

**NASA TECHNICAL
MEMORANDUM**



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ATMOSPHERIC VARIABILITY EXPERIMENT (AVE
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

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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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DATA FOR FIRST NASA ATMOSPHERIC VARIABILITY EXPERIMENT (AVE I)

by

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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

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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

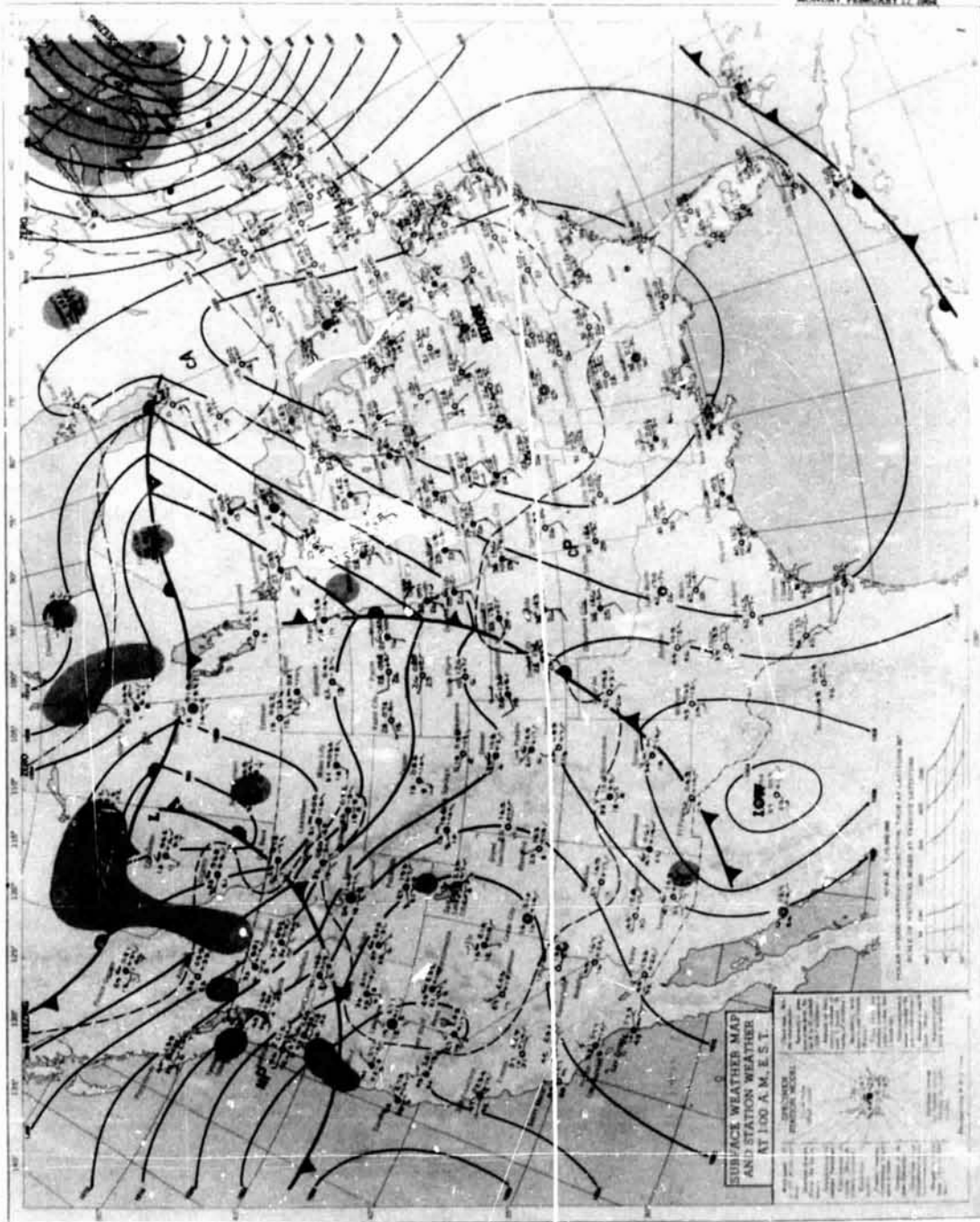
The analysis of the AVE I data presented in this report is designed to portray the large time and space variations in the structure of the atmosphere, and to provide a means for delineating areas which exhibit changes in meteorological variables and conditions which might be of particular interest to 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

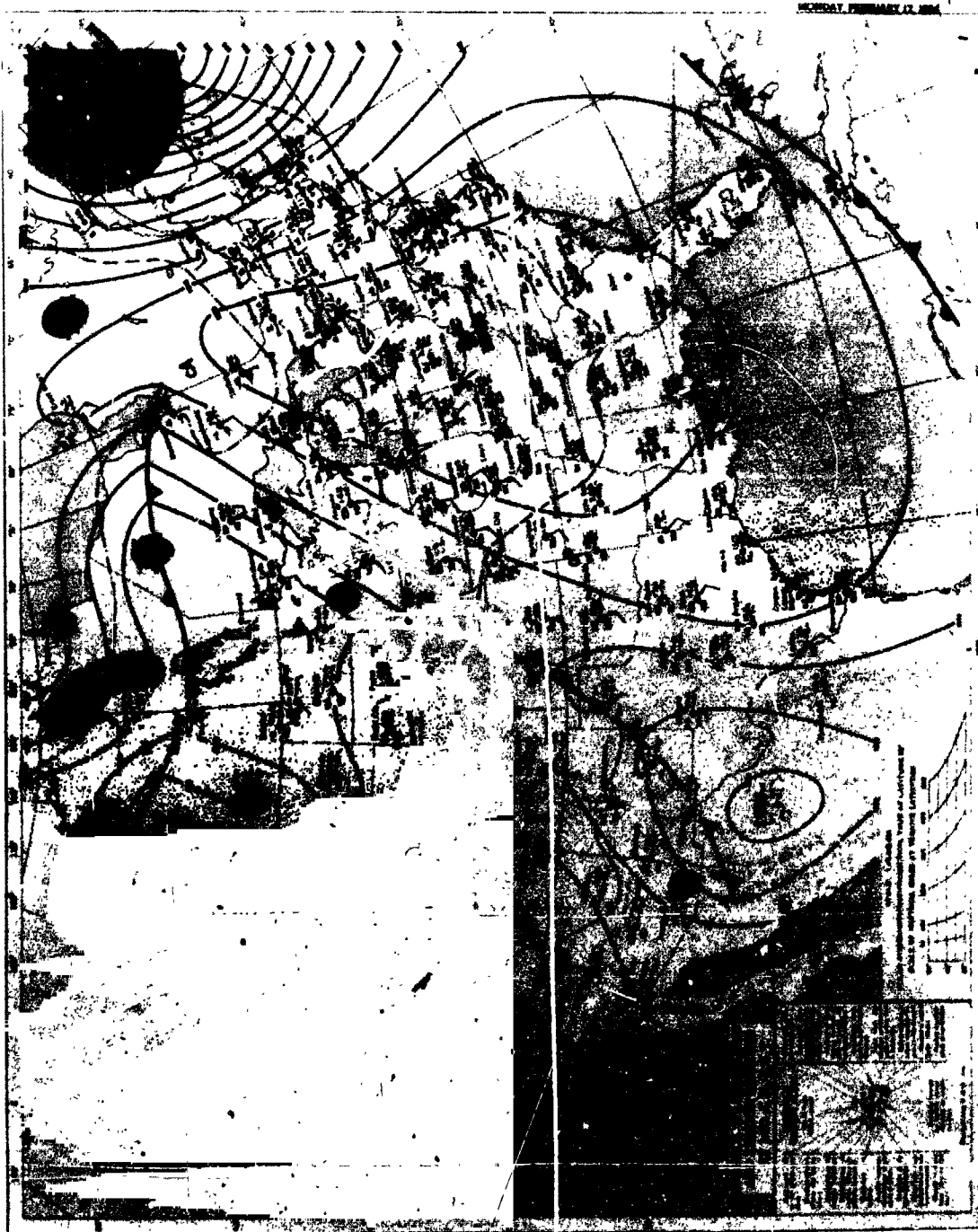
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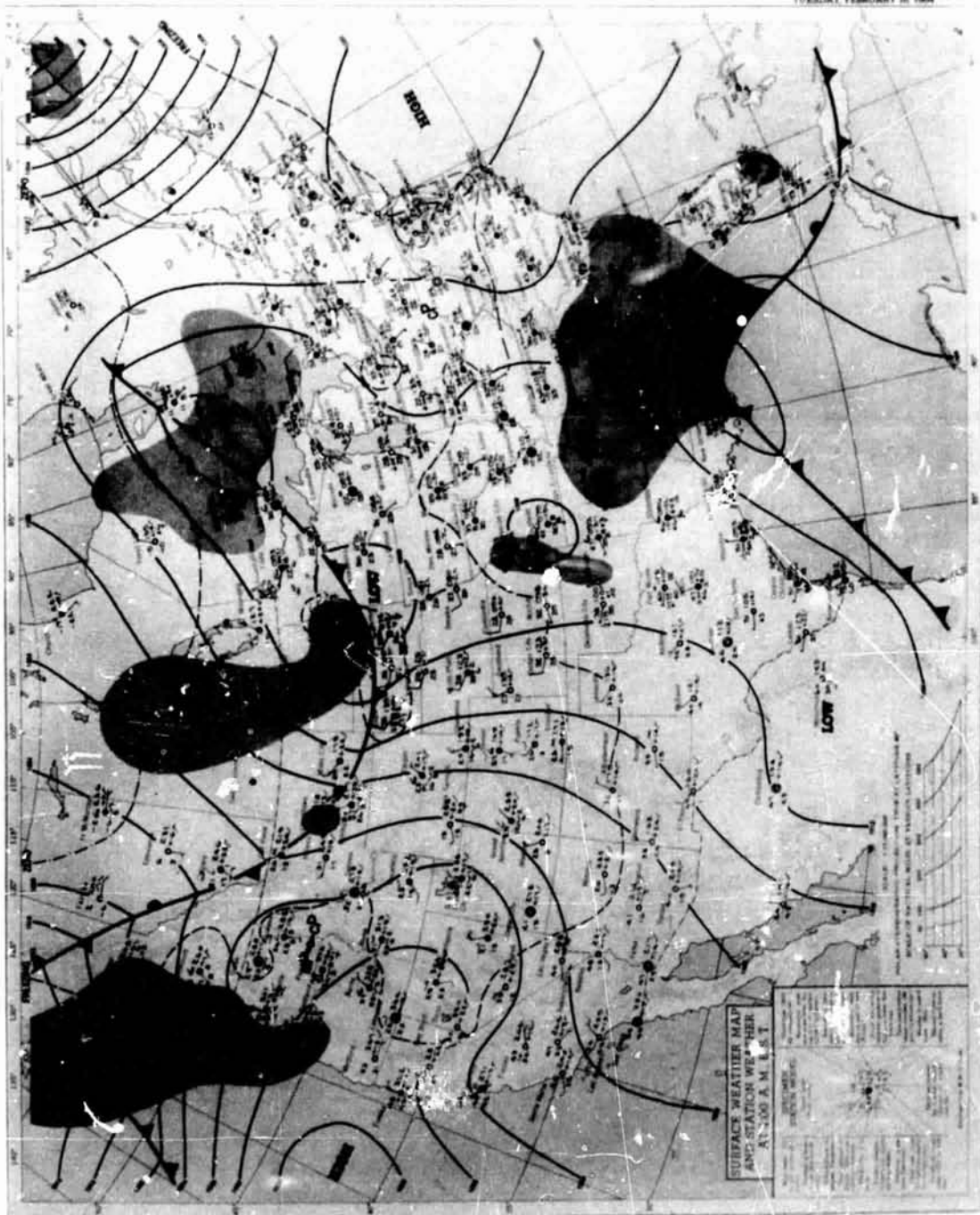
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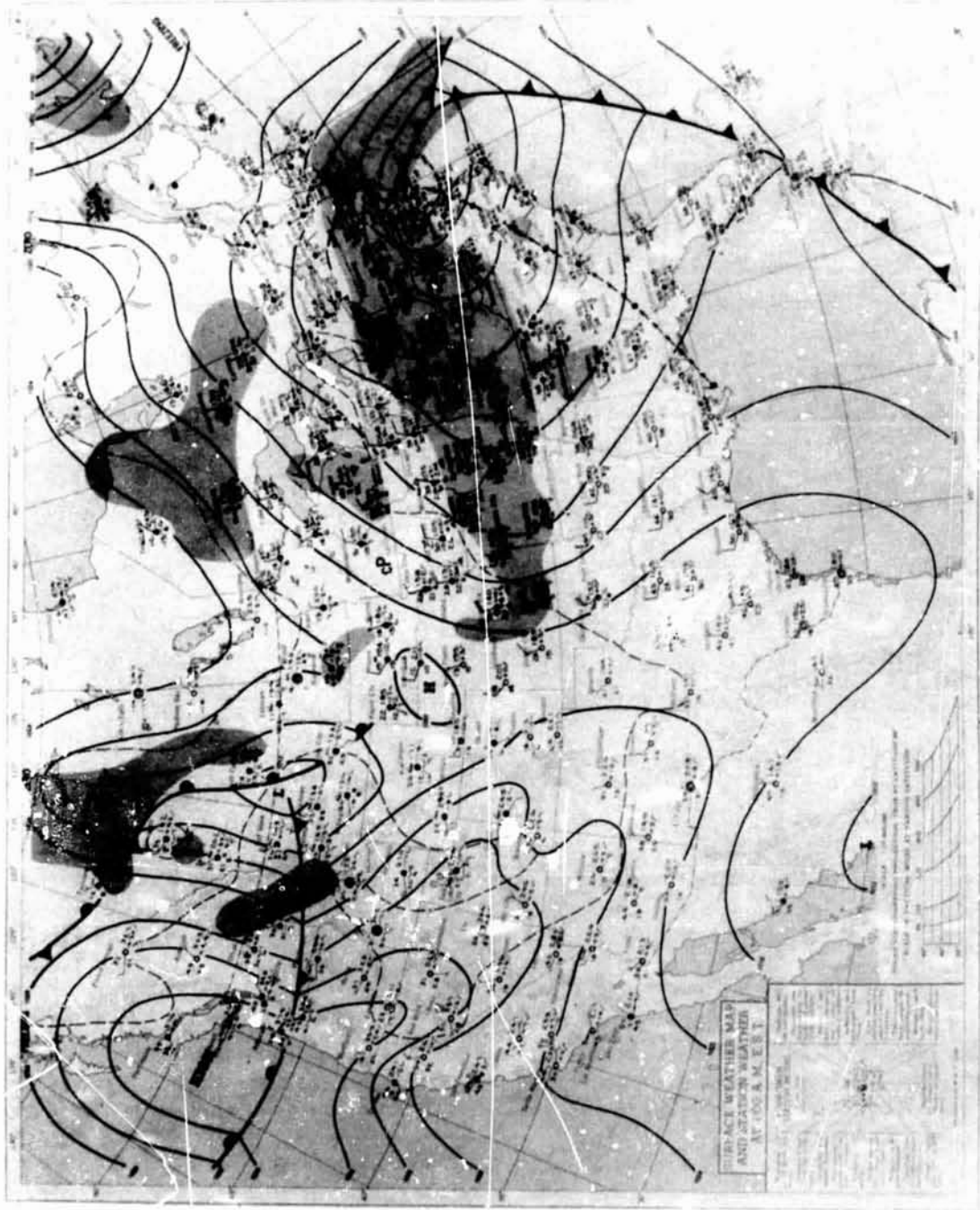


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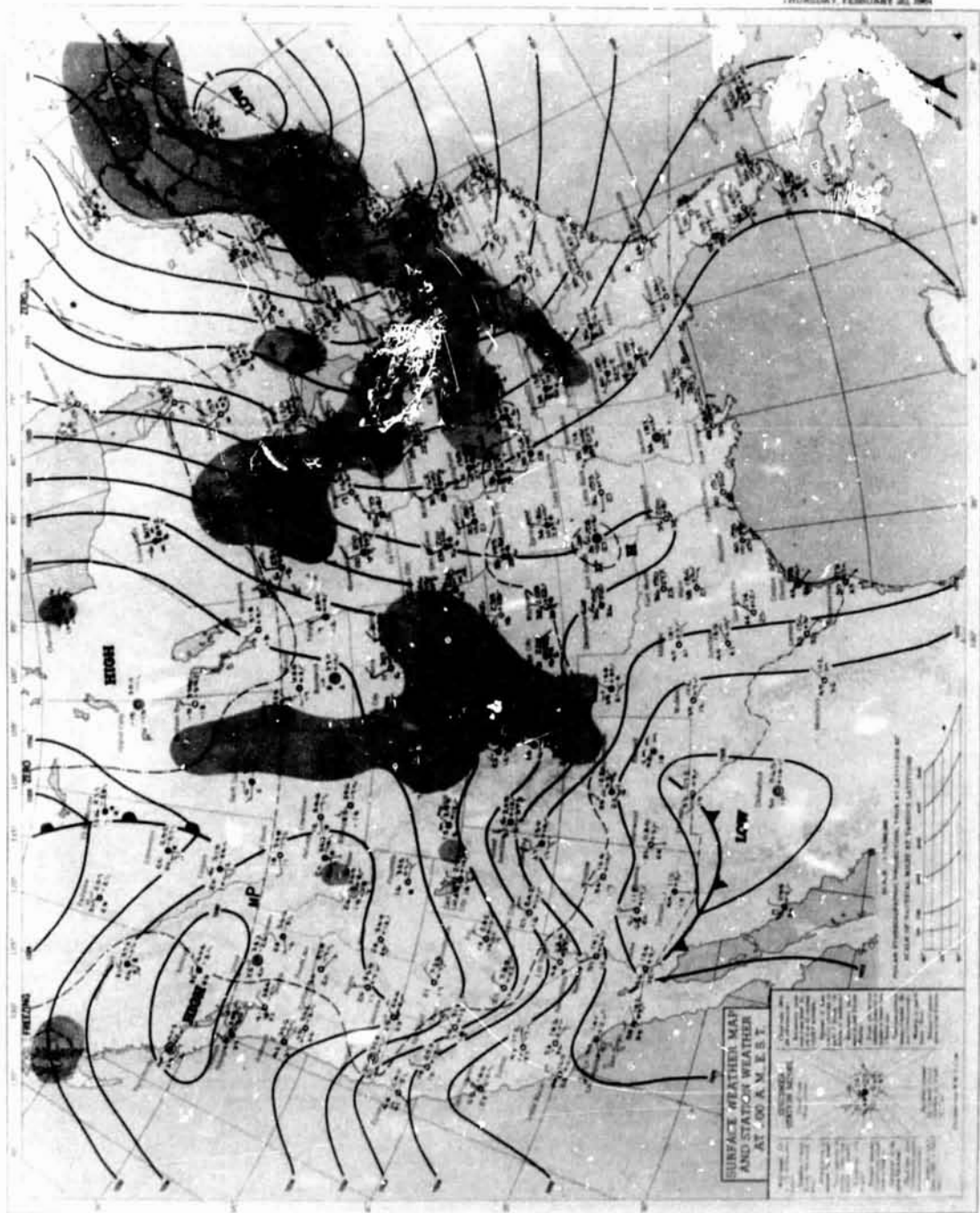


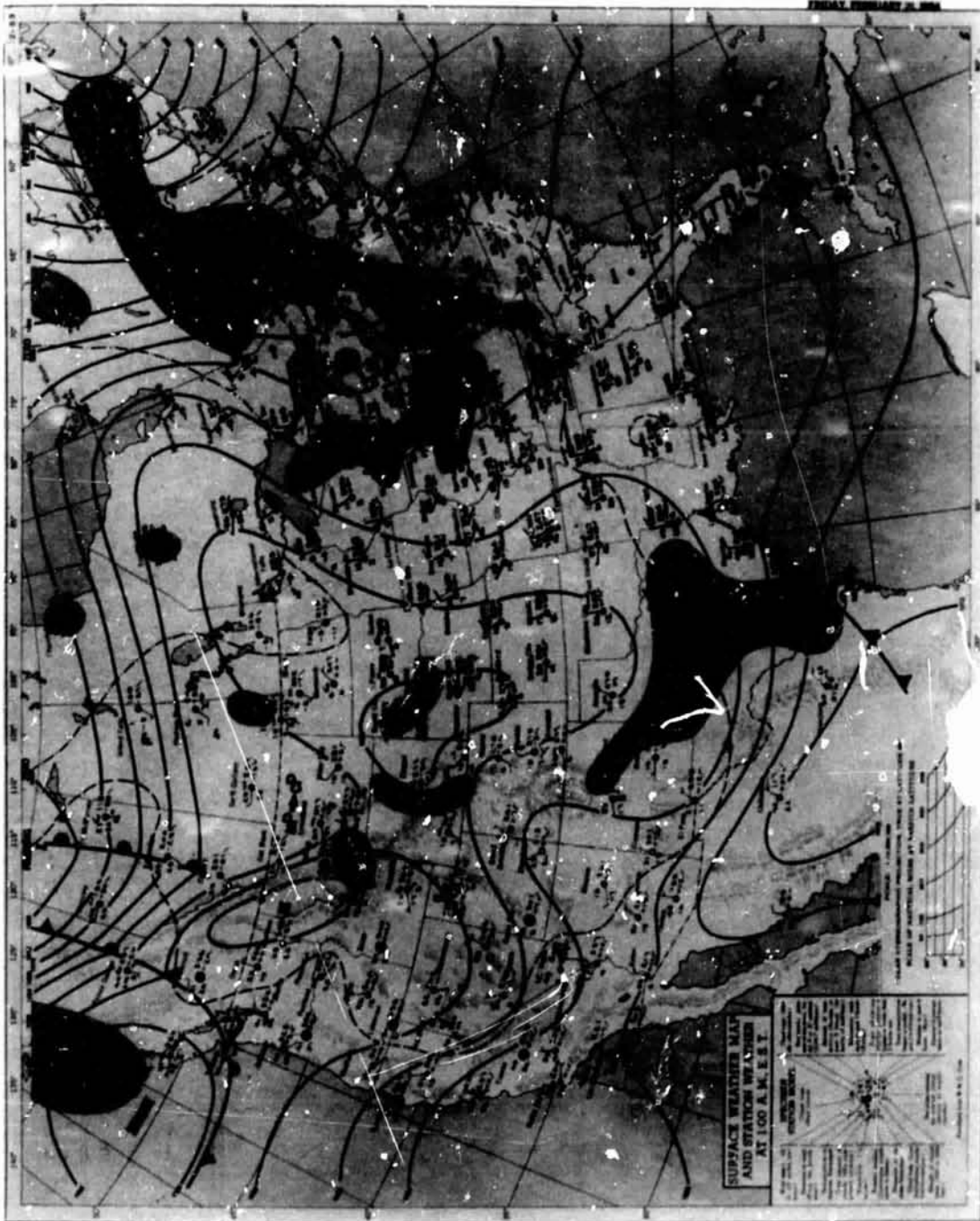
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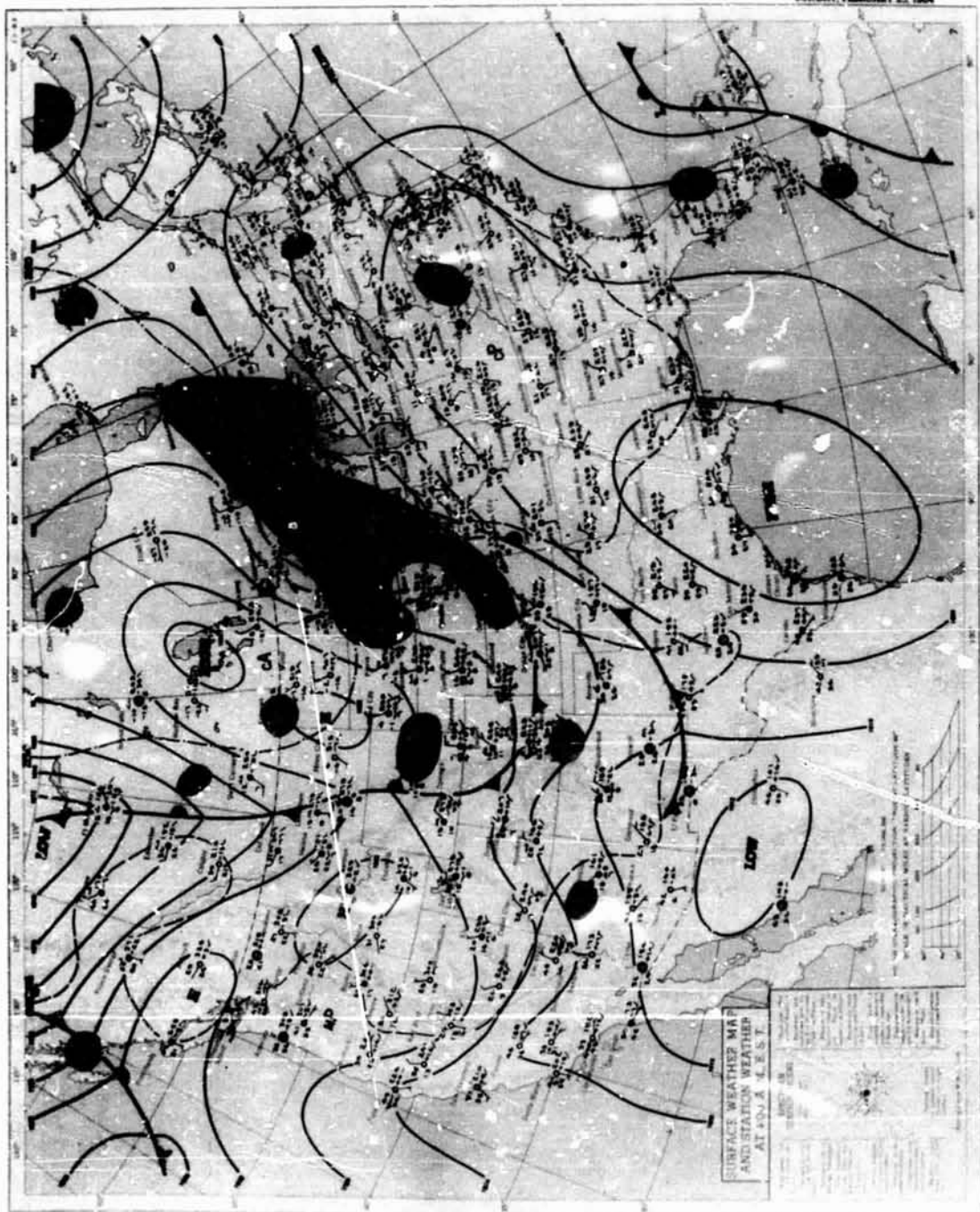


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SUNDAY, FEBRUARY 23, 1964



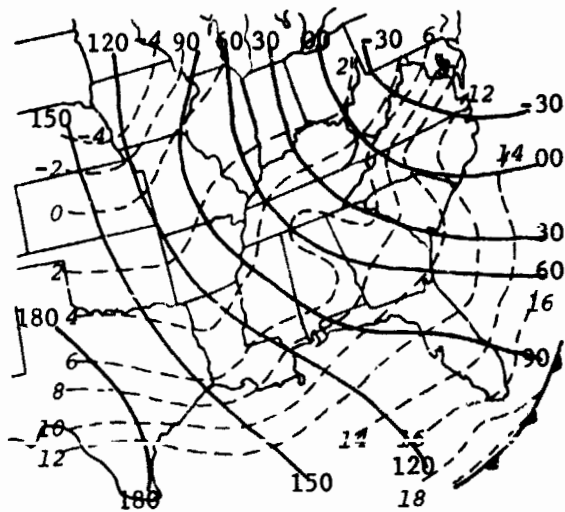
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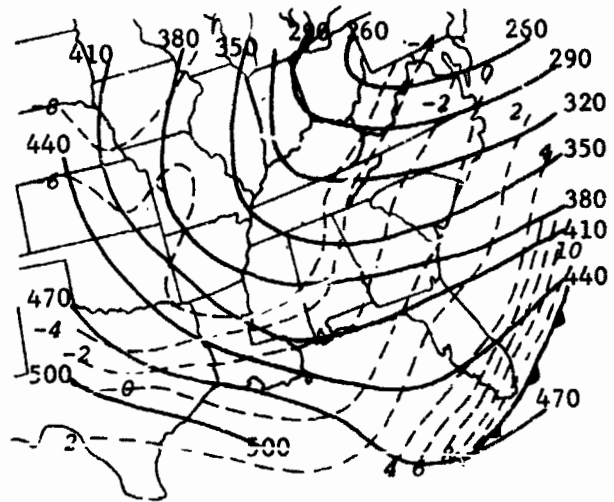
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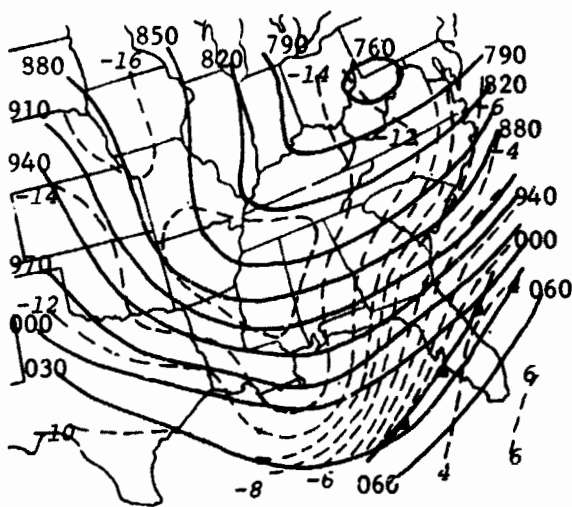
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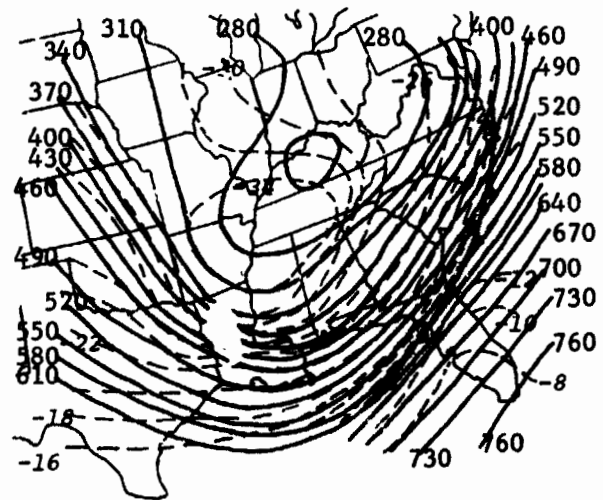
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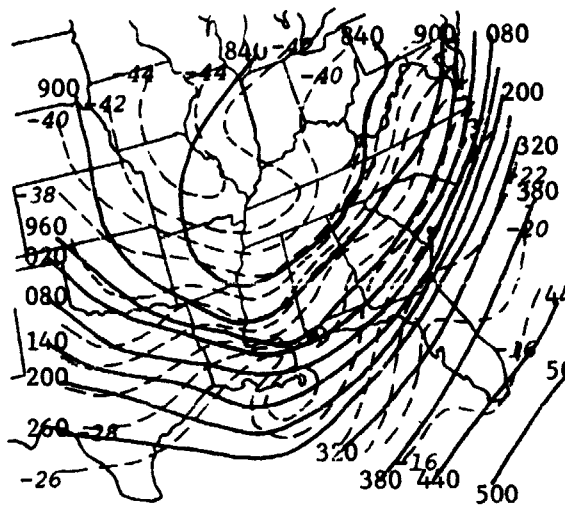


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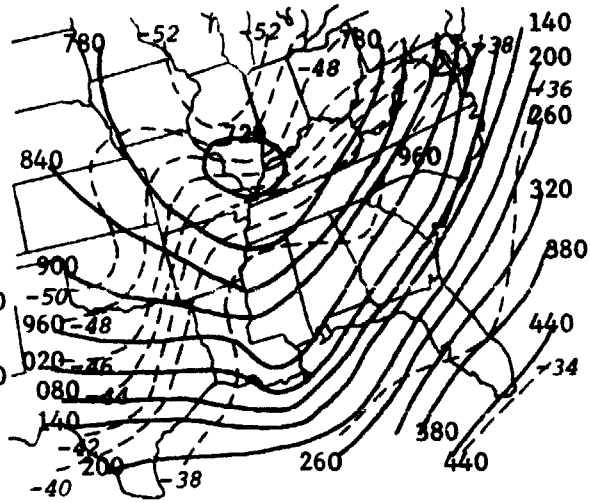


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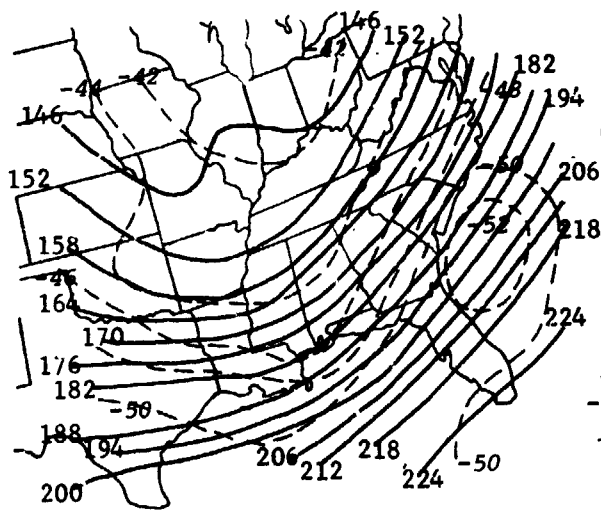
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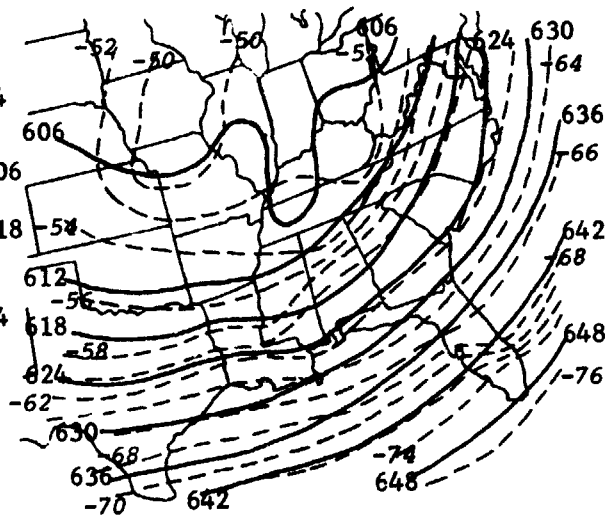
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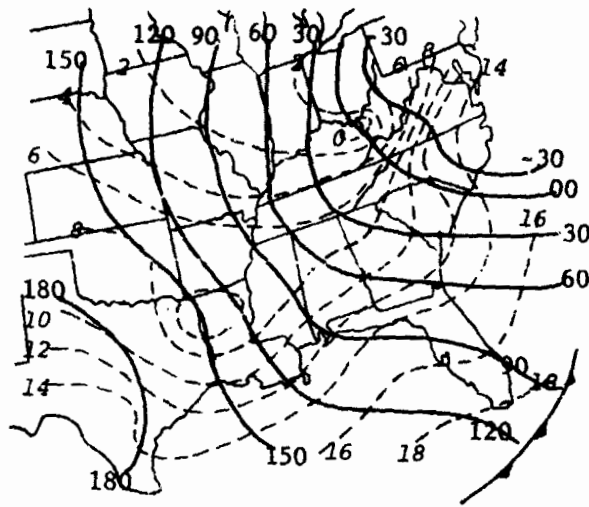


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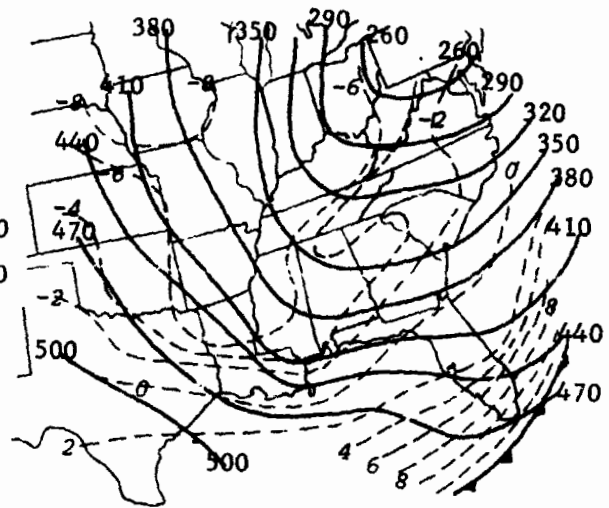


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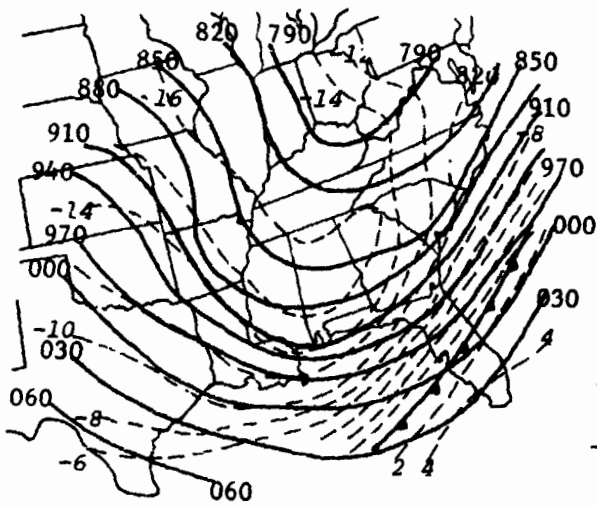
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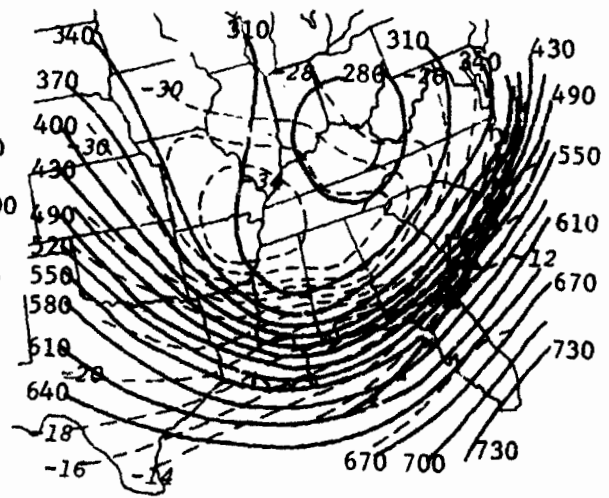
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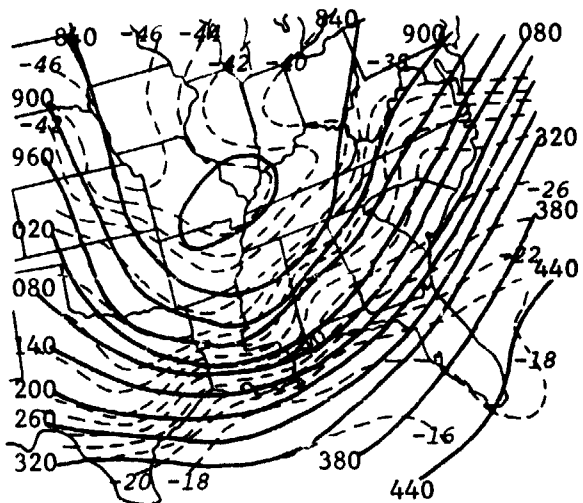


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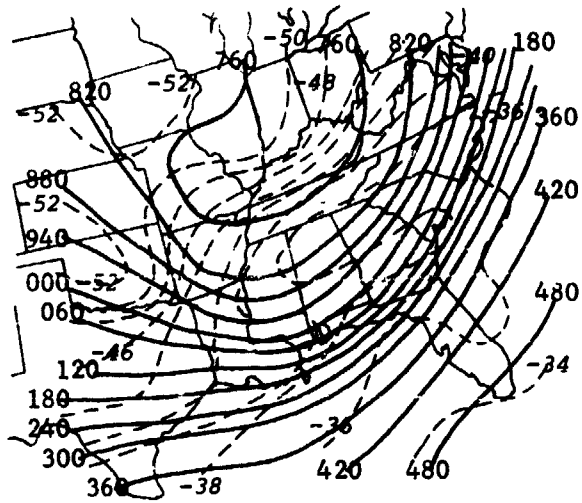


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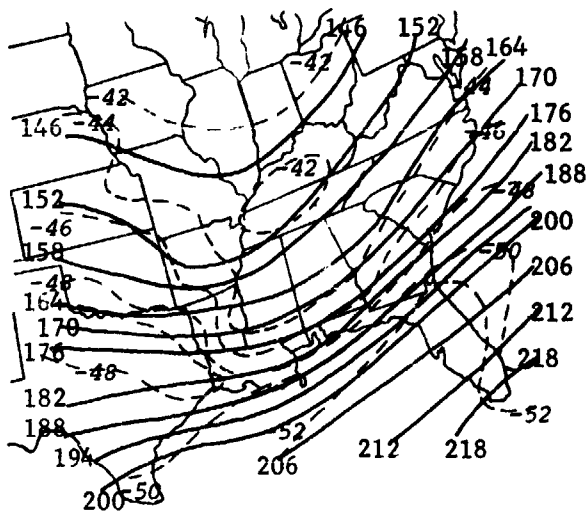
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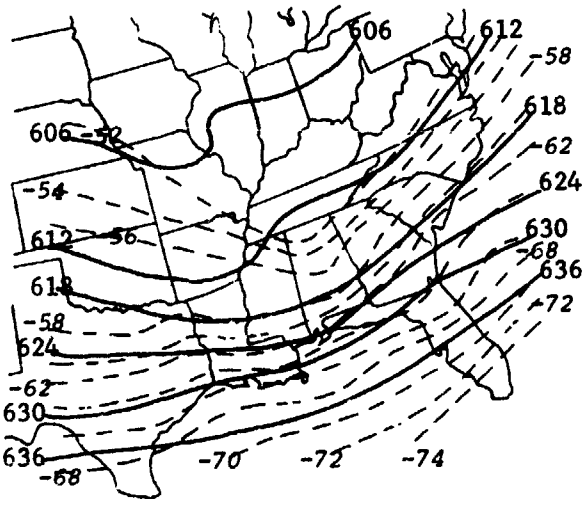
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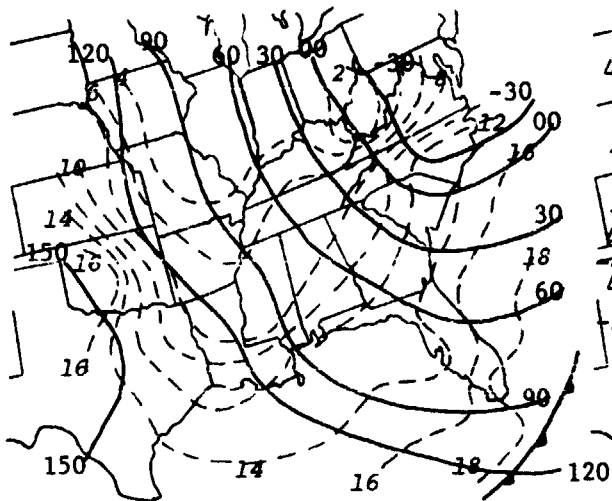


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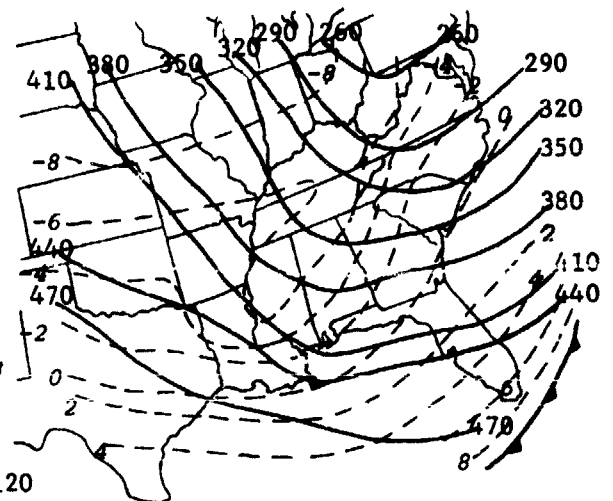


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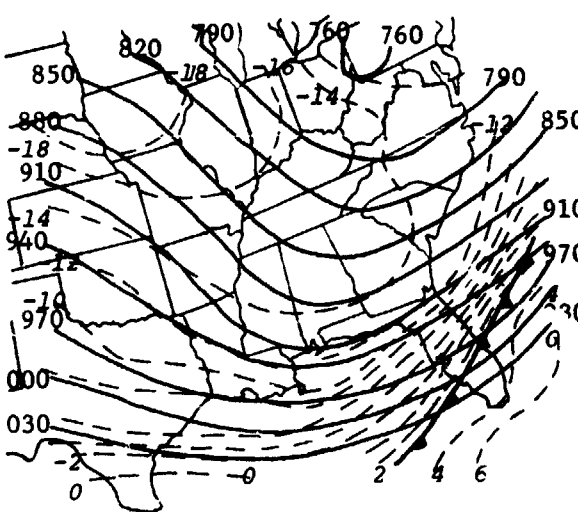
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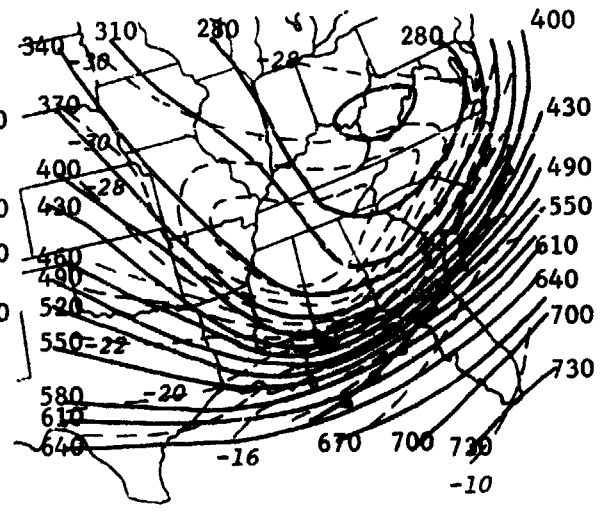
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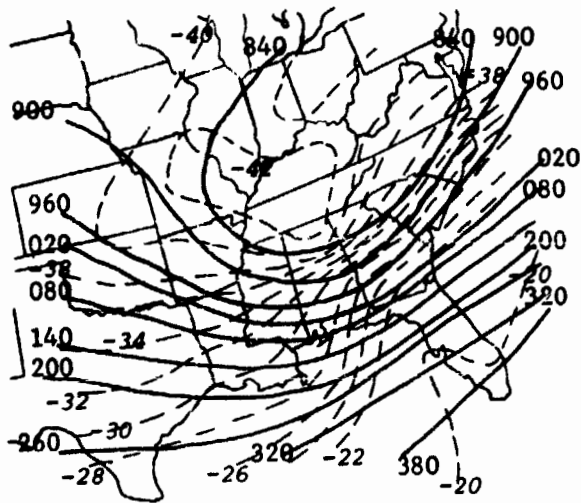


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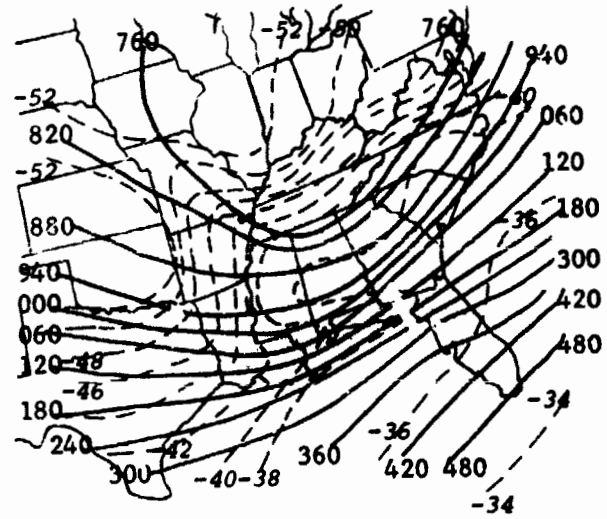


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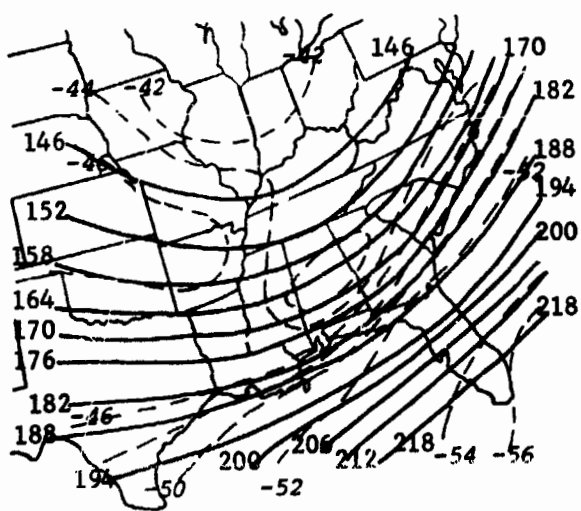
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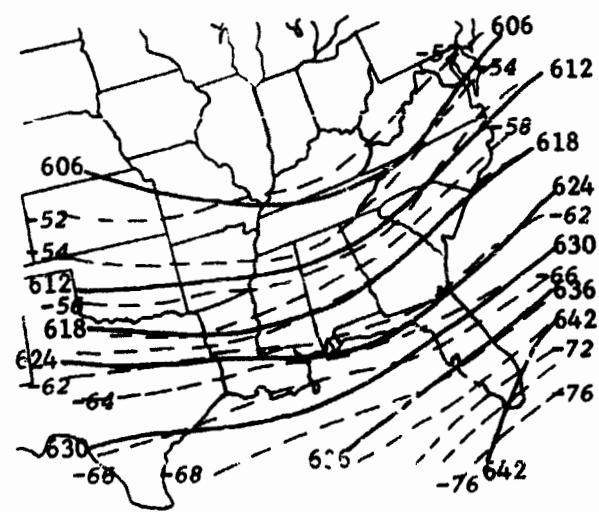
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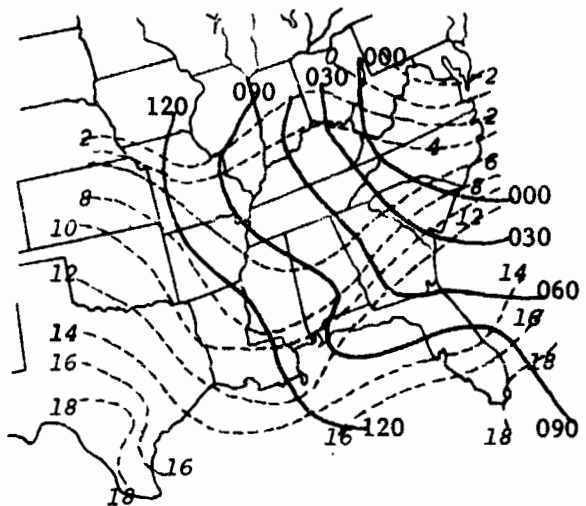


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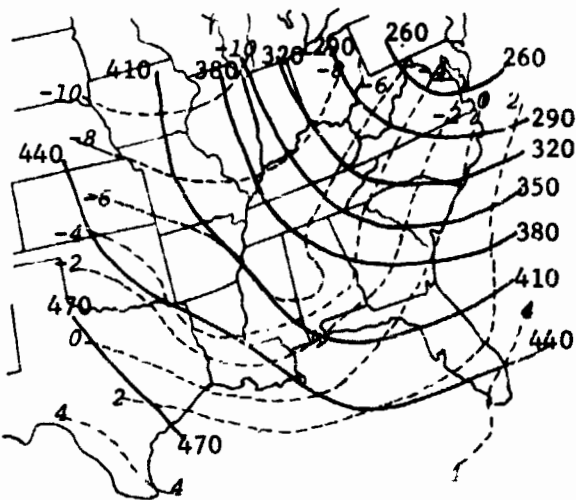


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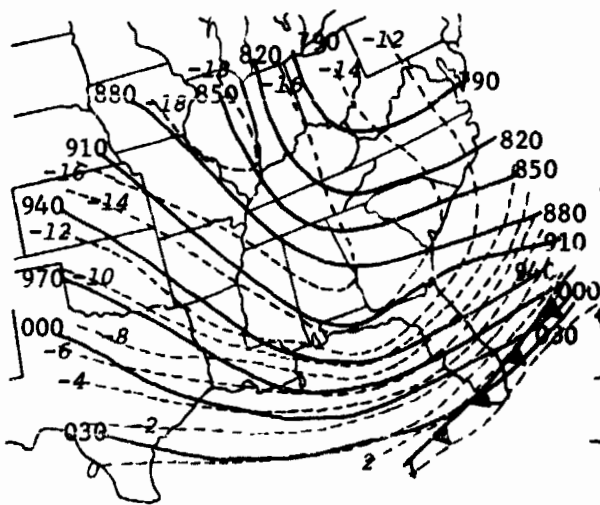
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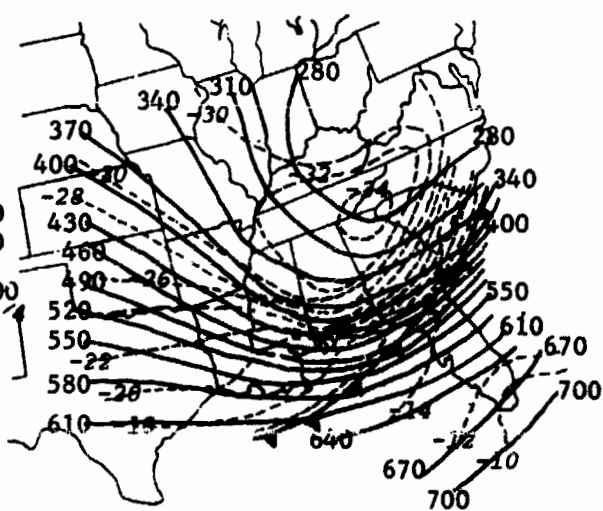
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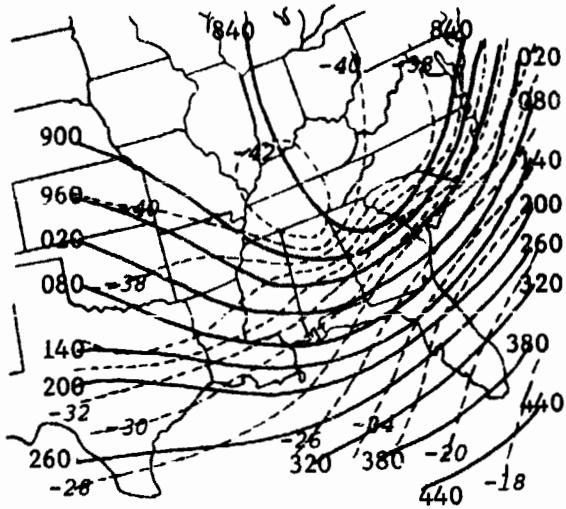


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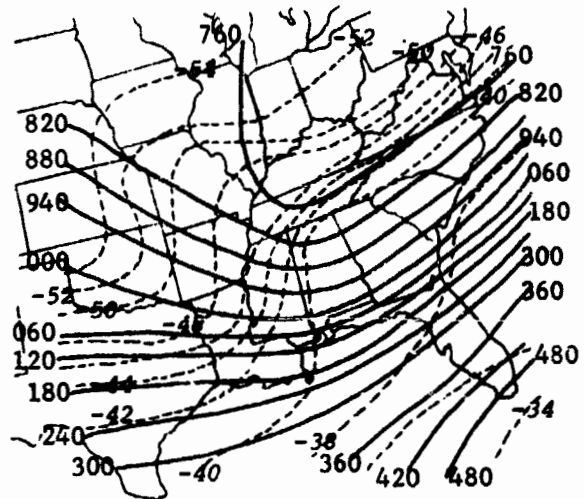


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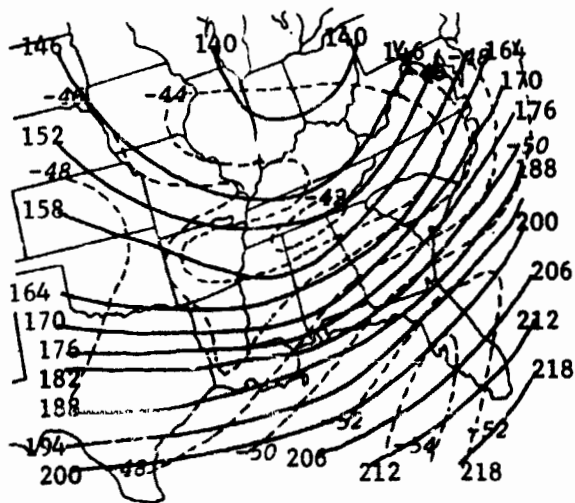
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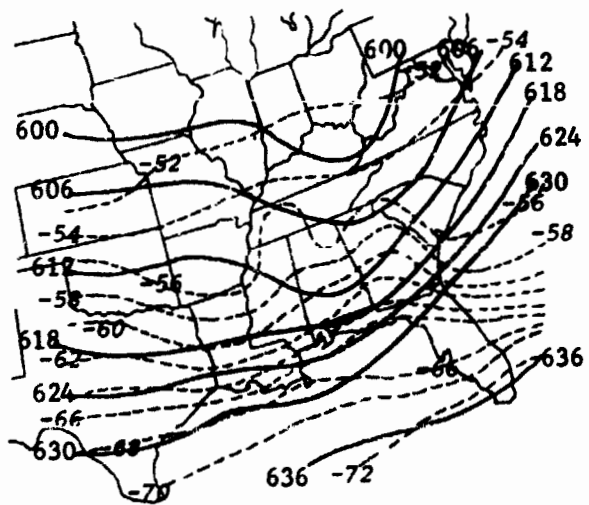
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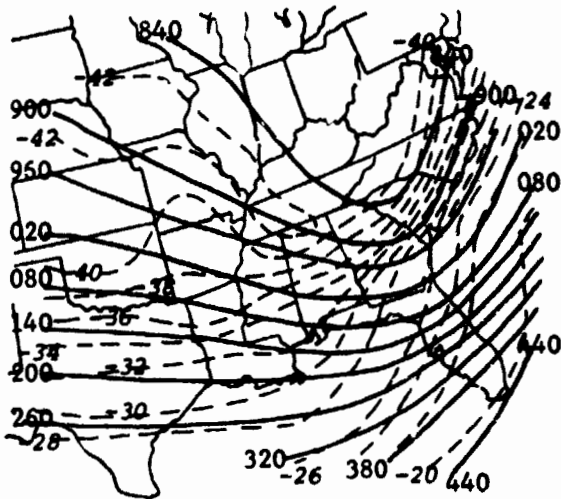


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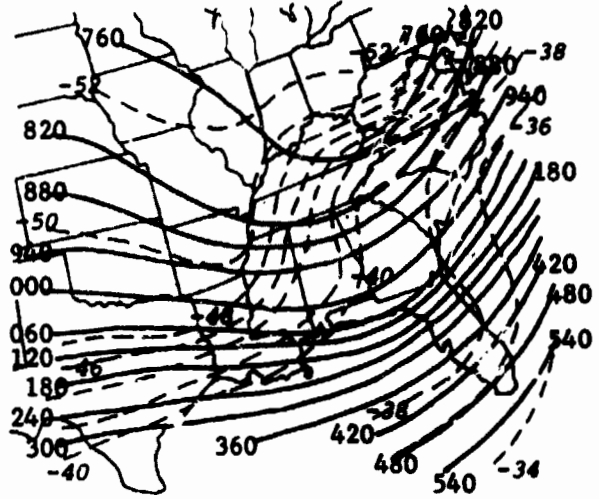


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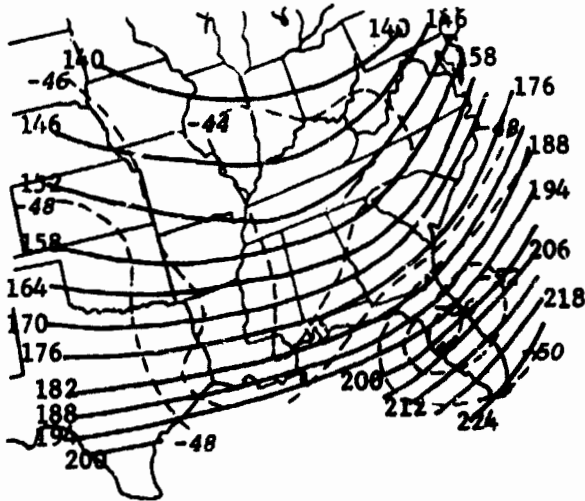
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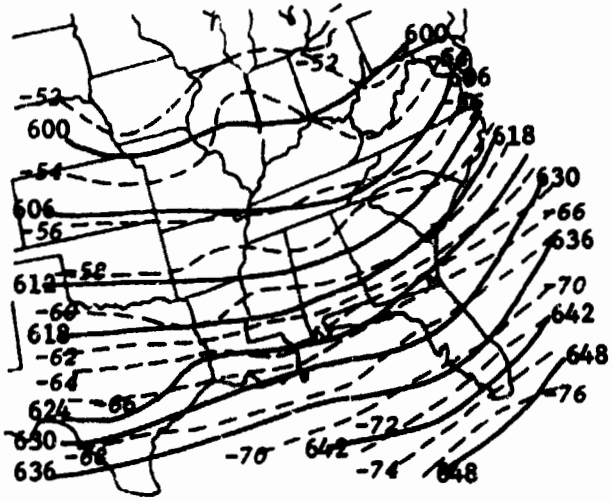
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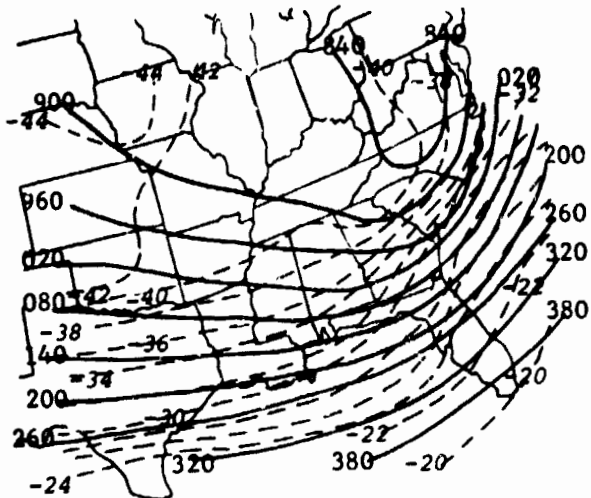


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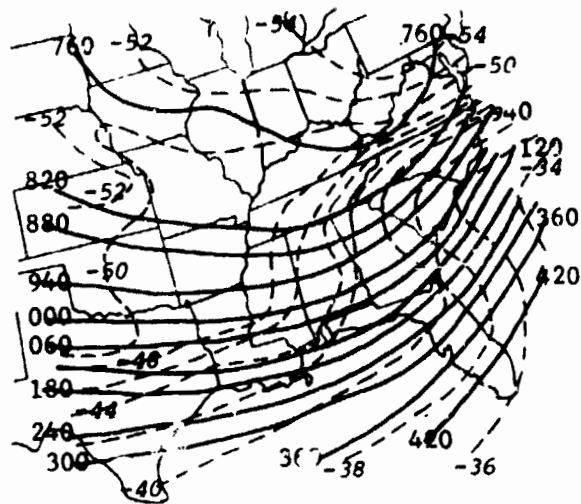


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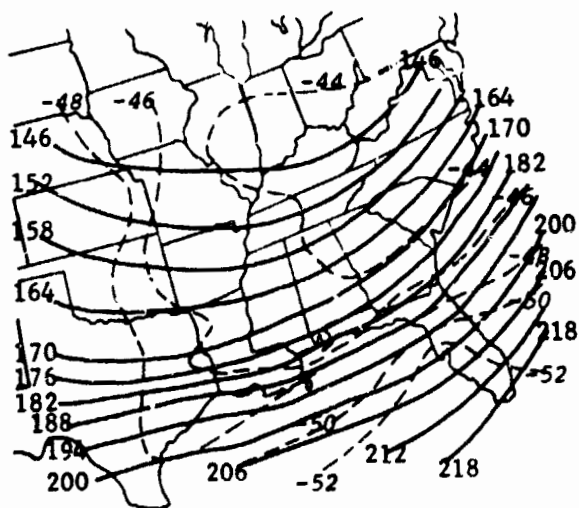
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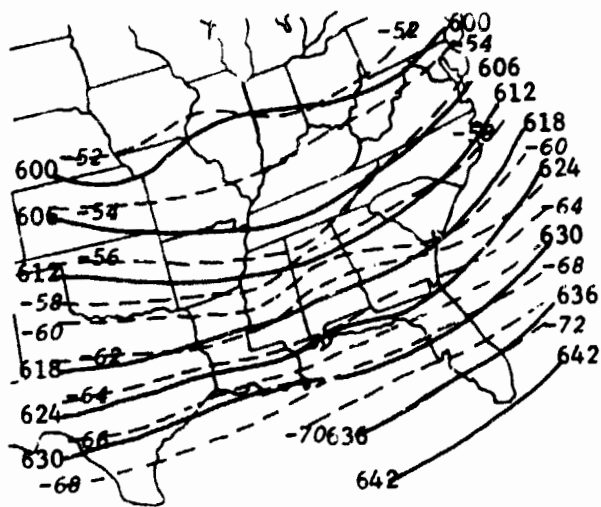
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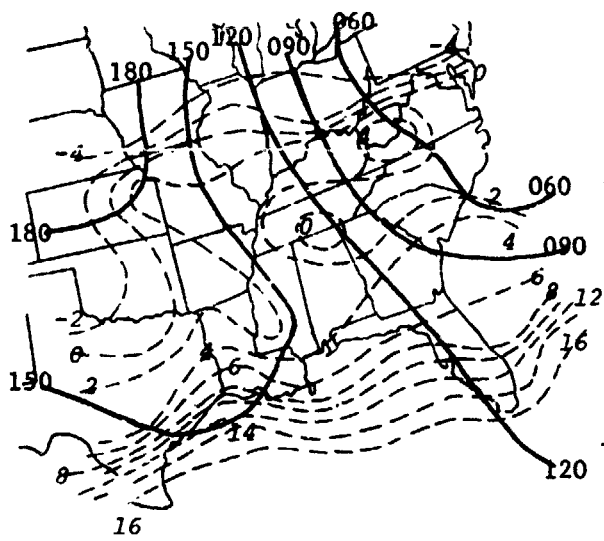


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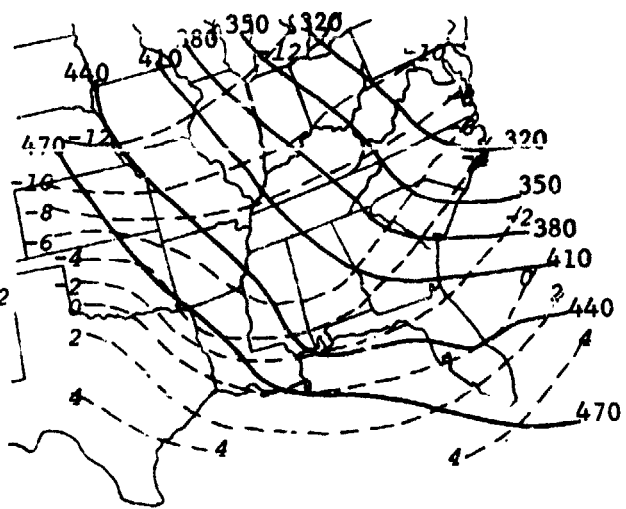


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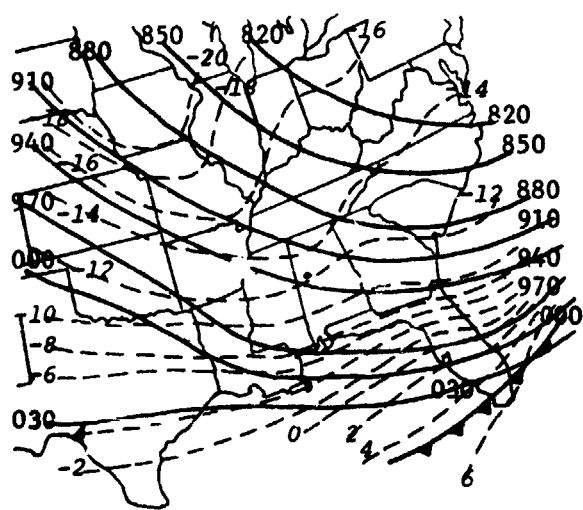
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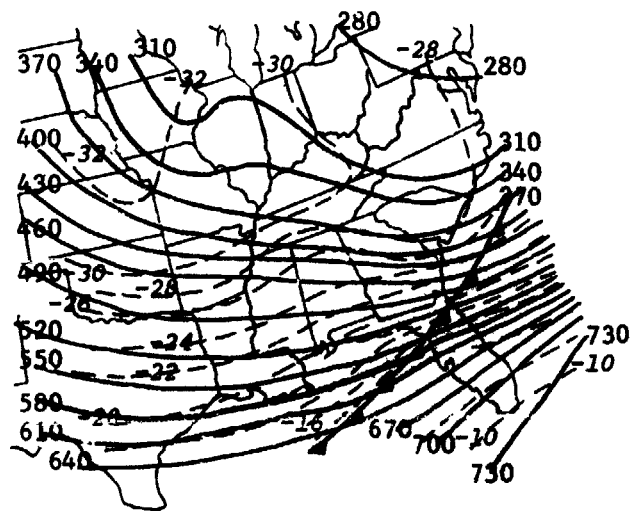
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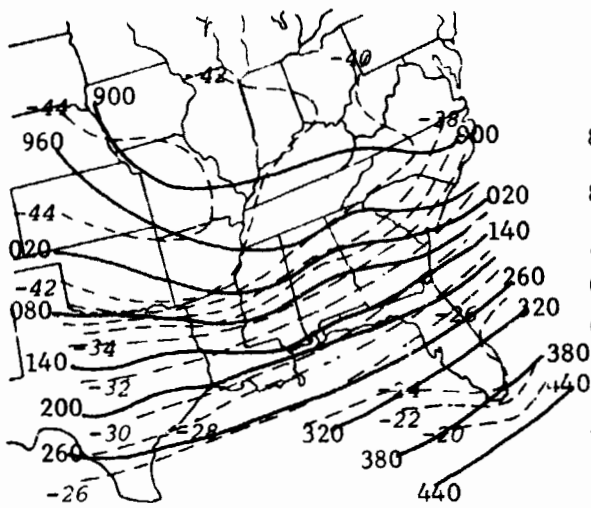


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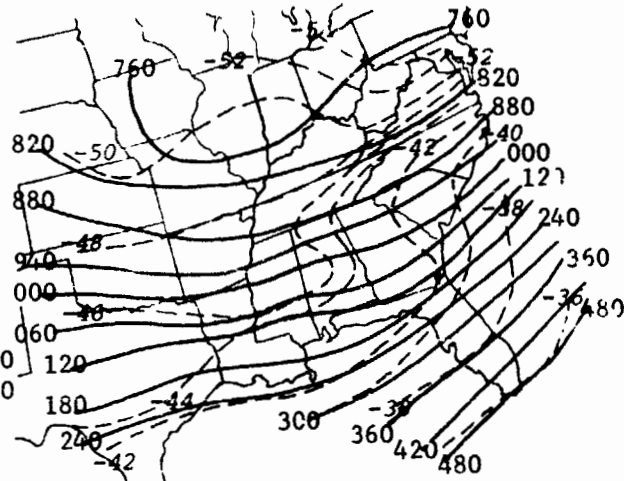


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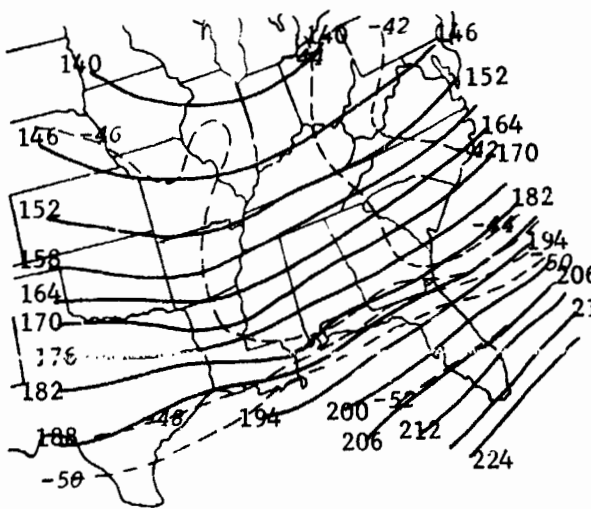
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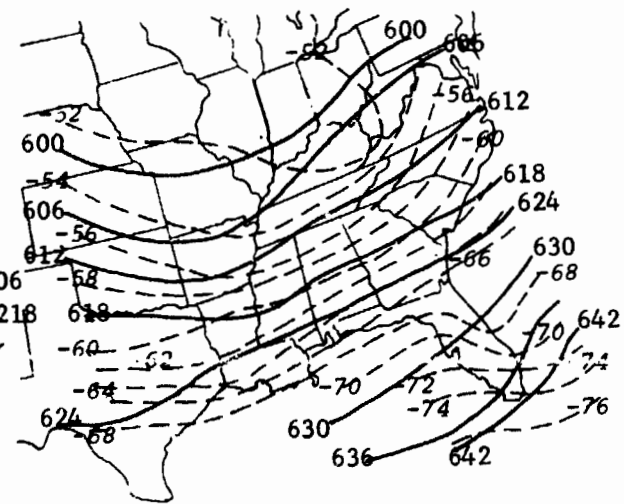
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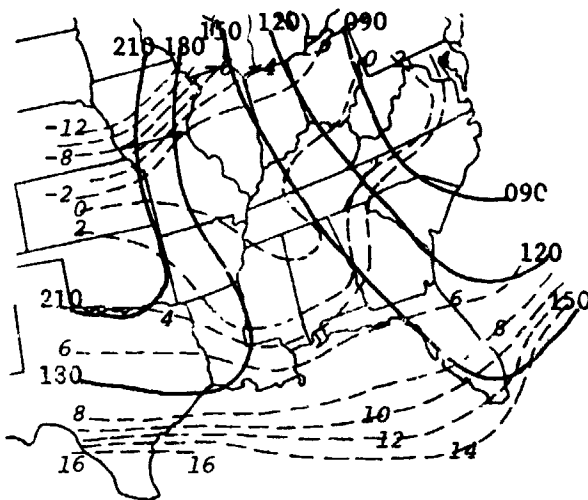


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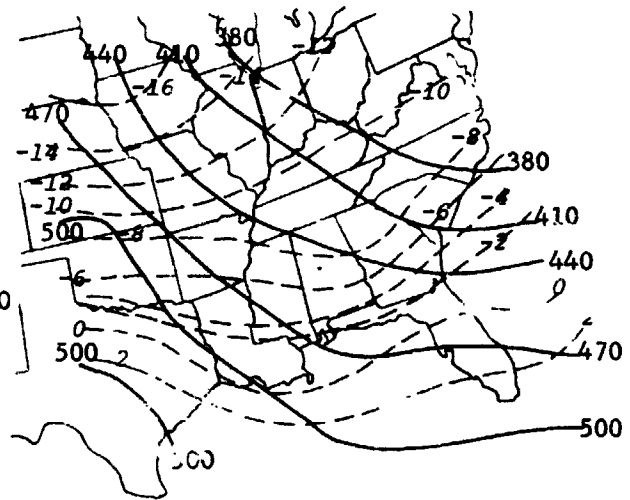


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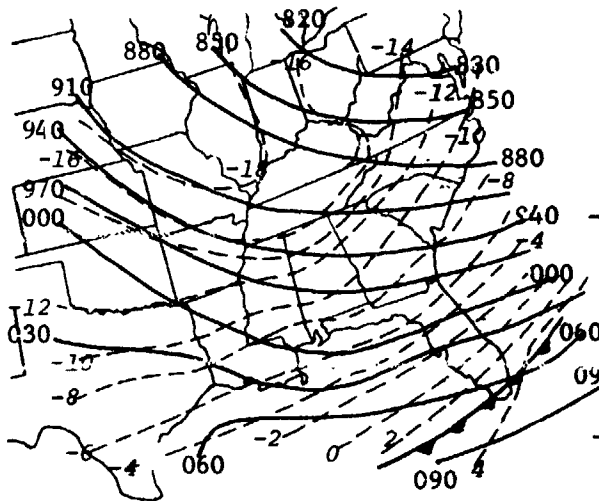
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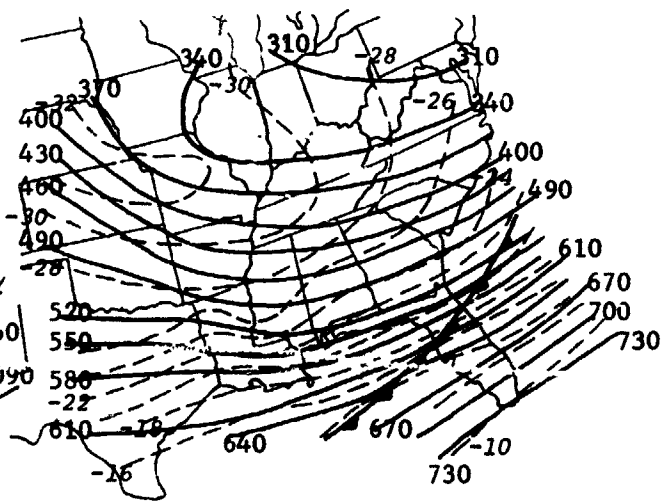
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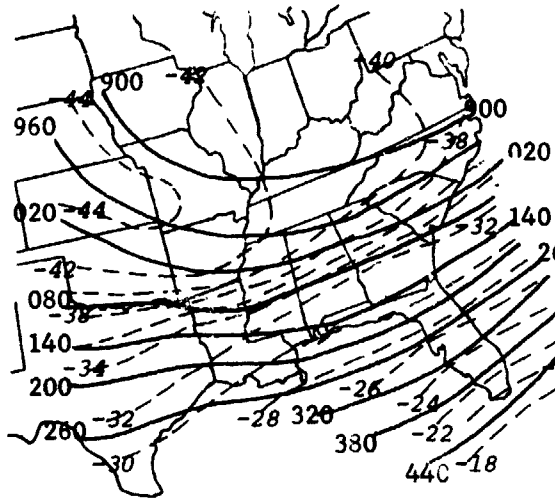


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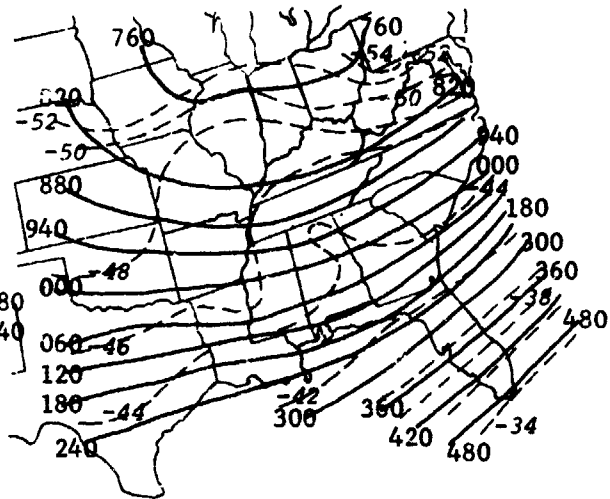


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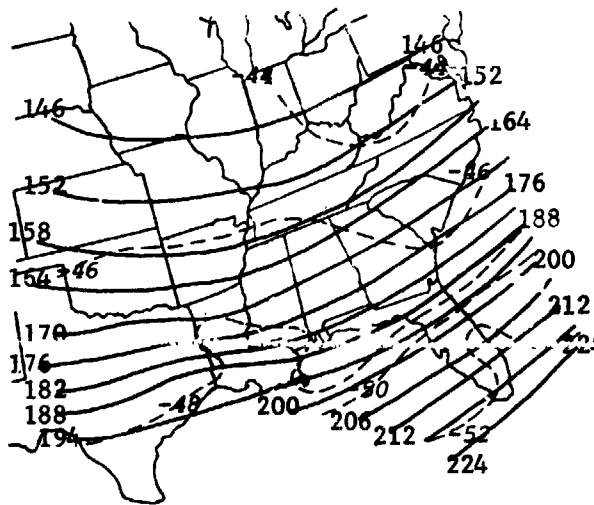
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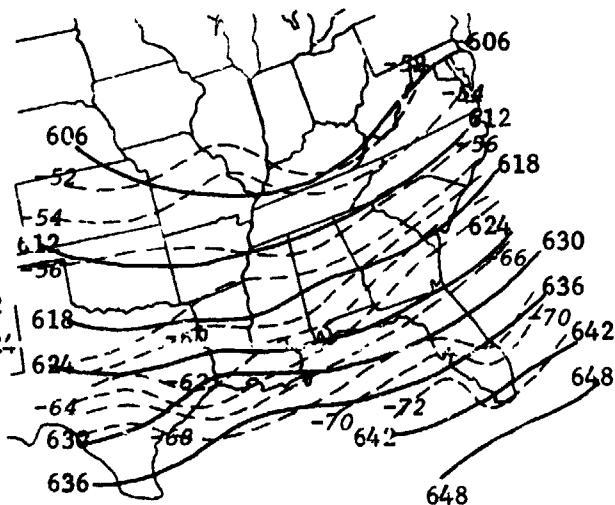
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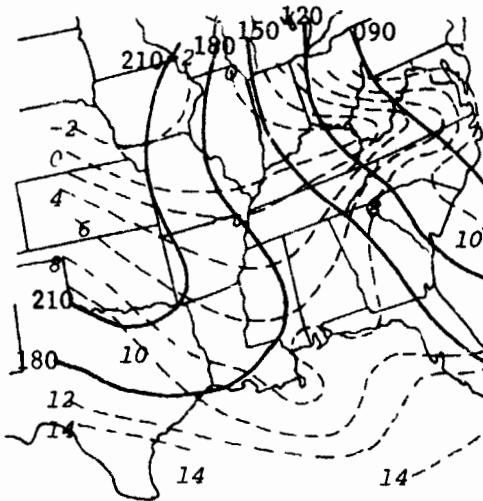


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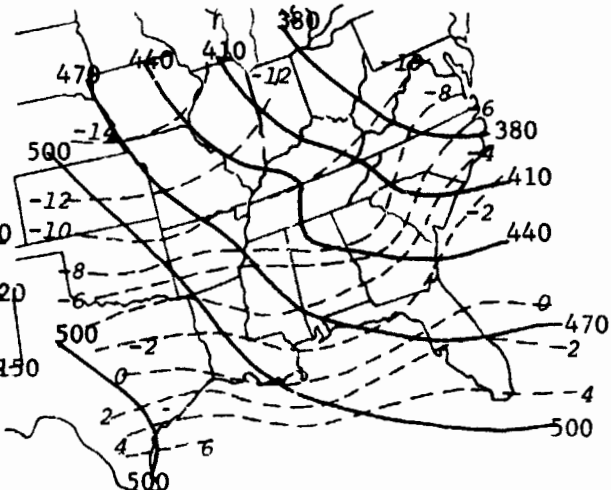


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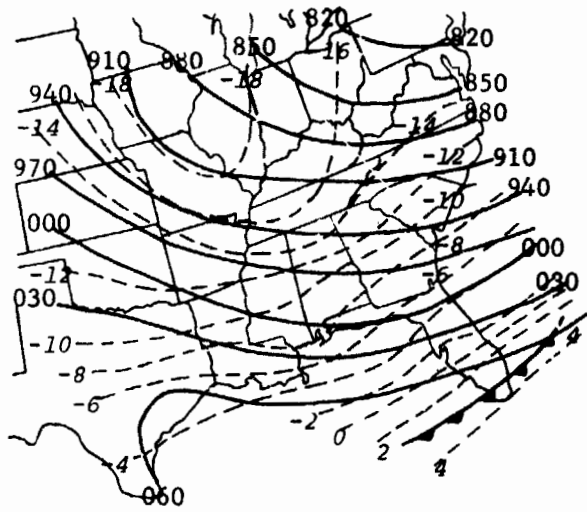
1500 GMT
February 20, 1964



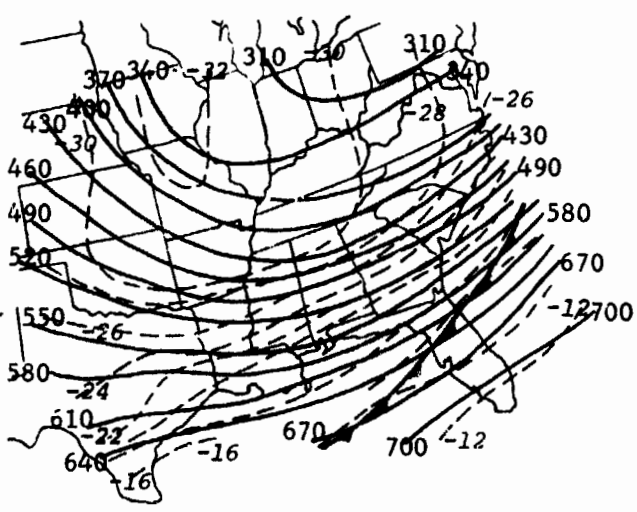
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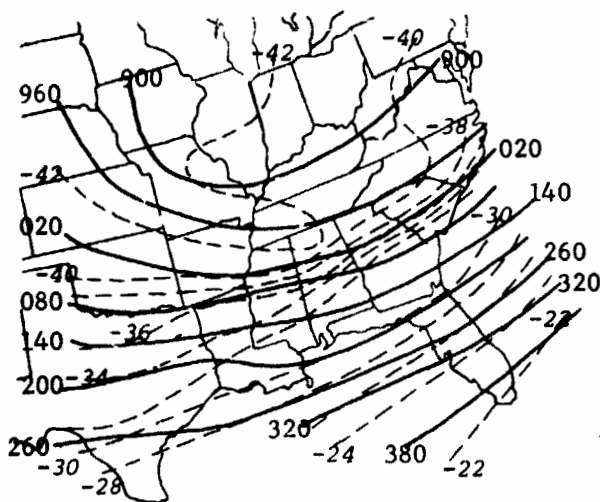


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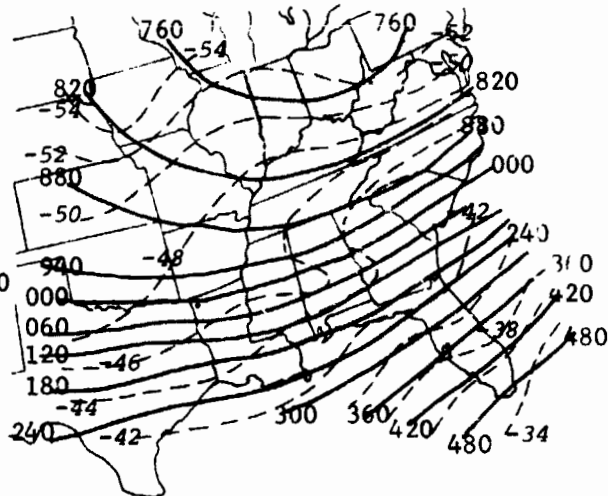


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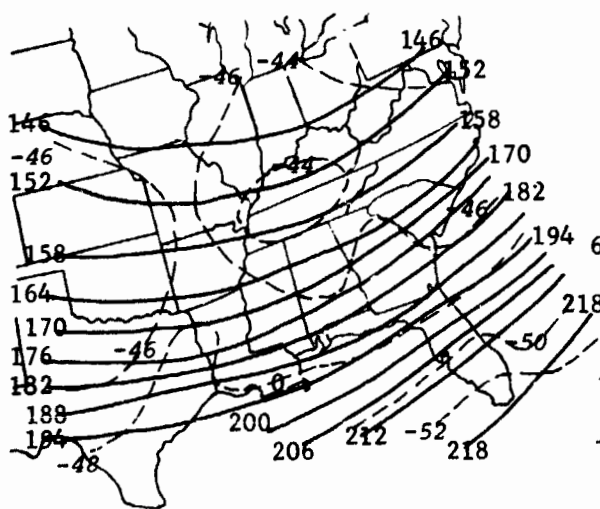
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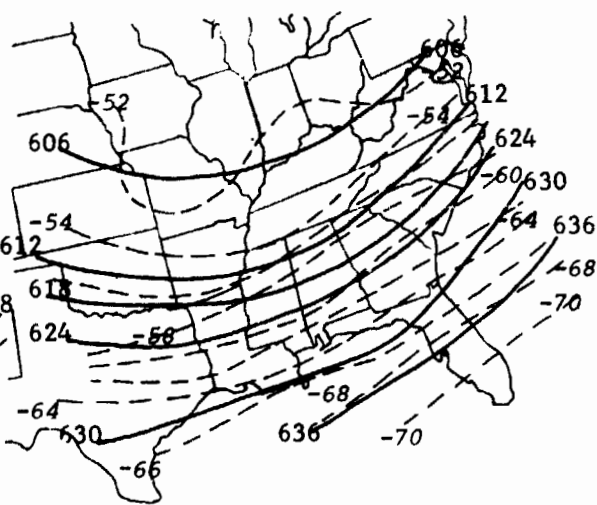
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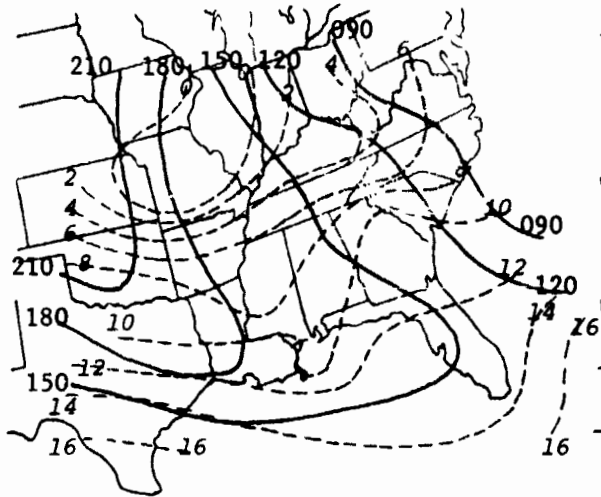


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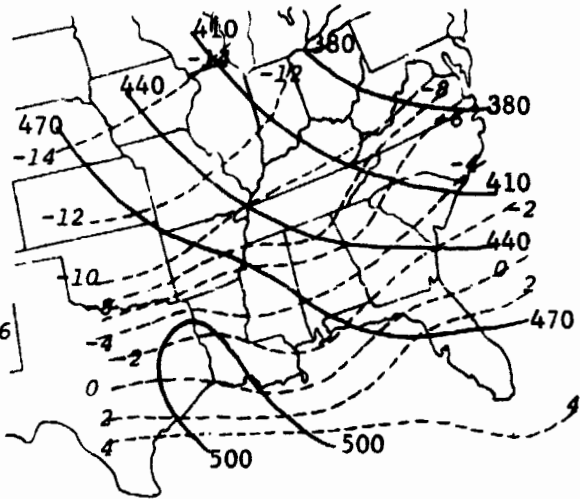


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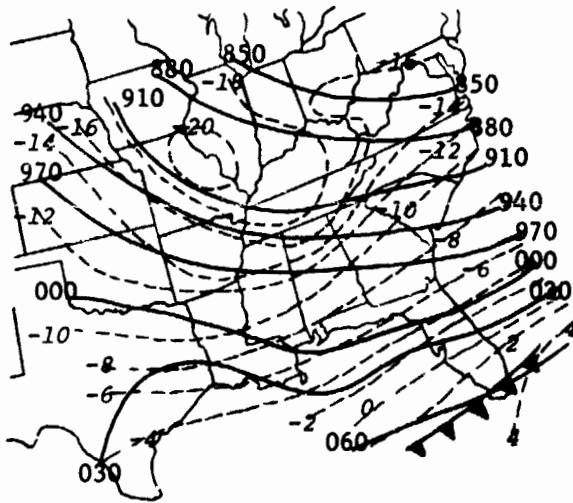
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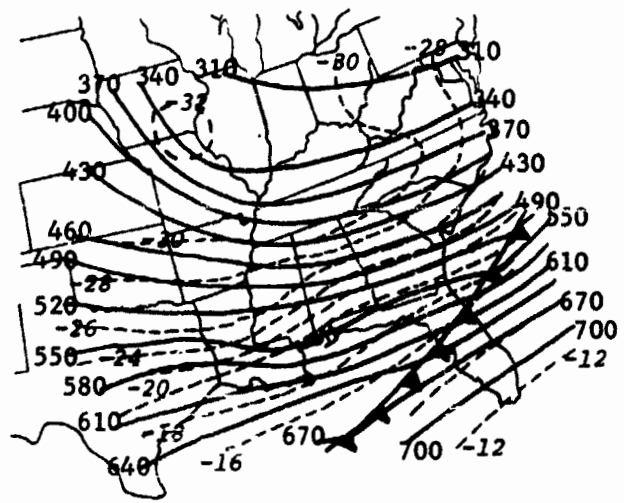
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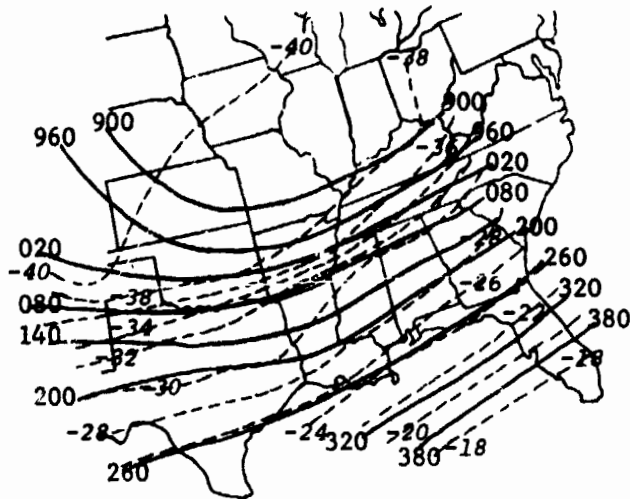


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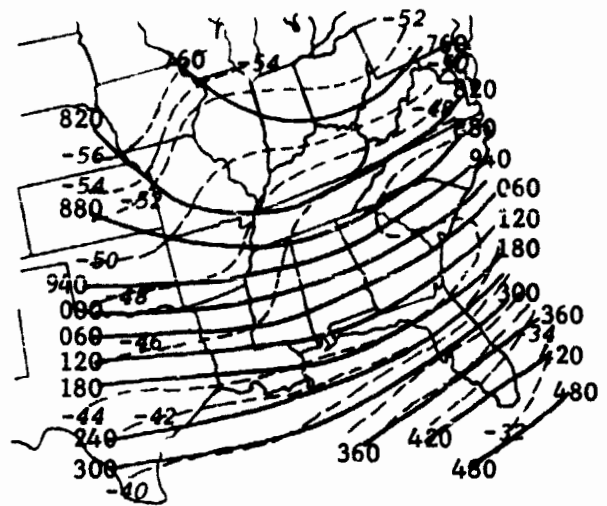


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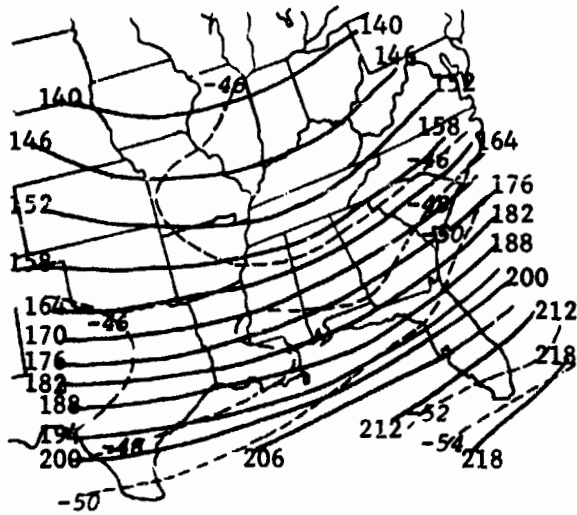
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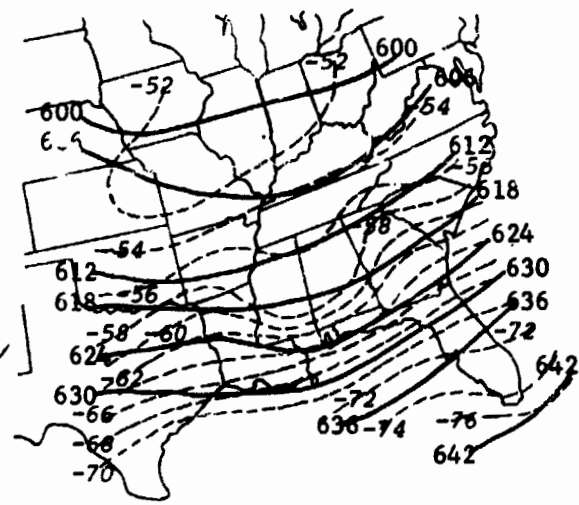
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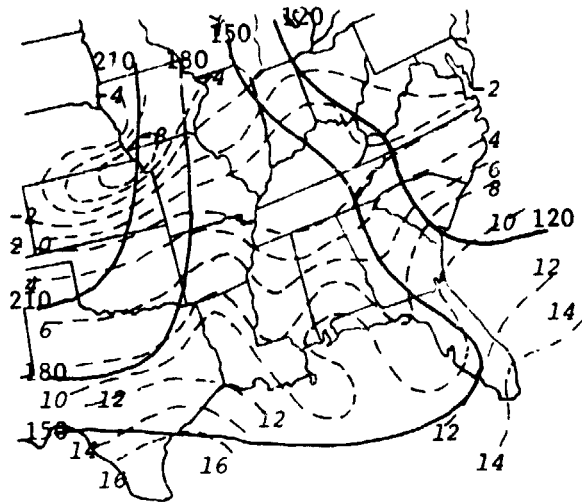


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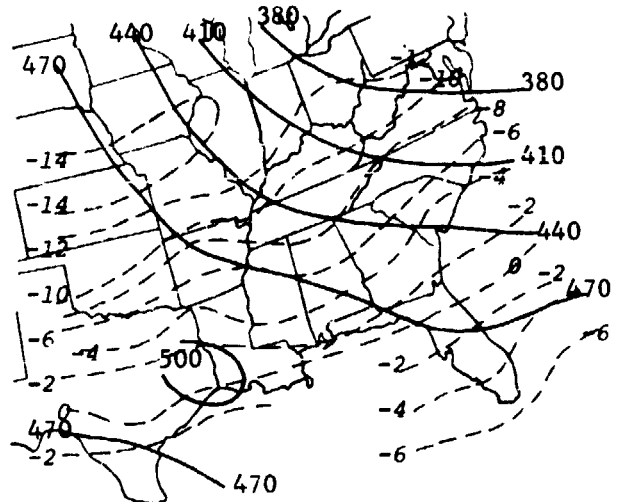


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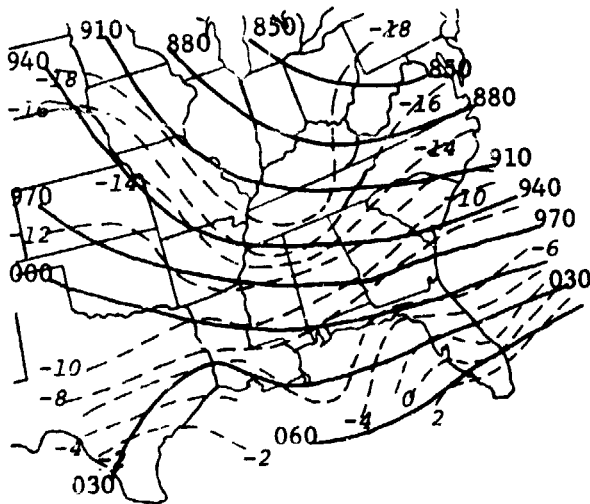
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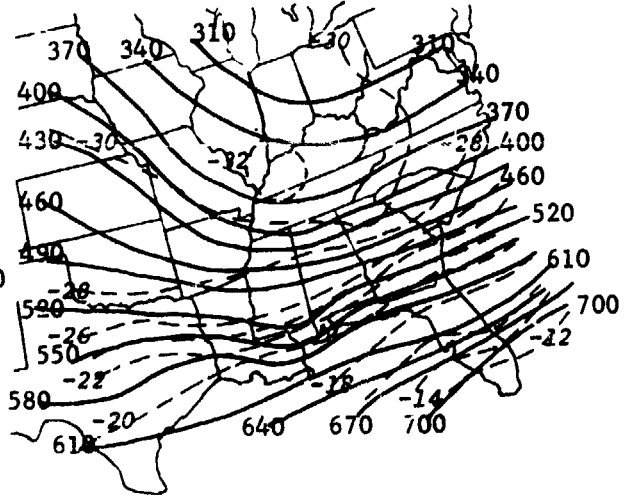
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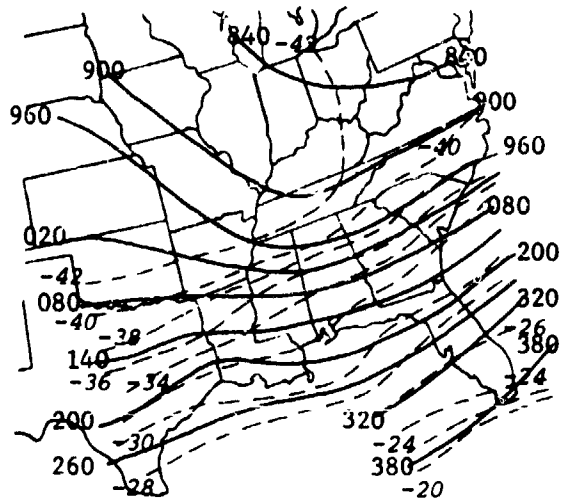


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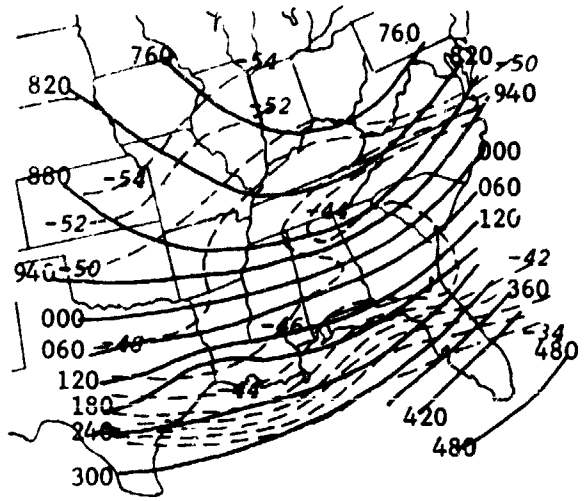


