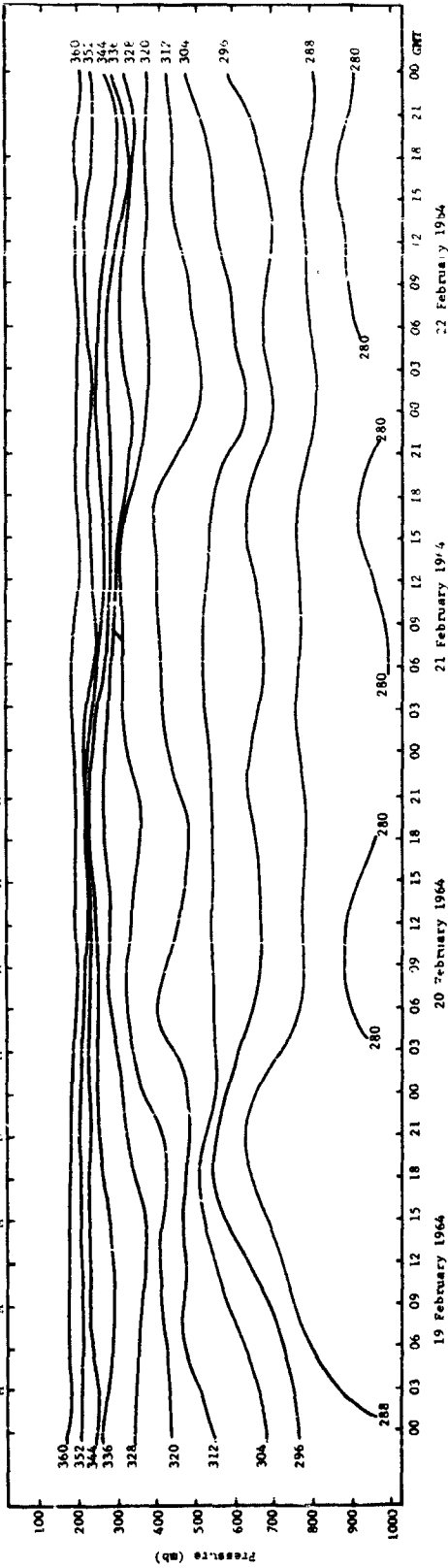
Dewpoint Depression (°C) for Grand Bahama Islands, Station Number 44002