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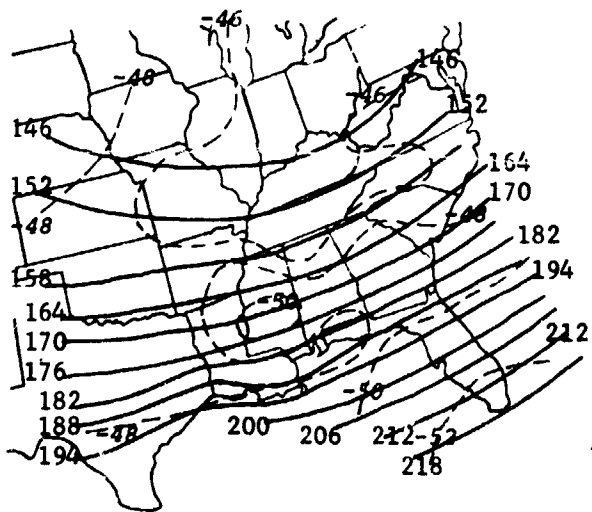
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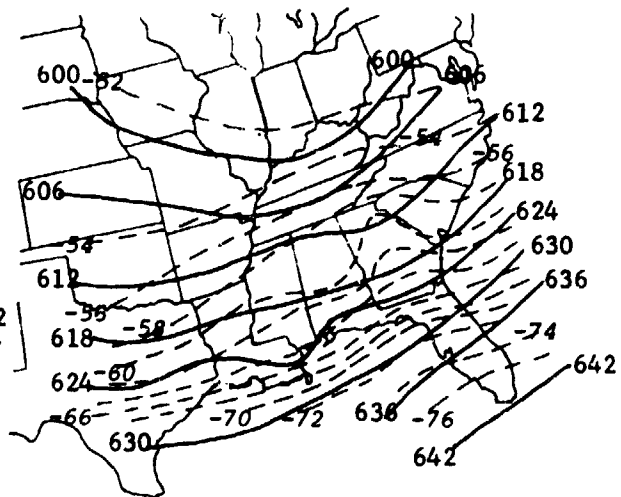
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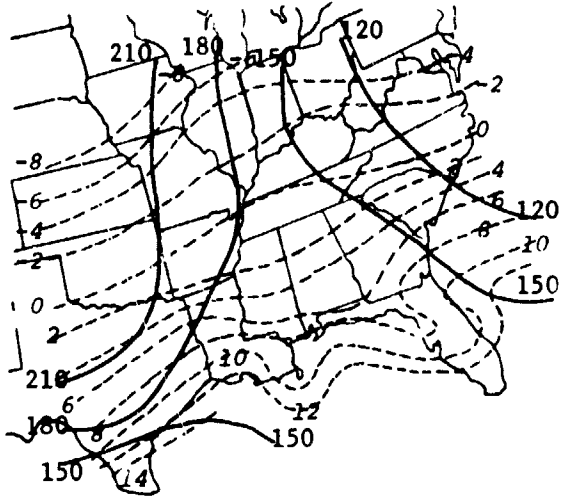


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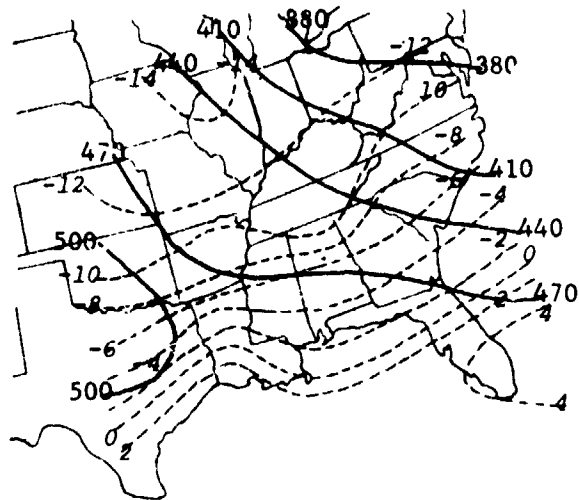


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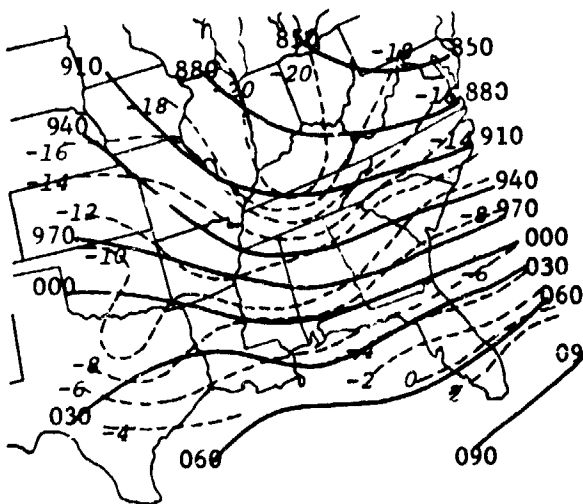
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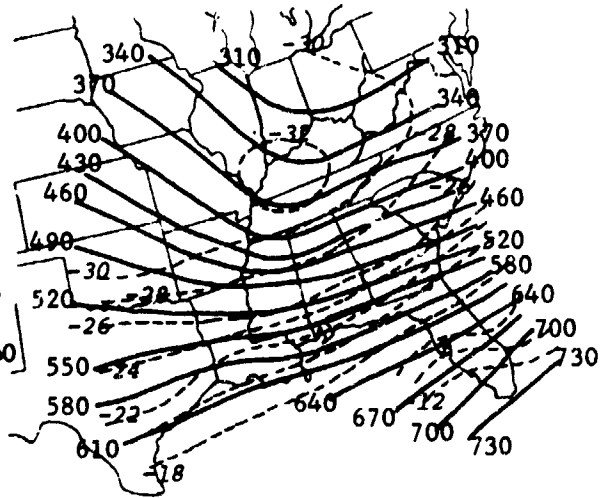
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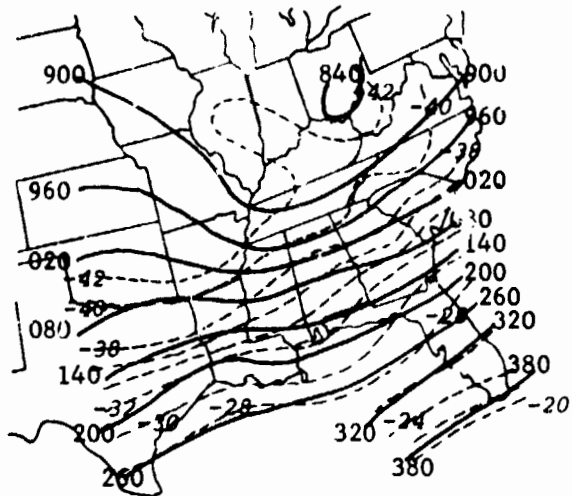


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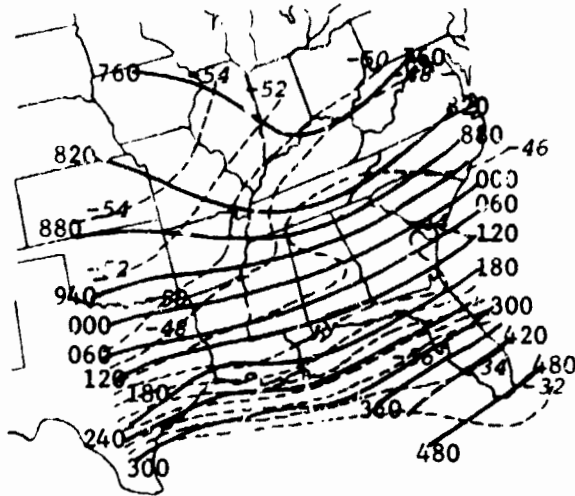


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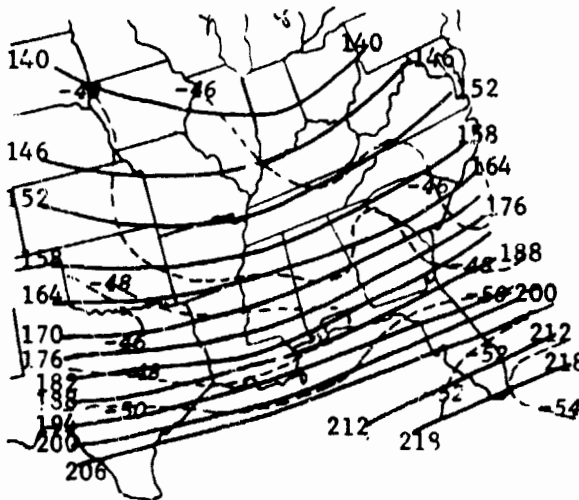
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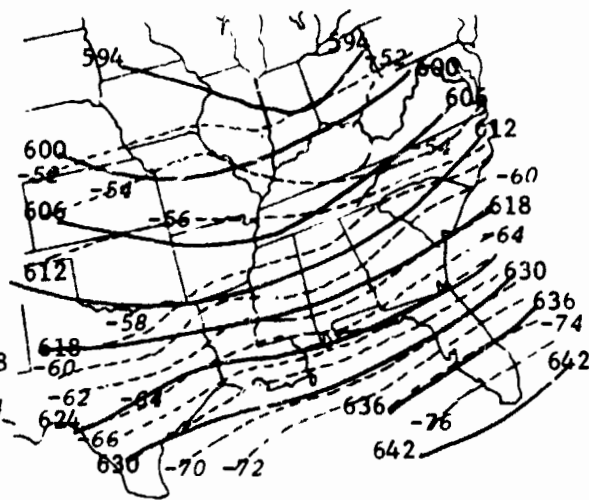
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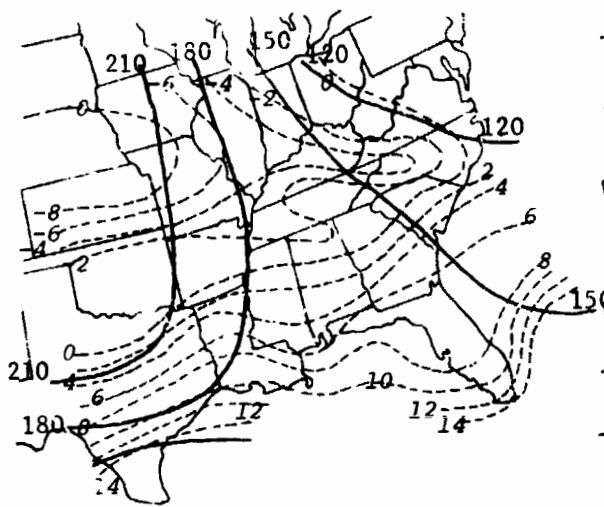


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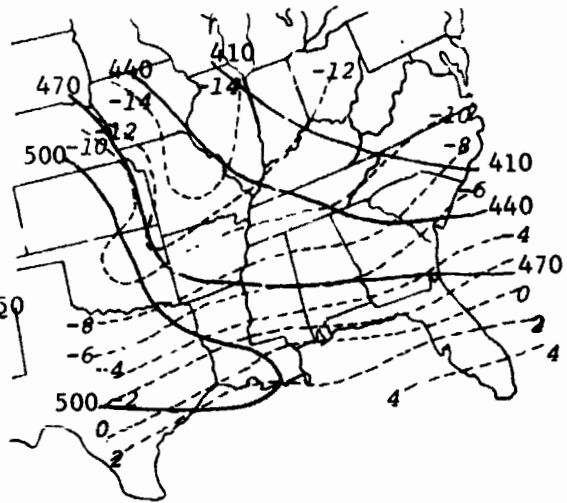


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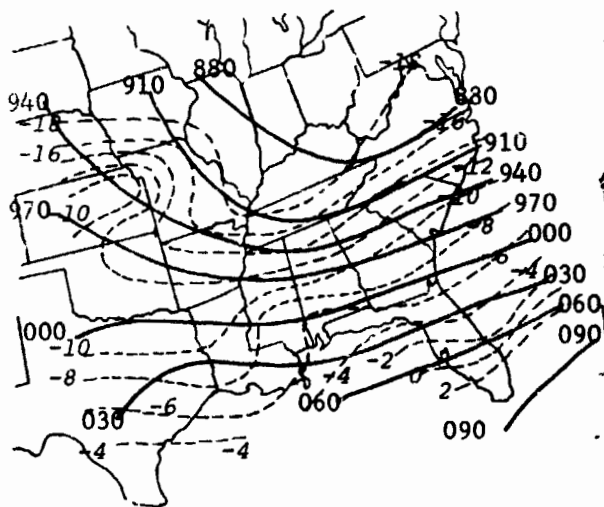
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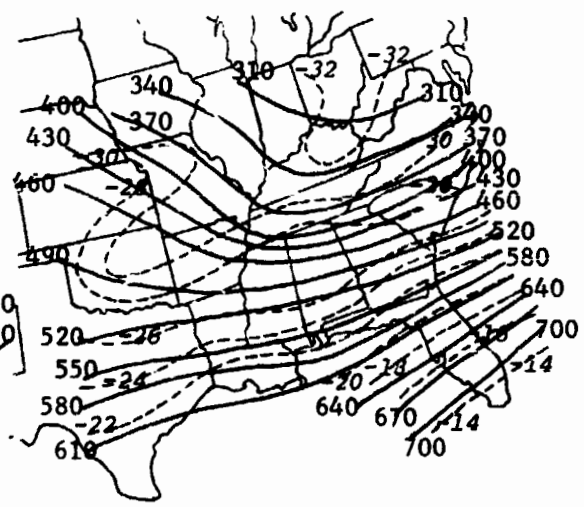
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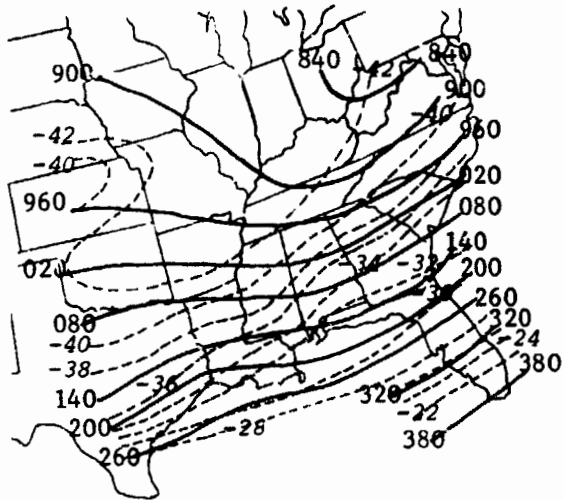


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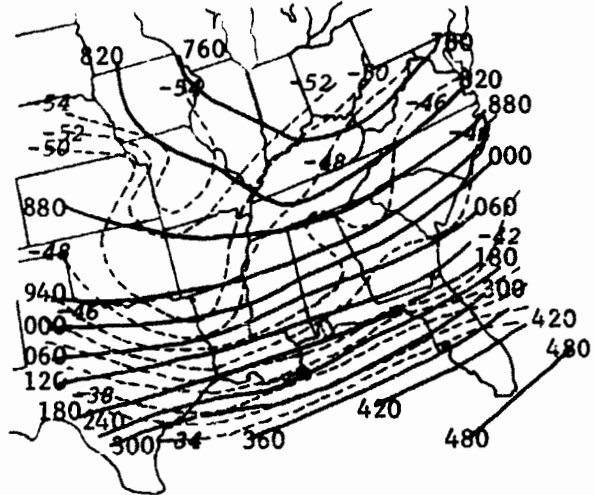


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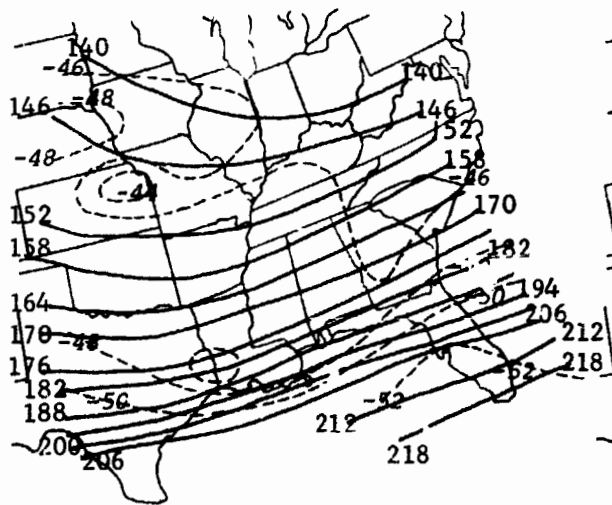
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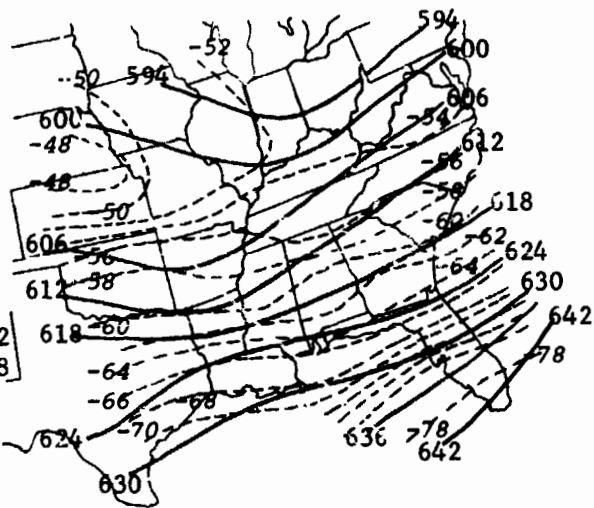
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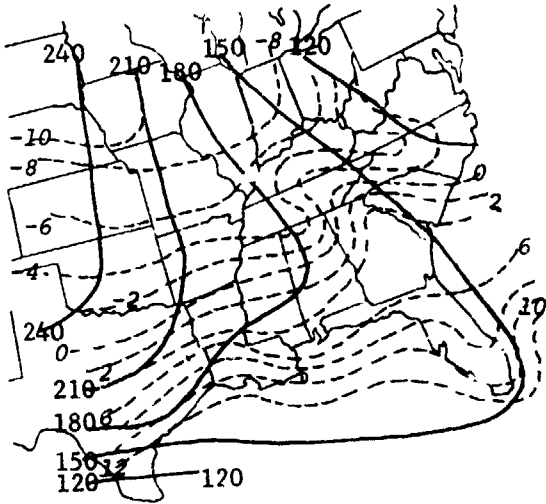


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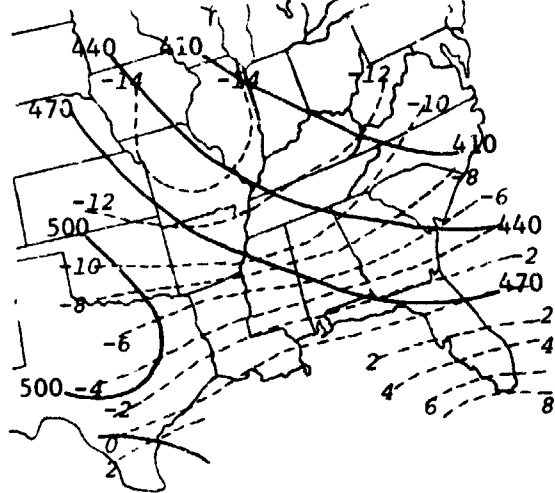


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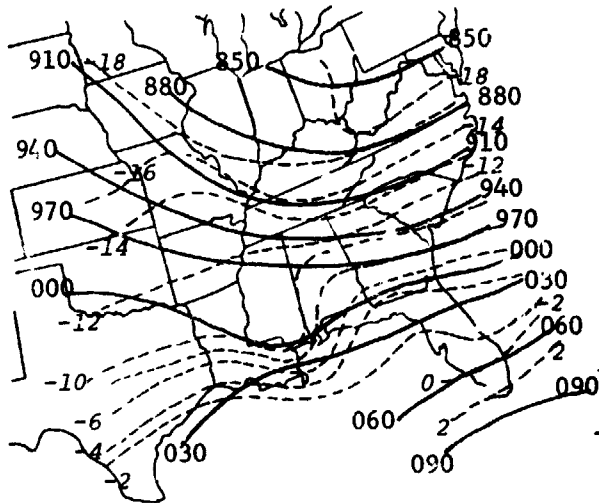
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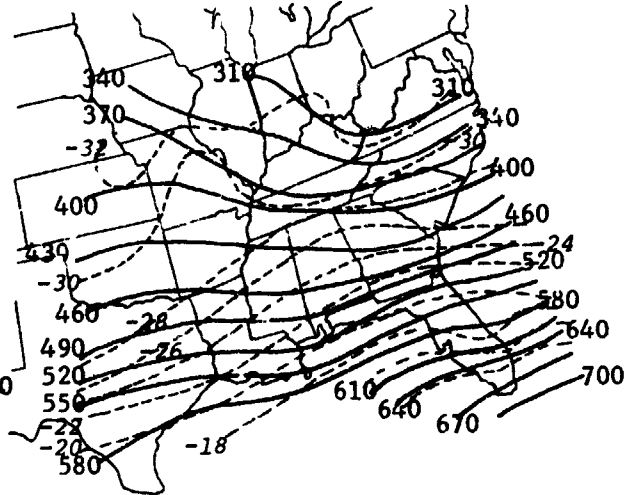
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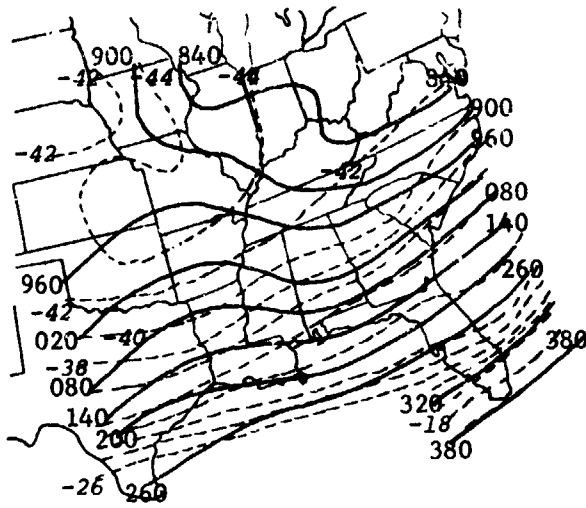


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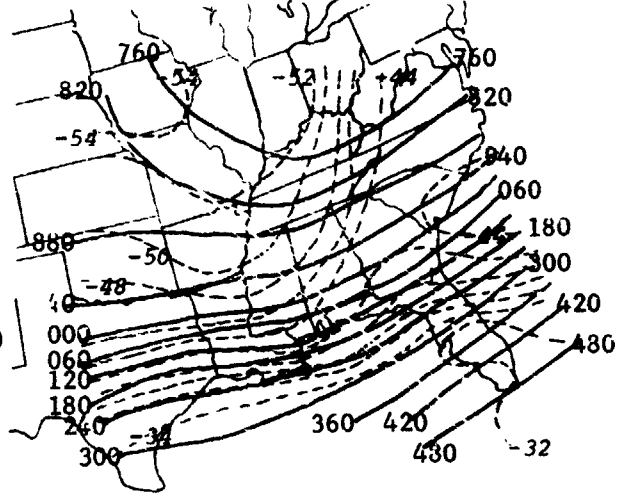


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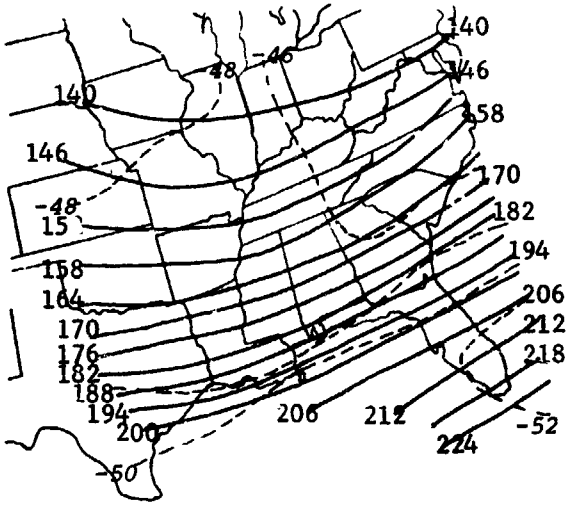
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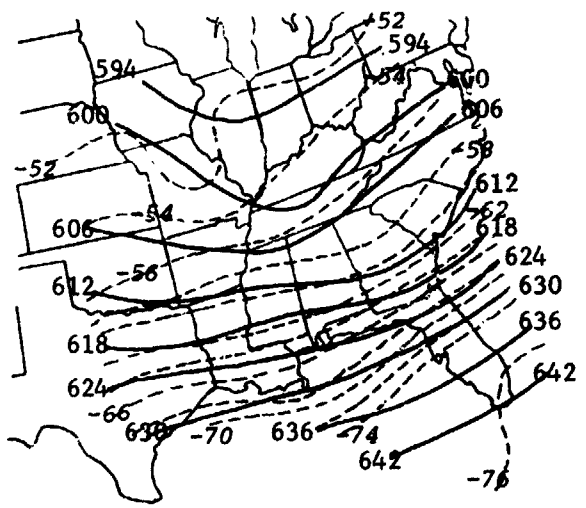
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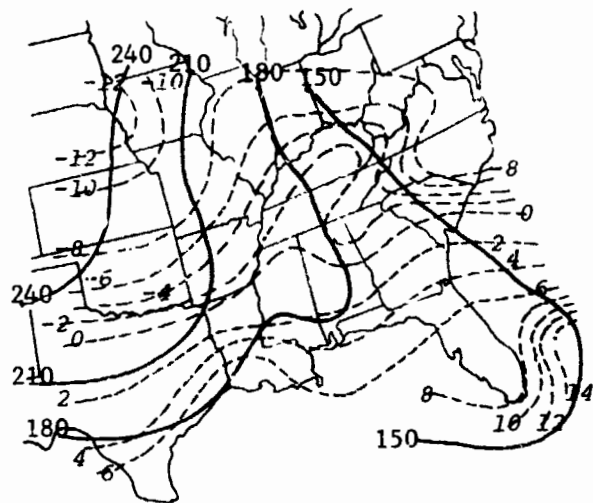


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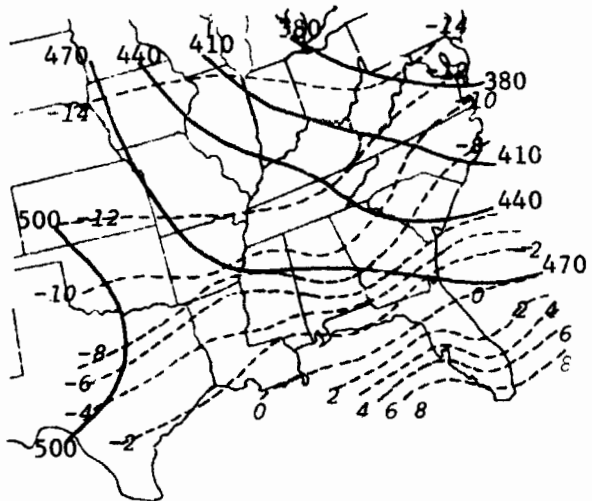


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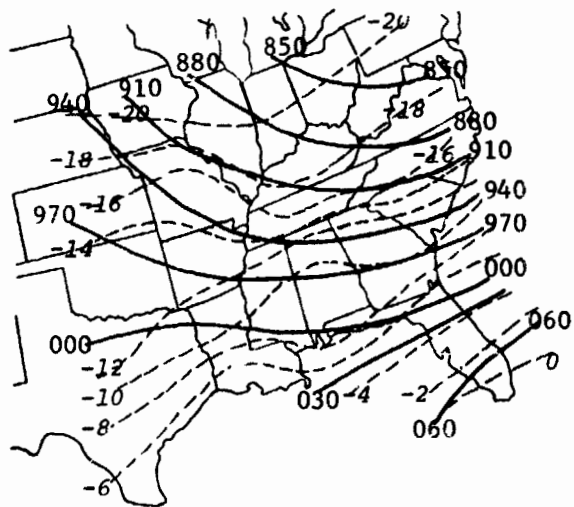
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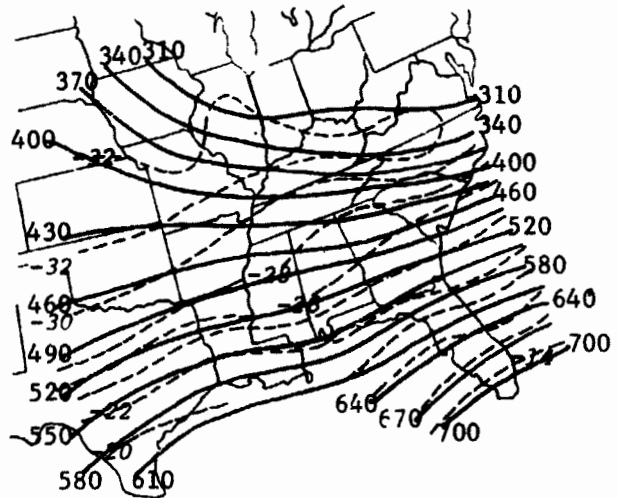
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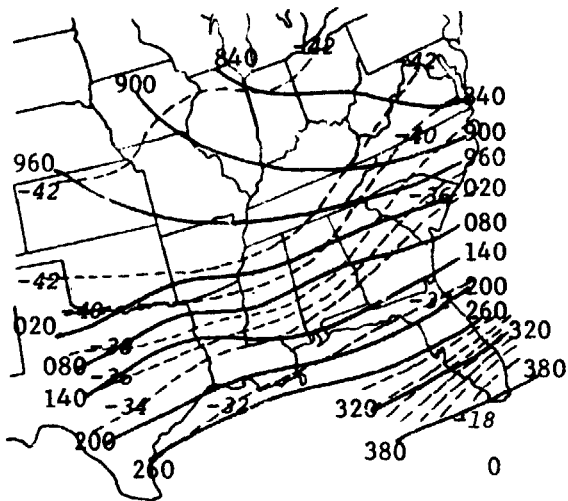


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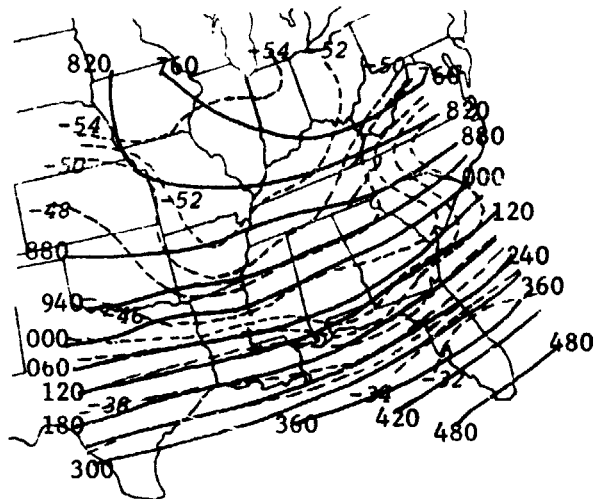


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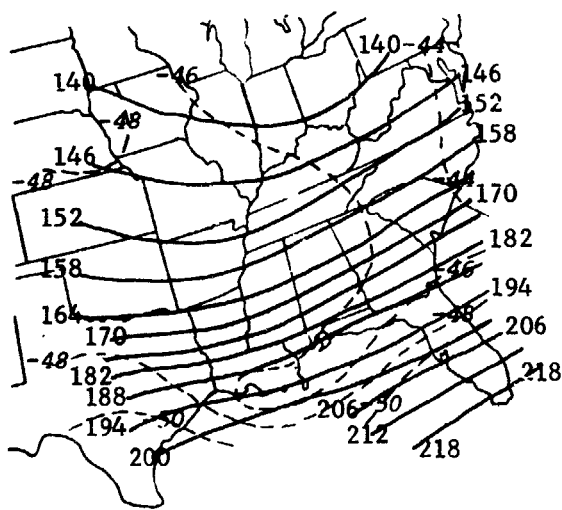
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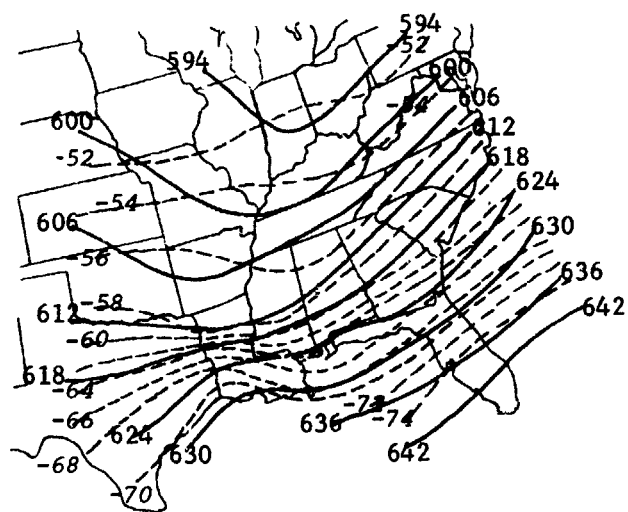
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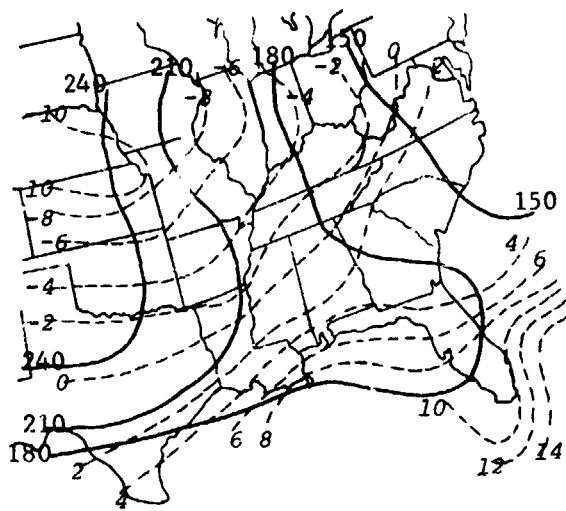


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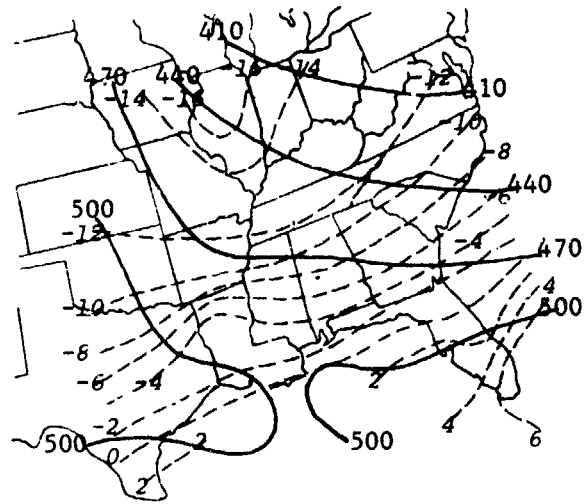


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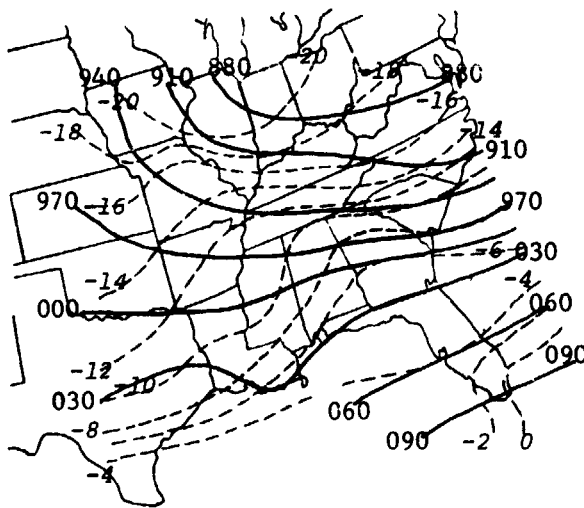
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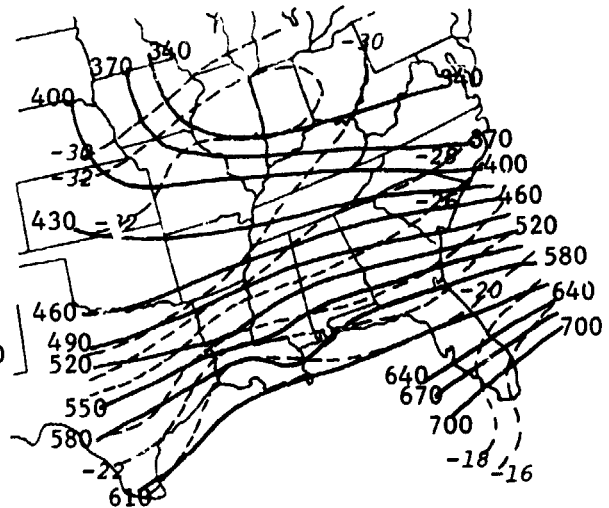
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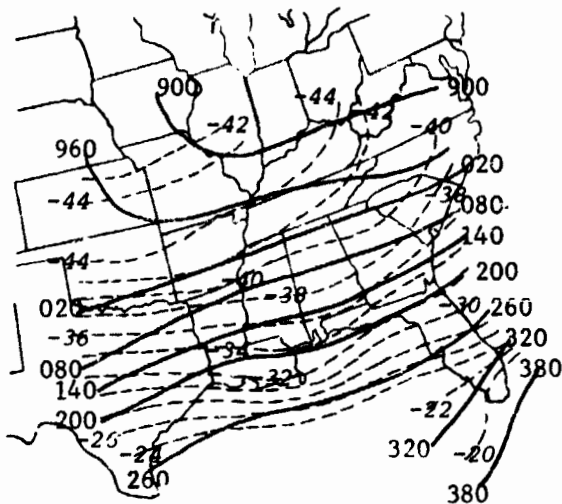


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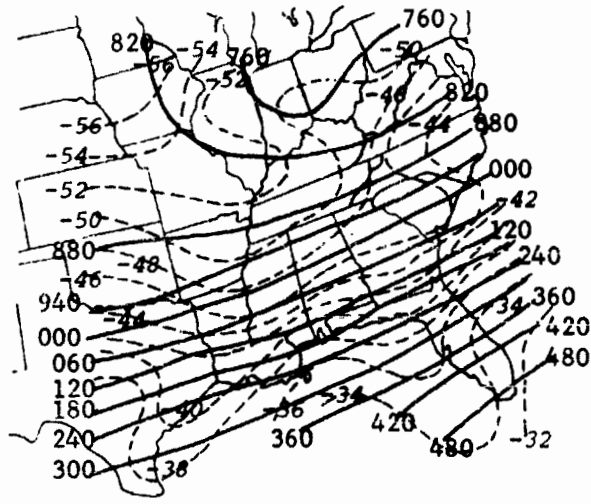


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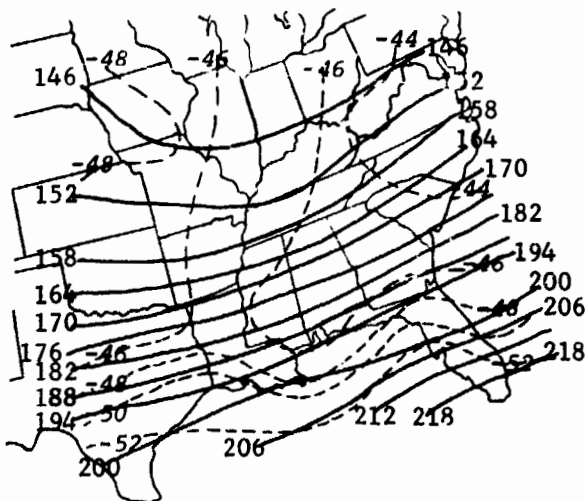
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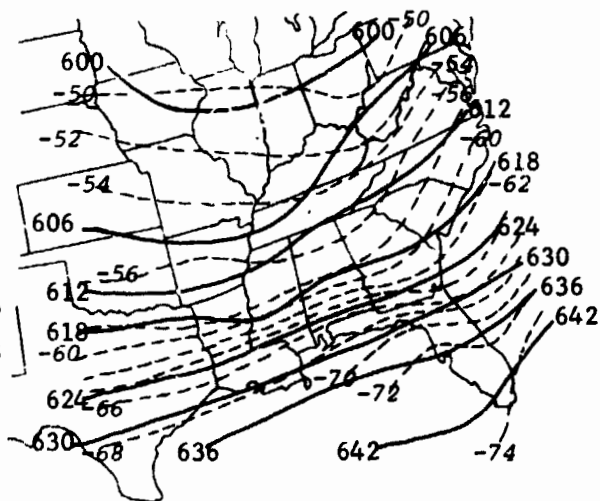
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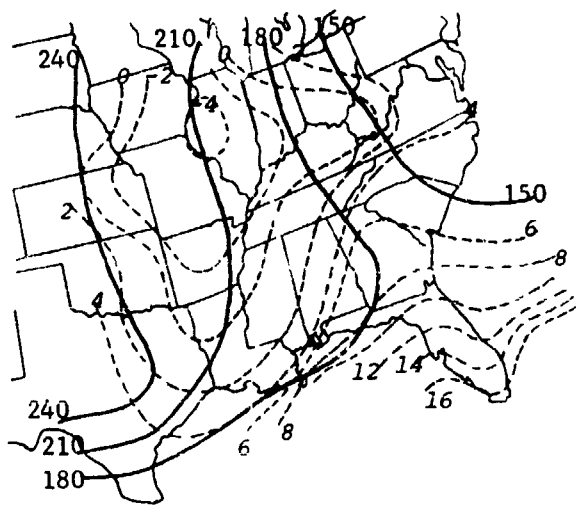


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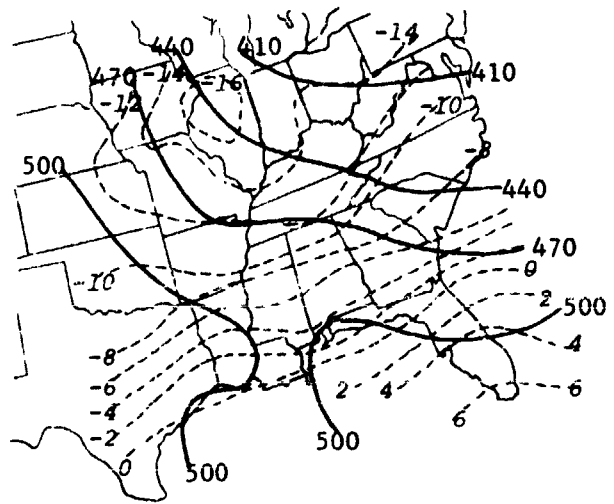


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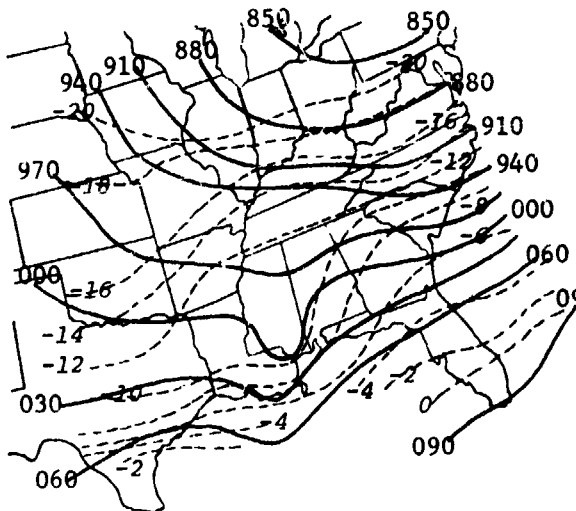
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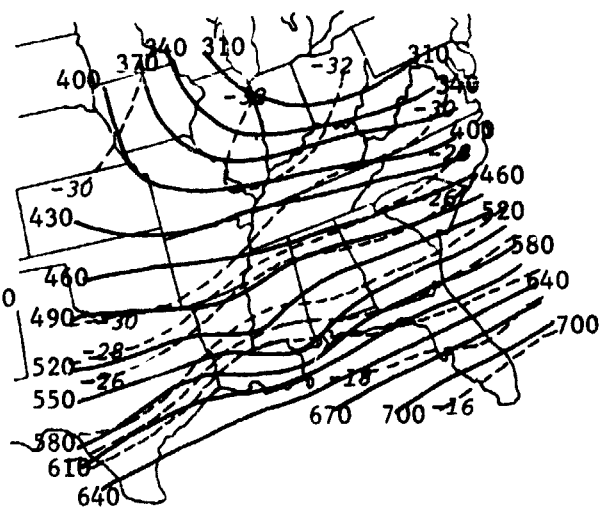
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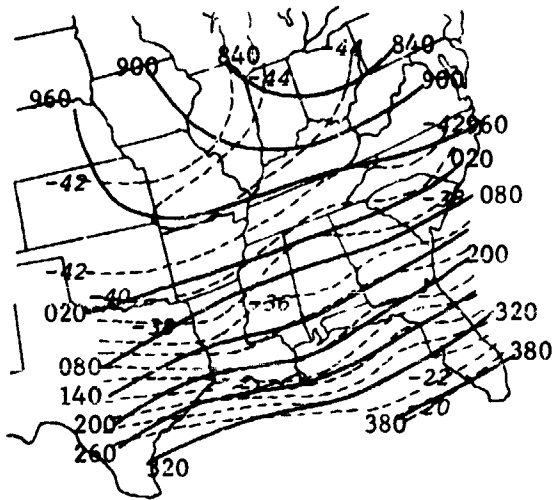


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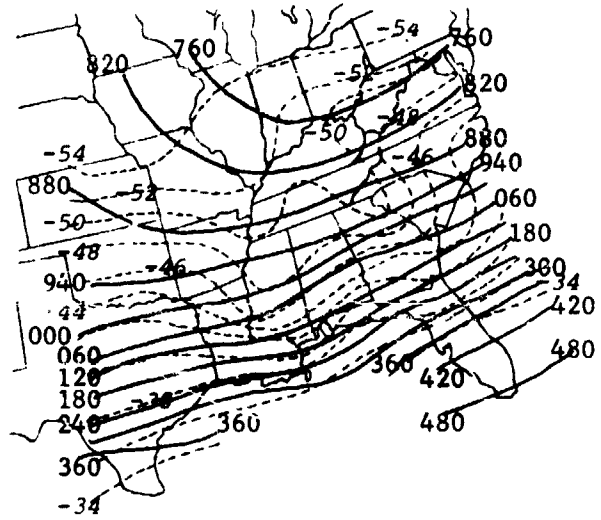


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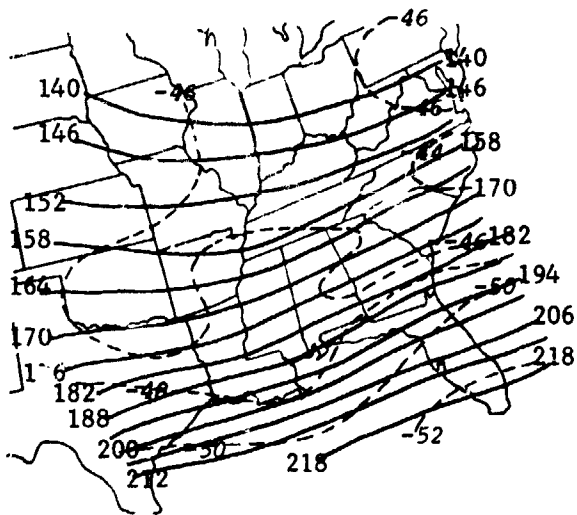
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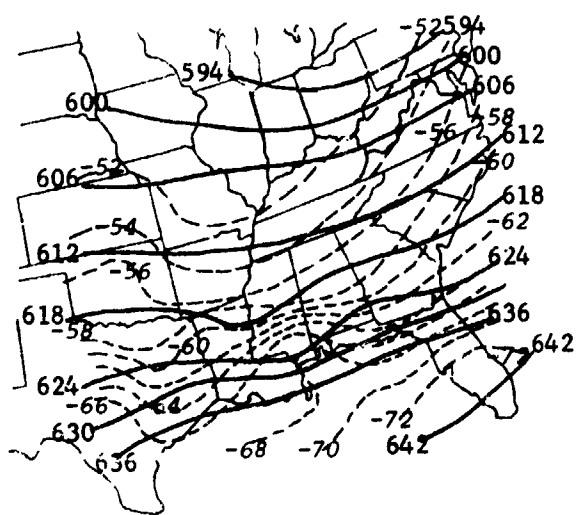
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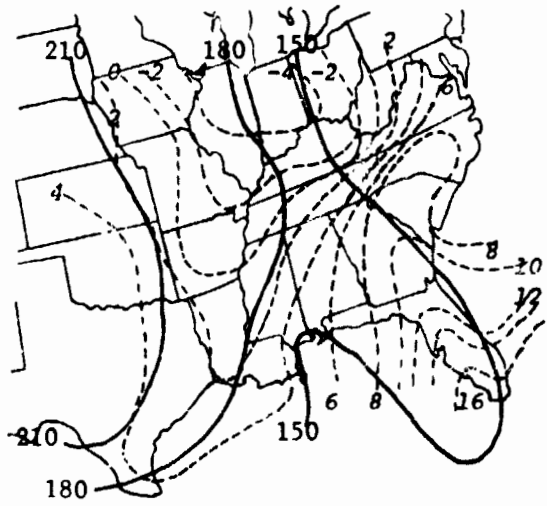


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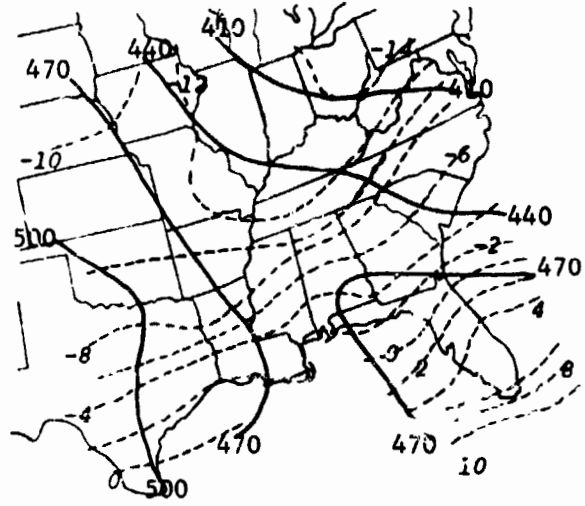


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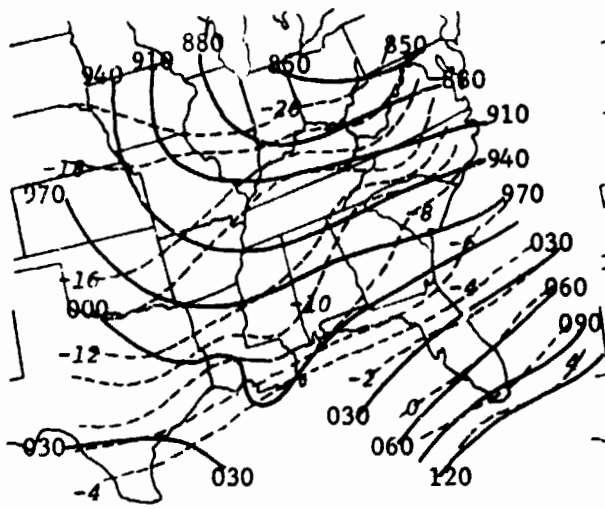
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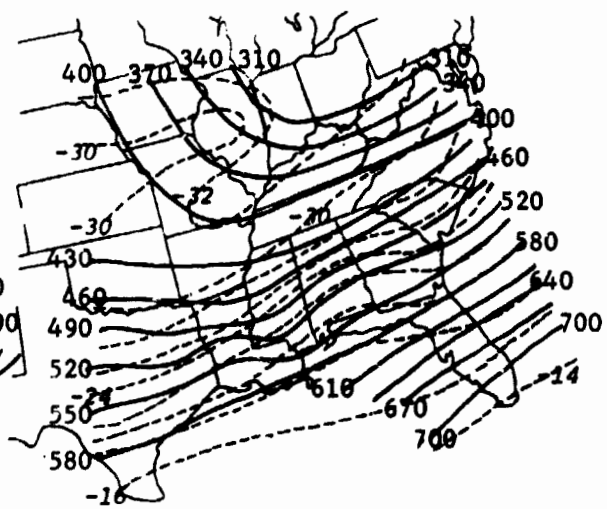
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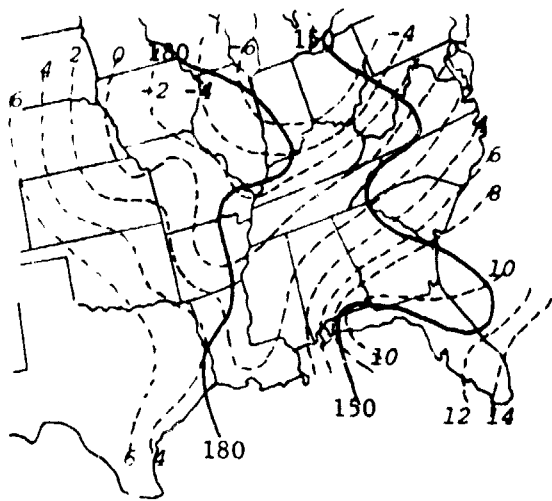


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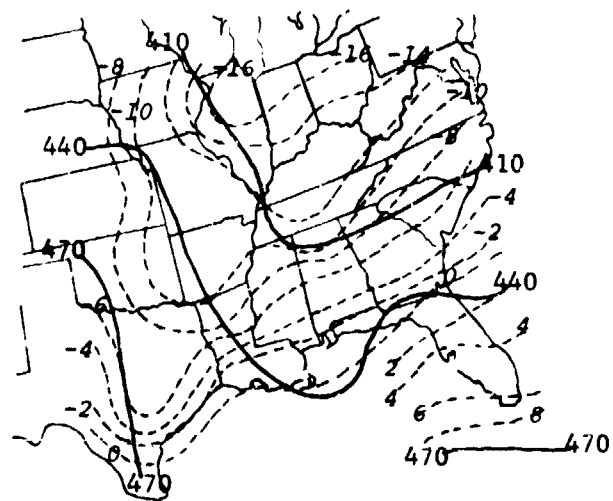


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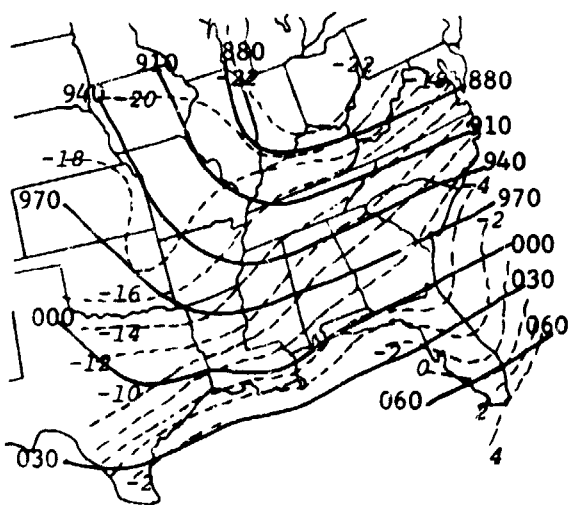
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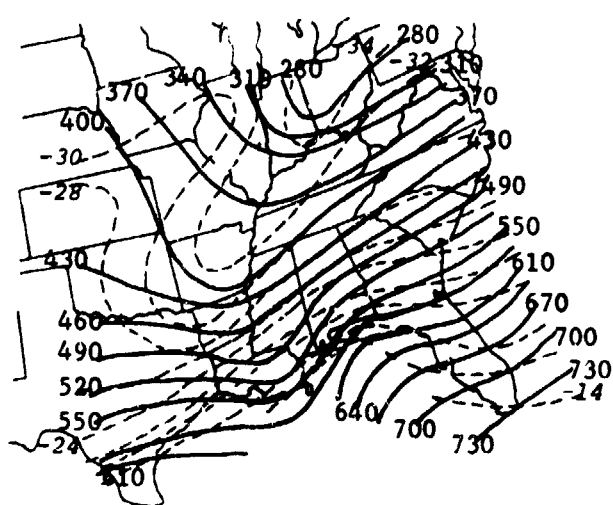
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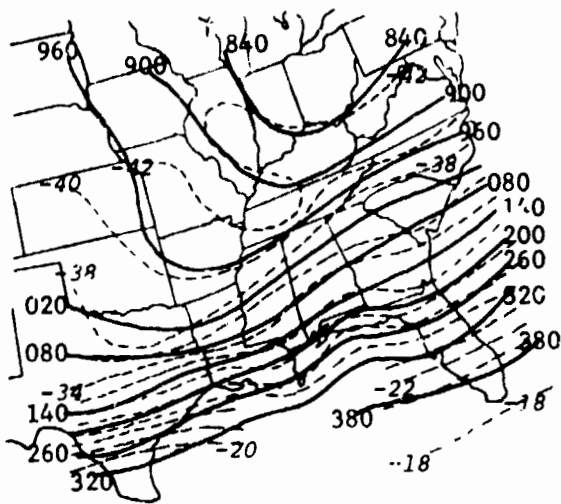


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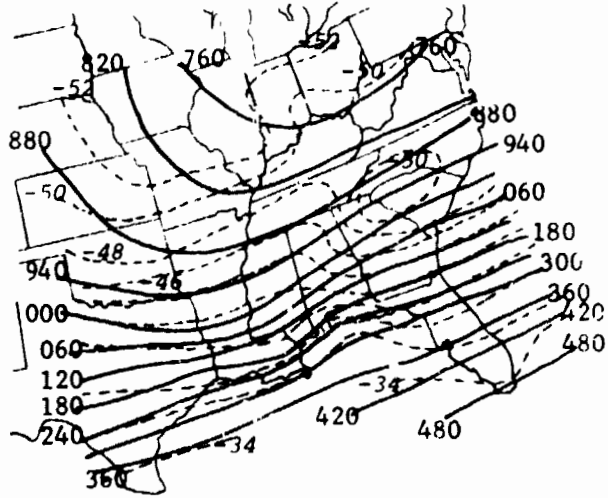


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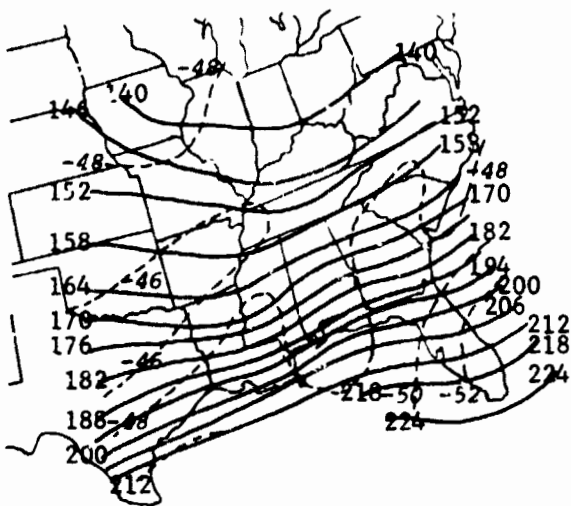
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February 22, 1964



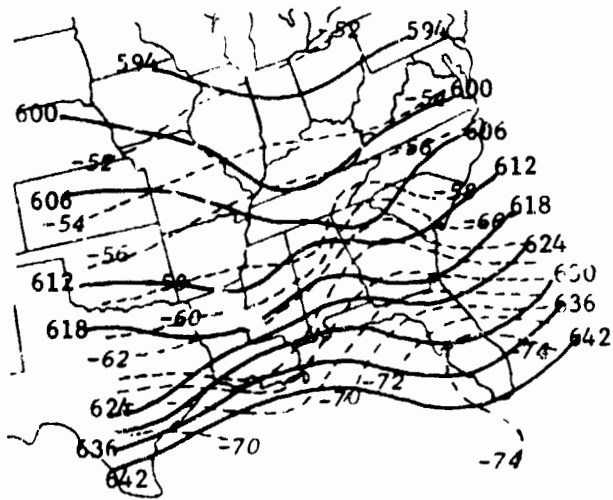
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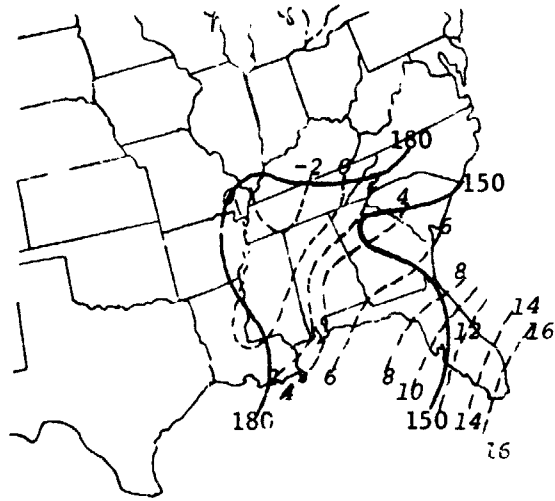


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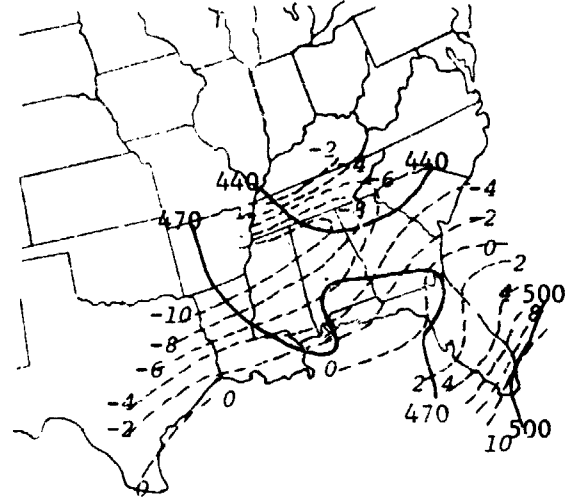


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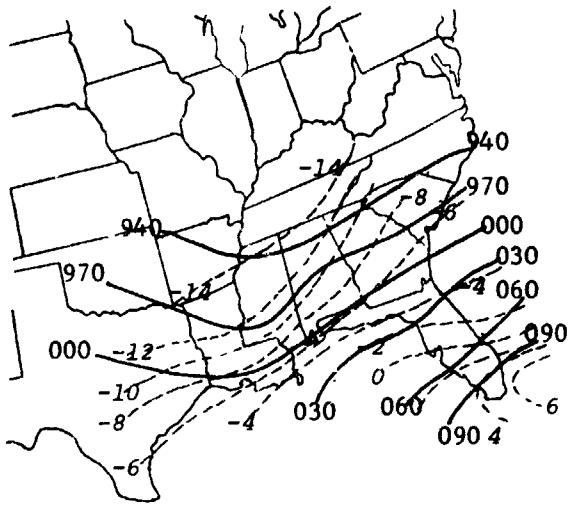
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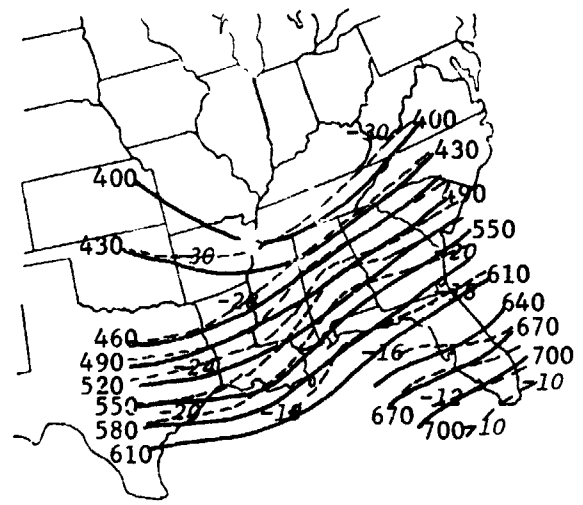
a) 1000 mb



b) 850 mb

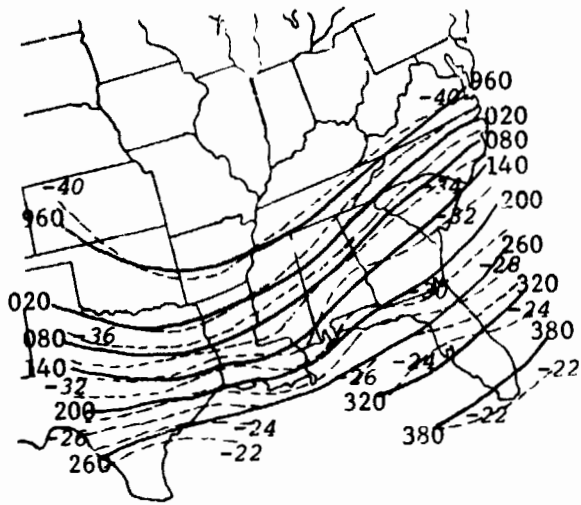


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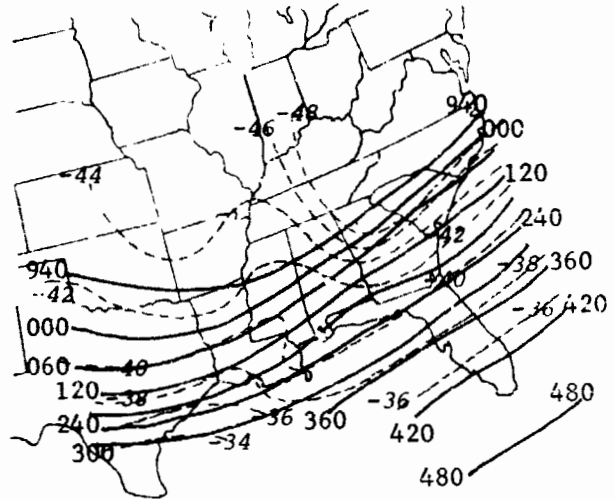


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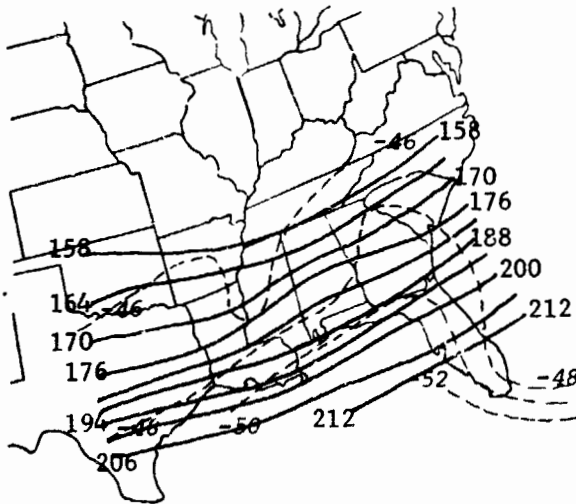
0300 GMT
February 22, 1964



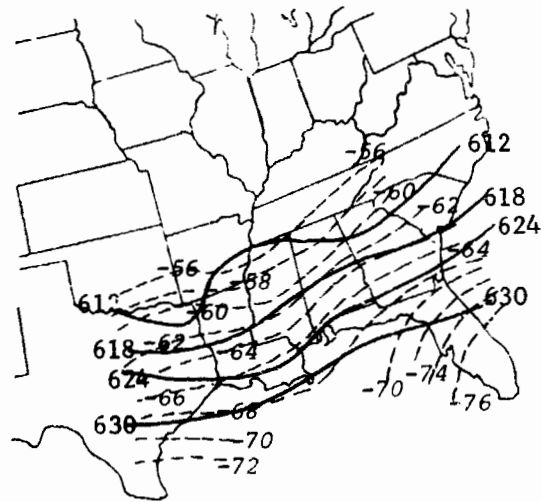
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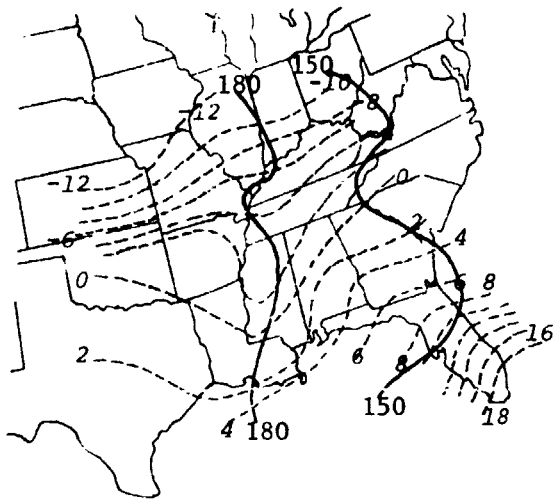


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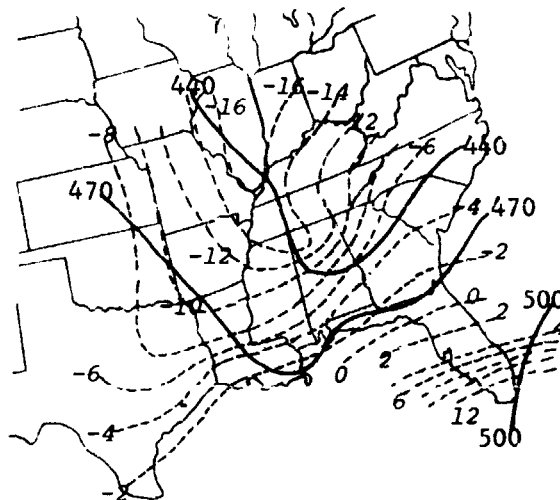


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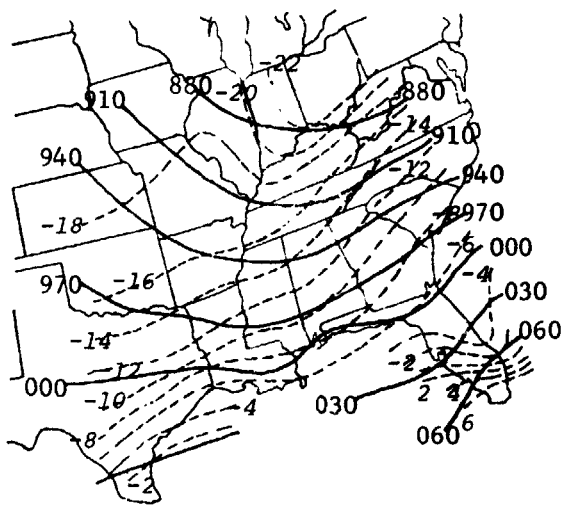
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February 22, 1964



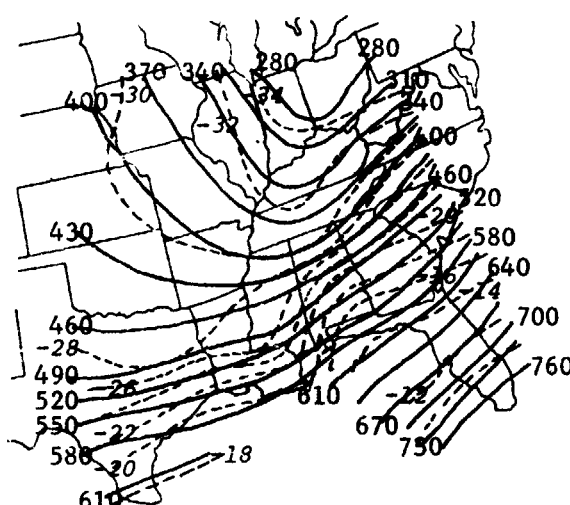
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b) 850 mb

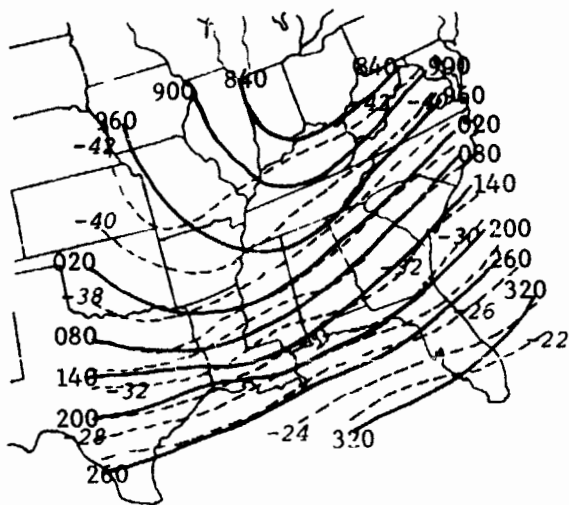


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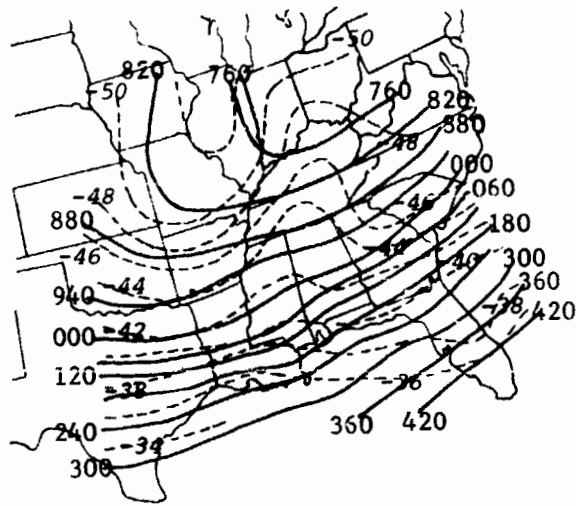


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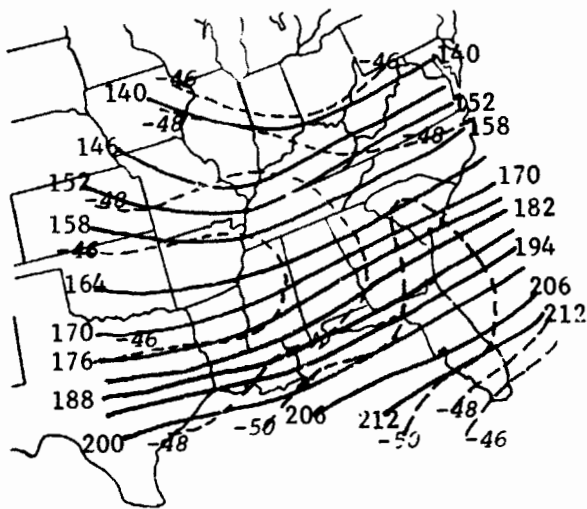
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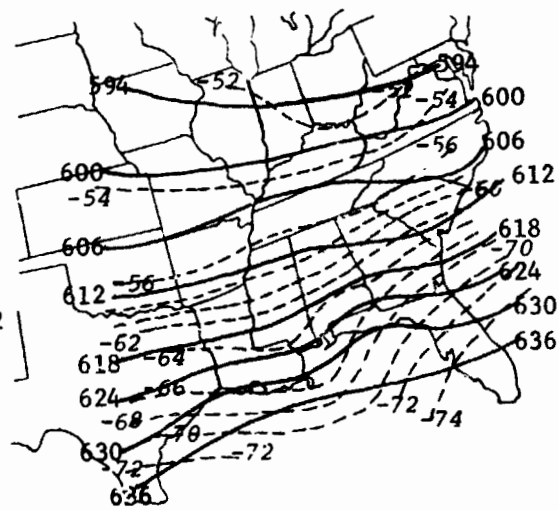
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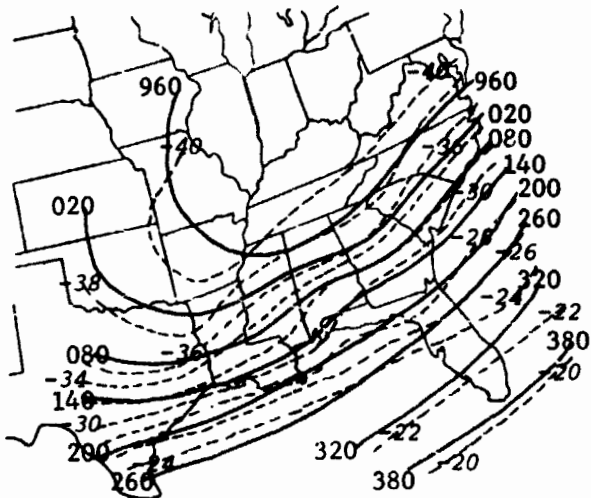


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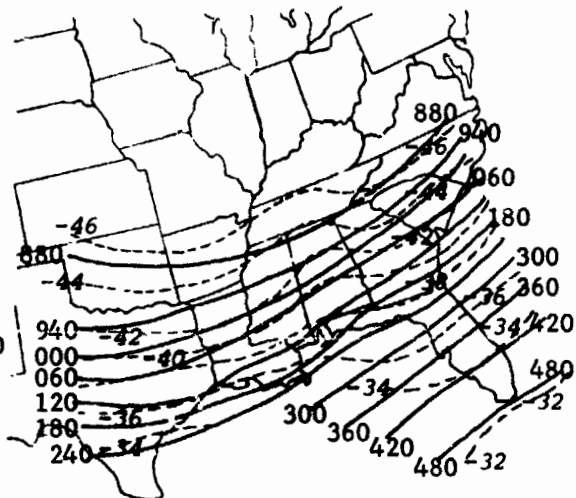


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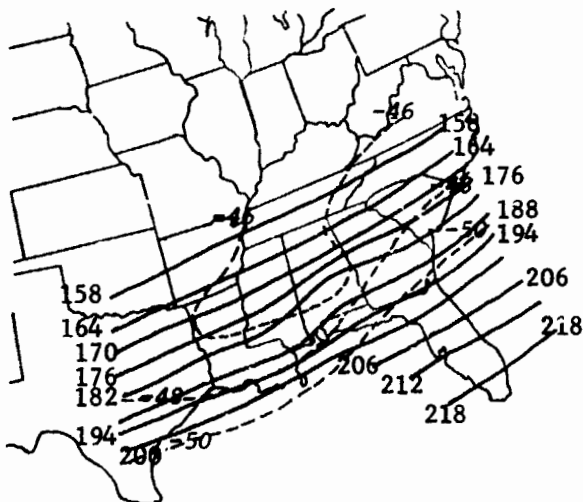
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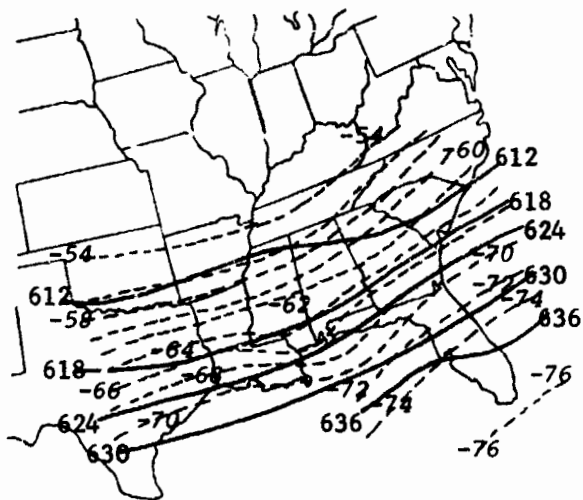
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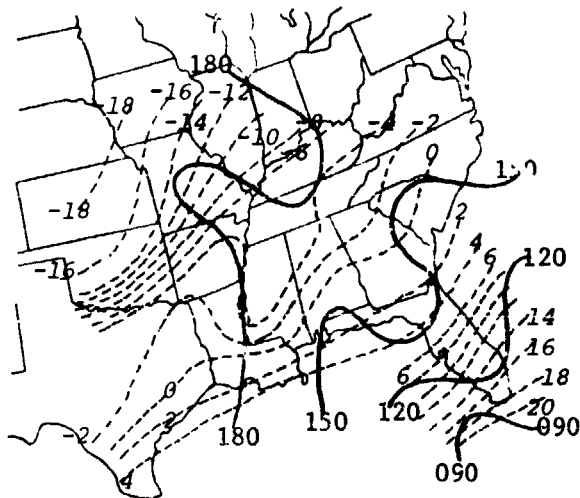


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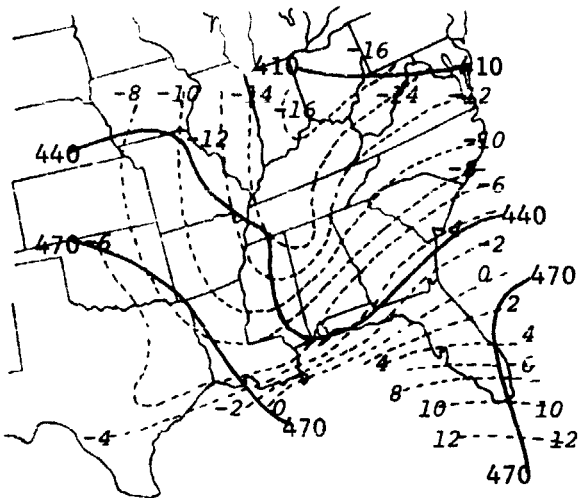


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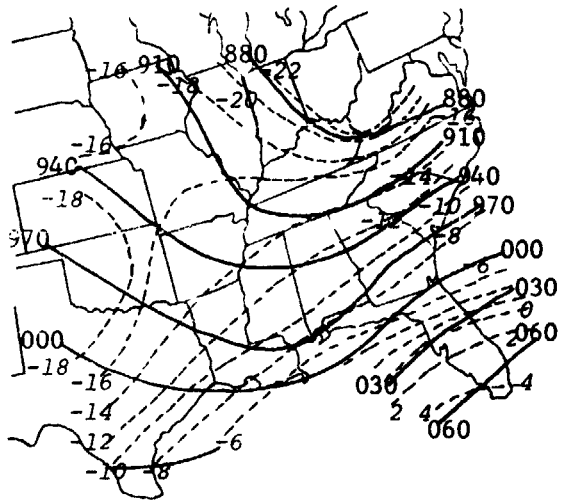
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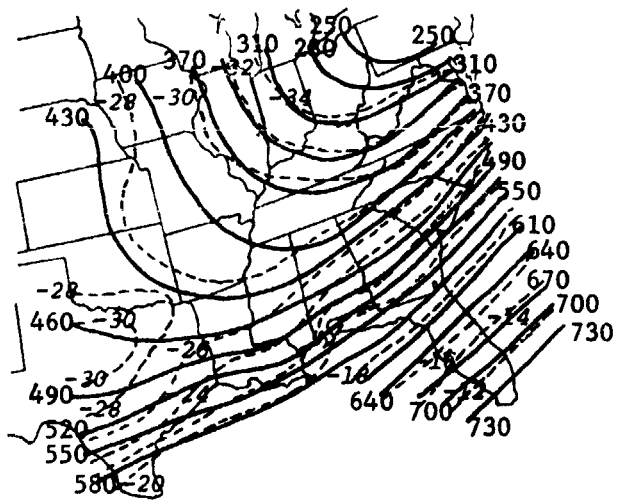
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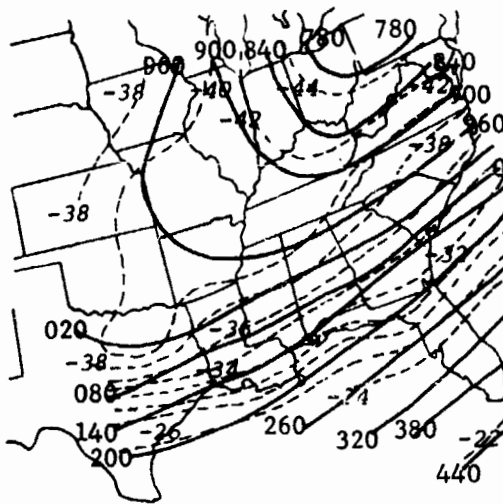


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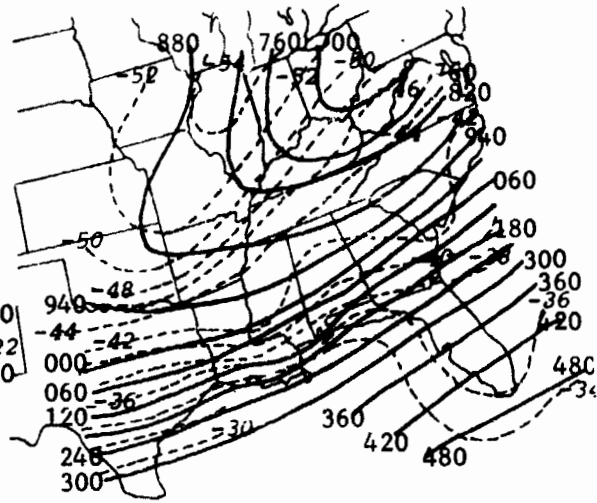


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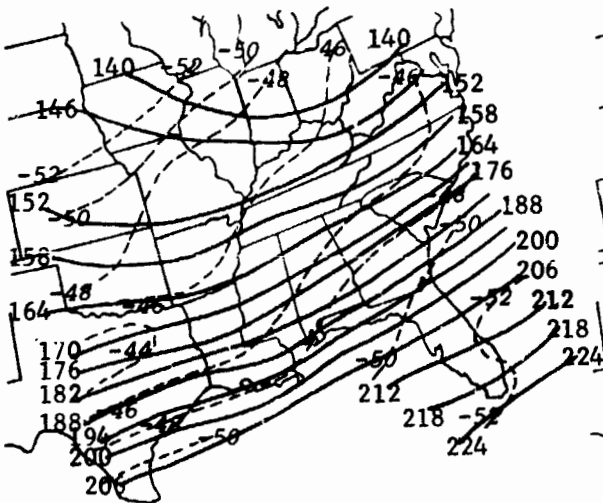
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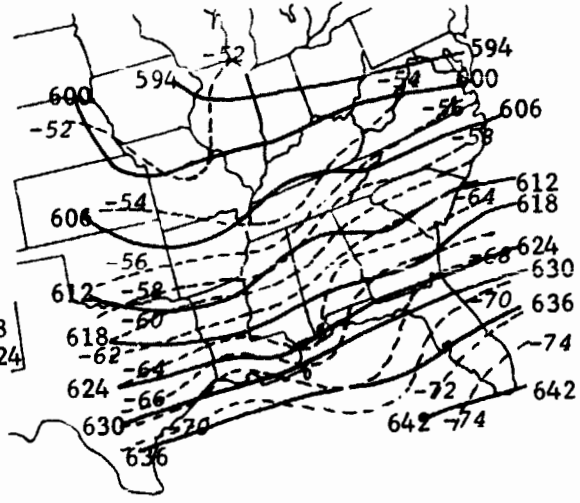
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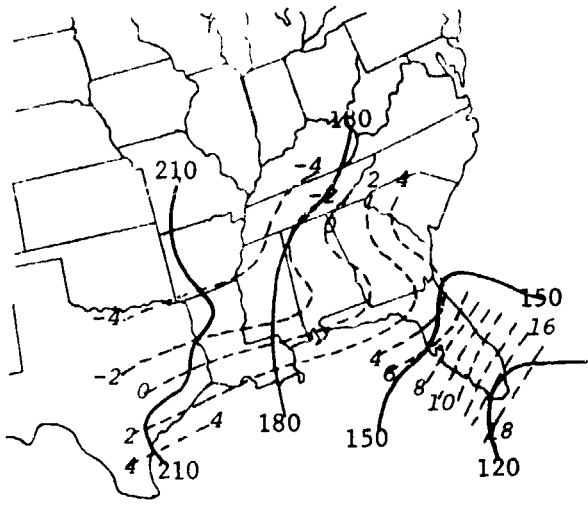


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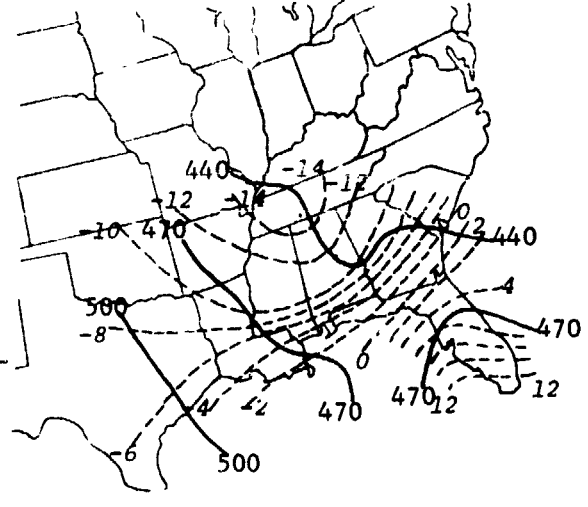


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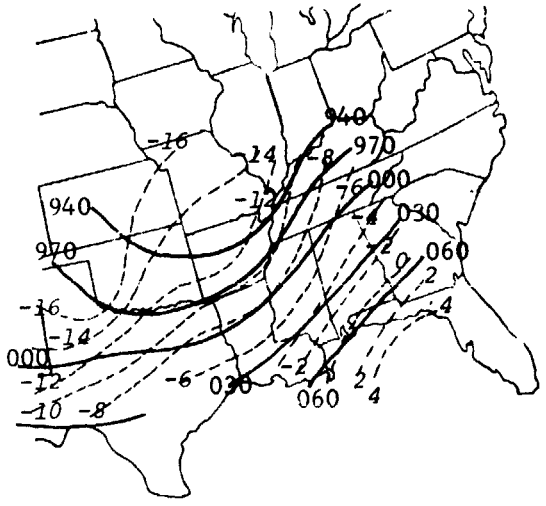
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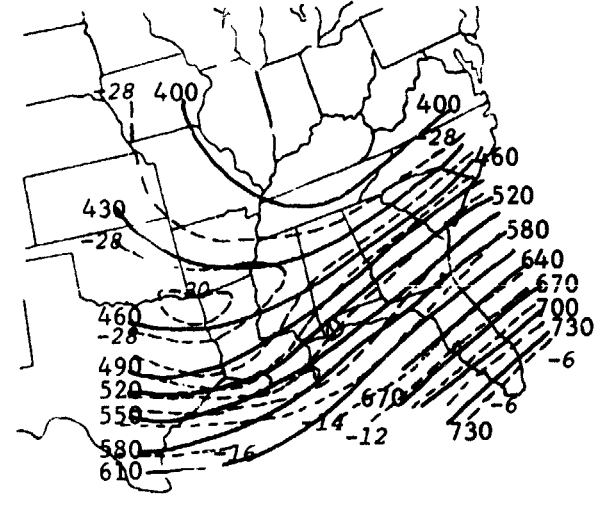
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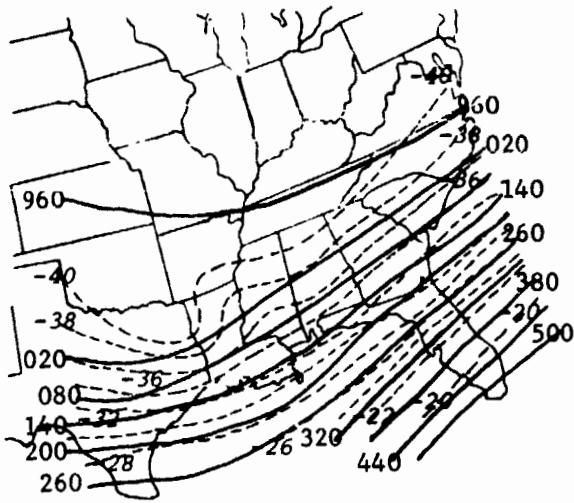


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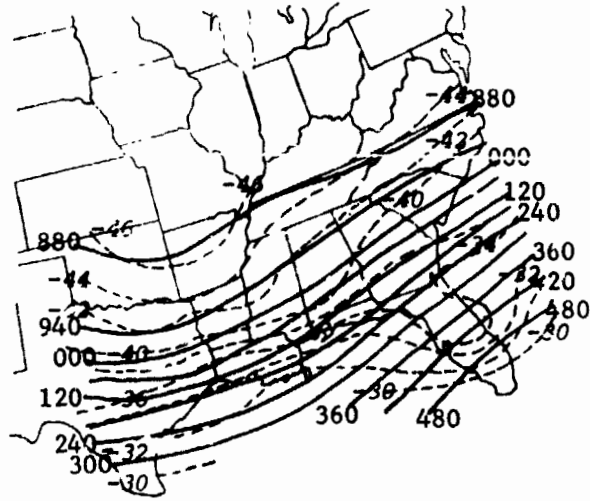


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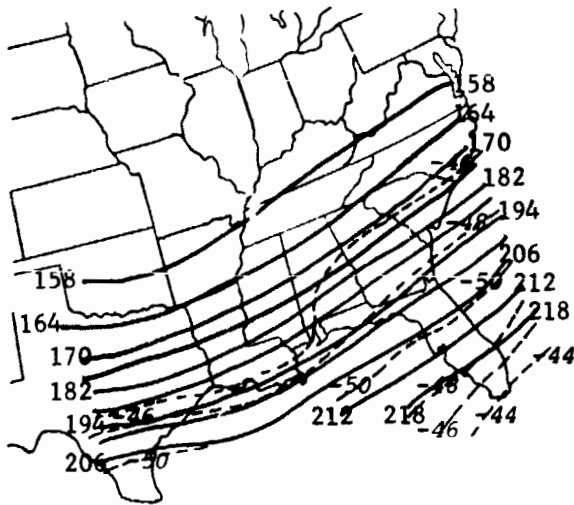
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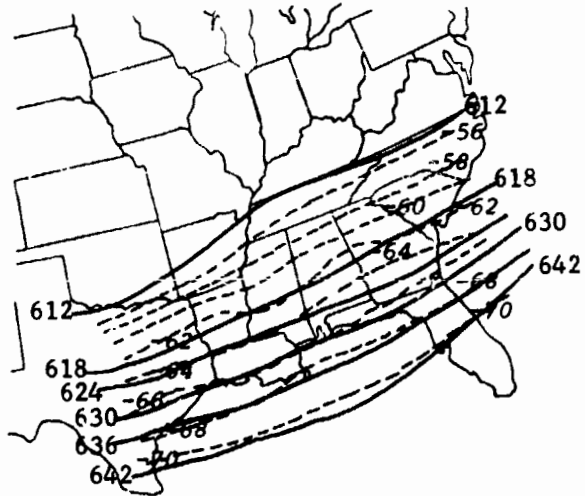
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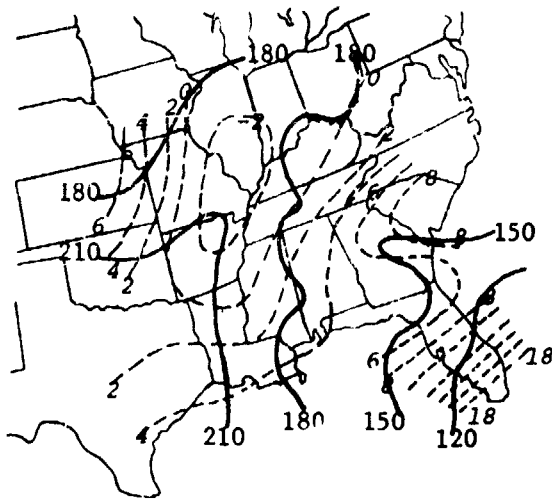


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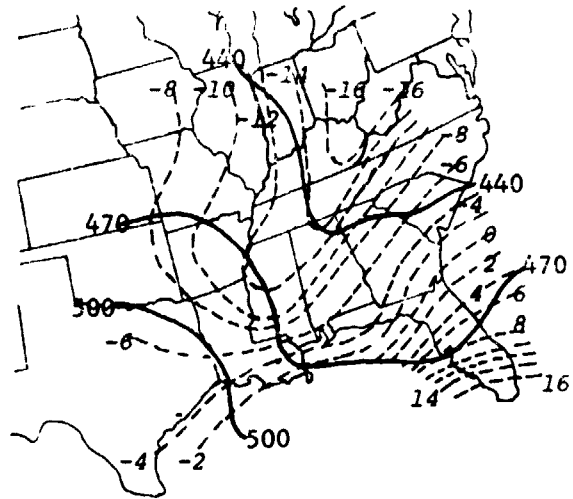


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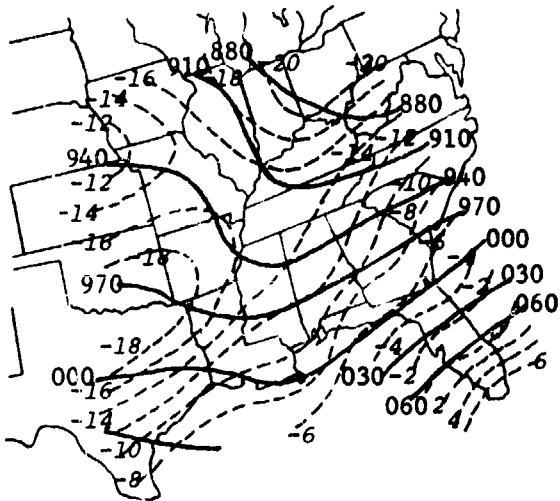
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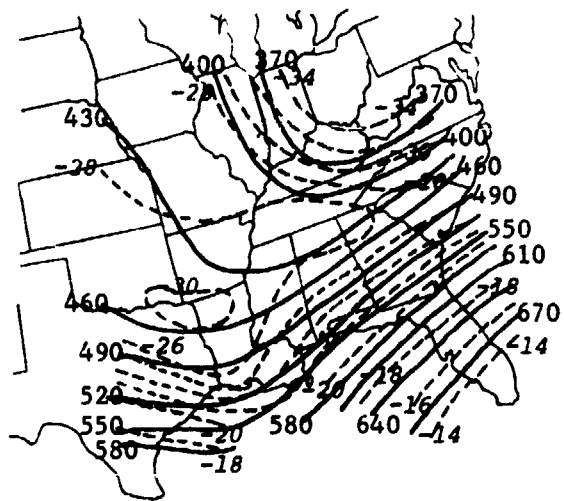
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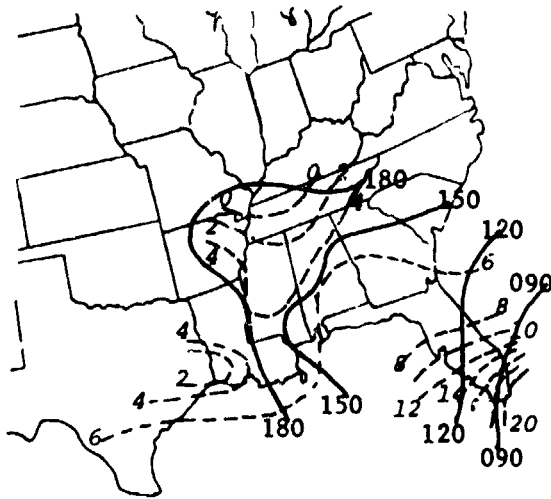


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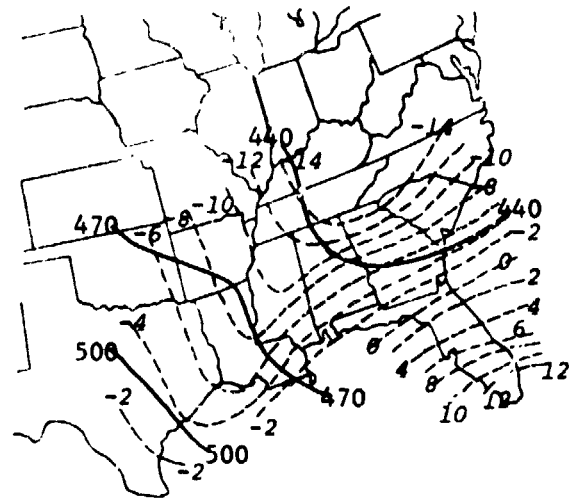


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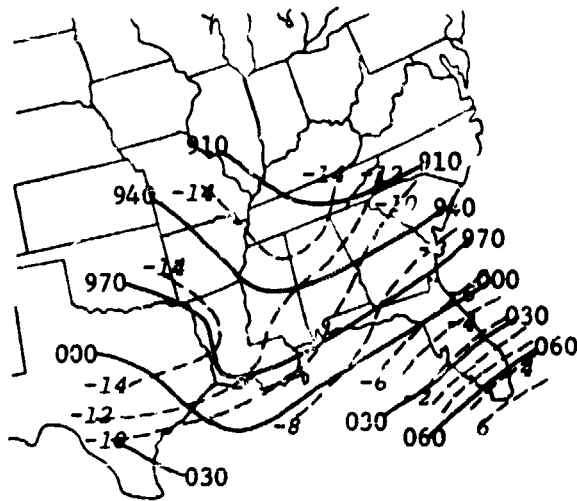
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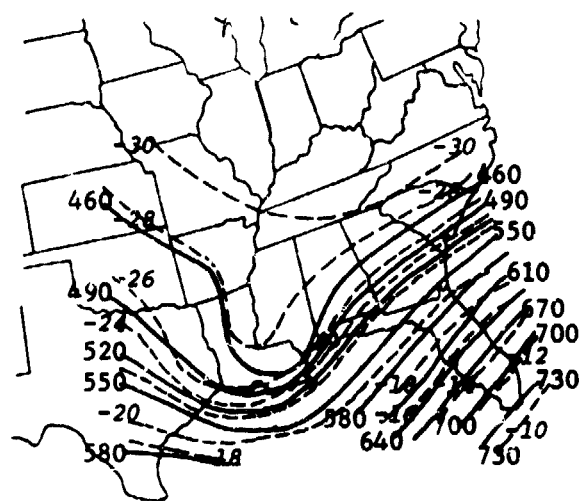
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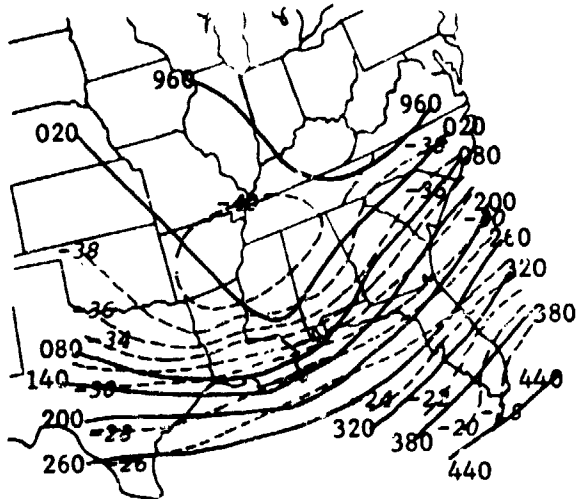


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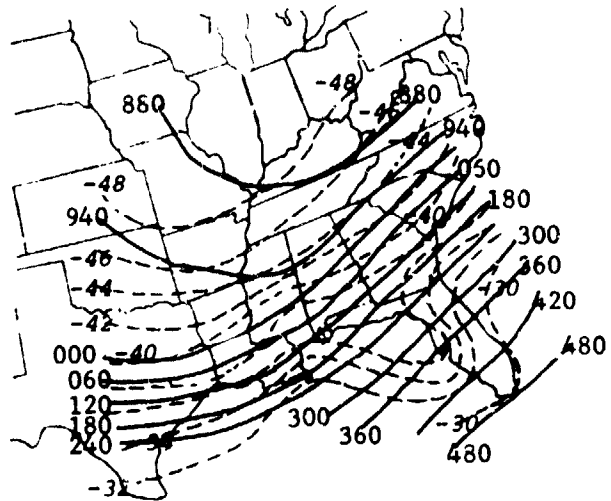


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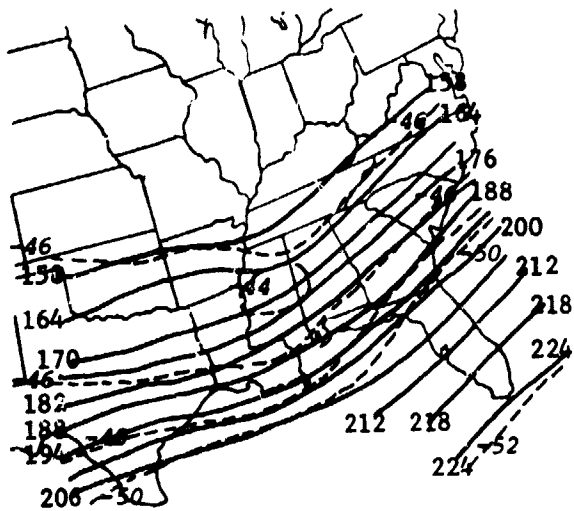
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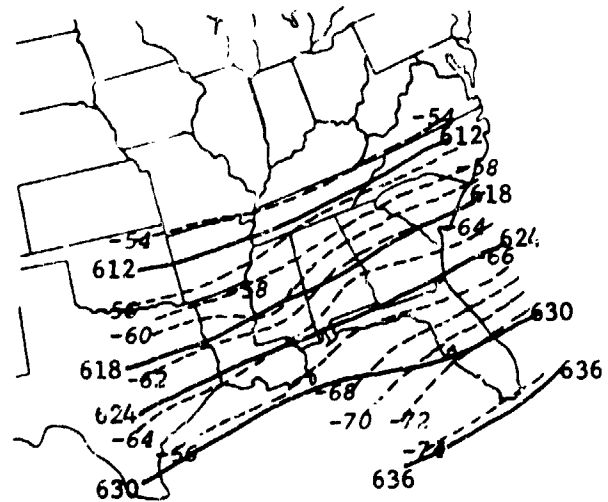
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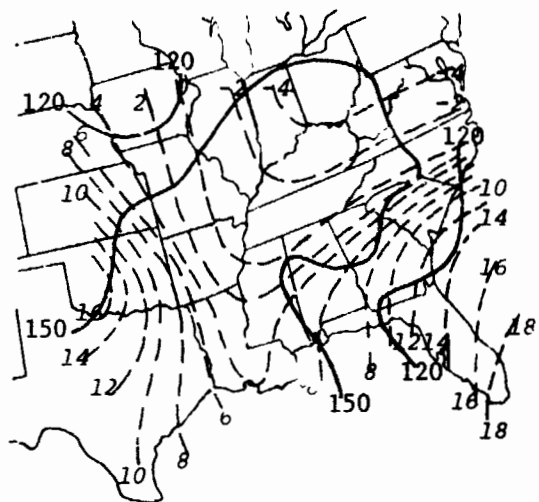


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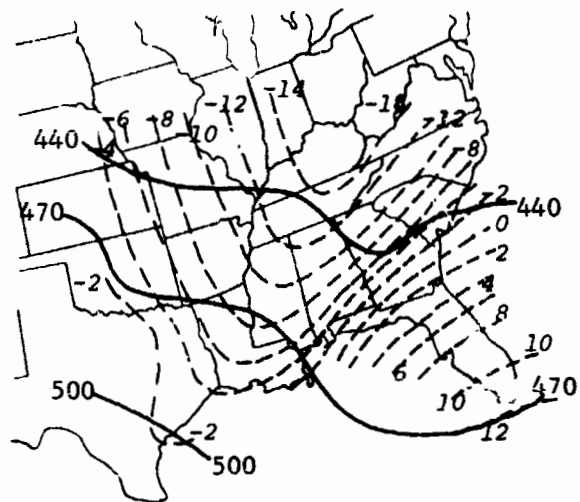


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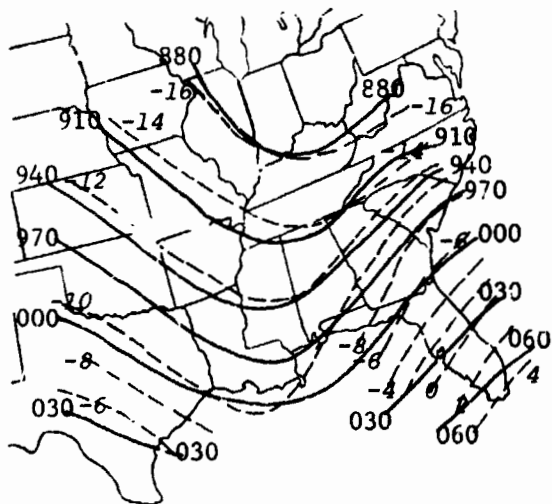
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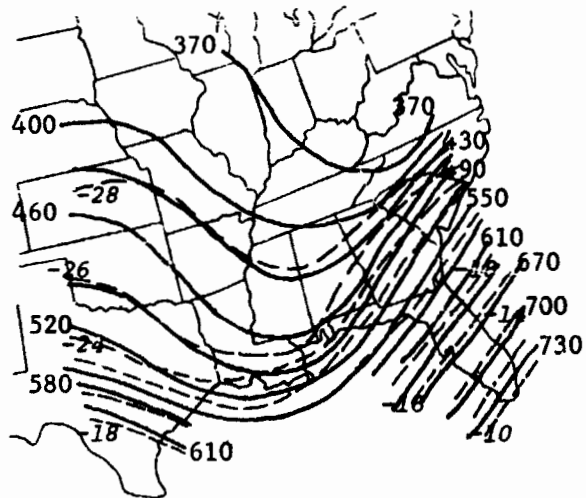
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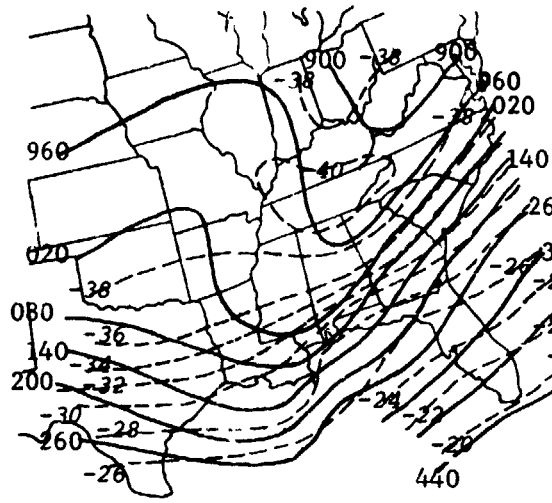


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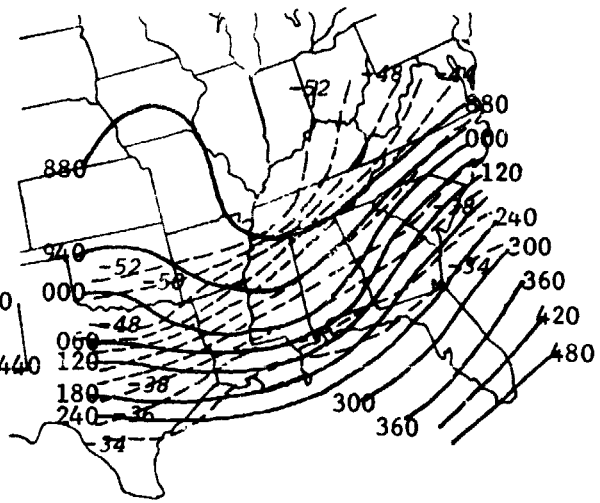


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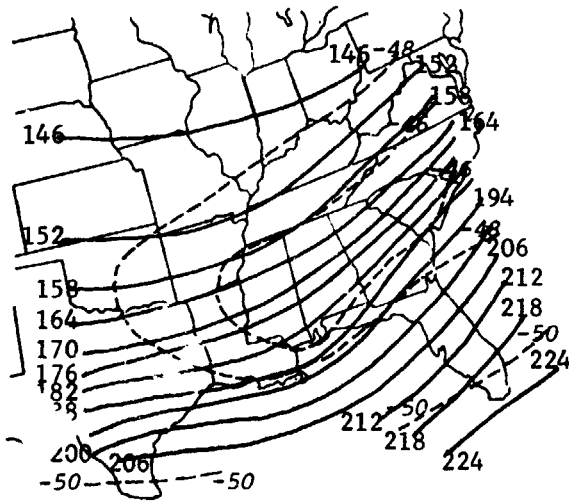
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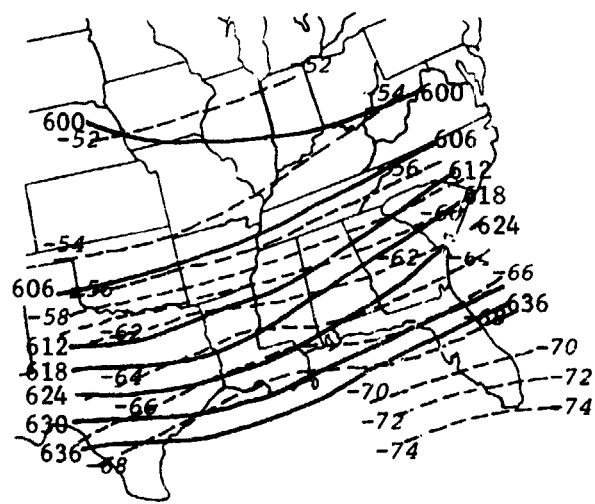
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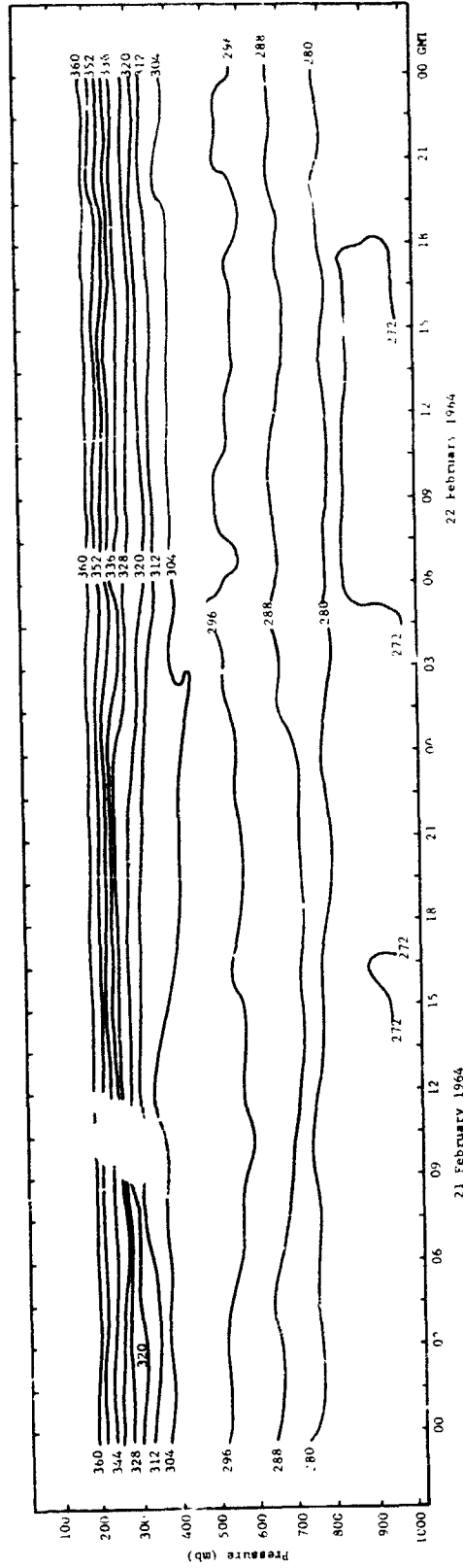
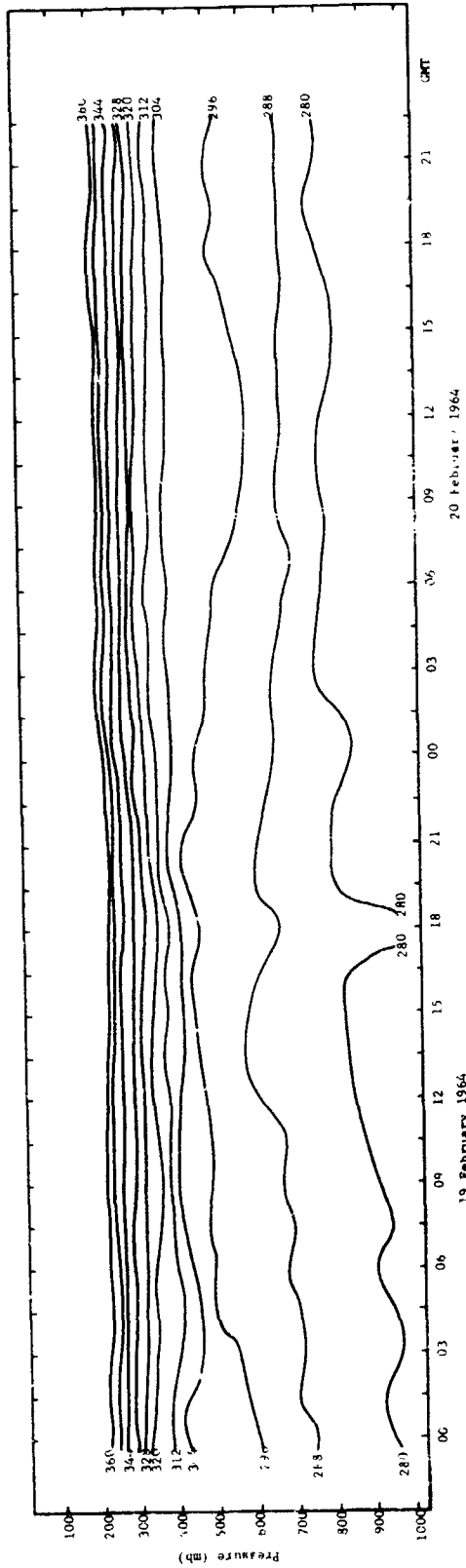
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February 23, 1964

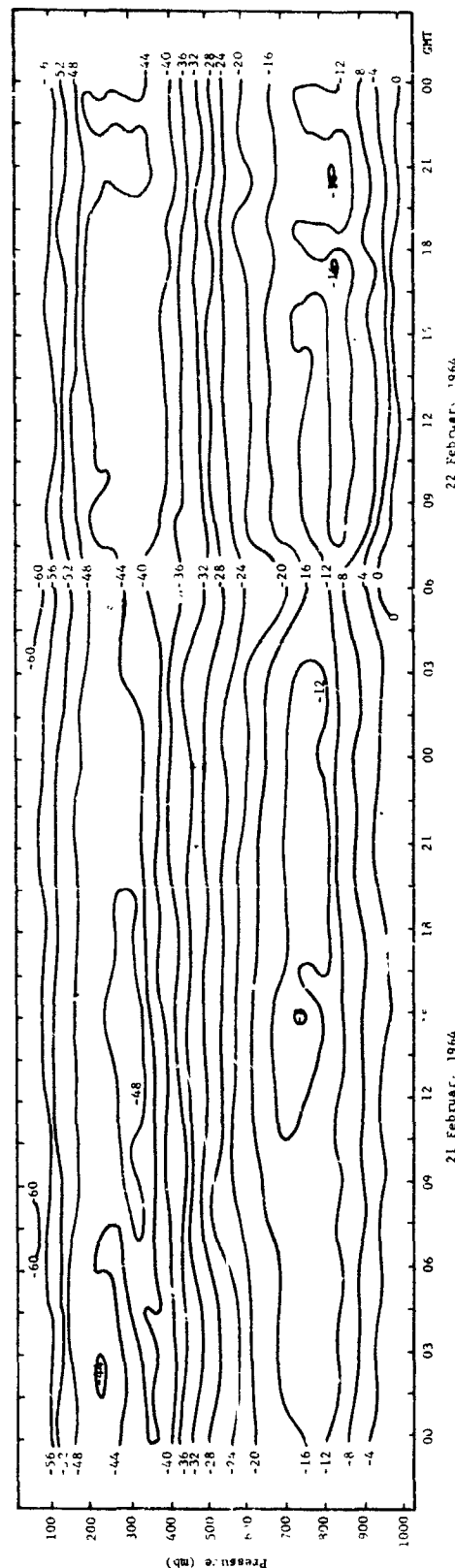
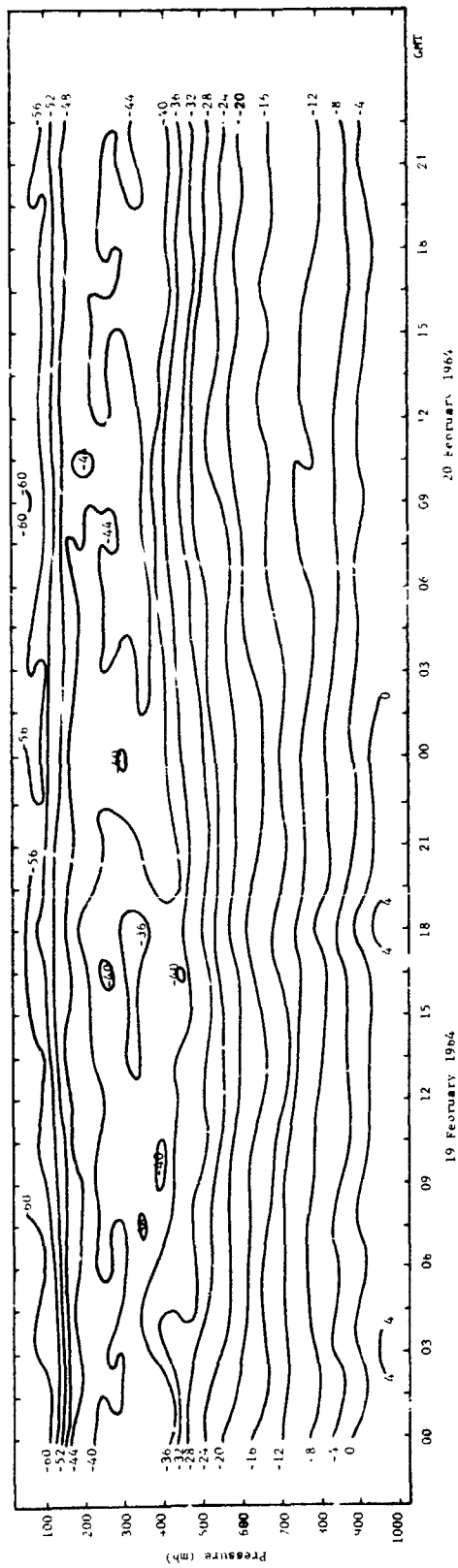
Time Cross Sections
prepared from AVE I Data

Station Number 11001
Marshall Space Flight Center, Alabama

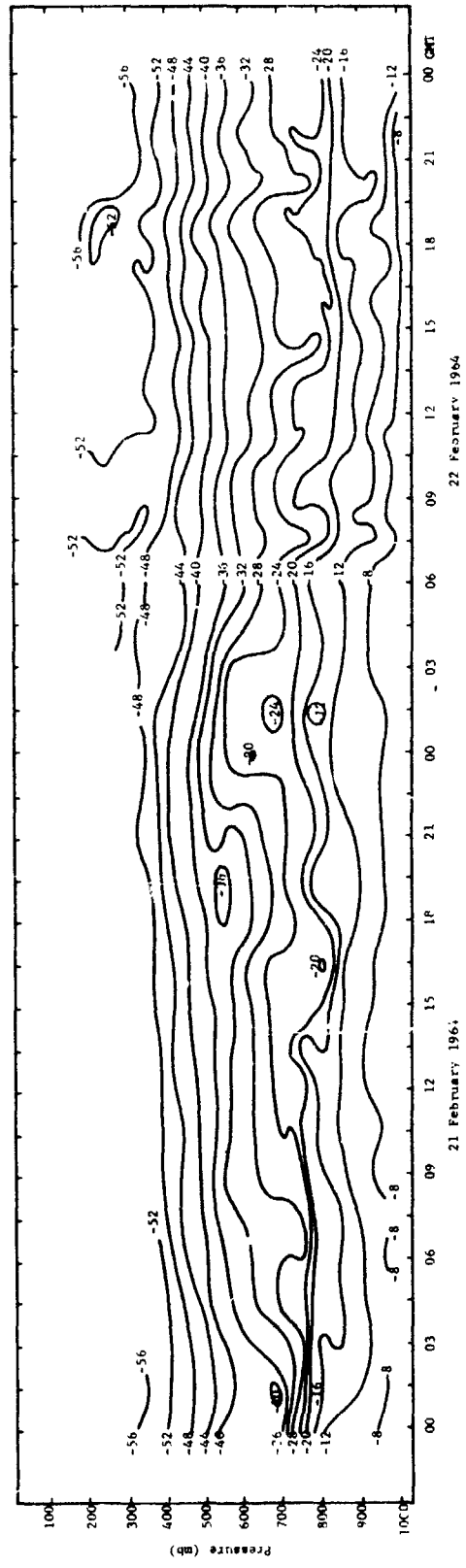
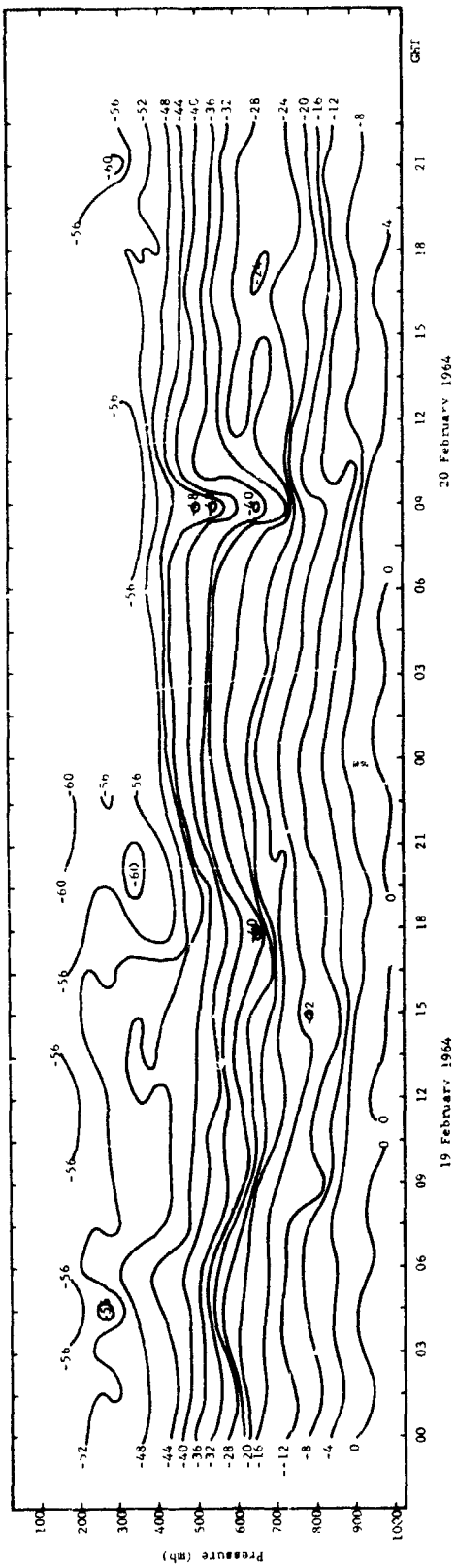
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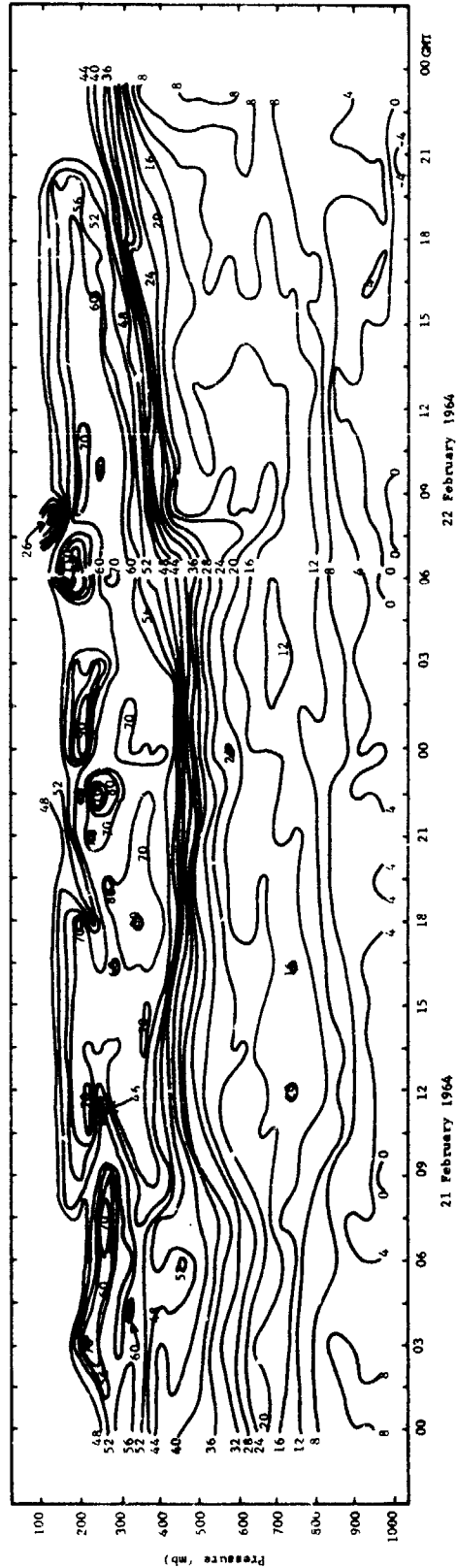
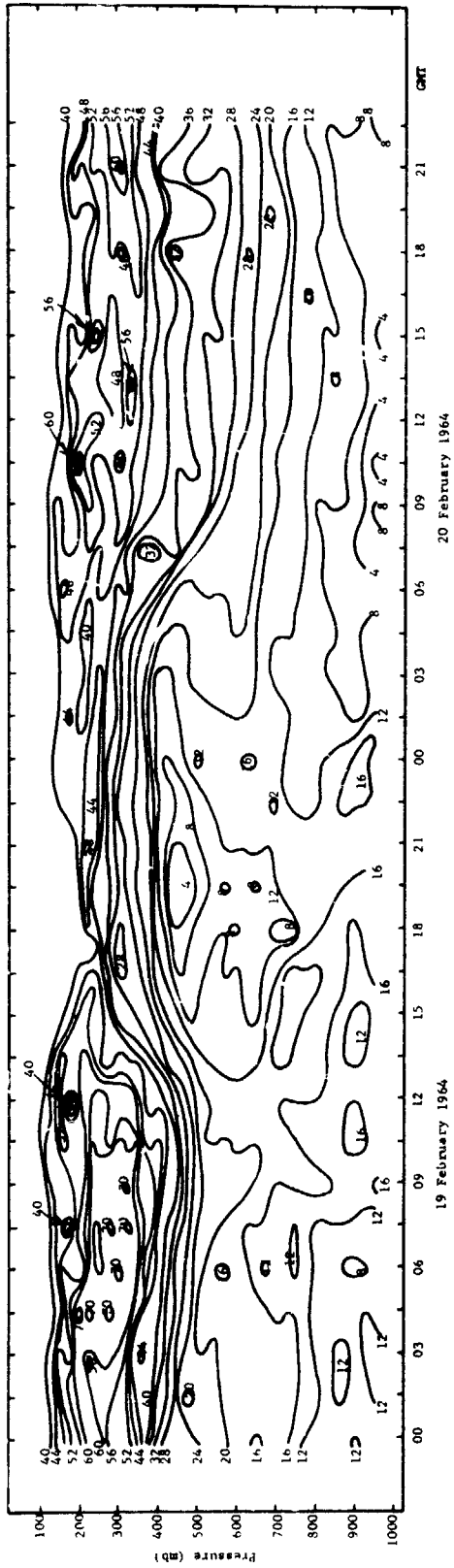
Potential Temperature ($^{\circ}$ K) for Marshall Space Flight Center, Station Number 11001



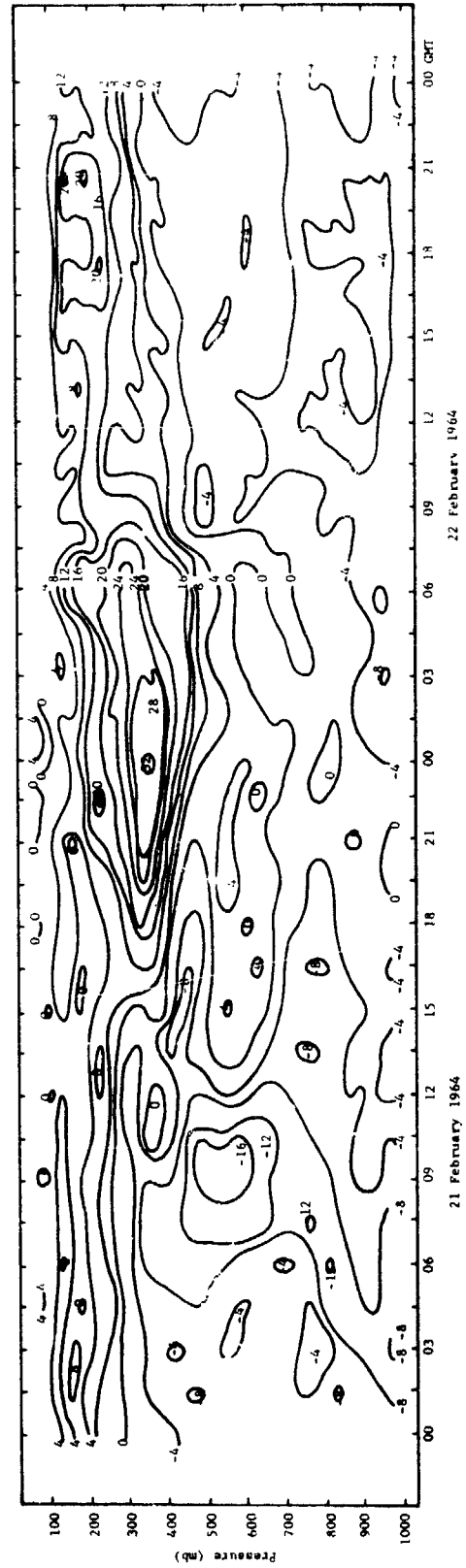
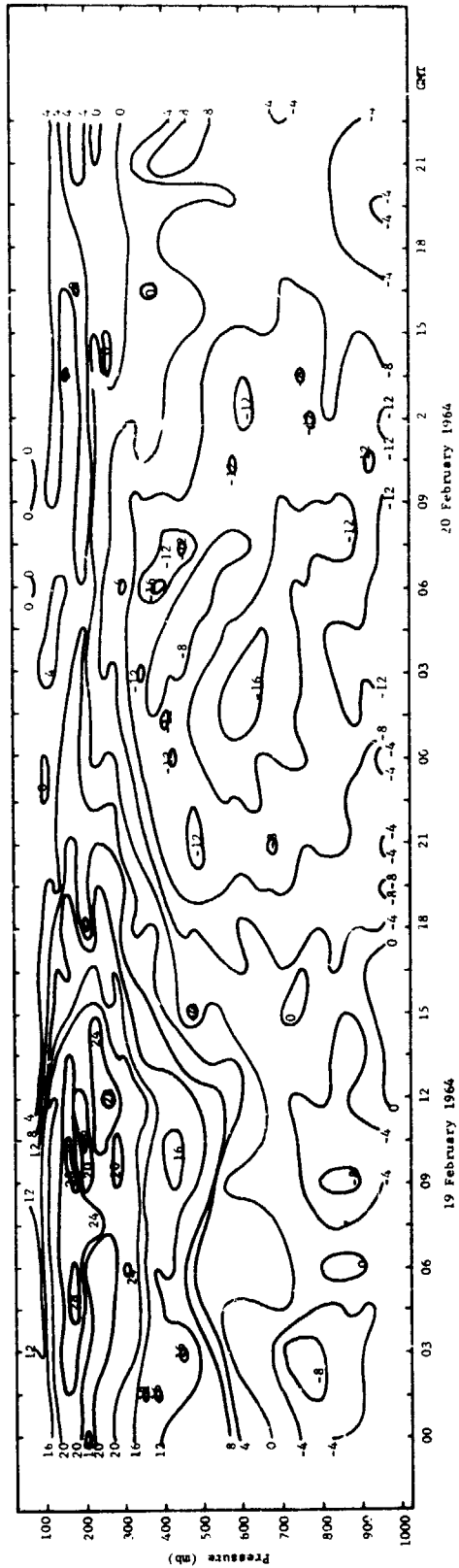
Temperature ($^{\circ}$ C) for Marshall Space Flight Center, Station Number 11001



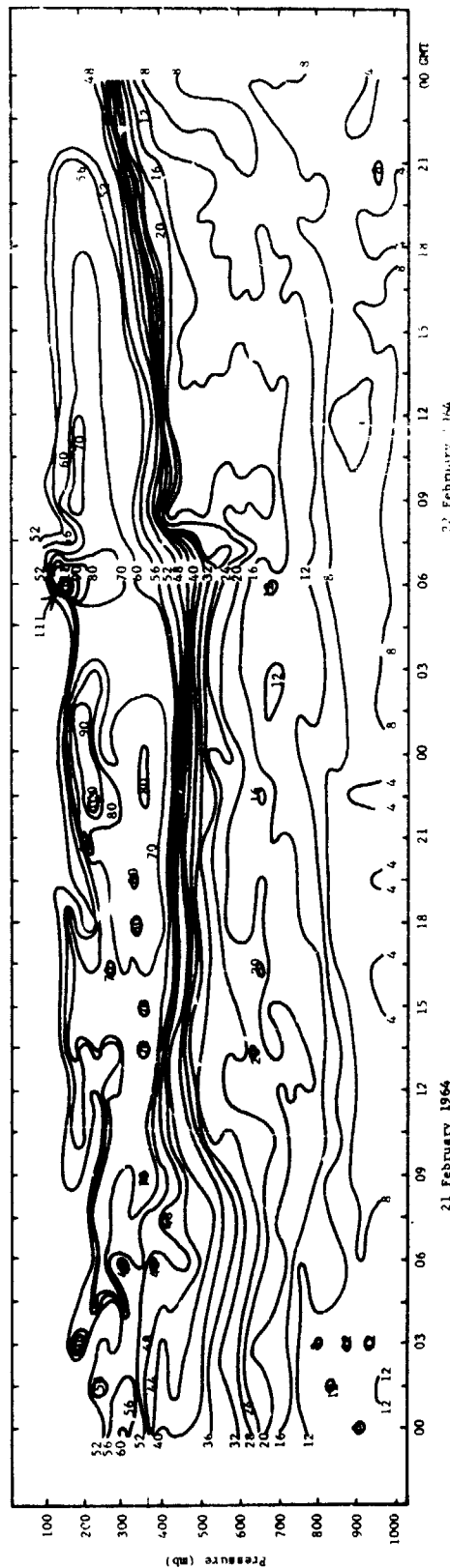
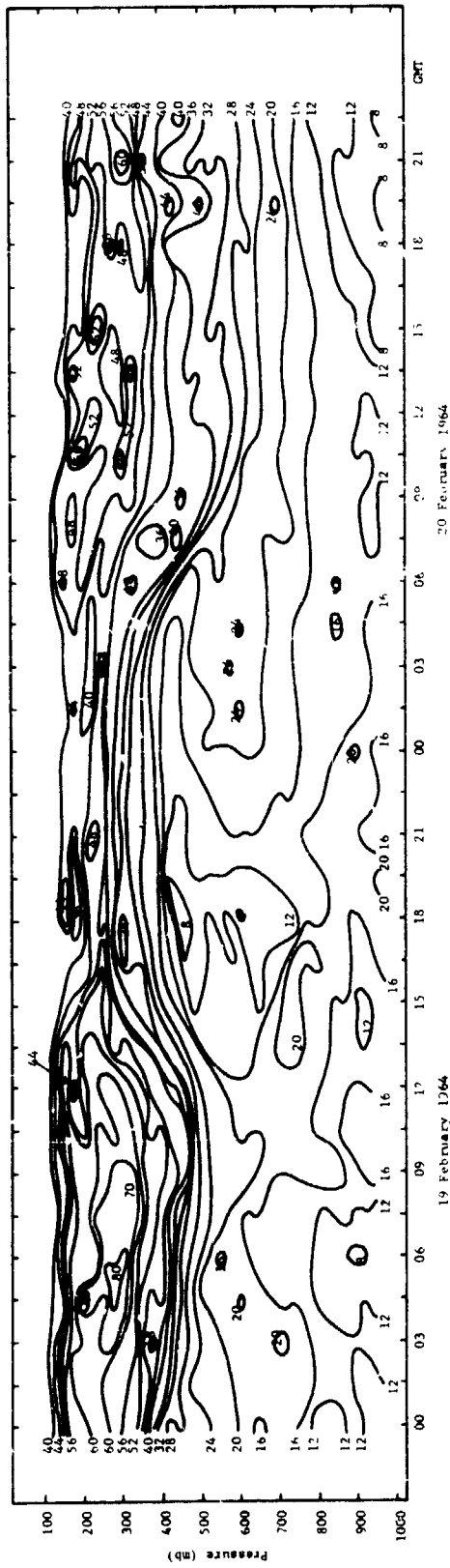
Dewpoint Temperature ($^{\circ}$ C) for Marshall Space Flight Center, Station Number 11001



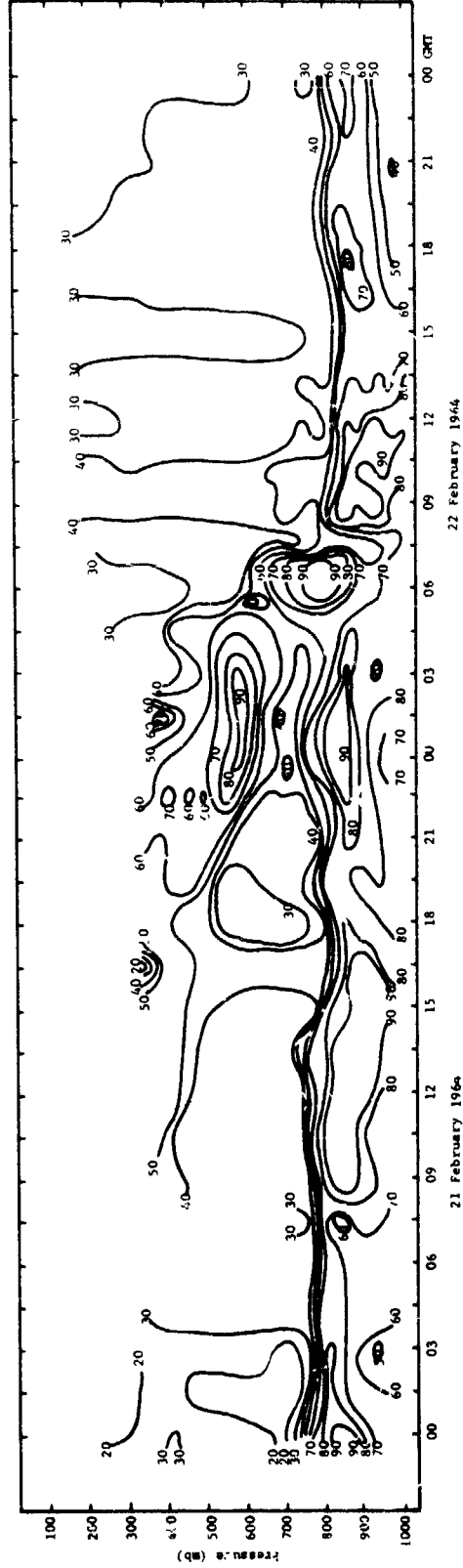
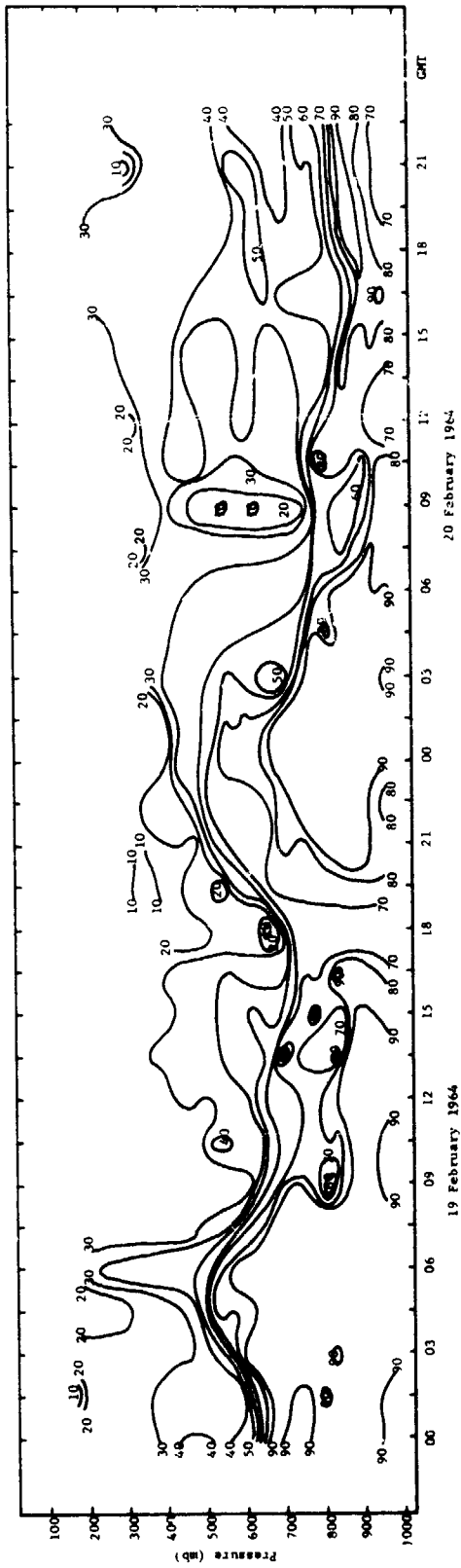
Zonal Wind Component (m/sec) for Marshall Space Flight Center, Station Number 11001



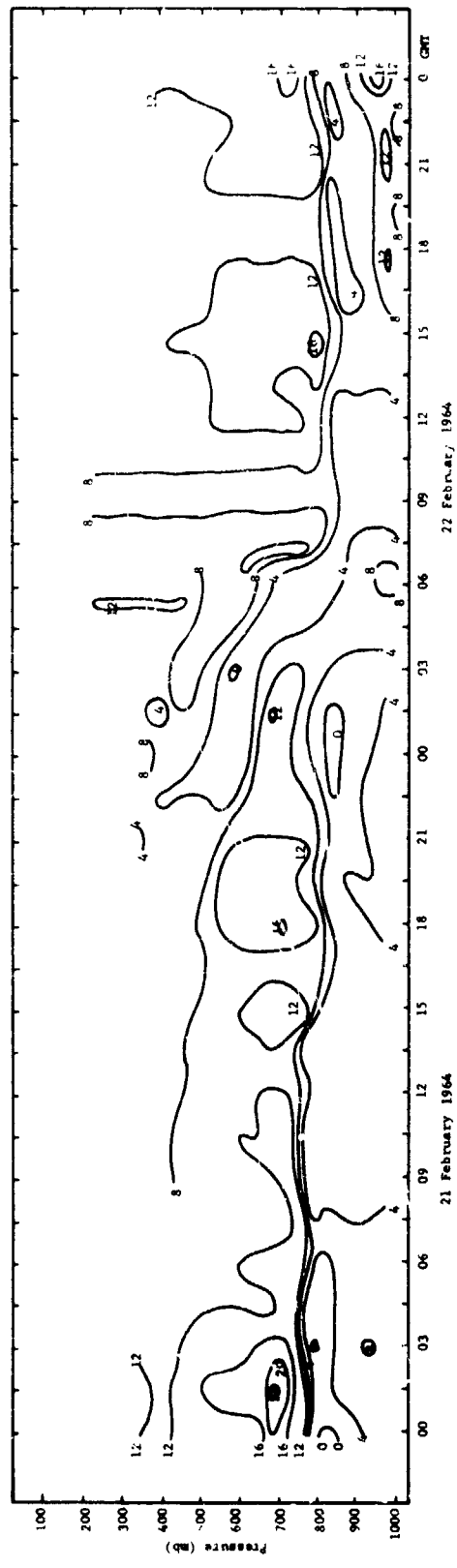
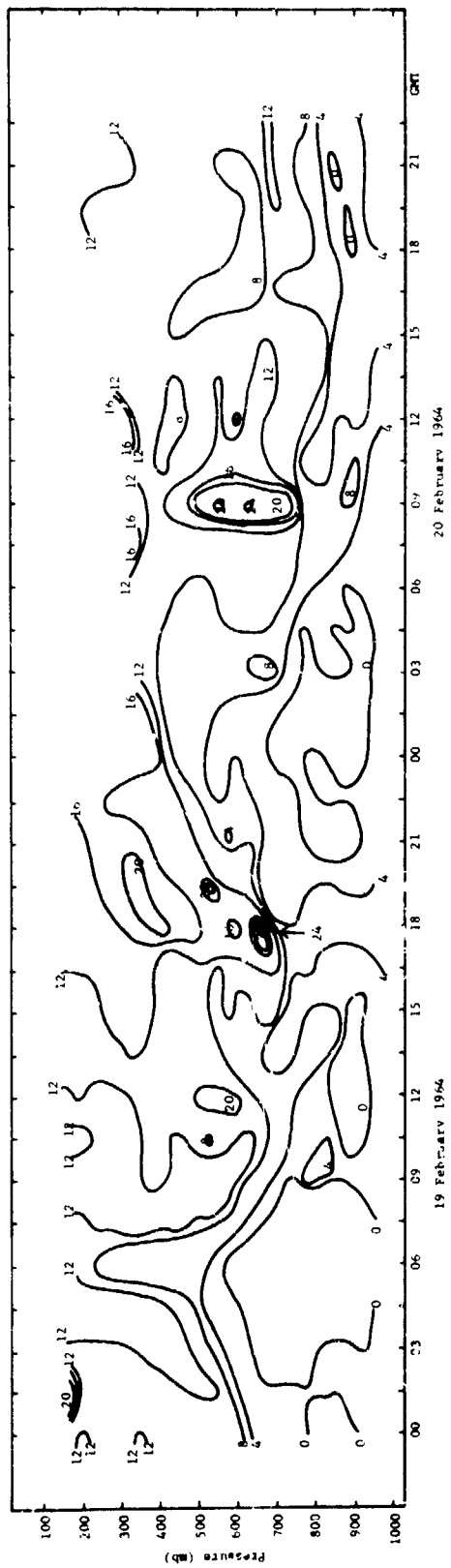
Meridional Wind Component (m/sec) for Marshall Space Flight Center, Station Number 11001



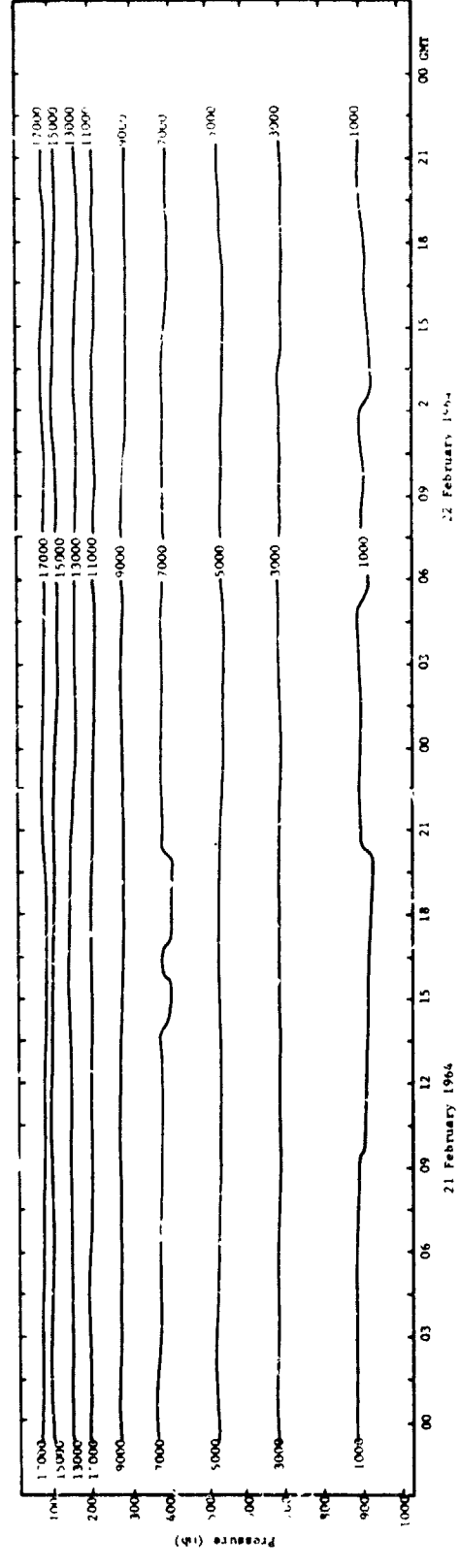
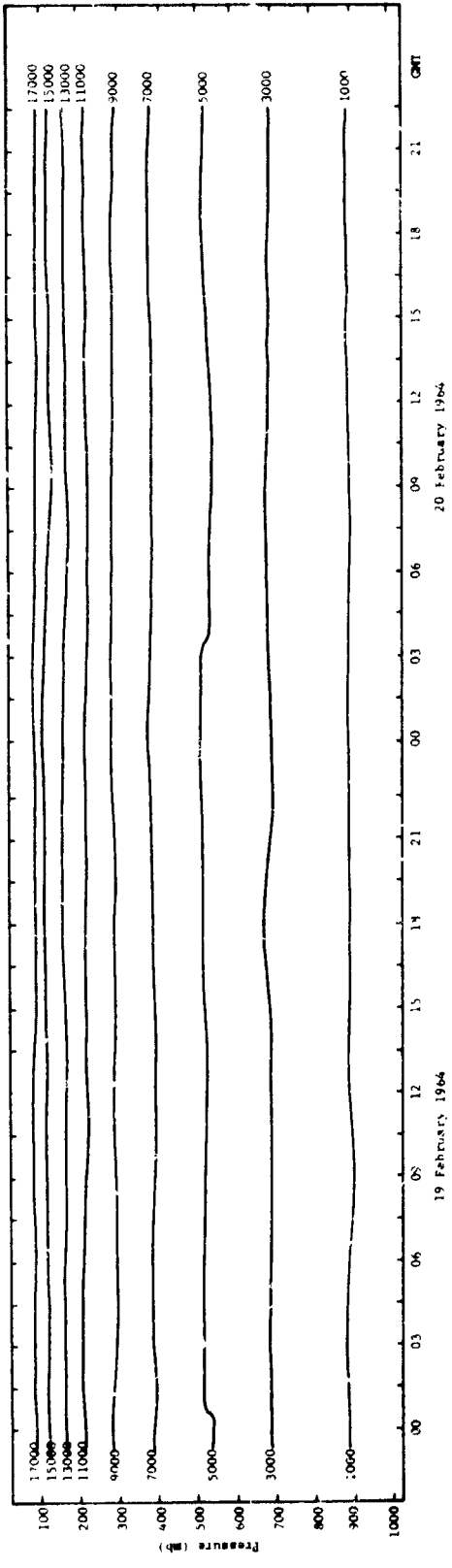
Wind Speed (m/sec) for Marshall Space Flight Center, Station Number 11001



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



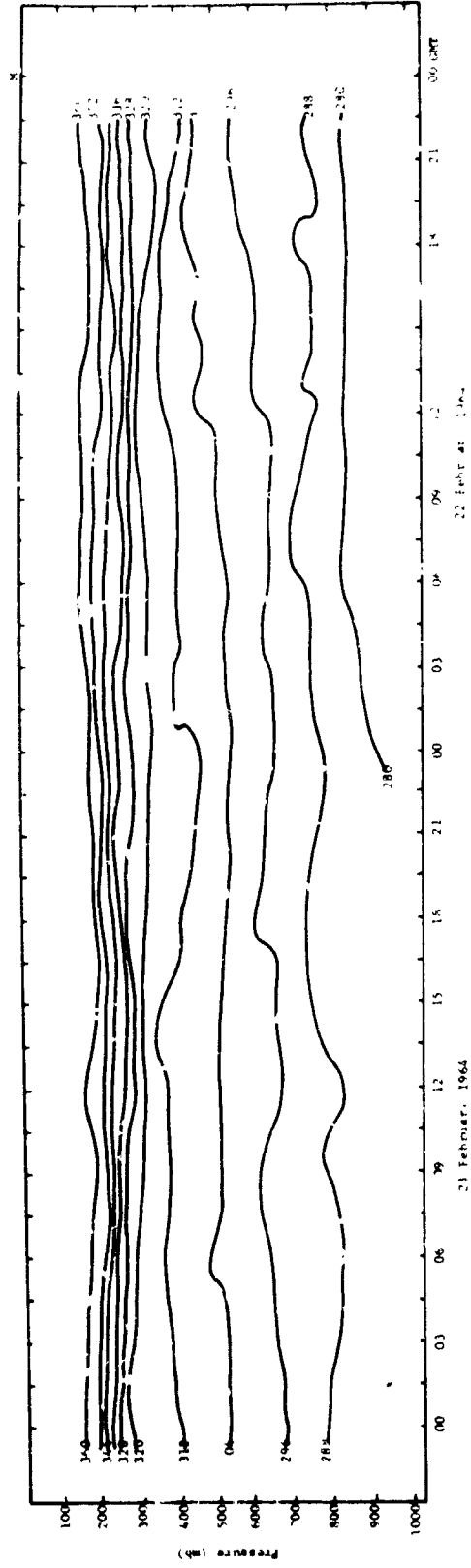
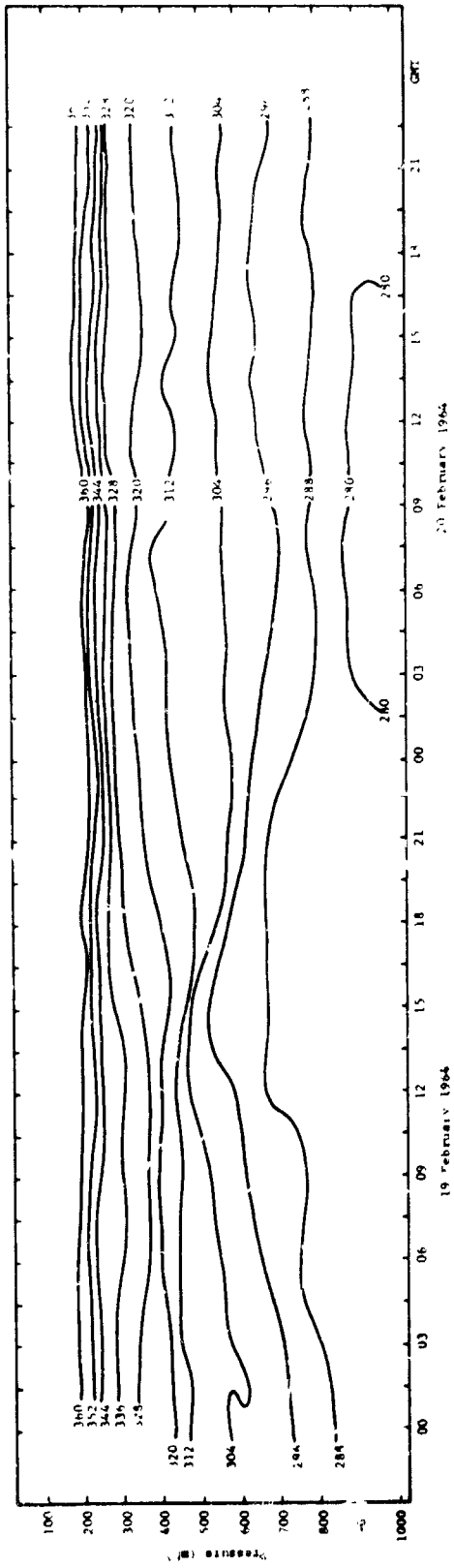
Dewpoint Depression ($^{\circ}$ C) for Marshall Space Flight Center, Station Number 11001



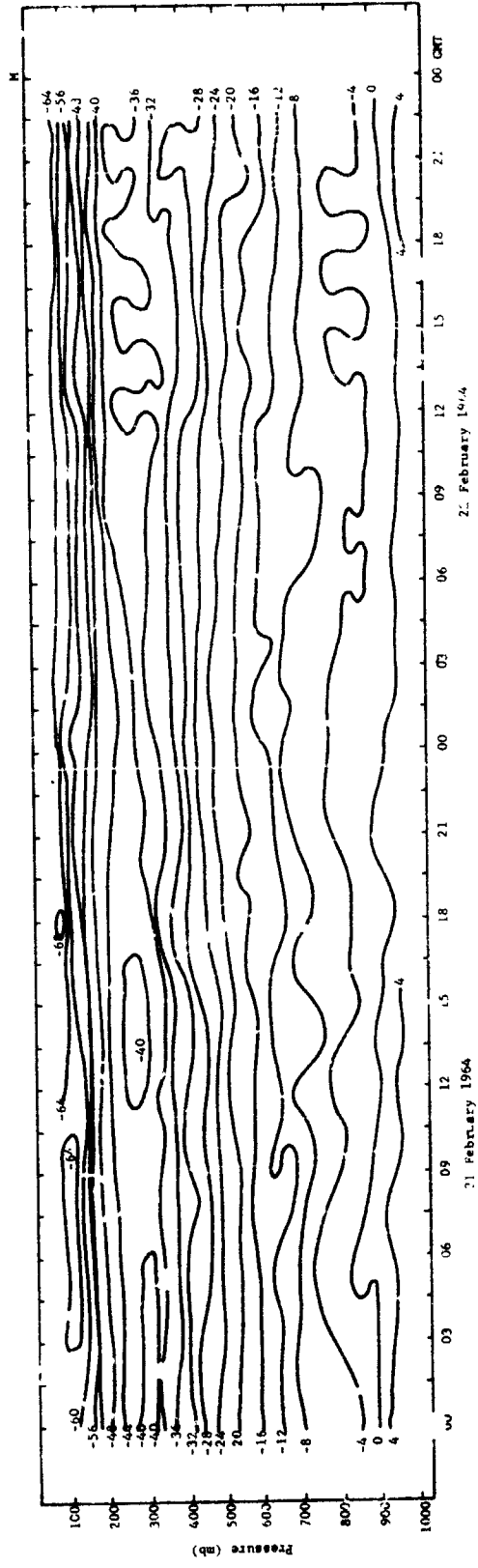
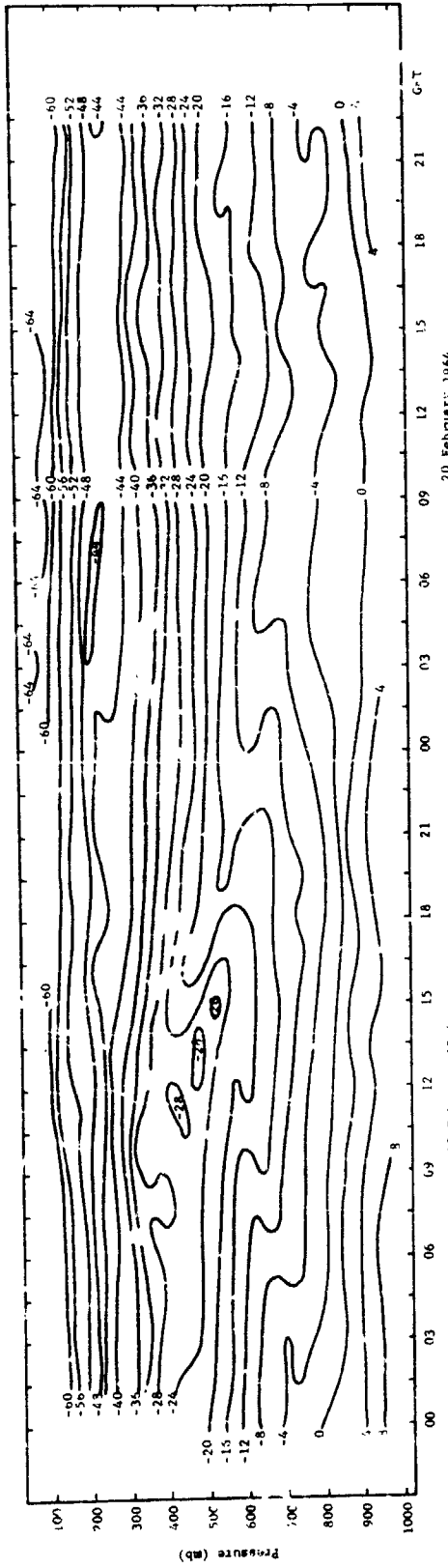
Height (gpm) for Marshall Space Flight Center, Station Number 11001

Station Number 22001

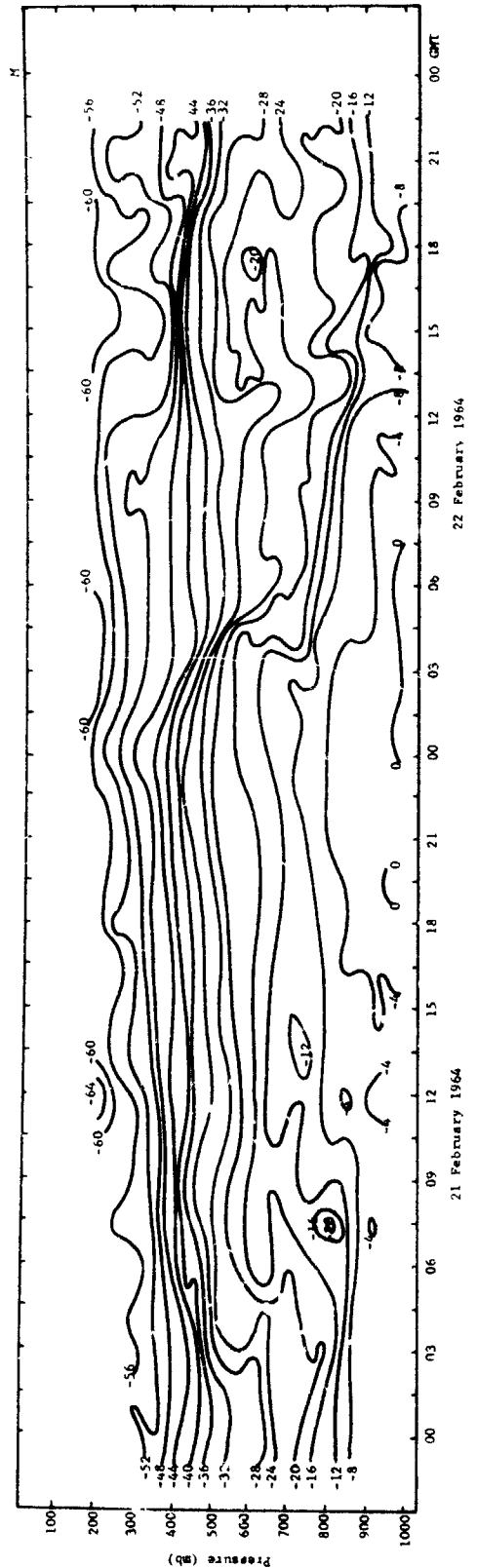
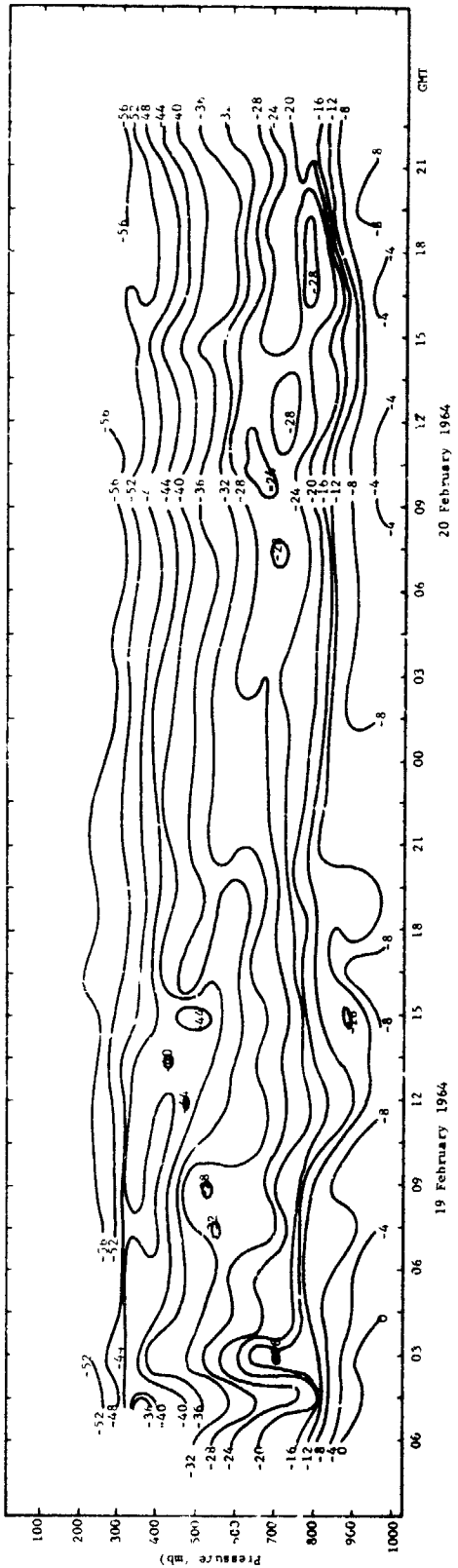
Mississippi Test Facility, Mississippi



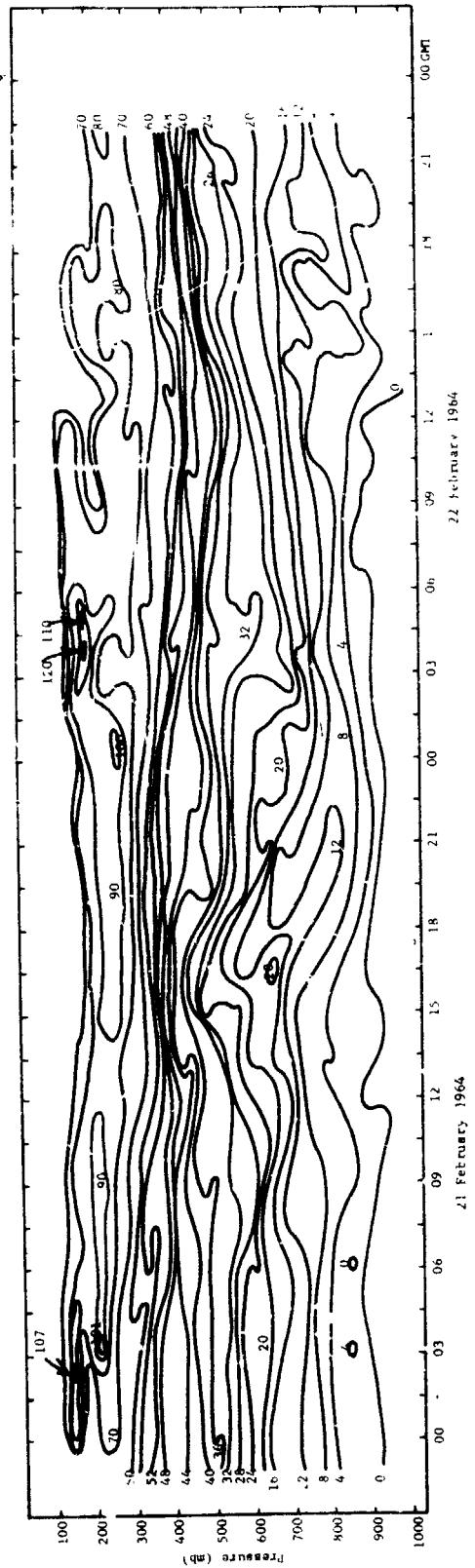
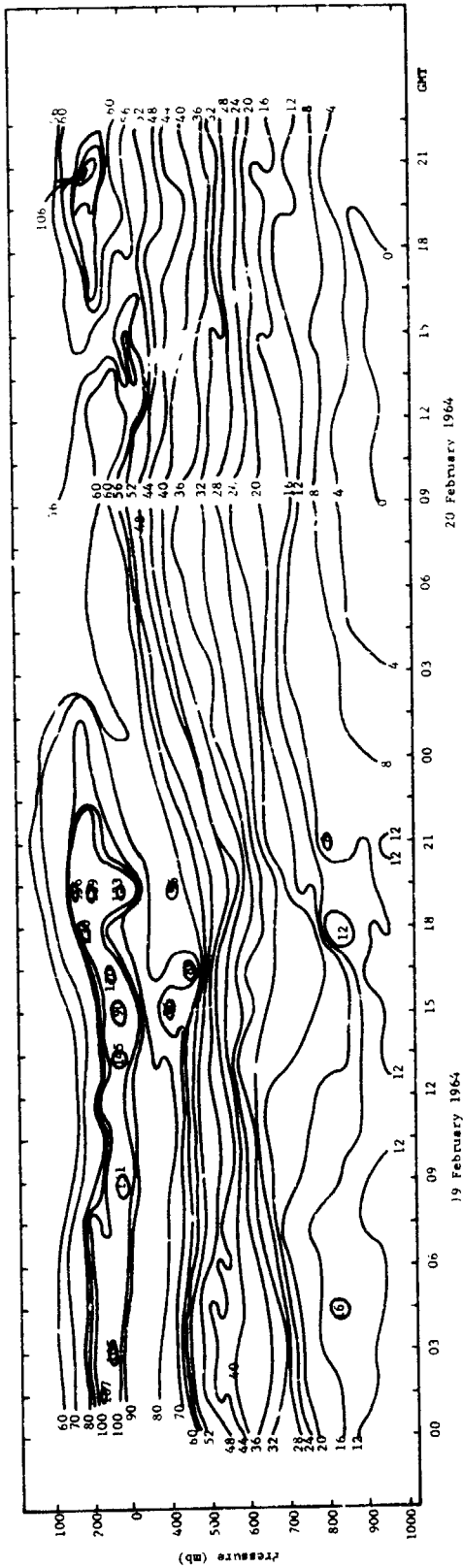
Potential Temperature (°K) for Mississippi Test Facility, Station Number Z2001



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

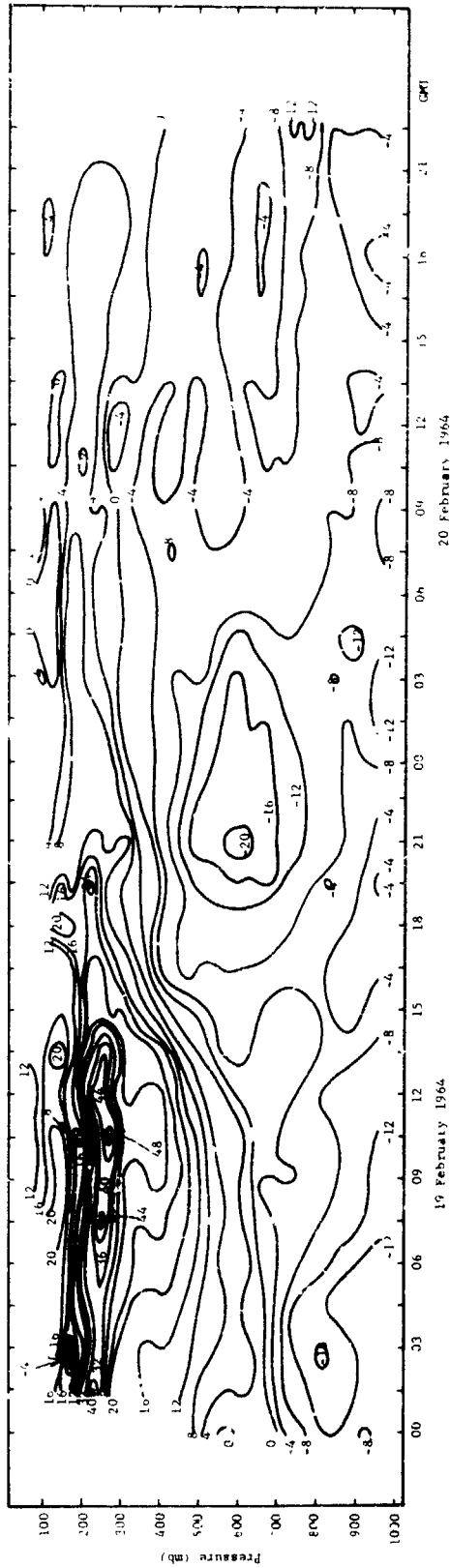


Dewpoint Temperature (°C) for Mississippi Test Facility, Station Number 22001

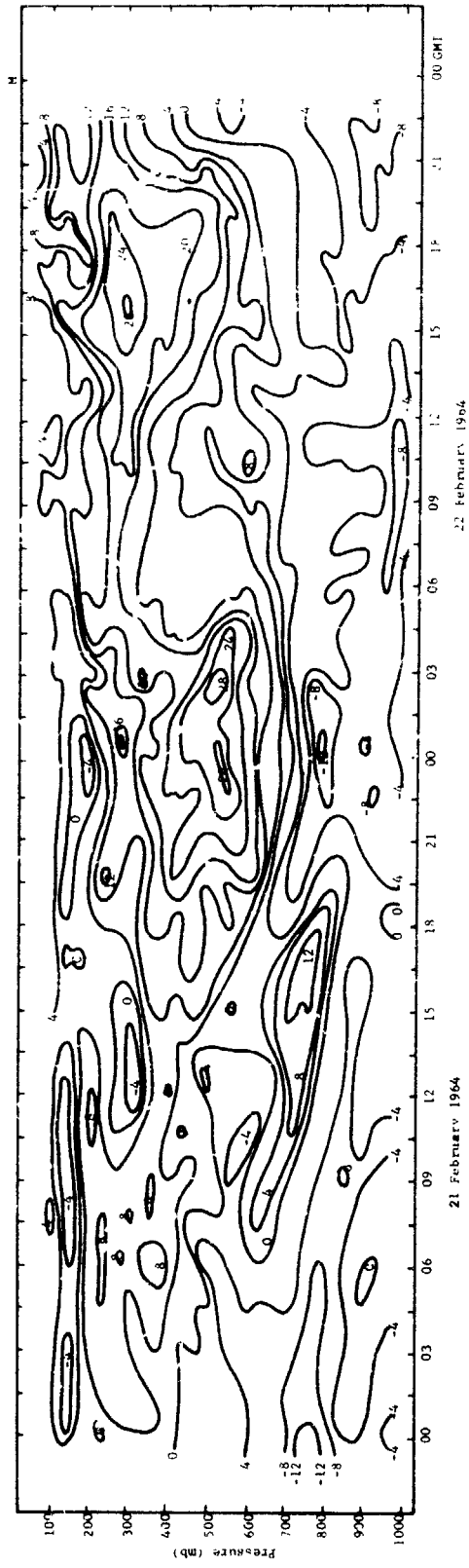


NO. 27 Interval not constant

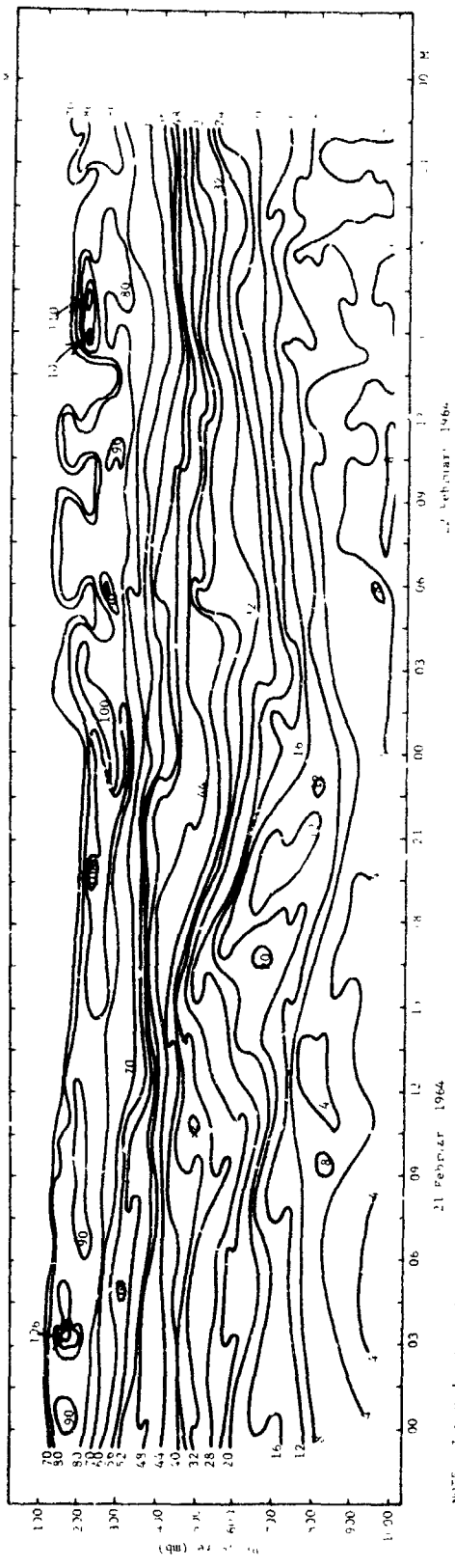
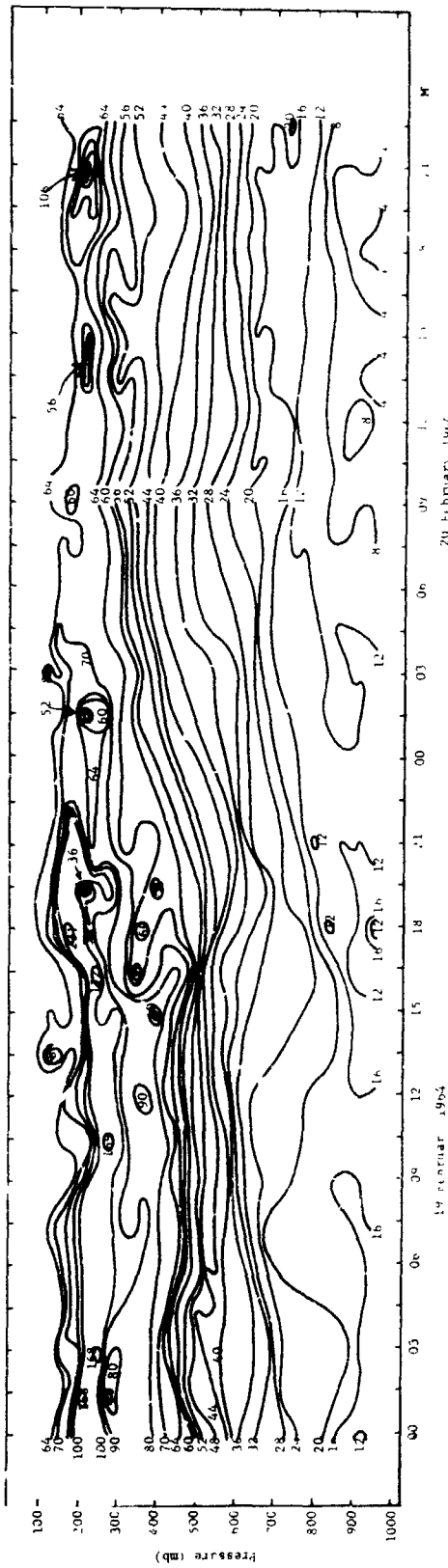
Zonal Wind Component (m/sec) for Mississippi Test Facility, Station Number 22001



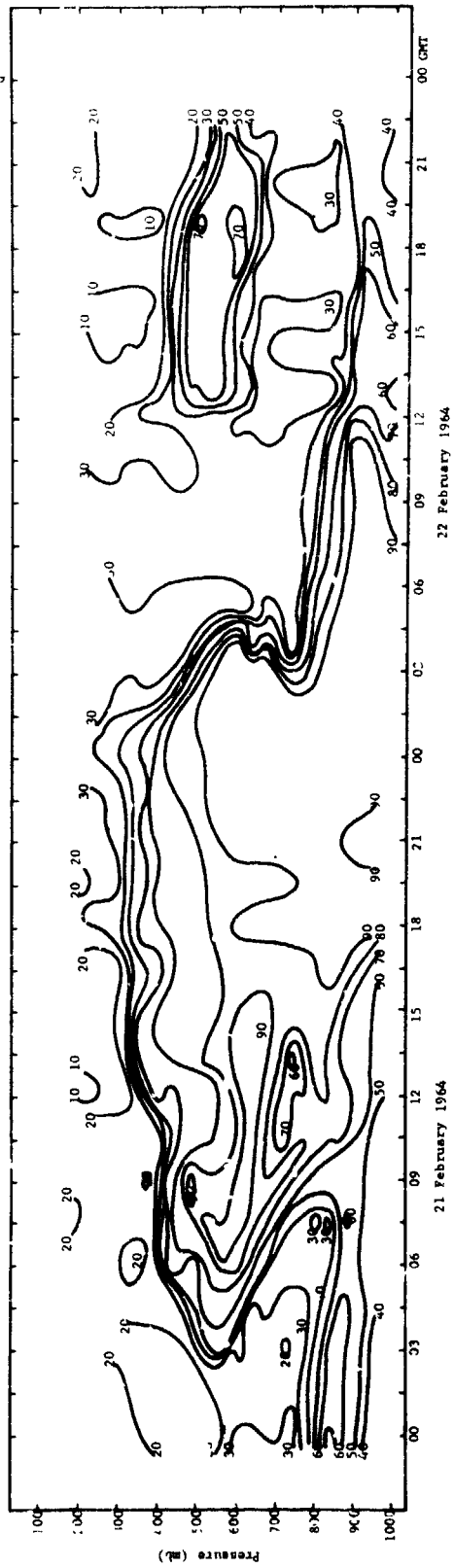
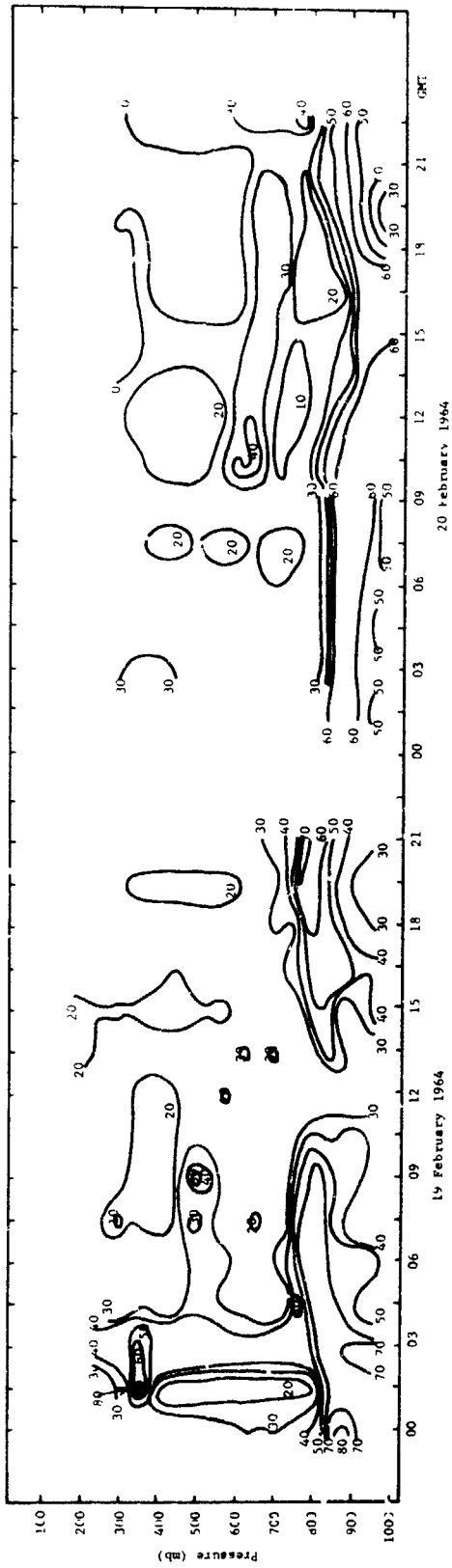
NOTE: Interval not constant



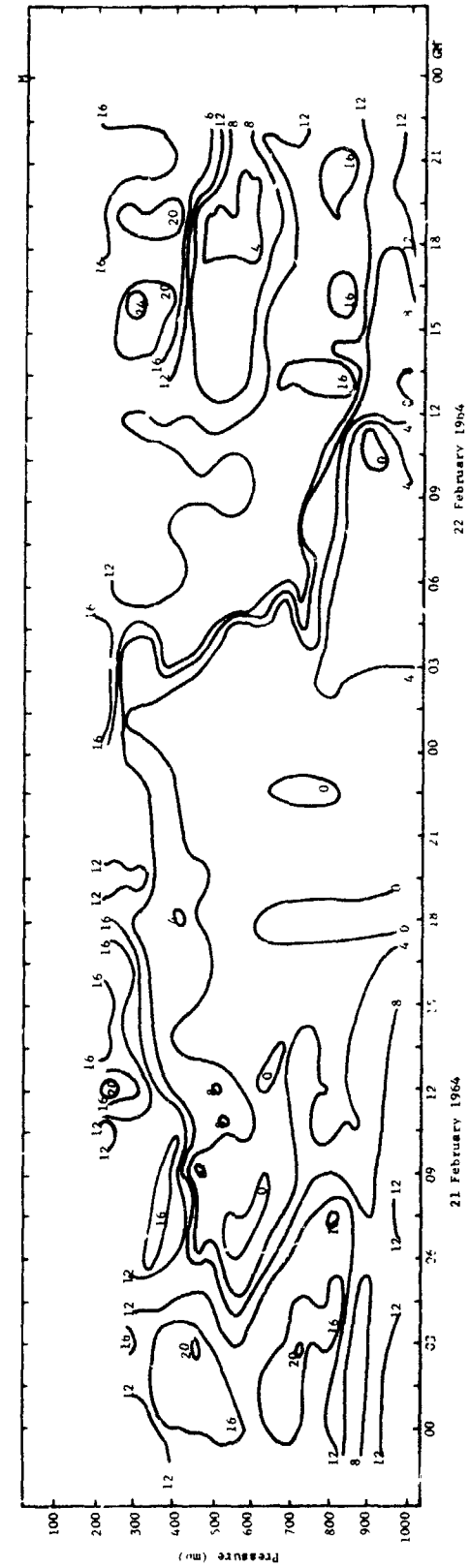
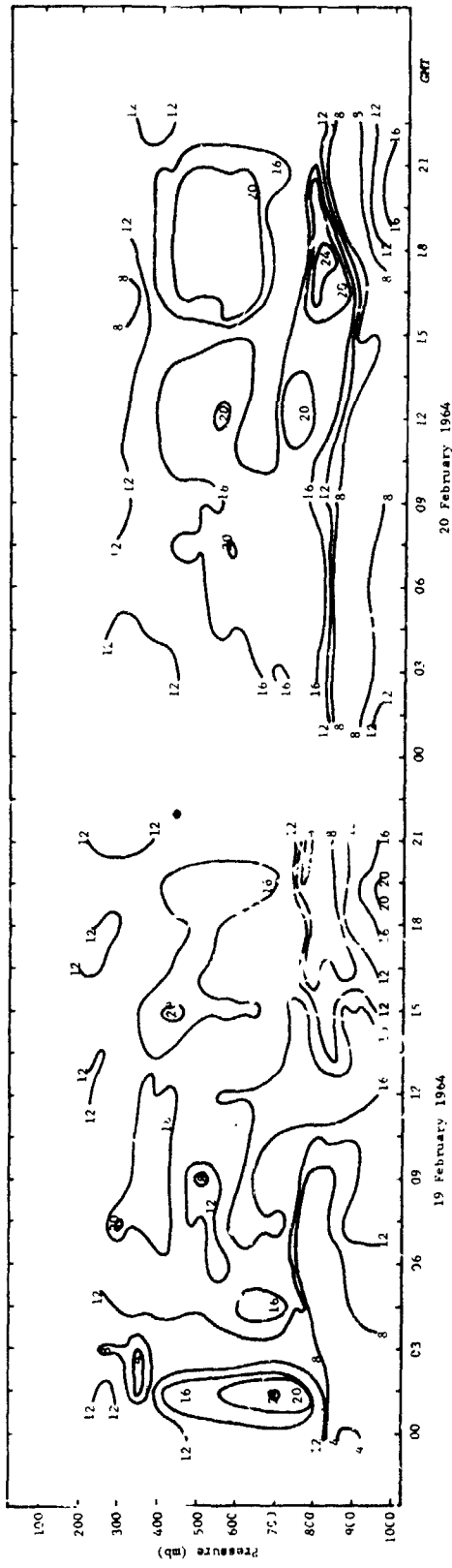
Meridional Wind Component (m/sec) for Mississippi Test Facility, Station Number 22001



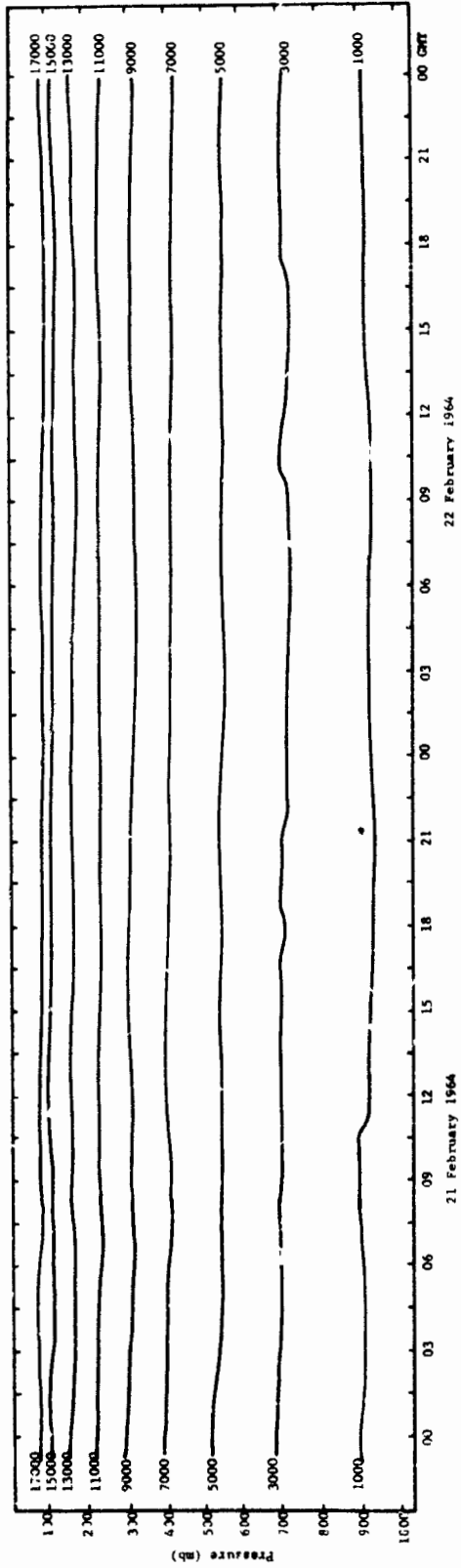
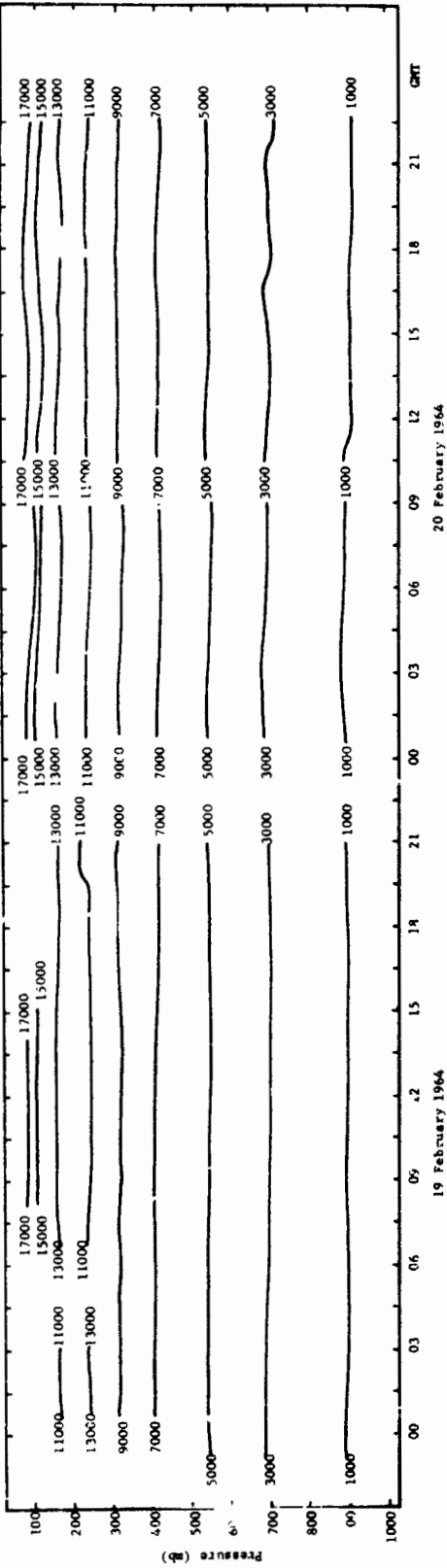
Wind Speed (m/sec) for Mississippi Test Facility, Station Number 22001



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



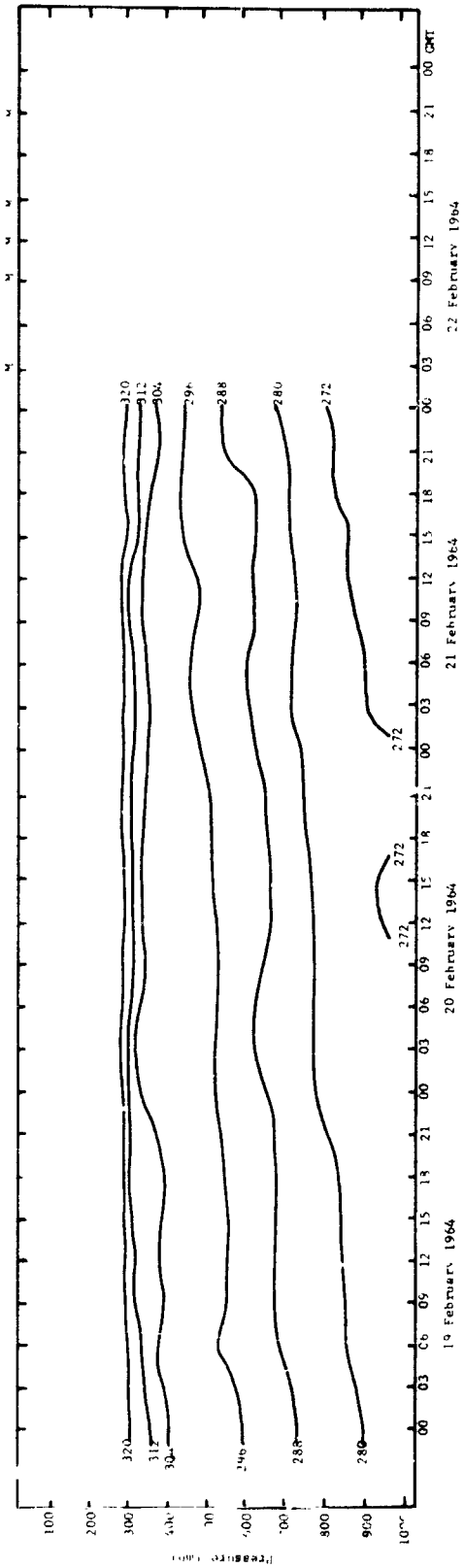
Dewpoint Depression ($^{\circ}$ C) for Mississippi Test Facility, Station Number 22001



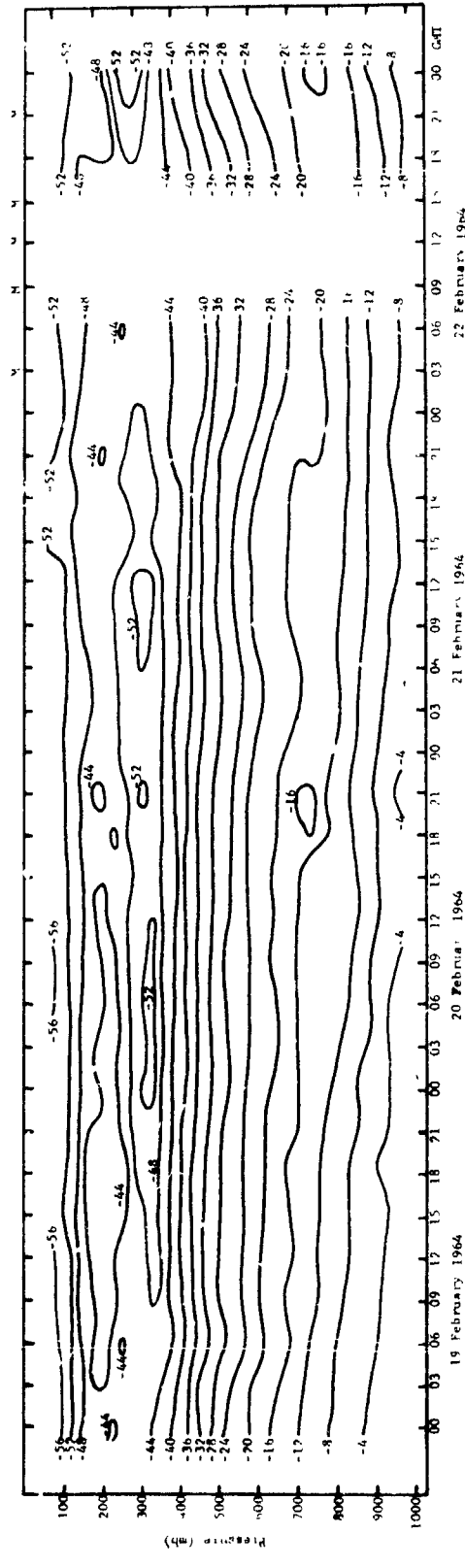
Height (gpm) for Mississippi Test Facility, Station Number 22001

Station Number 33001

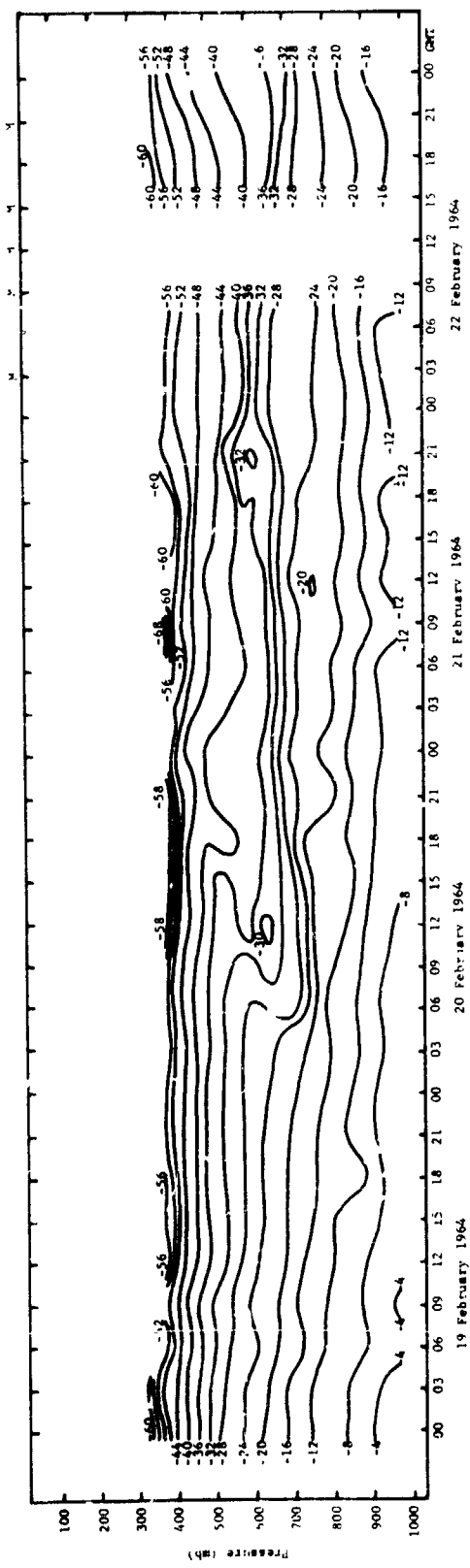
Dayton, Ohio



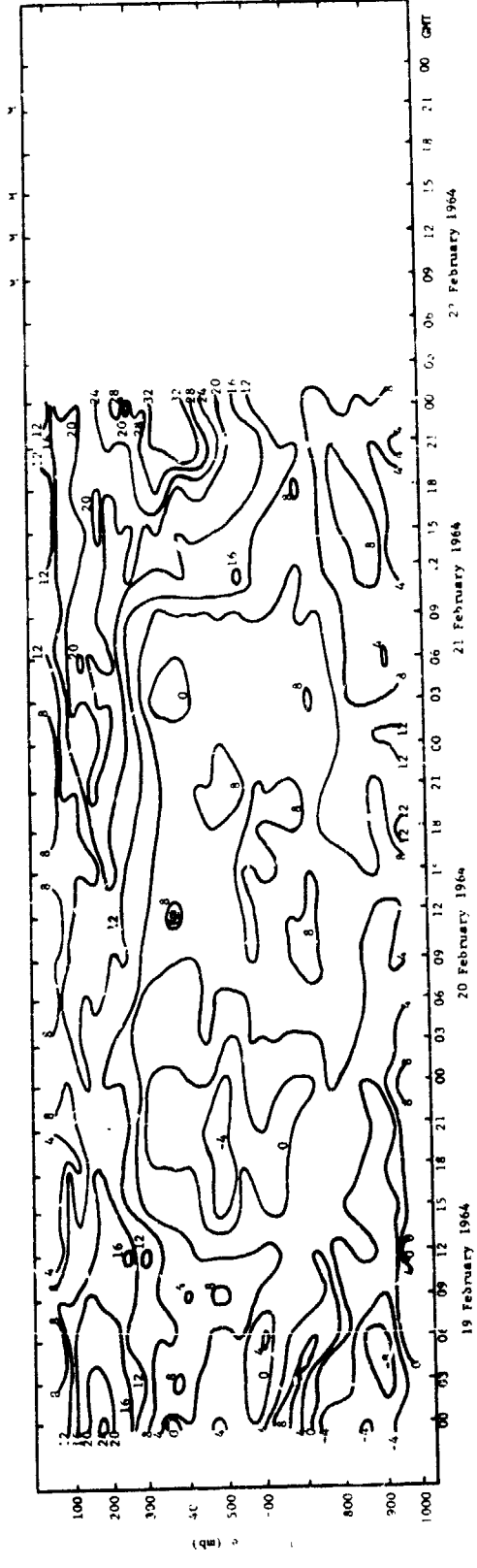
Potential Temperature ($^{\circ}$ K) for Dayton, Ohio, Station Number 33001