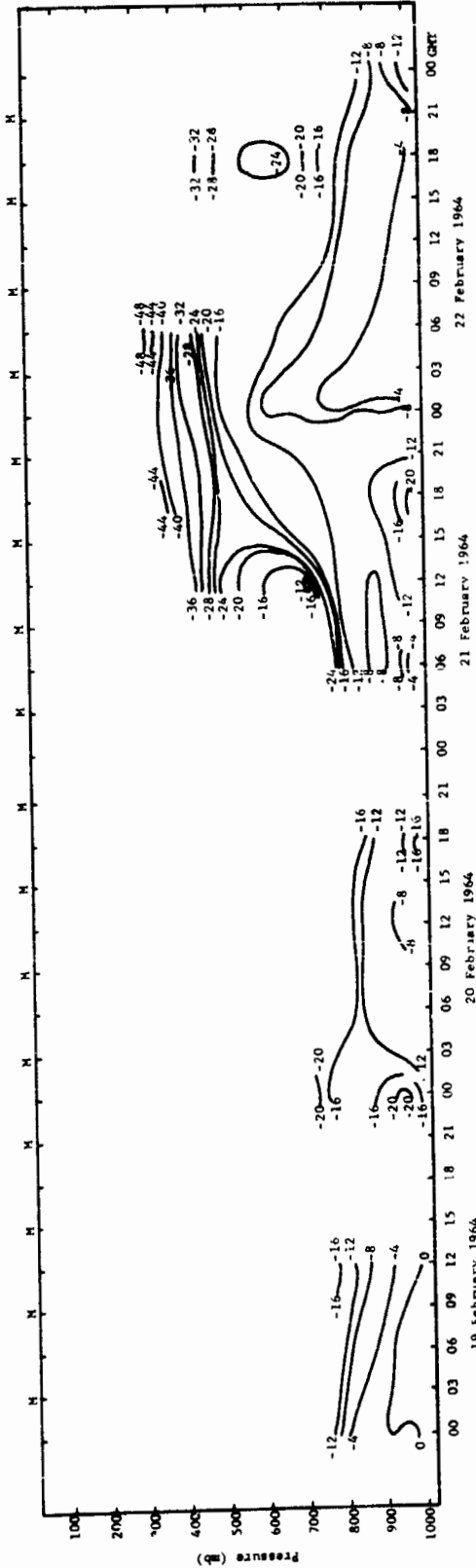


Height (gpm) for Grand Bahama Islands, Station Number 44002

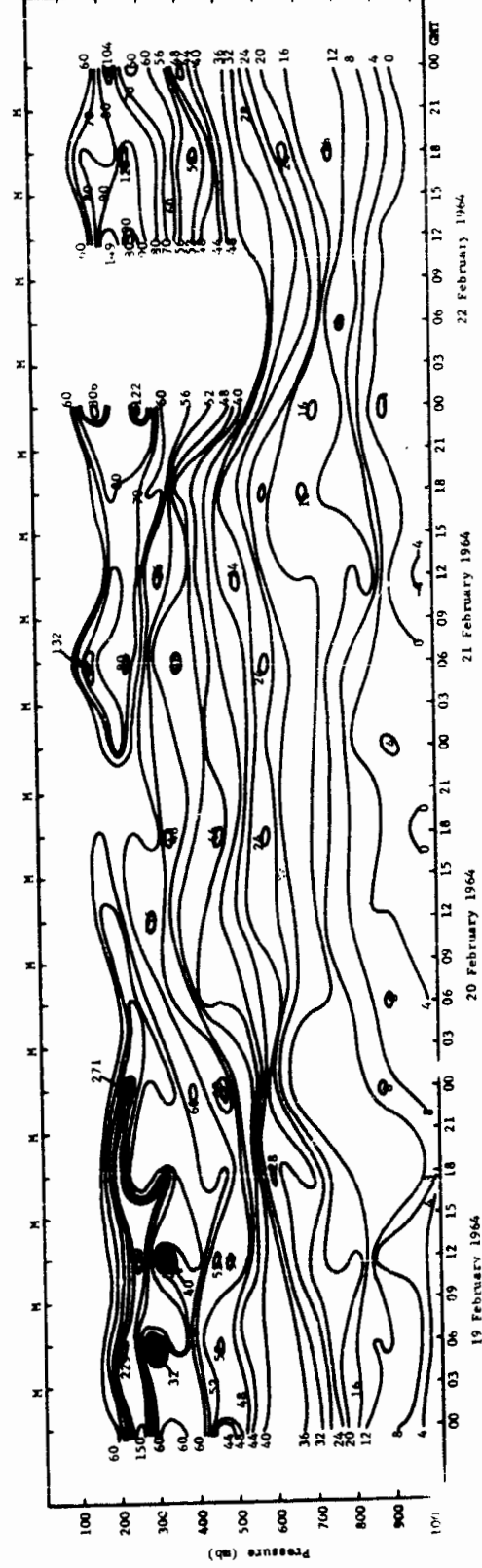
Station Number 44003

Valparaiso, Florida



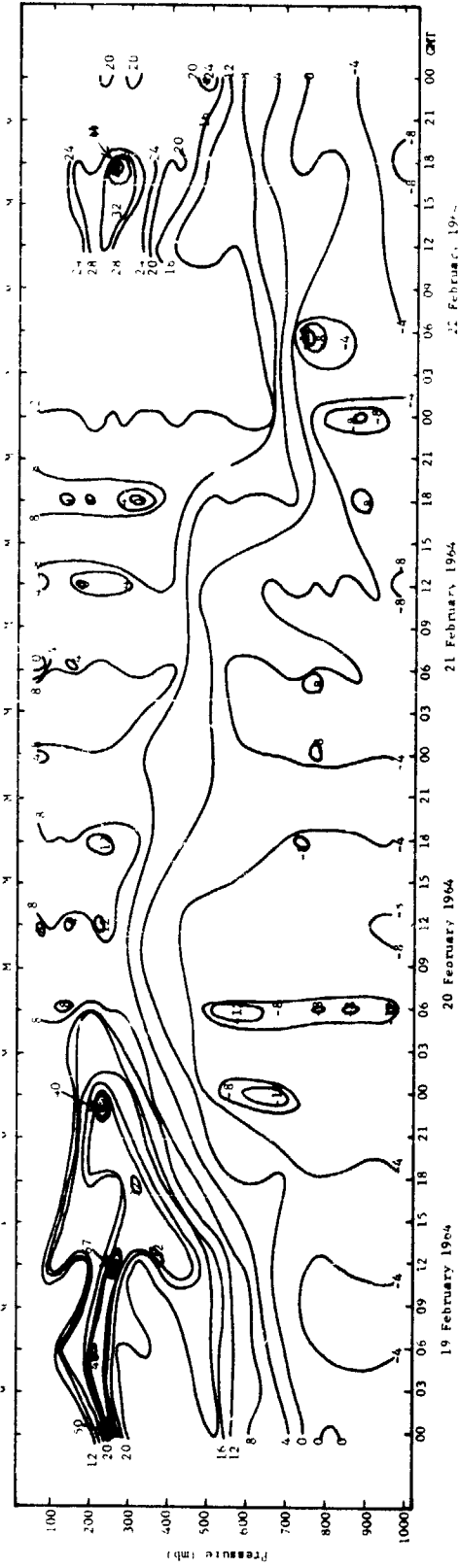


Dewpoint Temperature (°C) for Valparaiso, Florida, Station Number 44003

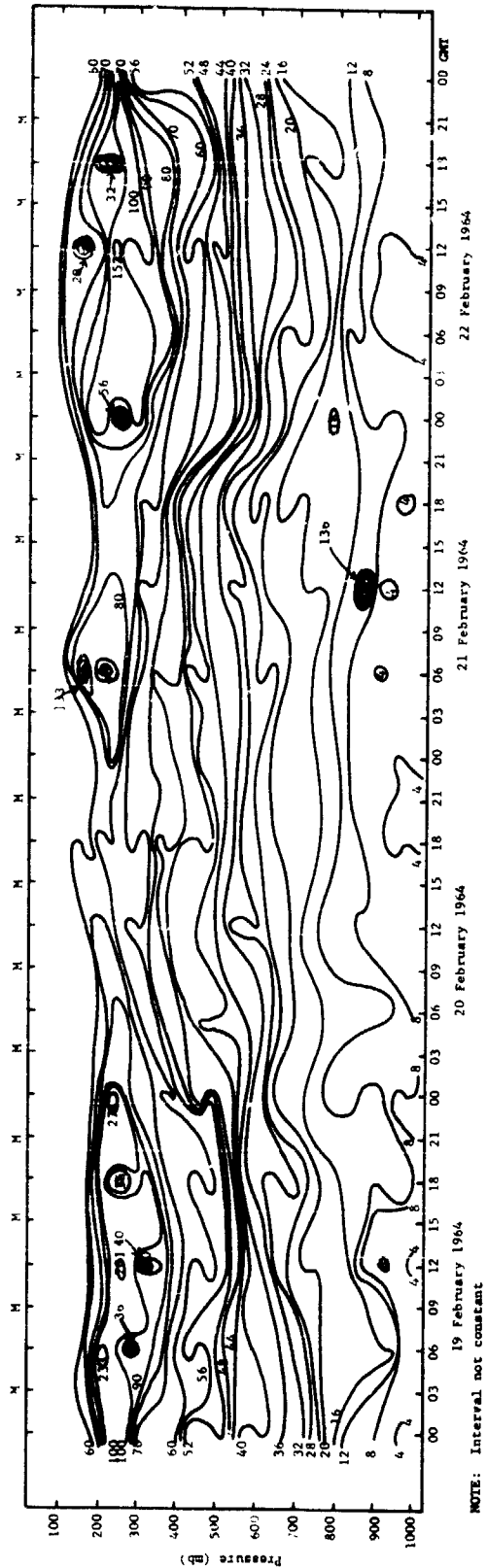


Zonal Wind Component (mi/sec) for Valparaiso, Florida, Station Number 44003

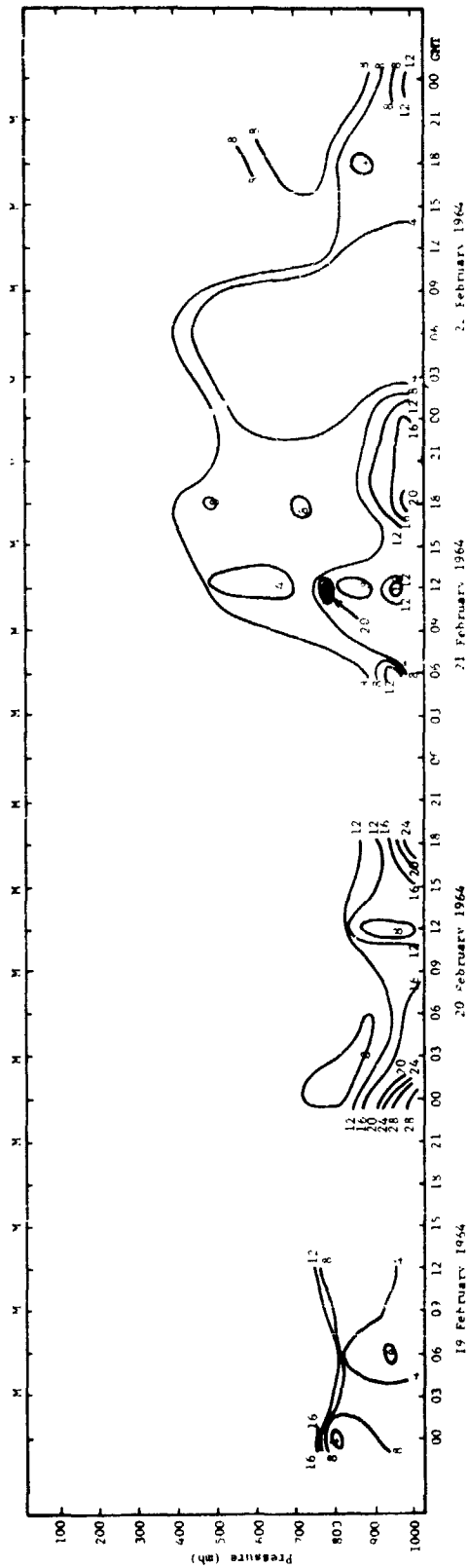
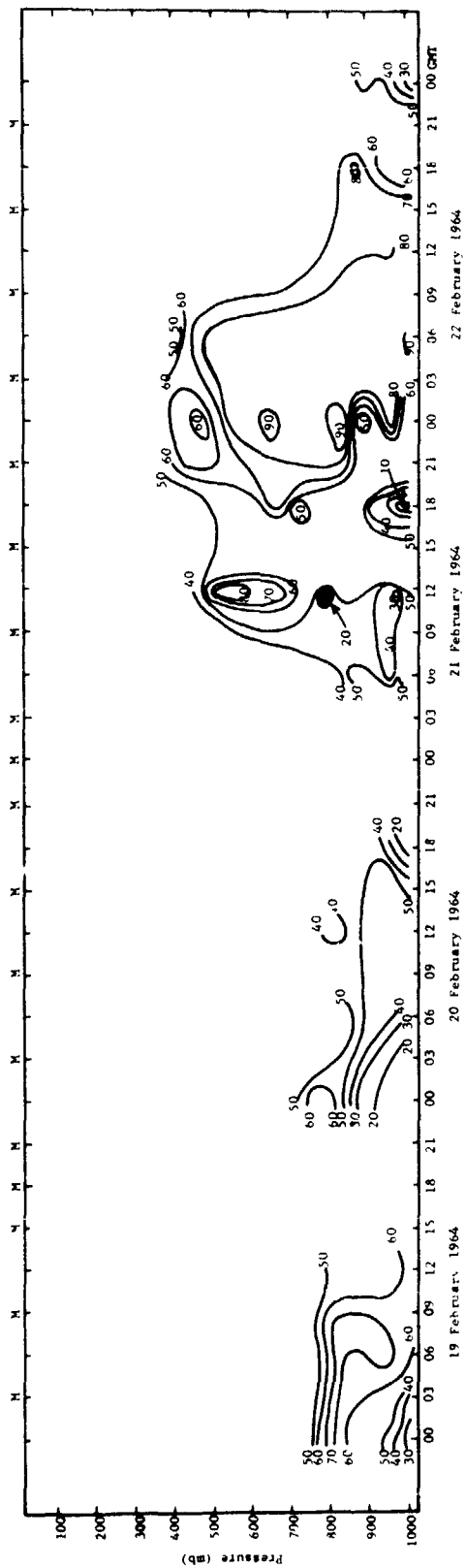
NOTE: Interval not constant

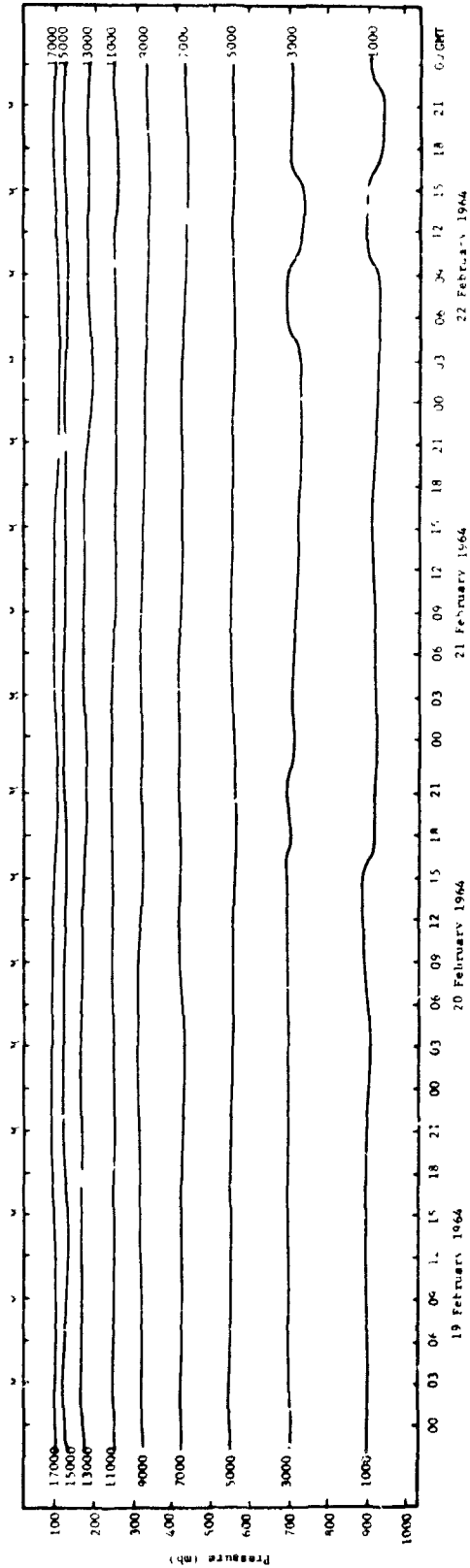


Meridional Wind Component (m/sec) for Valparaiso, Florida, Station Number 44003



Wind Speed (m/sec) for Valparaiso, Florida, Station Number 44003

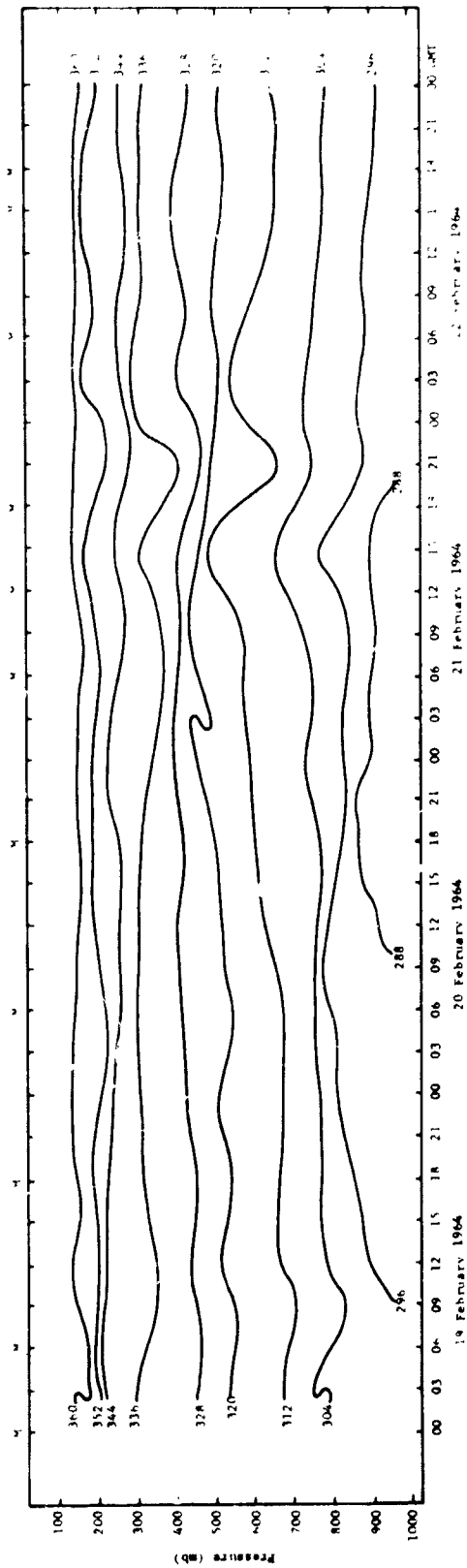




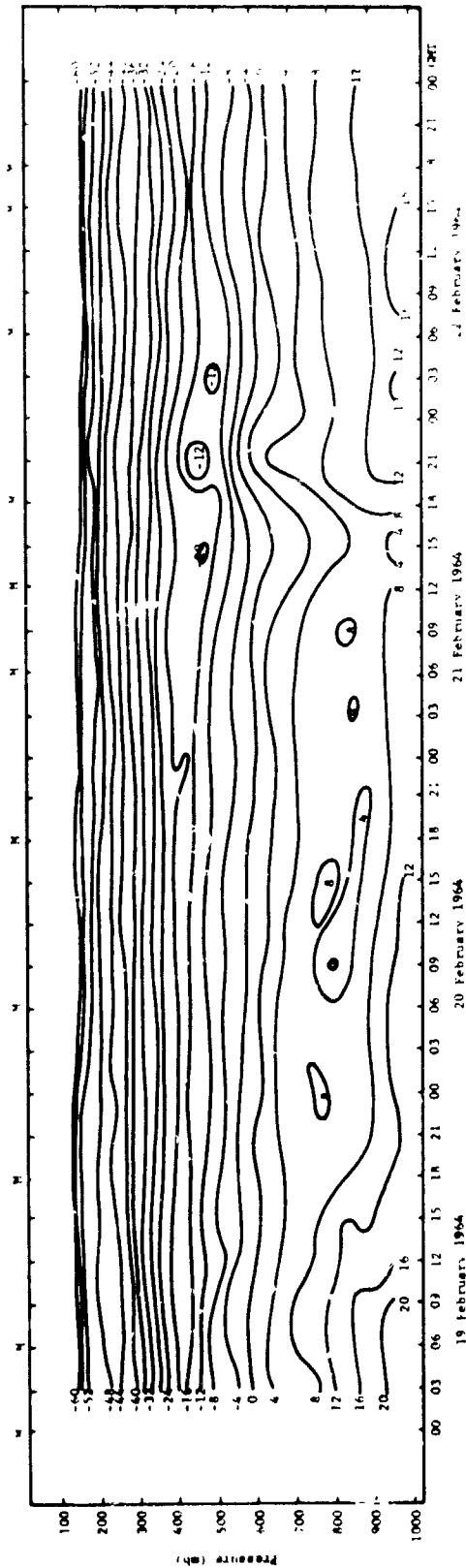
Height (gpm) for Valparaiso, Florida, Station Number 44003