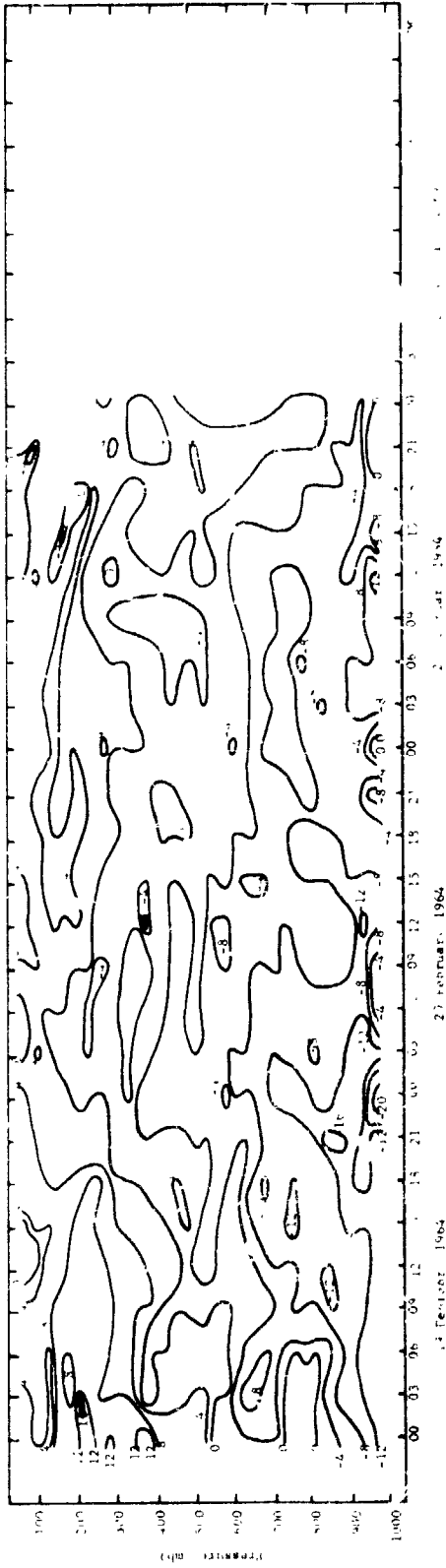
Temperature ($^{\circ}$ C) for Dayton, Ohio, Station Number 33001



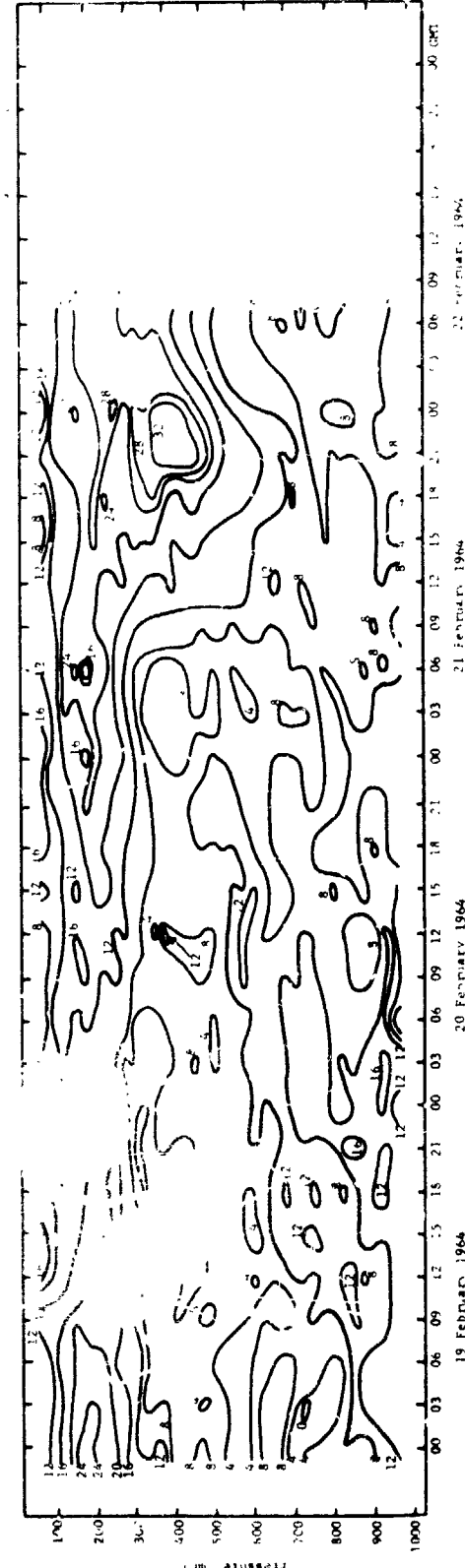
Dewpoint Temperature ($^{\circ}\text{C}$) for Dayton, Ohio, Station Number 33001



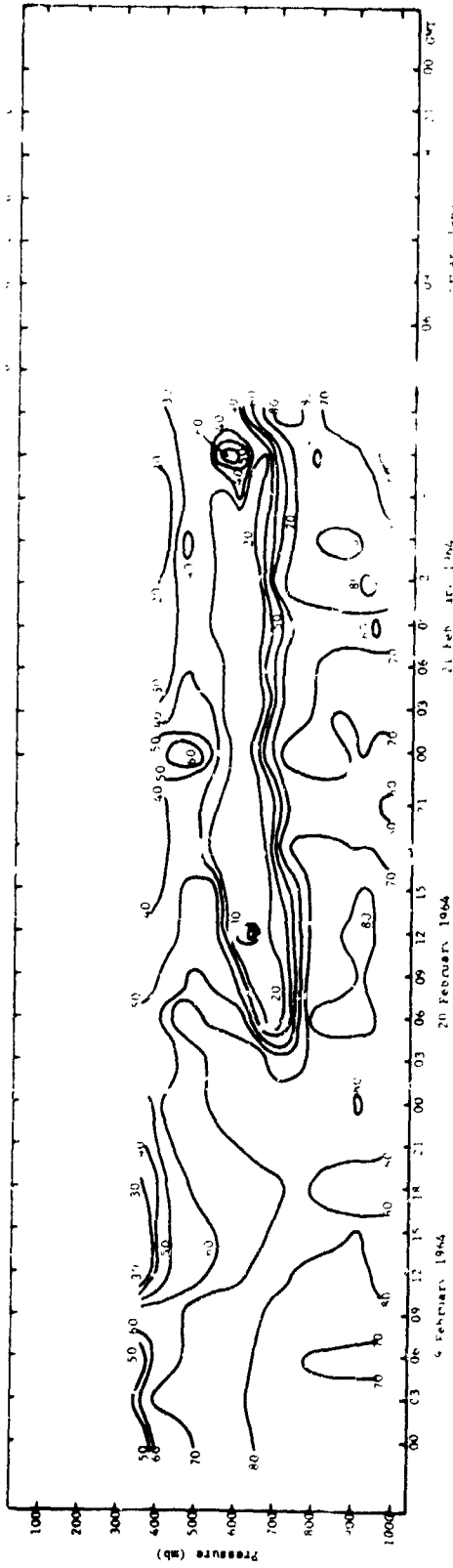
Zonal Wind Component (mi/sec) for Dayton, Ohio, Station Number 33001



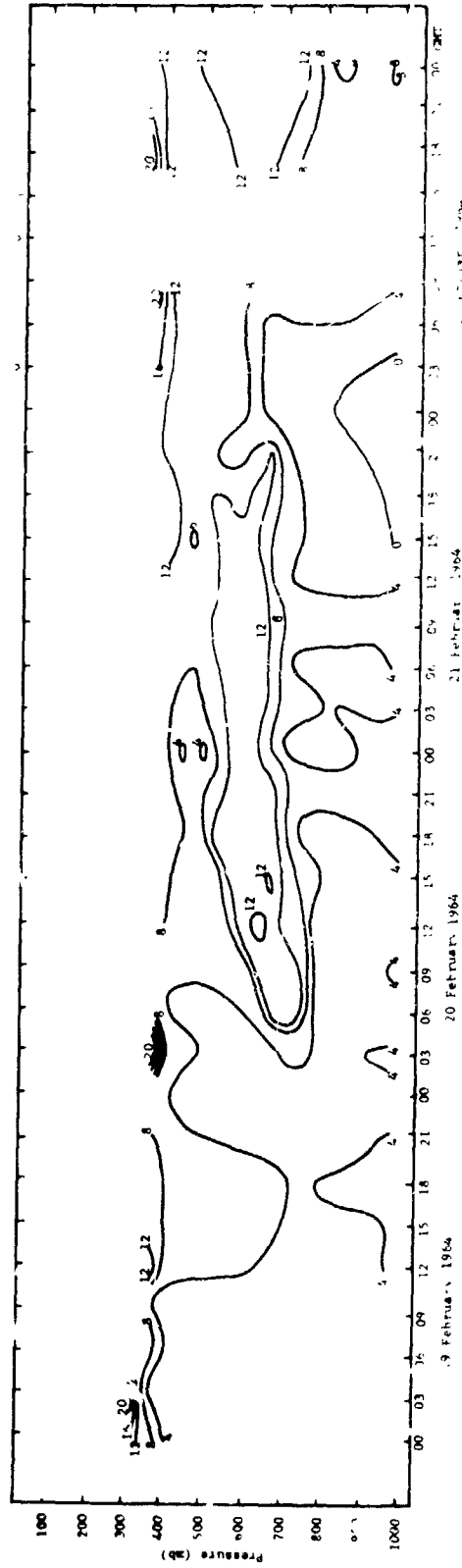
Meridional Wind Component (m/sec) for Dayton, Ohio, Station Number 33001



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



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

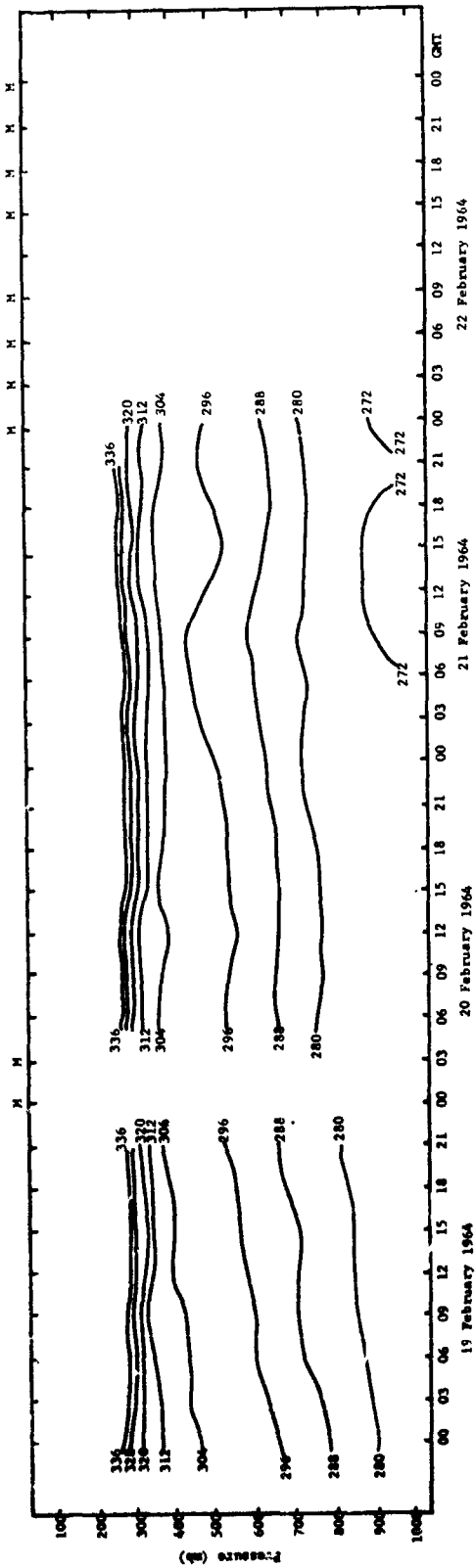


Dewpoint Depression (°C) for Dayton, Ohio, Station Number 33061

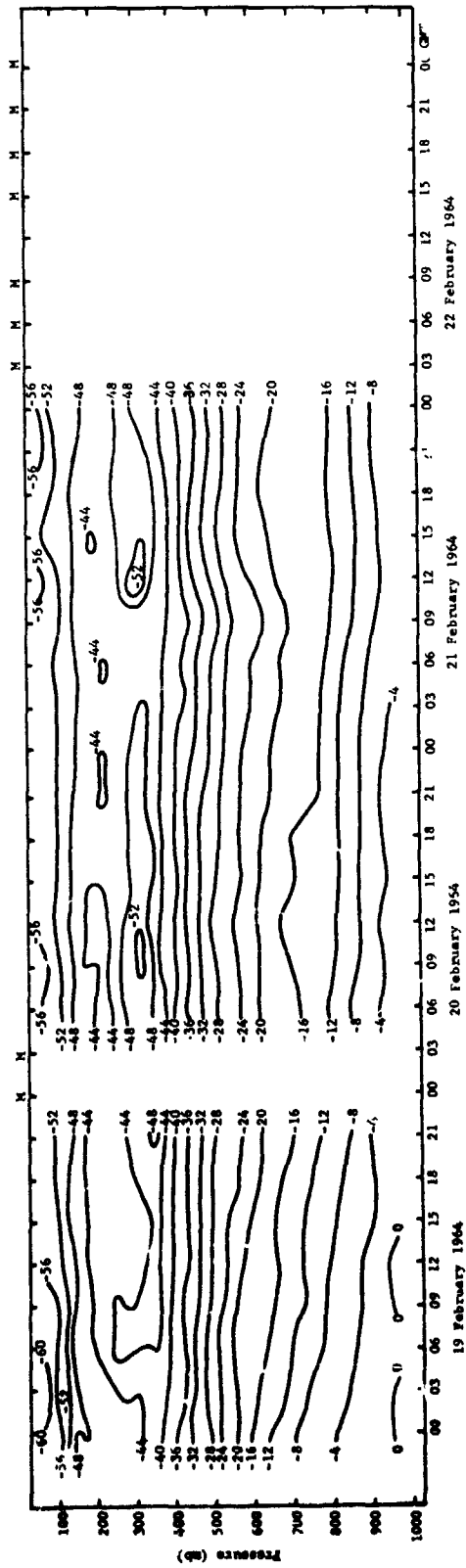
Station Number 33002

Huntington, West Virginia

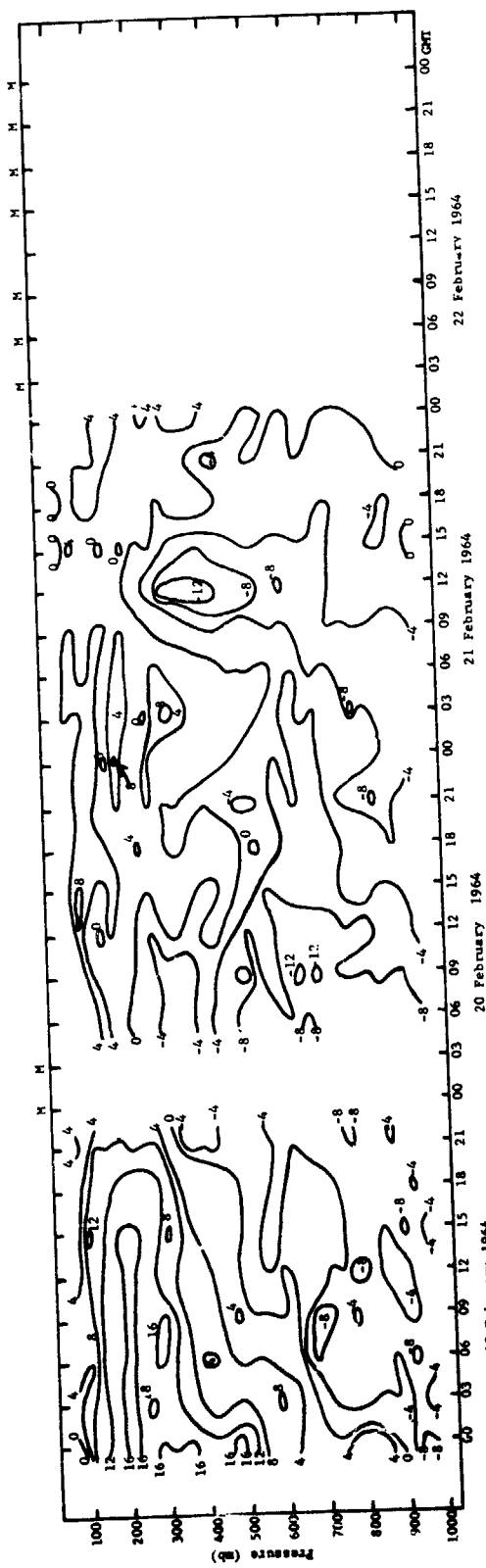
C-2



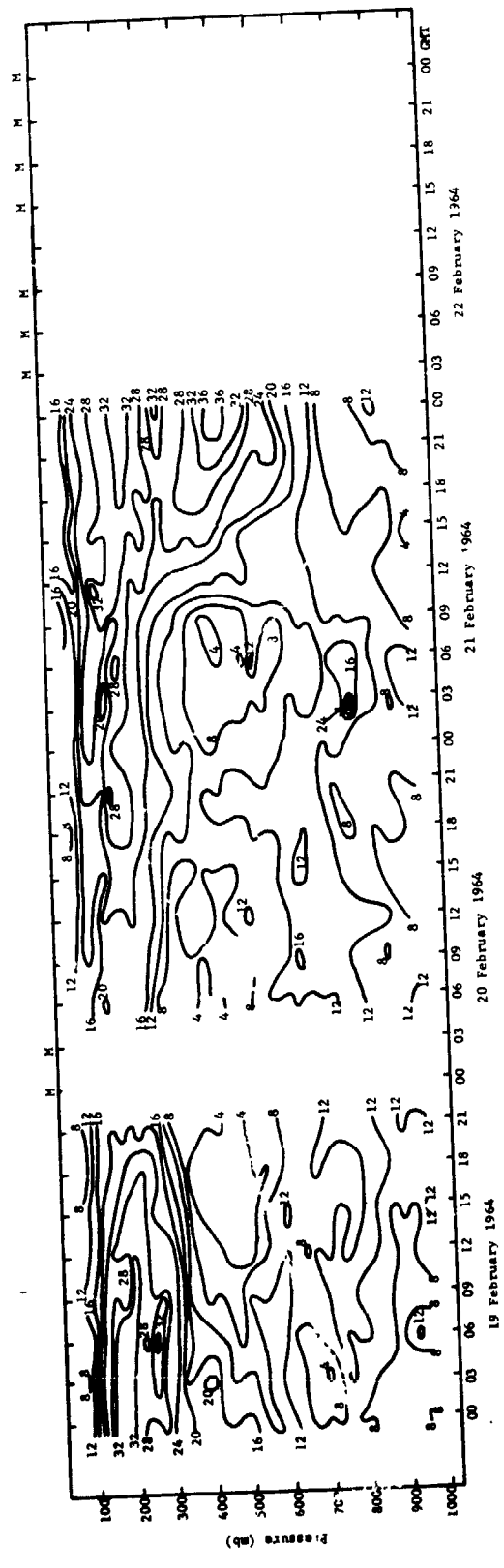
Potential Temperature (°K) for Huntington, West Virginia, Station Number 33002



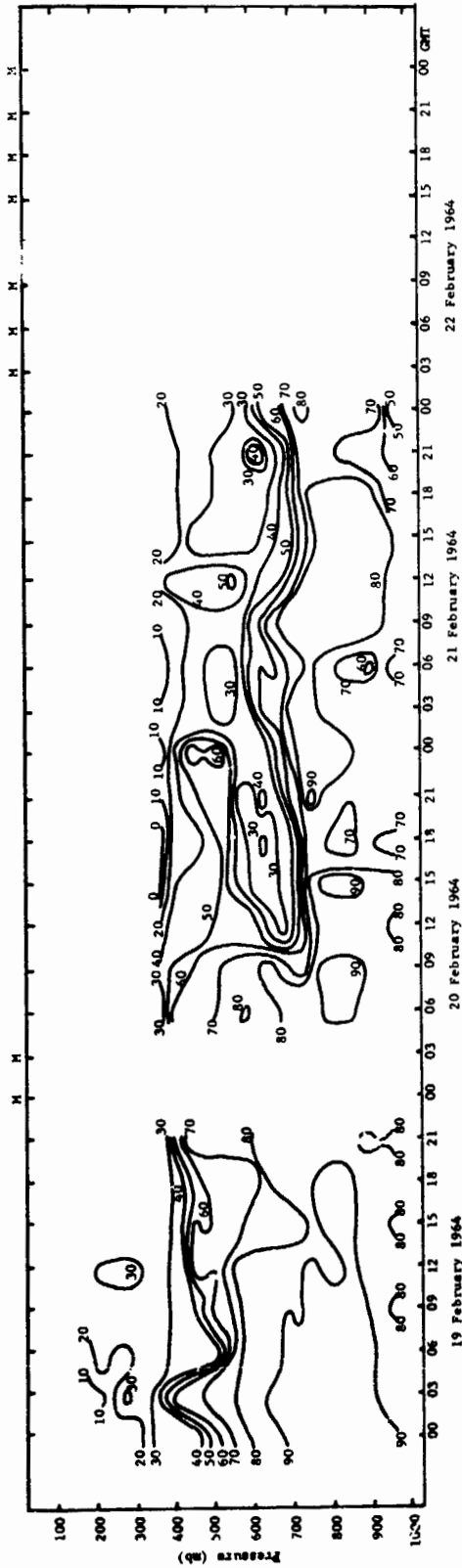
Temperature (°C) for Huntington, West Virginia, Station Number 33002



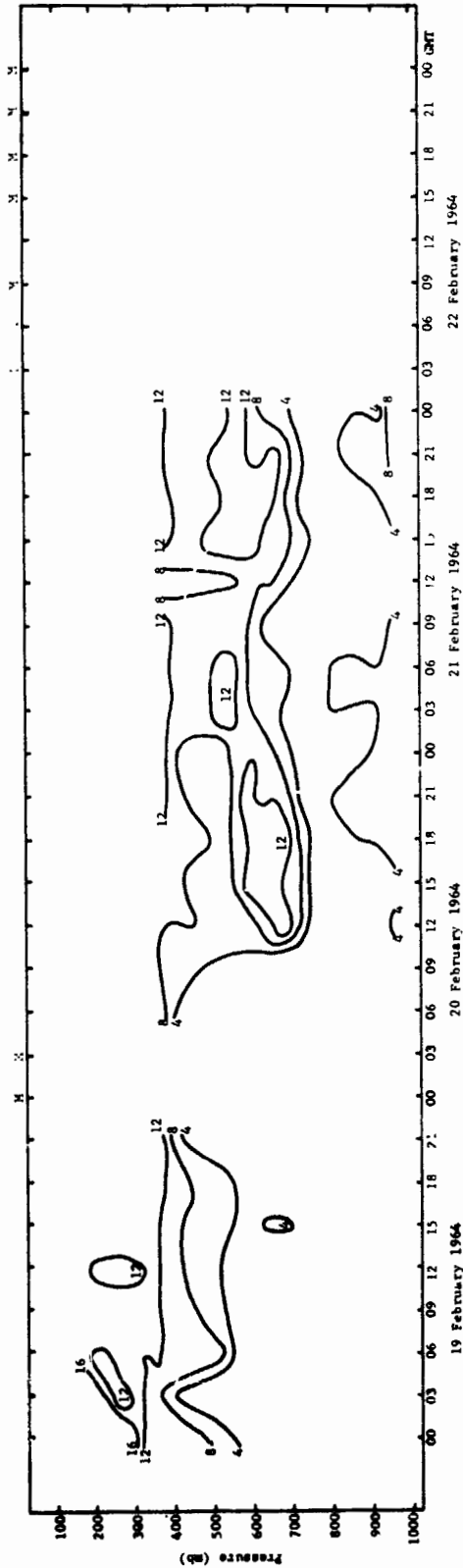
Meridional Wind Component (m/sec) for Huntington, West Virginia, Station Number 33002

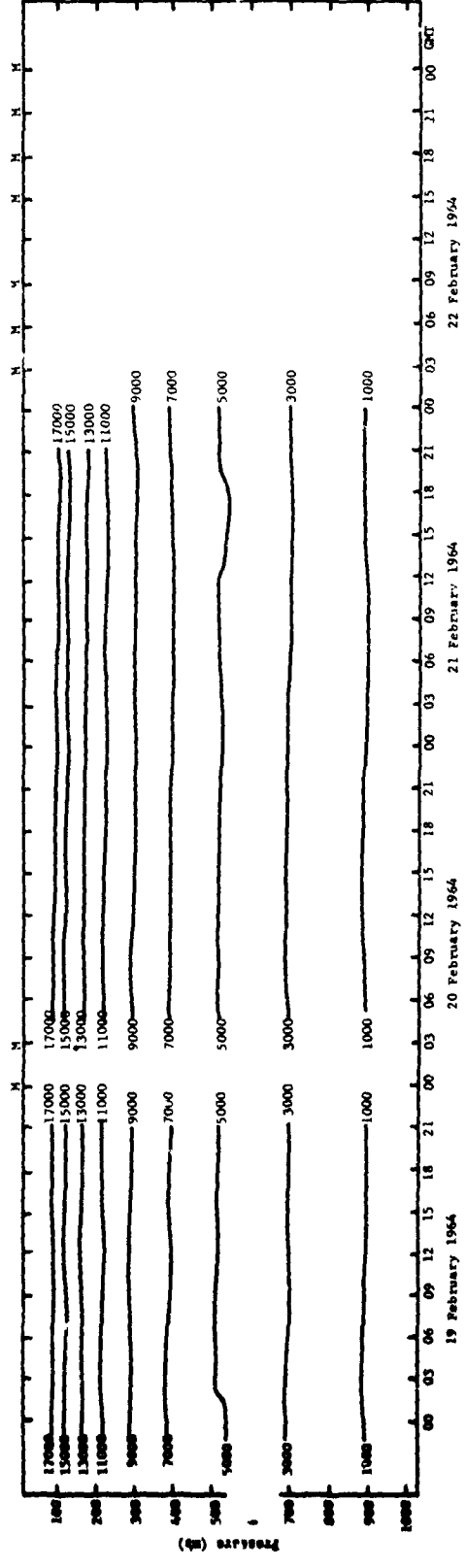


Wind Speed (m/sec) for Huntington, West Virginia, Station Number 33002



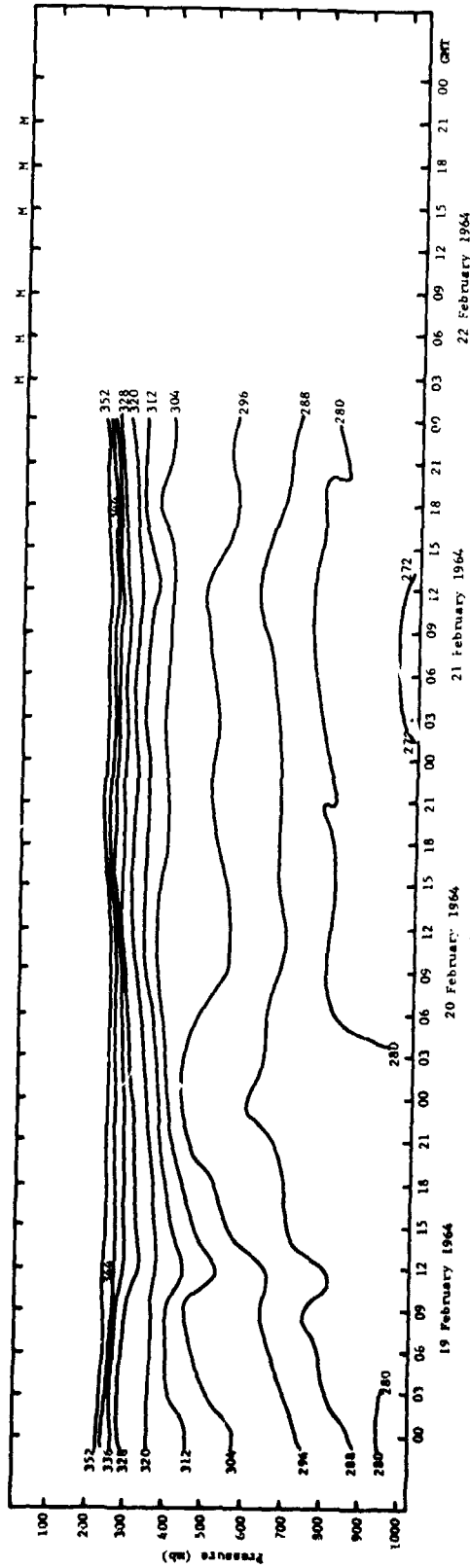
Relative Humidity (%) for Huntington, West Virginia, Station Number 33002



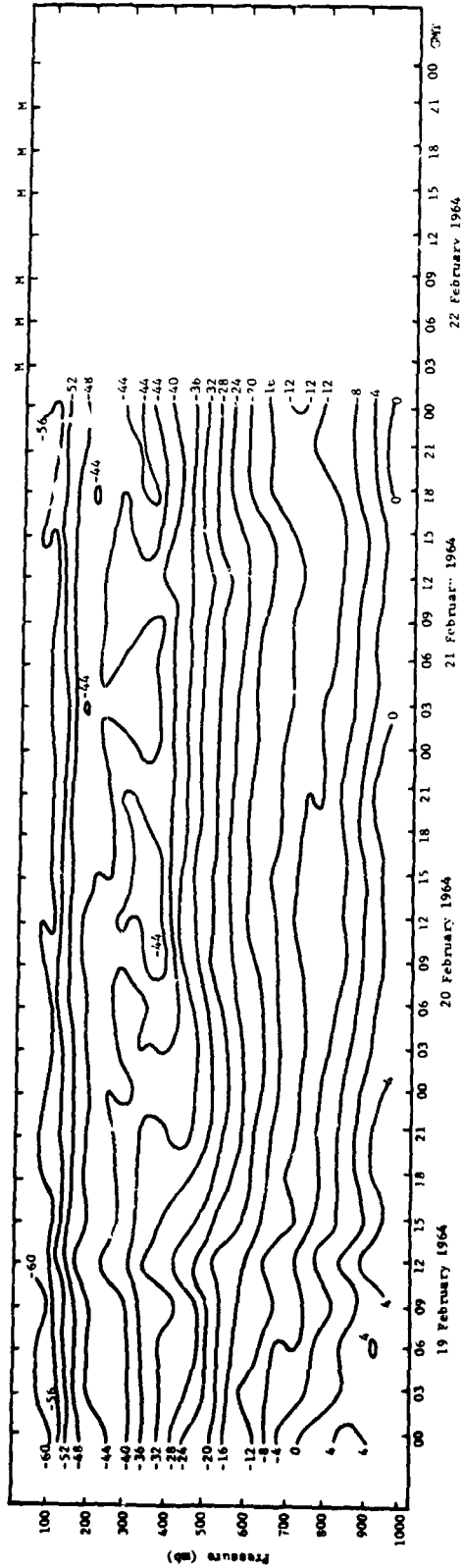


Height (gpm) for Huntington, West Virginia, Station Number 33002

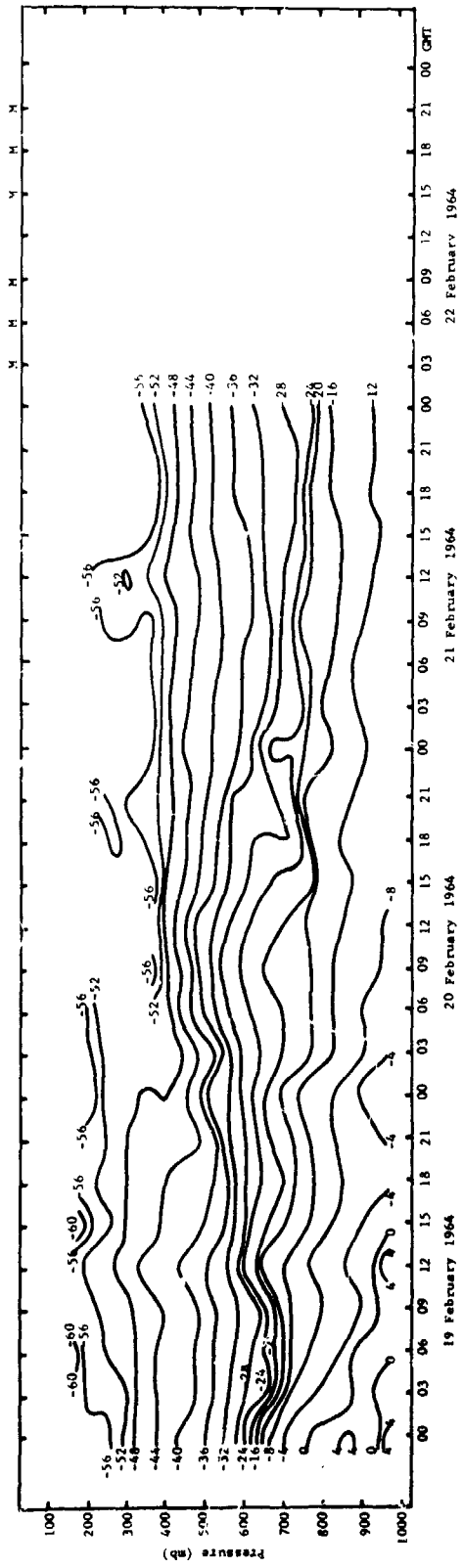
Station Number 33003
Greensboro, North Carolina



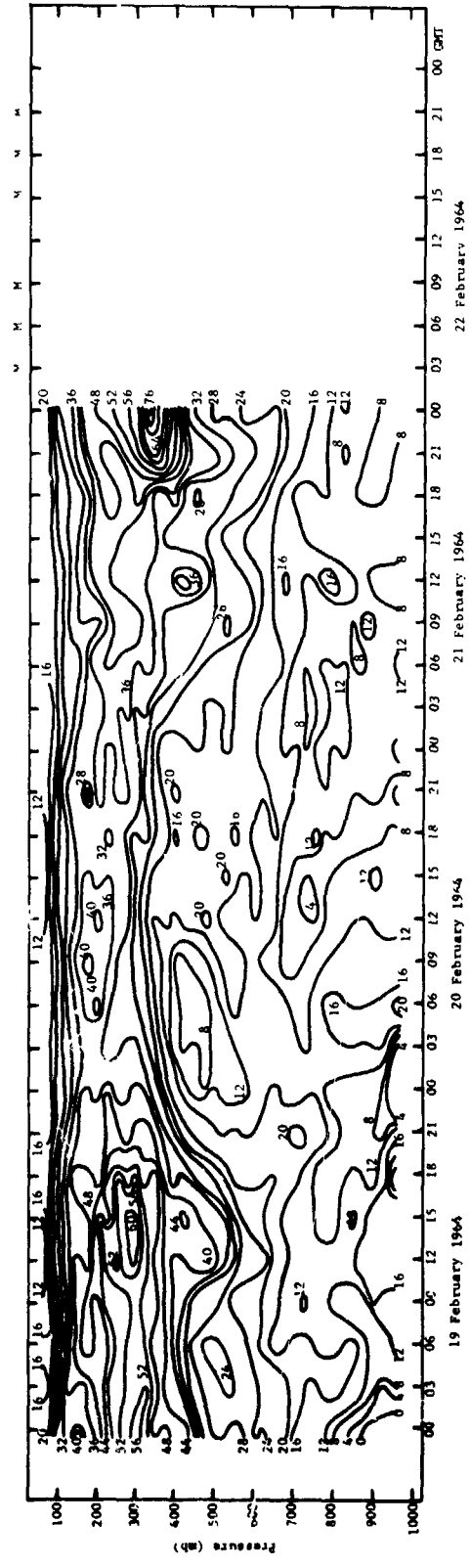
Potential Temperature (K) for Greensboro, North Carolina, Station Number 33003



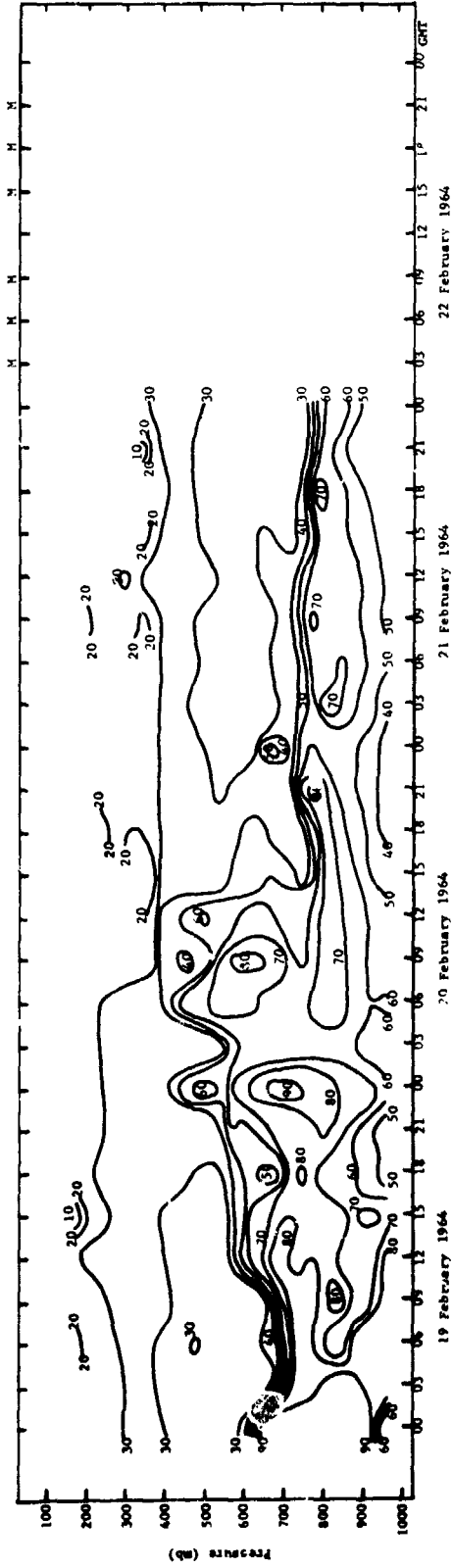
Temperature (C) for Greensboro, North Carolina, Station Number 33003



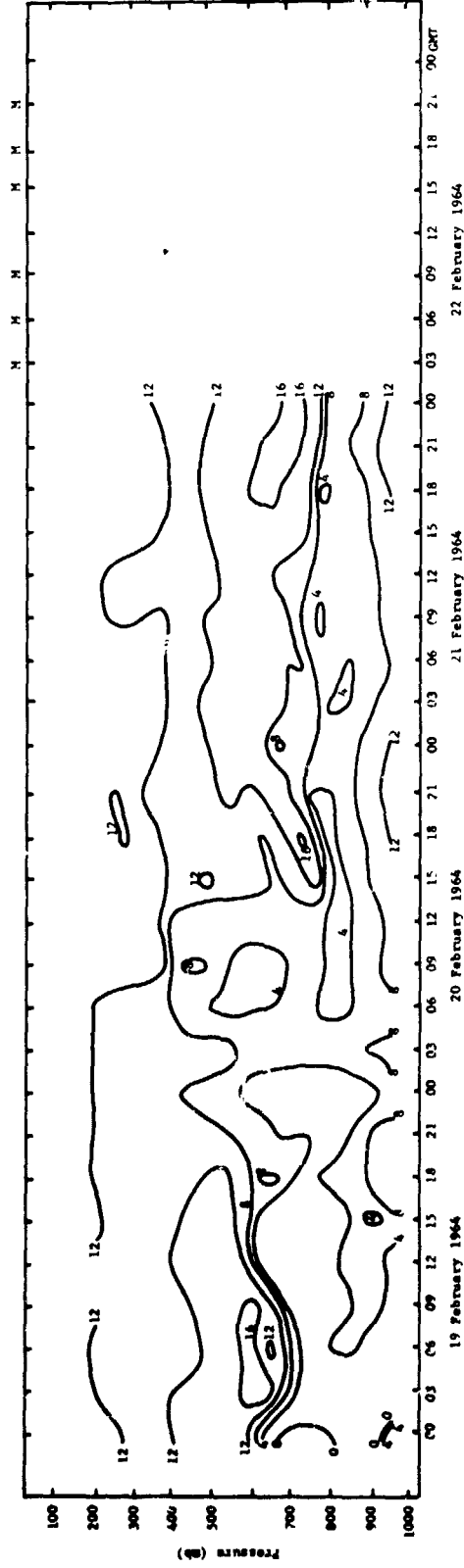
Dewpoint Temperature ($^{\circ}\text{C}$) for Greensboro, North Carolina, Station Number 33003



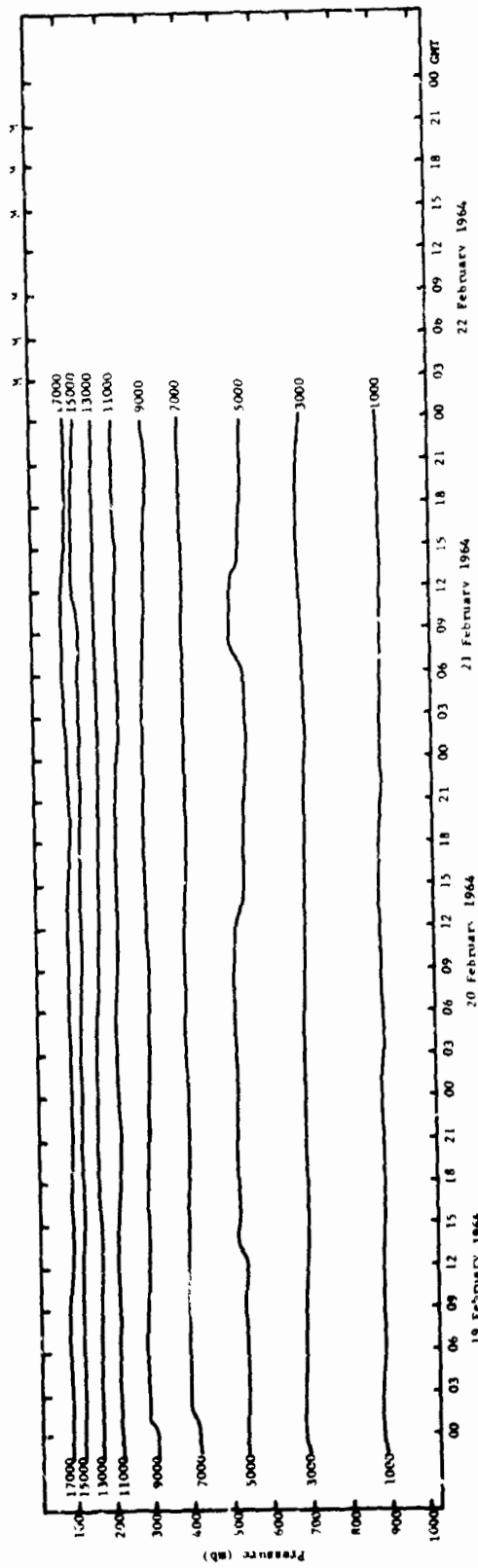
Zonal Wind Component (m/sec) for Greensboro, North Carolina, Station Number 33003



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

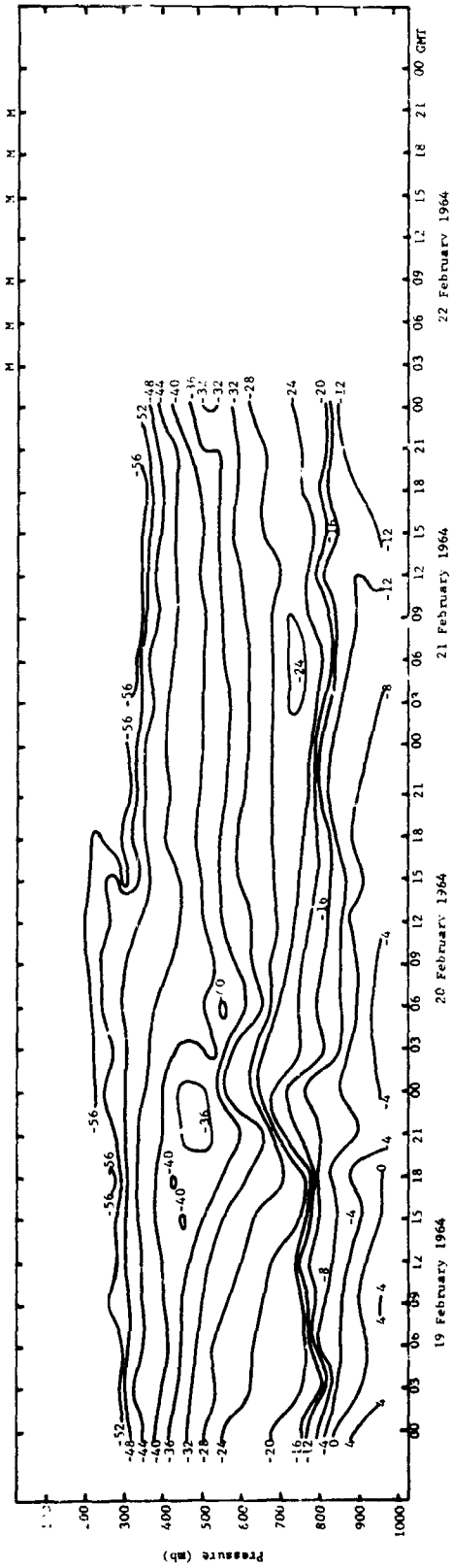


Dewpoint Depression (°C) for Greensboro, North Carolina, Station Number 33003

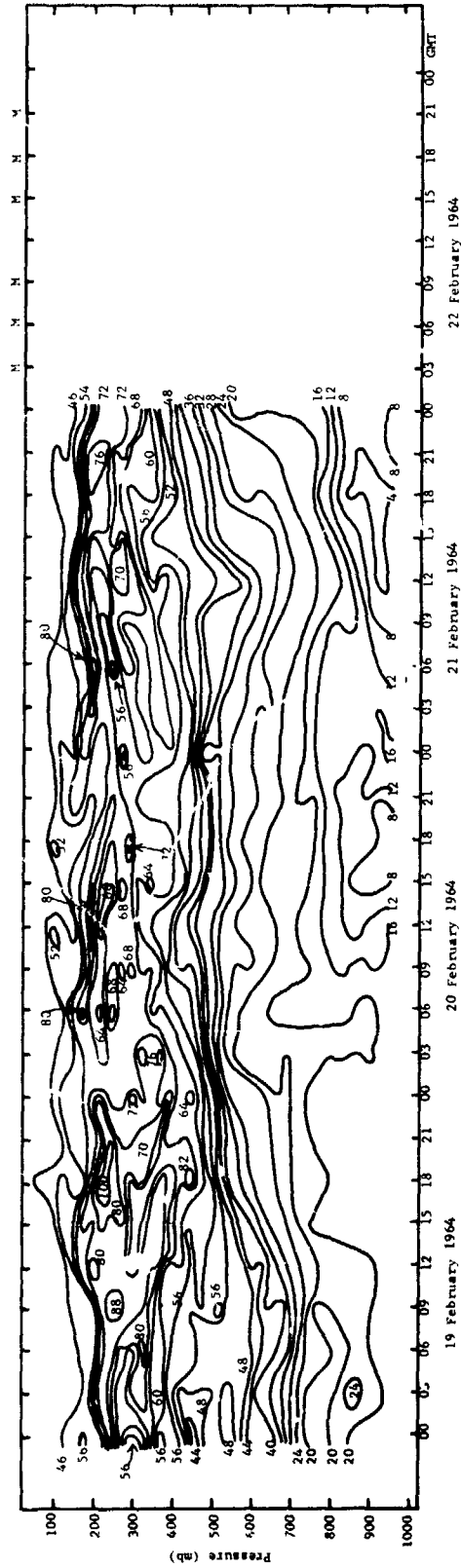


Height (gpm) for Greensboro, North Carolina, Station Number 33003

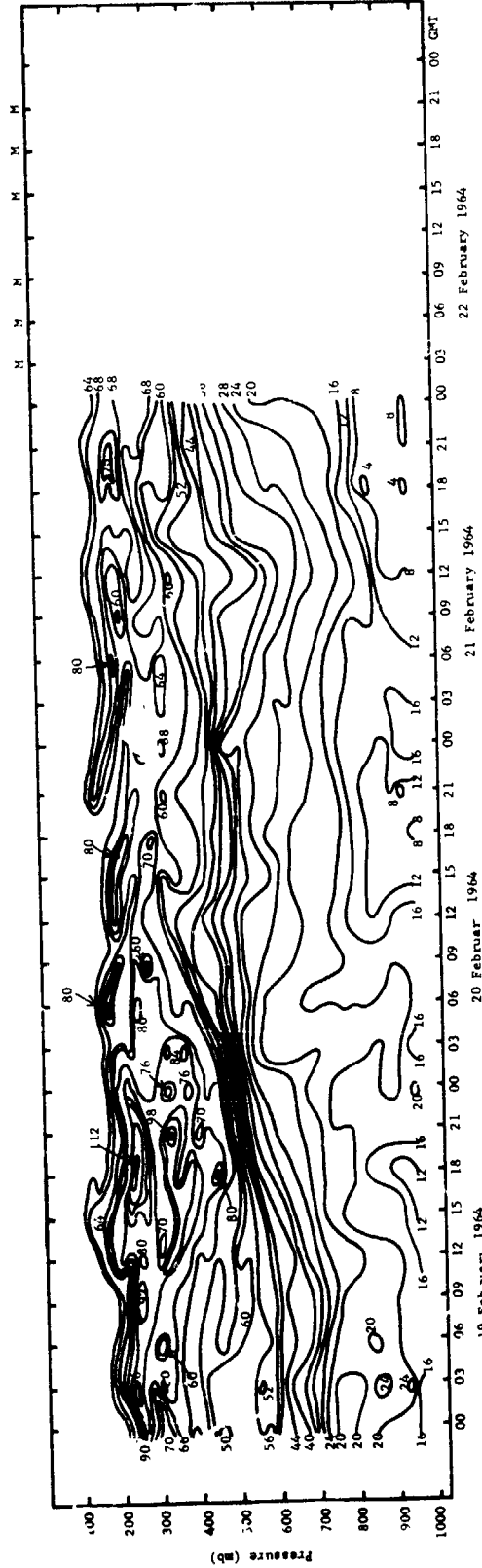
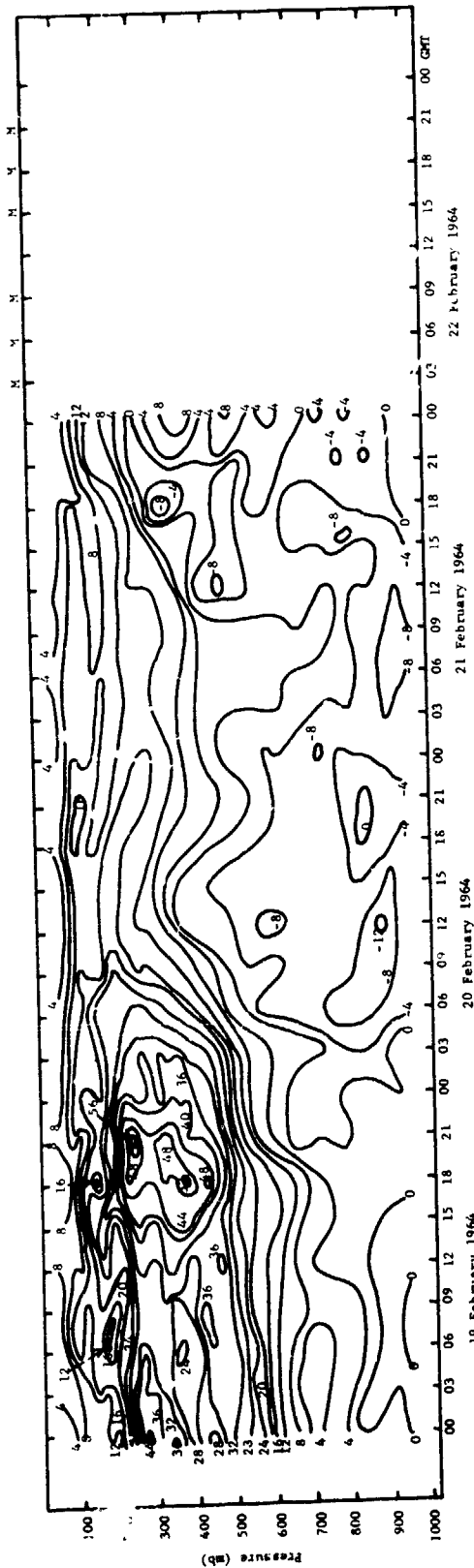
Station Number 33004
Charleston, South Carolina



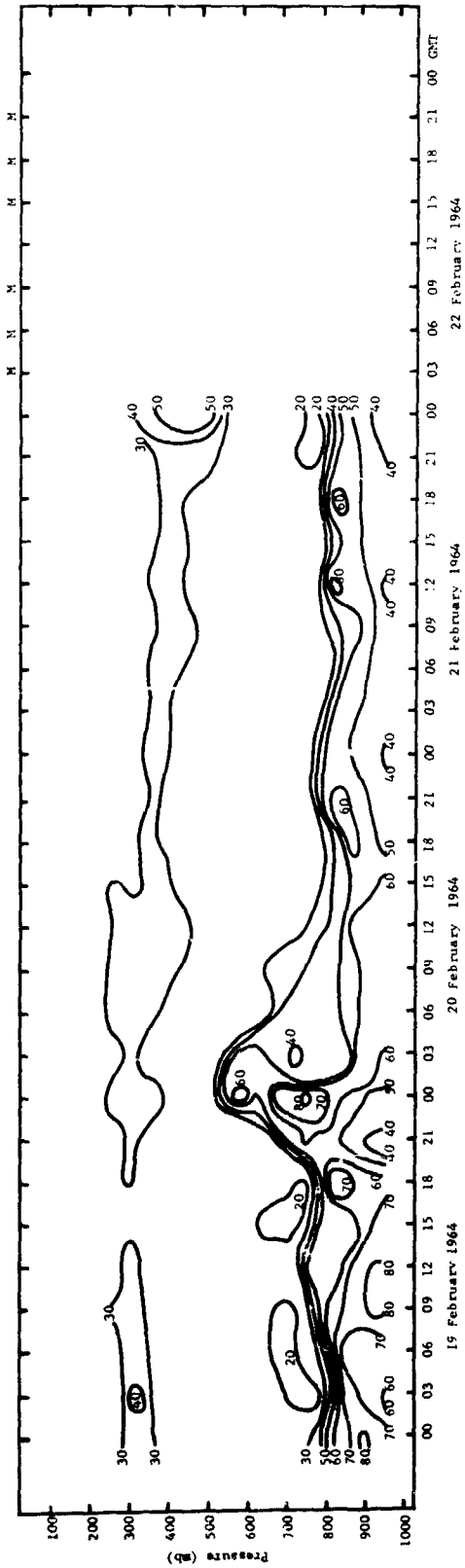
Dewpoint Temperature ($^{\circ}$ C) for Charleston South Carolina, Station Number 33004



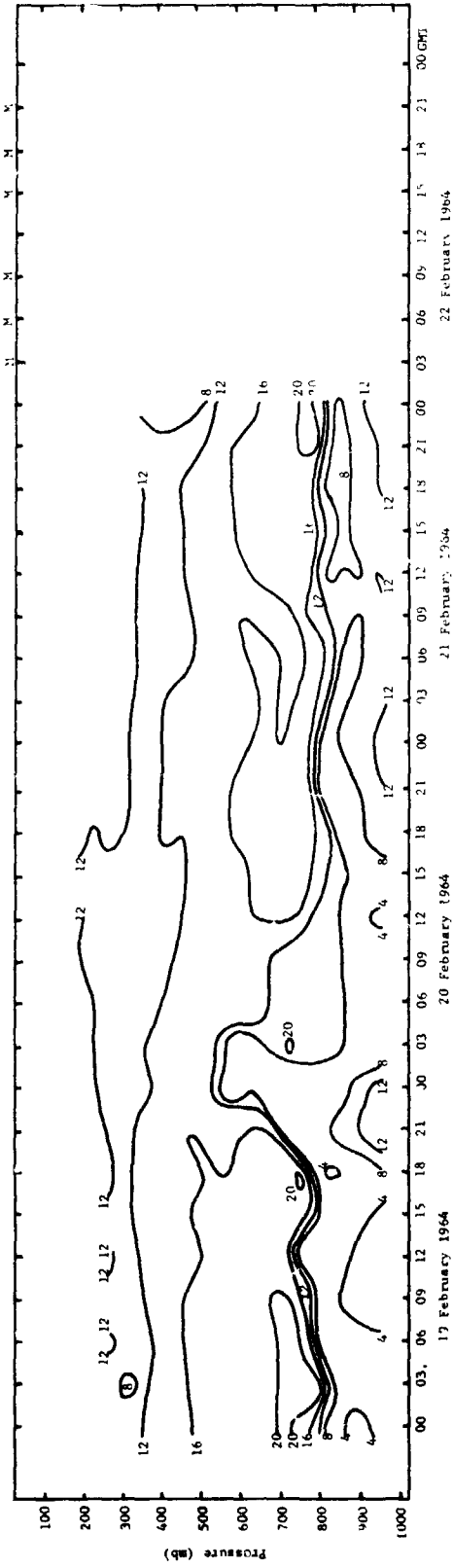
NOTE: Interval not constant



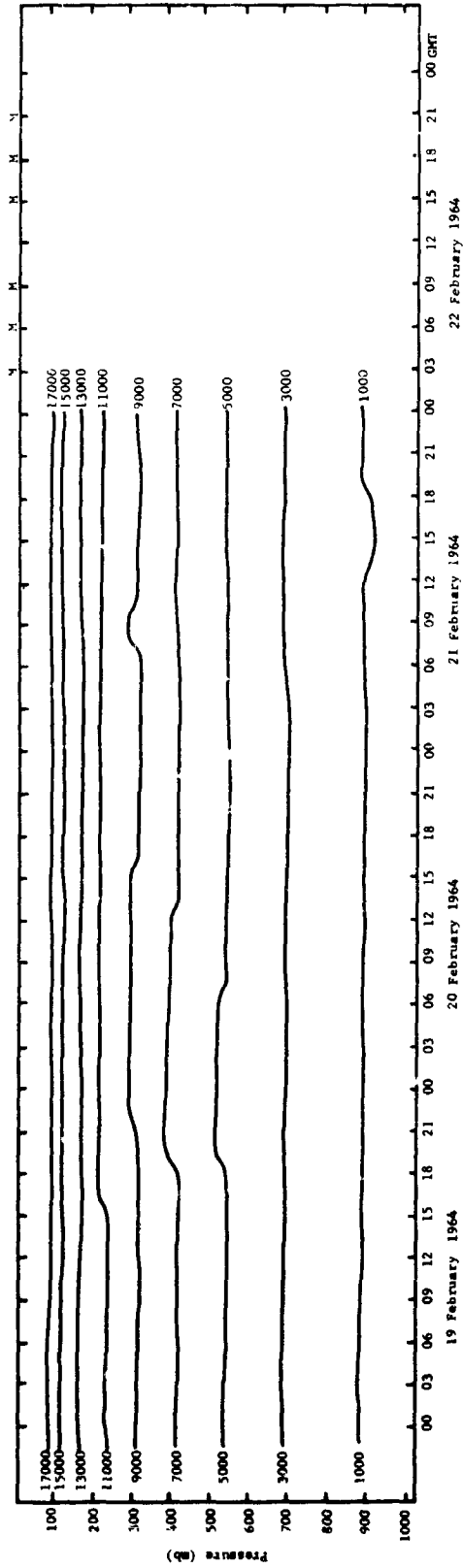
NOTE: Interval not constant.



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



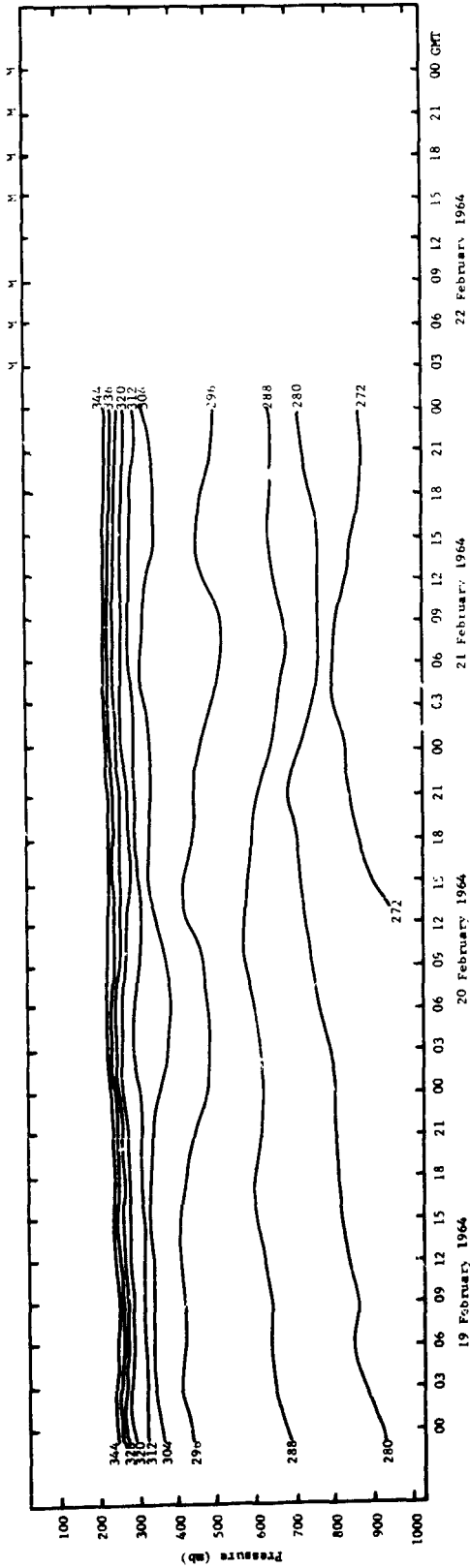
Dewpoint Depression (°C) for Charleston, South Carolina, Station Number 33004



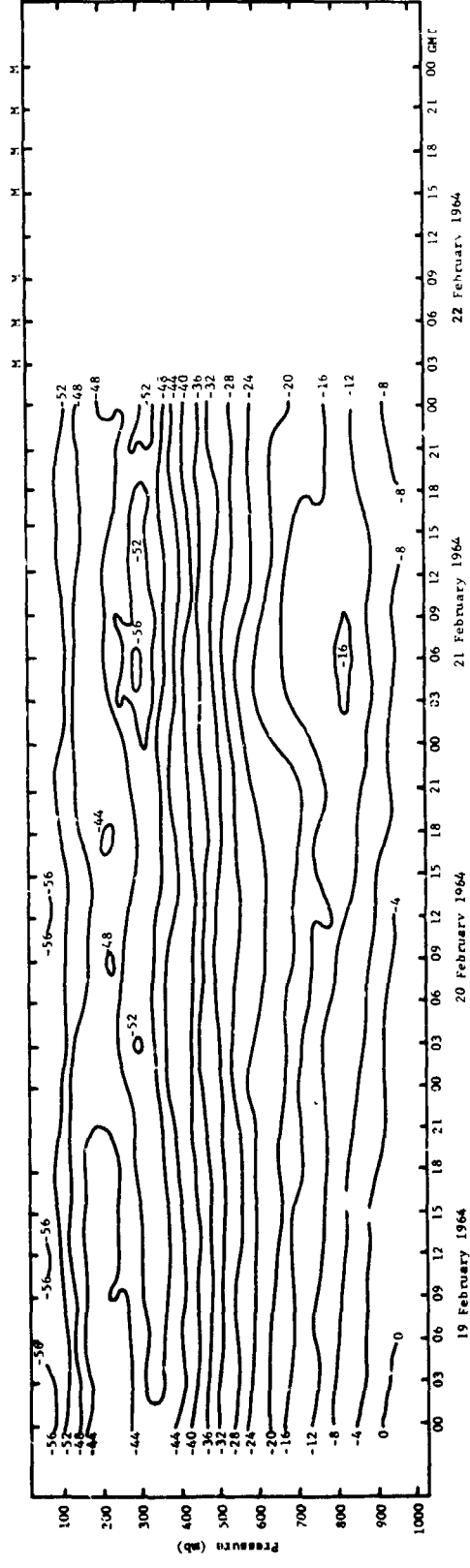
Height (gpm) for Charleston, South Carolina, Station Number 33004

Station Number 33005

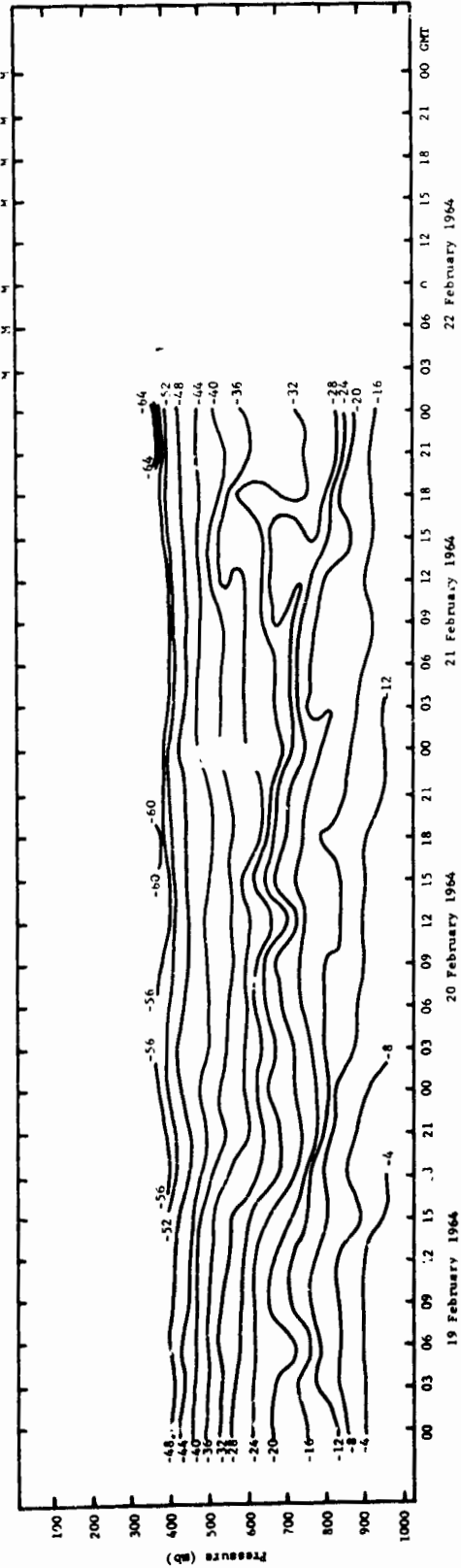
Columbia, Missouri



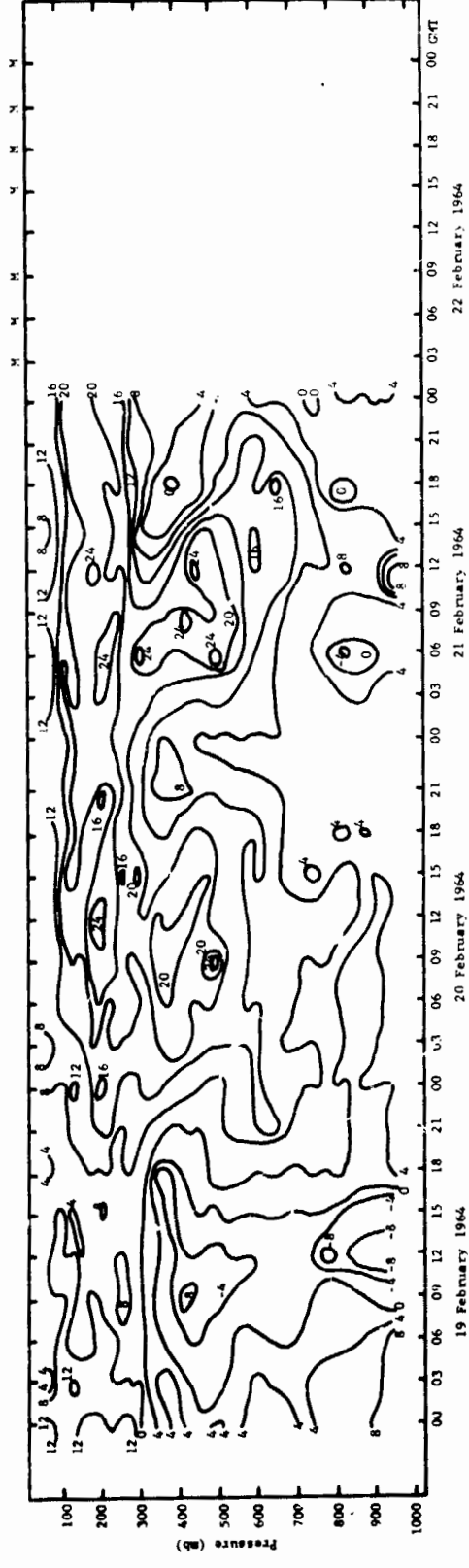
Potential Temperature (K) for Columbia, Missouri, Station Number 33005



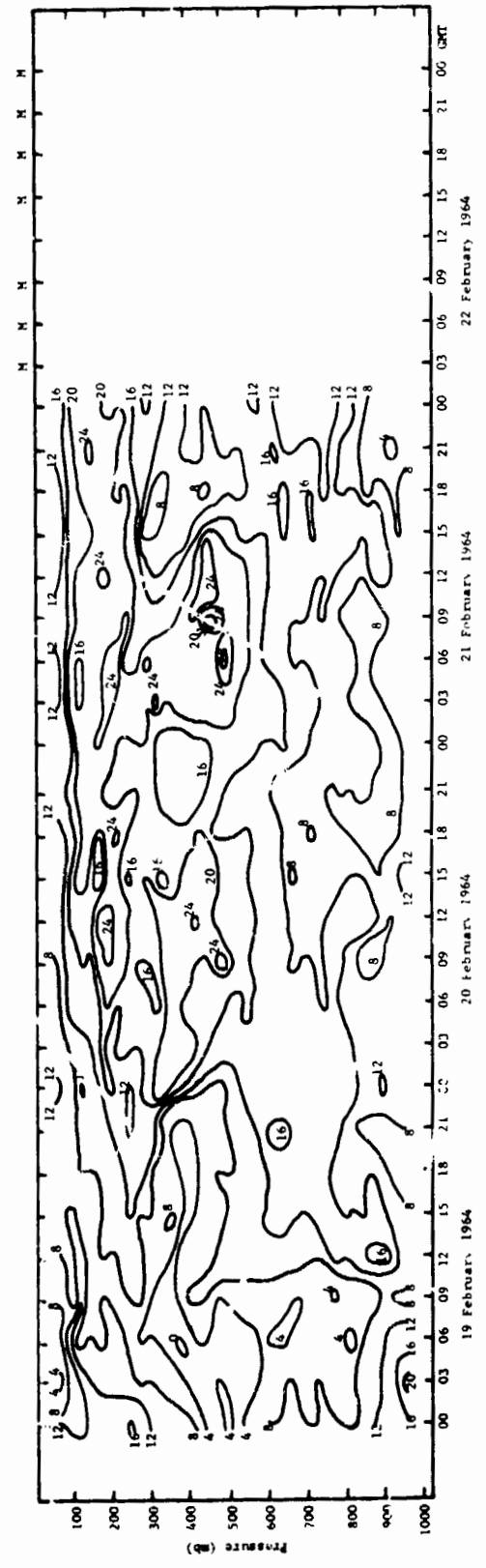
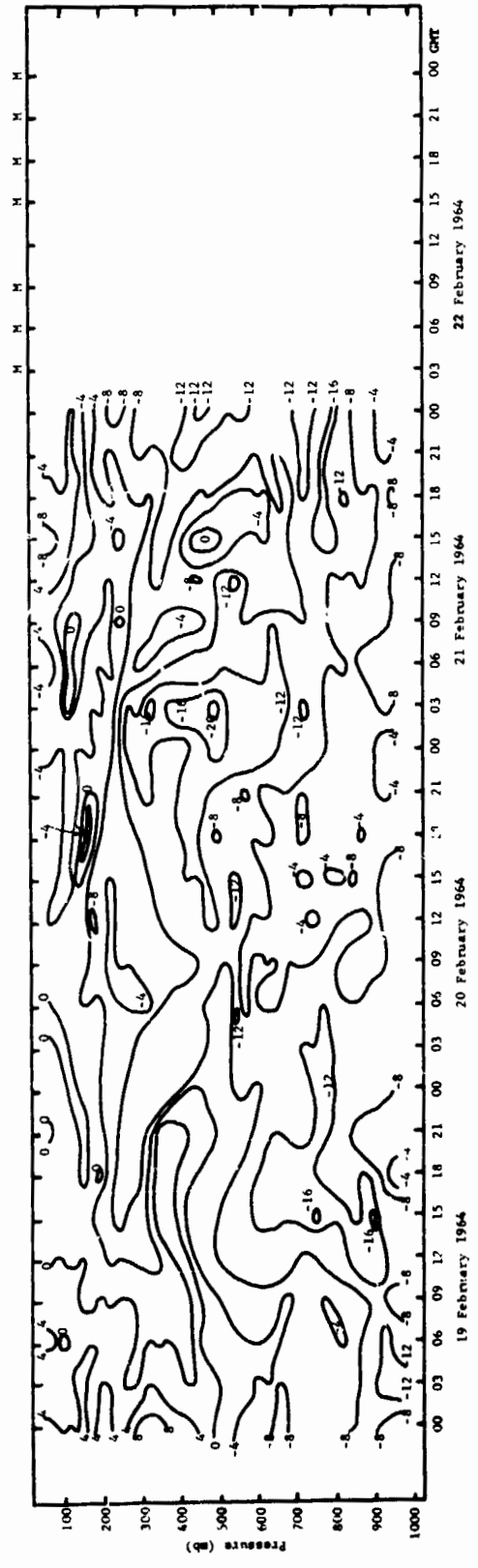
Temperature (C) for Columbia, Missouri, Station Number 33005

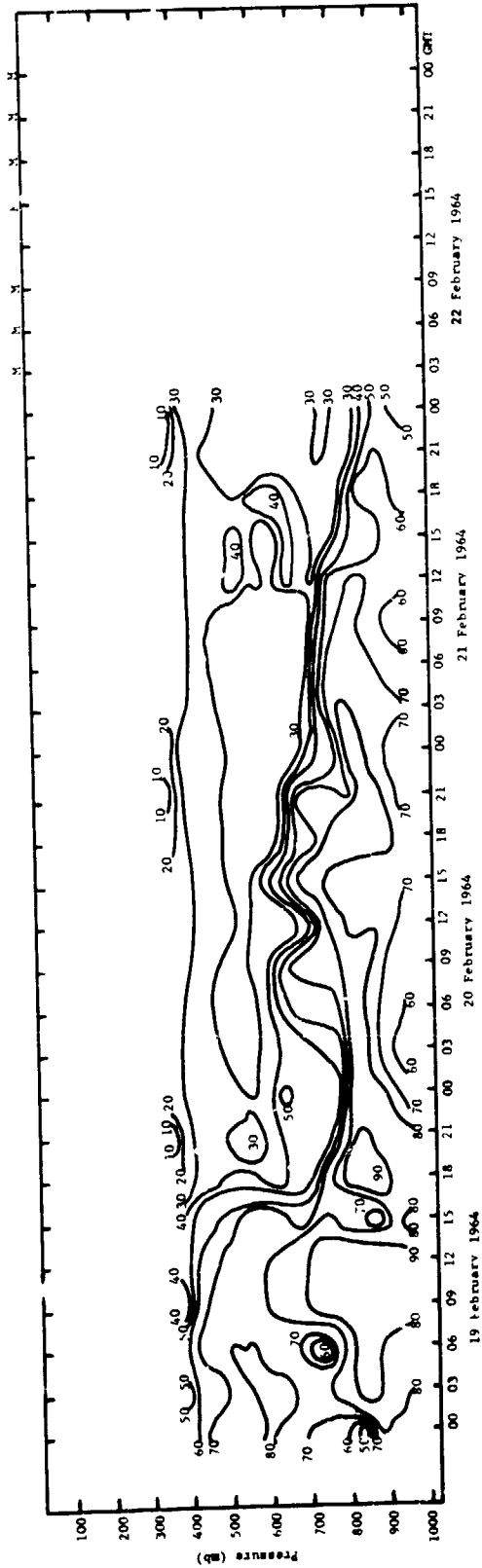


Dewpoint Temperature ($^{\circ}$ C) for Columbia, Missouri, Station Number 33005

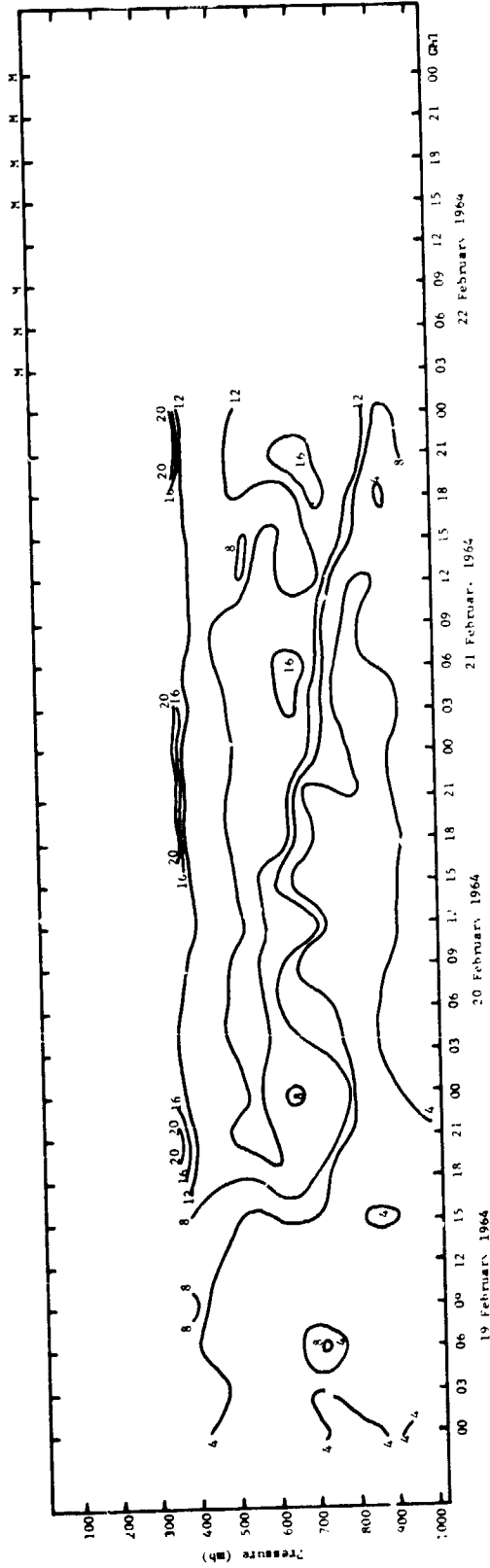


Zonal Wind Component (m/sec) for Columbia, Missouri, Station Number 33005

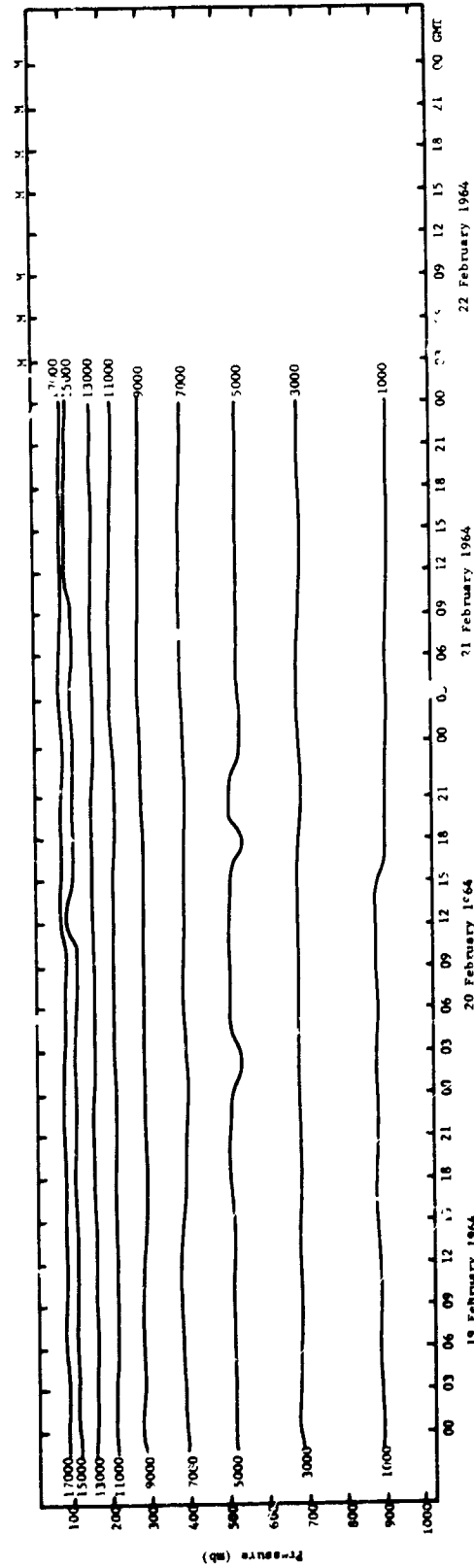




Relative Humidity (%) for Columbia, Missouri, Station Number 33005



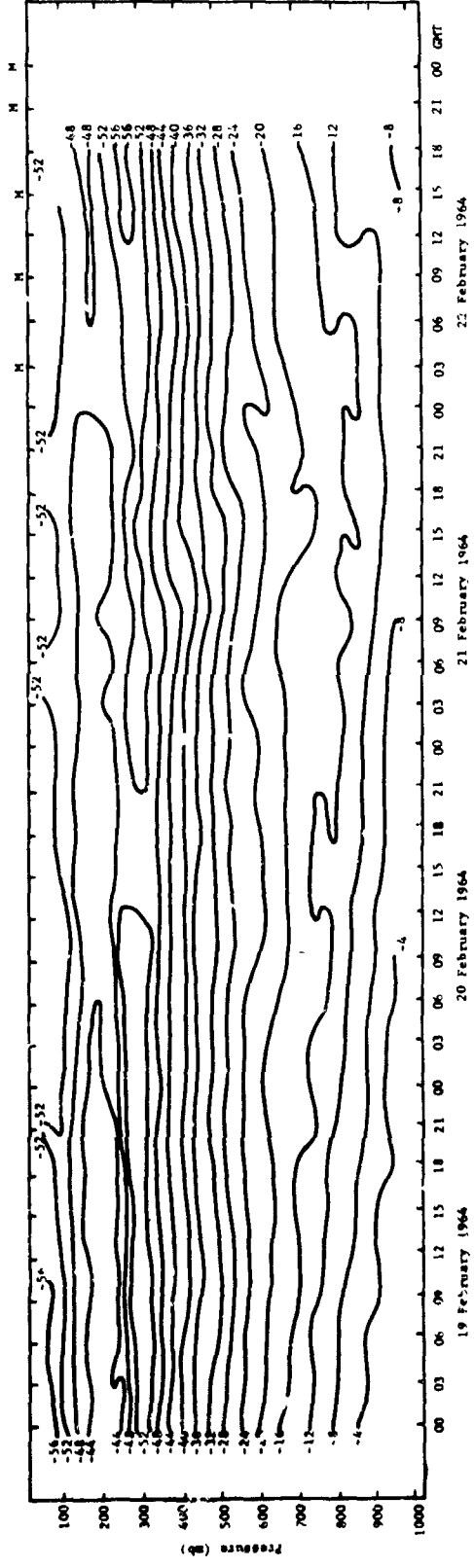
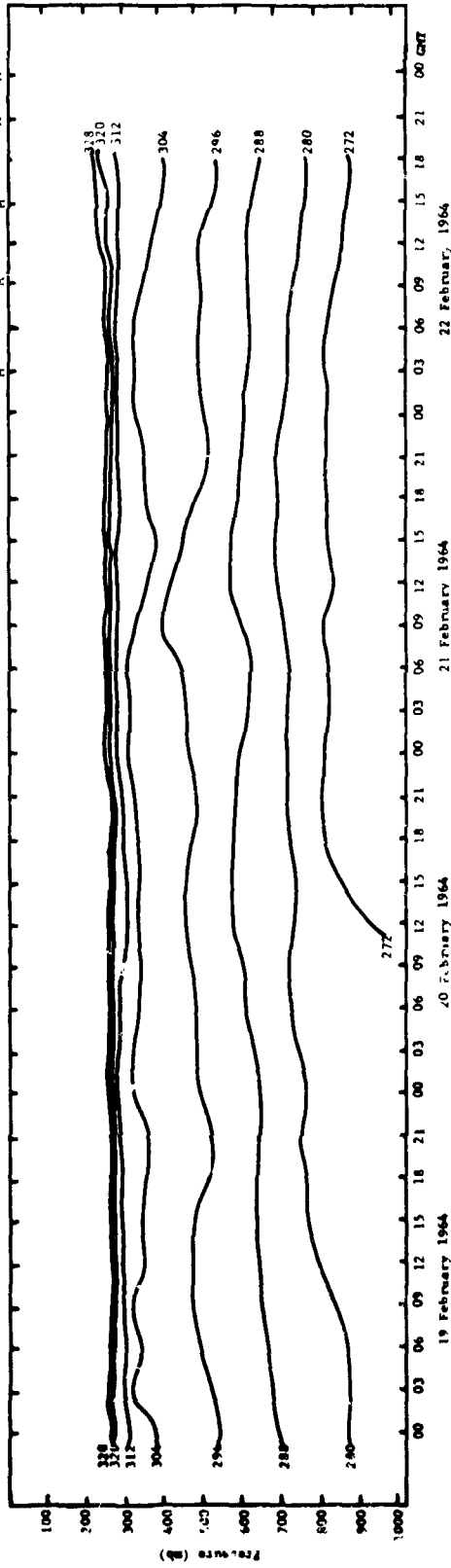
Dewpoint Depressure (°C) for Columbia, Missouri, Station Number 33005

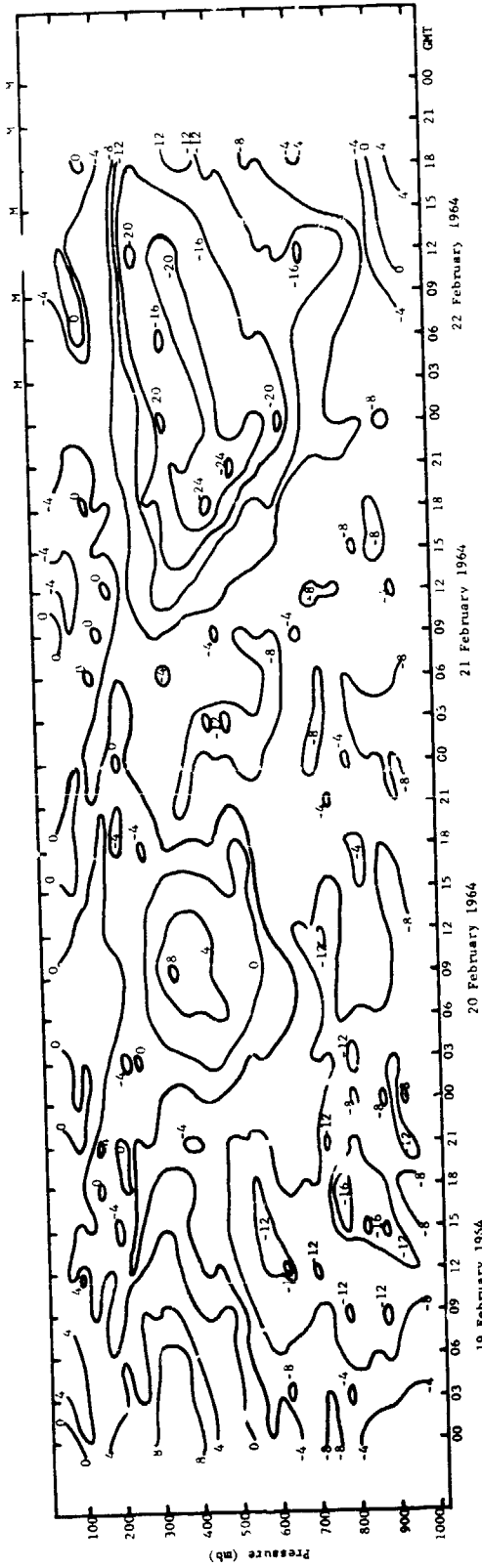


Height (gpm) for Columbia, Missouri, Station Number 33005

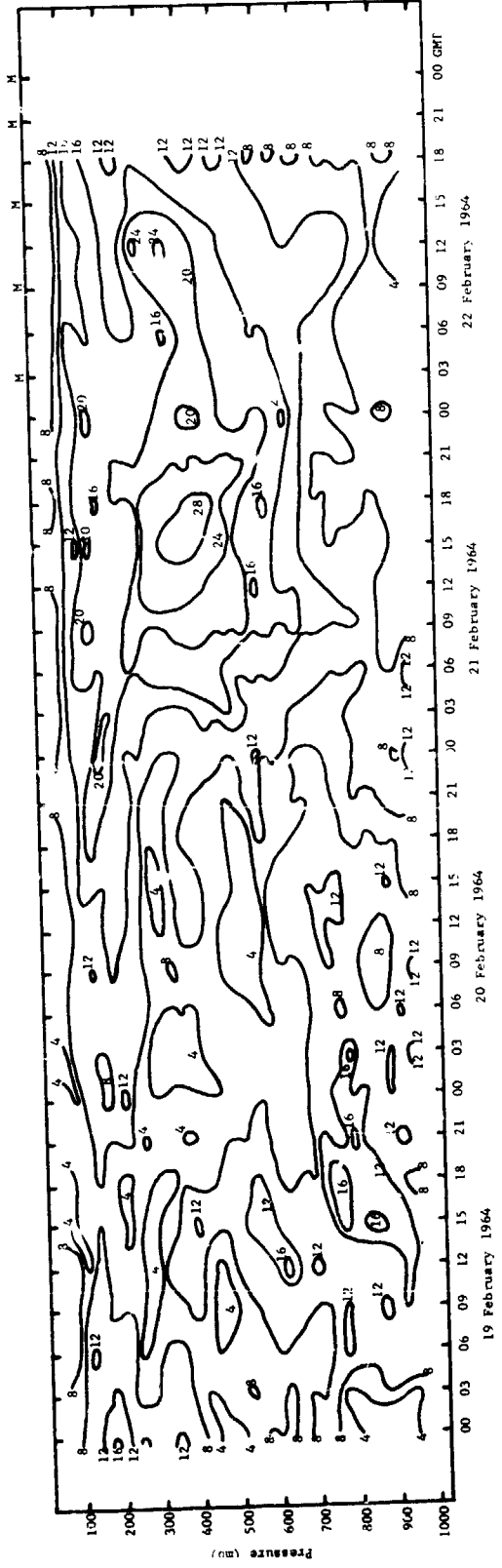
Station Number 33006

Peoria, Illinois

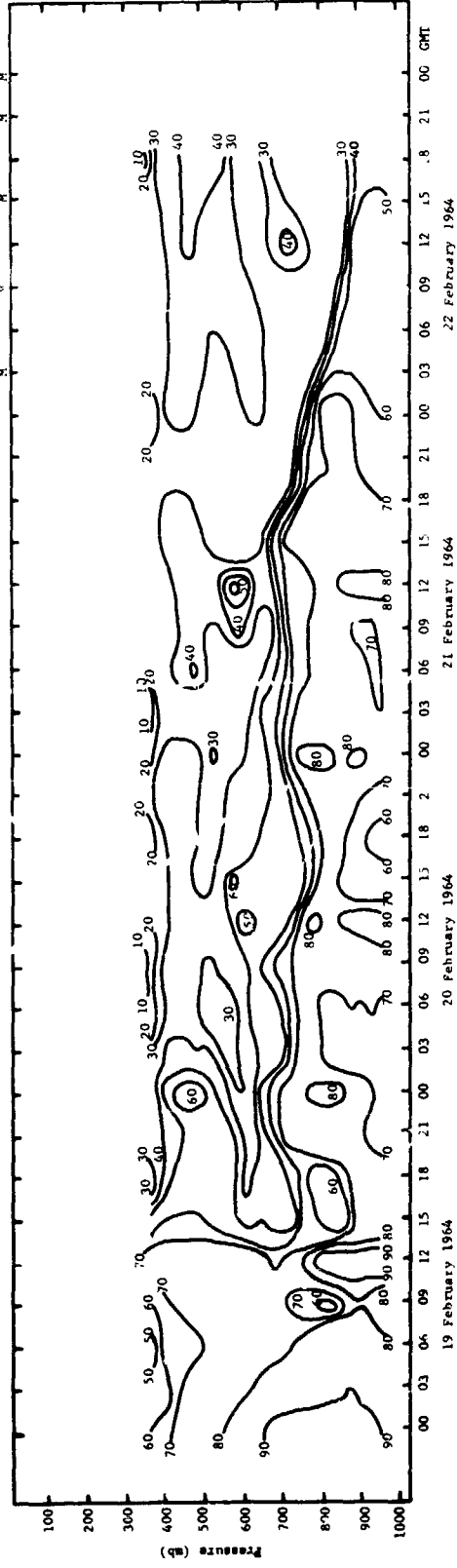




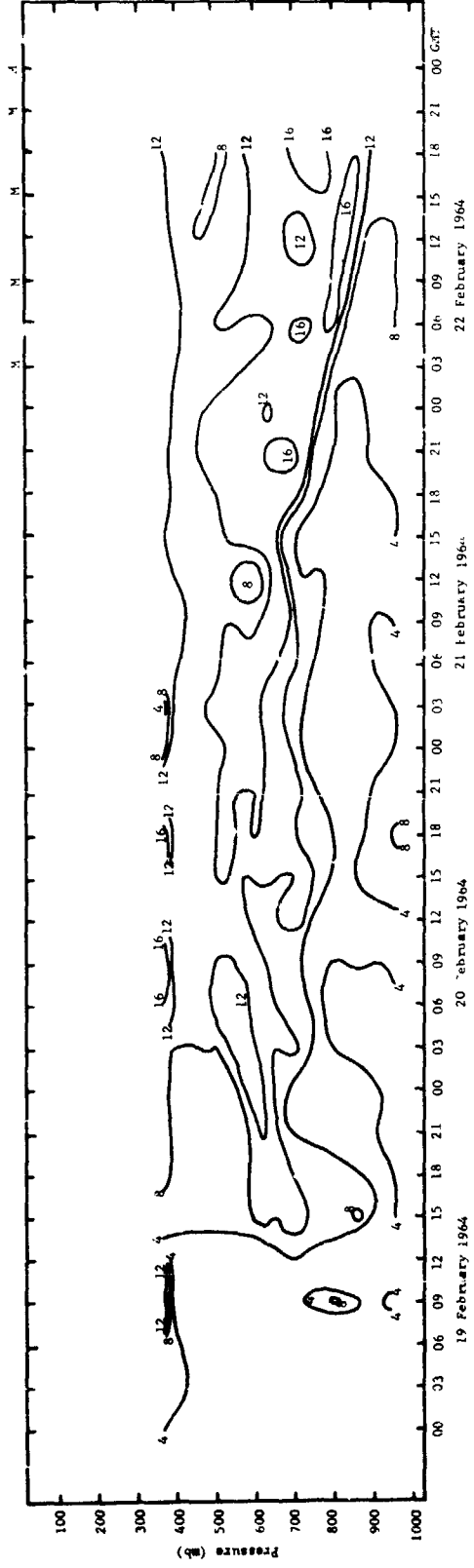
Meridional Wind Component (m/sec) for Peoria, Illinois, Station Number 33006



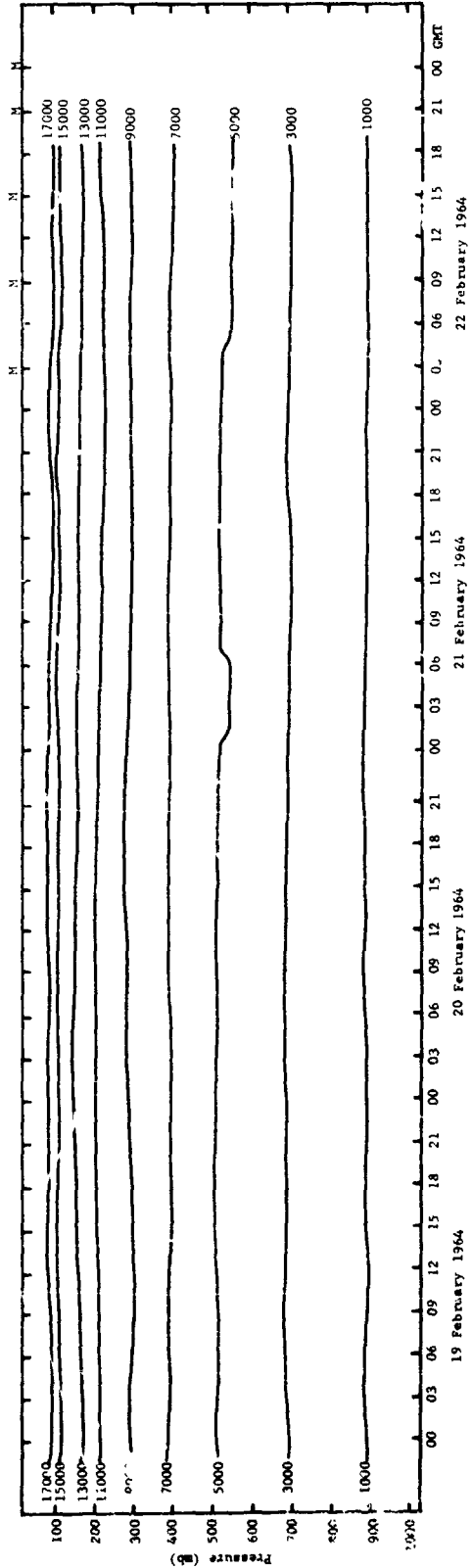
Wind Speed (m/sec) for Peoria, Illinois, Station Number 33006