Station Number 55001

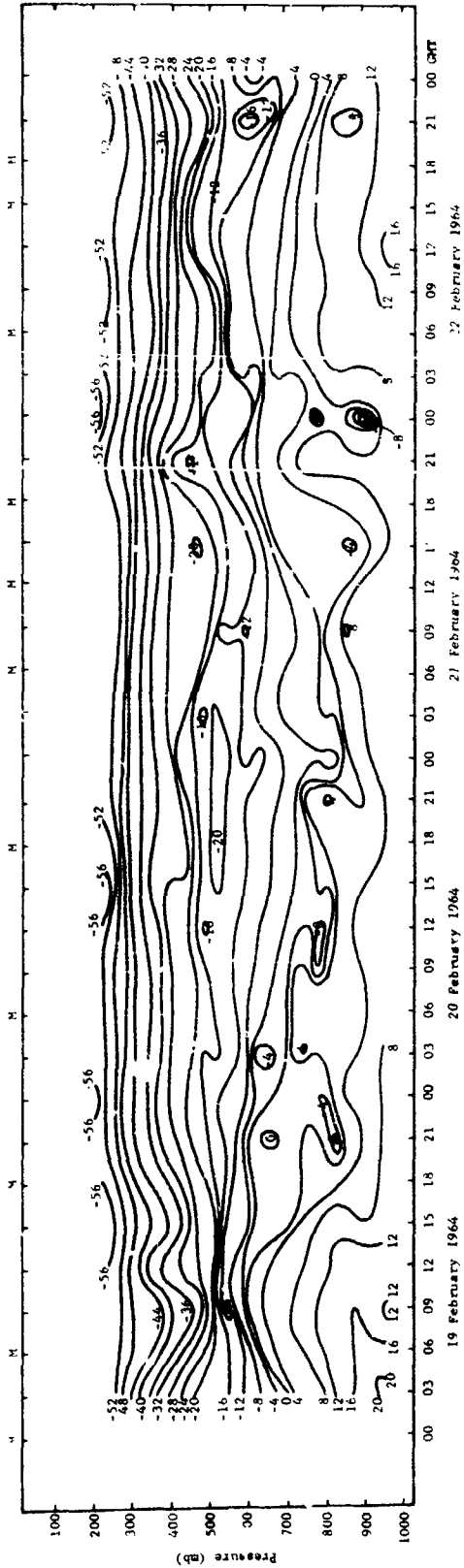
Key West, Florida



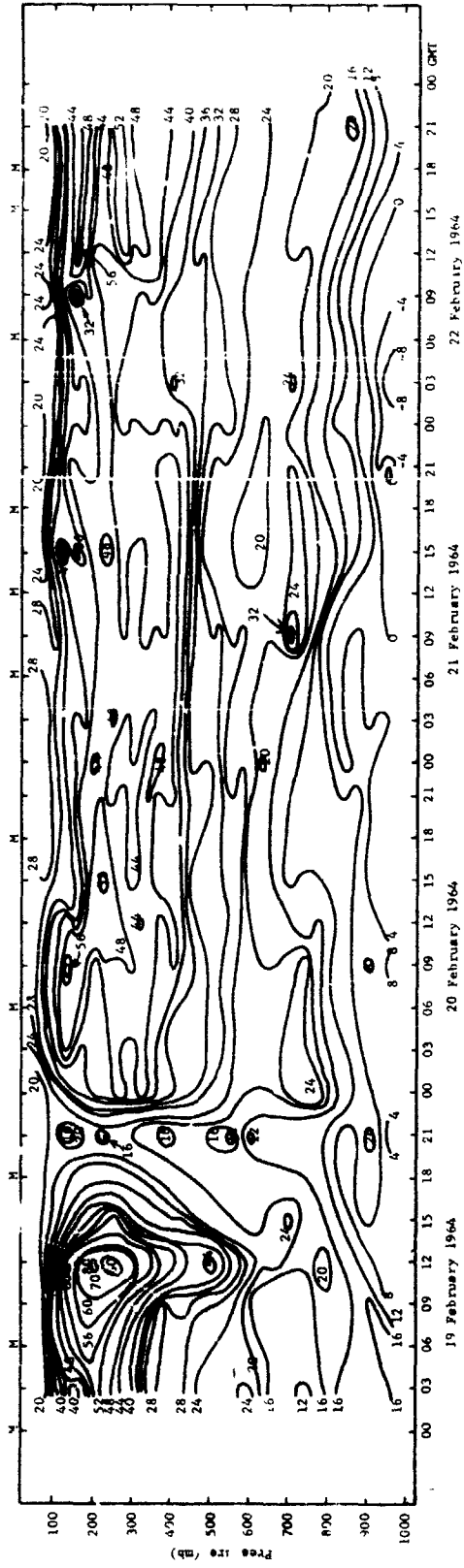
Potential Temperature (K) for Key West, Florida, Station Number 55001



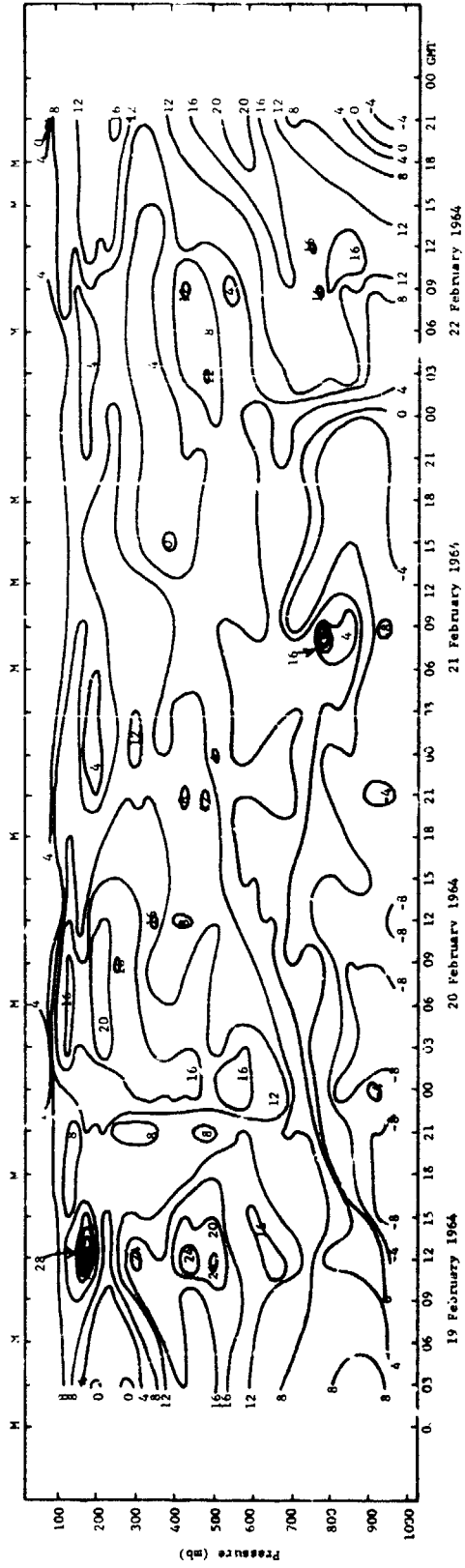
Temperature (C) for Key West, Florida, Station Number 55001



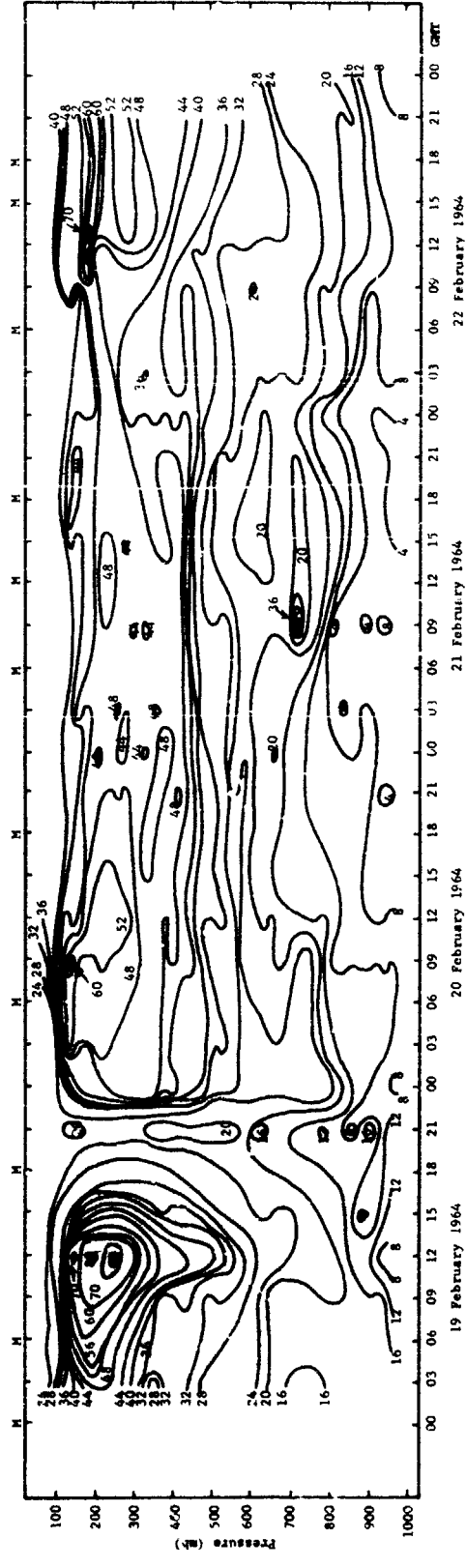
Dewpoint Temperature (°C) for Key West, Florida, Station Number 55001