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

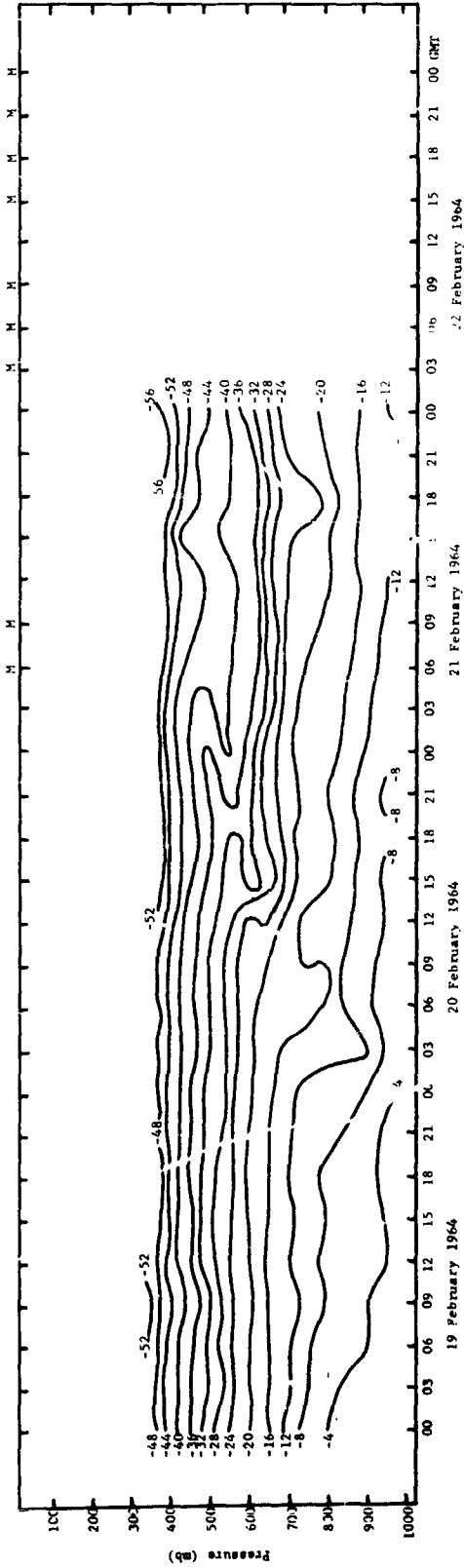


Dewpoint Depression (°C) for Peoria, Illinois, Station Number 33006

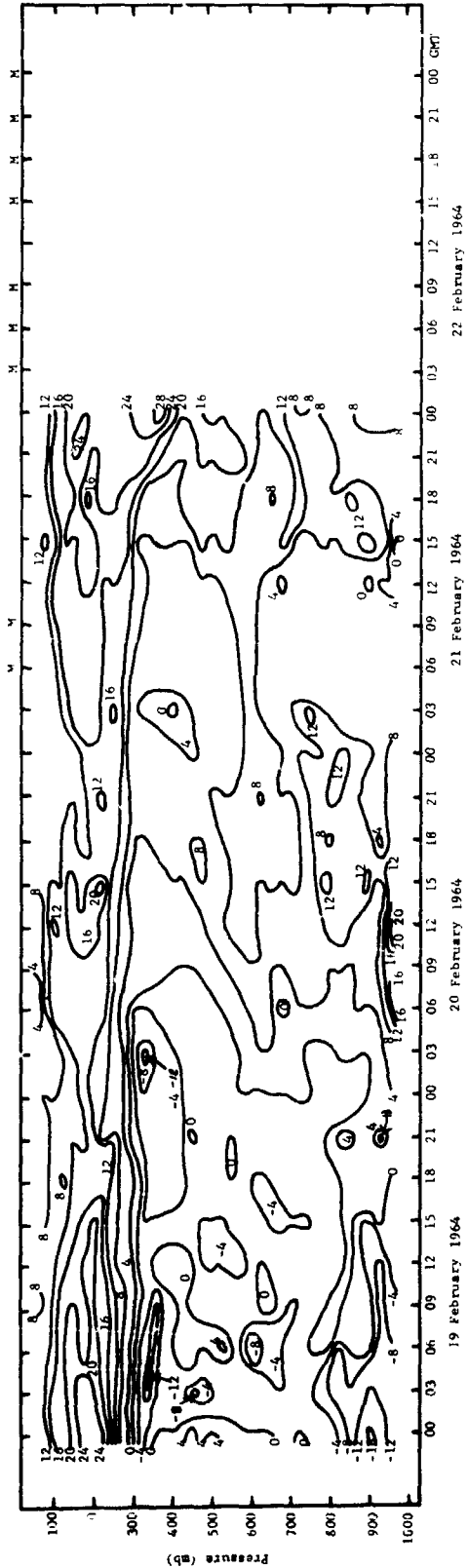


Height (gpm) for Peoria, Illinois, Station Number 33006

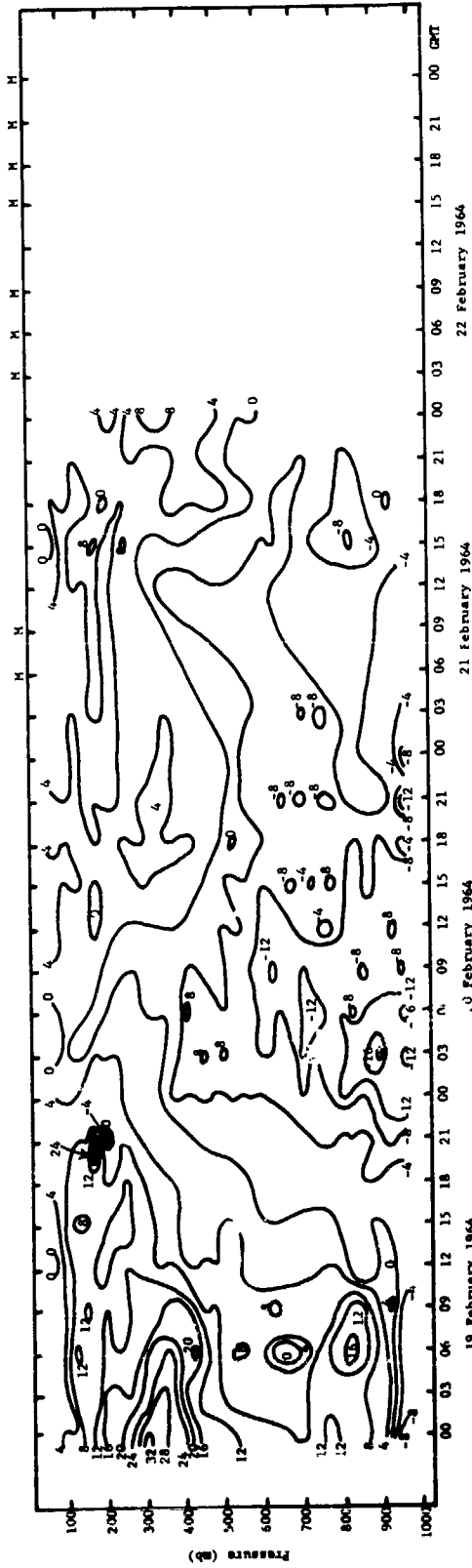
Station Number 33007
Pittsburgh, Pennsylvania



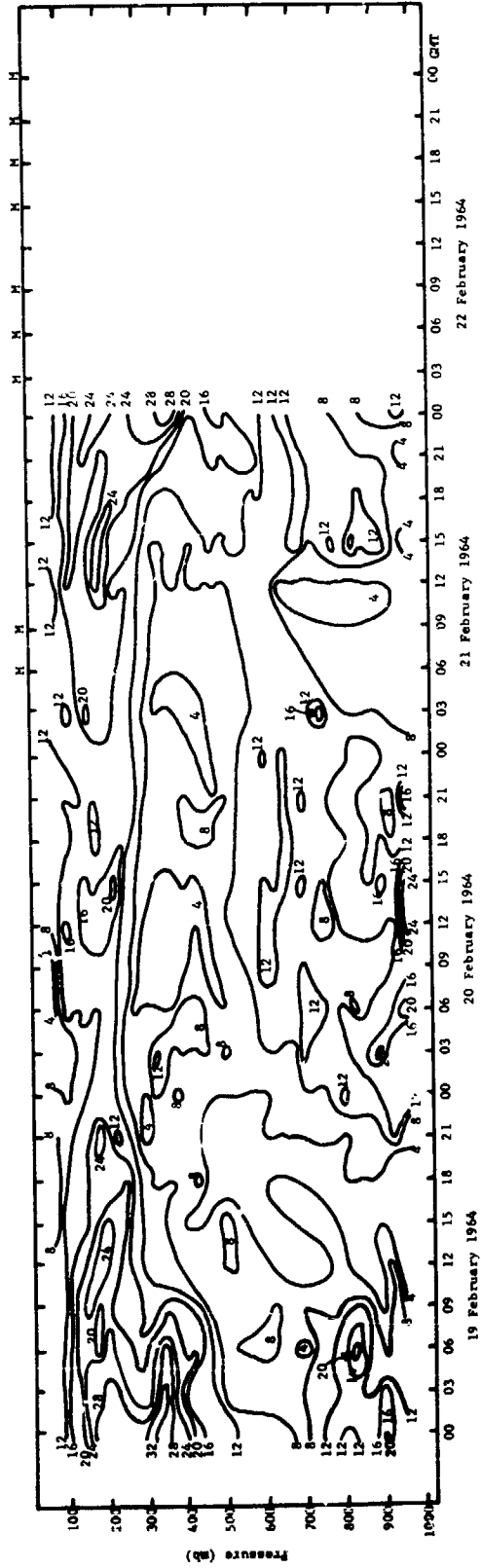
Dewpoint Temperature (°C) for Pittsburgh, Pennsylvania, Station Number 33007



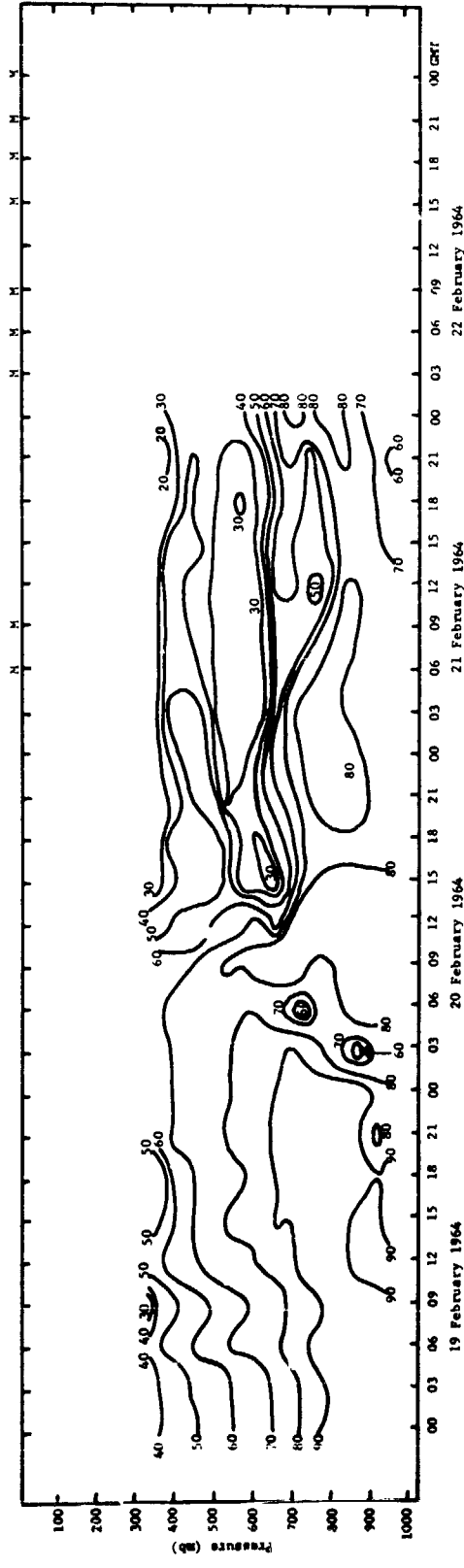
Zonal Wind Component (m/sec) for Pittsburgh, Pennsylvania, Station Number 33007



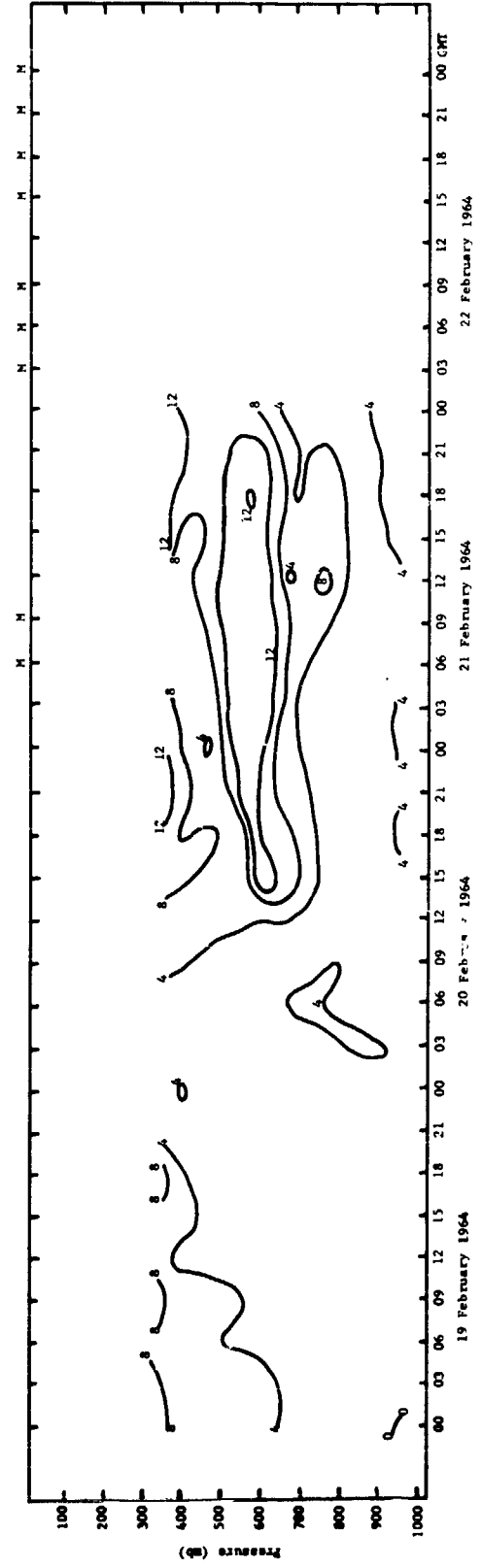
Meridional Wind Component (m/sec) for Pittsburgh, Pennsylvania, Station Number 33007



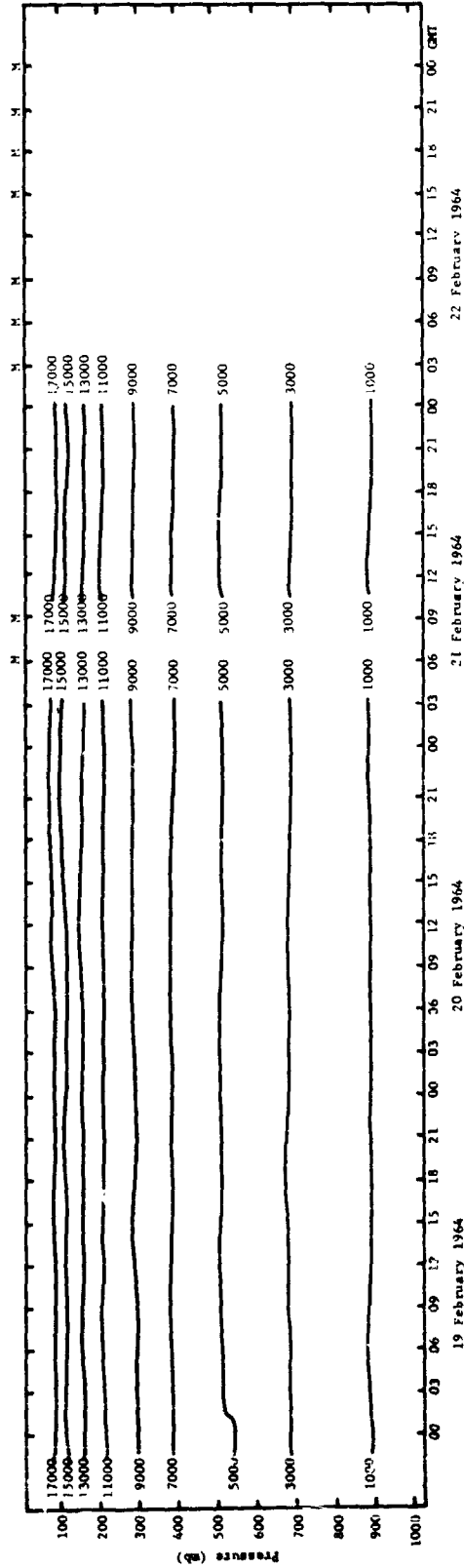
Wind Speed (m/sec) for Pittsburgh, Pennsylvania, Station Number 33007



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



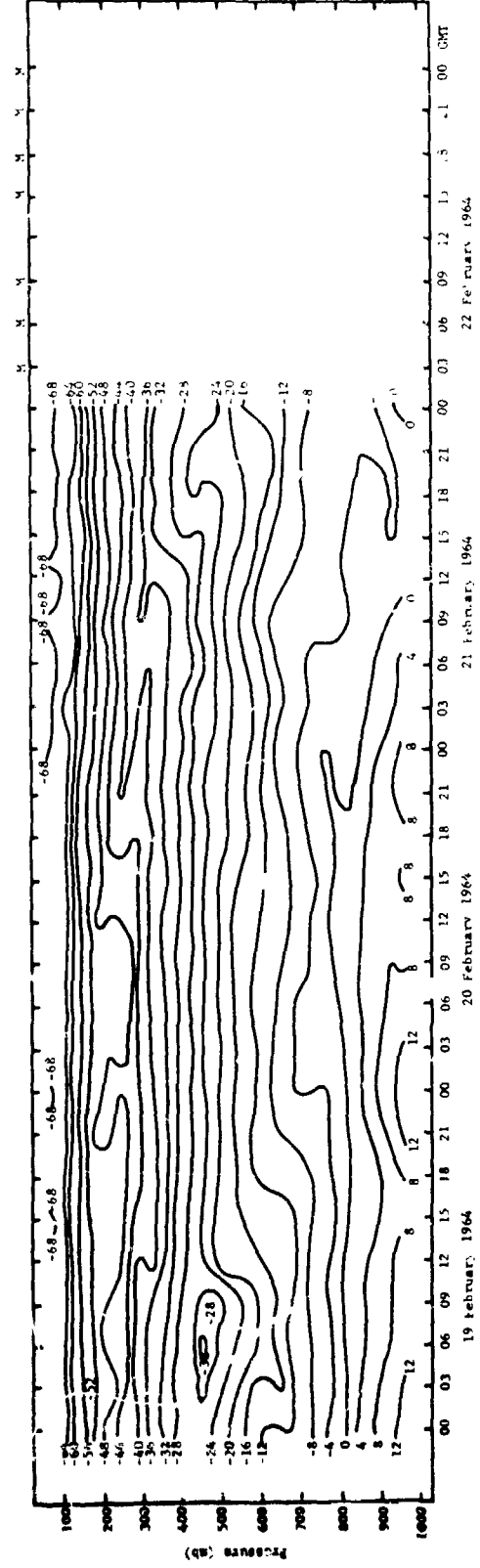
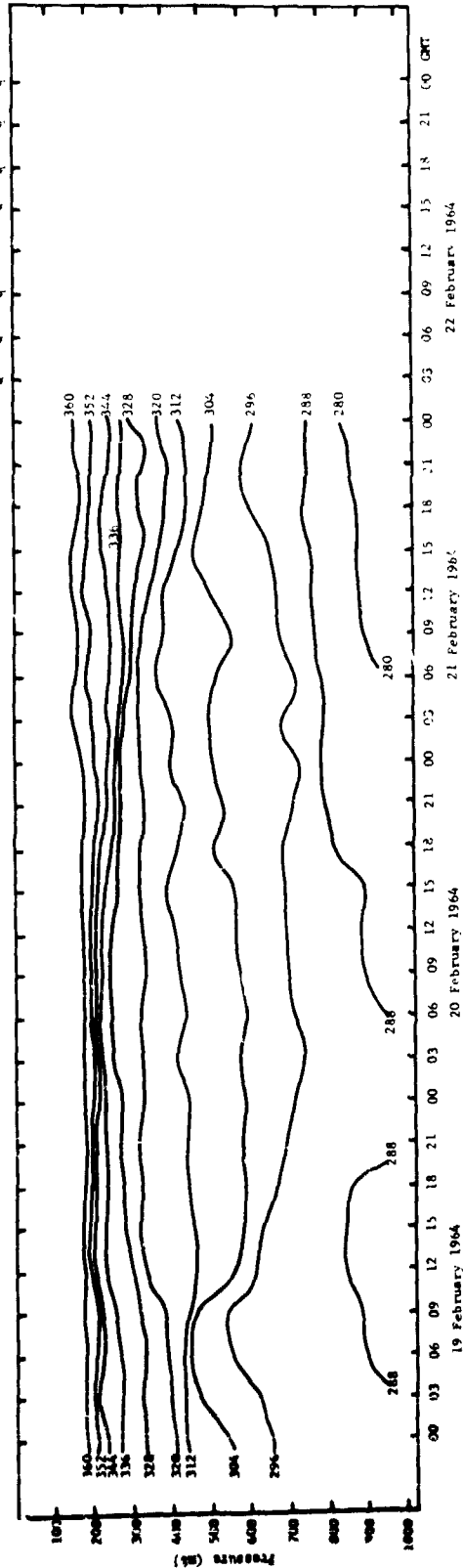
Dewpoint Depression ($^{\circ}$ C) for Pittsburgh, Pennsylvania, Station Number 33007

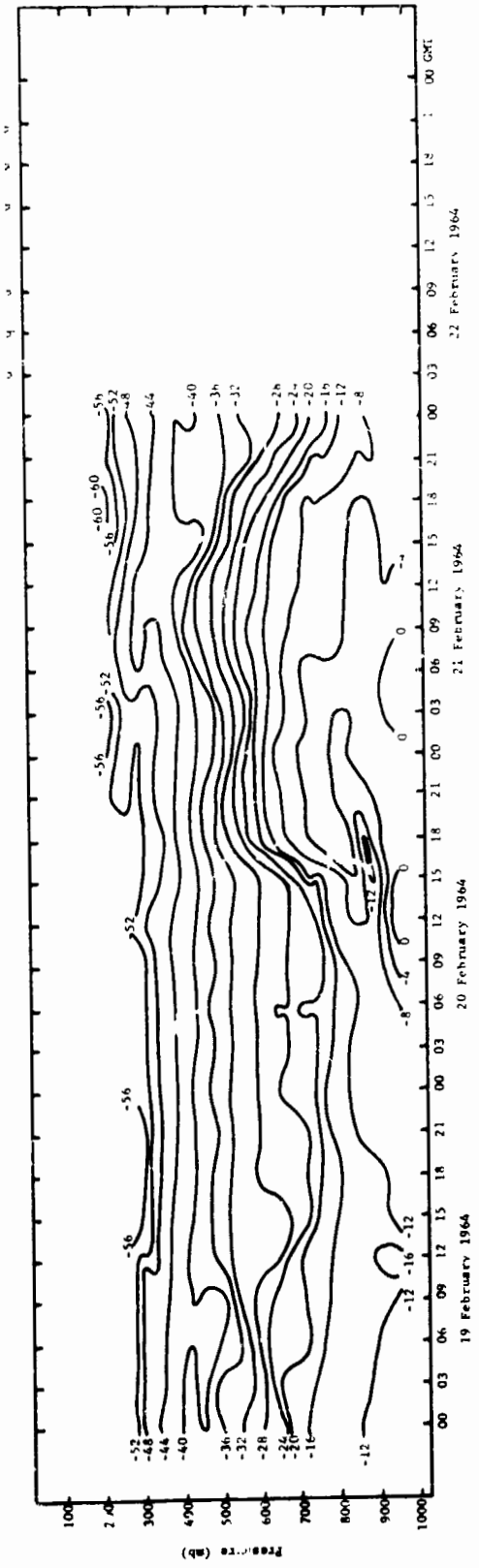


Height (gpm) for Pittsburgh, Pennsylvania, Station Number 33007

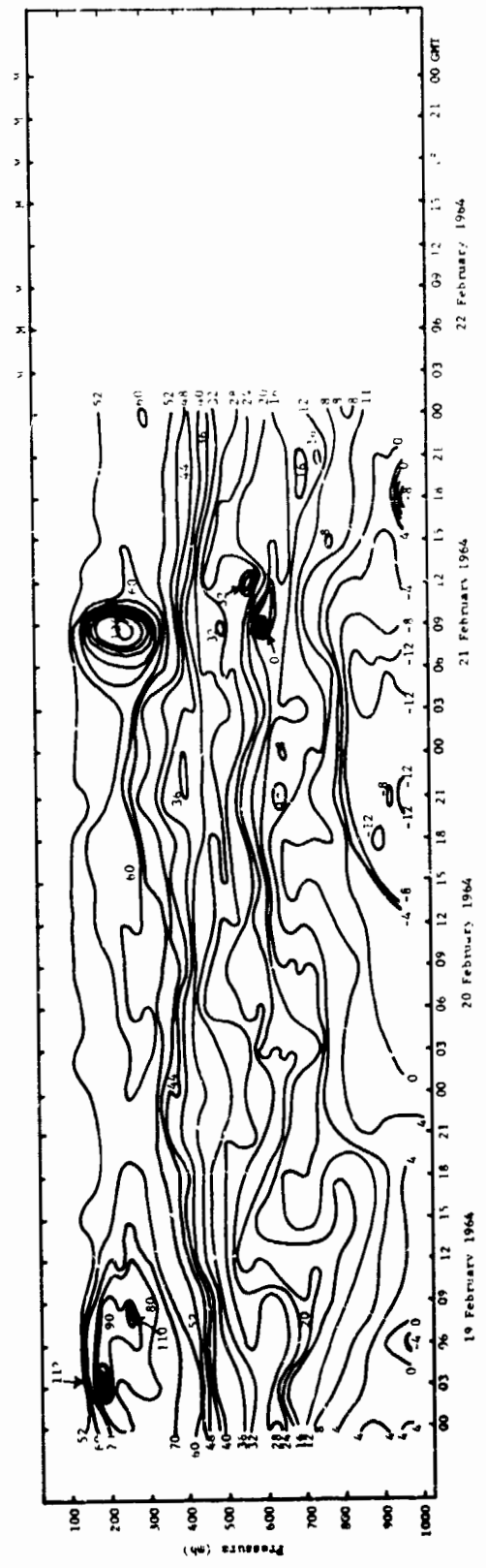
Station Number 33008

San Antonio, Texas

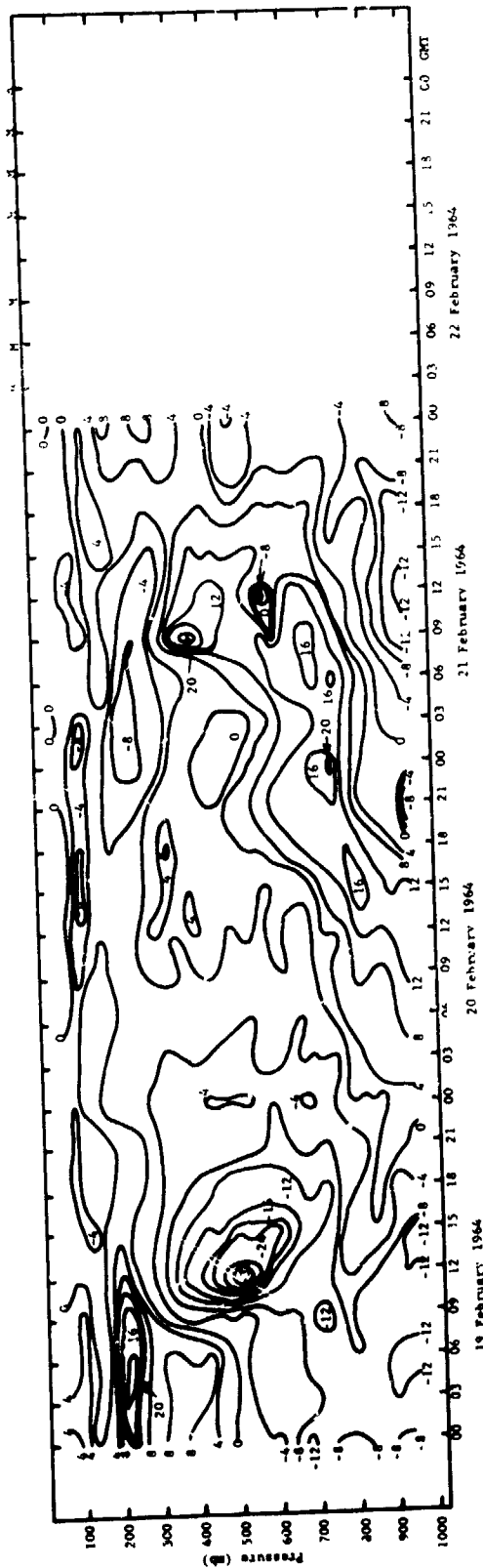




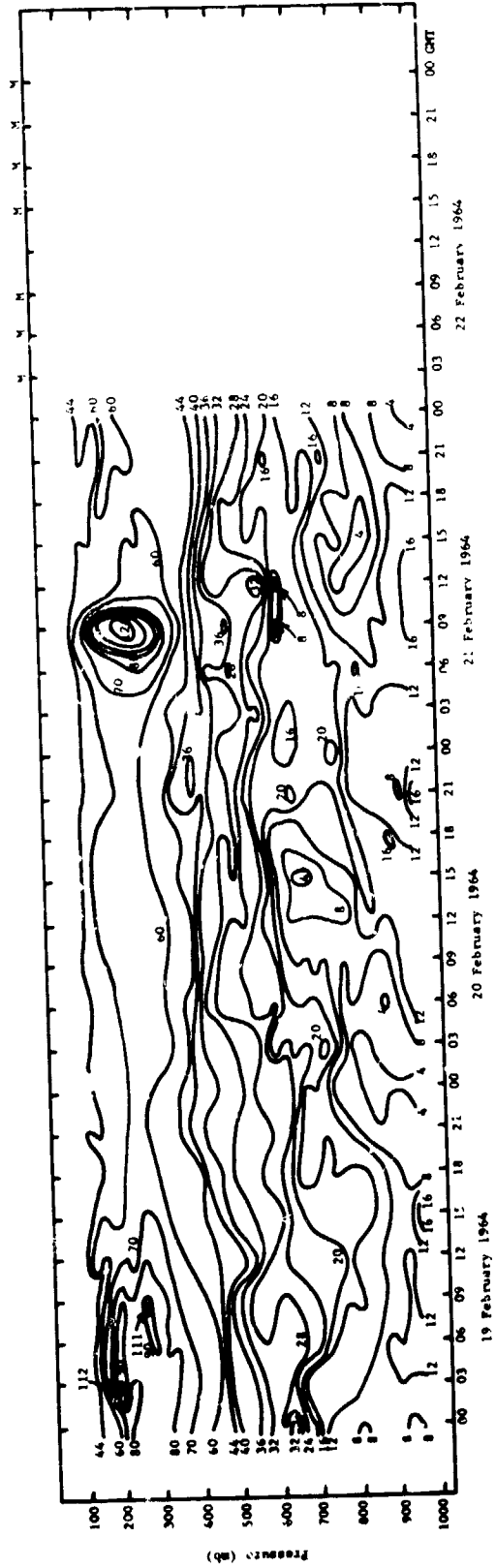
Dewpoint Temperature (°C) for San Antonio, Texas, Station Number 33008



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

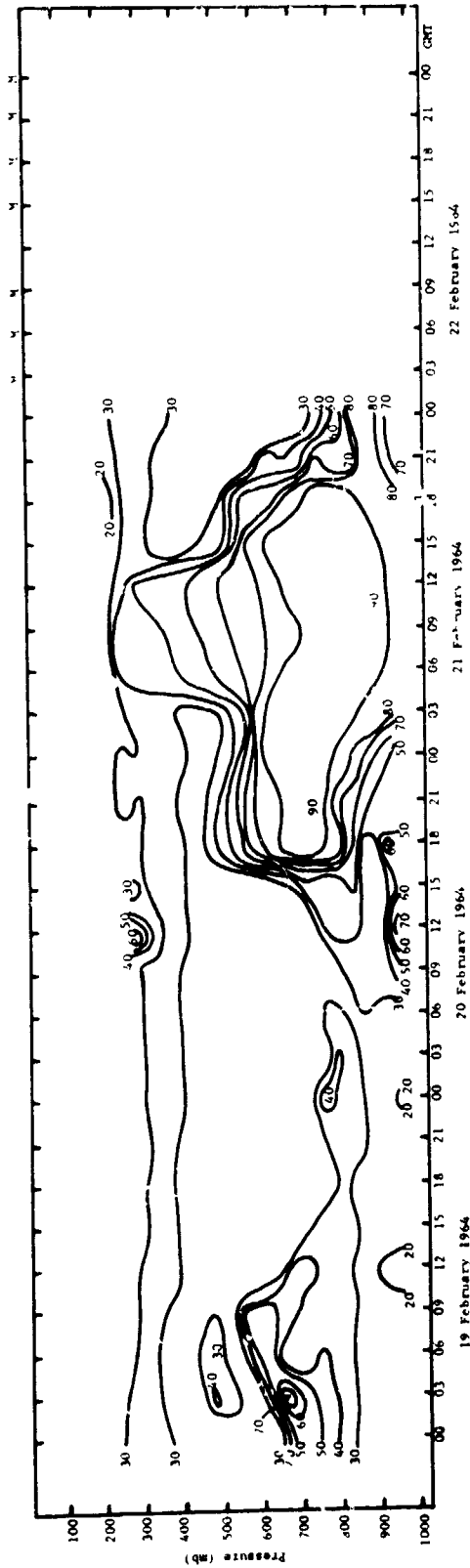


Meridional Wind Component (m/sec) for San Antonio, Texas, Station Number 33008

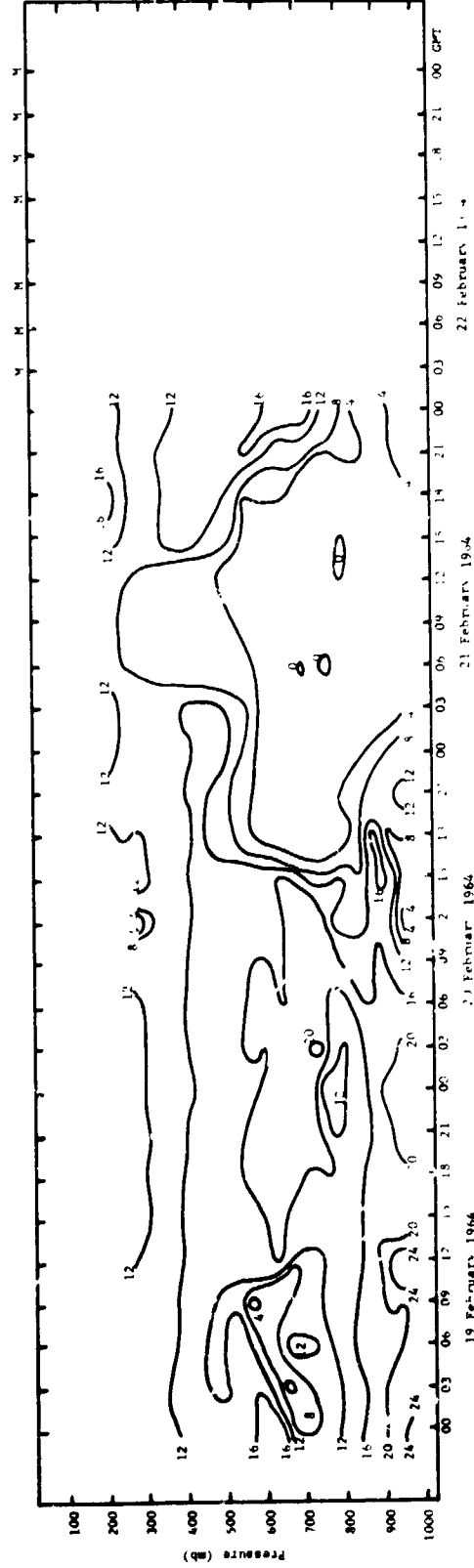


Wind Speed (m/sec) for San Antonio, Texas, Station Number 33008

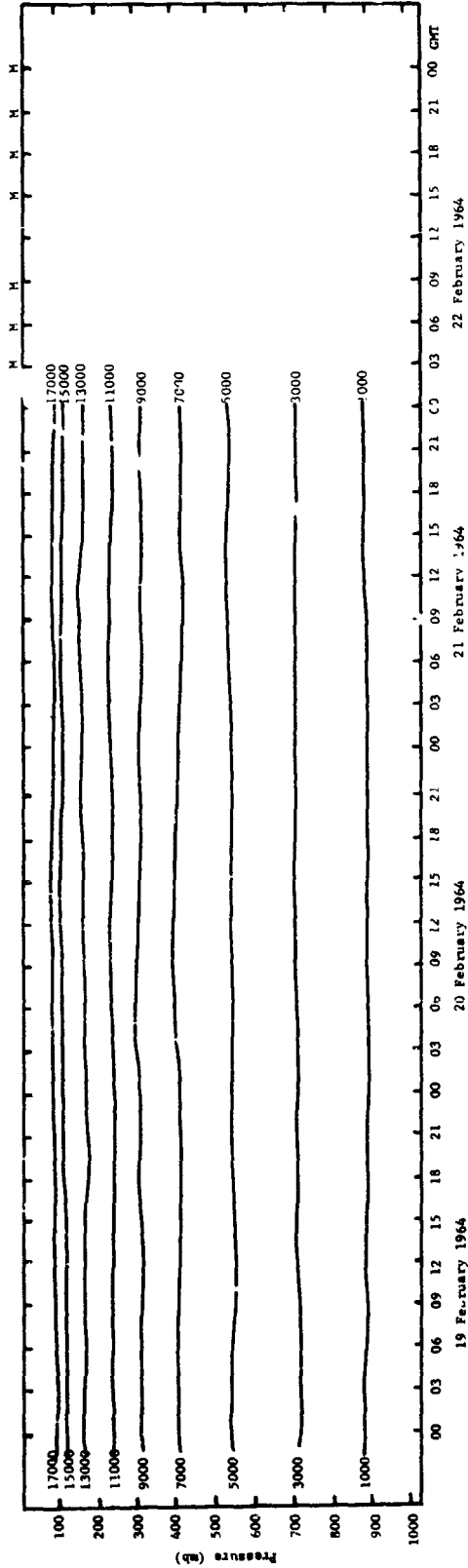
NOTE: Interval not constant



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



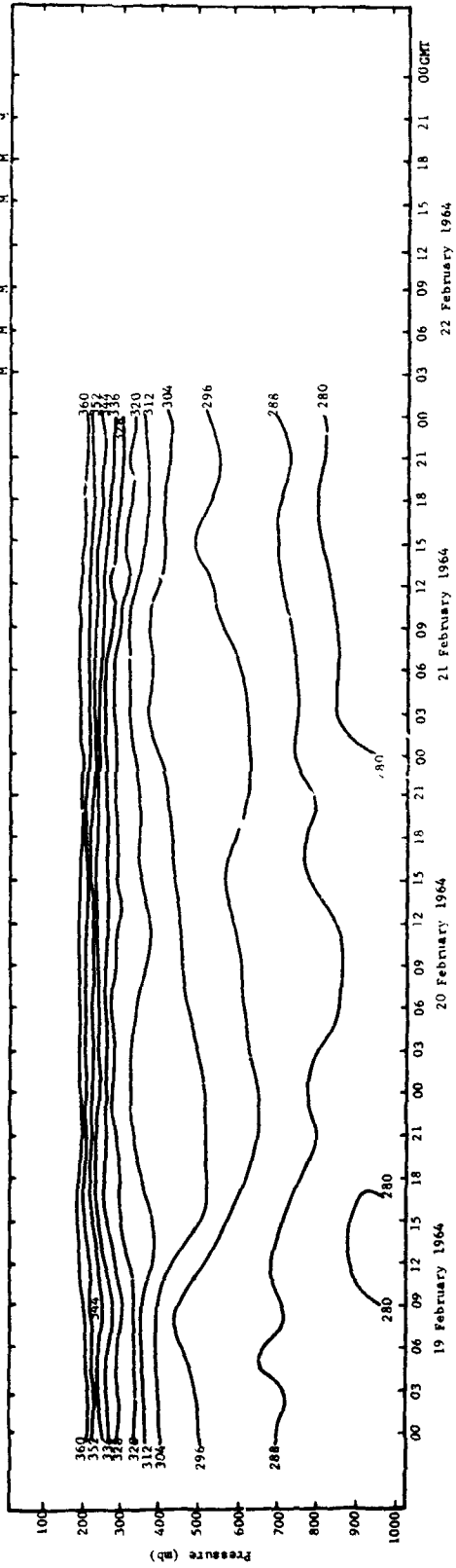
Dewpoint Depression (°C) for San Antonio, Texas, Station Number 33008



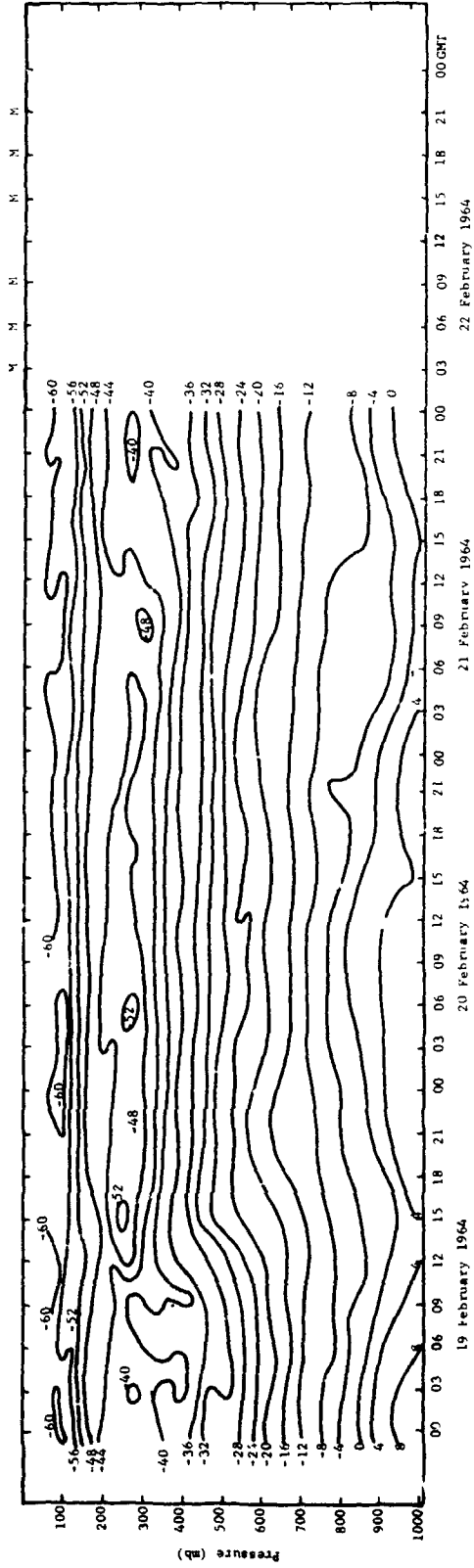
Height (gpm) for San Antonio, Texas, Station Number 33008

Station Number 33009

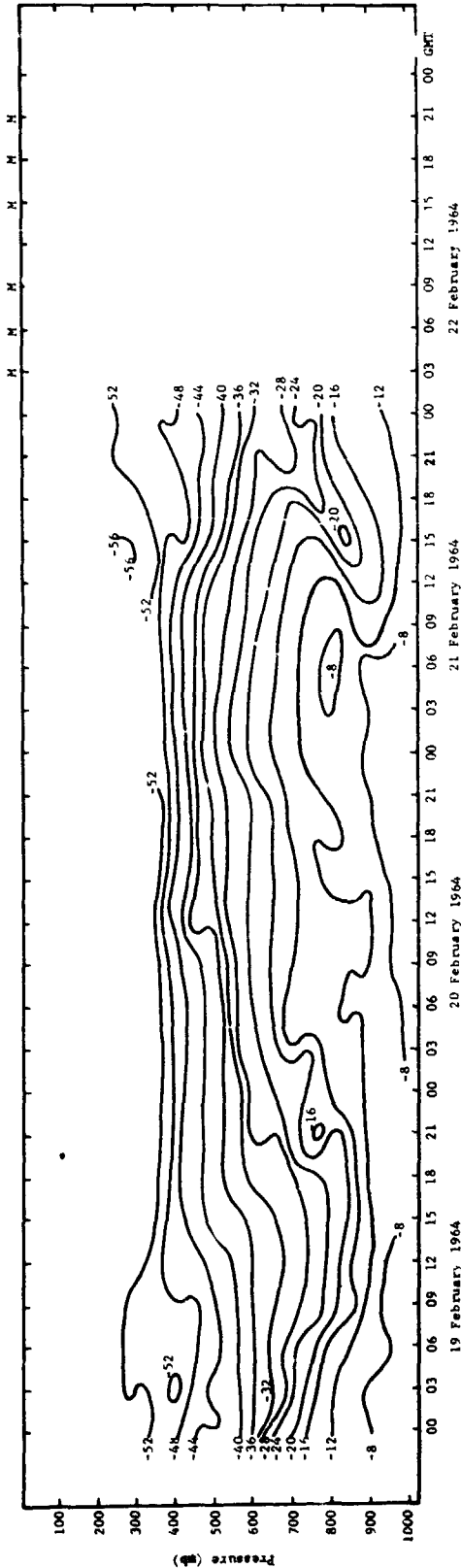
Fort Worth, Texas



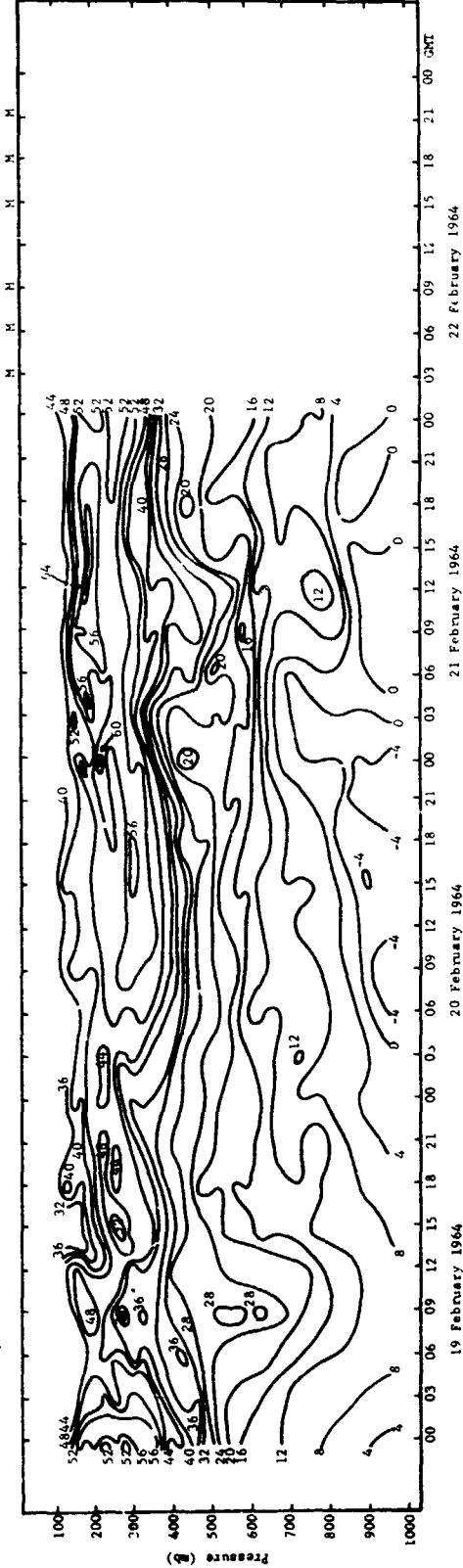
Potential Temperature (K) for Fort Worth, Texas, Station Number 33009



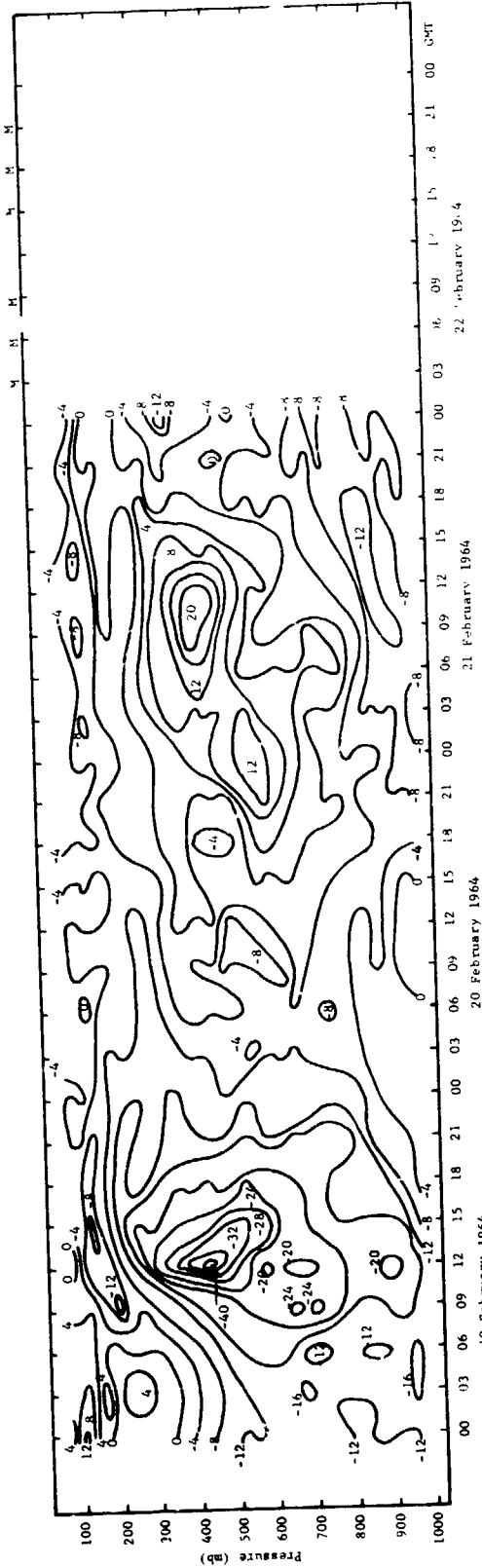
Temperature (C) for Fort Worth, Texas, Station Number 33009



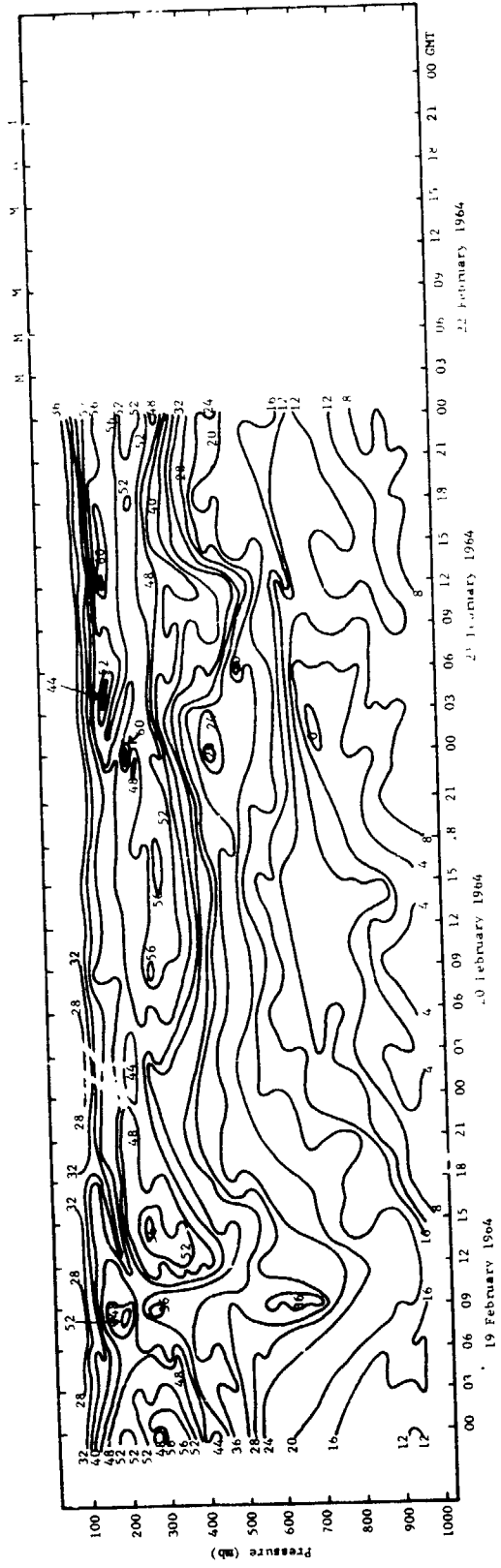
Dewpoint Temperature (°C) for Fort Worth, Texas, Station Number 33009



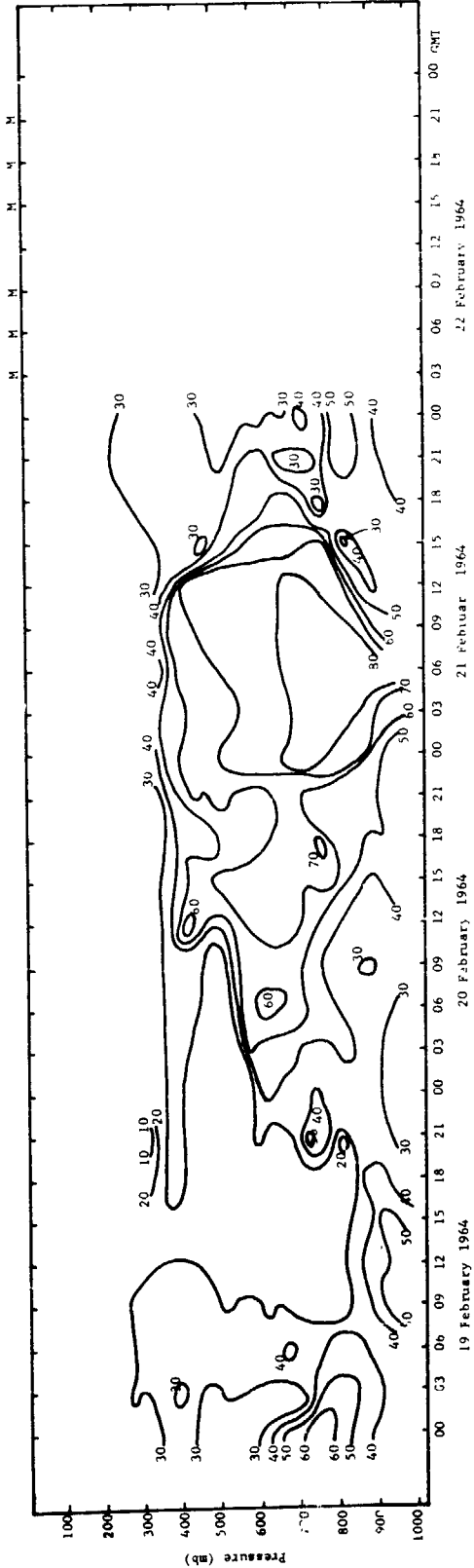
Zonal Wind Component (m/sec) for Fort Worth, Texas, Station Number 33009



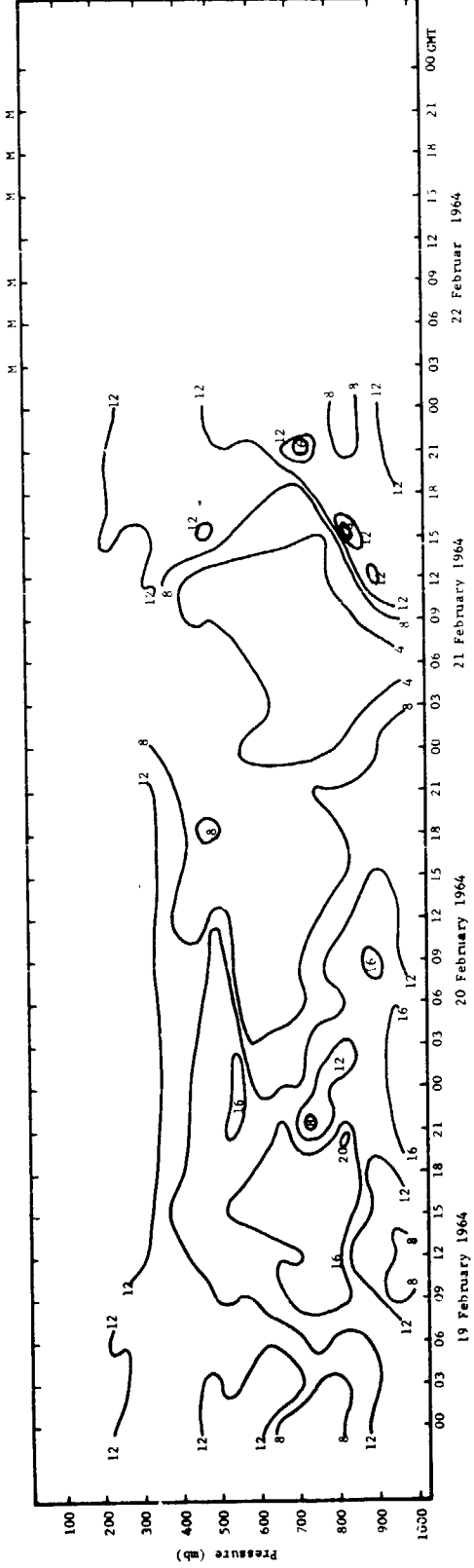
Meridional Wind Component (m/sec) for Fort Worth, Texas, Station Number 33009



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

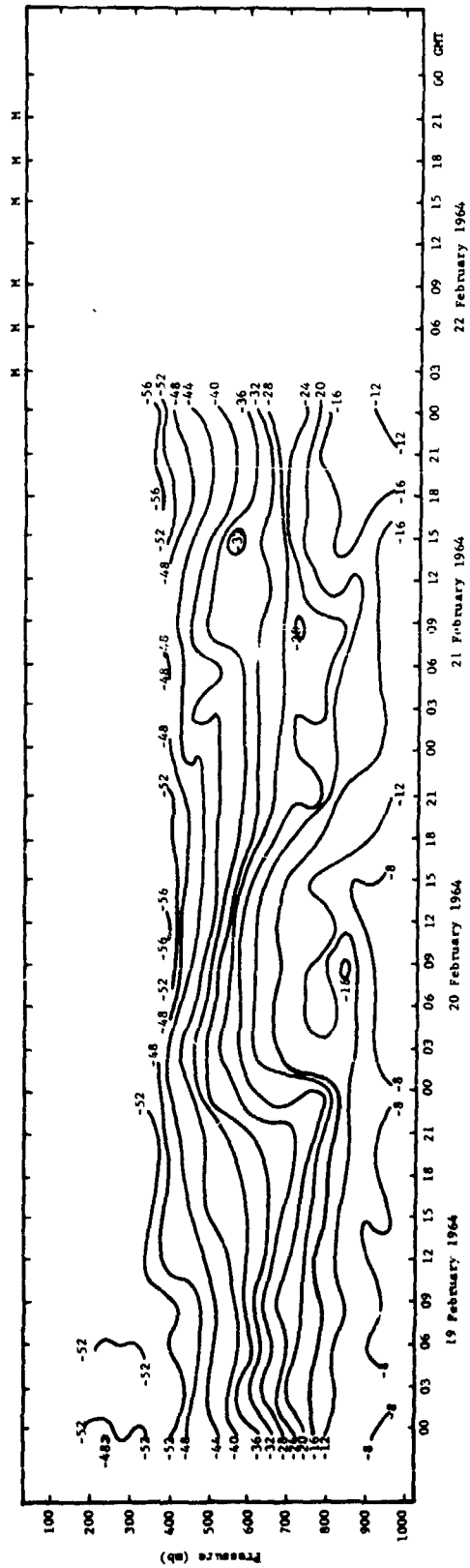


Relative Humidity (%) for Fort Worth, Texas, Station Number 33009

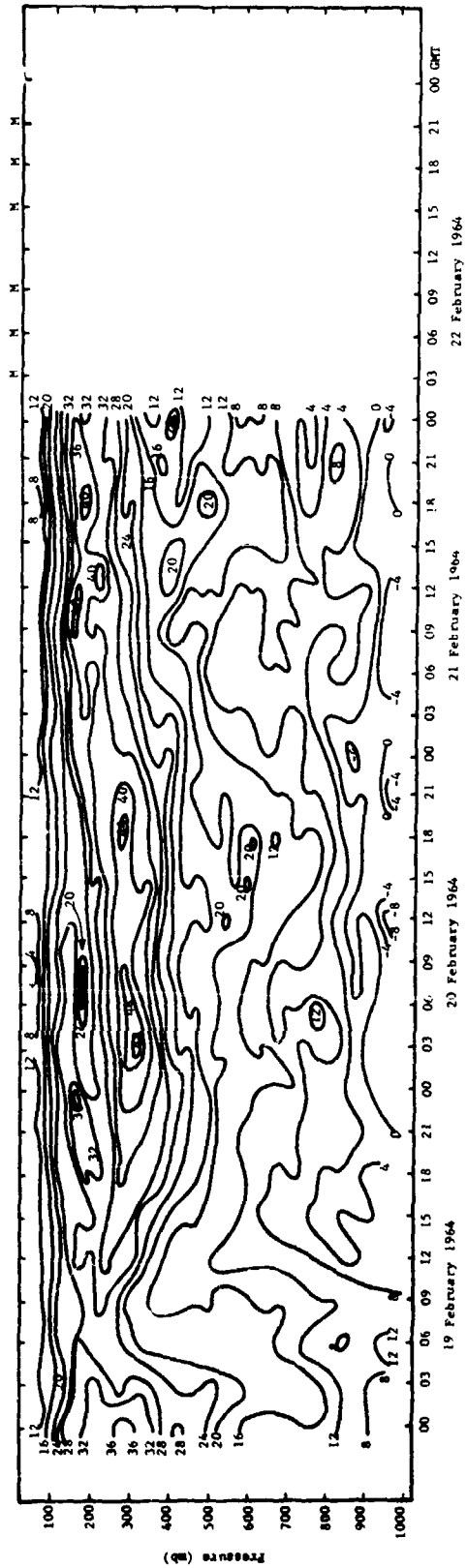


Dewpoint Depression (°C) for Fort Worth, Texas, Station Number 33009

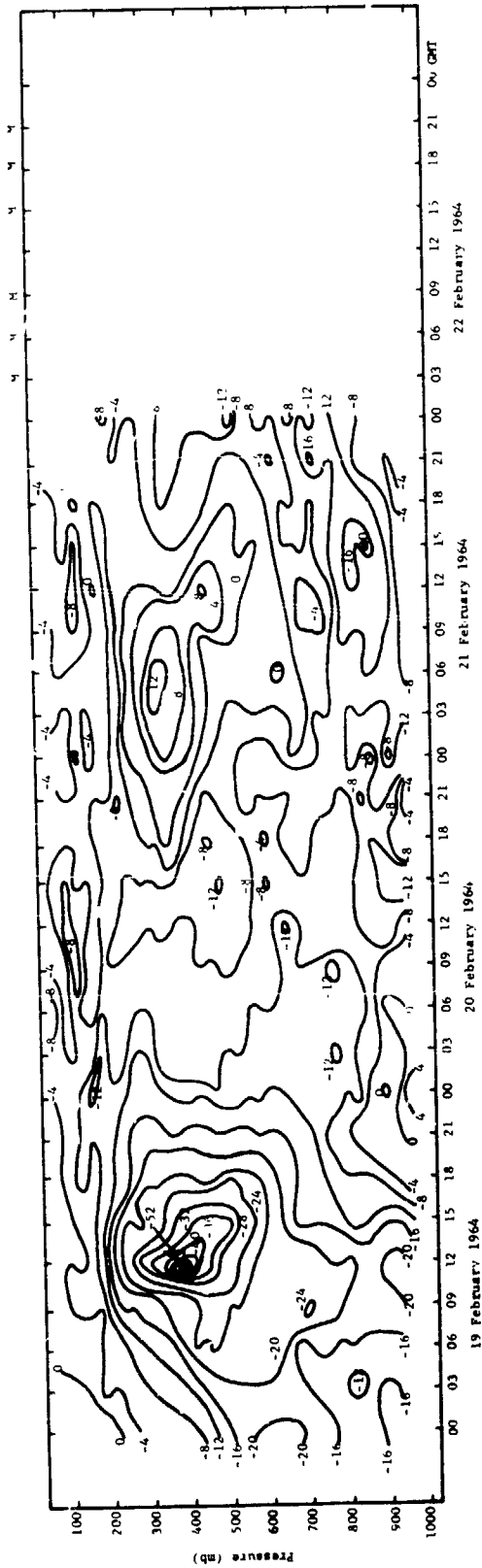
Station Number 33010
Oklahoma City, Oklahoma



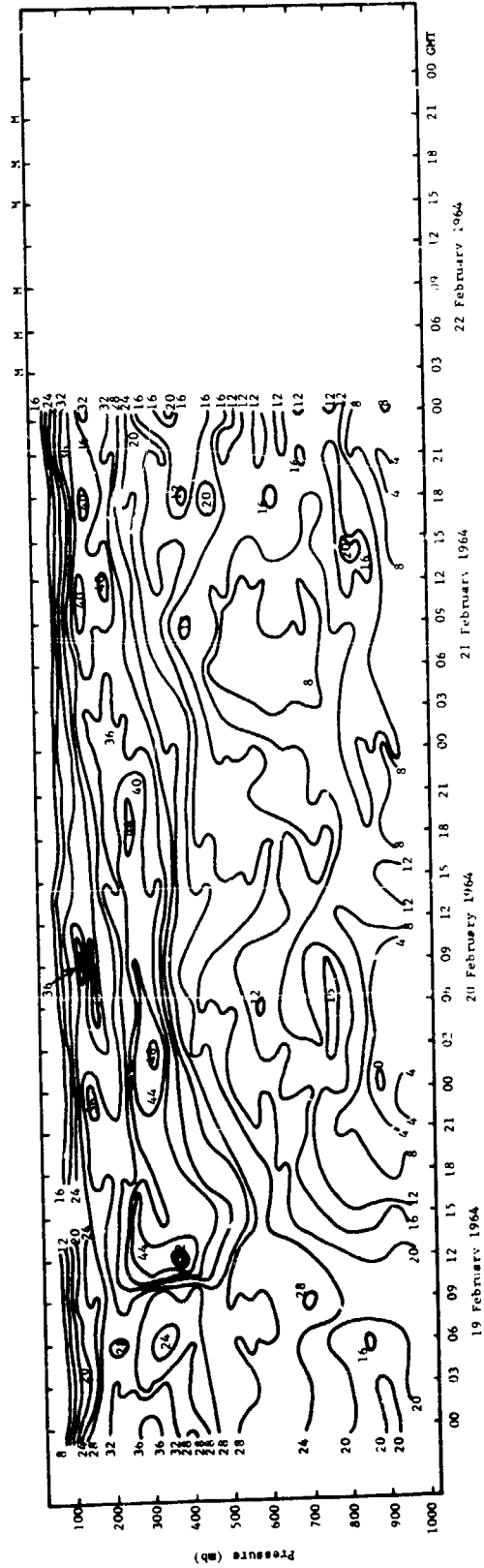
Dewpoint Temperature ($^{\circ}\text{C}$) for Oklahoma City, Oklahoma, Station Number 33010



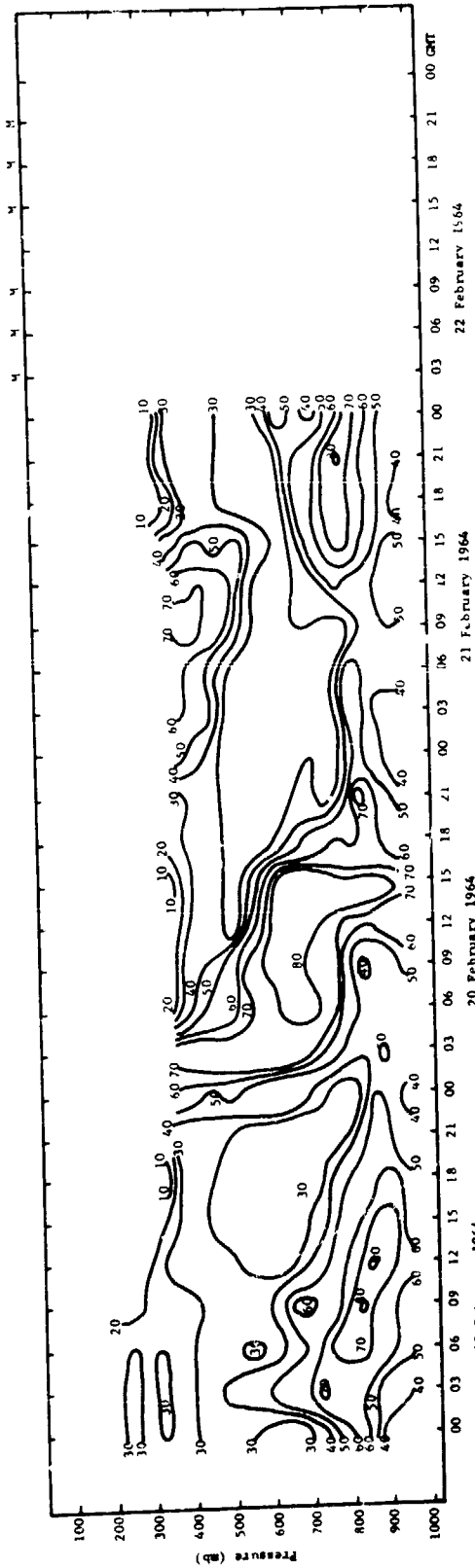
Zonal Wind Component (m/sec) for Oklahoma City, Oklahoma, Station Number 33010



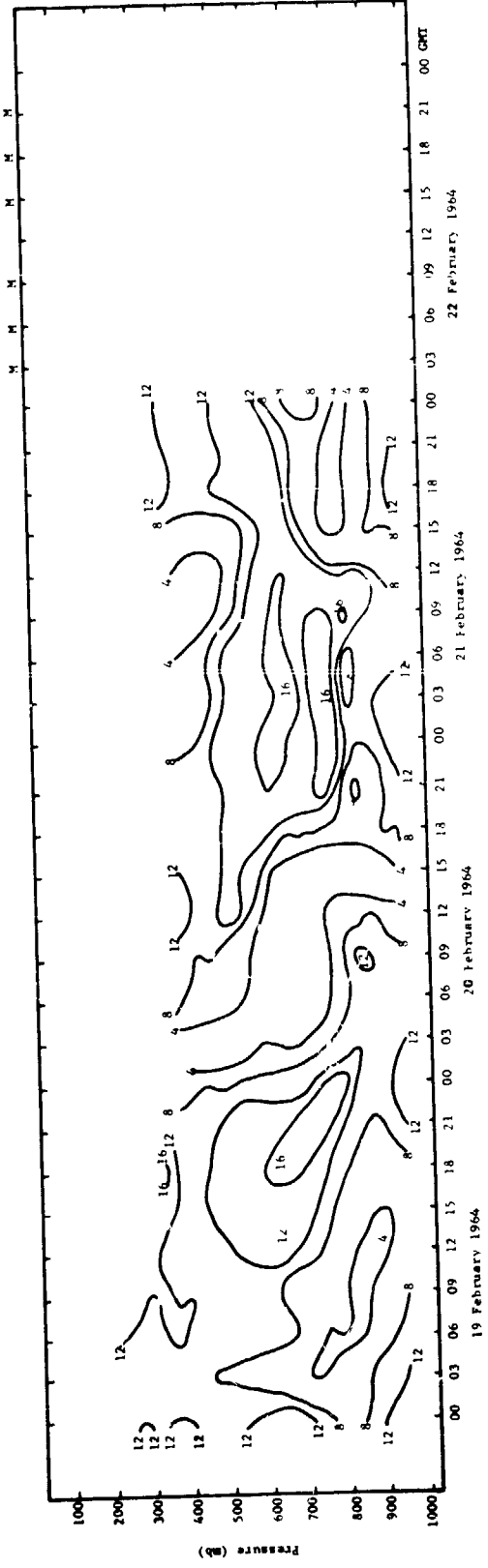
Meridional Wind Component (m/sec) for Oklahoma City, Oklahoma, Station Number 33010



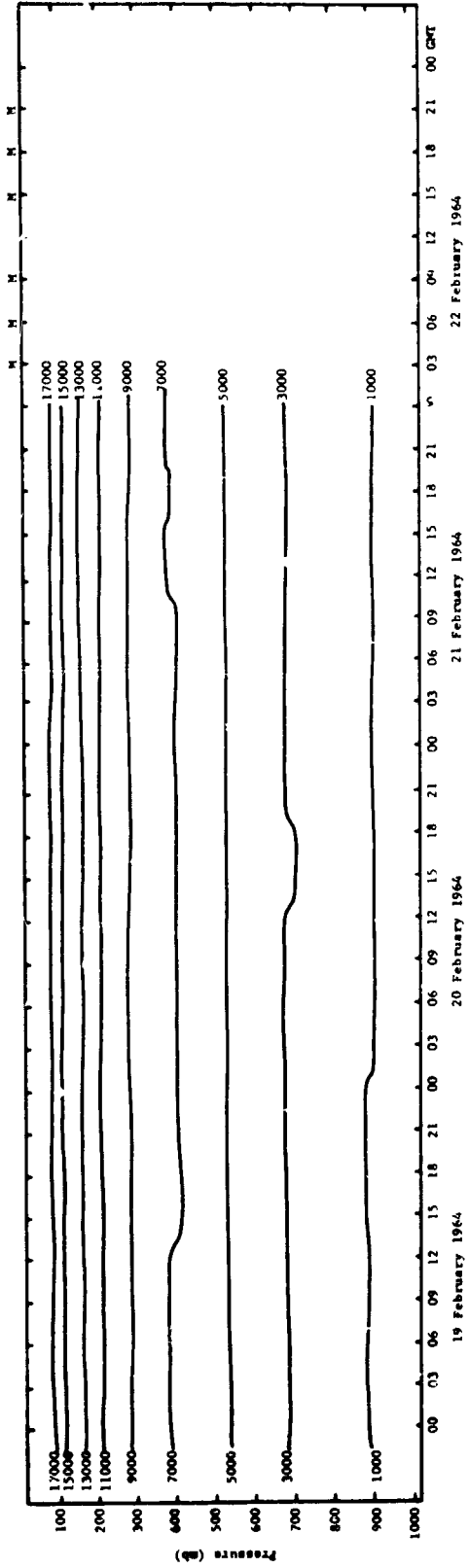
Wind Speed (m/sec) for Oklahoma City, Oklahoma, Station Number 33010



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



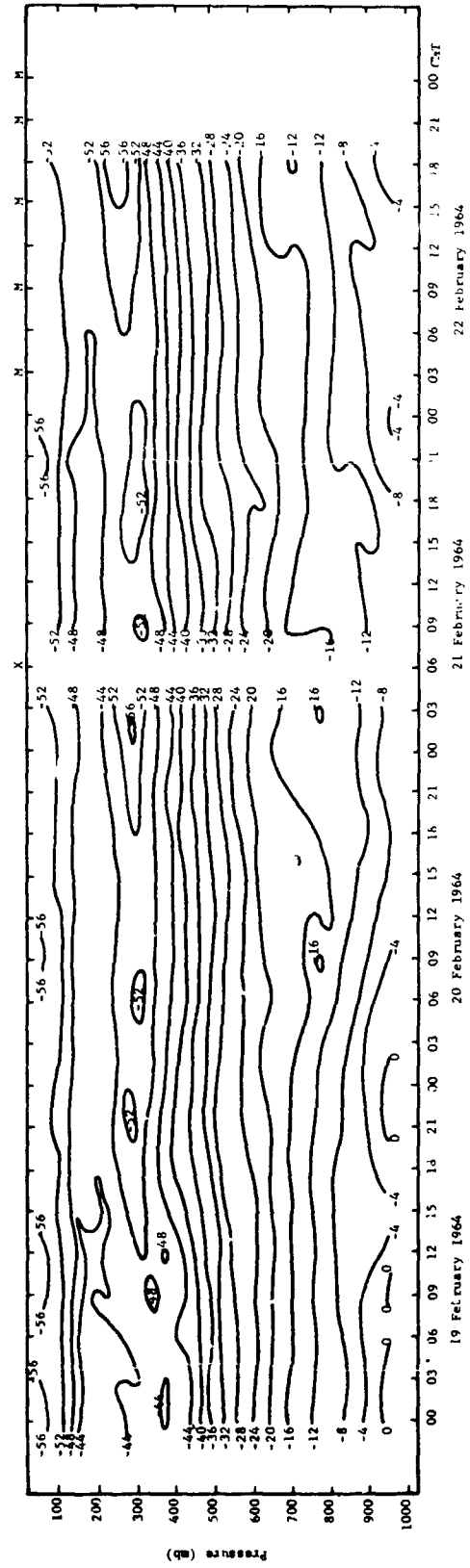
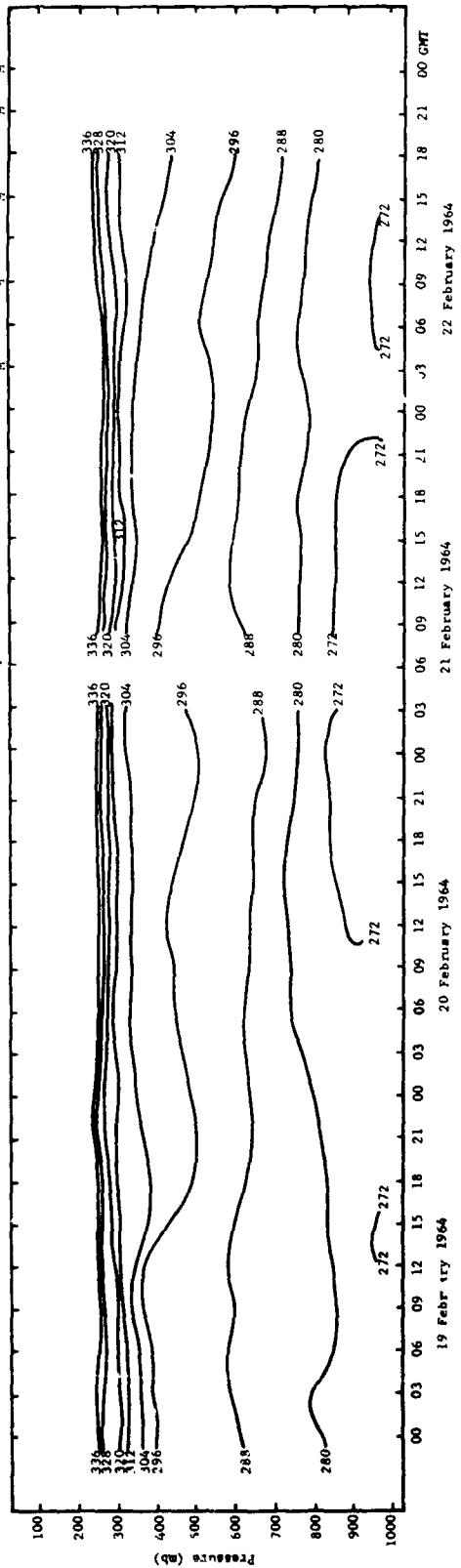
Dewpoint Depression (°C) for Oklahoma City, Oklahoma, Station Number 33010

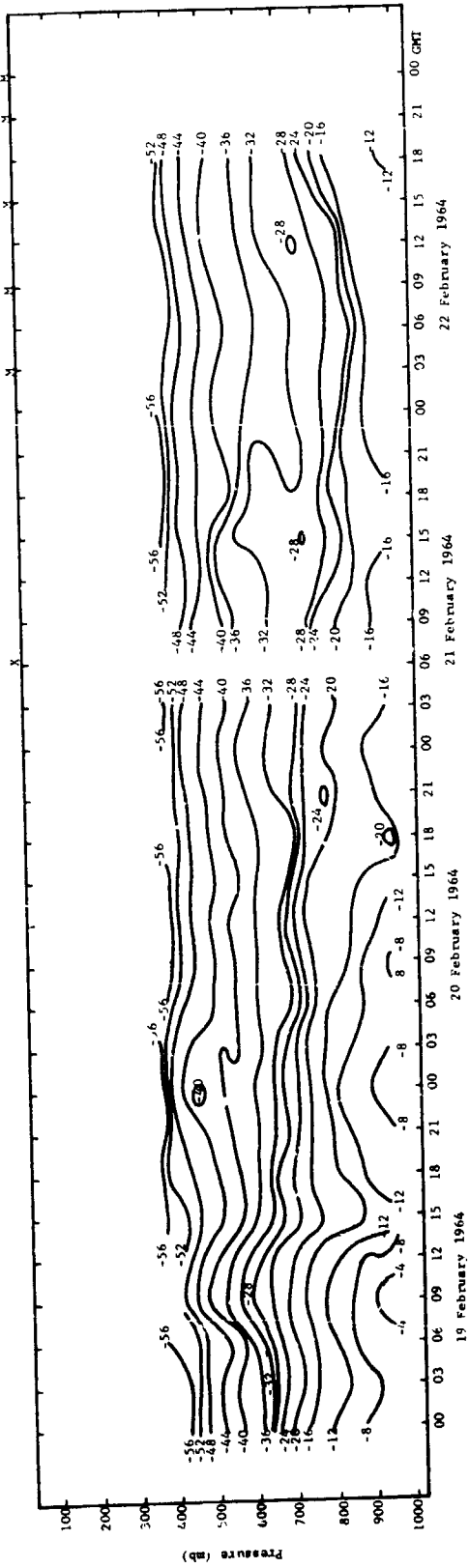


Height (gpm) for Oklahoma City, Oklahoma, Station Number 33010

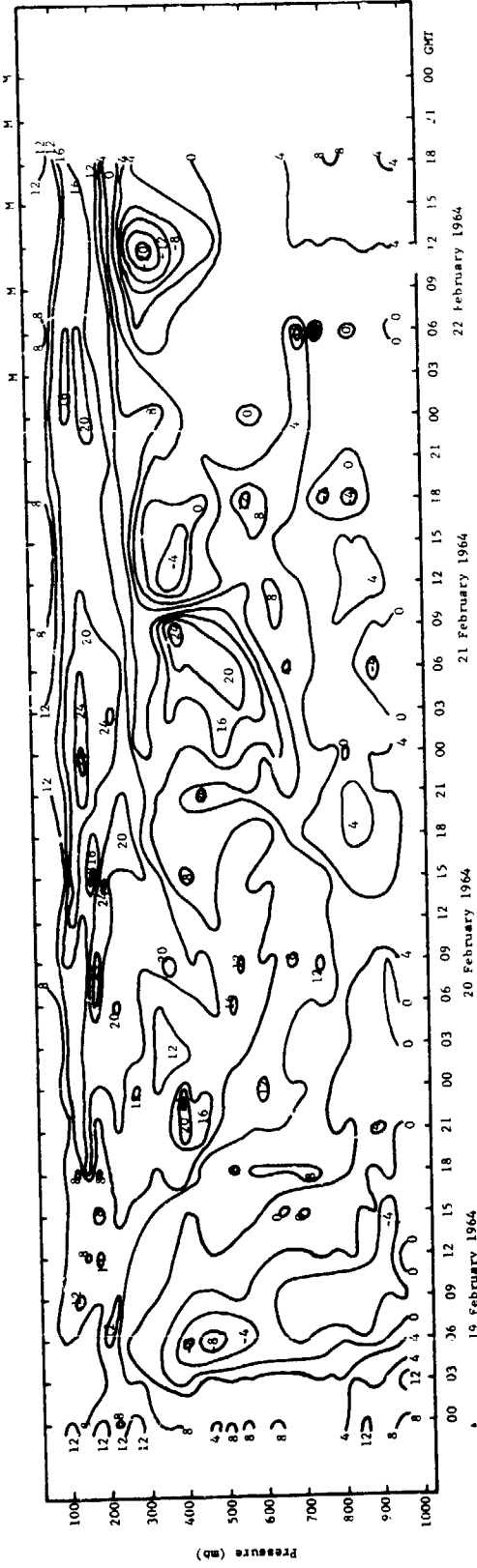
Station Number 33011

Topeka, Kansas

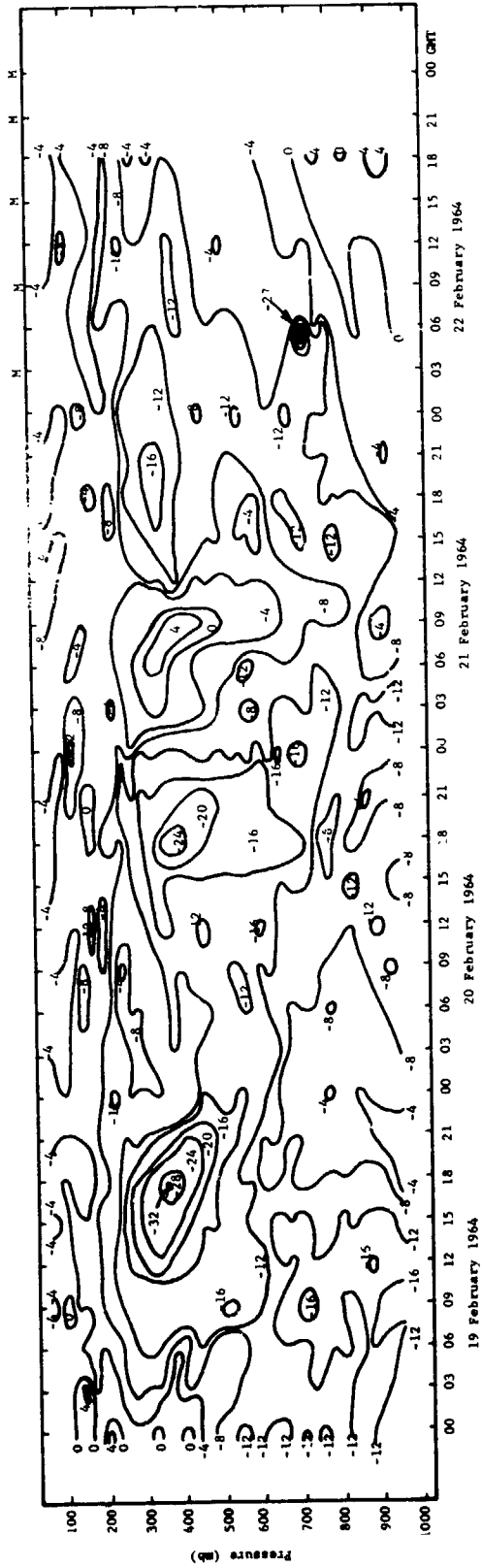




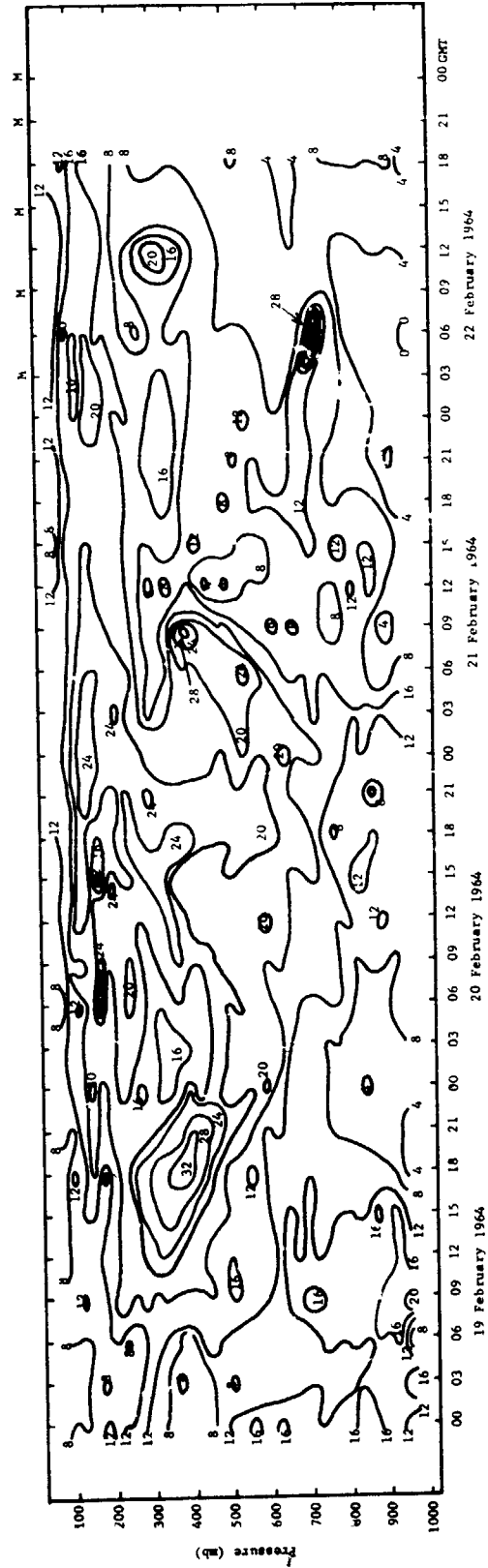
Dewpoint Temperature (°C) for Topeka, Kansas, Station Number 33011



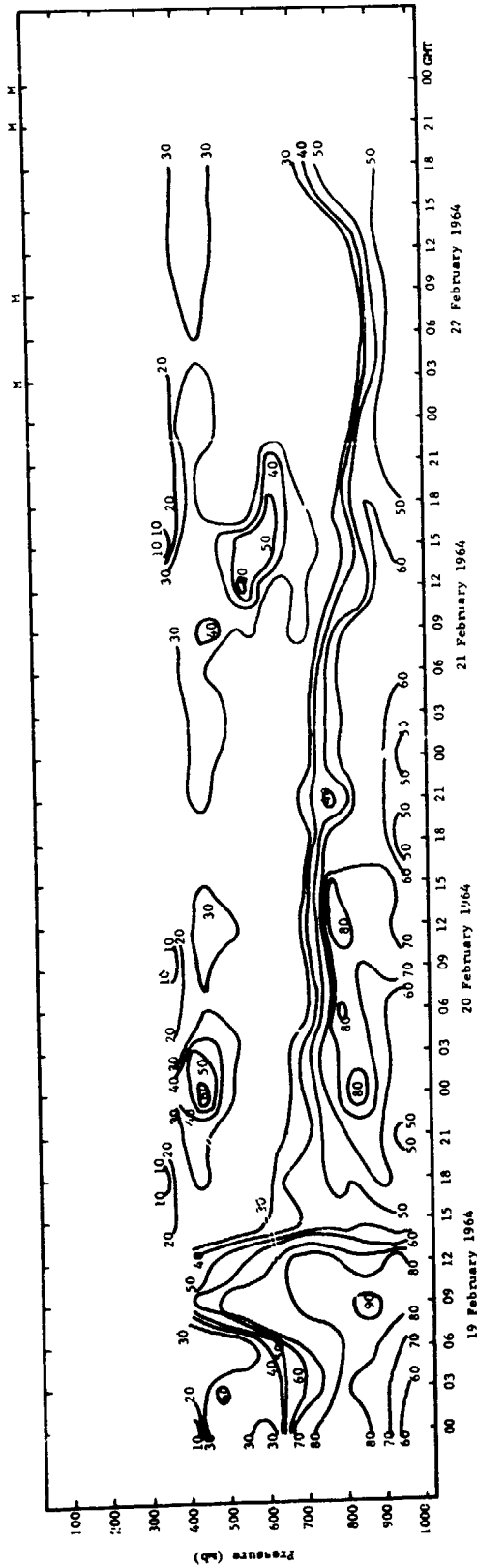
Zonal Wind Component (m/sec) for Topeka, Kansas, Station Number 33011



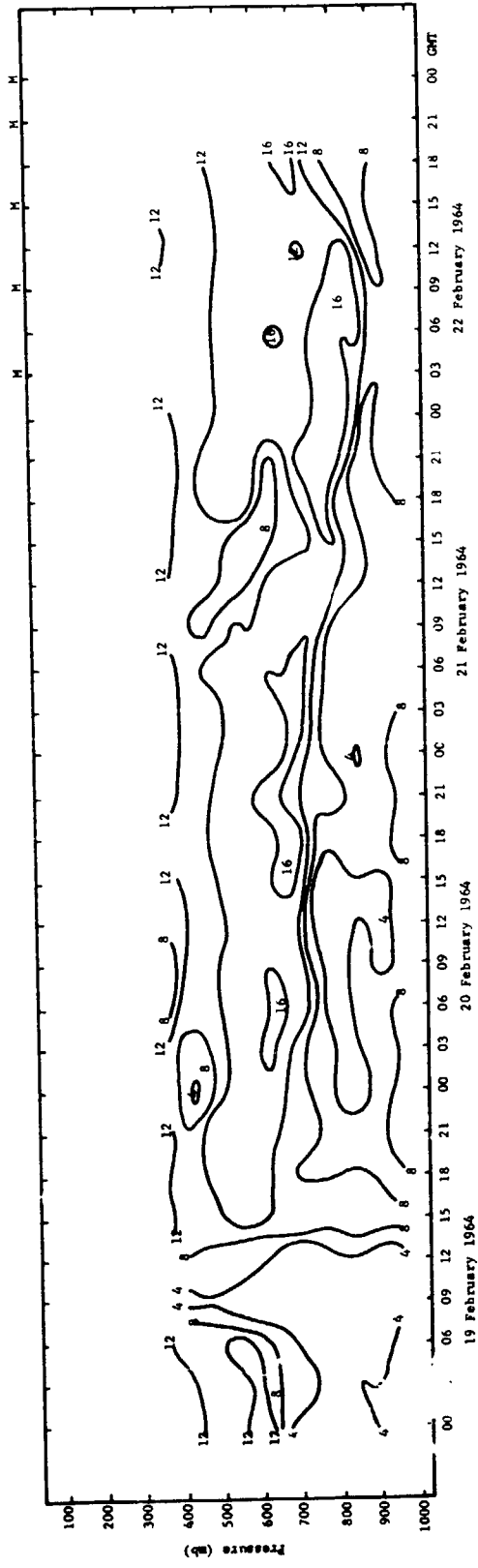
Meridional Wind Component (m/sec) for Topeka, Kansas, Station Number 33011



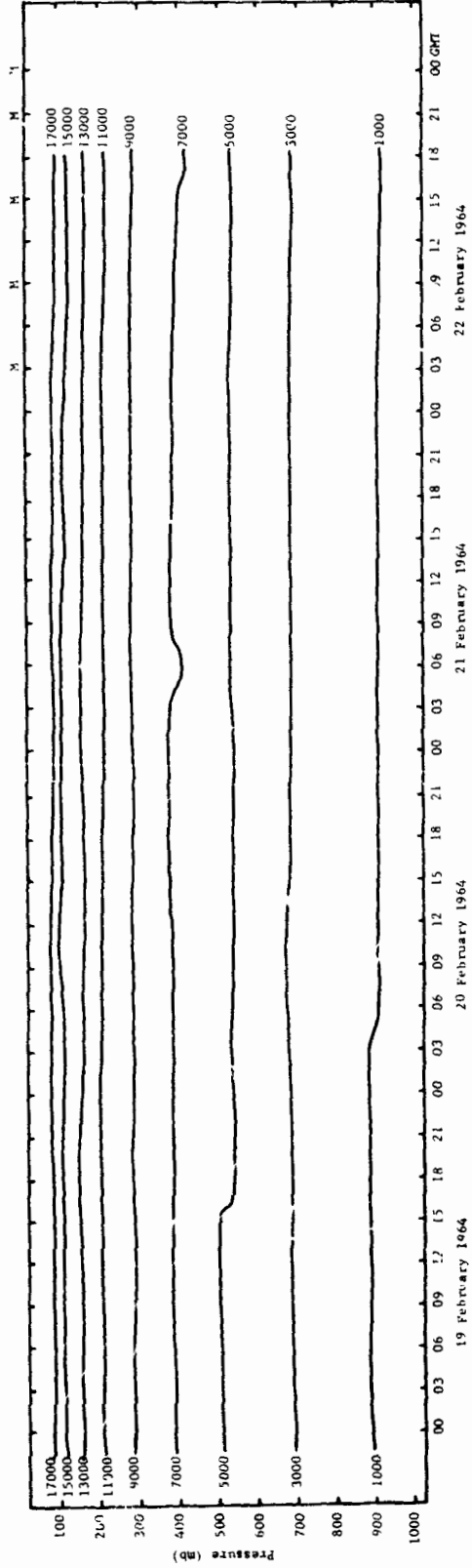
Wind Speed (m/sec) for Topeka, Kansas, Station Number 33011



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



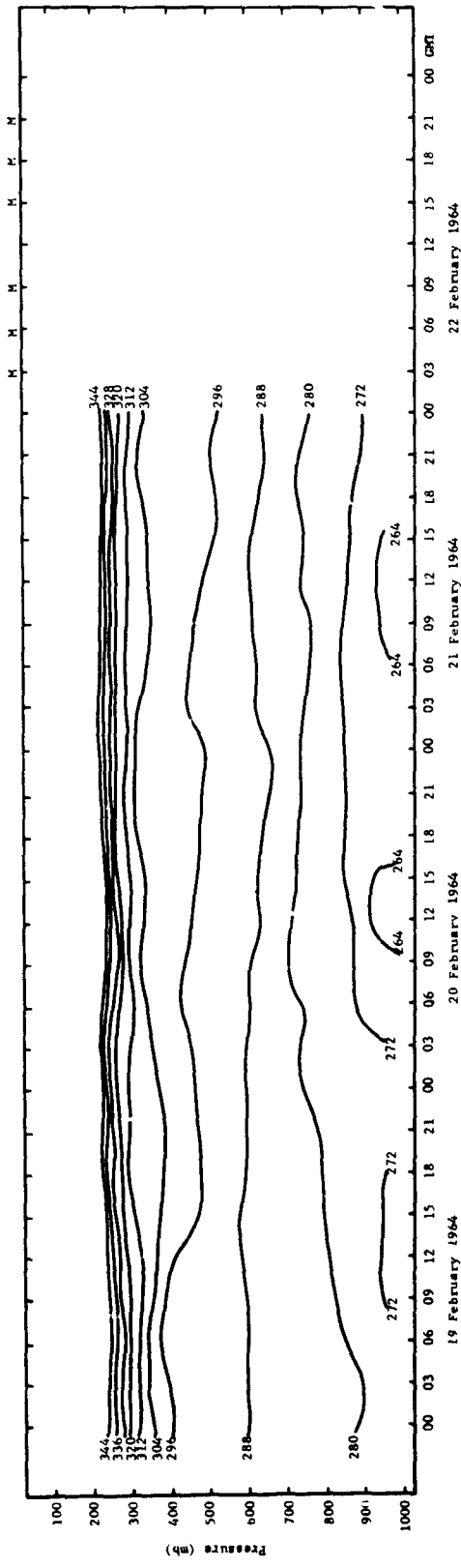
Dewpoint Depression (°C) for Topeka, Kansas, Station Number 33011



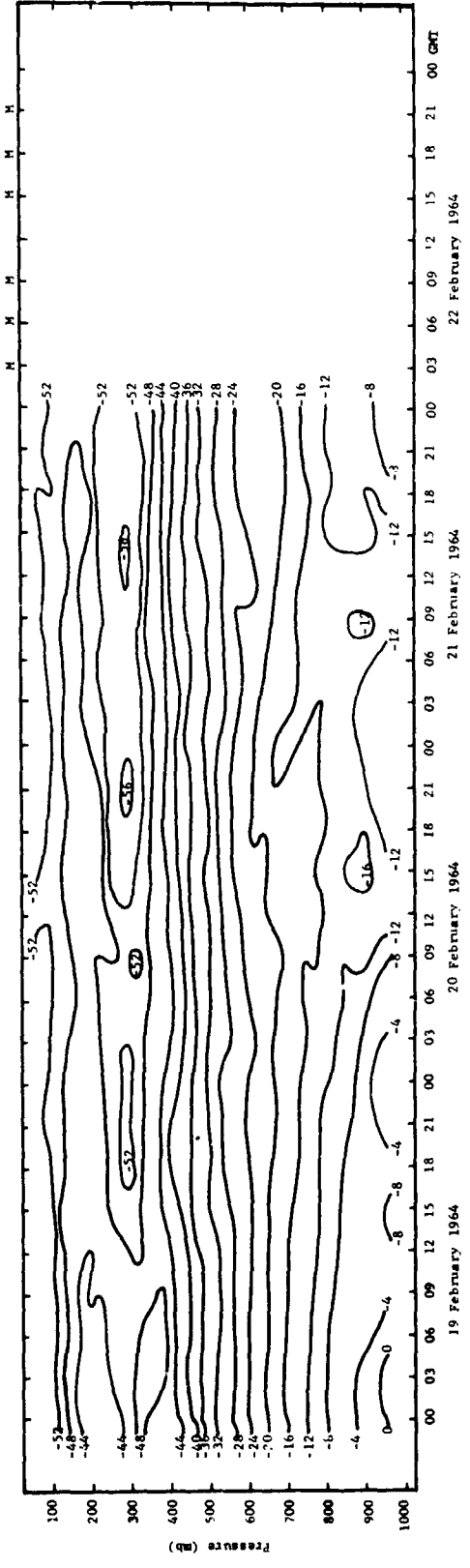
Height (gpm) for Topeka, Kansas, Station Number 33011

Station Number 33012

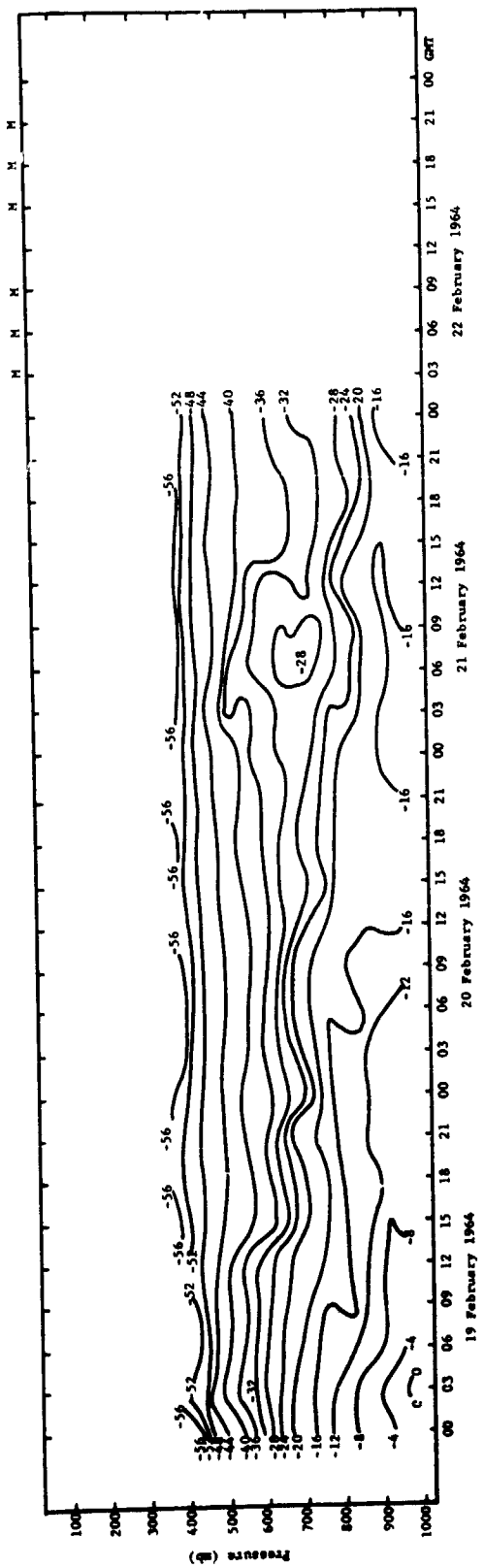
Omaha, Nebraska



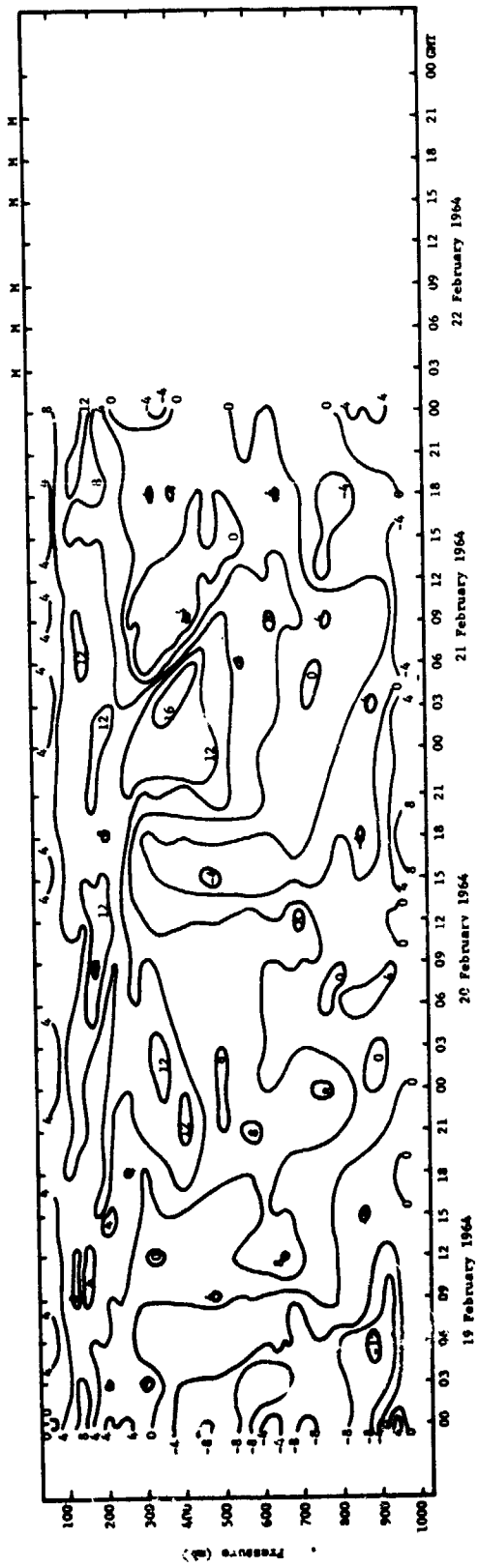
Potential Temperature (K) for Omaha, Nebraska, Station Number 33012