NOTE: Interval not constant

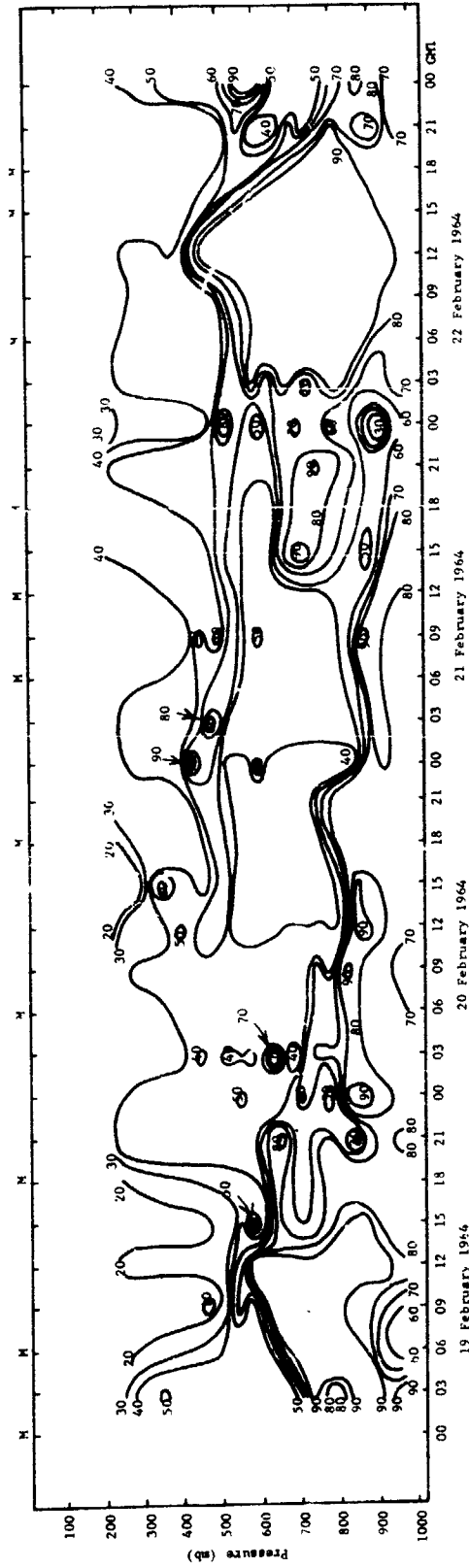


Meridional Wind Component (m/sec) for Key West, Florida, Station Number 55001

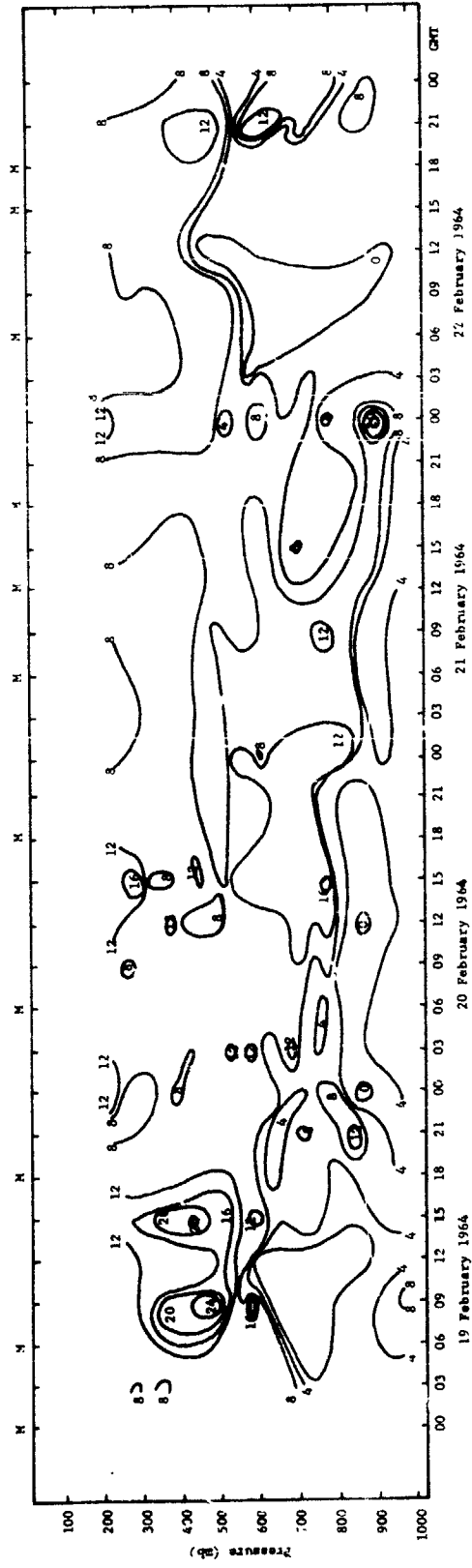


Wind Speed (m/sec) for Key West, Florida, Station Number 55001

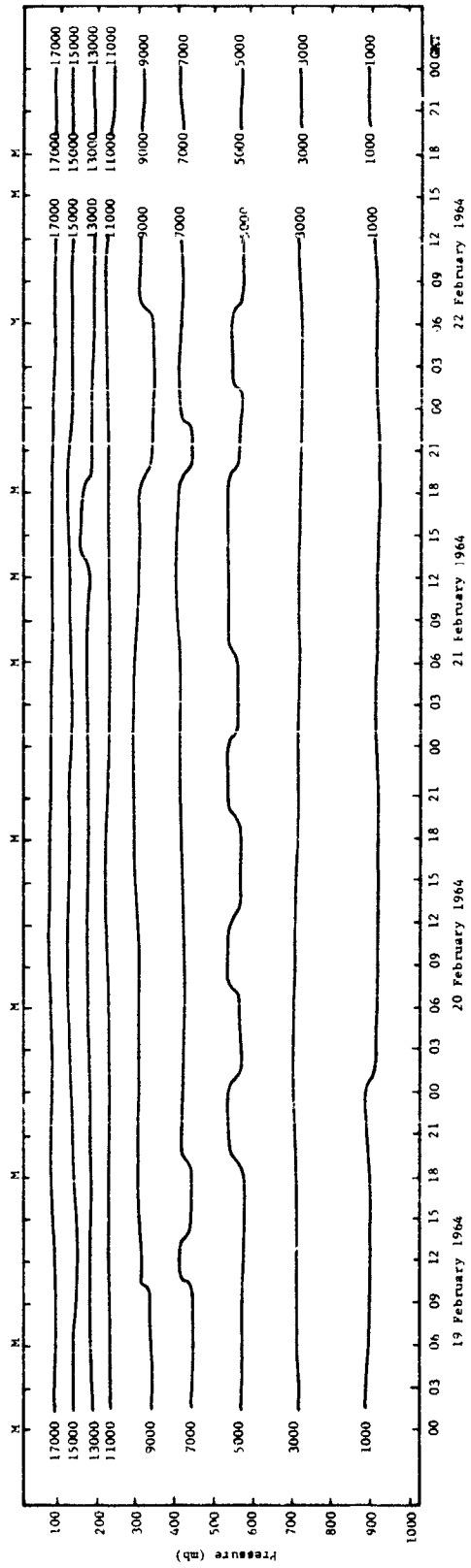
NOTE: Interval not constant



Relative Humidity (%) for Key West, Florida, Station Number 55001



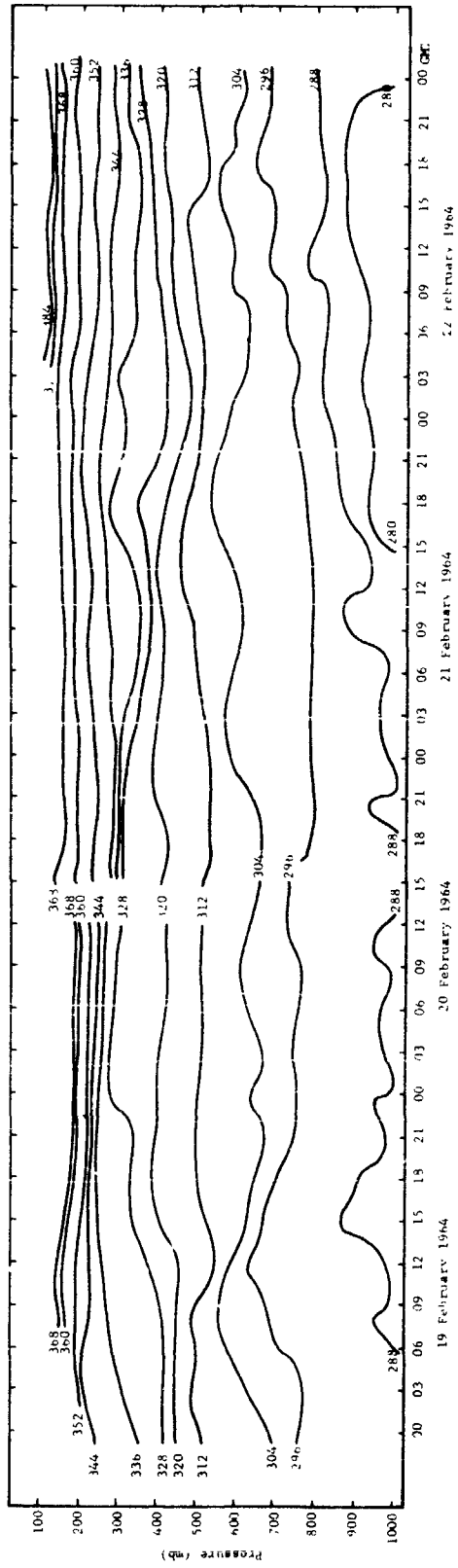
Dewpoint Depression (°C) for Key West, Florida, Station Number 55001



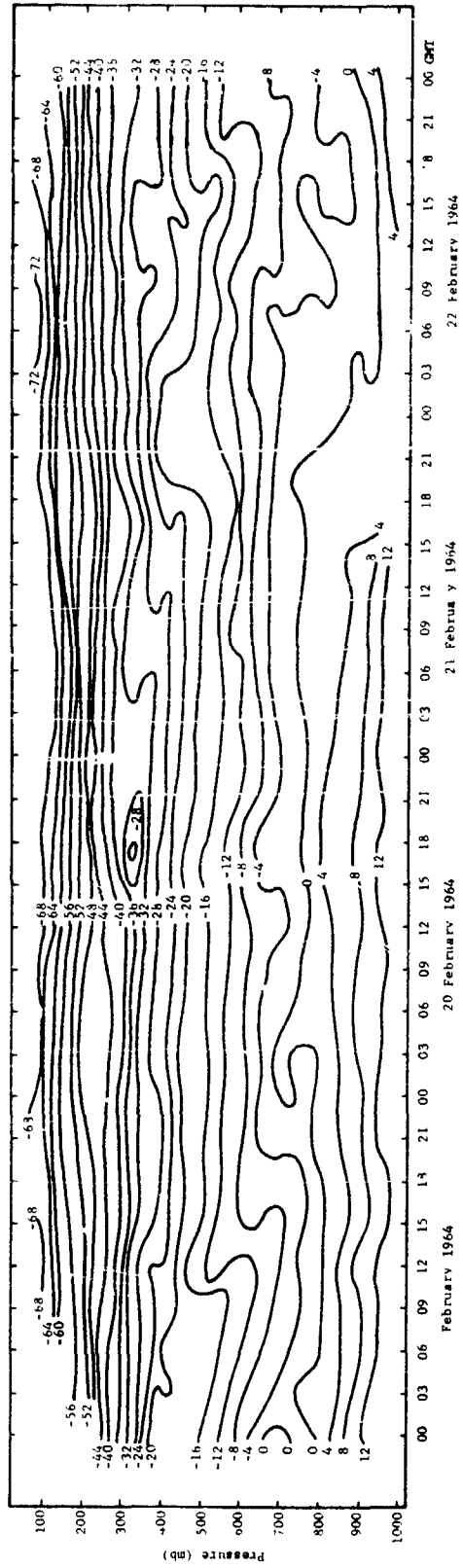
Height (gpm) for Key West, Florida, Station Number 55001

Station Number 55002

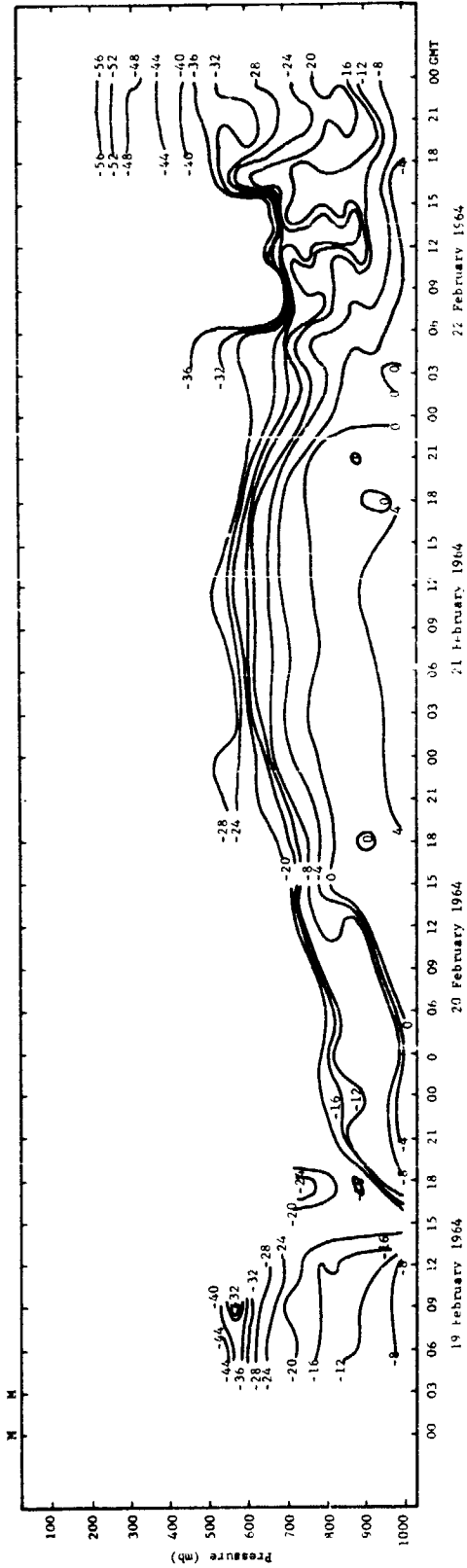
Corpus Christi, Texas



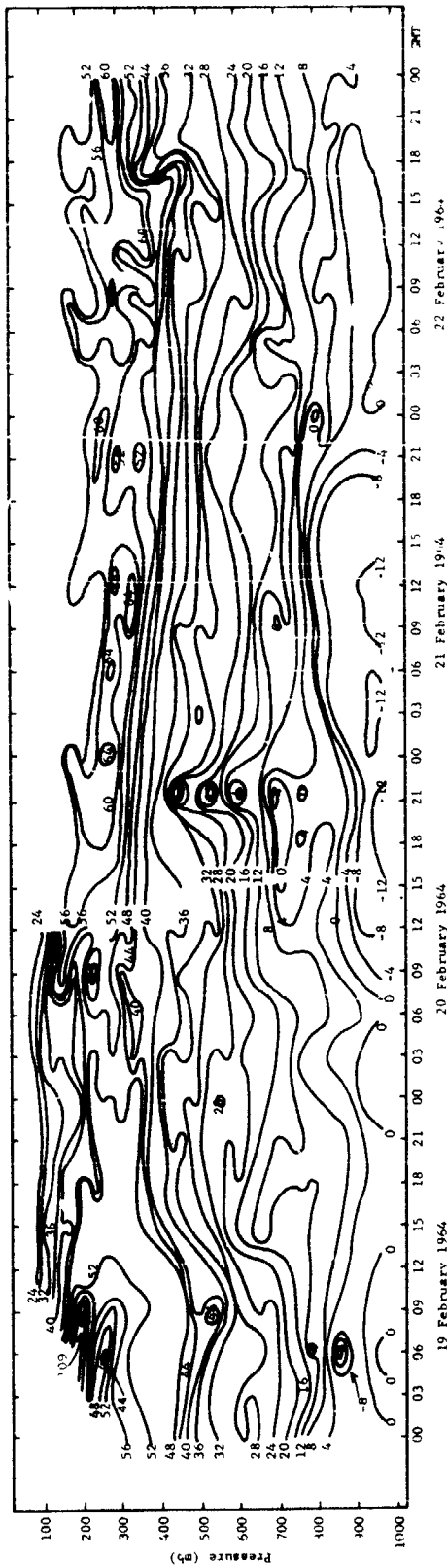
Potential Temperature ($^{\circ}$ K) for Corpus Christi, Texas, Station Number 55002



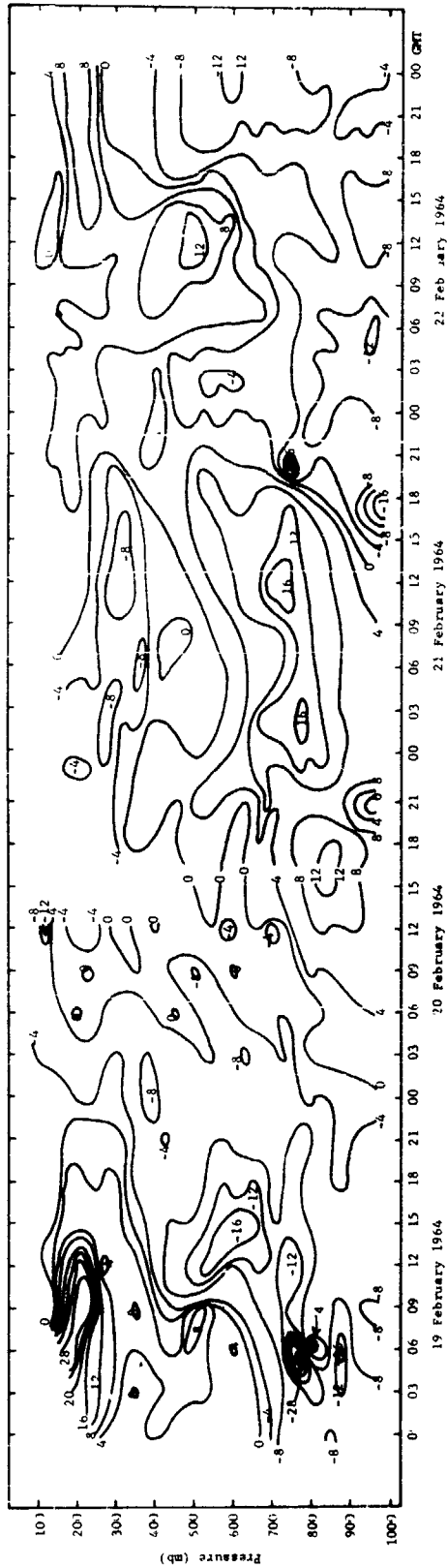
Temperature ($^{\circ}$ C) for Corpus Christi, Texas, Station Number 55002



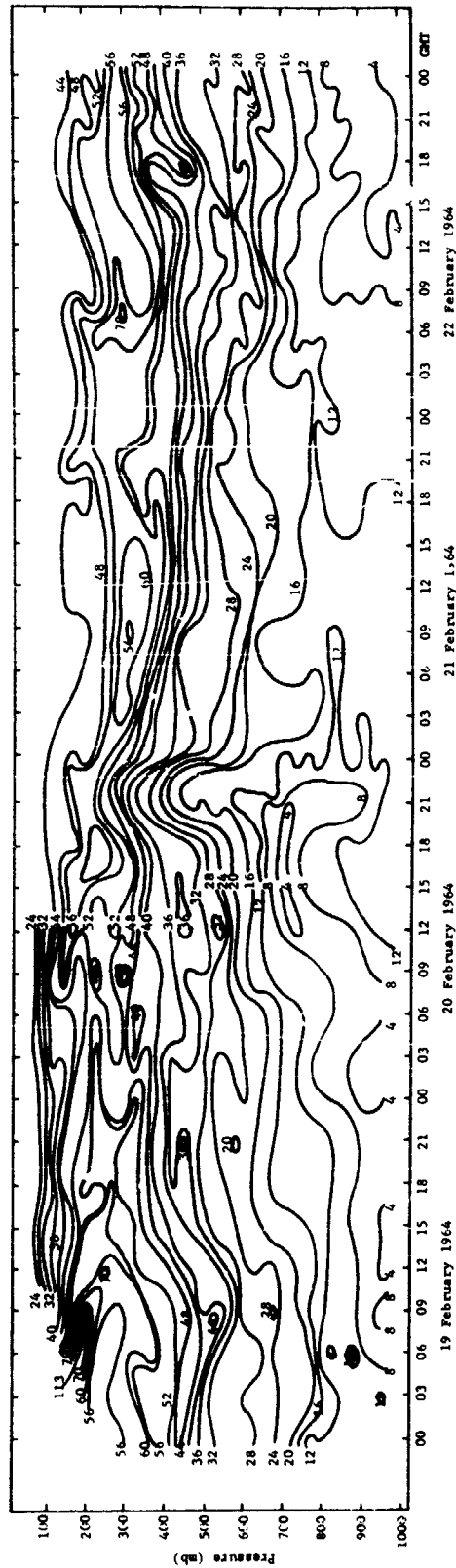
Dewpoint Temperature ($^{\circ}\text{C}$) for Corpus Christi, Texas, Station Number 55002