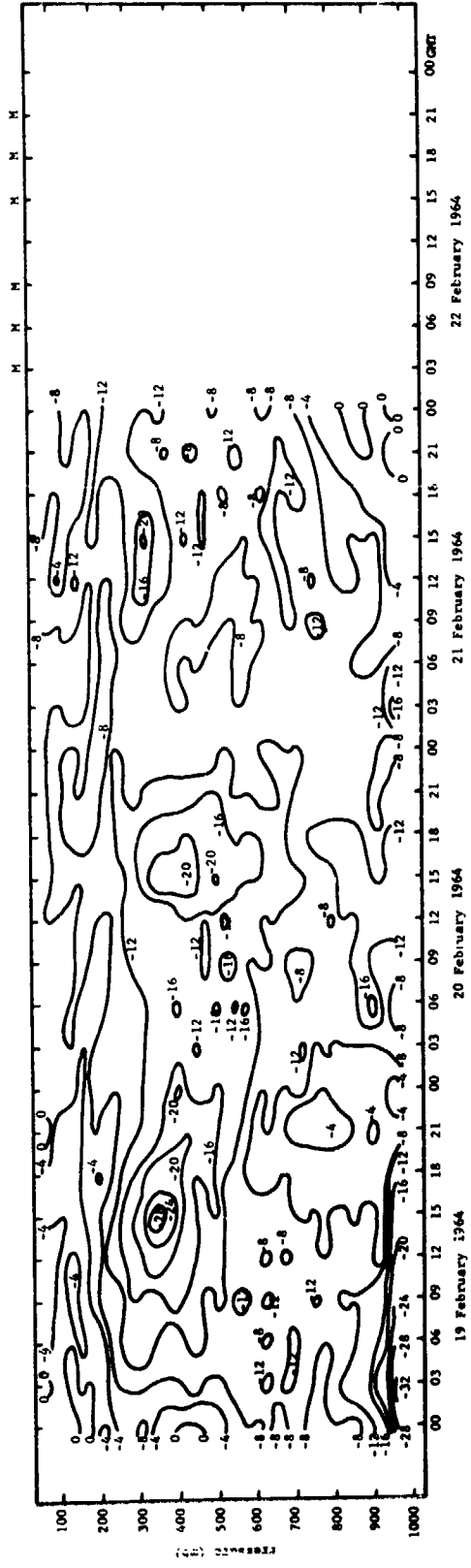
Temperature (C) for Omaha, Nebraska, Station Number 33012



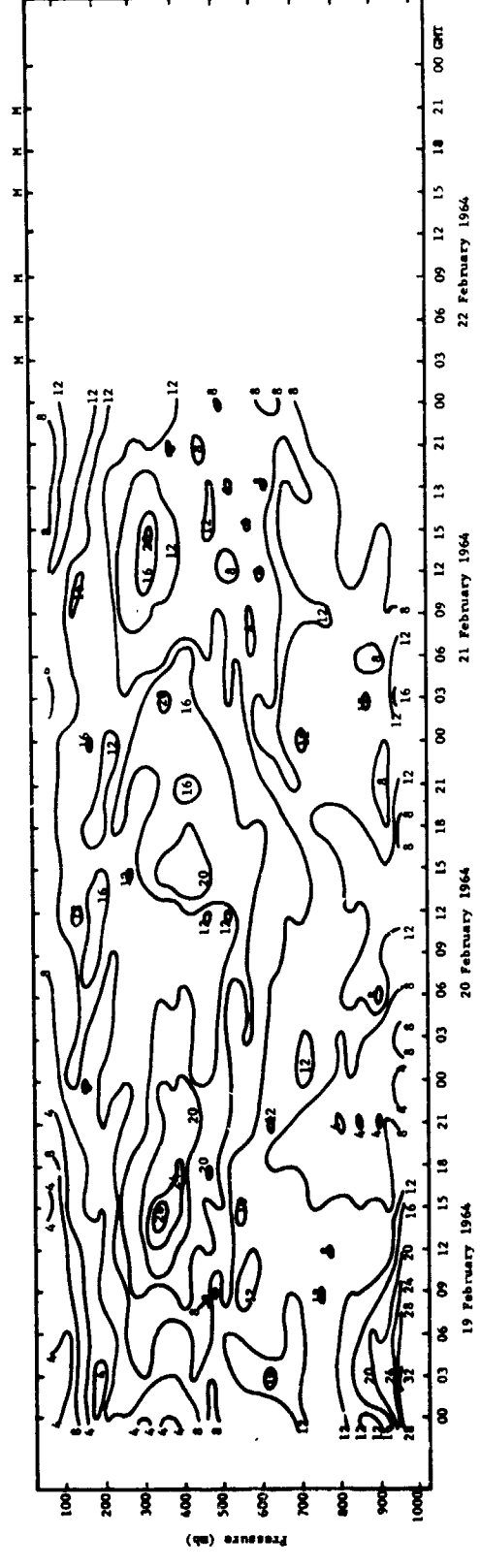
Dewpoint Temperature (°C) for Omaha, Nebraska, Station Number 33012



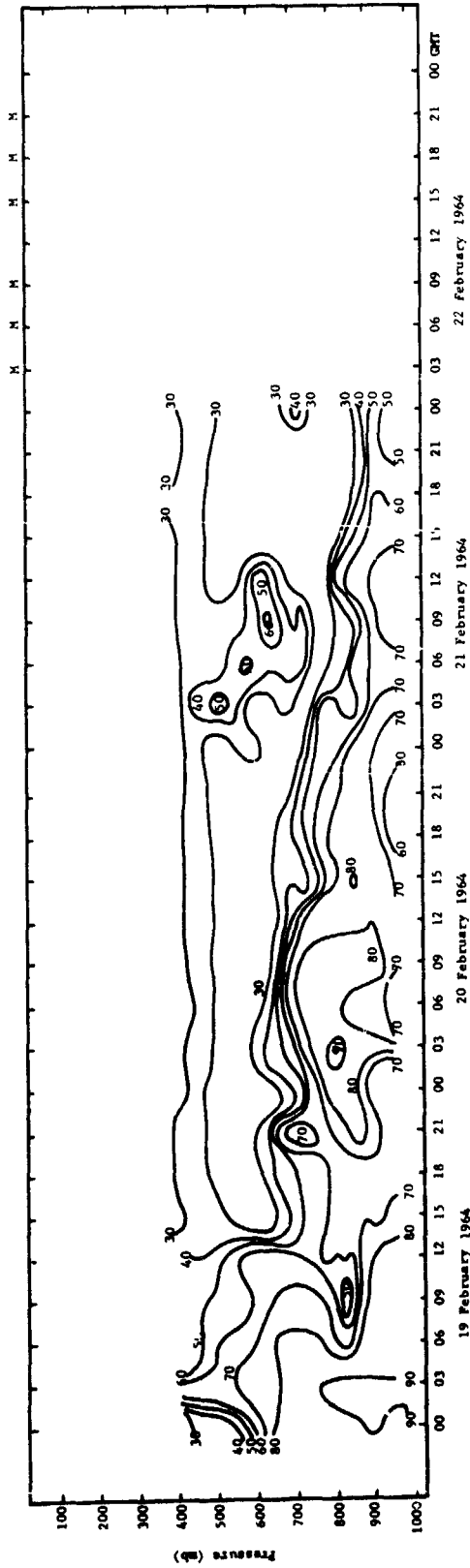
Zonal Wind Component (m/sec) for Omaha, Nebraska, Station Number 33012



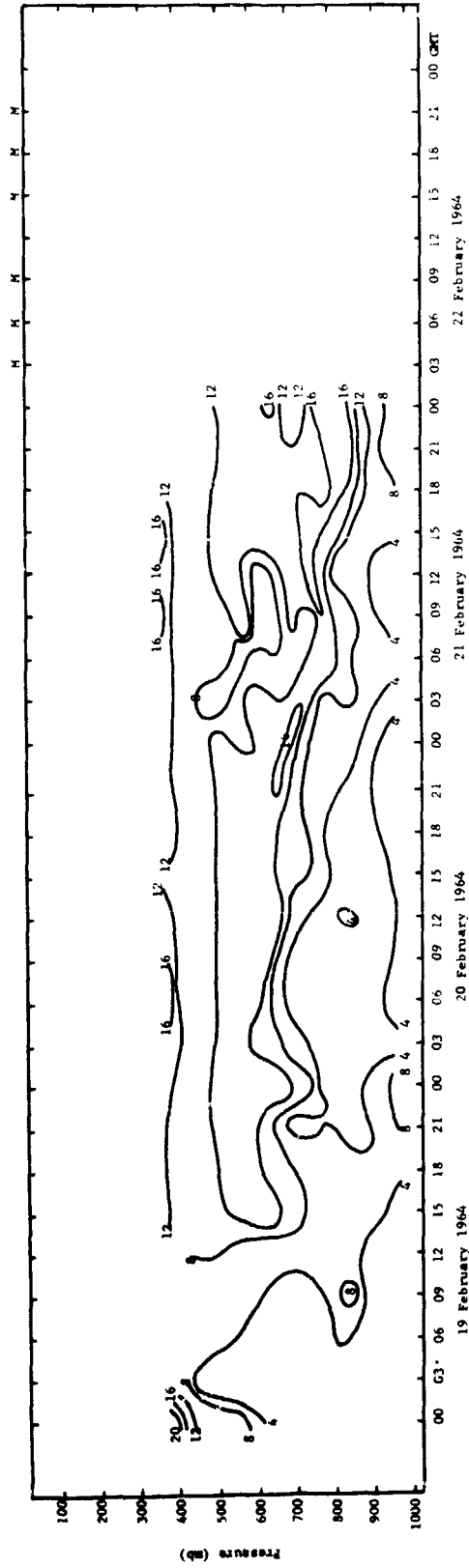
Meridional Wind Component (m/sec) for Omaha, Nebraska, Station Number 33012



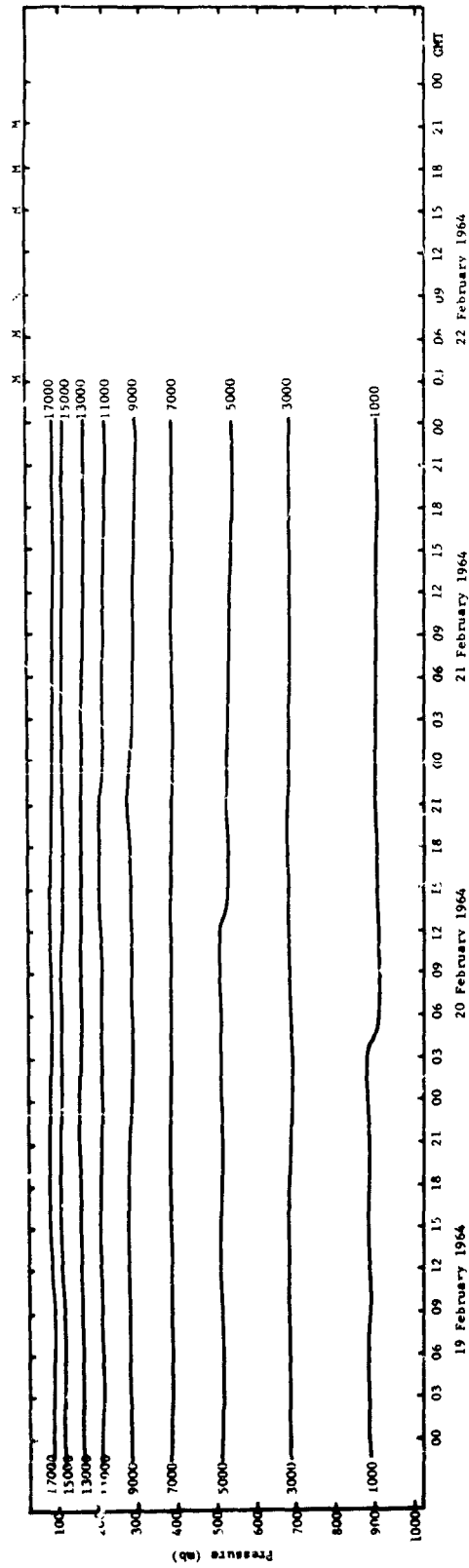
Wind Speed (m/sec) for Omaha, Nebraska, Station Number 33012



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



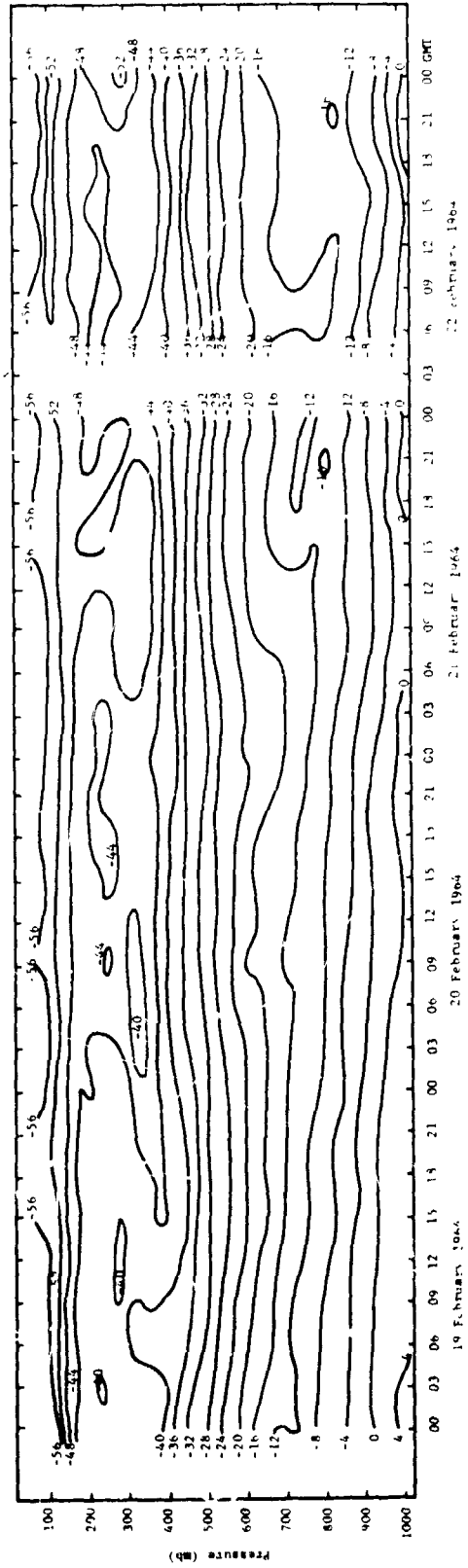
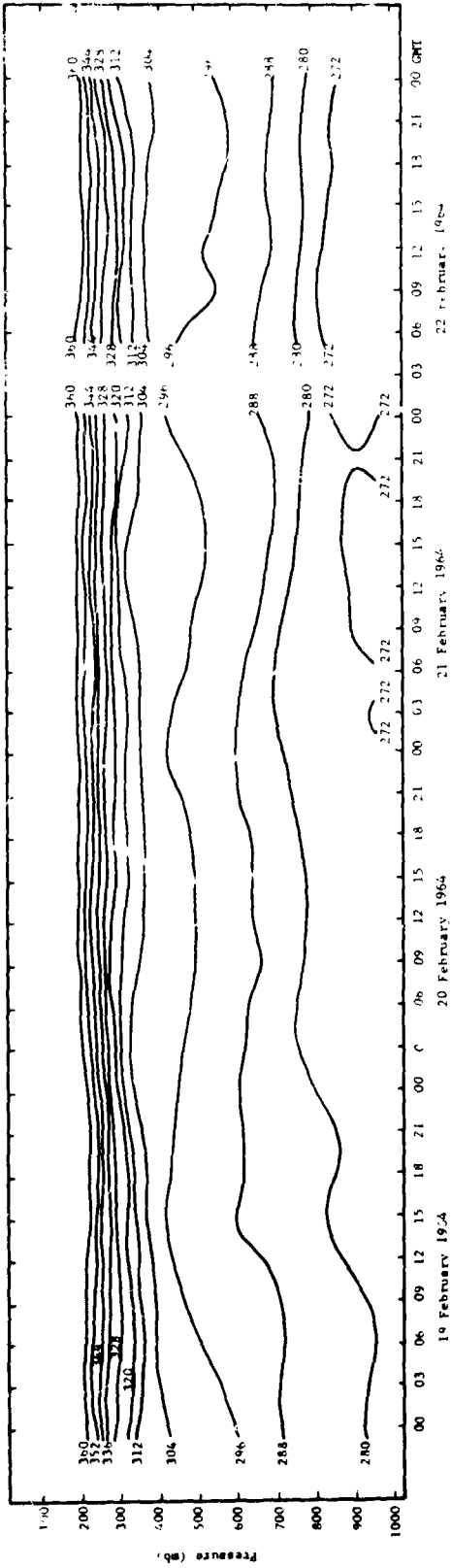
Dewpoint Depression (°C) for Omaha, Nebraska, Station Number 33012

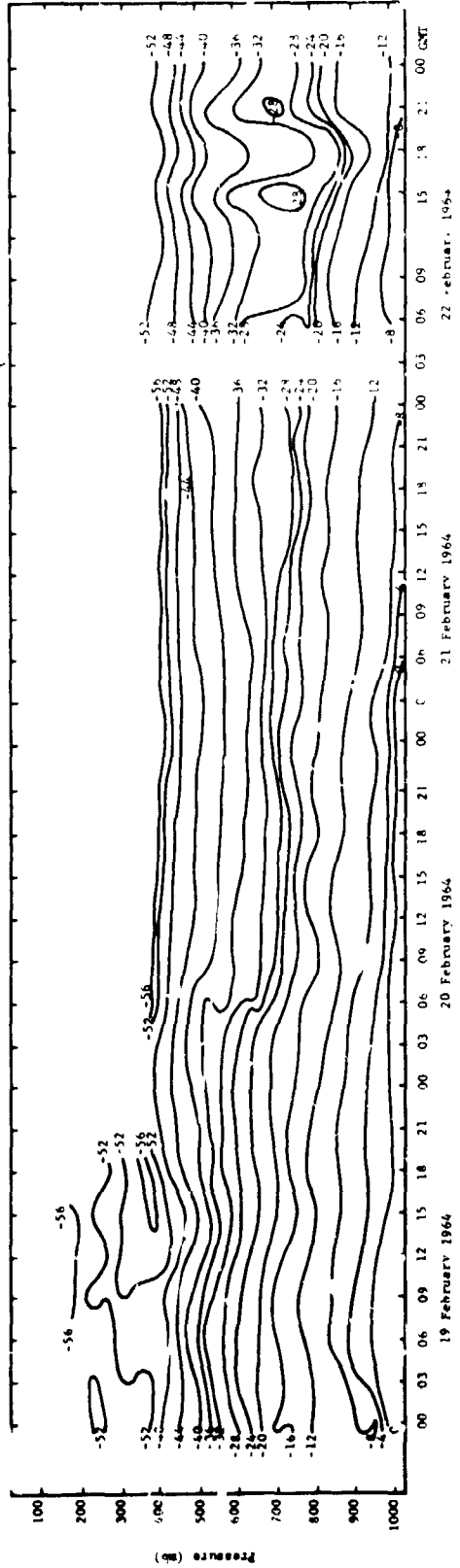


Height (gpm) for Omaha, Nebraska, Station Number 33012

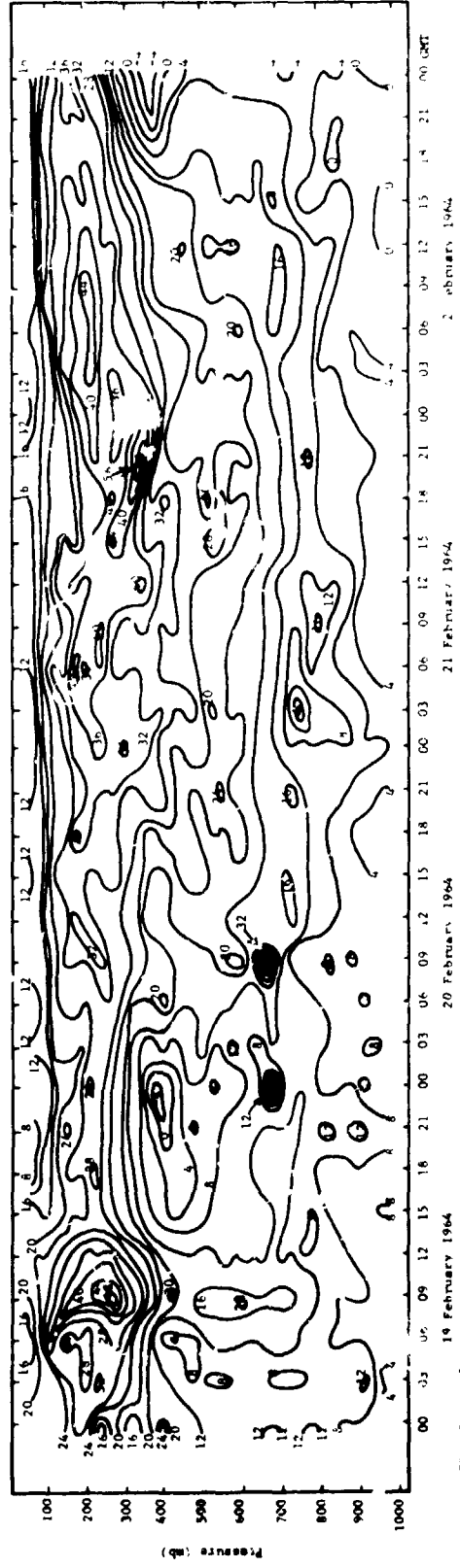
Station Number 33013

Nashville, Tennessee



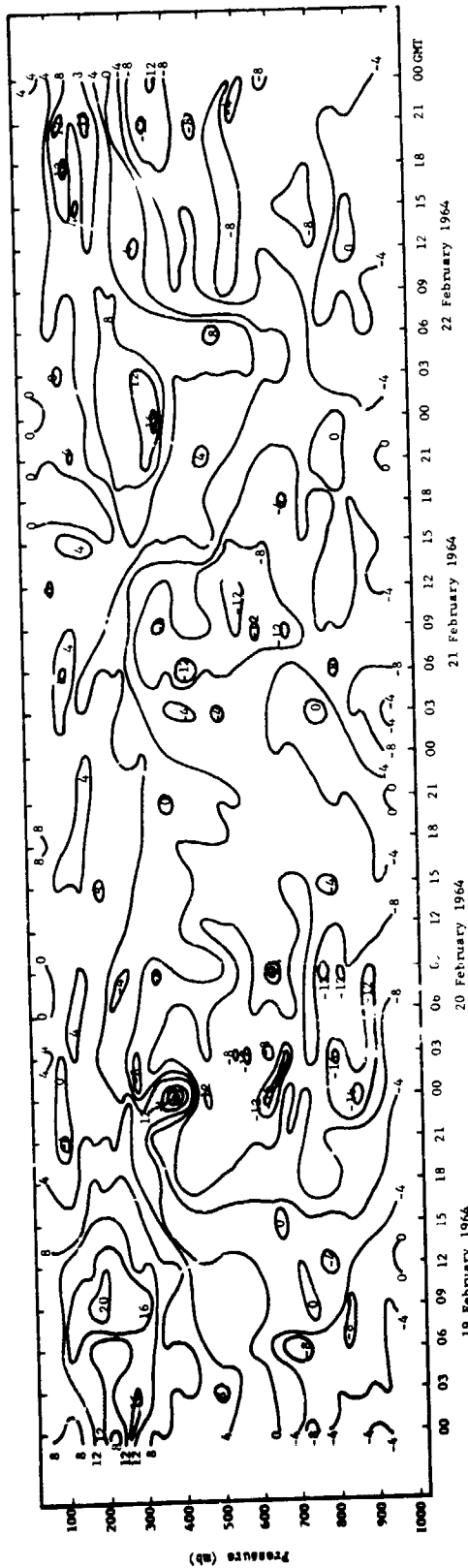


Dewpoint Temperature (°C) for Nashville, Tennessee, Station Number 33013

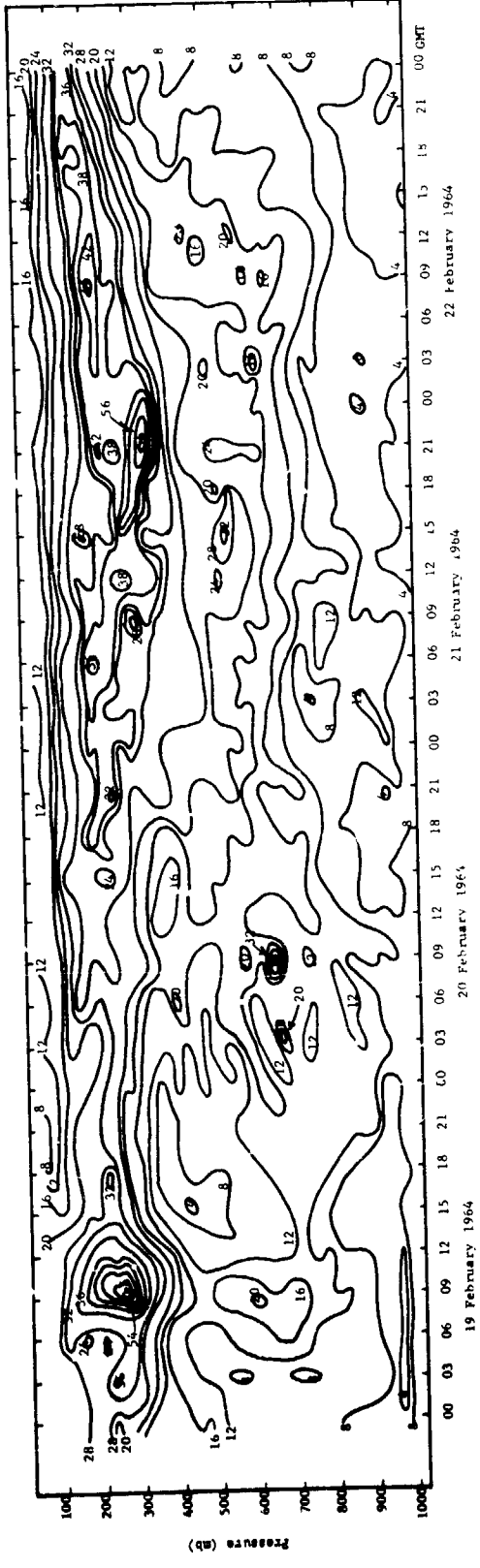


Zonal Wind Component (m/sec) for Nashville, Tennessee, Station Number 33013

NOTE: Interval not constant

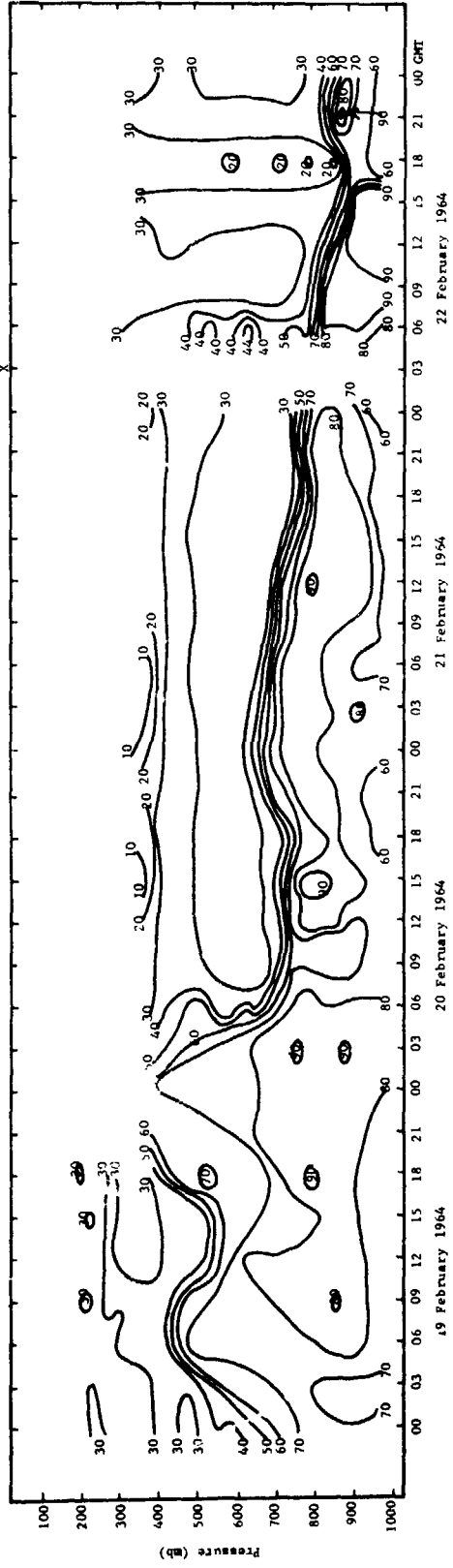


Meridional Wind Component (m/sec) for Nashville, Tennessee, Station Number 33013

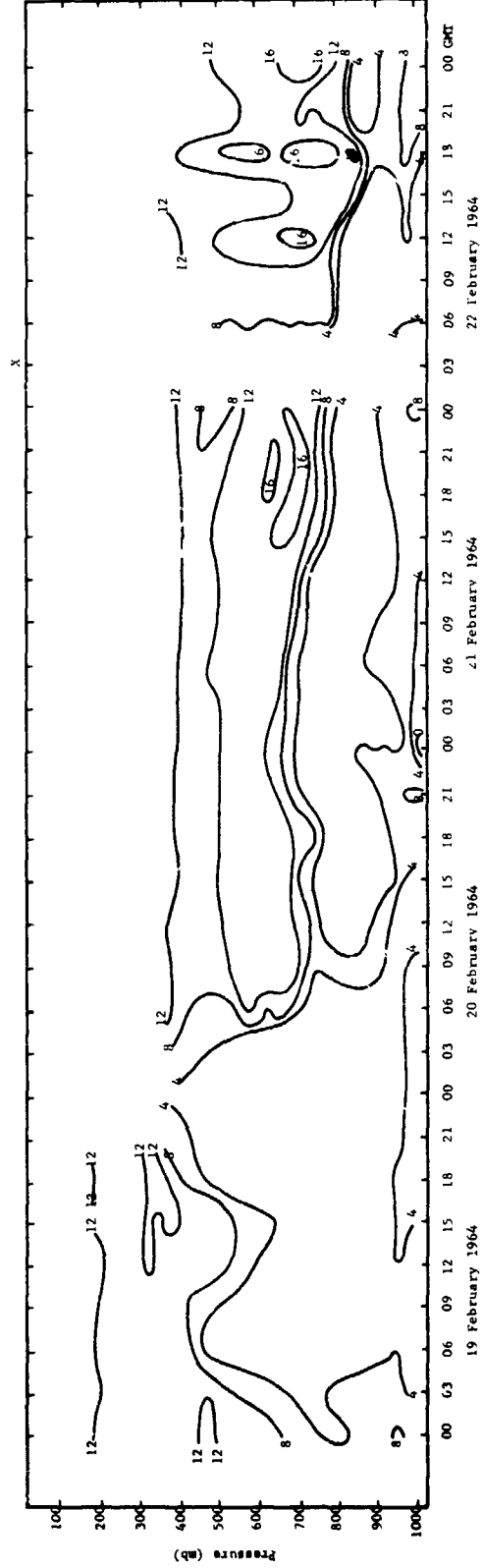


Wind Speed (m/sec) for Nashville, Tennessee, Station Number 33013

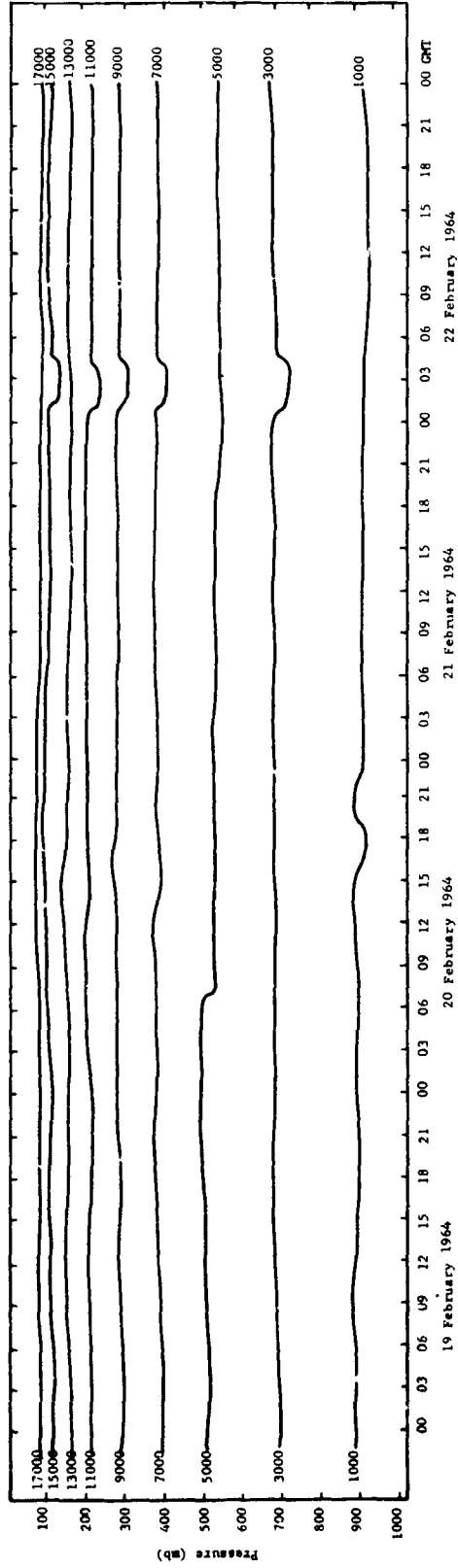
NOTE: Interval not constant



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



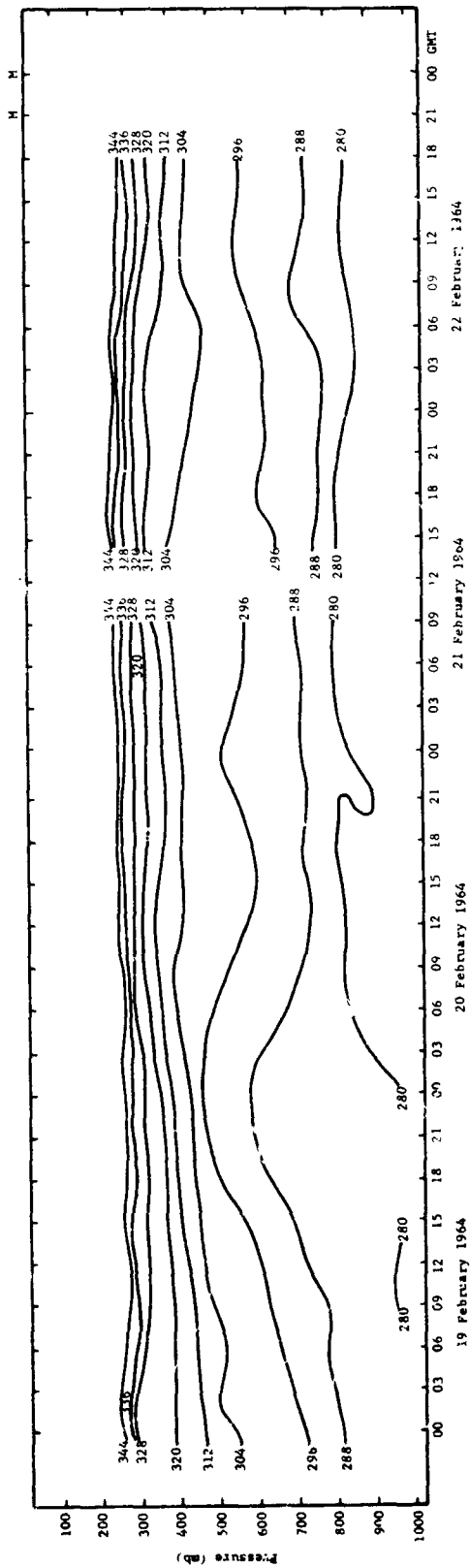
Dewpoint Depression (°C) for Nashville, Tennessee, Station Number 33013



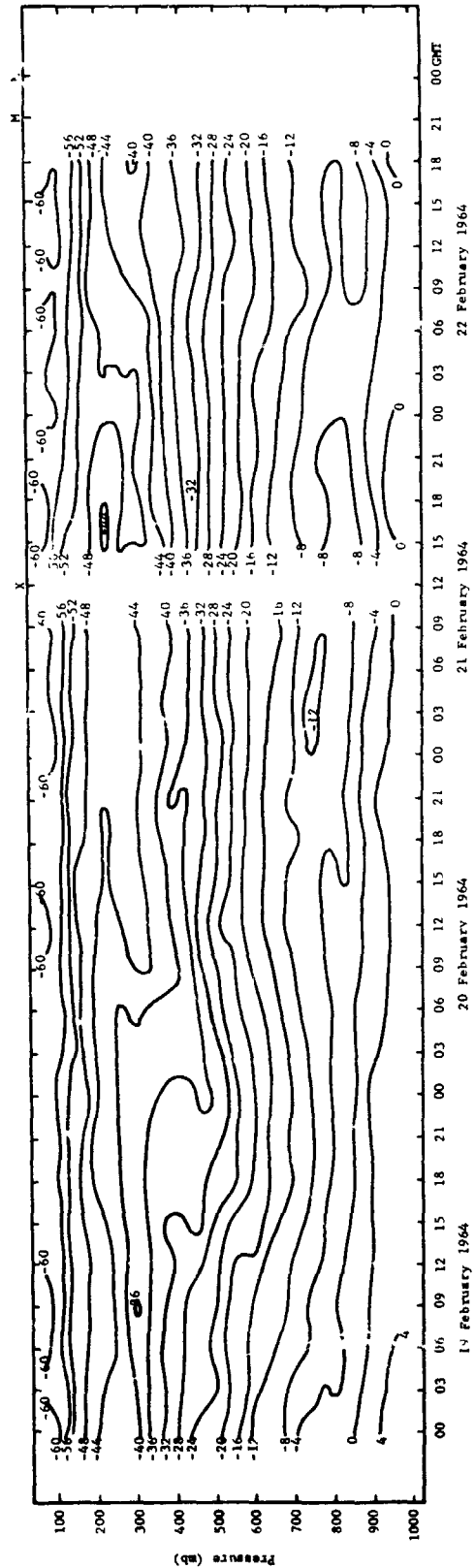
Height (gpm) for Nashville, Tennessee, Station Number 33013

Station Number 33014

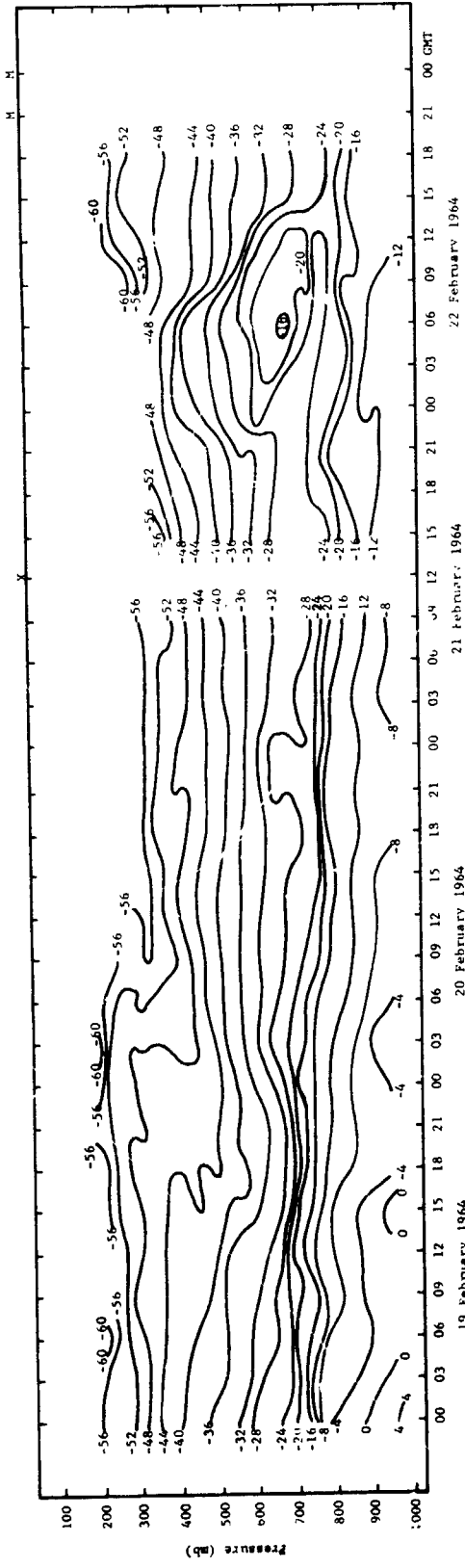
Athens, Georgia



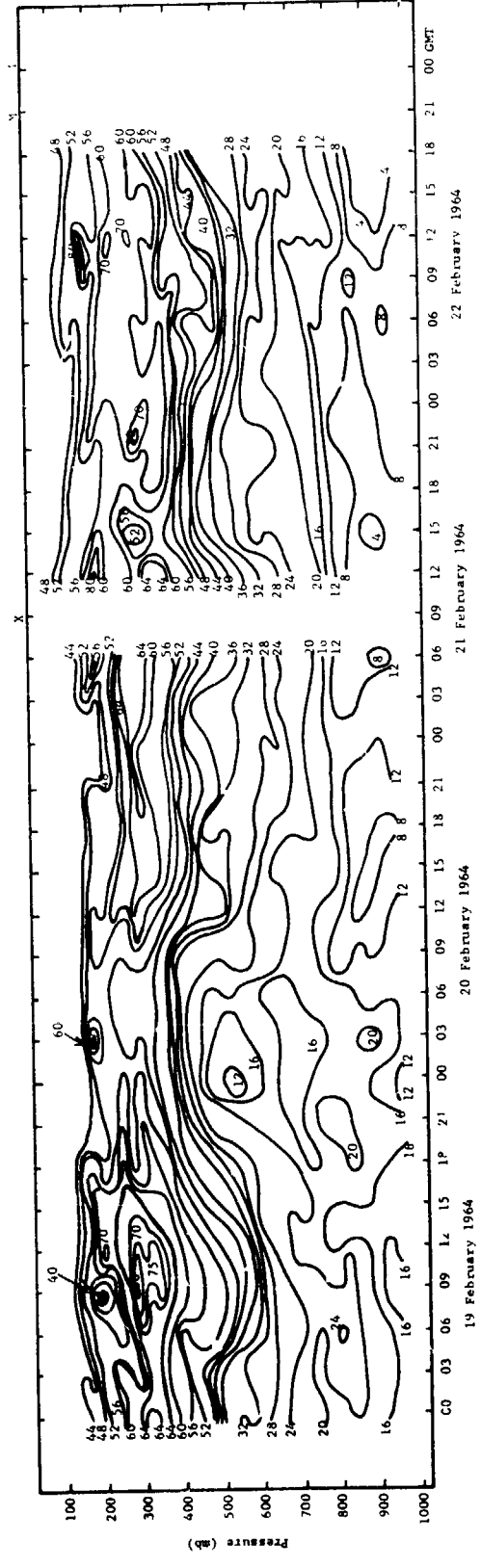
Potential Temperature ($^{\circ}\text{K}$) for Athens, Georgia, Station Number 33014



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

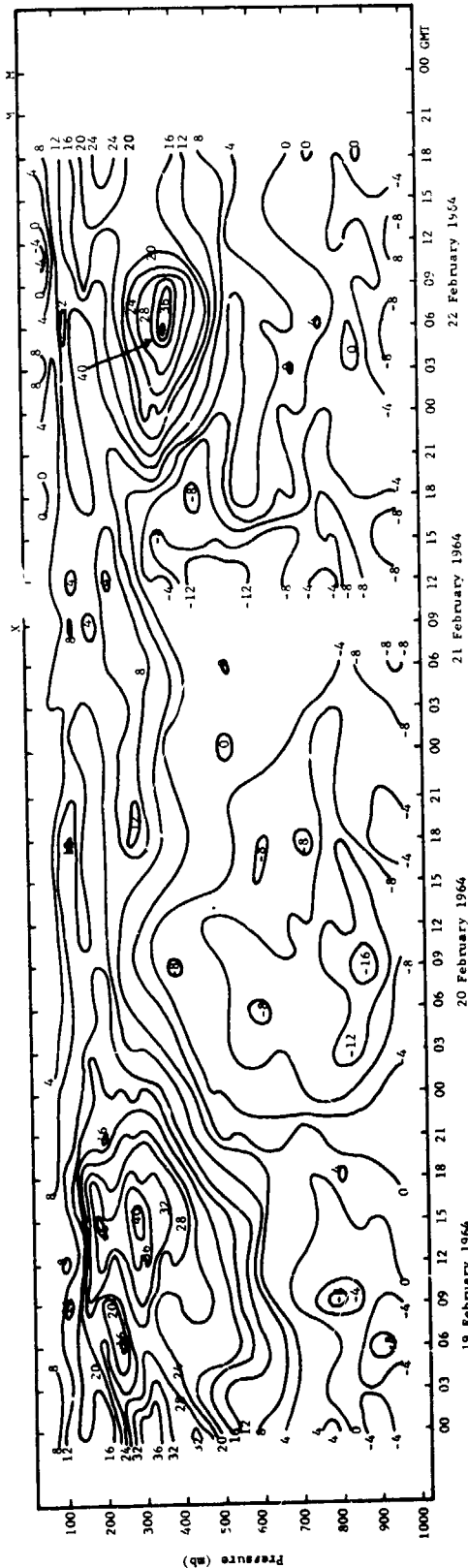


Dewpoint Temperature (°C) for Athens, Georgia, Station Number 33014

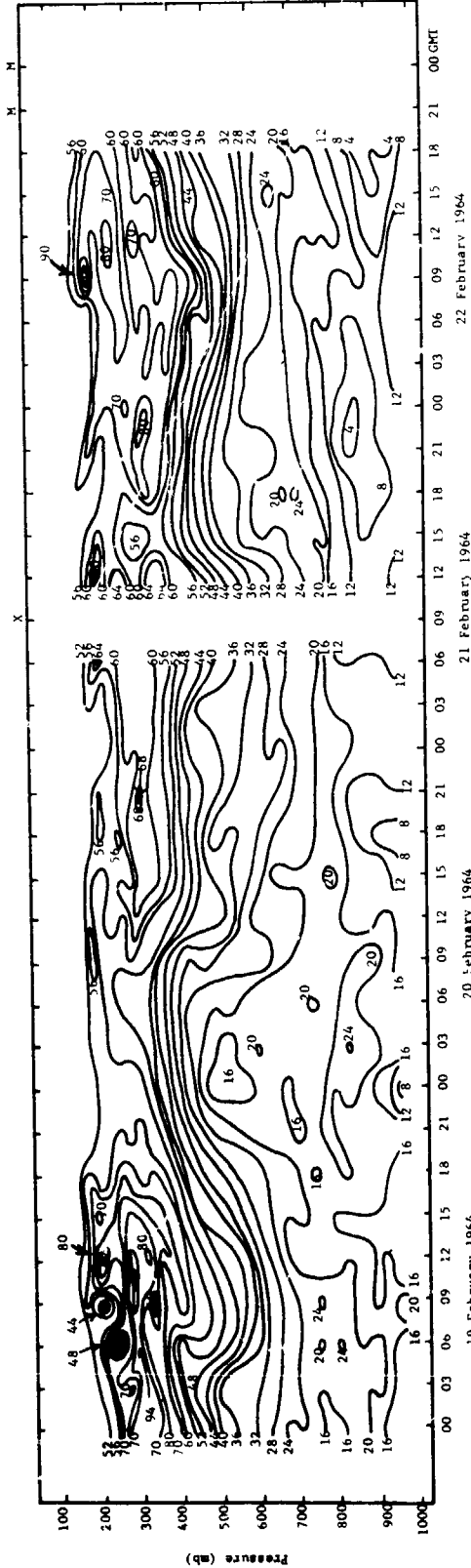


Zonal Wind Component (m/sec) for Athens, Georgia, Station Number 33014

NOTE: Interval not constant

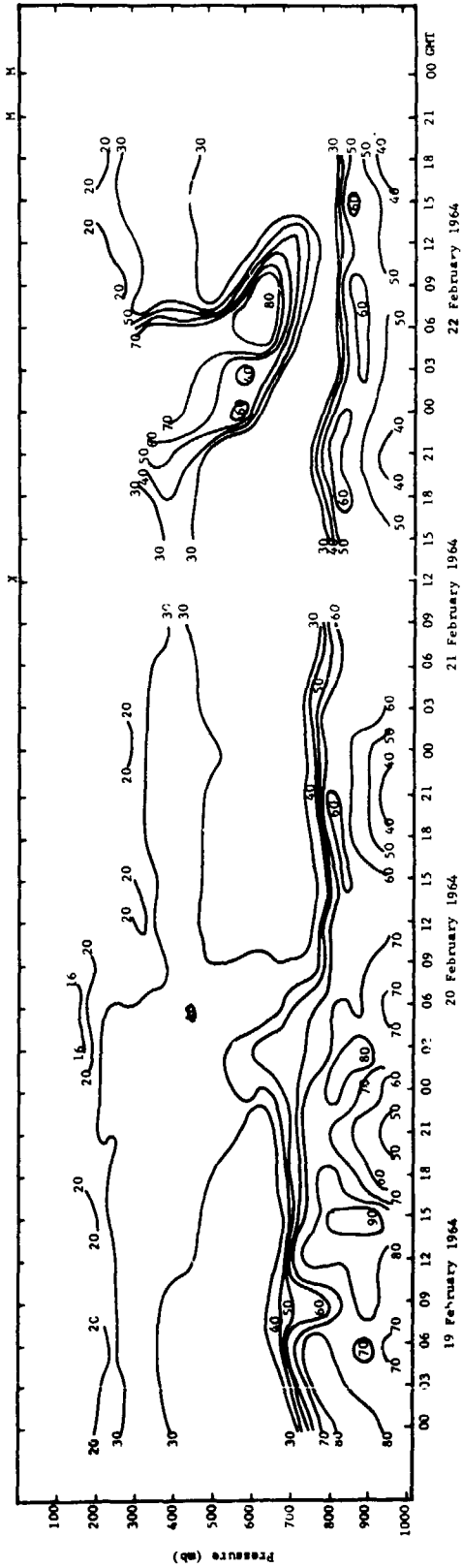


Meridional Wind Component (m/sec) for Athens, Georgia, Station Number 33014

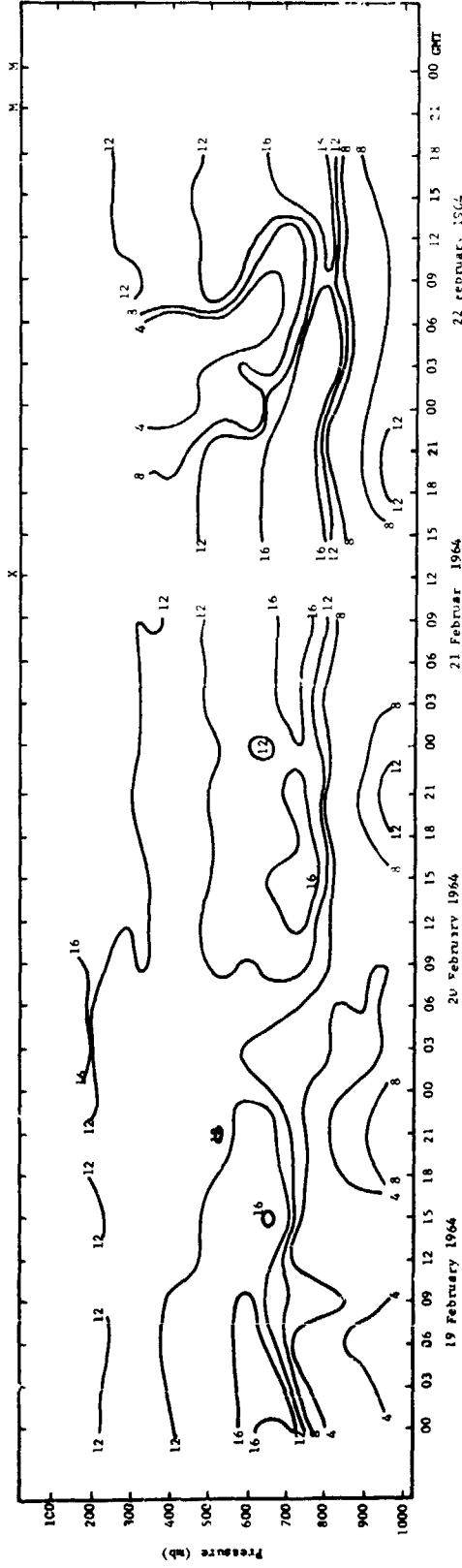


Wind Speed (m/sec) for Athens, Georgia, Station Number 33014

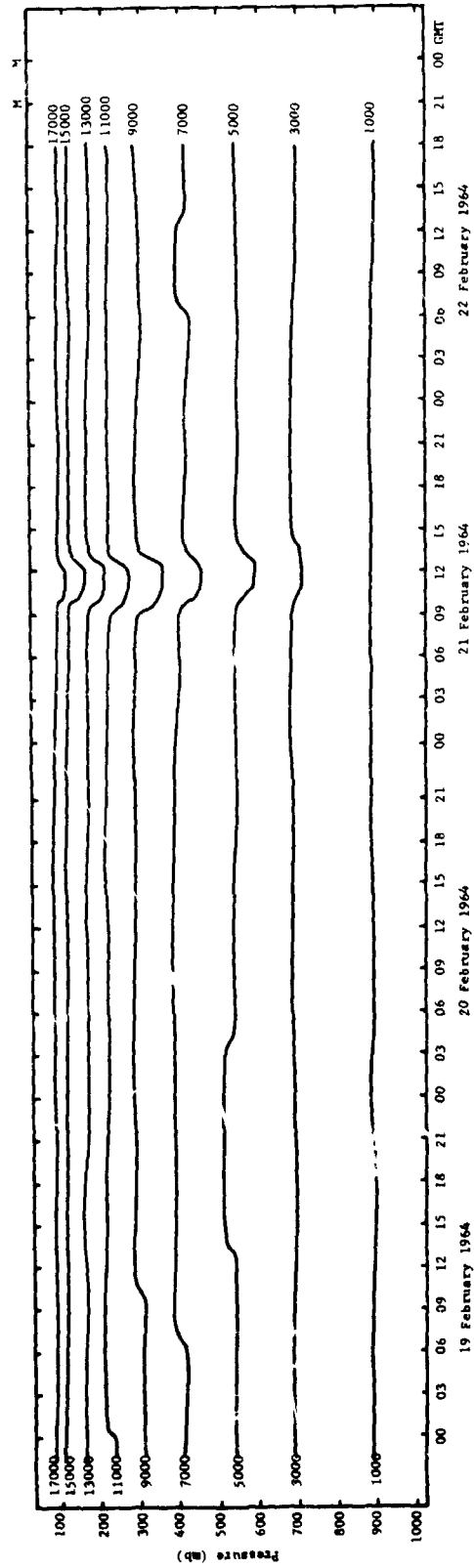
NOTE: Interval not constant



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



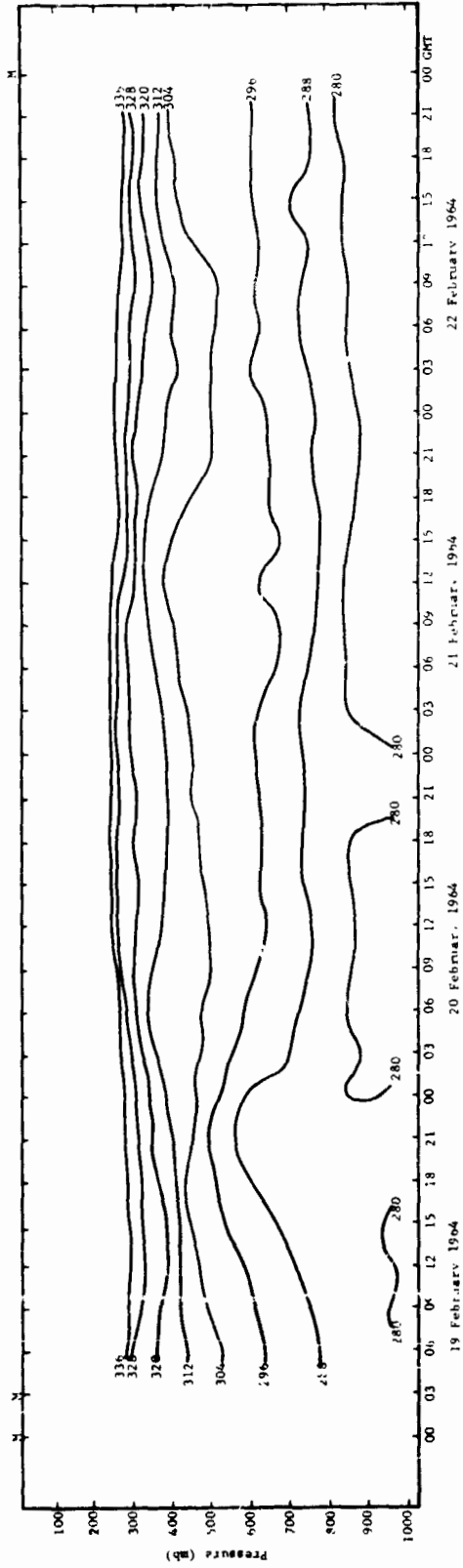
Dewpoint Depression (°C) for Athens, Georgia, Station Number 33014



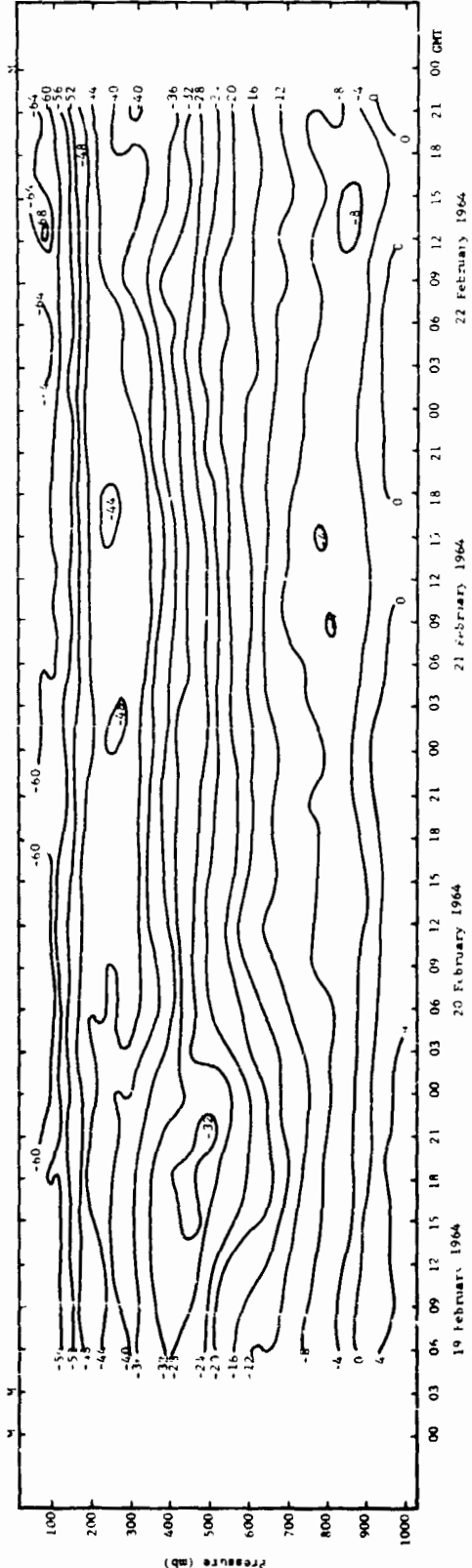
Height (gpm) for Athens, Georgia, Station Number 33014

Station Number 33015

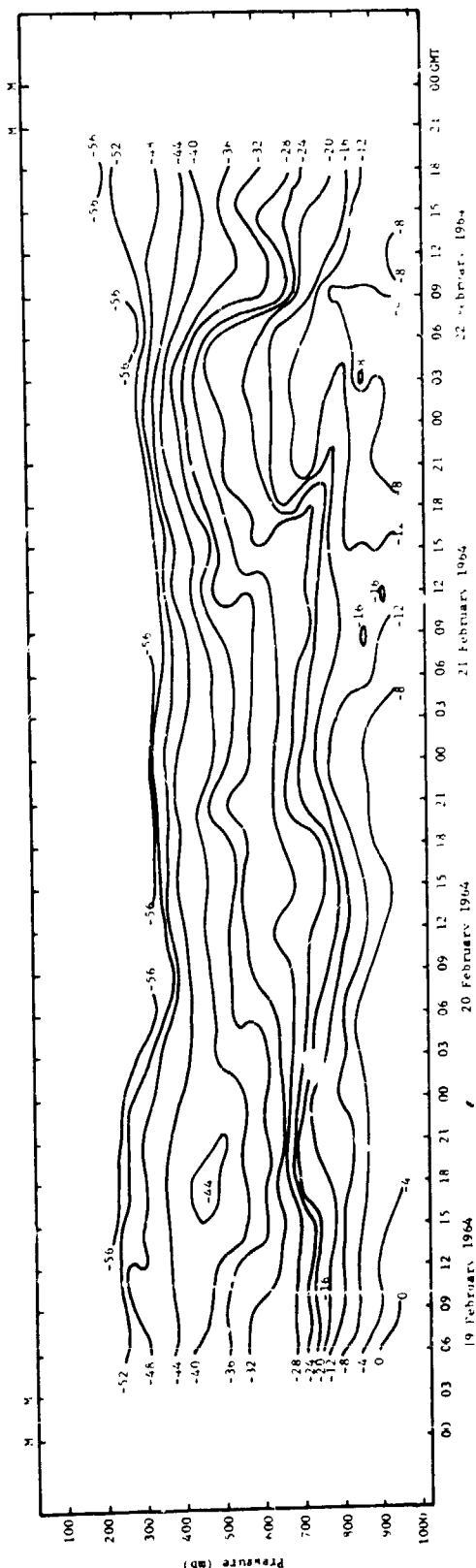
Montgomery, Alabama



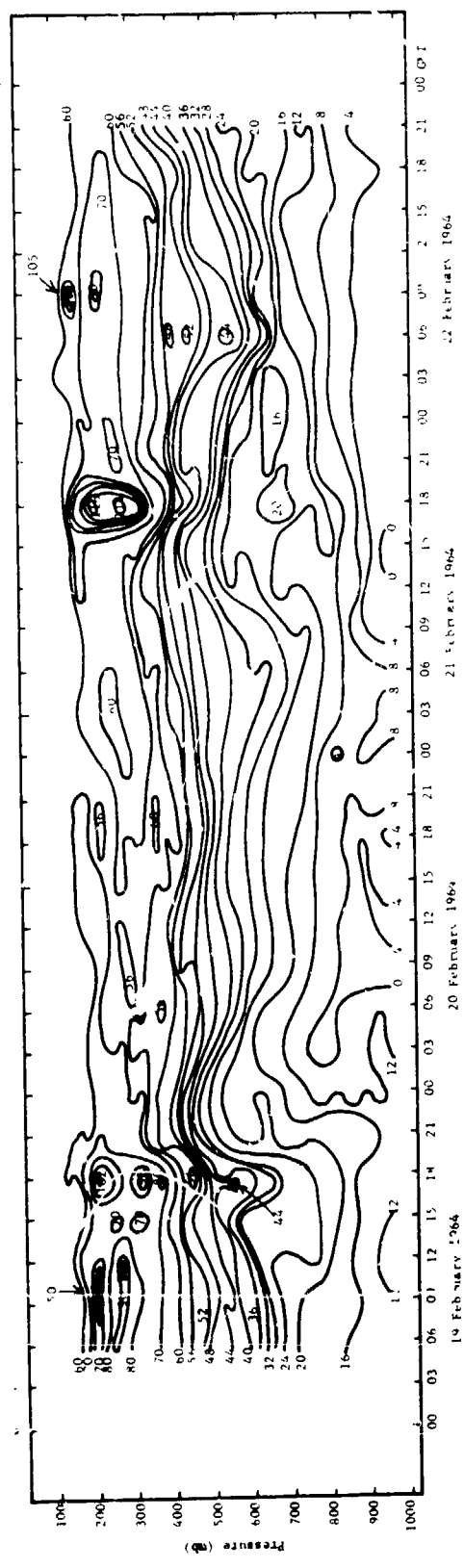
Potential Temperature (K) for Montgomery, Alabama, Station Number 33015



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

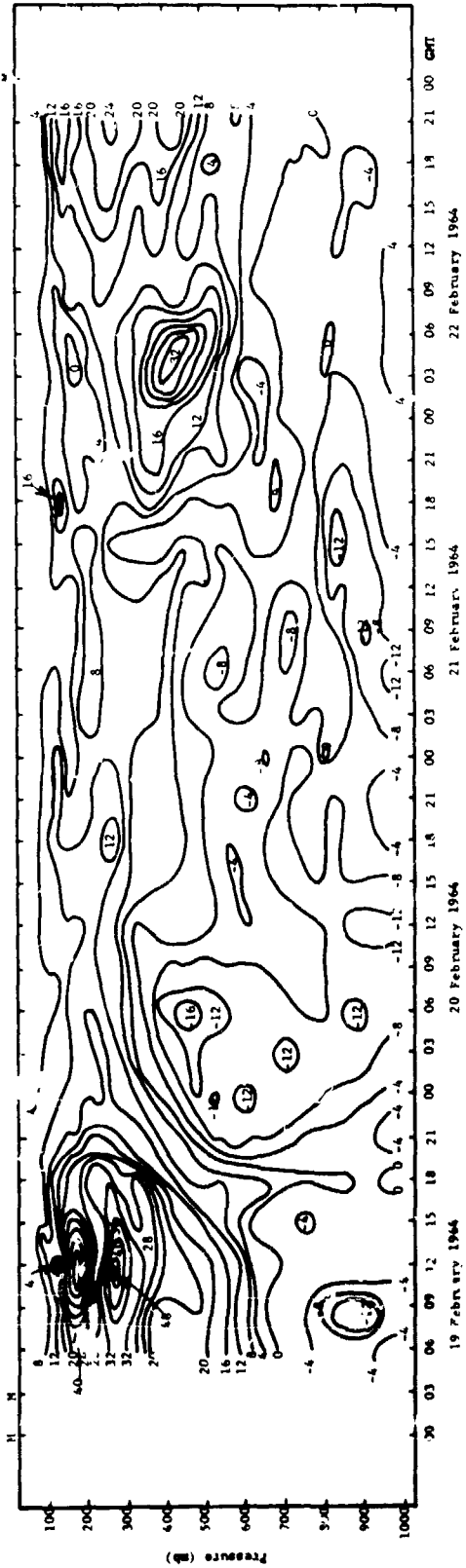


Dewpoint Temperature (°C) for Montgomery, Alabama, Station Number 33015

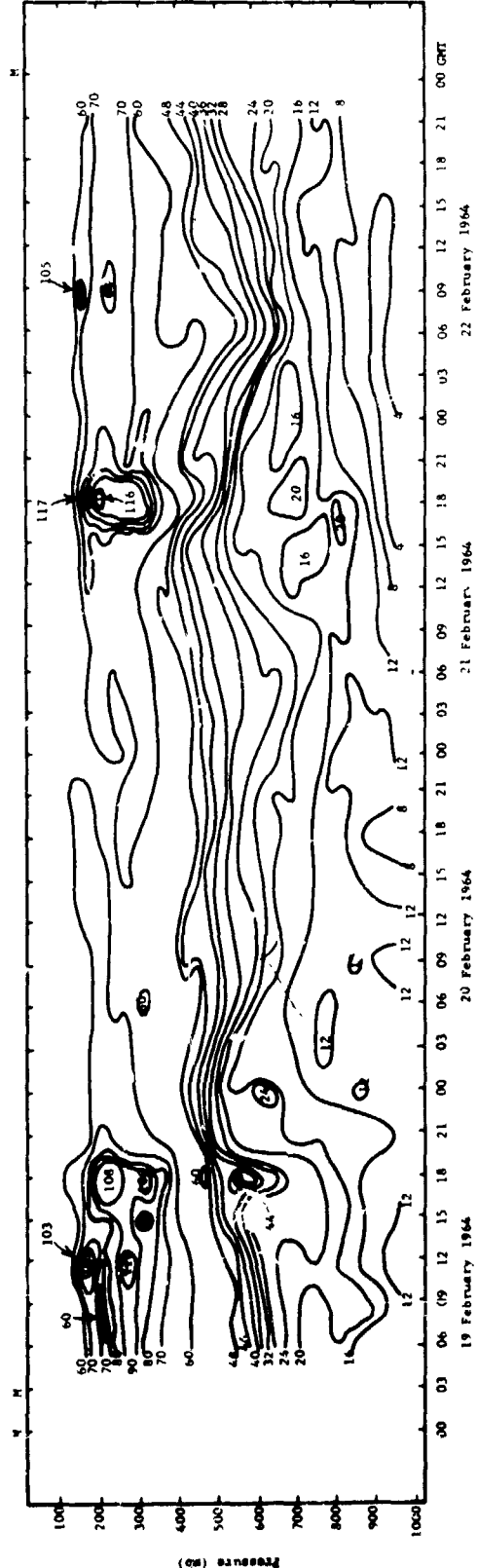


NOTE: interval not constant

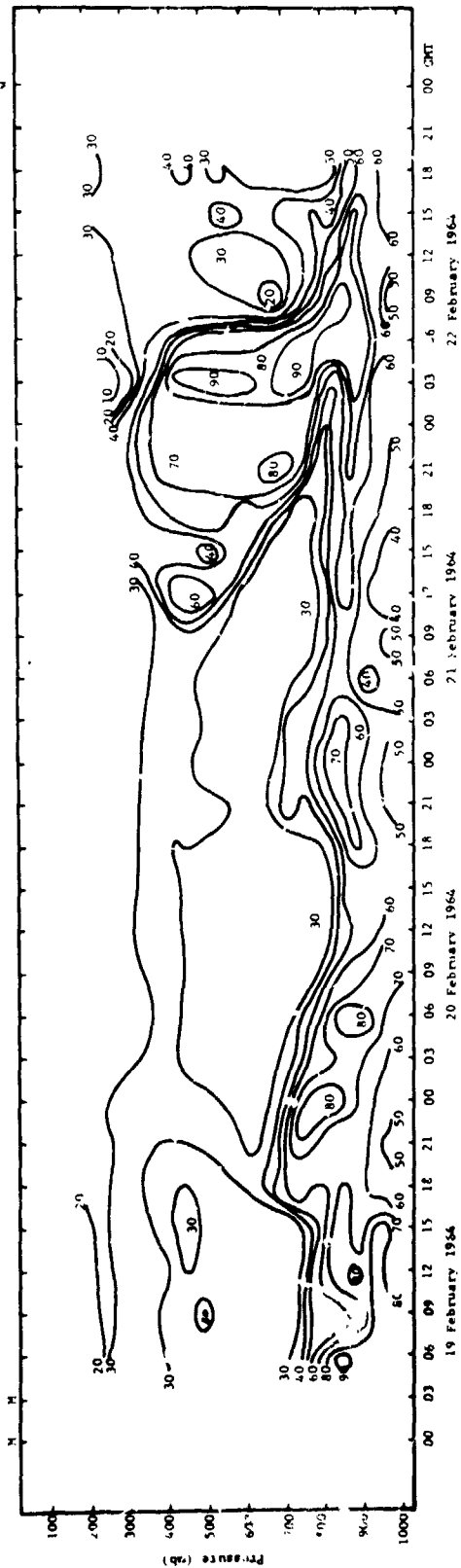
Zonal Wind Component (m/sec) for Montgomery, Alabama, Station Number 33015



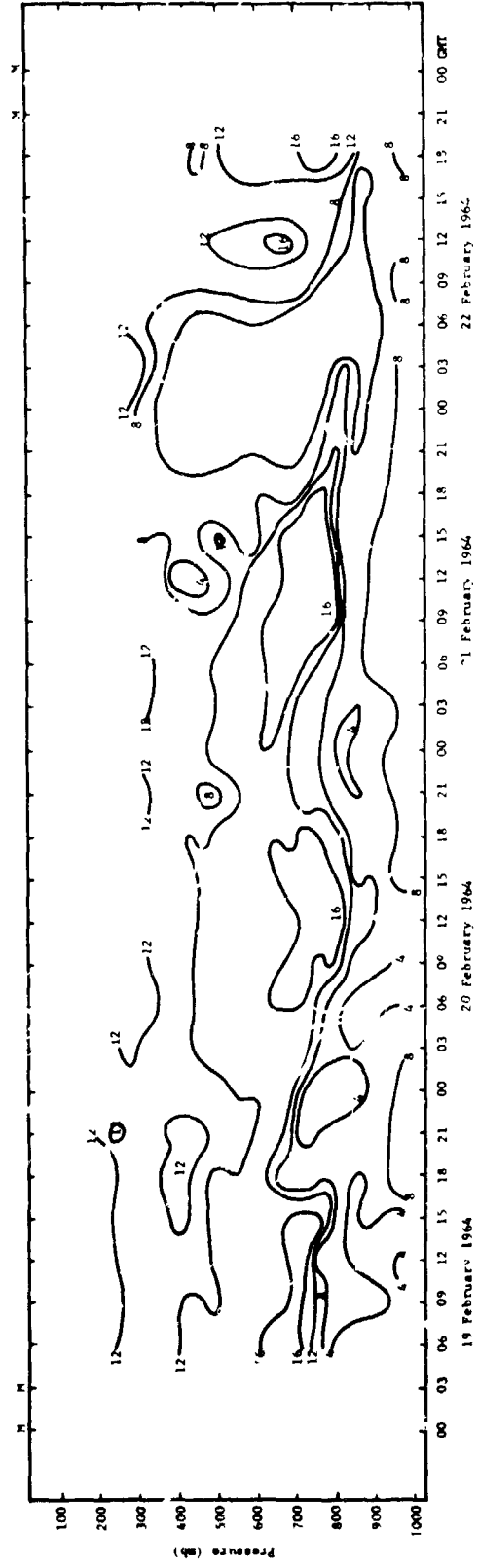
Meridional Wind Component (m/sec) for Montgomery, Alabama, Station Number 33015



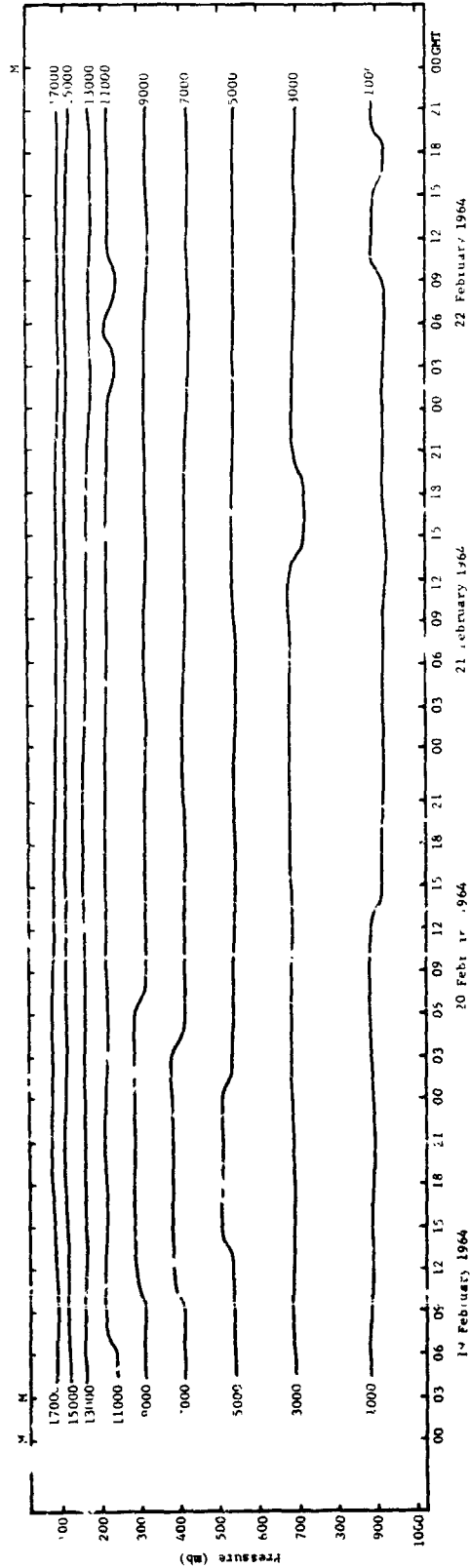
Wind Speed (m/sec) for Montgomery, Alabama, Station Number 33015



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



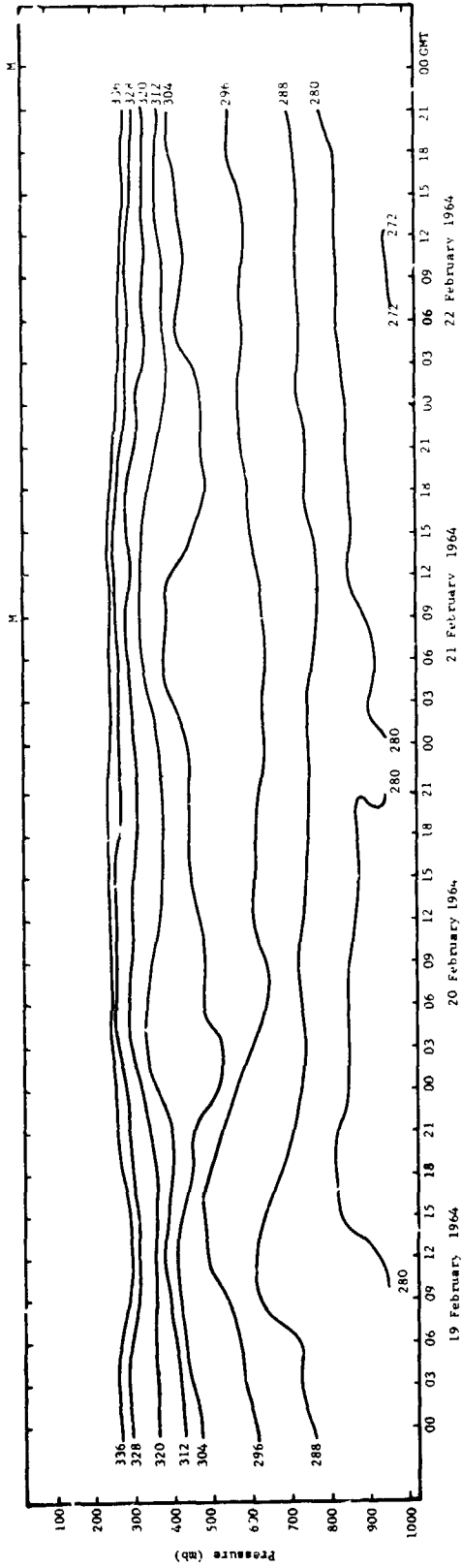
Dewpoint depression (°C) for Montgomery, Alabama, Station Number 33015



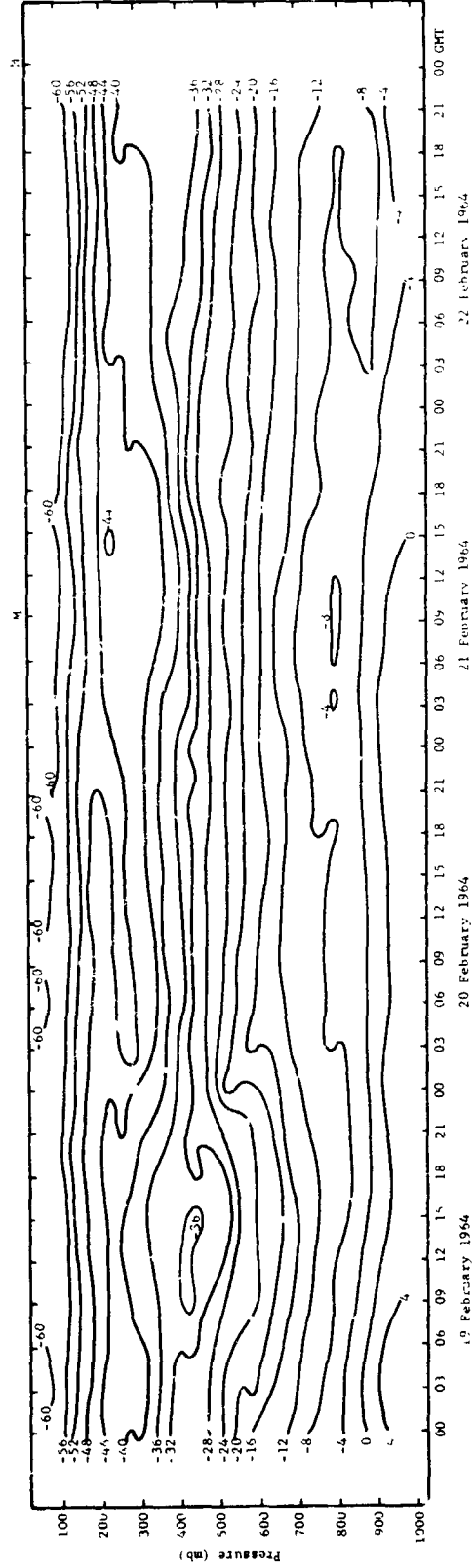
Height (gpm) for Montgomery, Alabama Station Number 33015

Station Number 33016

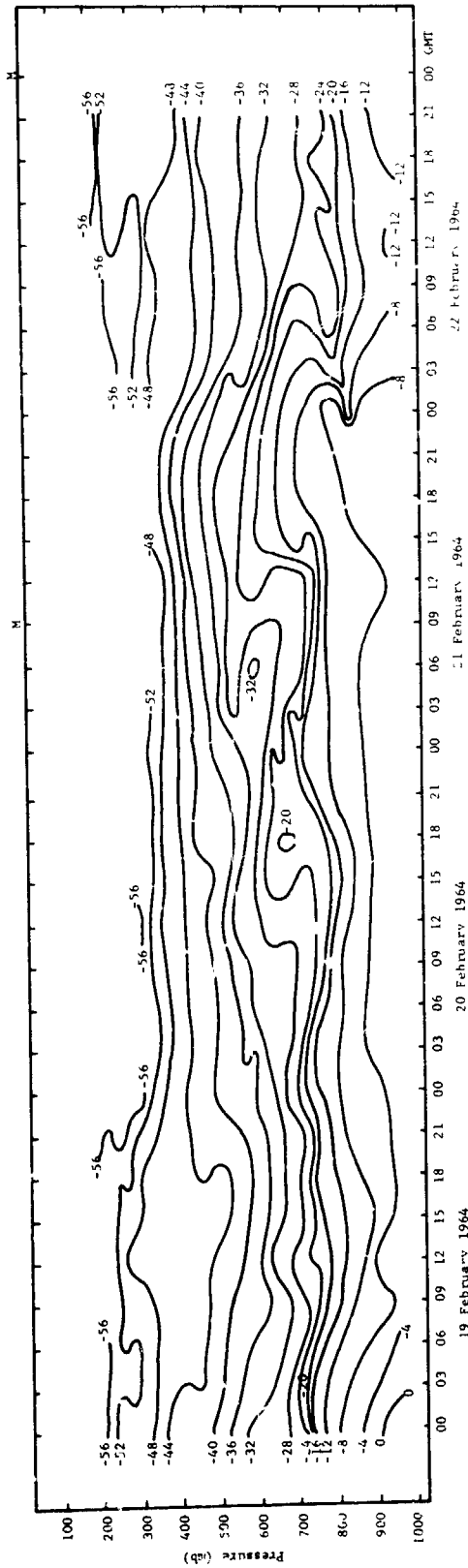
Jackson, Mississippi



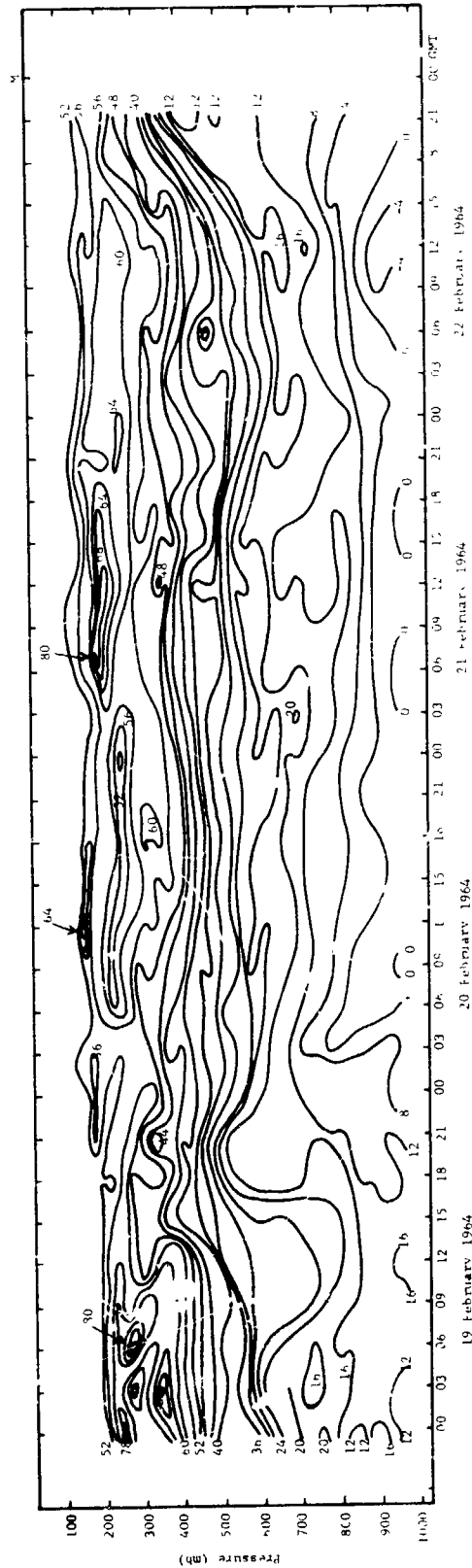
Potential temperature (K) for Jackson, Mississippi, Station Number 33016



Temperature (C) for Jackson, Mississippi, Station Number 33016

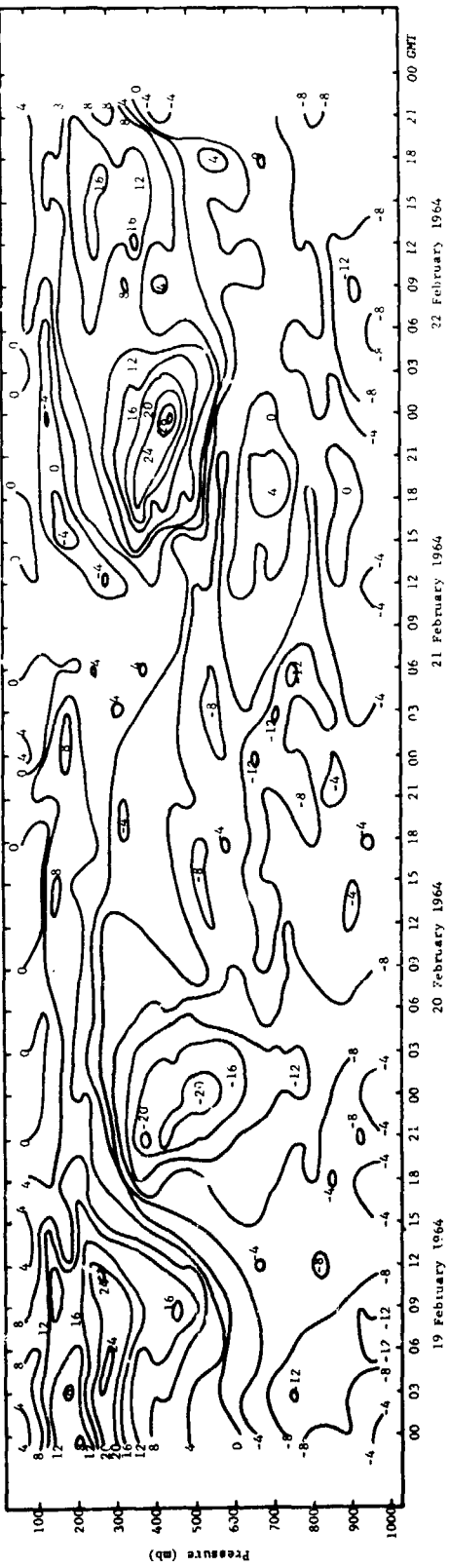


Dewpoint Temperature (°C) for Jackson, Mississippi, Station Number 33016

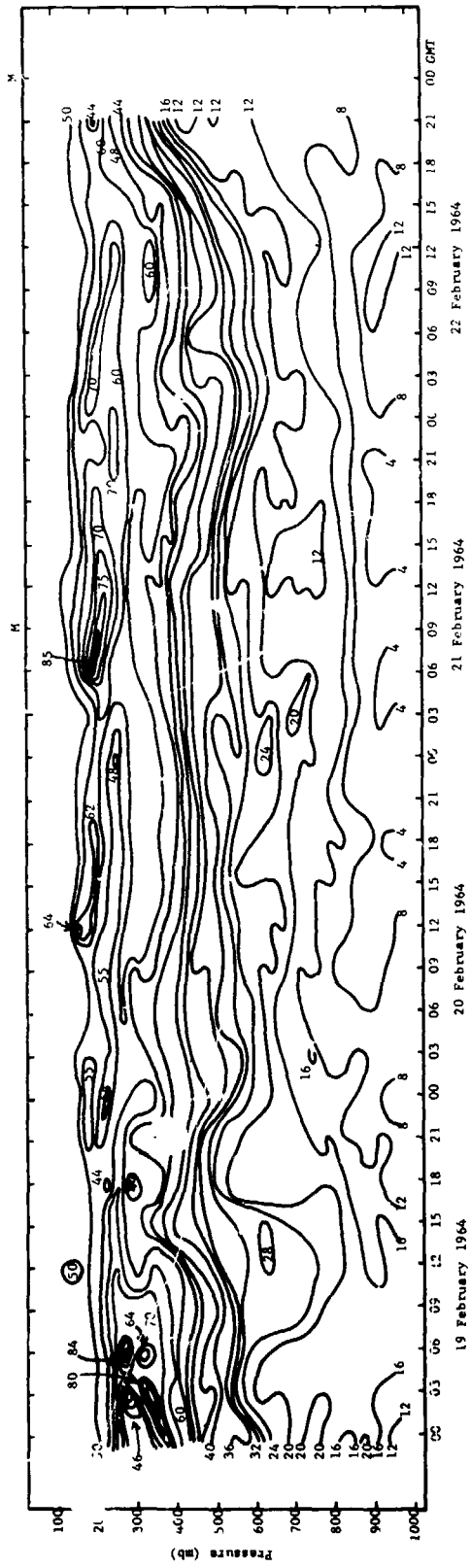


NOTE: Interval not constant

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

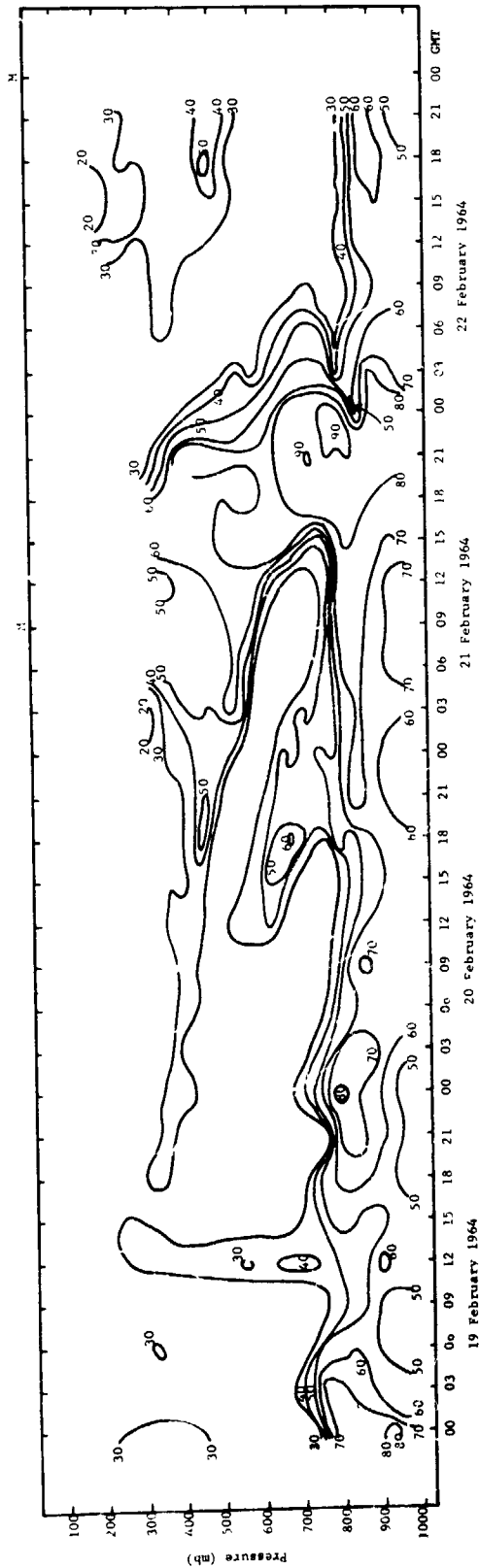


Meridional Wind Component (m/sec) for Jackson, Mississippi, Station Number 33016

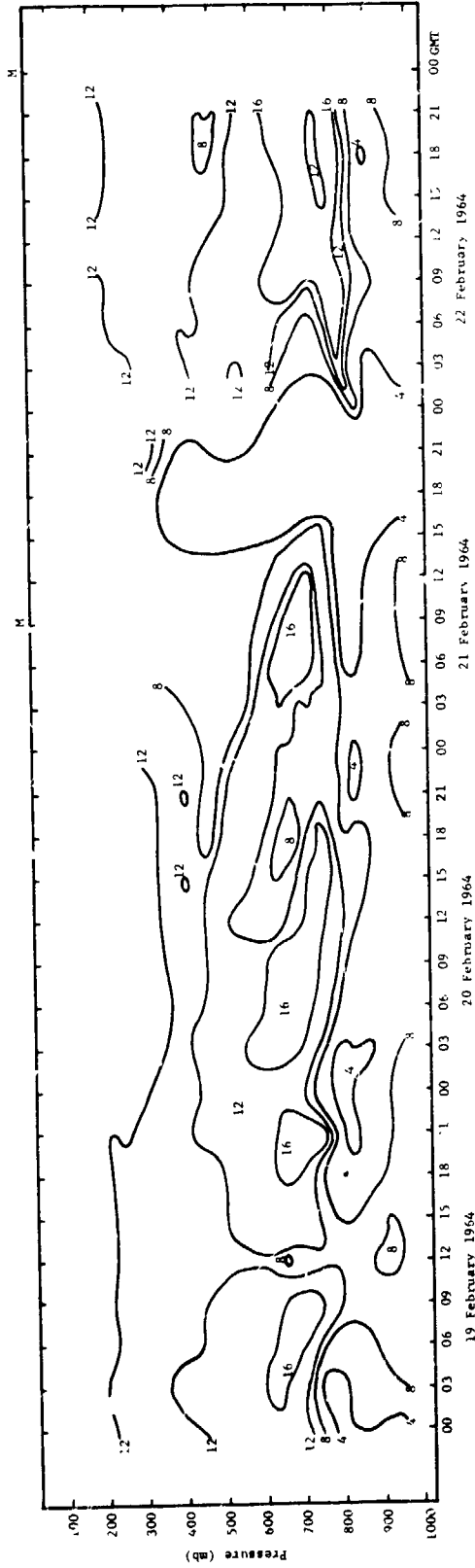


NOTE: Interval not constant

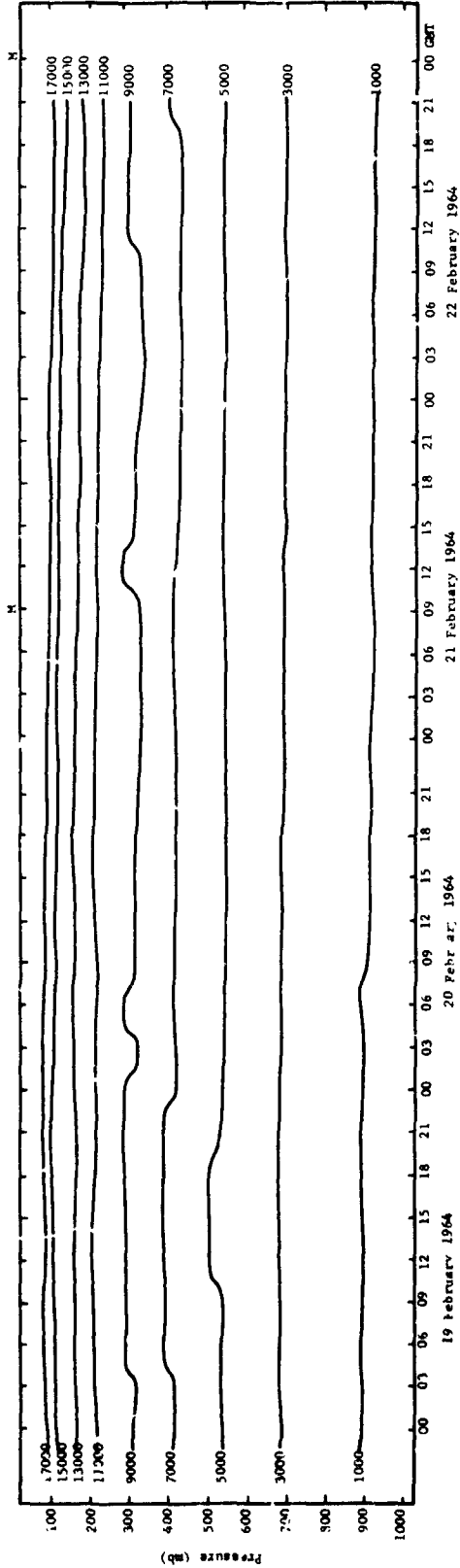
Wind Speed (m/sec) for Jackson, Mississippi, Station Number 33016



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



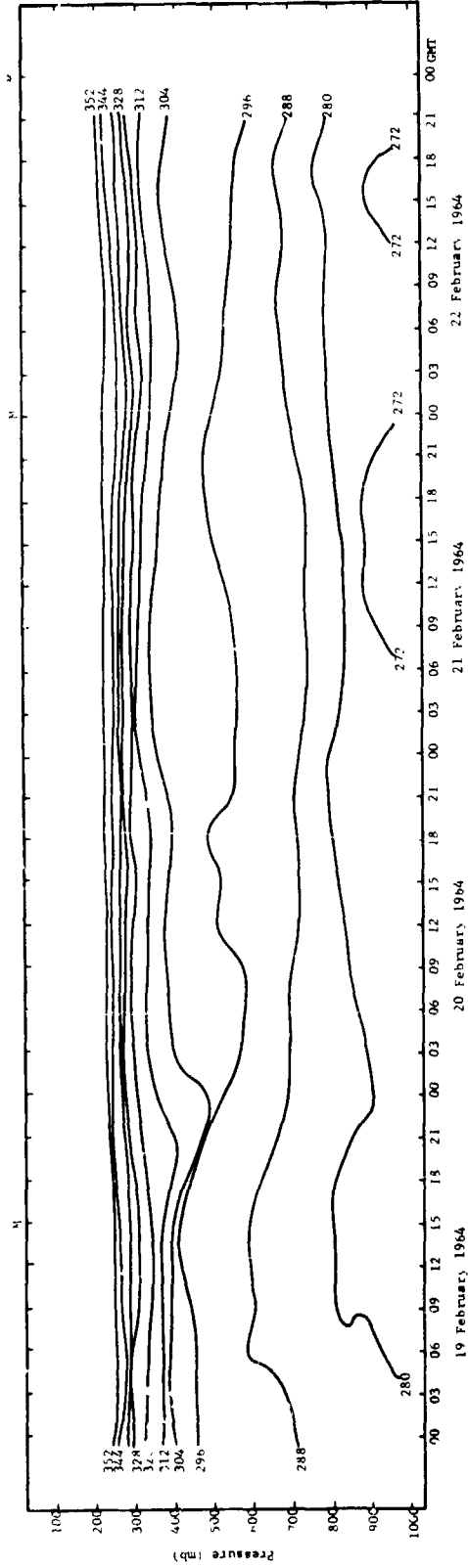
Dewpoint Depression ($^{\circ}$ C) for Jackson, Mississippi, Station Number 33016