NOTE: Interval not constant

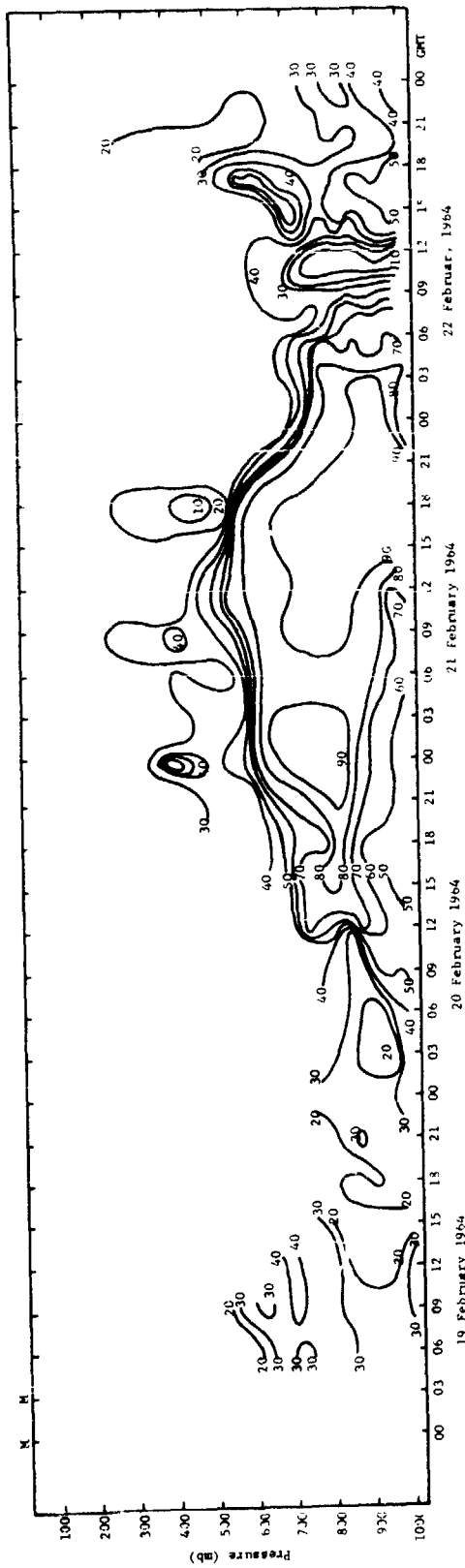


Meridional Wind Component (m/sec) for Corpus Christi, Texas, Station Number 55002

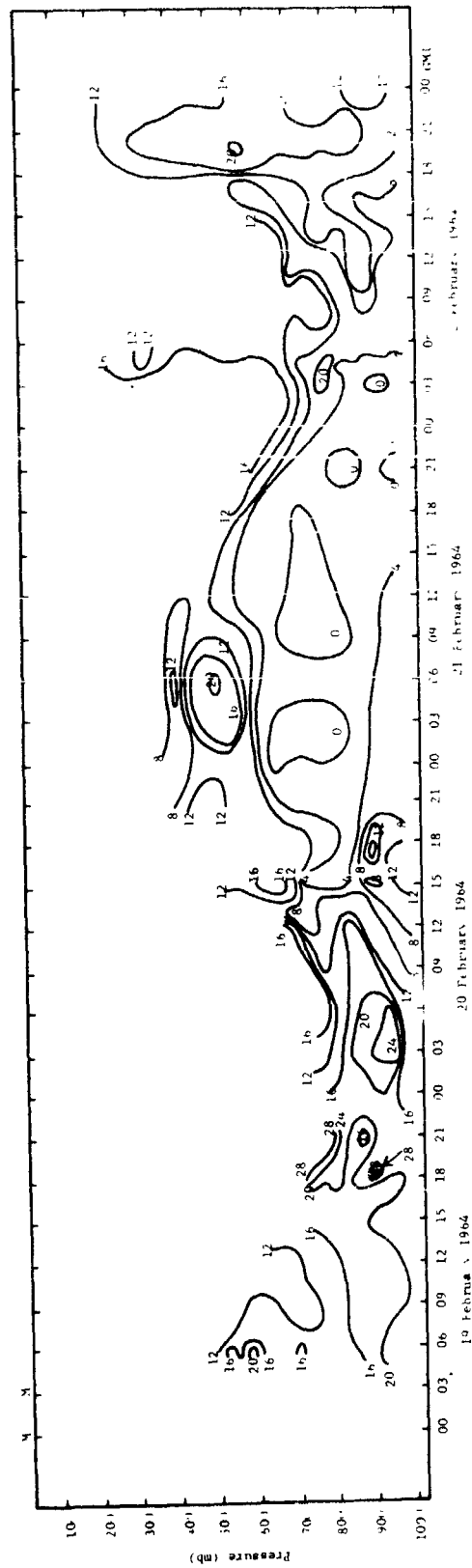


Wind Speed (m/sec) for Corpus Christi, Texas, Station Number 55002

NOTE: Interval not constant

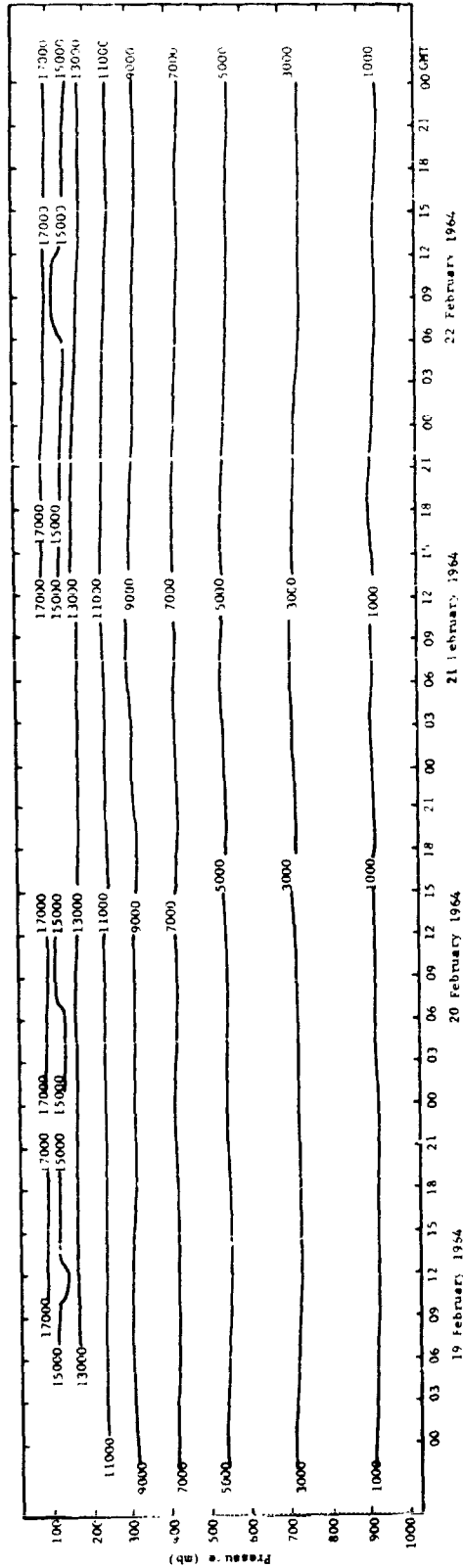


Relative Humidity (%) for Corpus Christi, Texas, Station Number 55002



Dewpoint Depression (°C) for Corpus Christi, Texas, Station Number 55002

CAT.-20



Height (gpm) for Corpus Christi, Texas, Station Number 55002