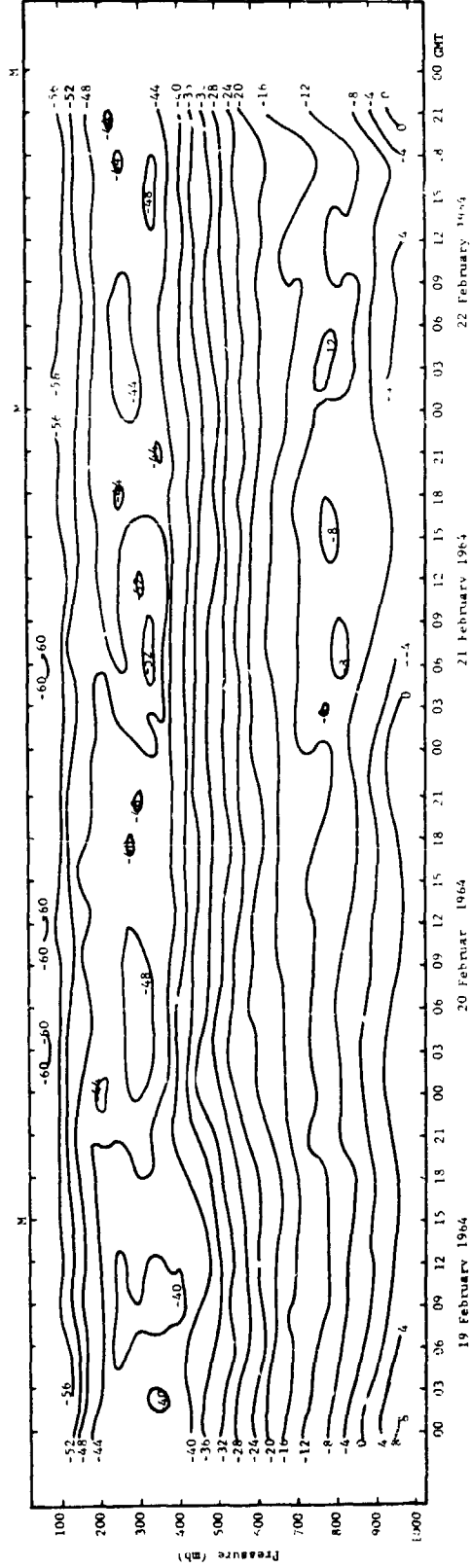
Height (gpm) for Jackson, Mississippi, Station Number 33016

Station Number 33017

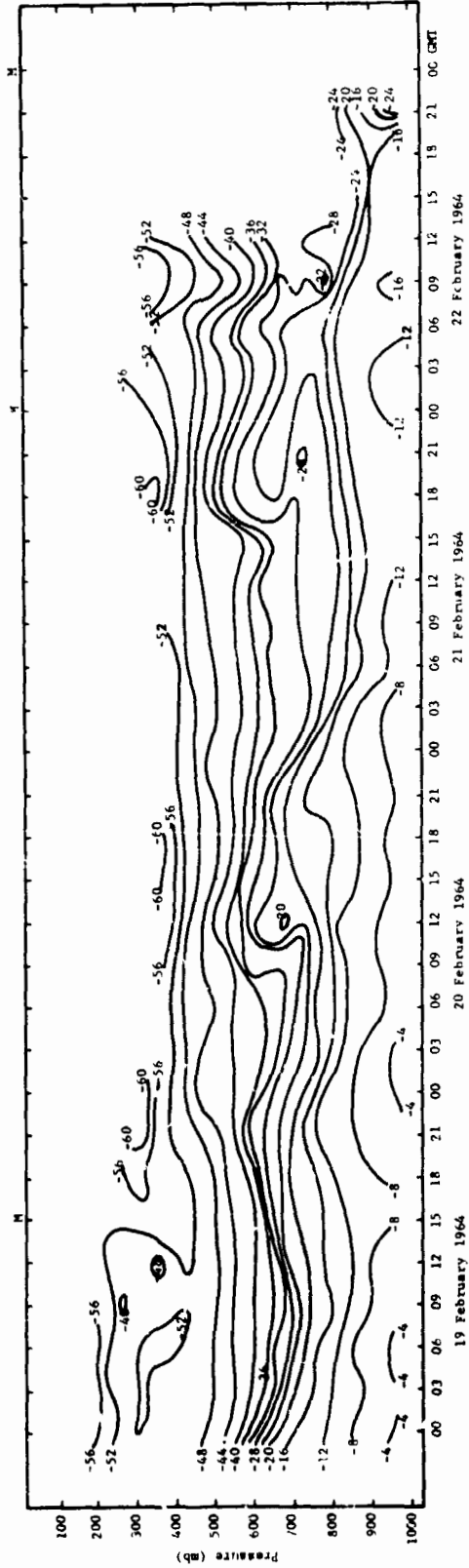
Little Rock, Arkansas



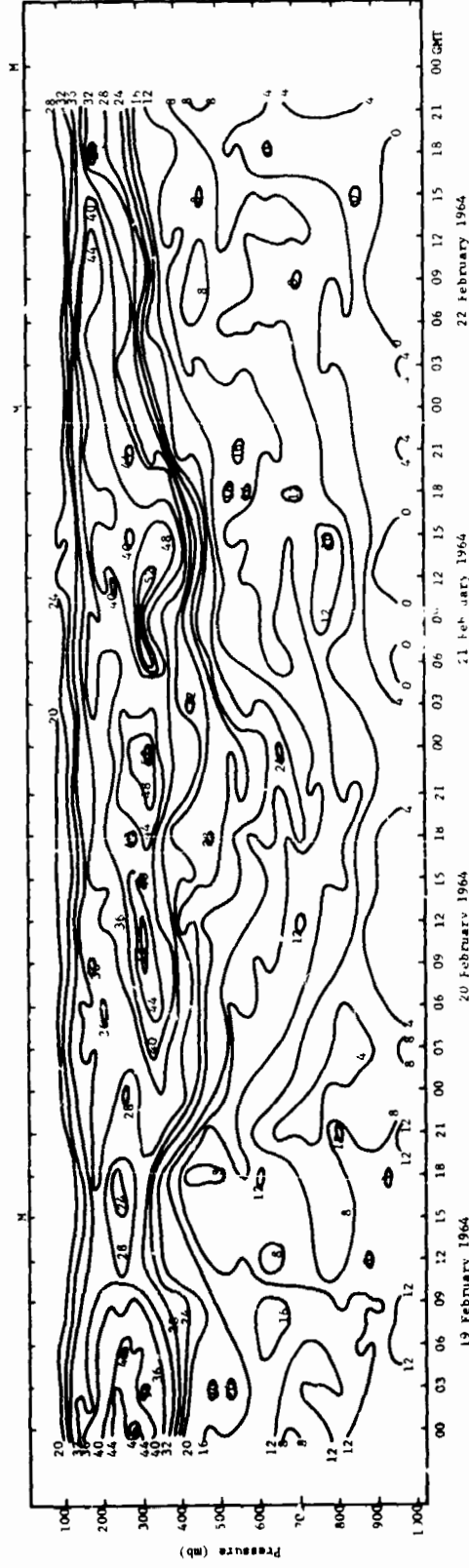
Potential Temperature (K) for Little Rock, Arkansas, Station Number 33017



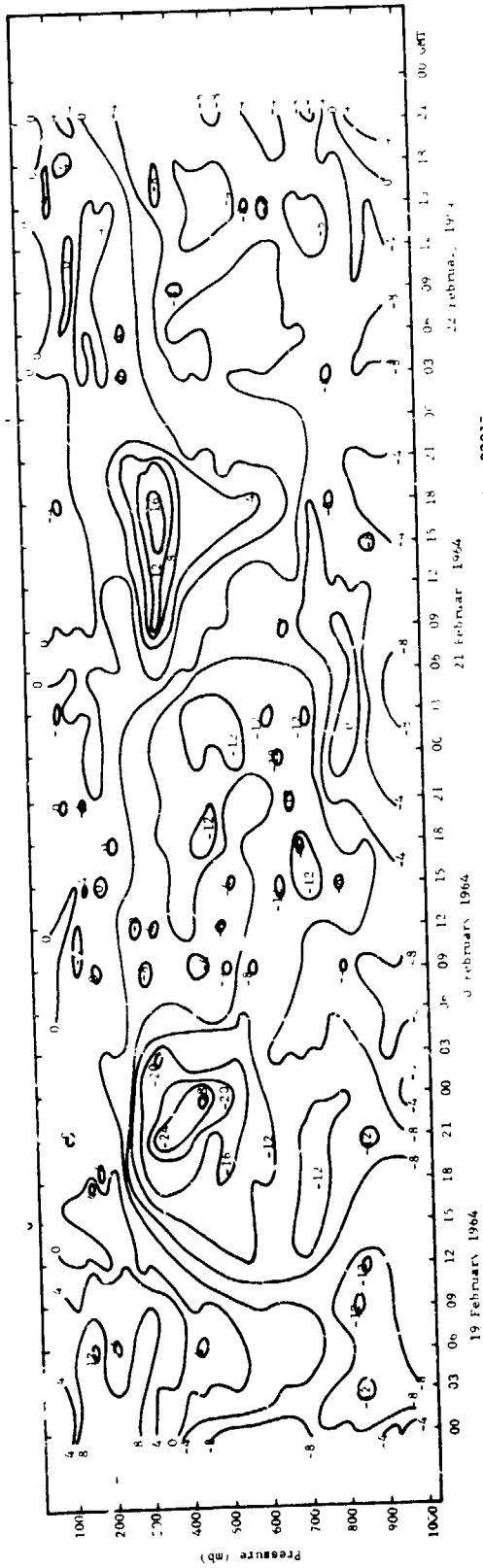
Temperature (C) for Little Rock, Arkansas, Station Number 33017



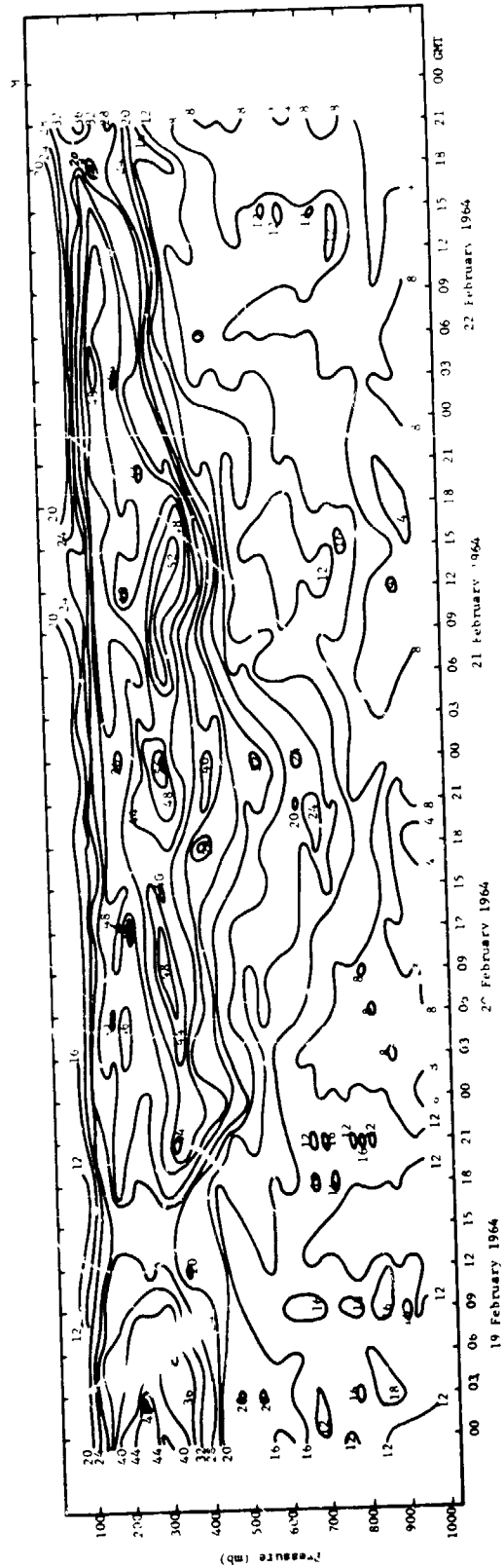
Dewpoint Temperature ($^{\circ}$ C) for Little Rock, Arkansas, Station Number 33017



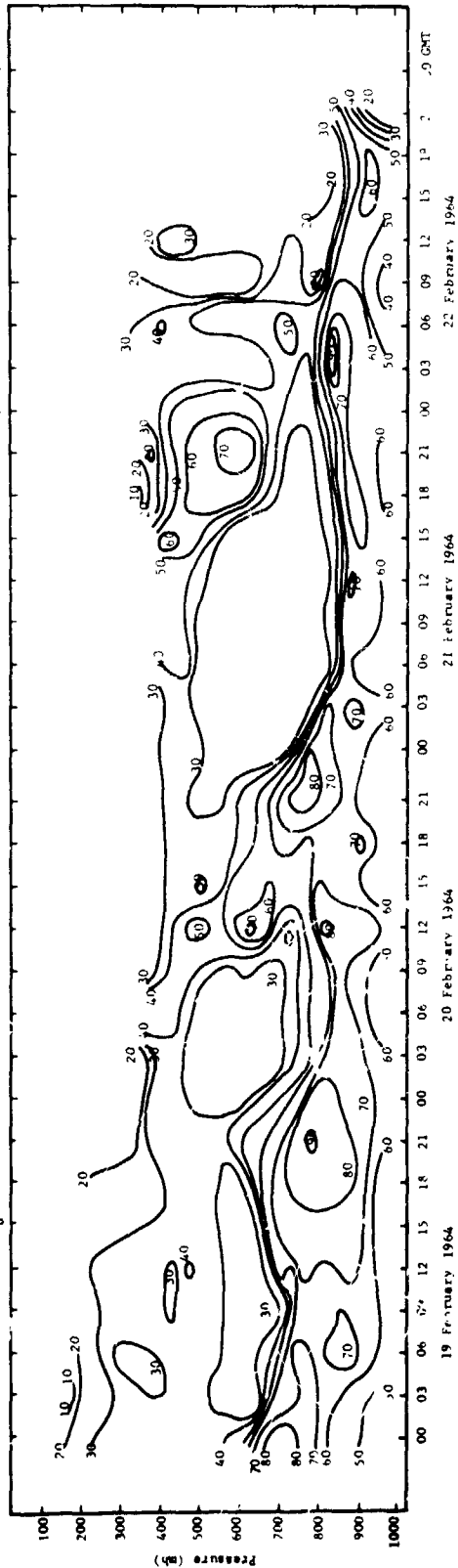
Zonal Wind Component (m/sec) for Little Rock, Arkansas, Station Number 33017



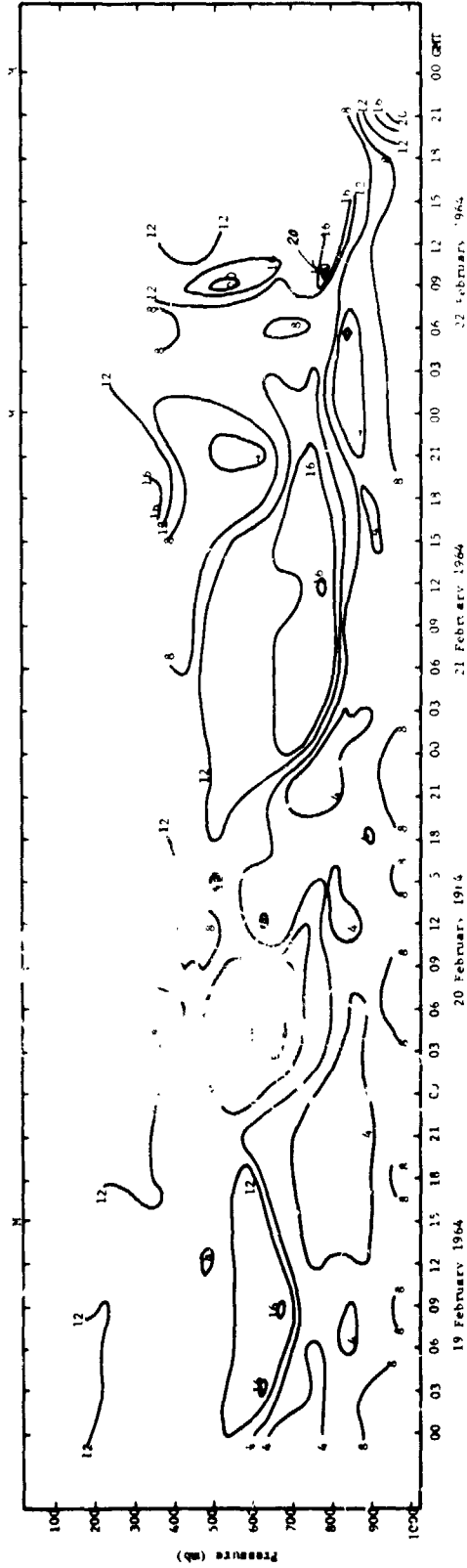
Meridional Wind Component (m/sec) for Little Rock, Arkansas, Station Number 33017



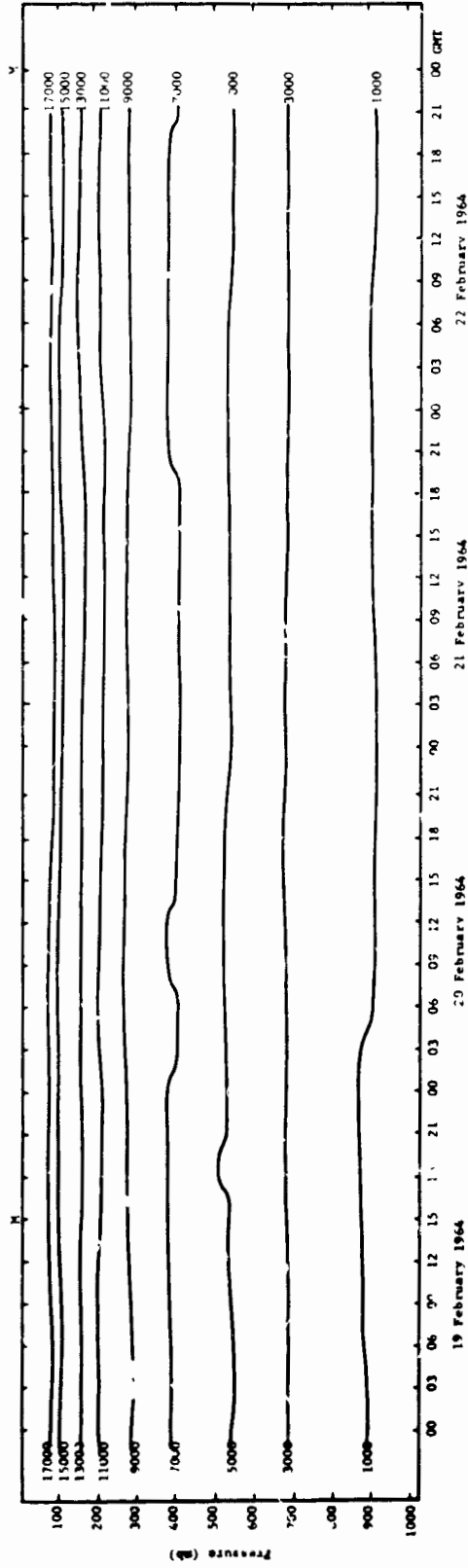
Wind Speed (m/sec) for Little Rock, Arkansas, Station Number 33017



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



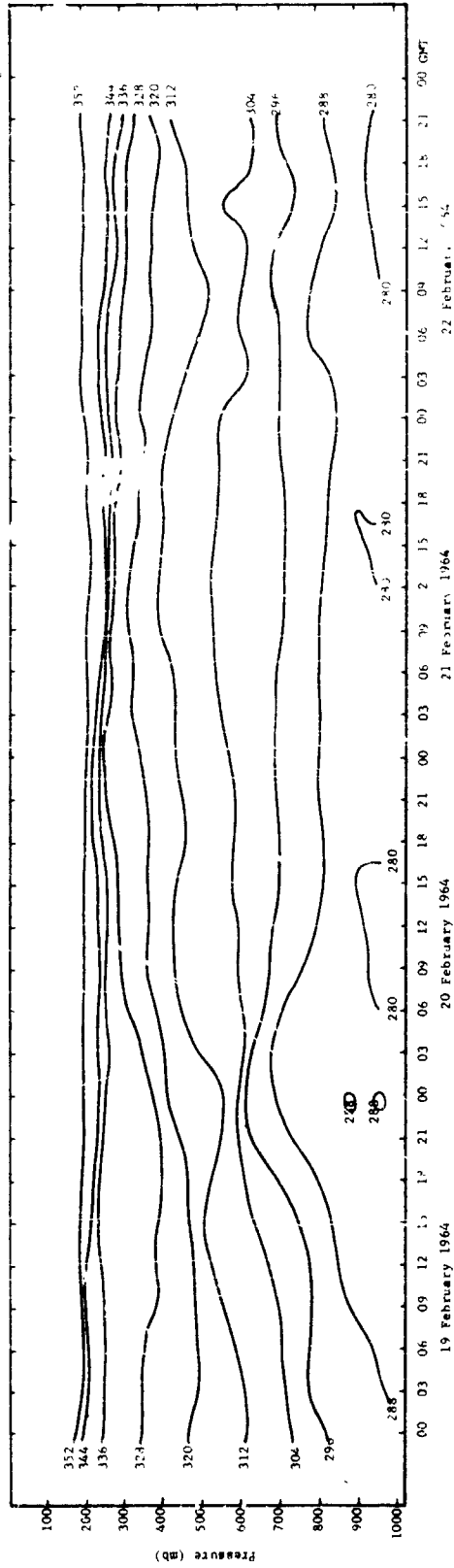
Dewpoint Depression (°C) for Little Rock, Arkansas, Station Number 33017



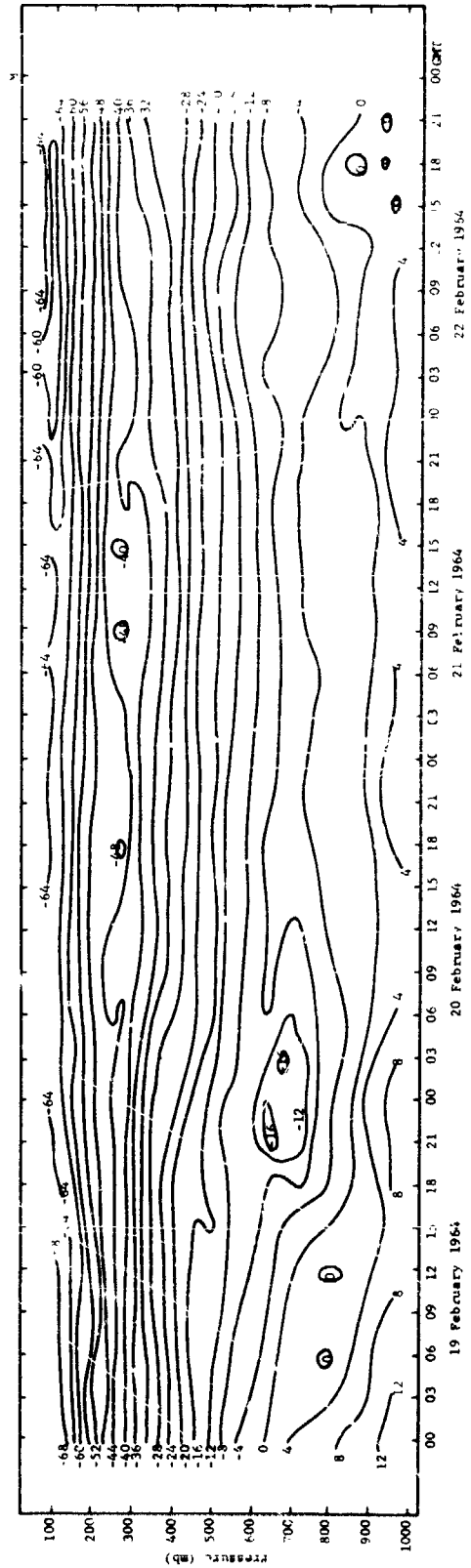
Height (gpm) for Little Rock, Arkansas, Station Number 33017

Station Number 33018

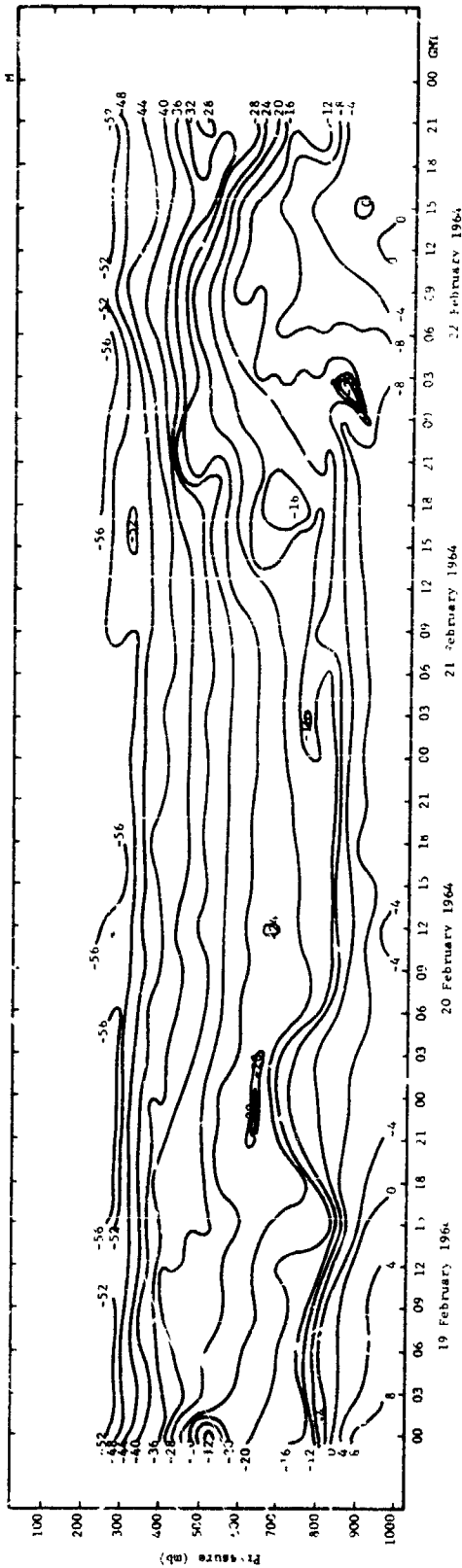
Jacksonville, Florida



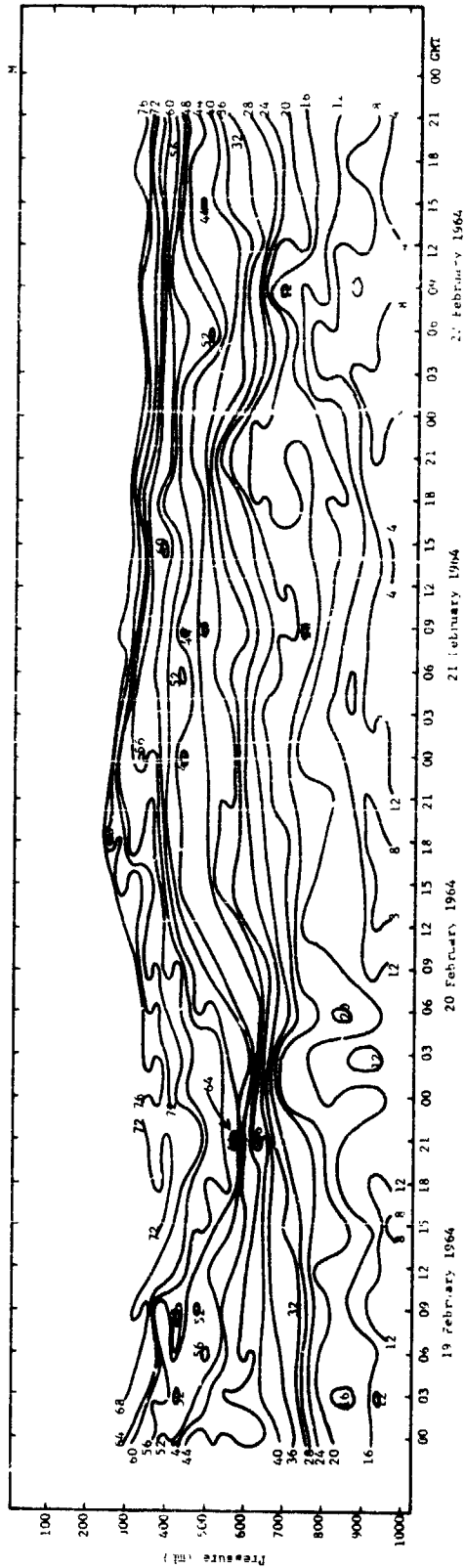
Potential Temperature (K) for Jacksonville, Florida, Station Number 33018



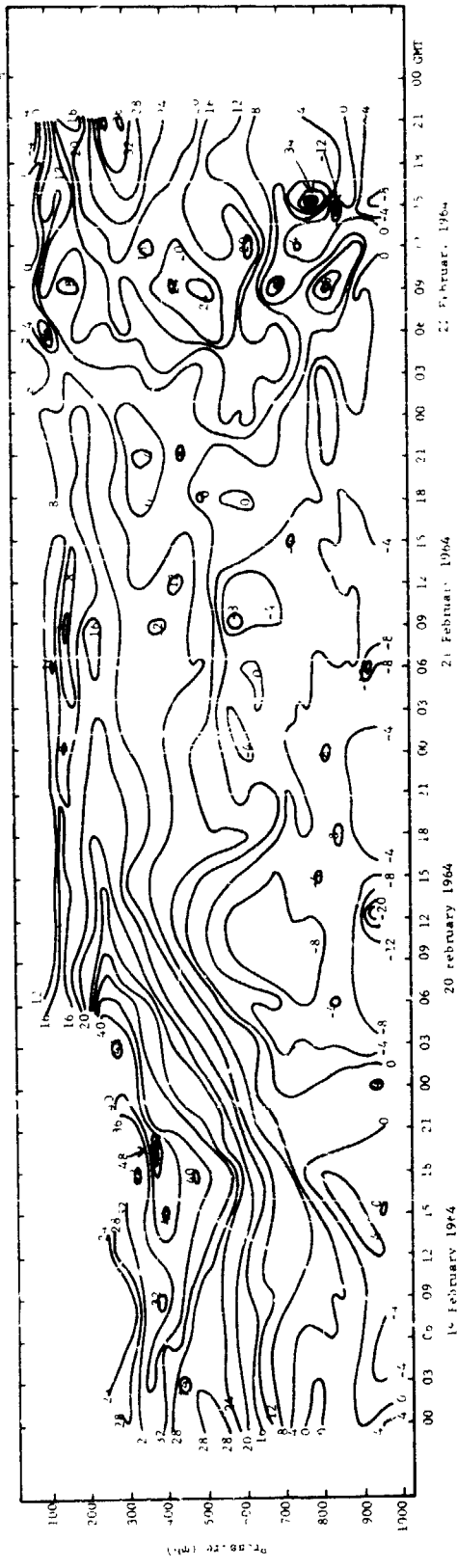
Temperature (C) for Jacksonville, Florida, Station Number 33018



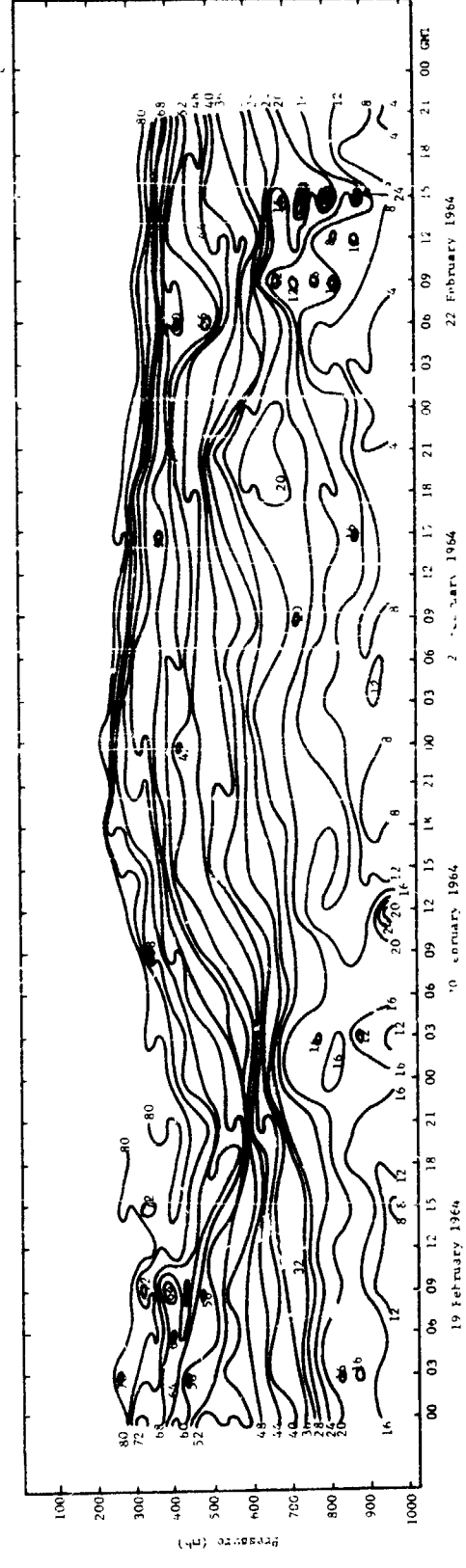
Dewpoint Temperature ($^{\circ}\text{C}$) for Jacksonville, Florida, Station Number 33018



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

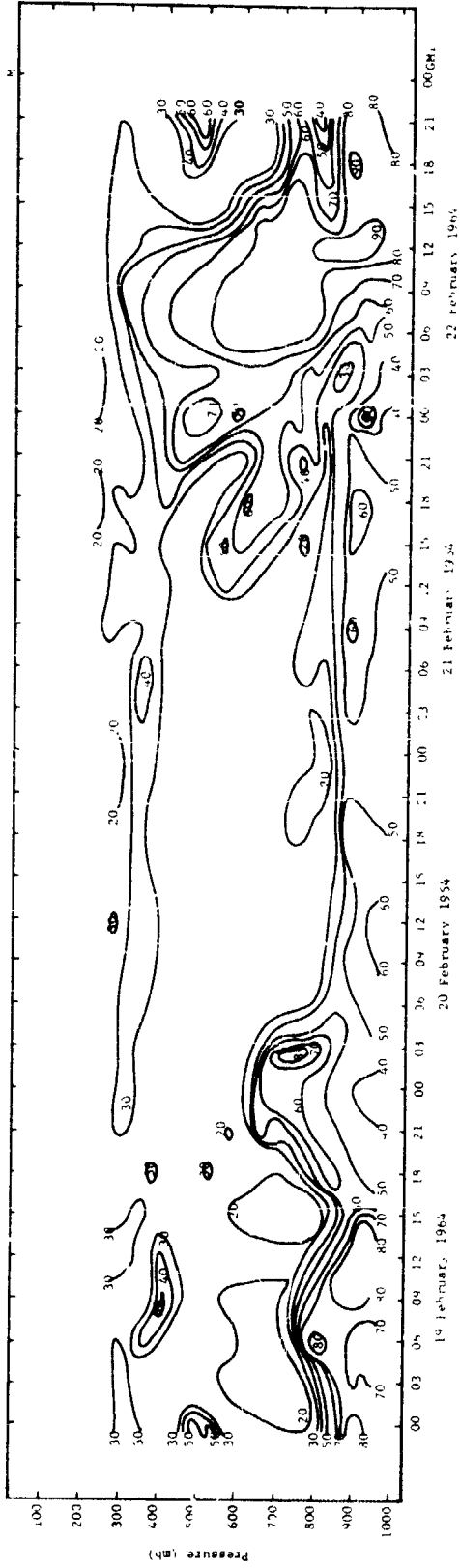


Meridional Wind Component (m/sec) for Jacksonville, Florida, Station Number 33018

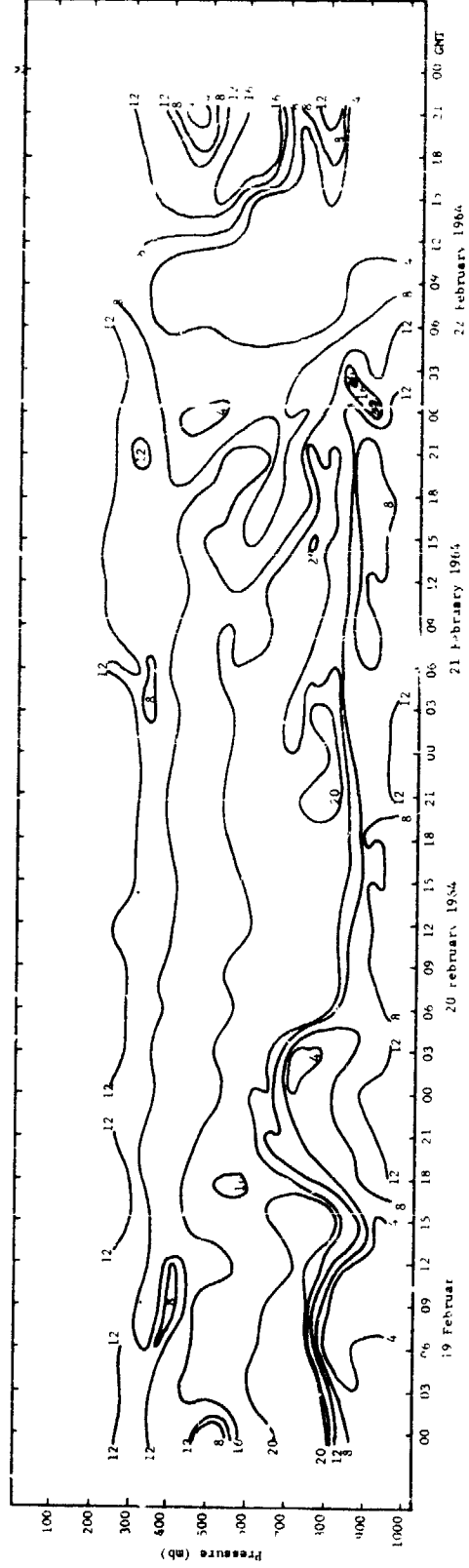


Wind Speed (m/sec) for Jacksonville, Florida, Station Number 33018

NOTE: Interval not constant

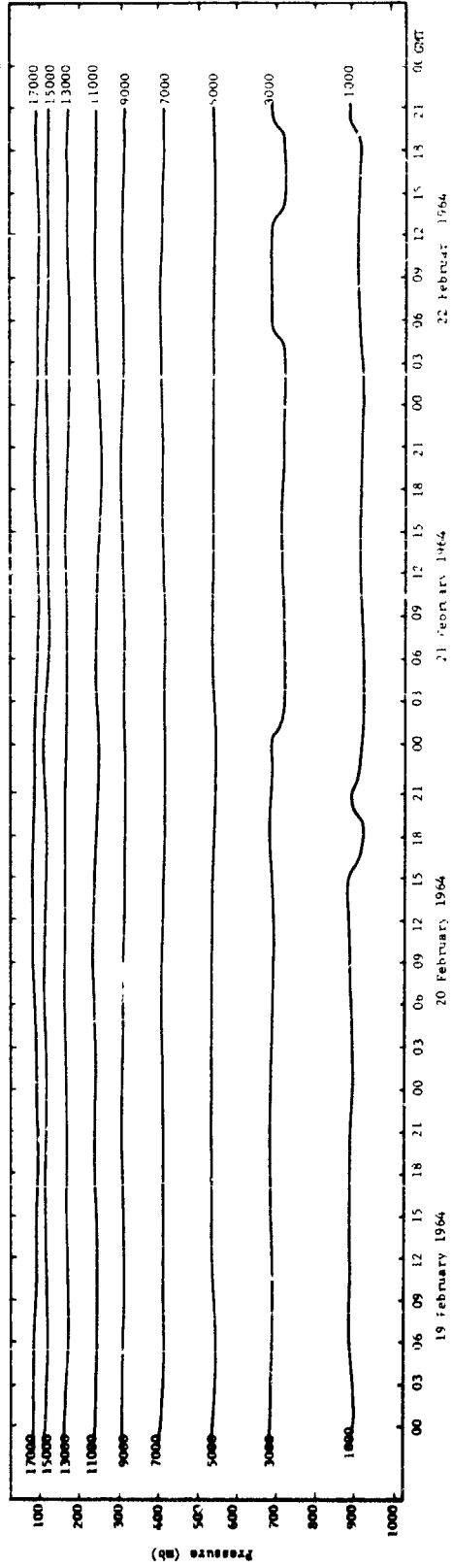


Relative Humidity (%) for Jacksonville, Florida, Station Number 33018



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

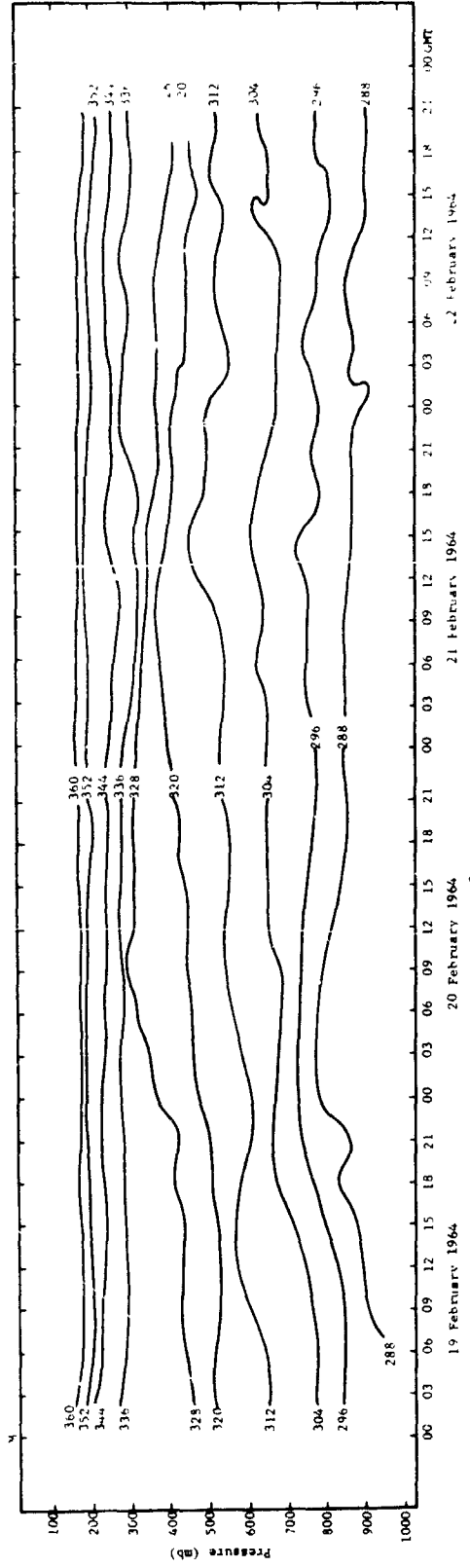
UNCLASSIFIED//FOR OFFICIAL USE ONLY



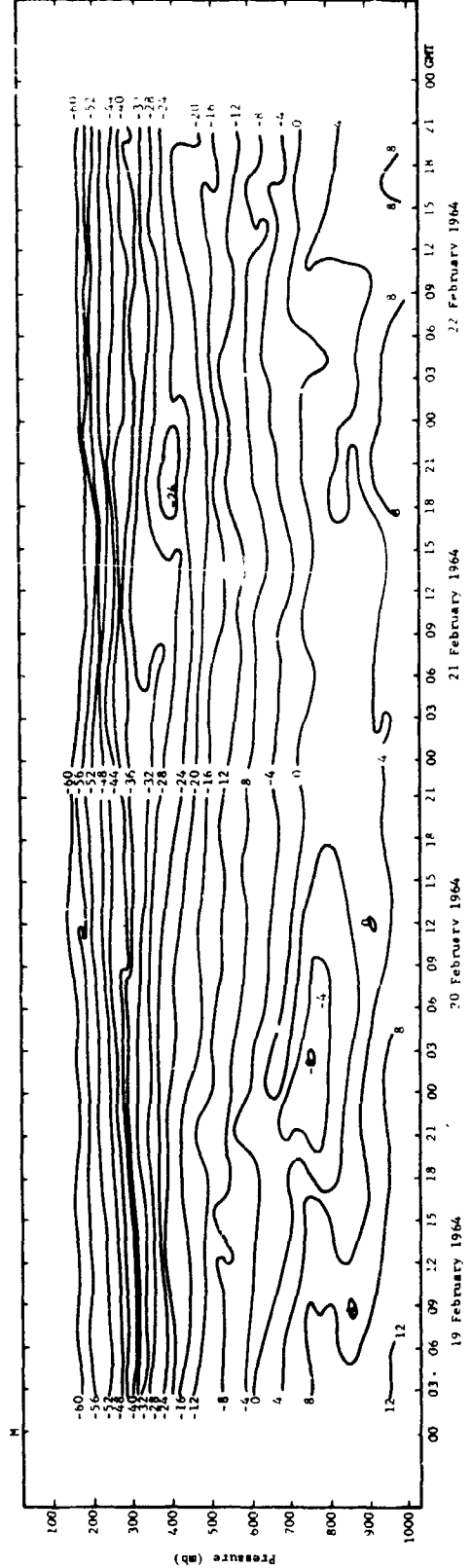
Height (gpm) for Jacksonville, Florida, Station Number 33018

Station Number 33019

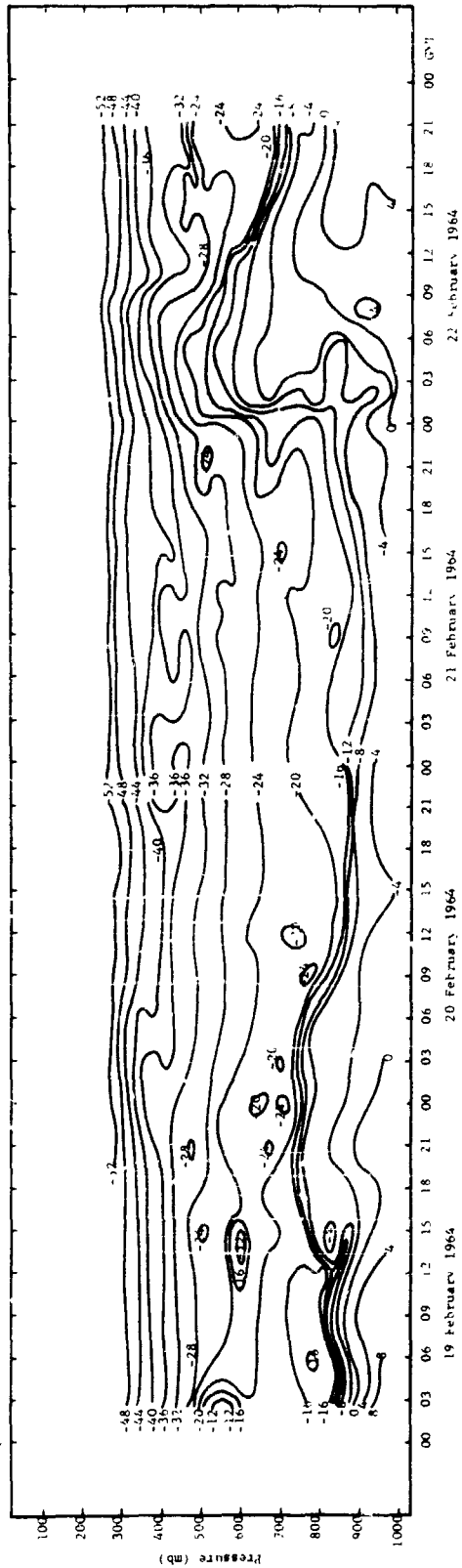
Tampa, Florida



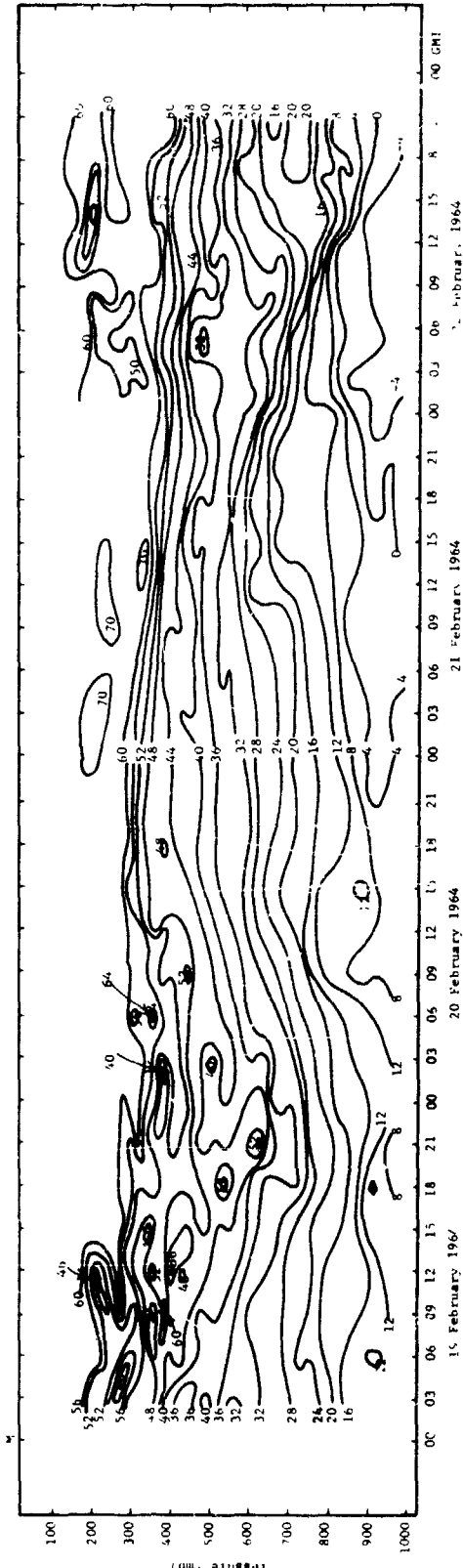
Potential Temperature ($^{\circ}\text{K}$) for Tampa, Florida, Station Number 33019



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

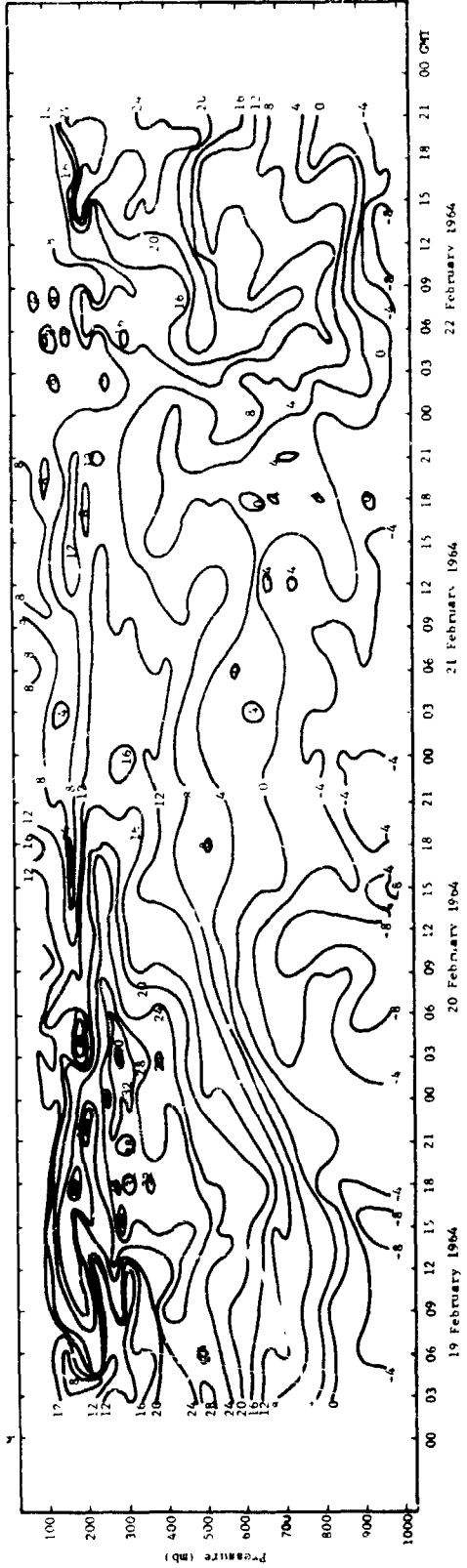


Dewpoint Temperature (°C) for Tampa, Florida, Station Number 33019

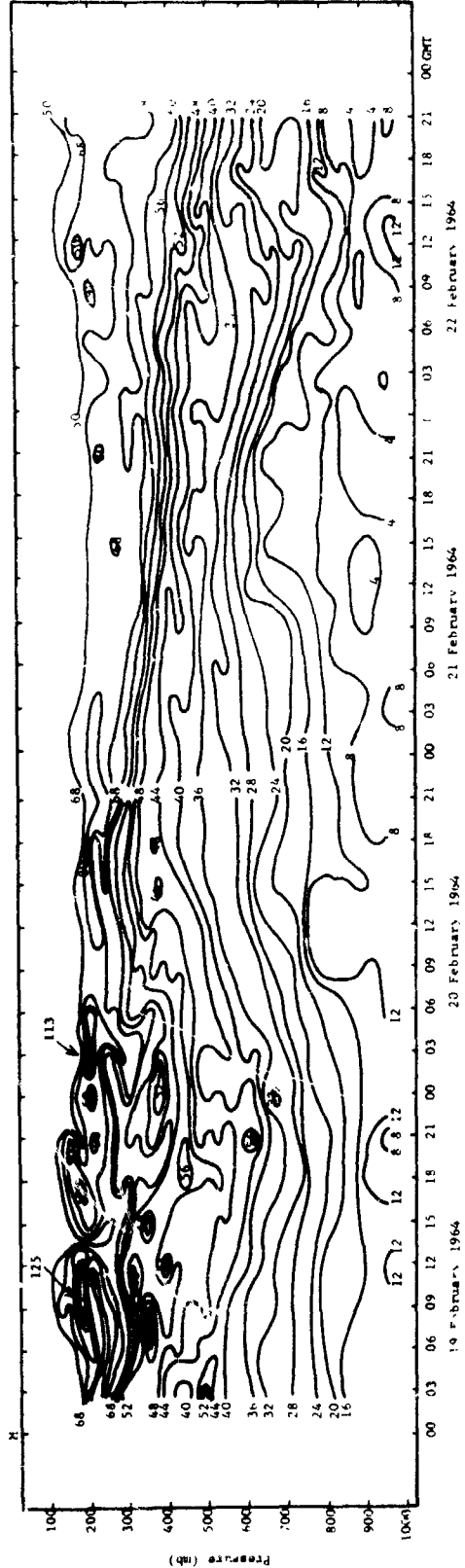


Zonal Wind Component (m/sec) for Tampa, Florida, Station Number 33019

NOTE: Interval not constant

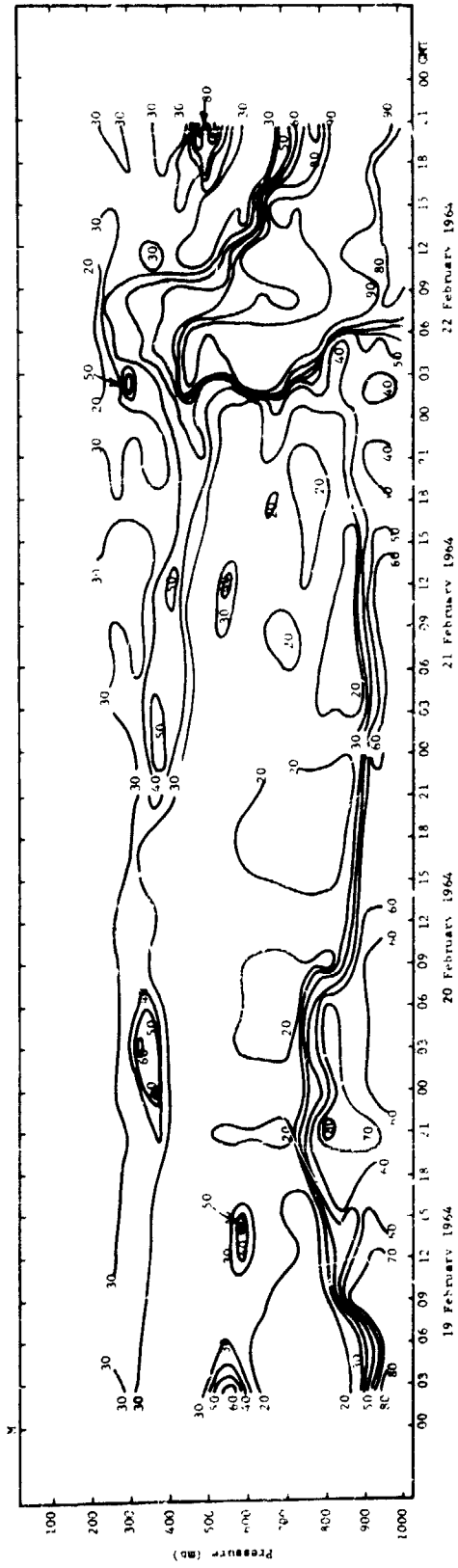


Meridional Wind Component (m/sec) for Tampa, Florida, Station Number 33019

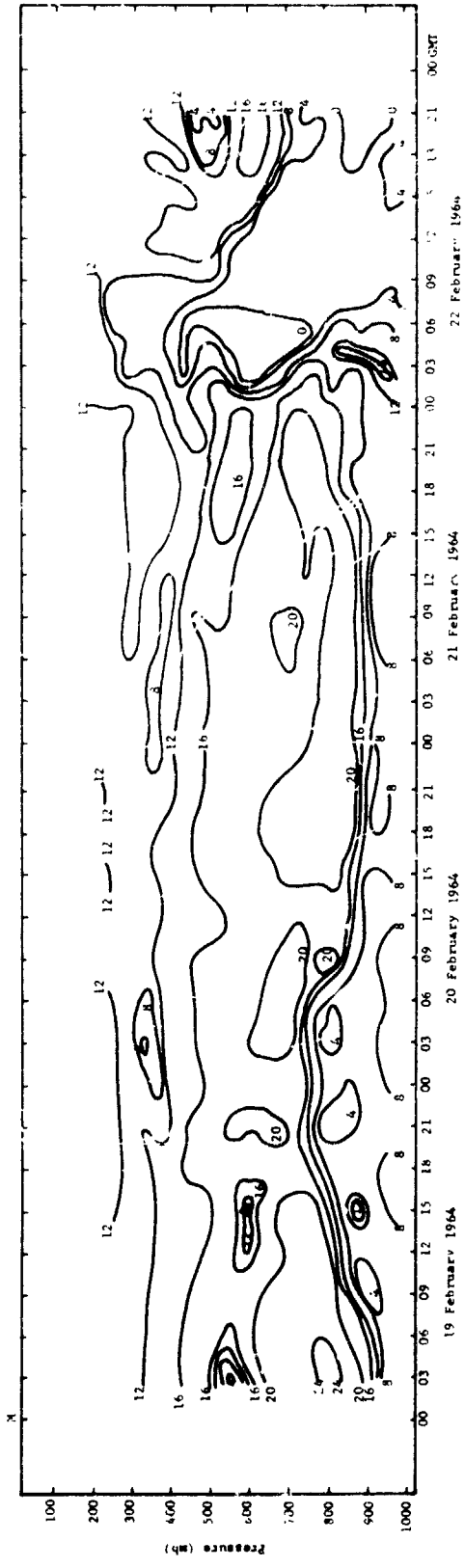


Wind Speed (m/sec) for Tampa, Florida, Station Number 33019

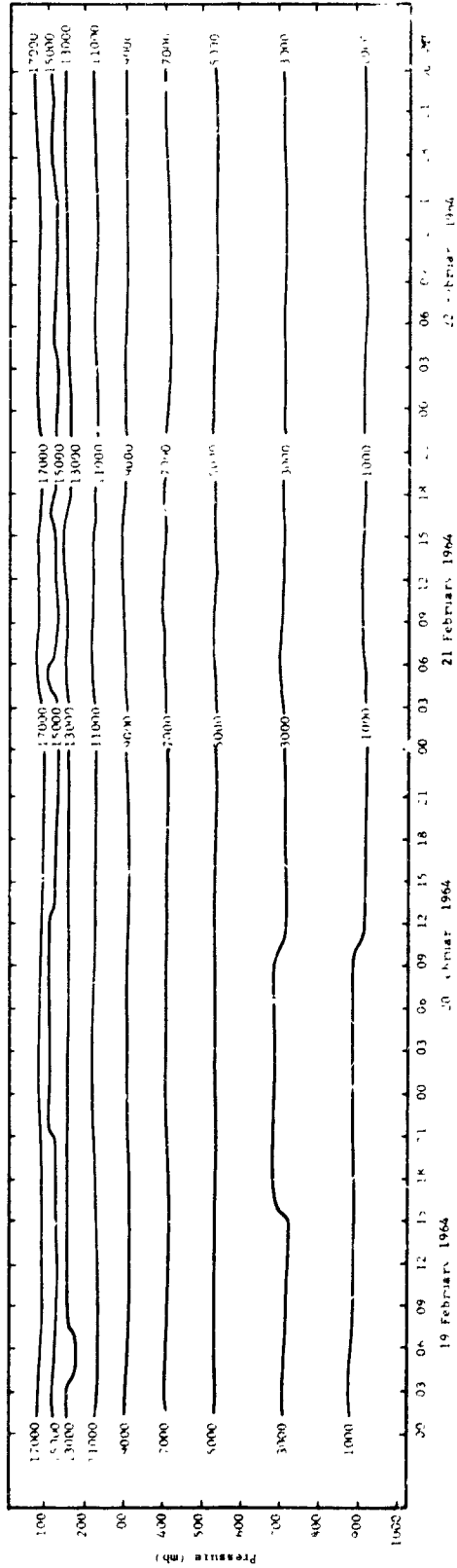
NOTE: Interval not constant



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



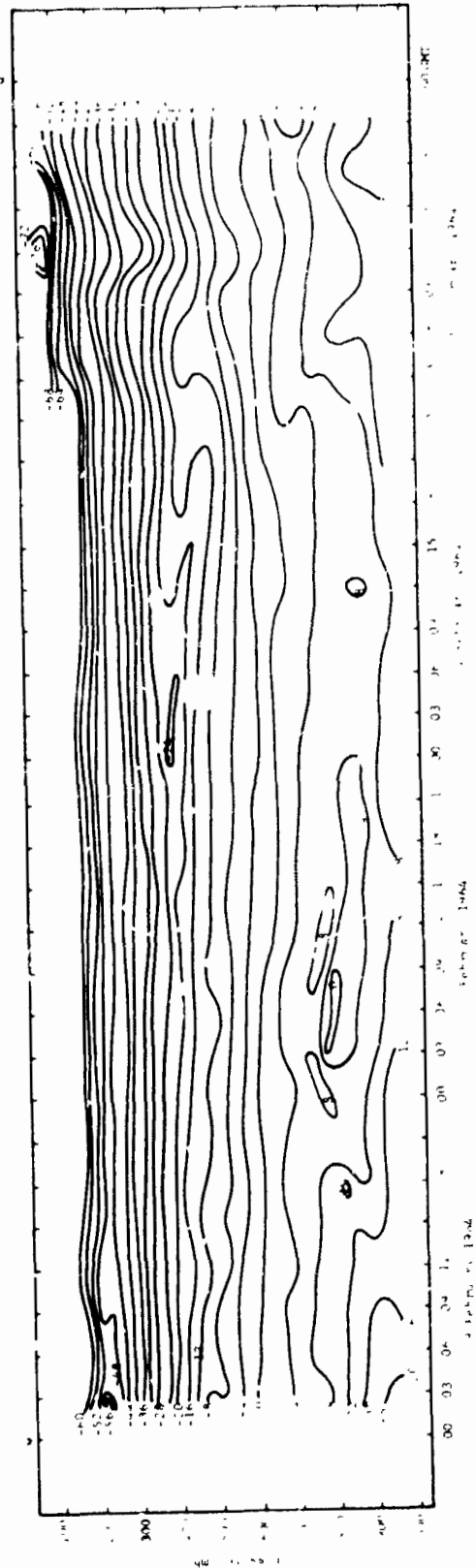
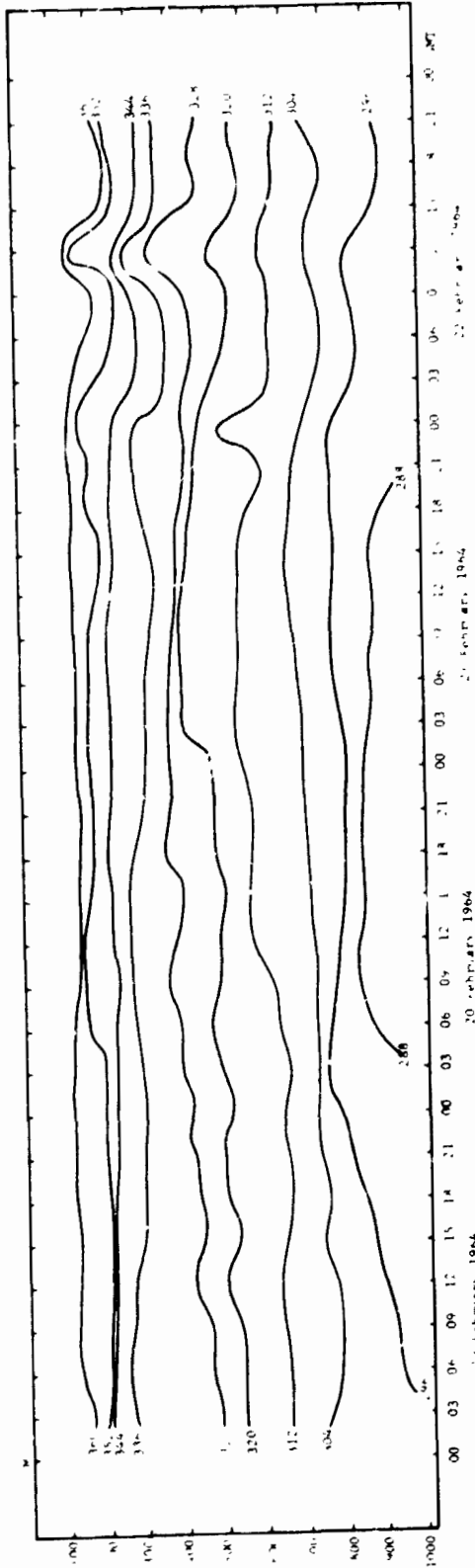
Dewpoint Depression (°C) for Tampa, Florida, Station Number 33019

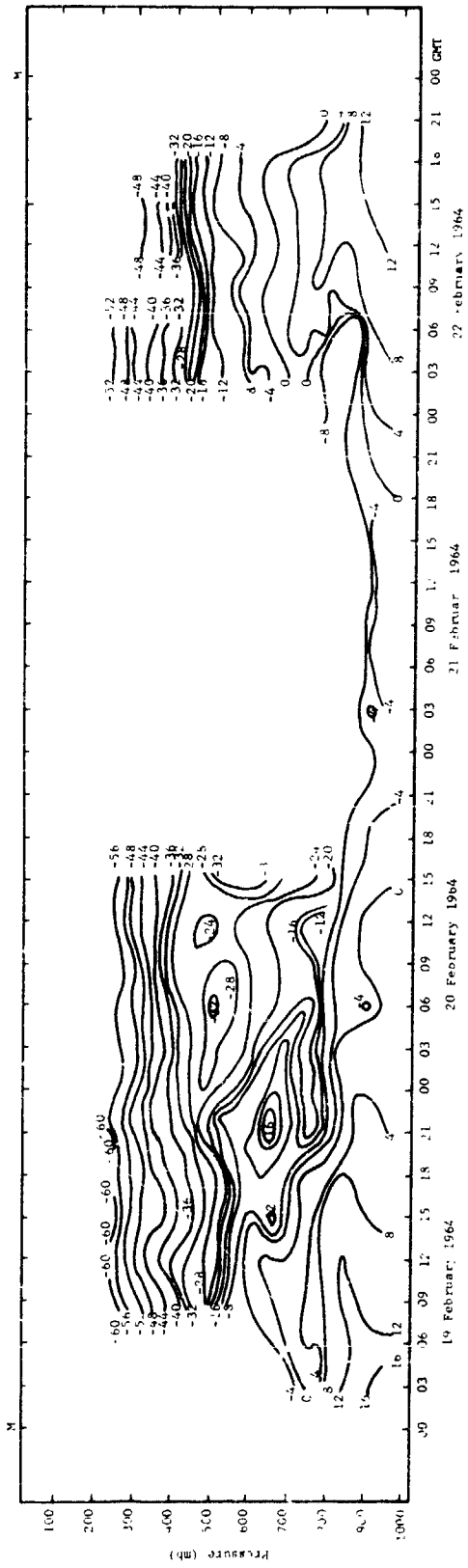


Height (gpm) to Tampa, Florida, Station Number 33019

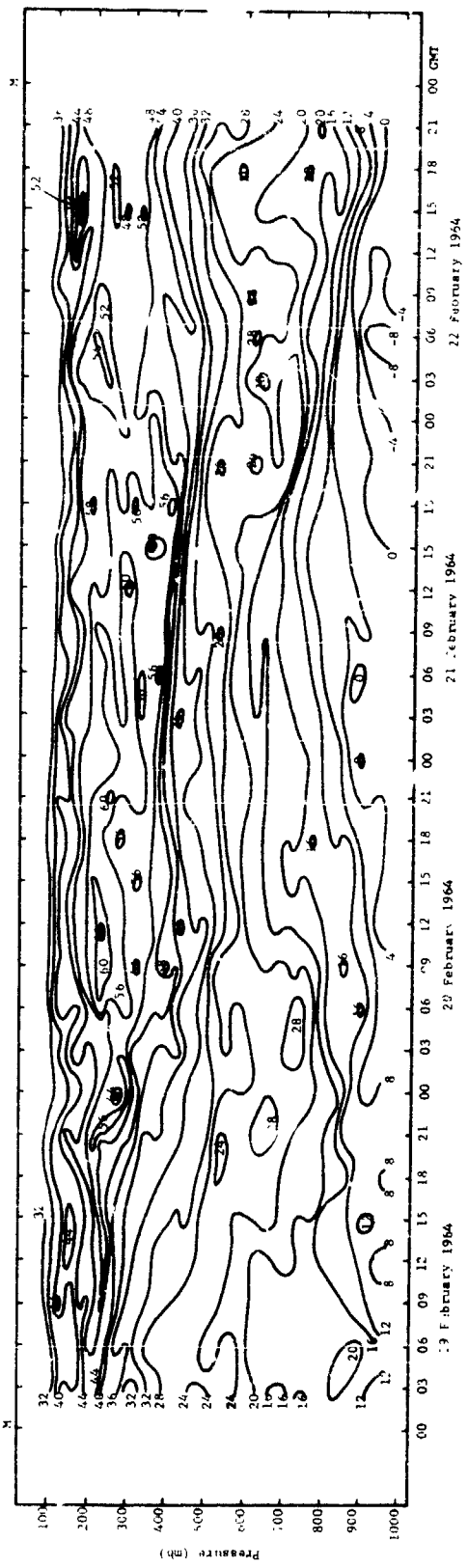
Station Number 33020

Miami, Florida

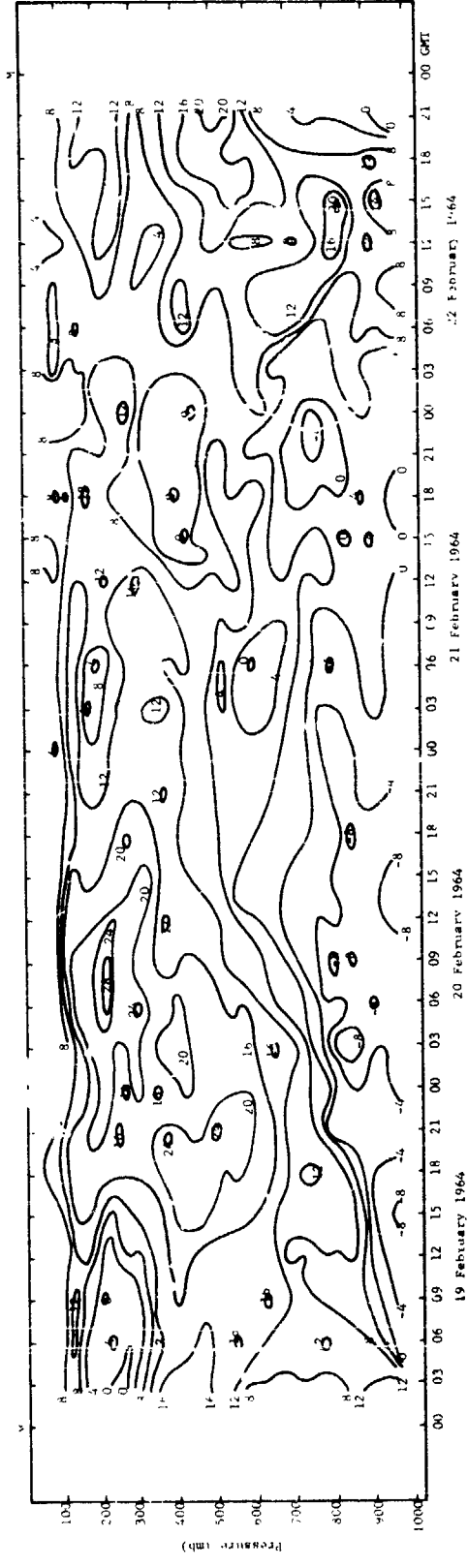




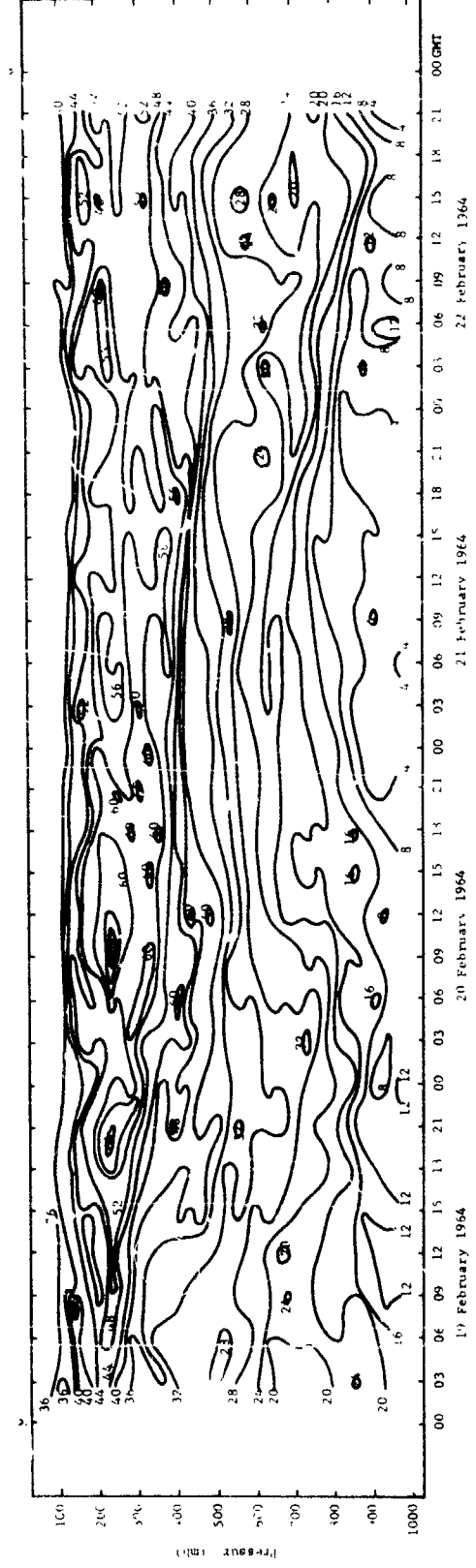
Dewpoint Temperature (°C) for Miami, Florida, Station Number 33020



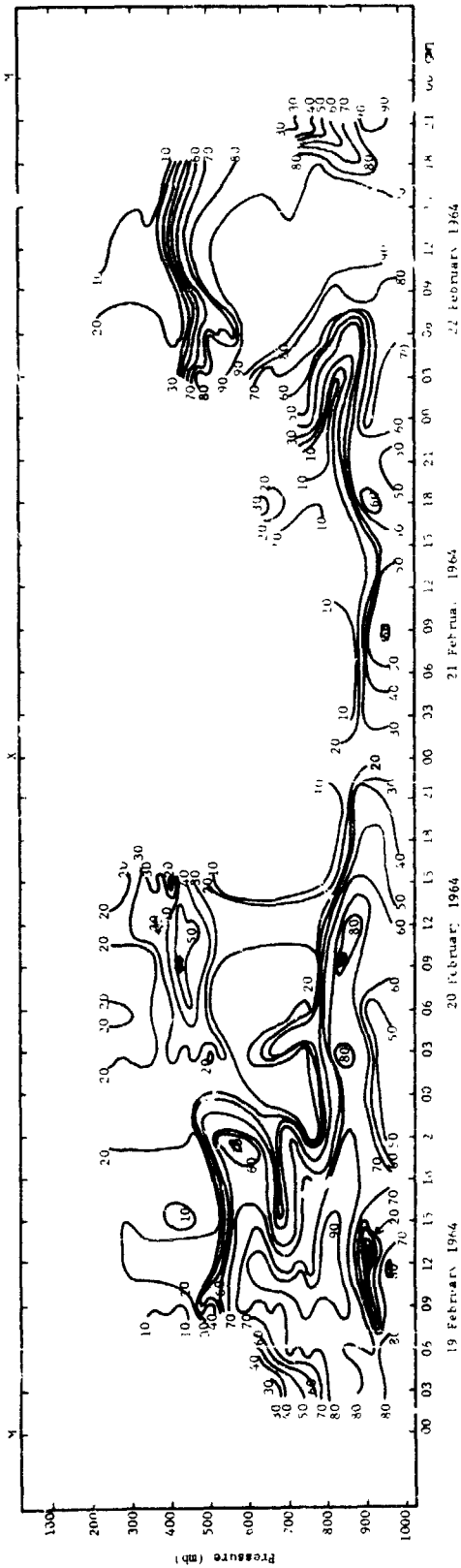
Zonal Wind Component (m/sec) for Miami, Florida, Station Number 33020



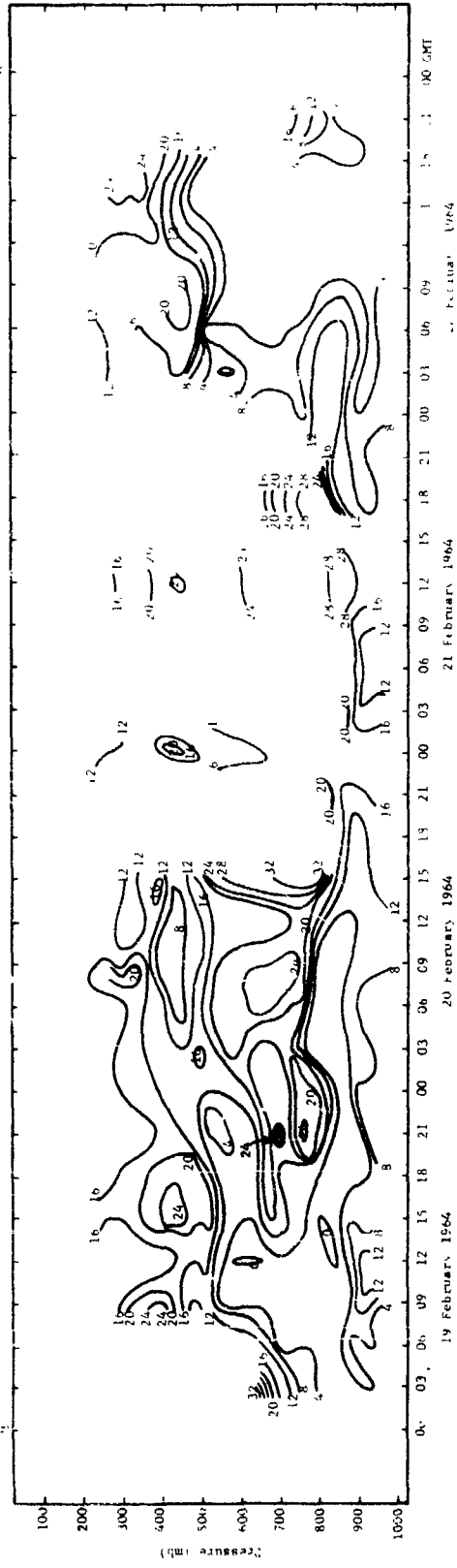
Meridional Wind Component (m/sec) for Miami, Florida, Station Number 33020



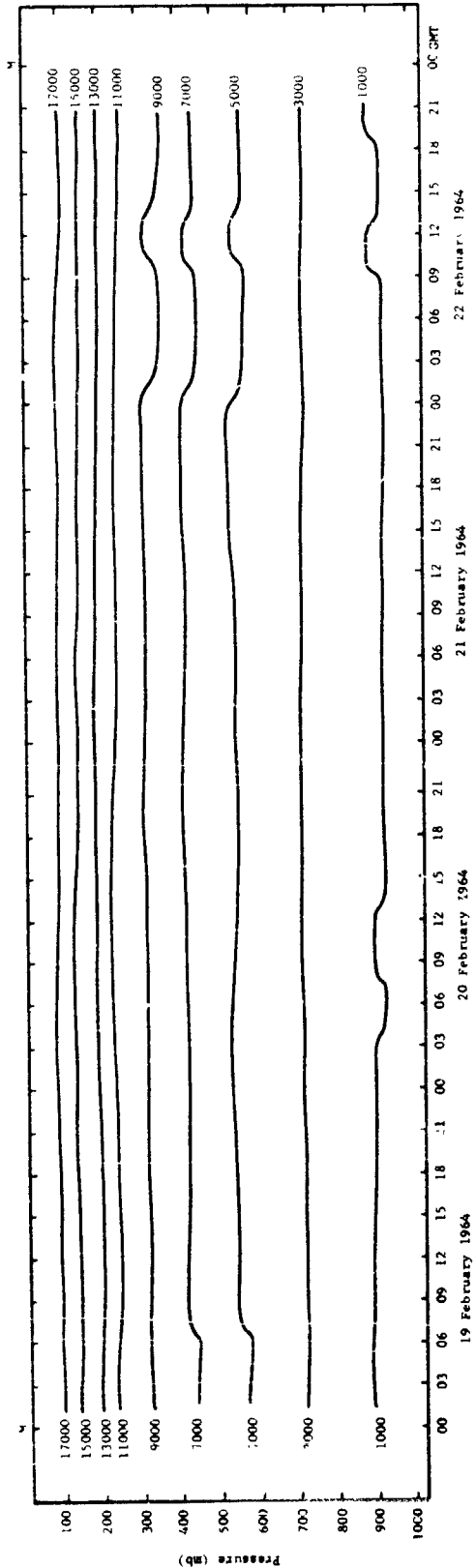
Wind Speed (m/sec) for Miami, Florida, Station Number 33020



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



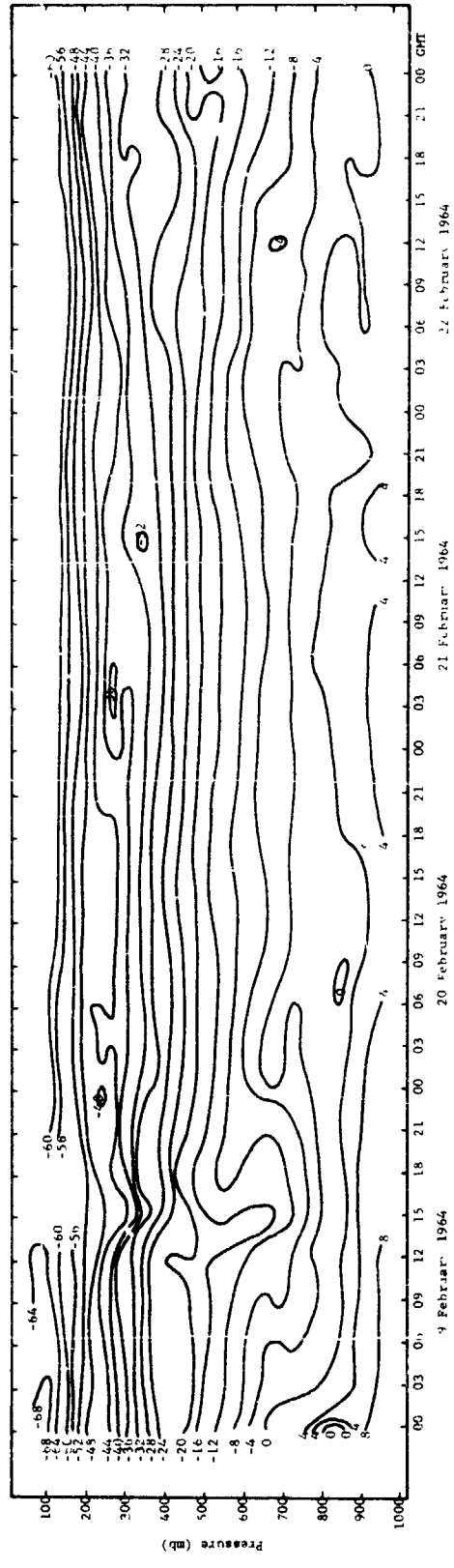
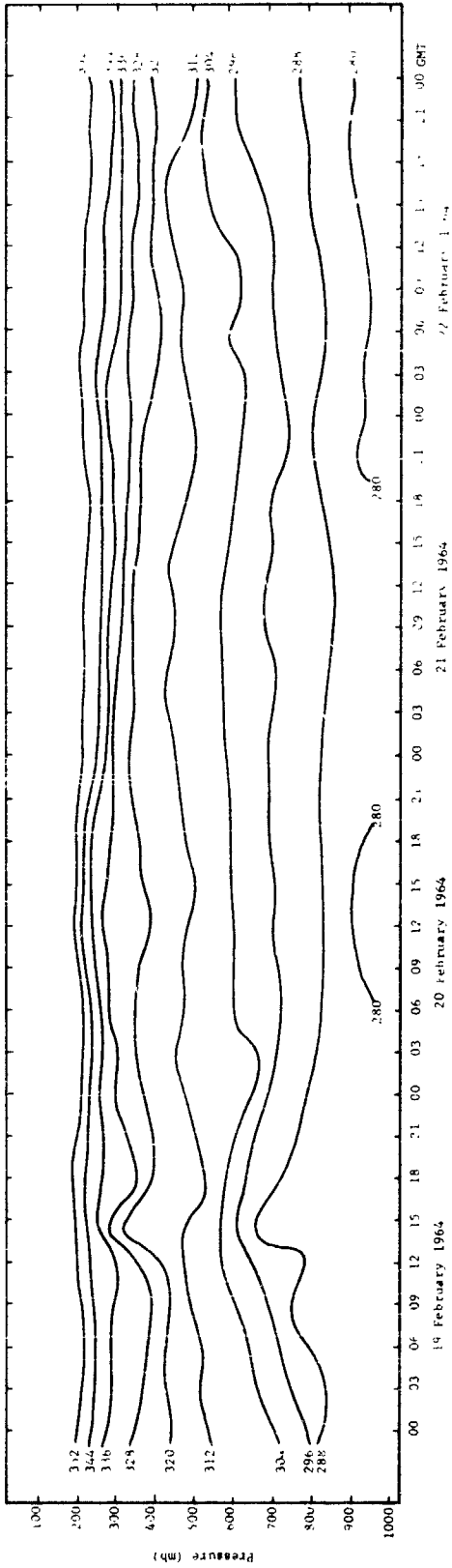
Dewpoint Depression (°C) for Miami, Florida, Station Number 33020

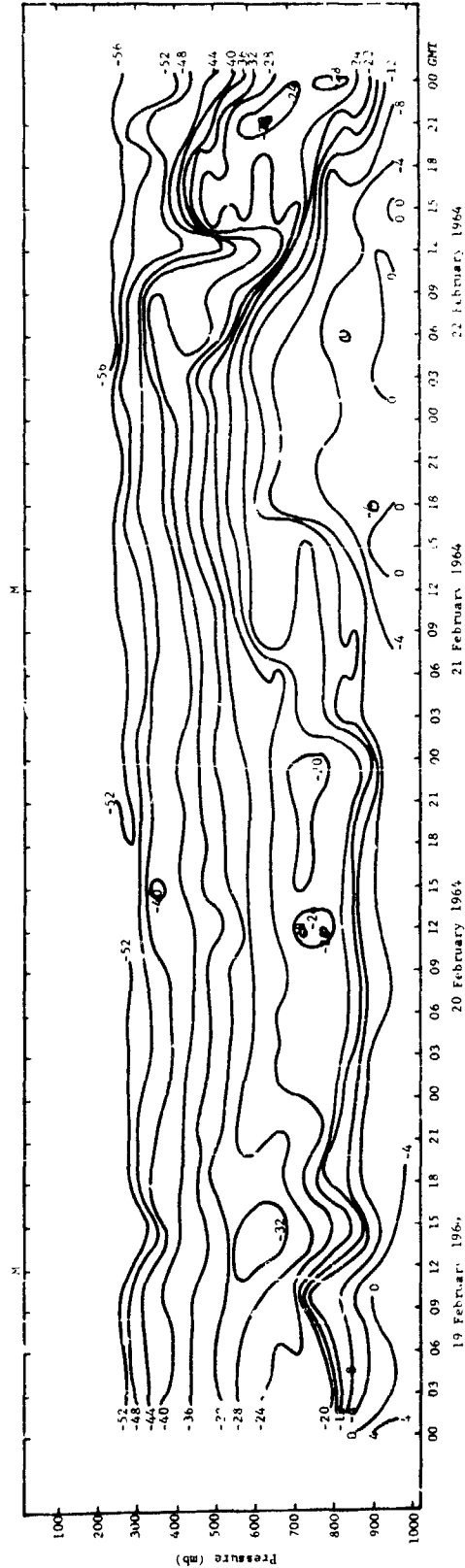


Height (gpm) for Miami, Florida, Station Number 33020

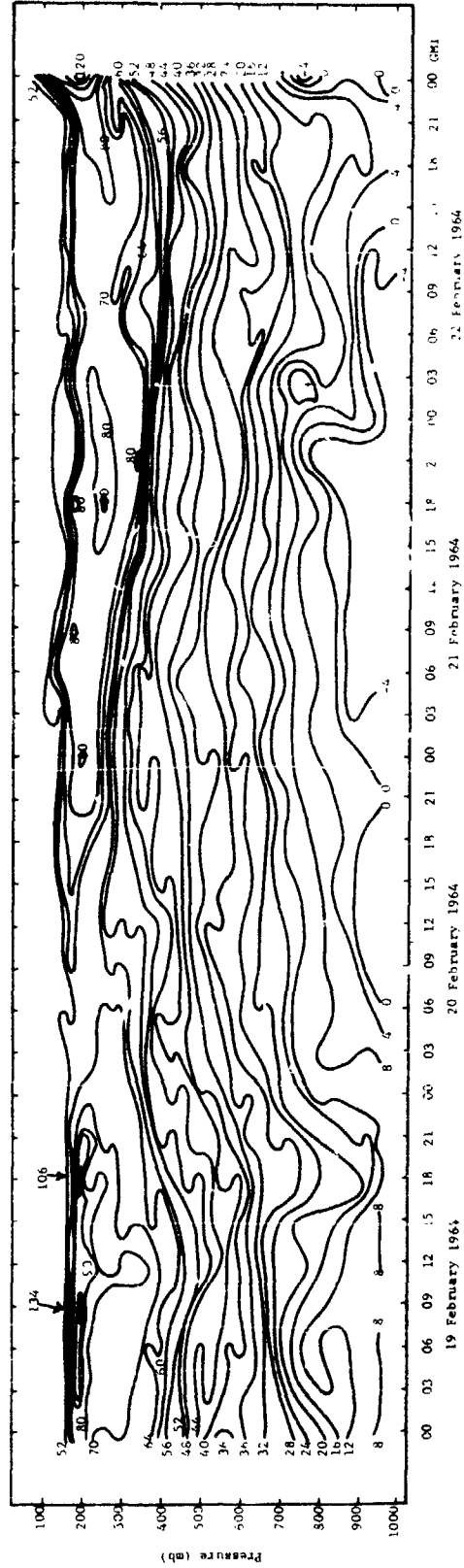
Station Number 33021

Burrwood, Louisiana



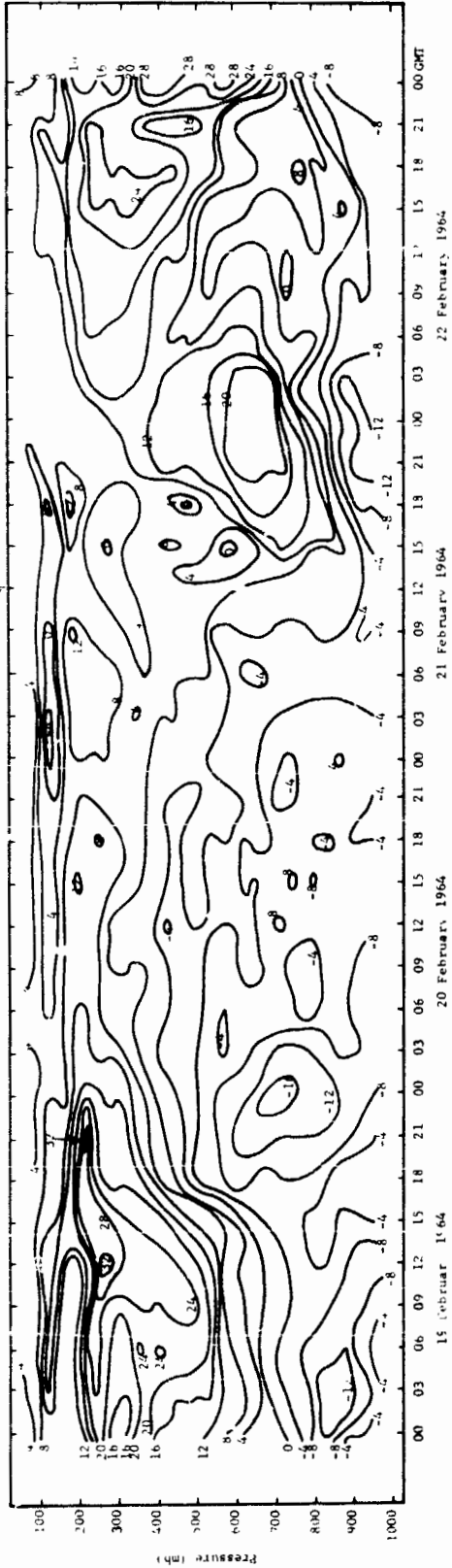


Dewpoint Temperature (°C) for Burwood, Louisiana, Station Number 33021

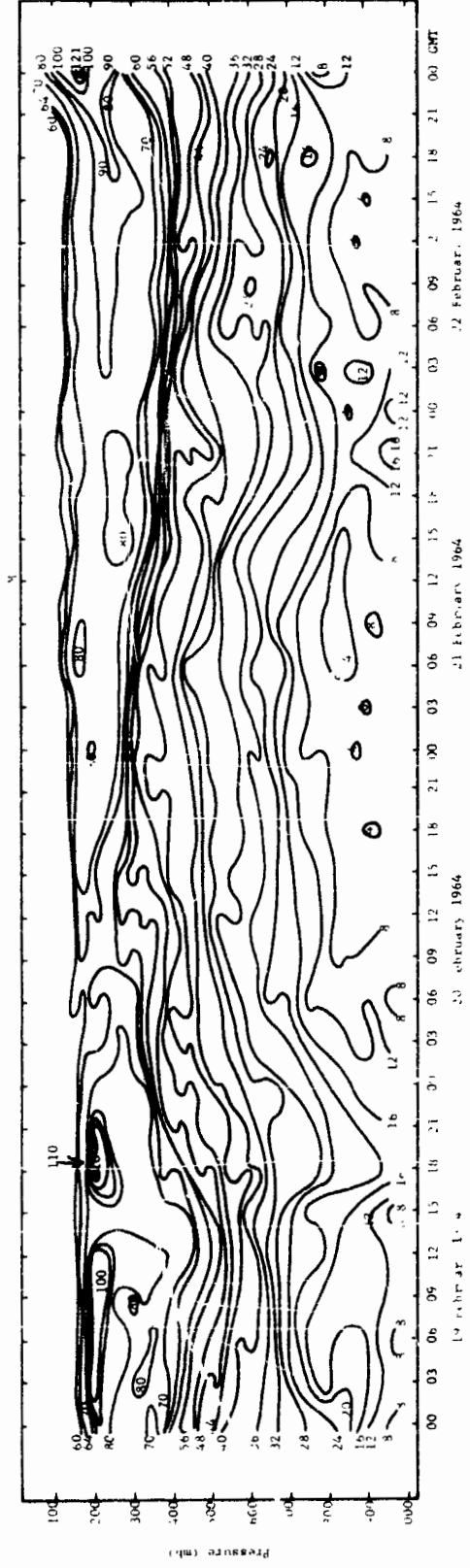


Zonal Wind Component (m/sec) for Burwood, Louisiana, Station Number 33021

NOTE: Interval not constant

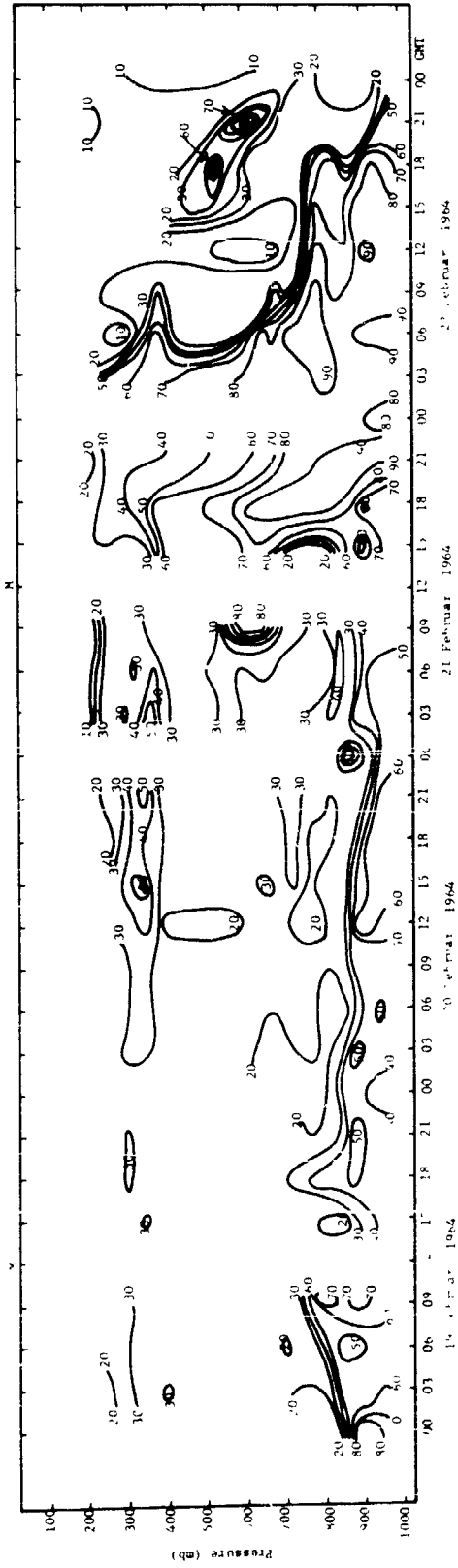


Meridional Wind Component (m/sec) for Burrwood, Louisiana, Station Number 33021

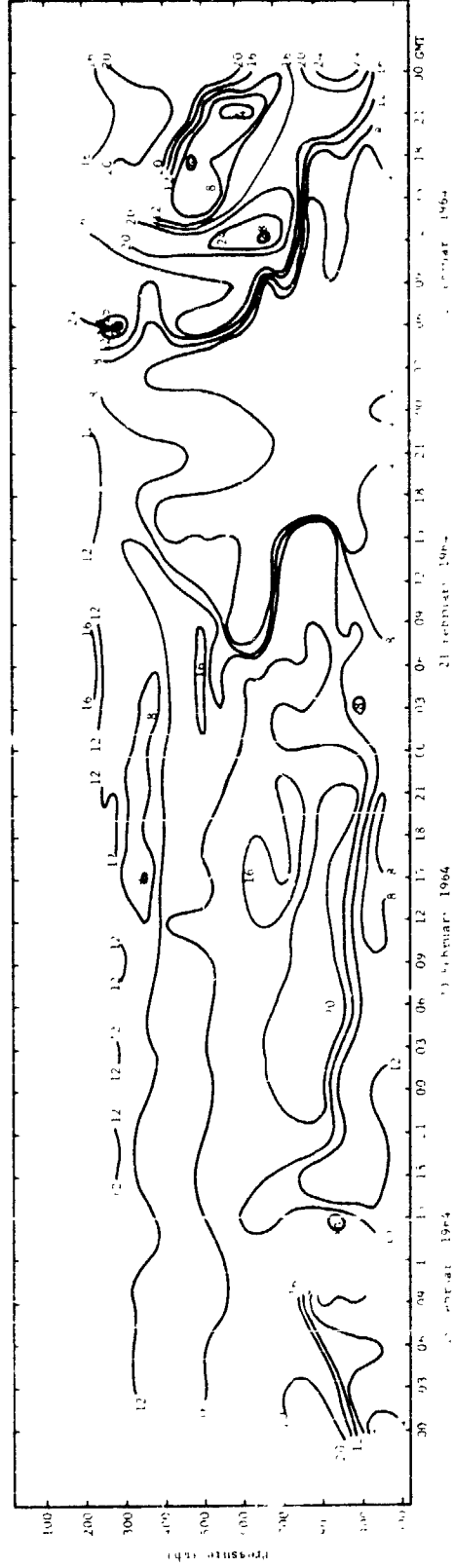


Wind Speed (m/sec) for Burrwood, Louisiana, Station Number 33021

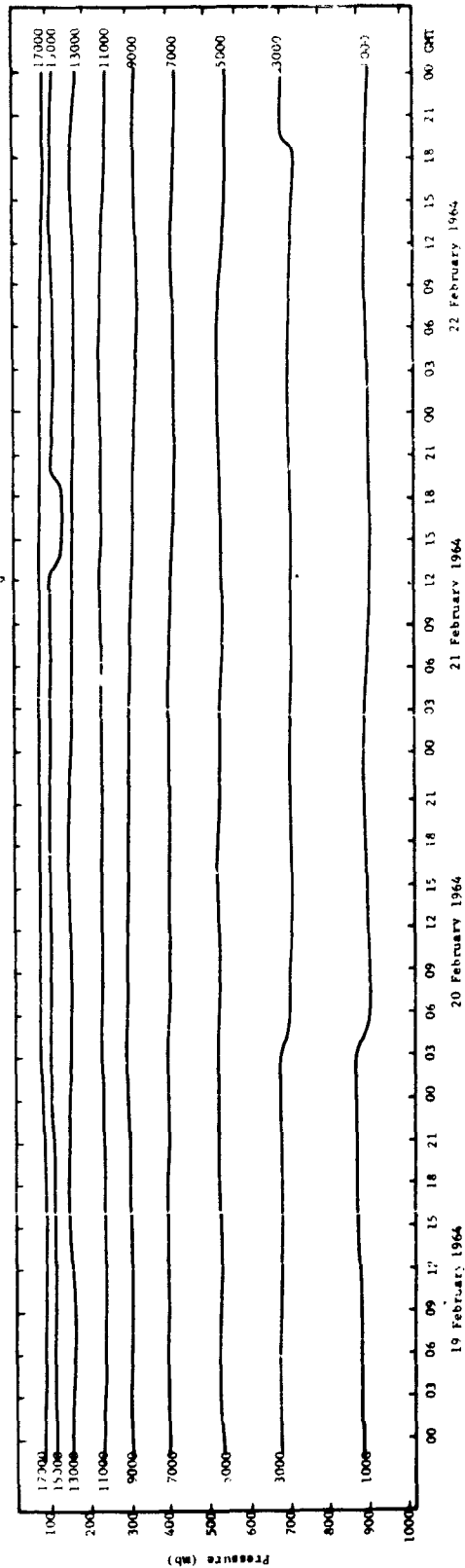
NOTE: Interval not constant



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



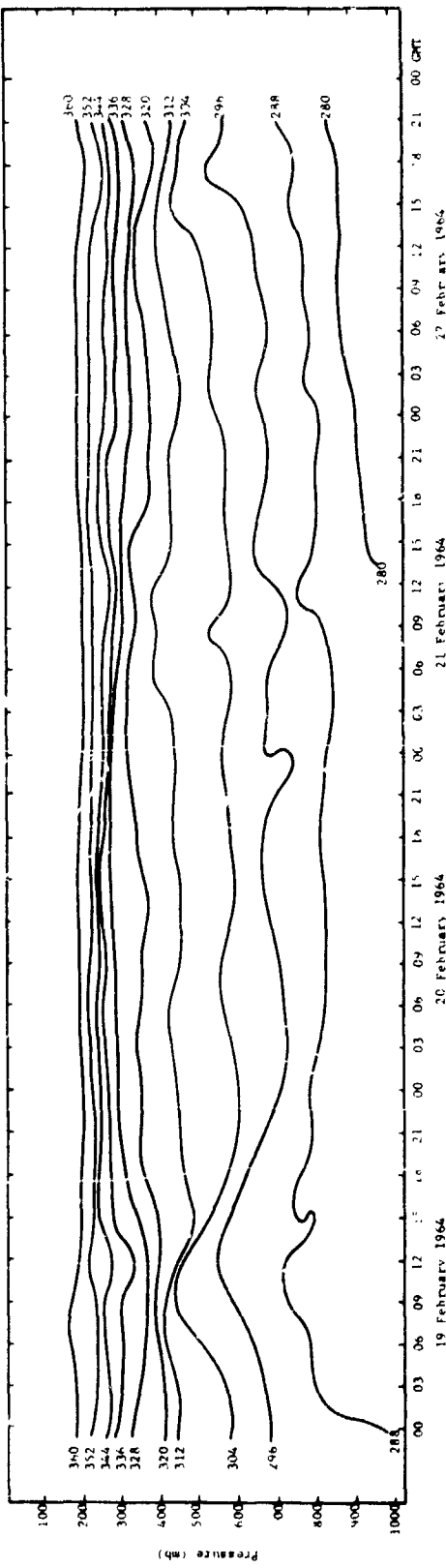
Dewpoint Depression ($^{\circ}\text{C}$) for Burrwood, Louisiana, Station Number 33021



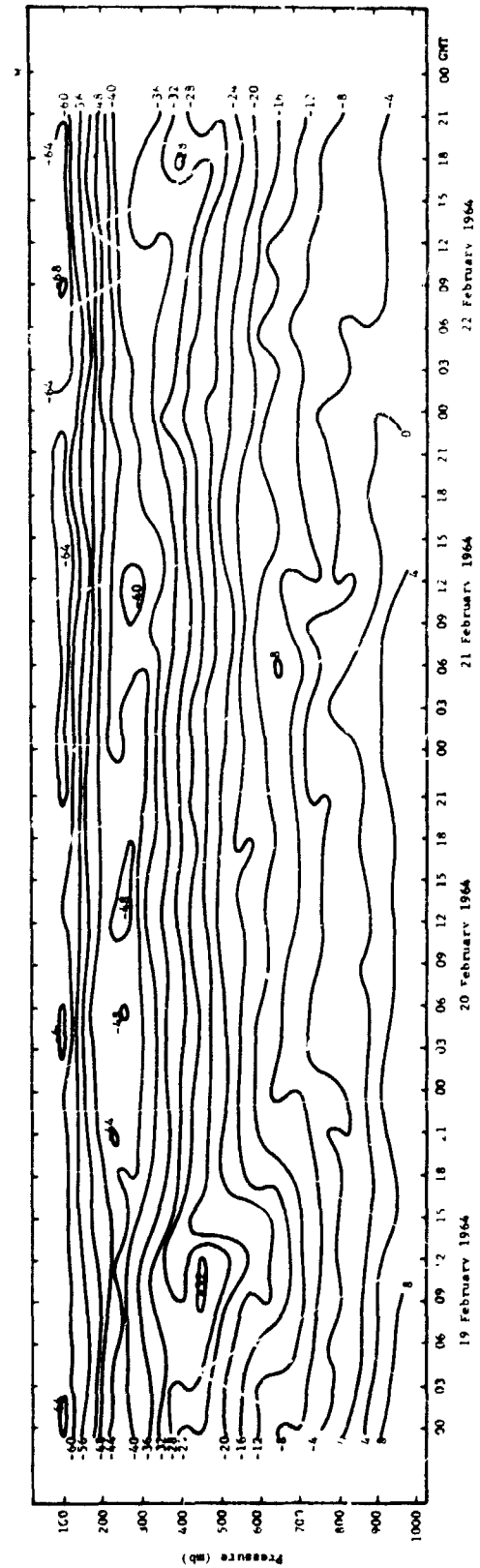
Height (gpm) for Burrwood, Louisiana, Station Number 33021

Station Number 33022

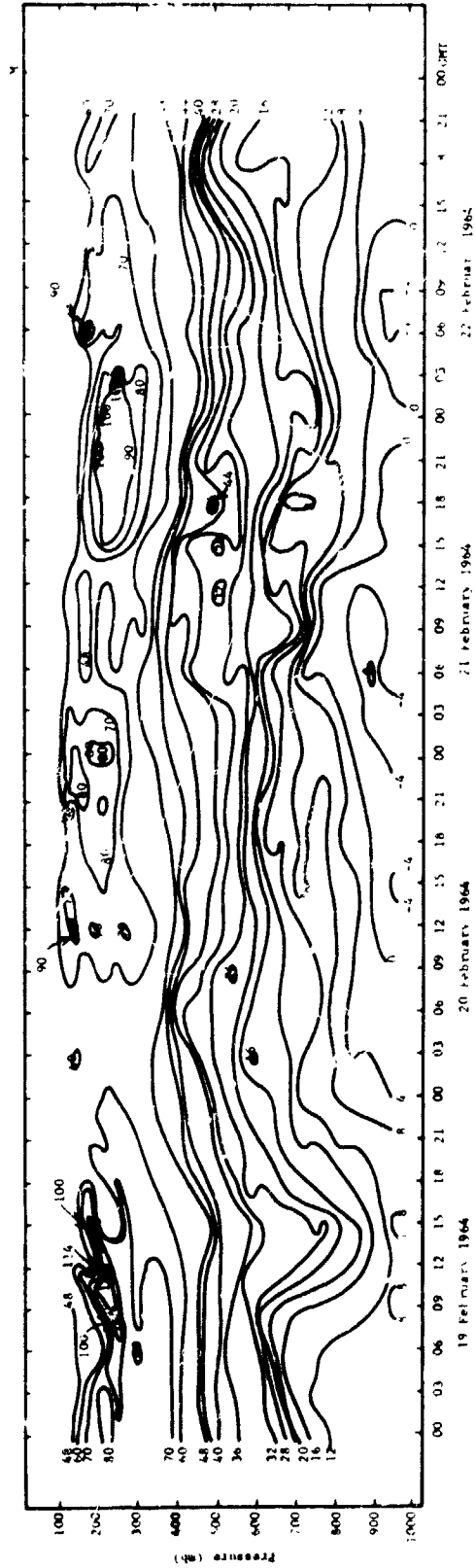
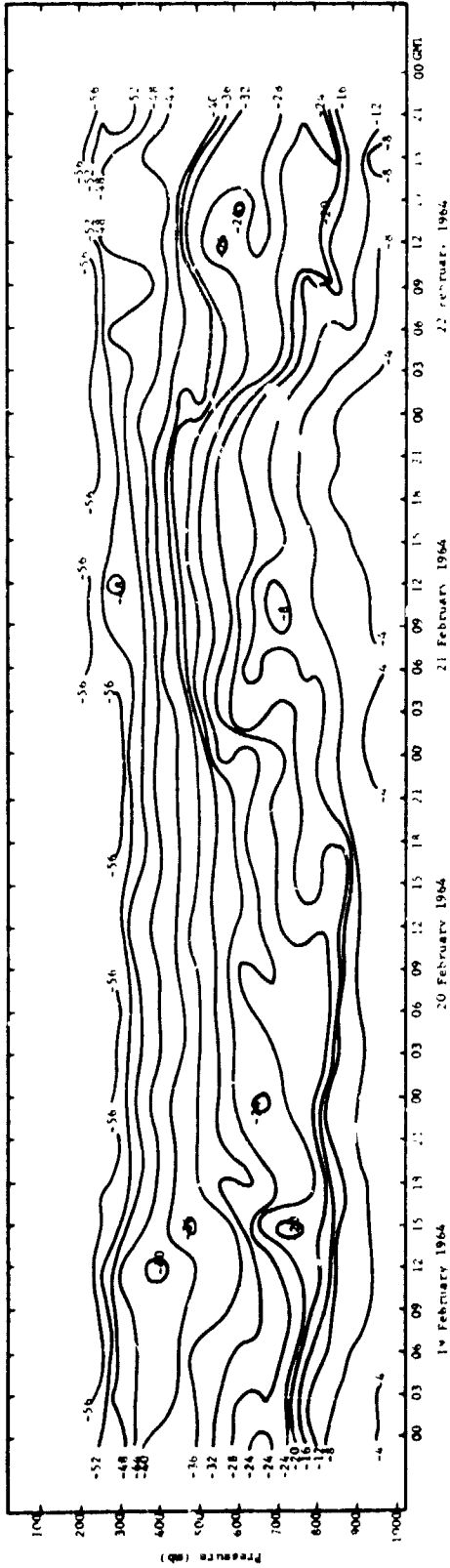
Lake Charles, Louisiana



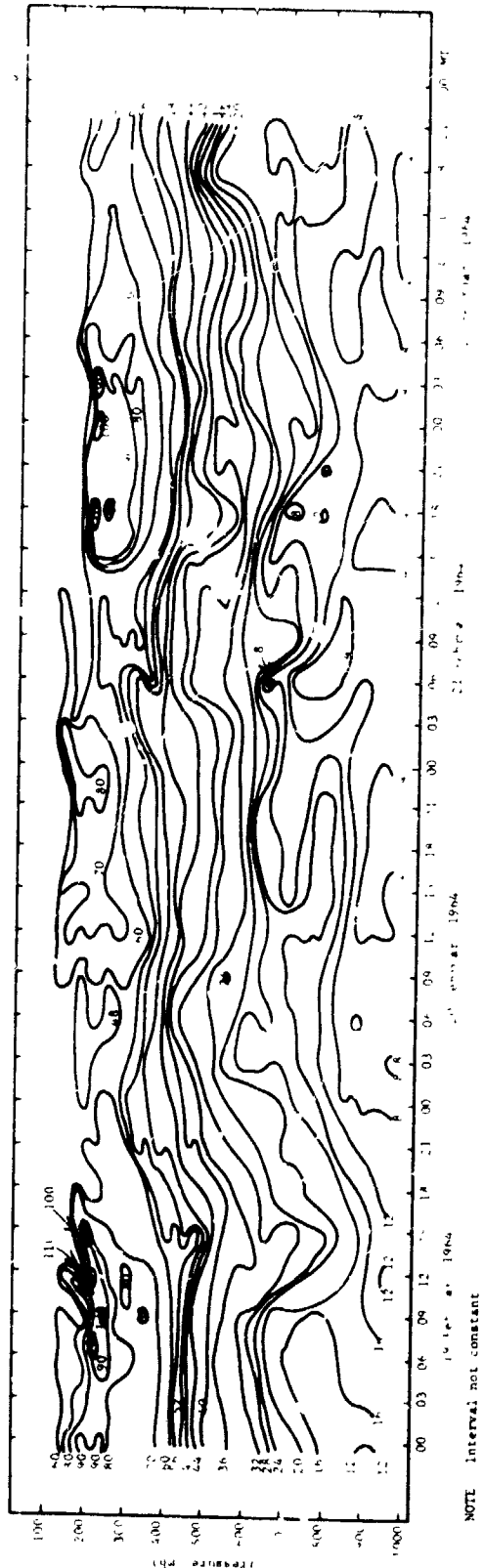
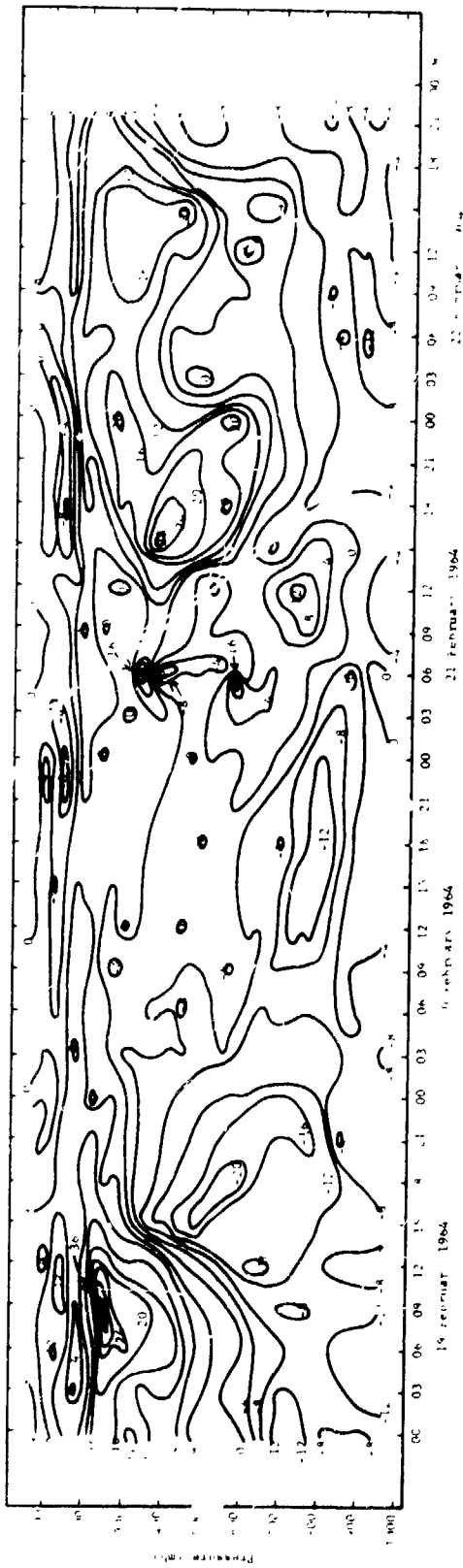
Potential Temperature (K) for Lake Charles, Louisiana, Station Number 33022



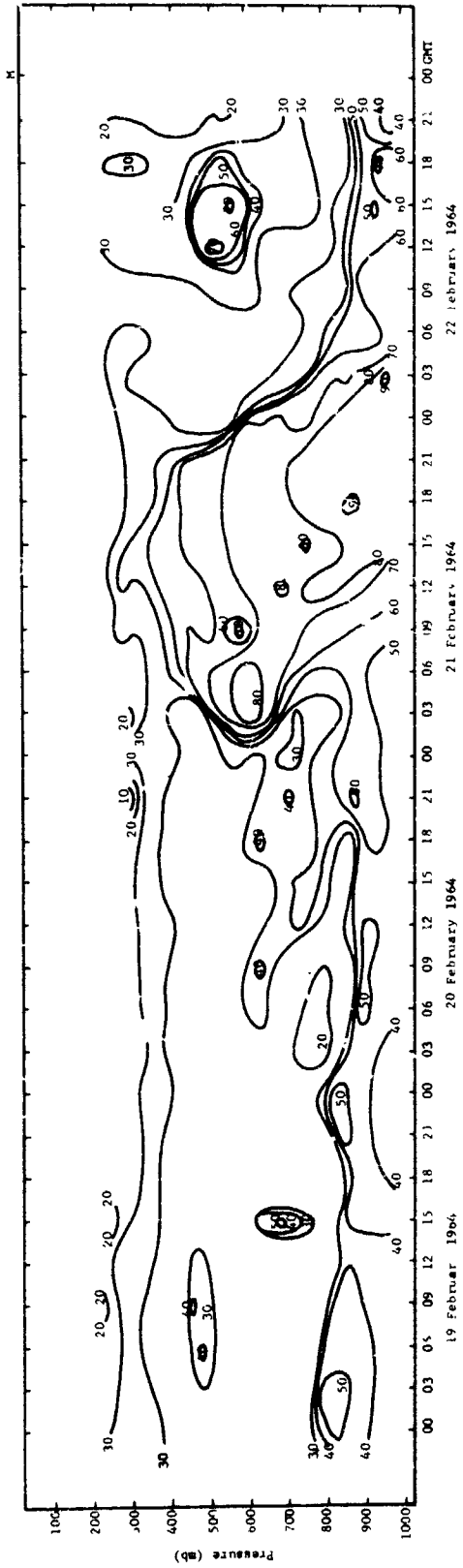
Temperature (C) for Lake Charles, Louisiana, Station Number 33022



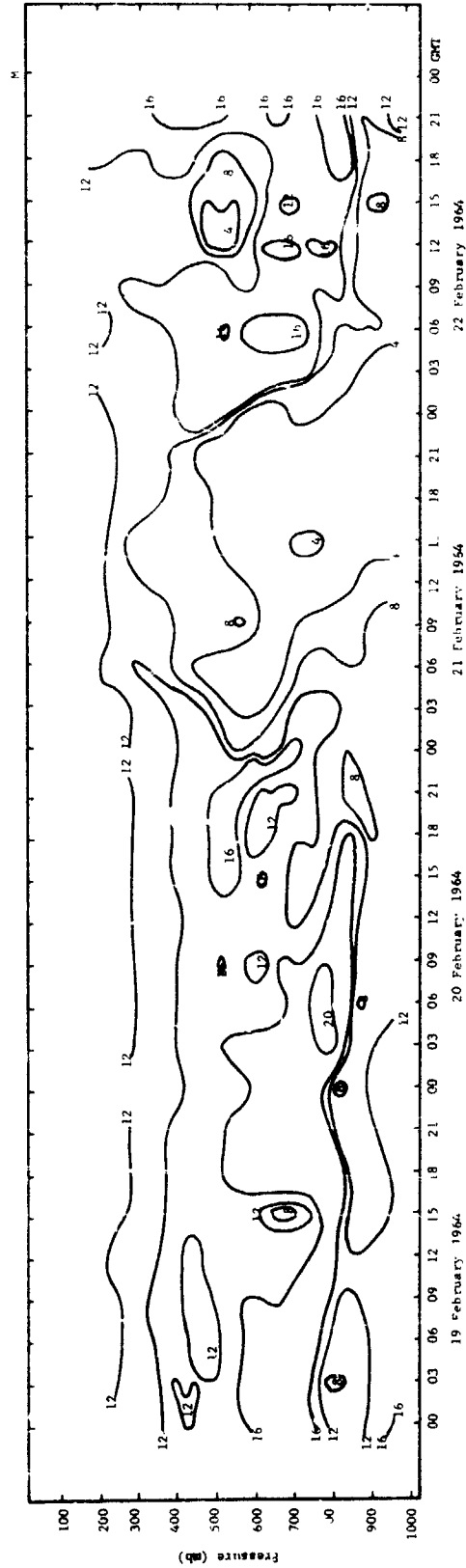
NOTE: Interval not constant



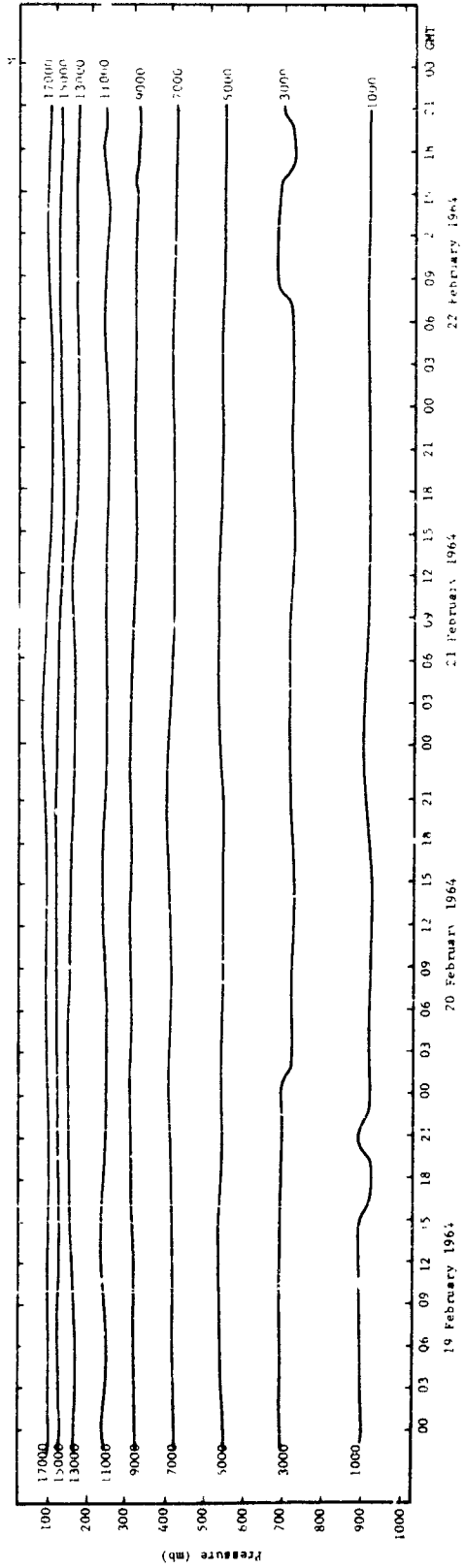
NOTE: Interval not constant



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



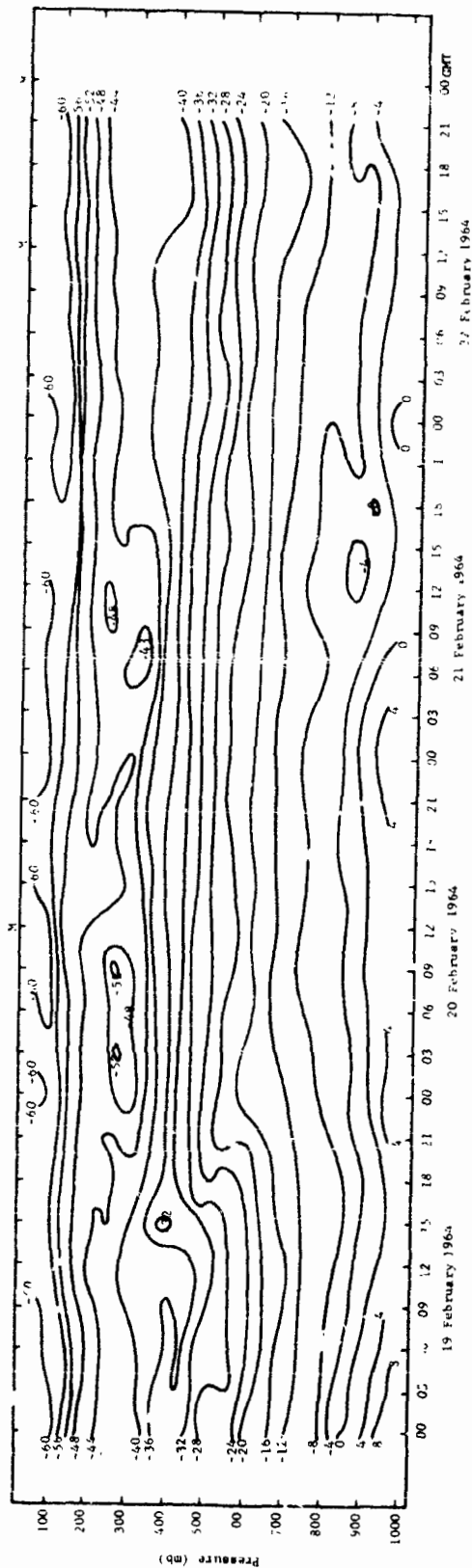
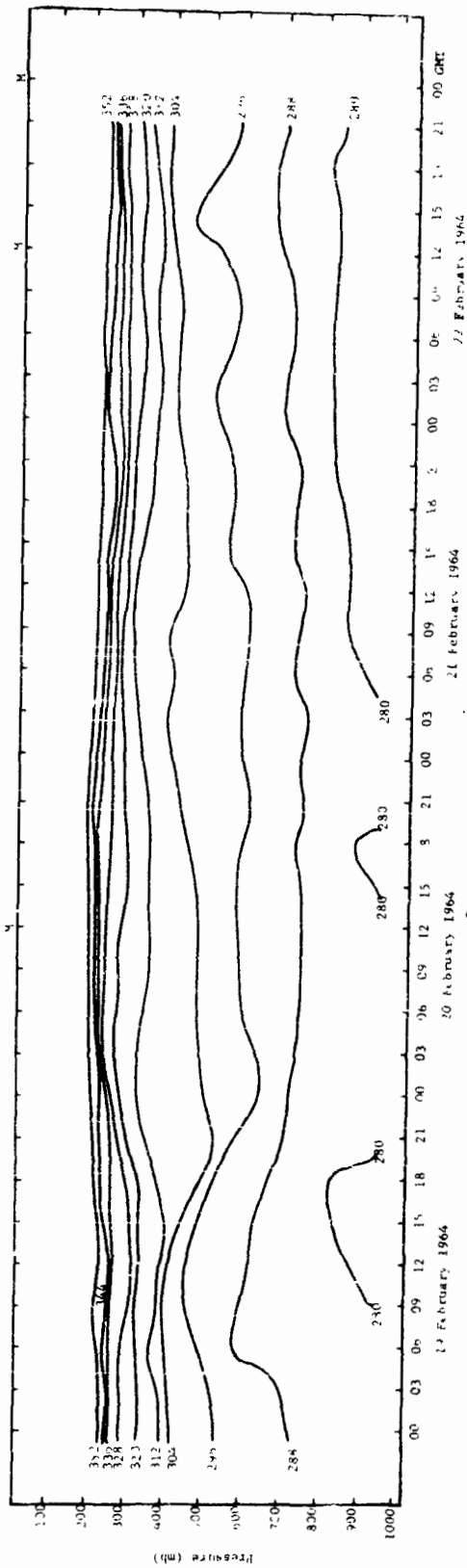
Dewpoint Depression (°C) for Lake Charles, Louisiana, Station Number 33022

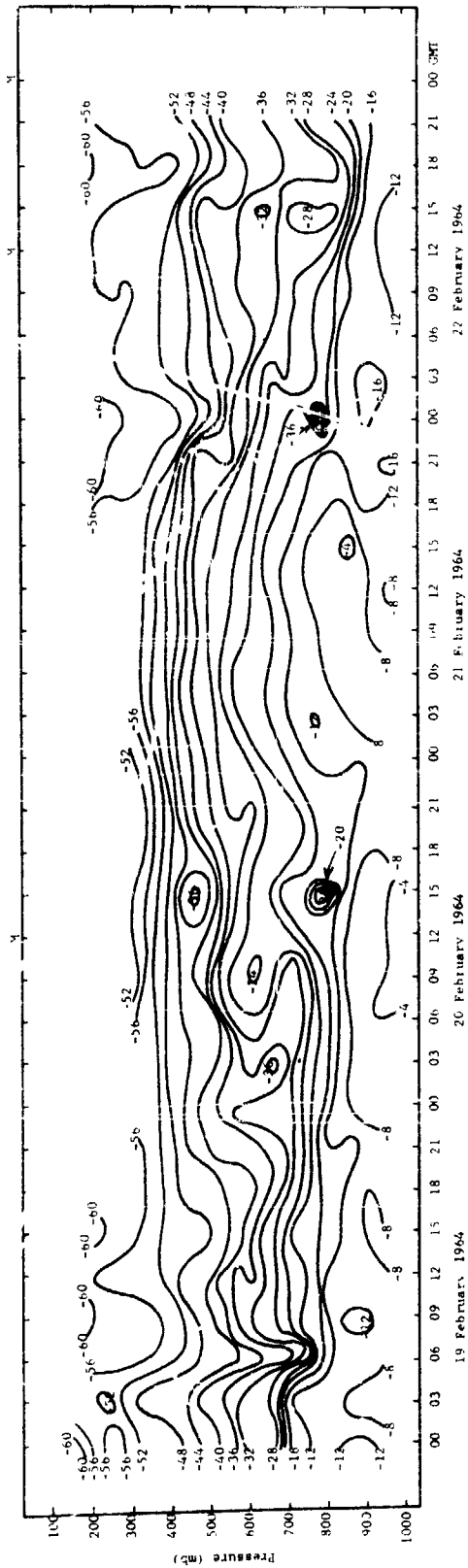


Height (gpm) for Lake Charles, Louisiana, Station Number 33022

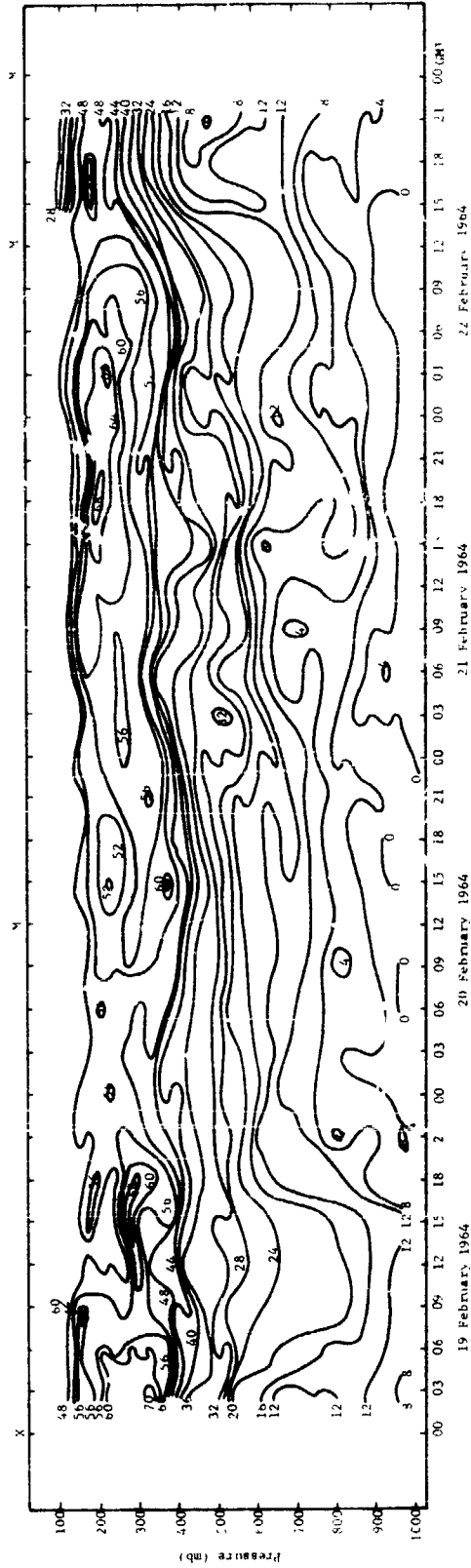
Station Number 33023

Shreveport, Louisiana

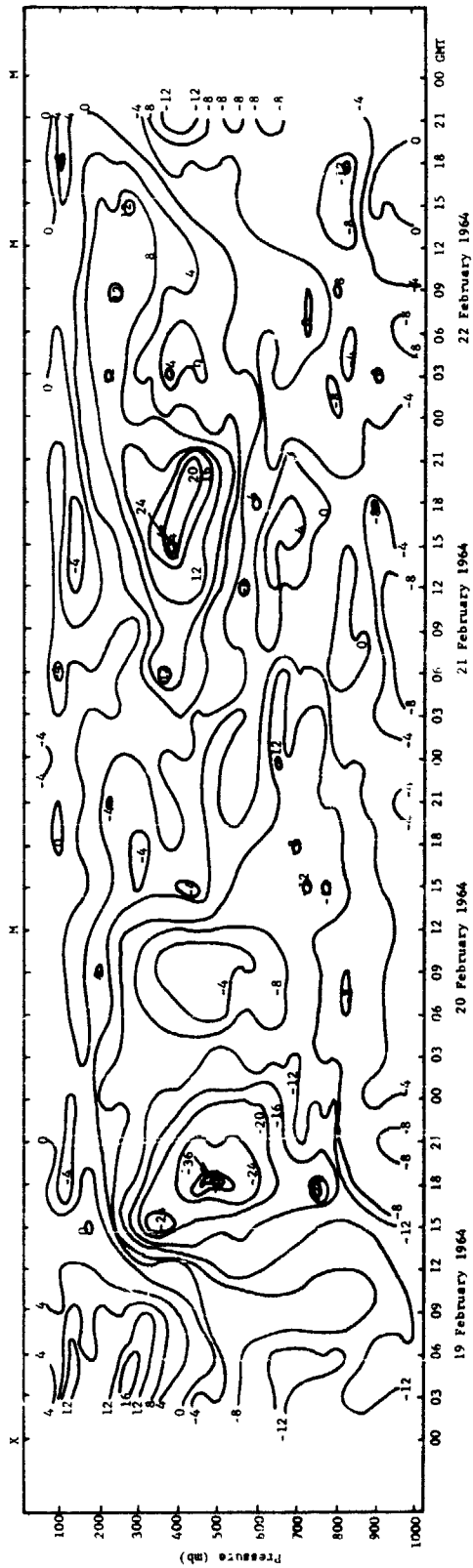




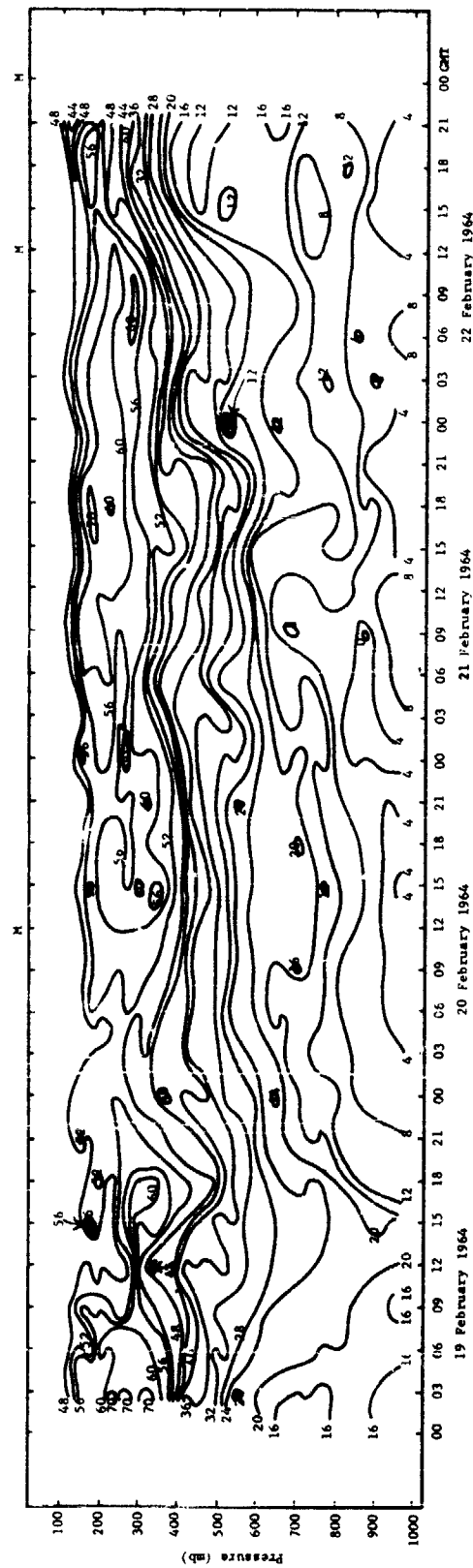
Dewpoint Temperature ($^{\circ}$ C) for Shreveport, Louisiana, Station Number 33023



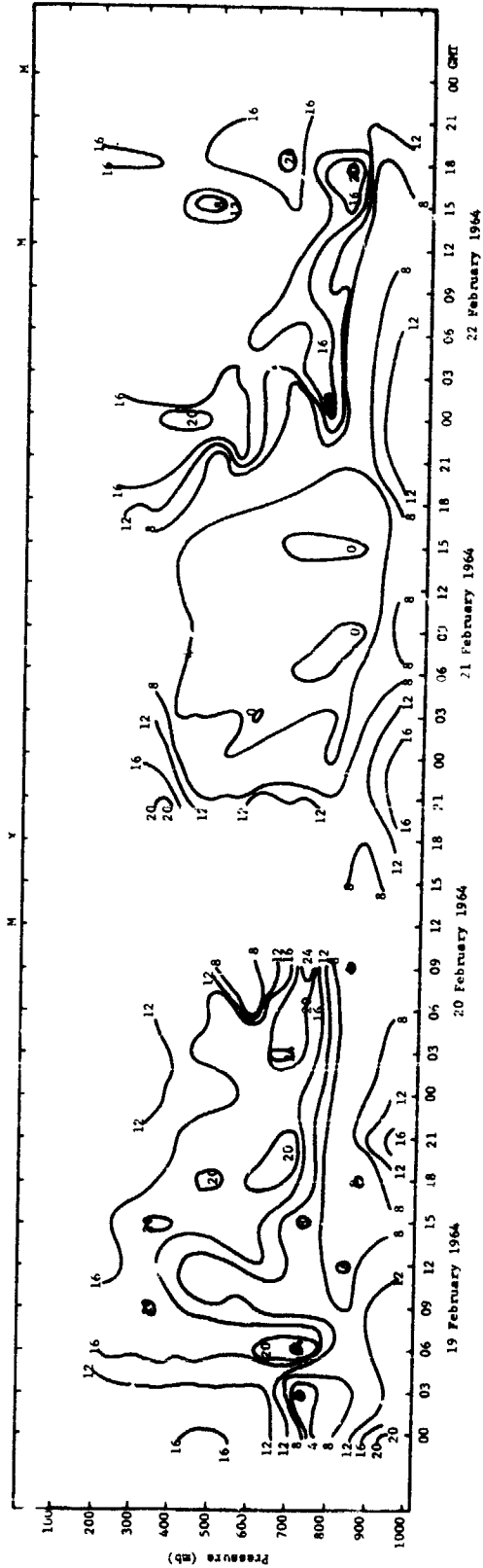
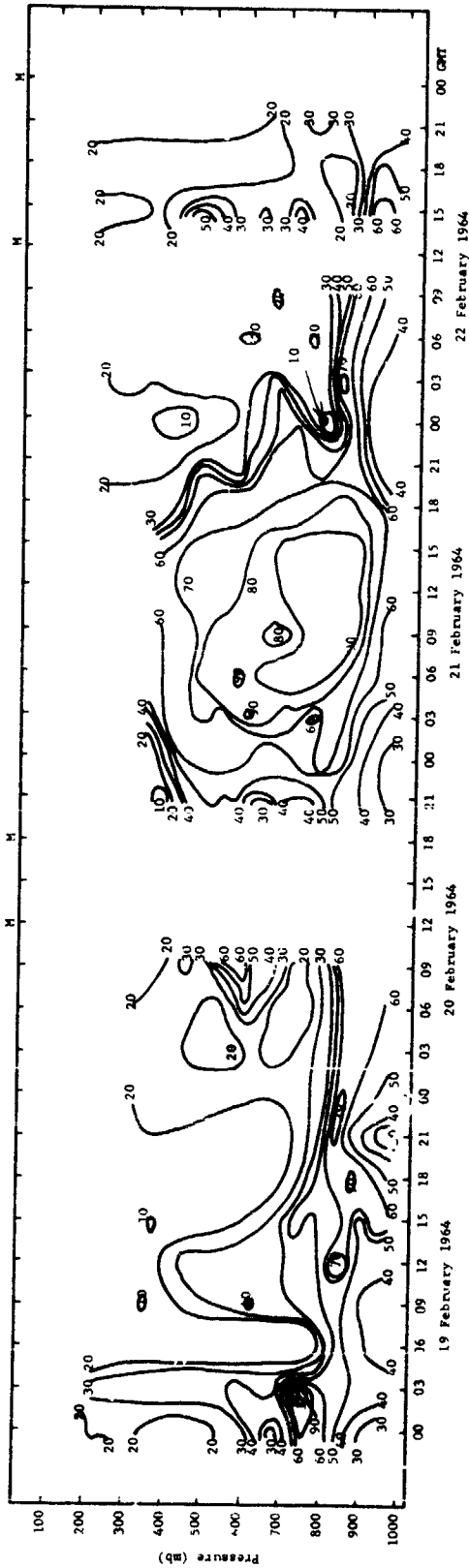
Zonal Wind Component (m/sec) for Shreveport, Louisiana, Station Number 33023

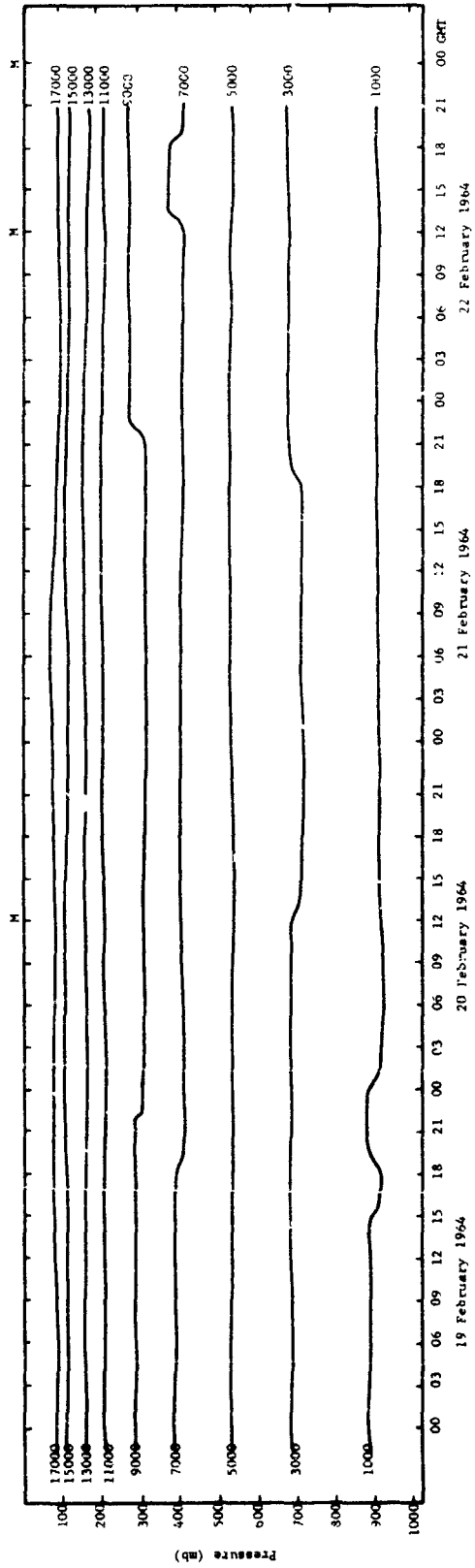


Meridional Wind Component (m/sec) for Shreveport, Louisiana, Station Number 33023



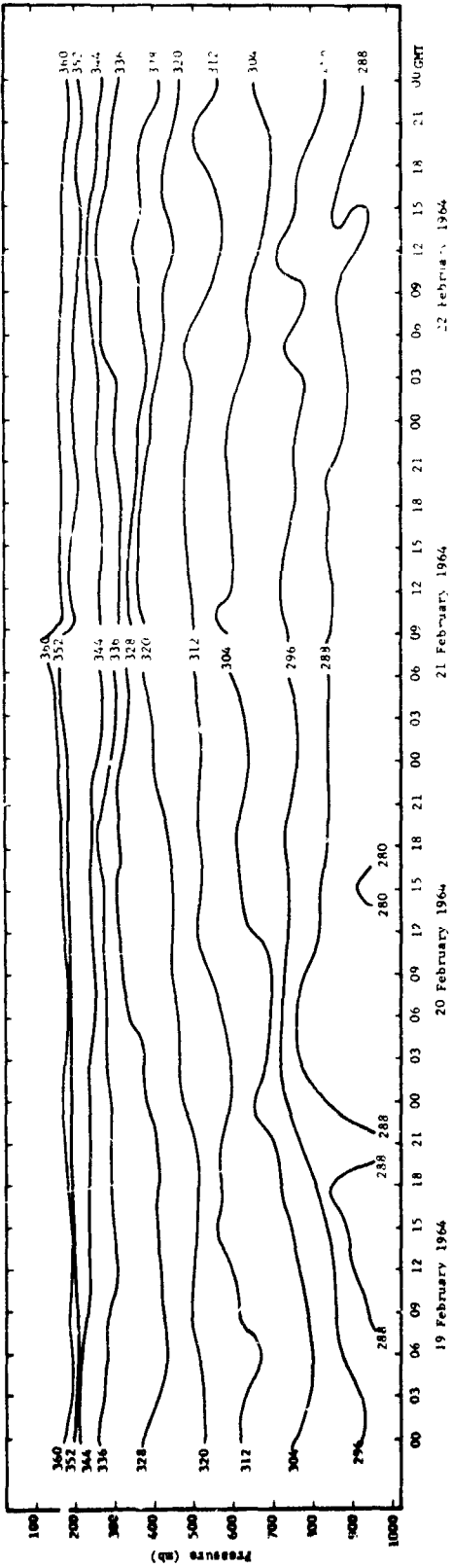
Wind Speed (m/sec) for Shreveport, Louisiana, Station Number 33023



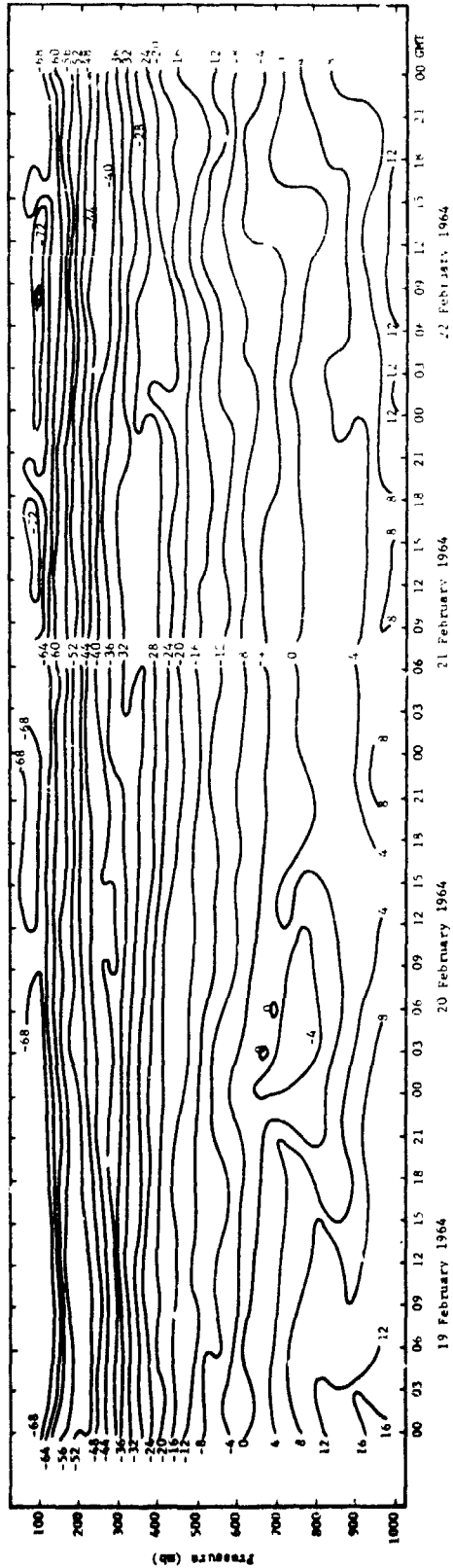


Height (gpm) for Shreveport, Louisiana, Station Number 33023

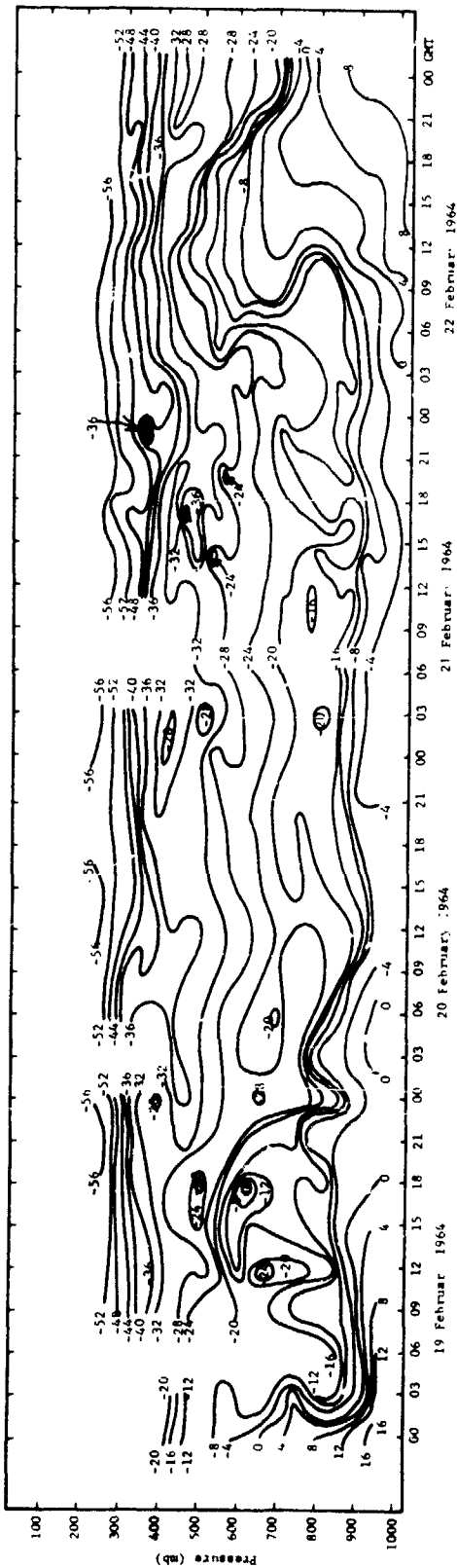
Station Number 44001
Cape Kennedy, Florida



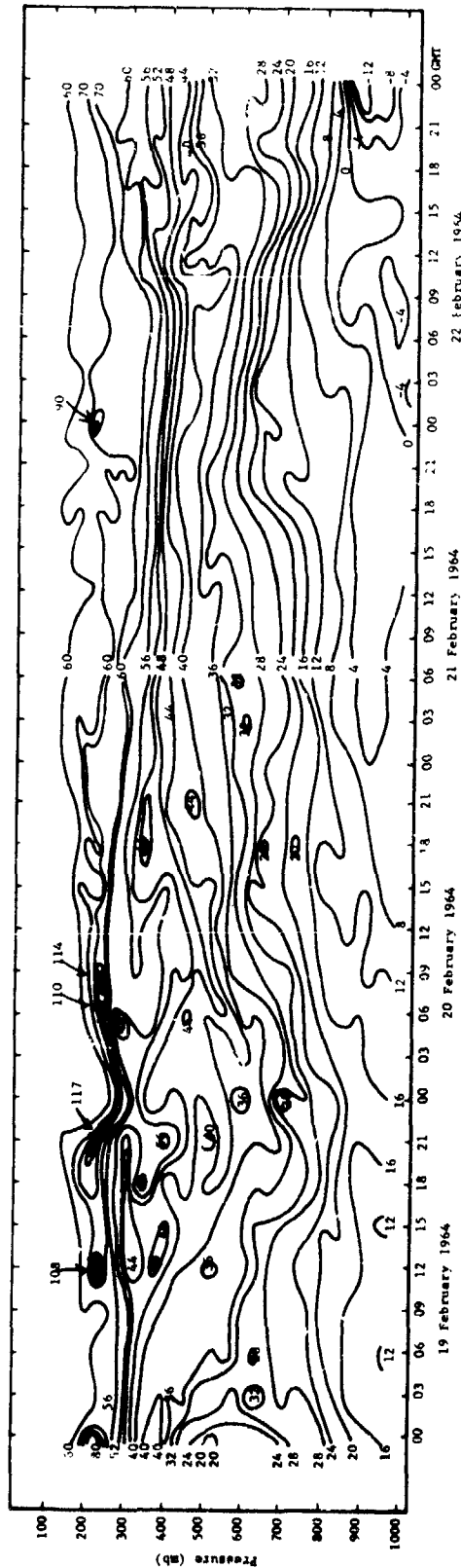
Potential Temperature (K) for Cape Kennedy, Florida, Station Number 44001



Temperature (C) for Cape Kennedy, Florida, Station Number 44001

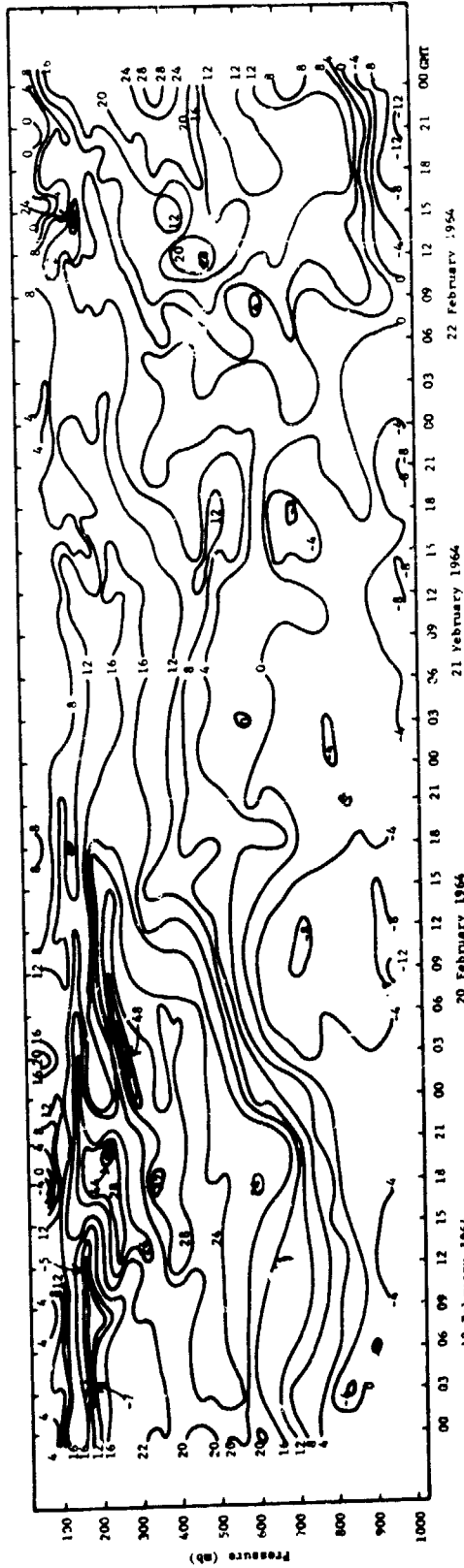


Dewpoint Temperature ($^{\circ}\text{C}$) for Cape Kennedy, Florida, Station Number 44001



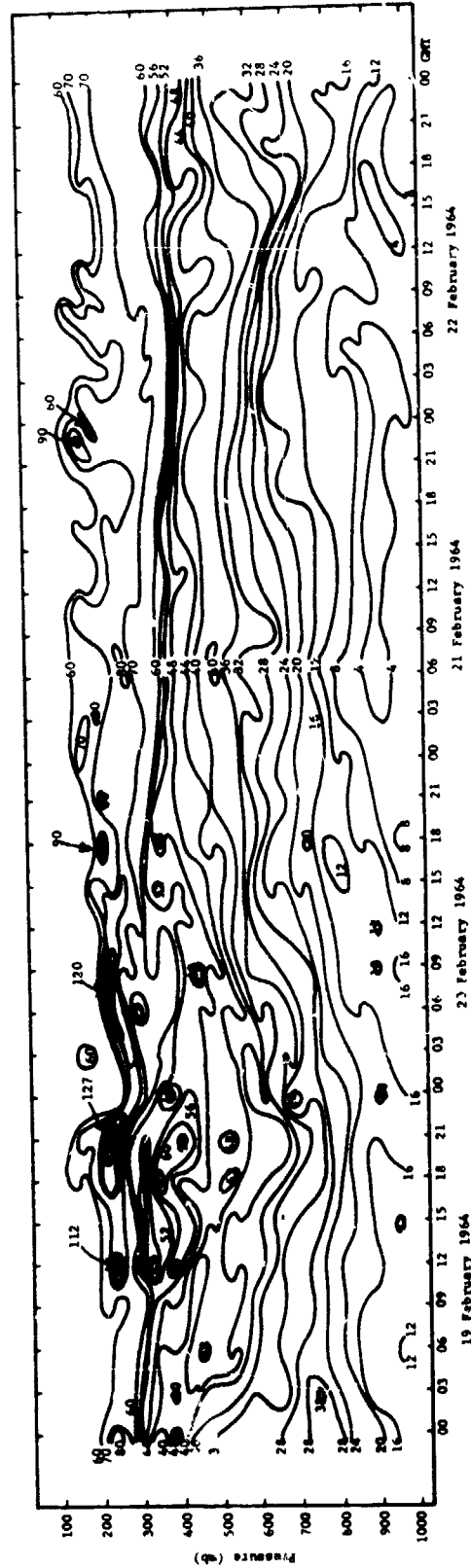
NOTE: Interval not constant

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



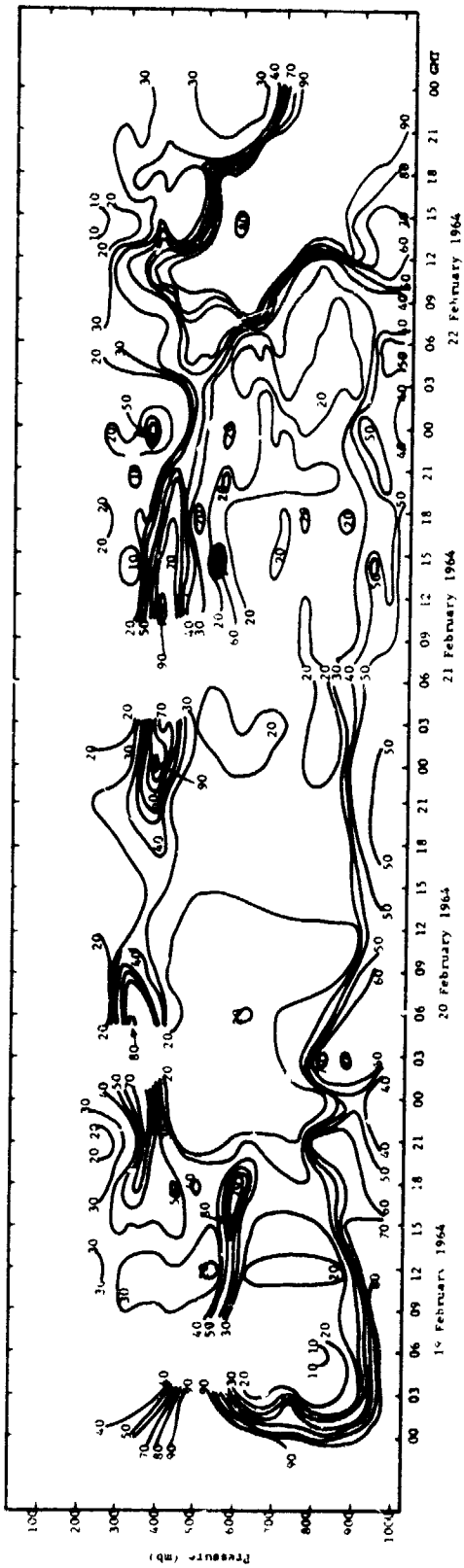
Meridional Wind Component (m/sec) for Cape Kennedy, Florida, Station Number 44001

NOTE: Interval not constant

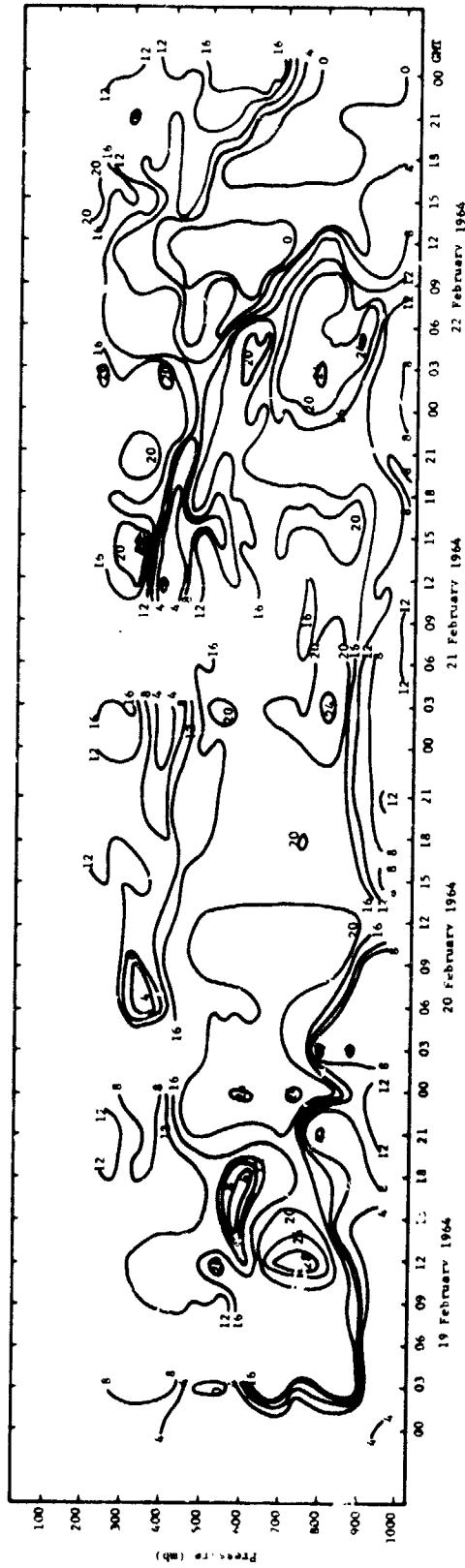


Wind Speed (m/sec) for Cape Kennedy, Florida, Station Number 44001

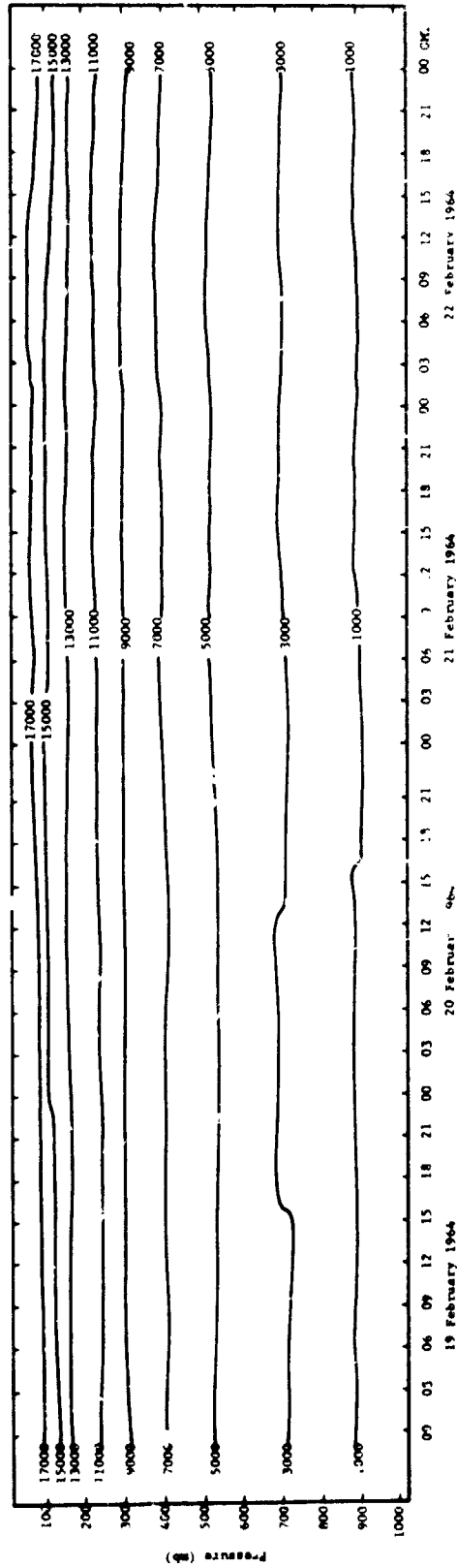
NOTE: Interval not constant



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



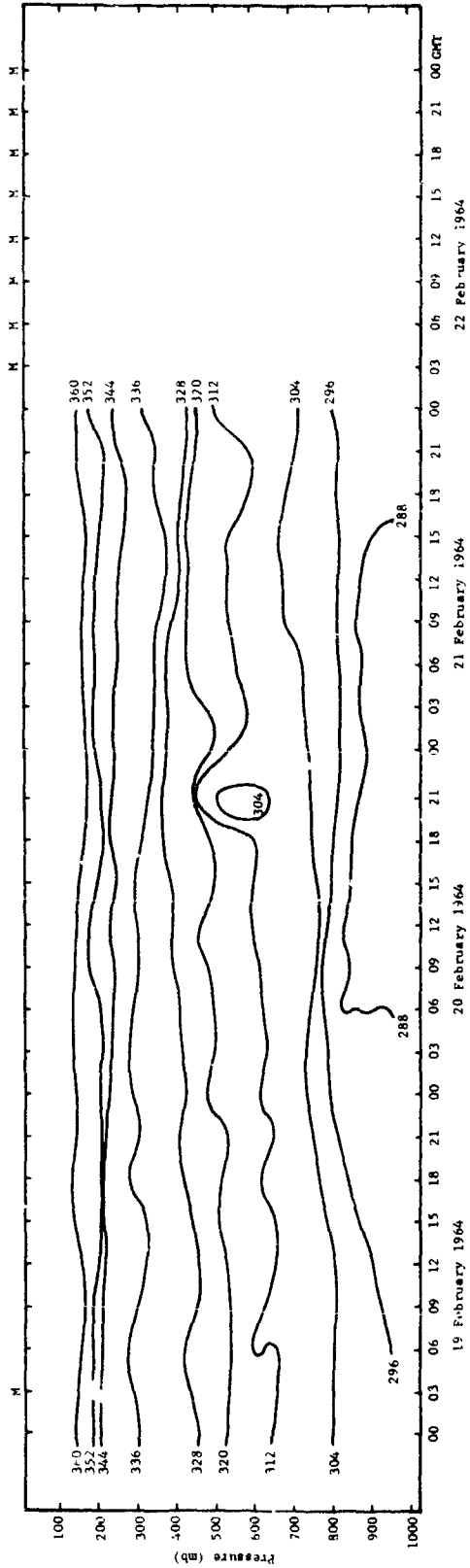
Dewpoint Depression (°C) for Cape Kennedy, Florida, Station Number 4001



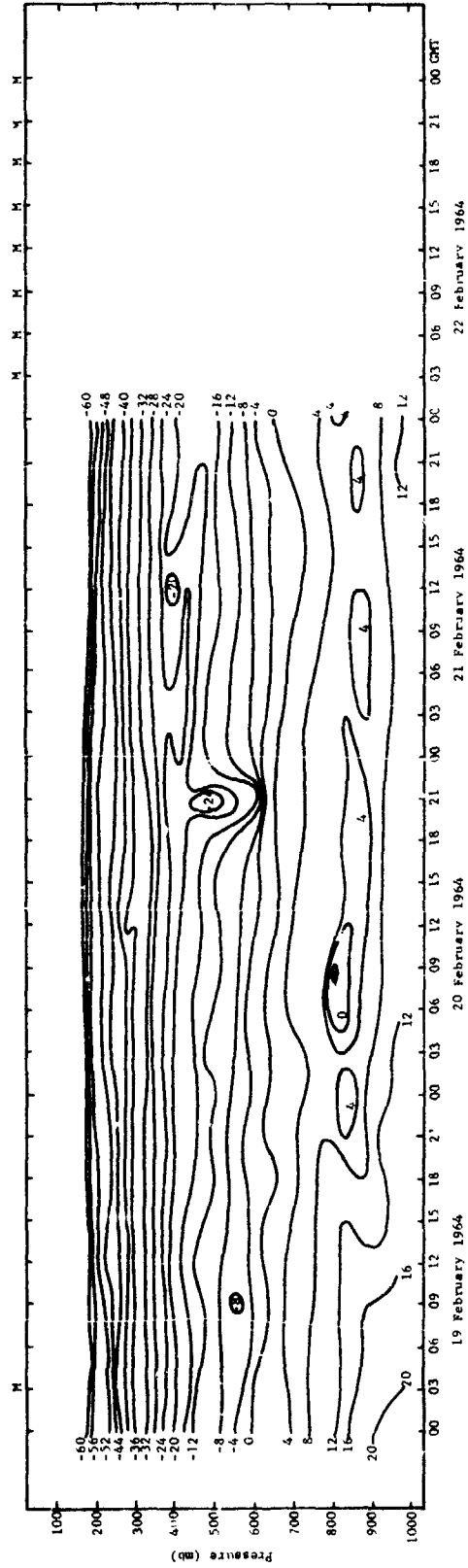
Height (gpm) for Cape Kennedy, Florida, Station Number 44001

Station Number 44002

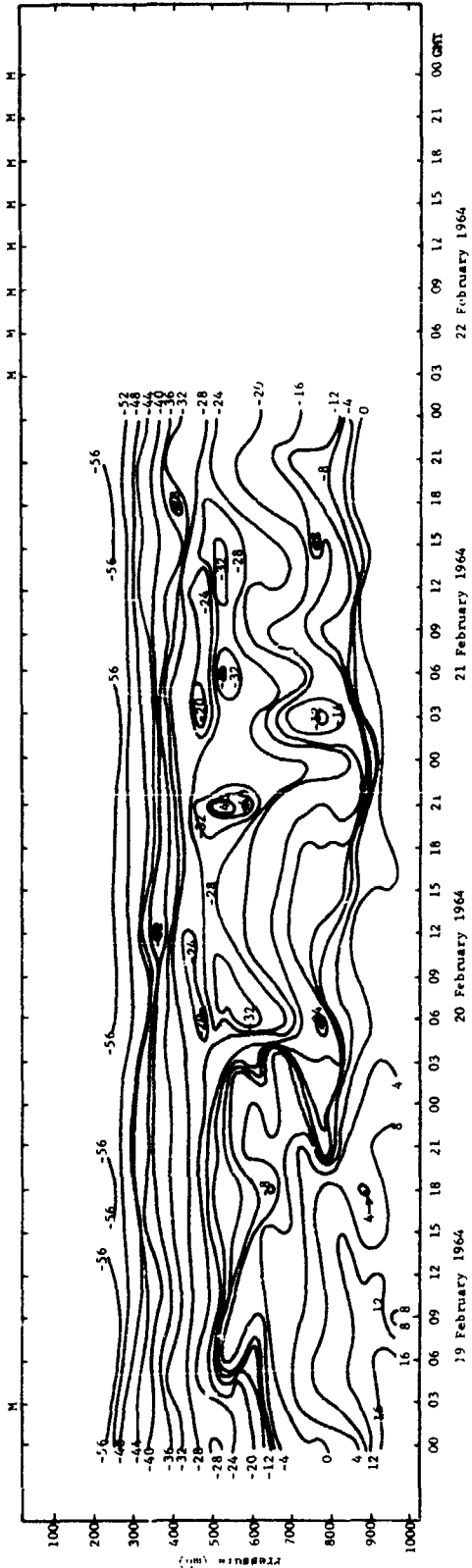
Grand Bahama Islands



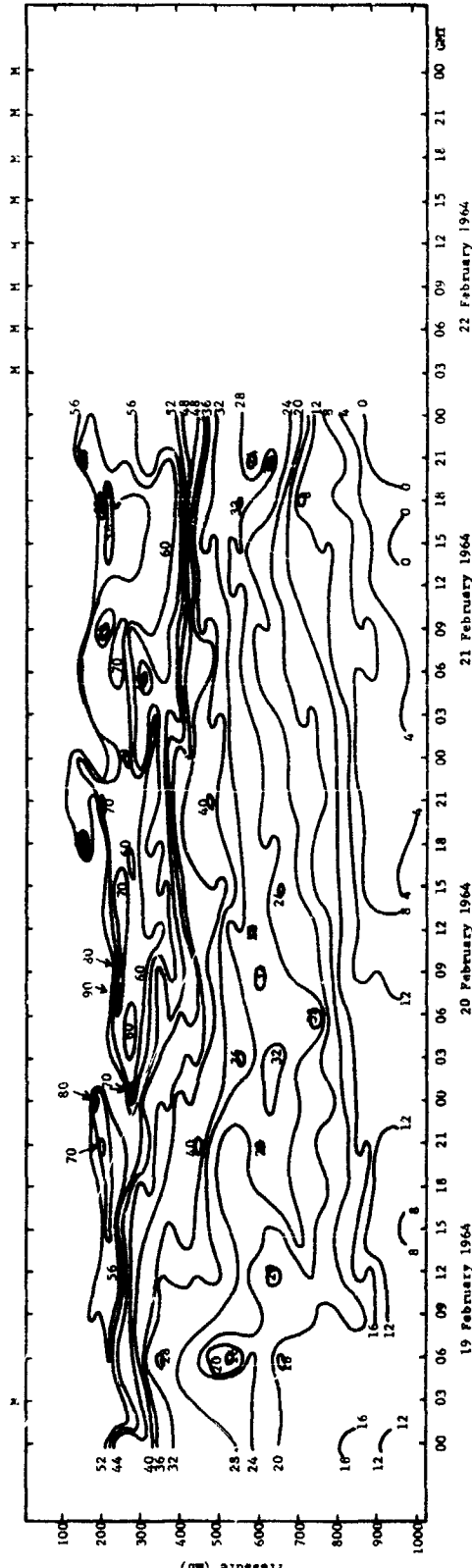
Potential Temperature (K) for Grand Bahama Islands, Station Number 44002



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

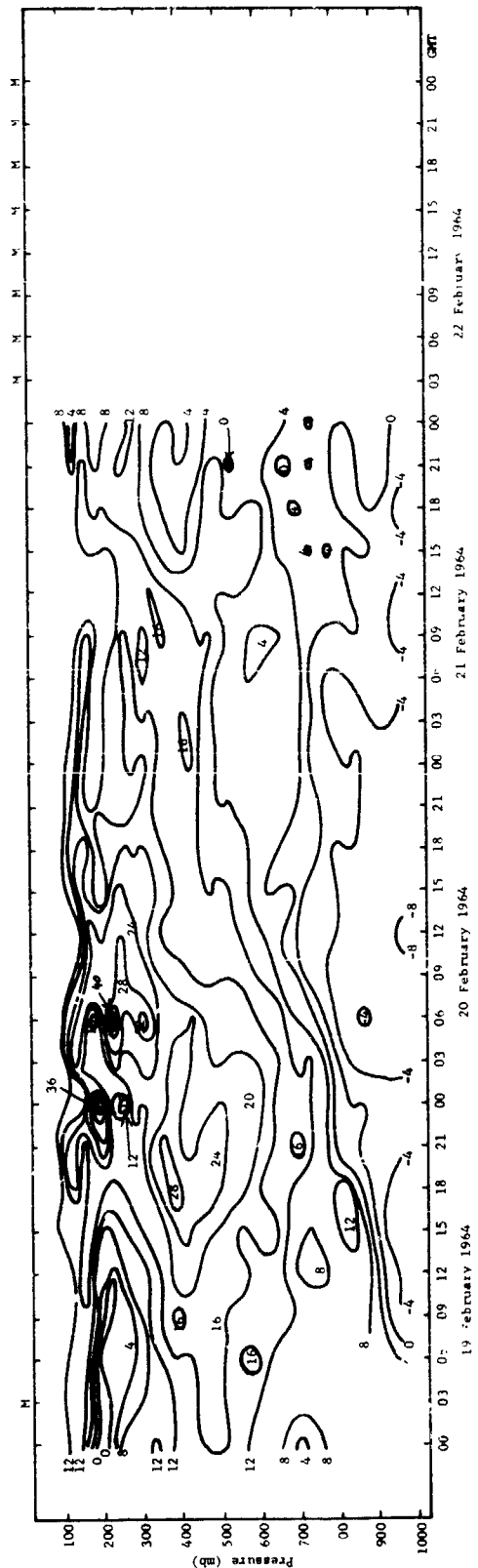


Dewpoint Temperature ($^{\circ}\text{C}$) for Grand Bahama Islands, Station Number 44002

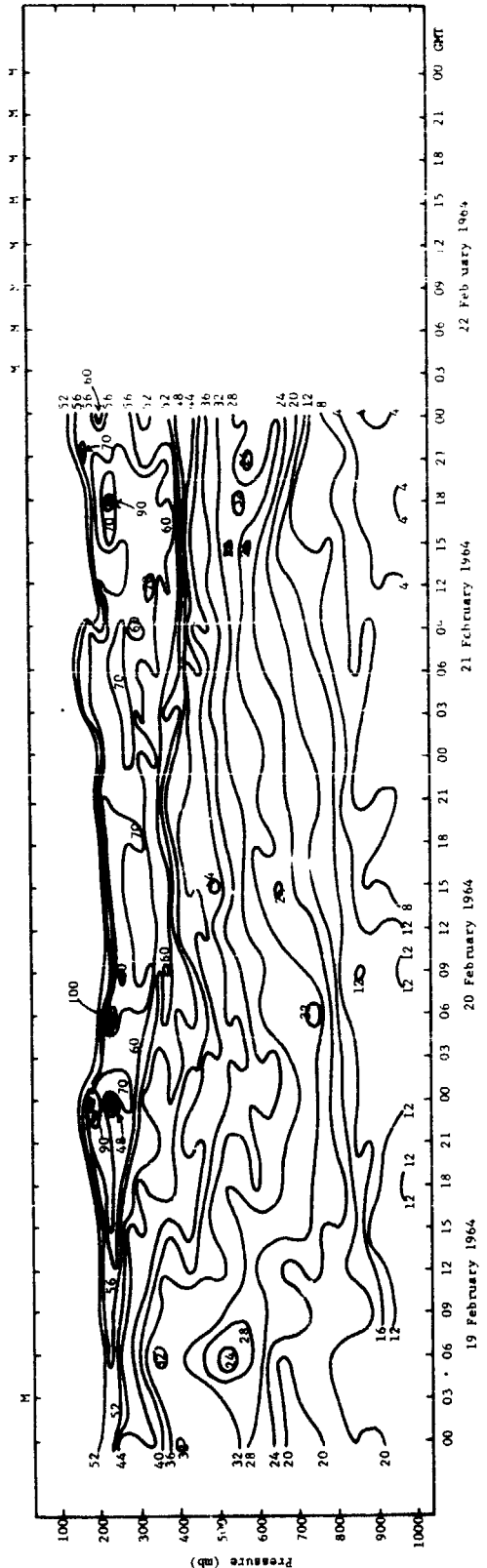


Zonal Wind Component (m/sec) for Grand Bahama Islands, Station Number 44002

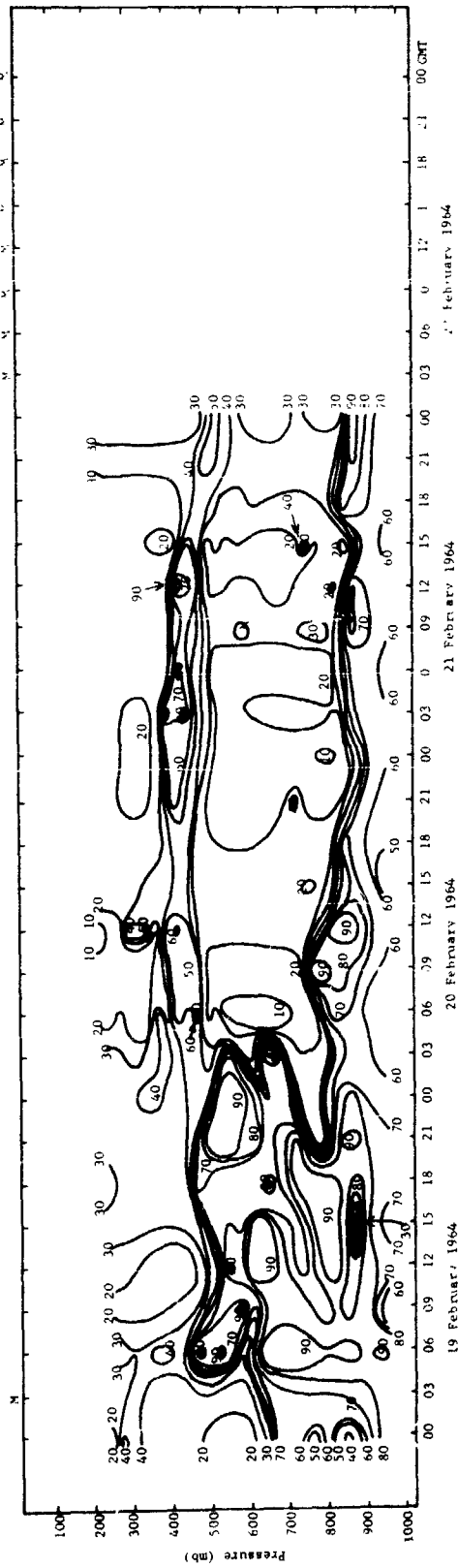
NOTE: Interval not constant



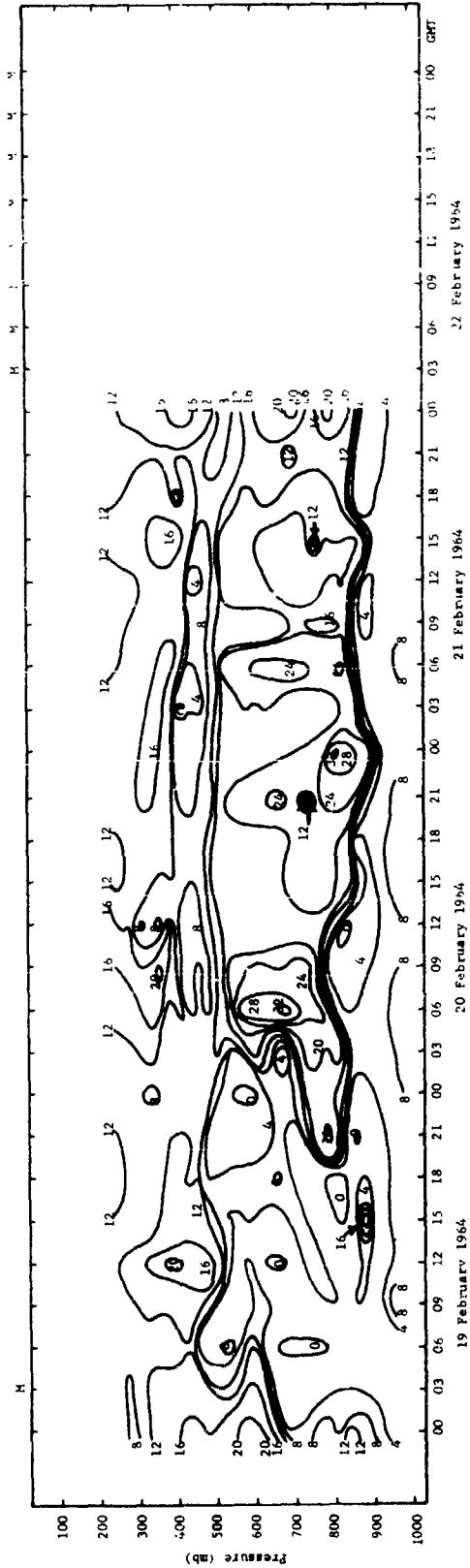
Meridional Wind Component (m/sec) for Grand Bahama Islands, Station Number 44002



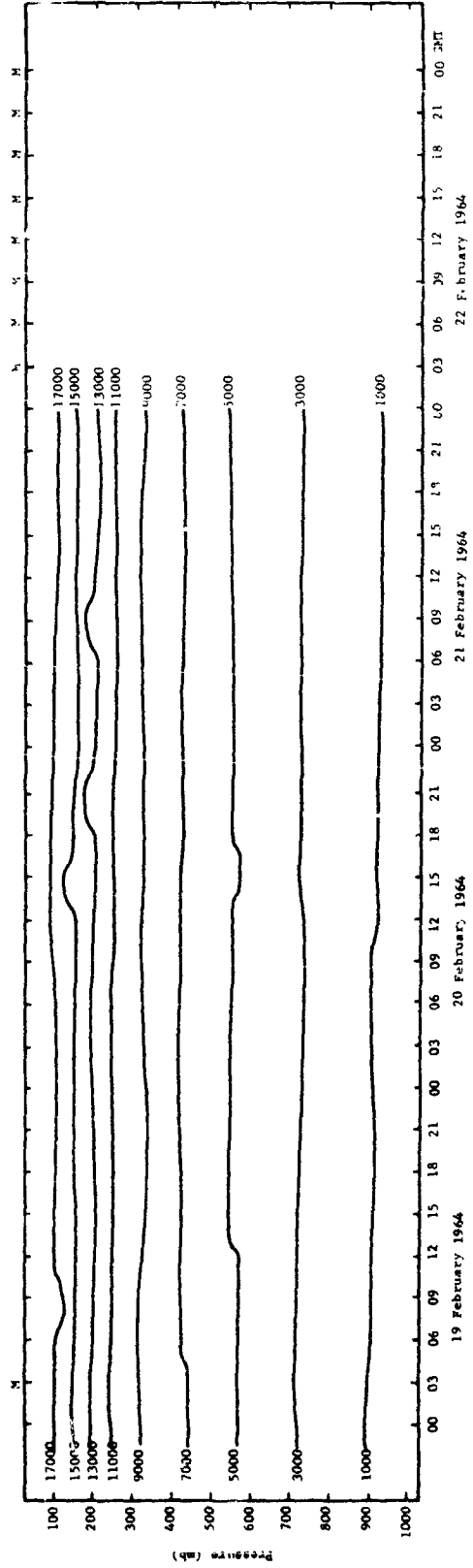
Wind Speed (m/sec) for Grand Bahama Islands, Station Number 44002



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



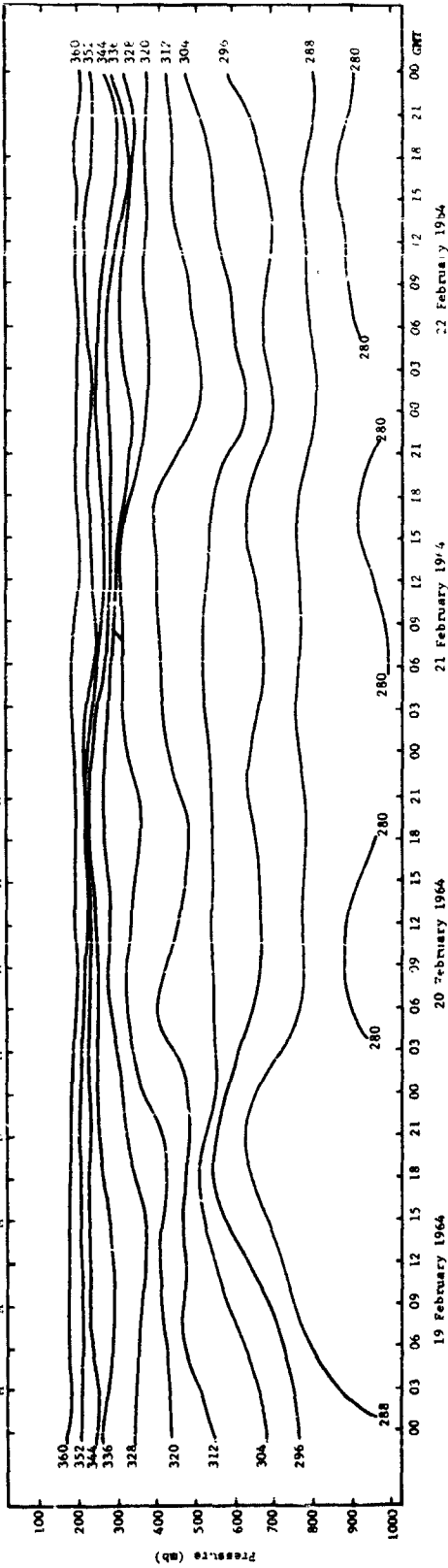
Dewpoint Depression (°C) for Grand Bahama Islands, Station Number 44002



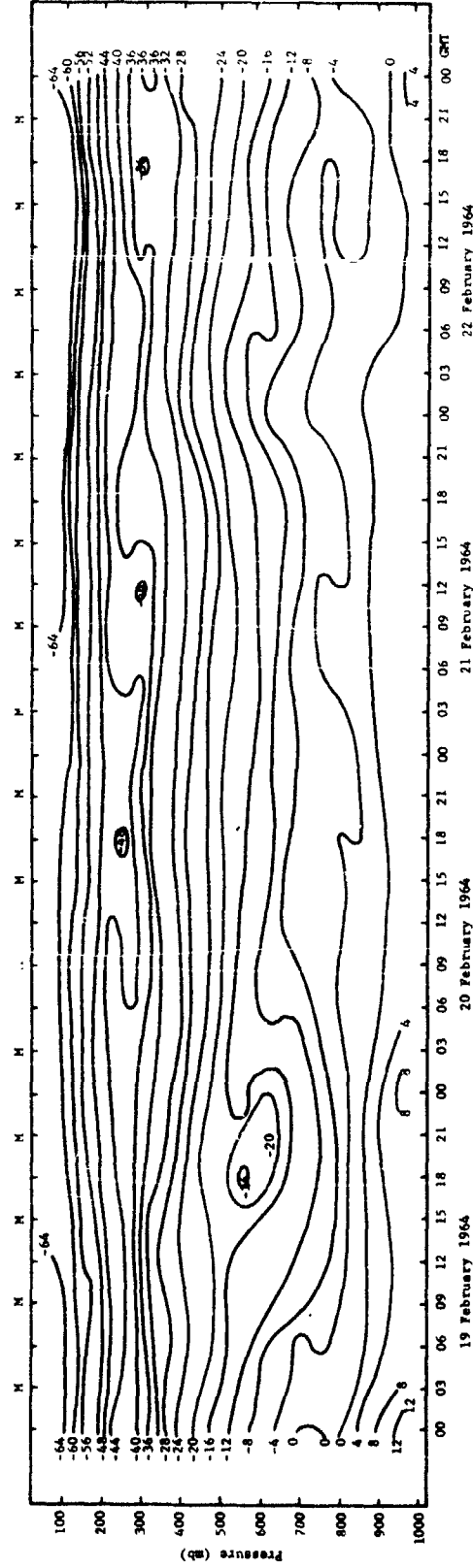
Height (gpm) for Grand Bahama Islands, Station Number 44002

Station Number 44003

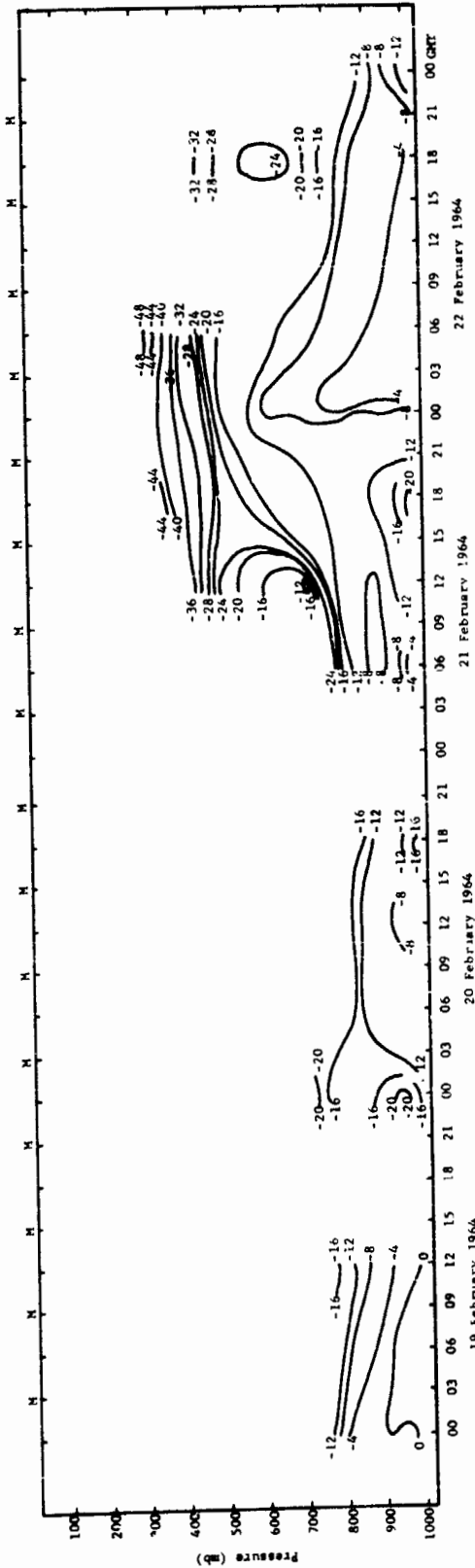
Valparaiso, Florida



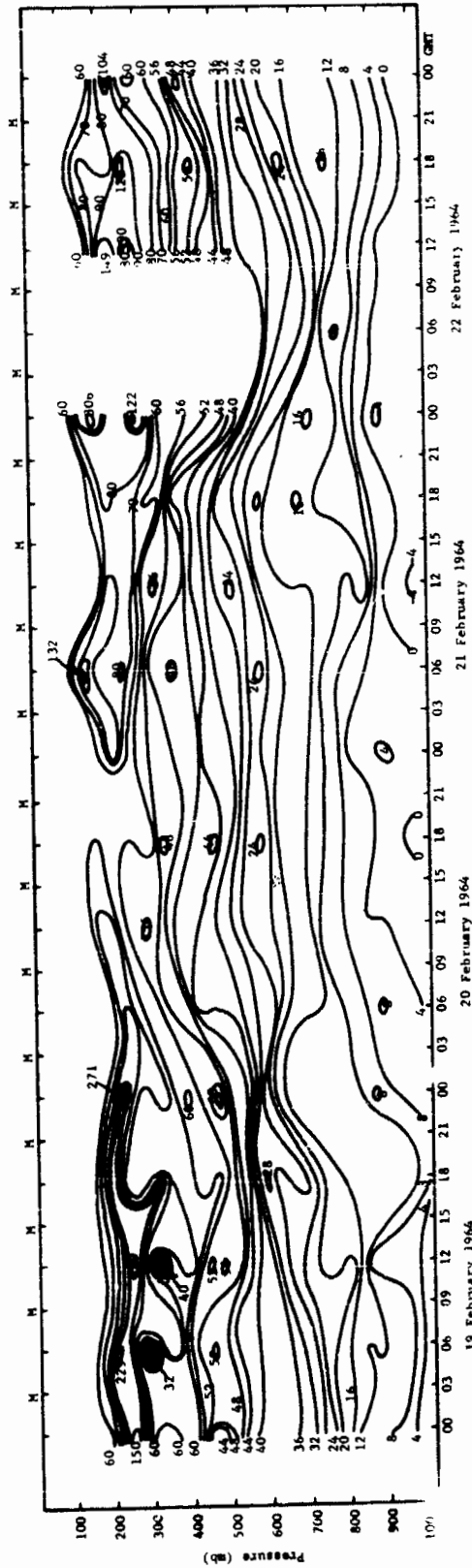
Potential Temperature ($^{\circ}$ K) for Valparaiso, Florida, Station Number 44003



Temperature ($^{\circ}$ C) for Valparaiso, Florida, Station Number 44003

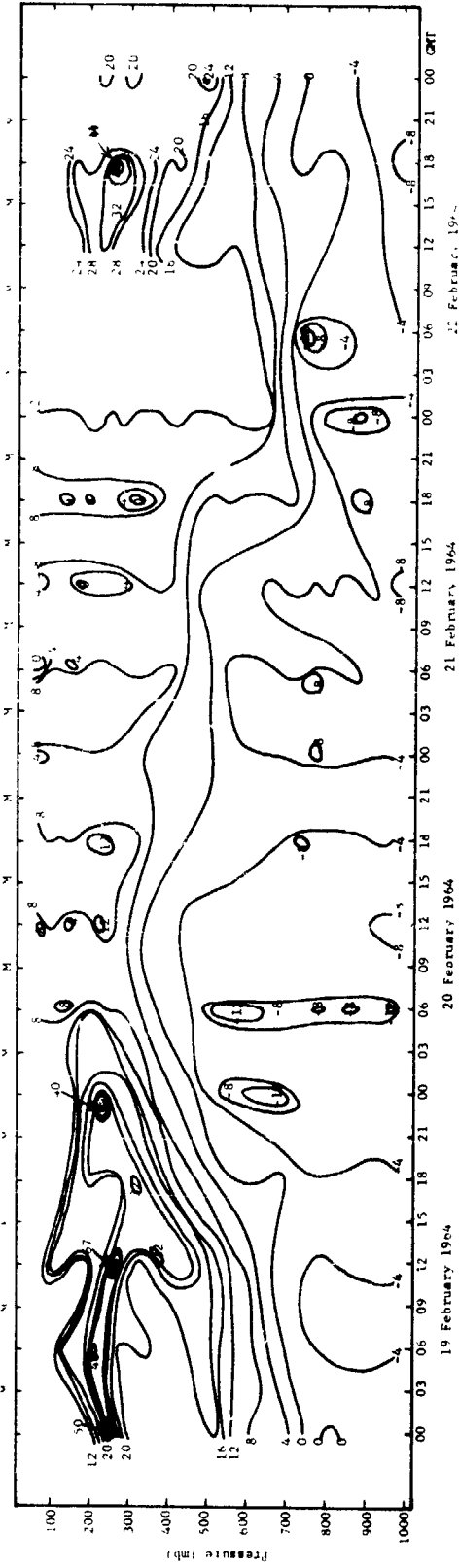


Dewpoint Temperature (°C) for Valparaiso, Florida, Station Number 44003

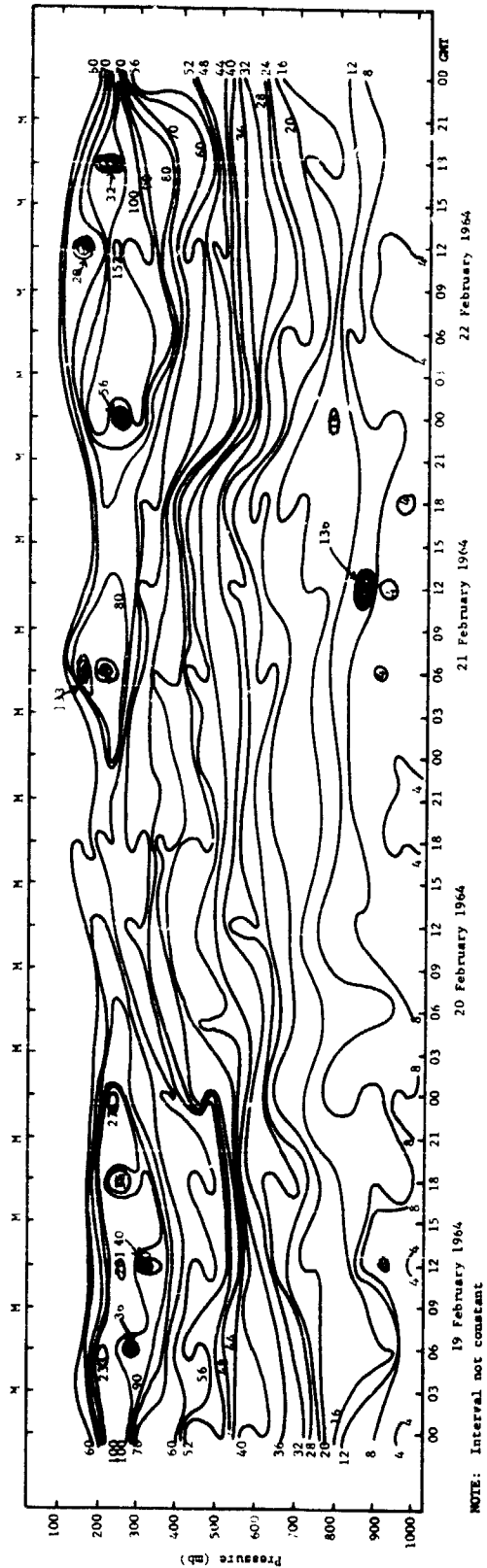


NOTE: Interval not constant

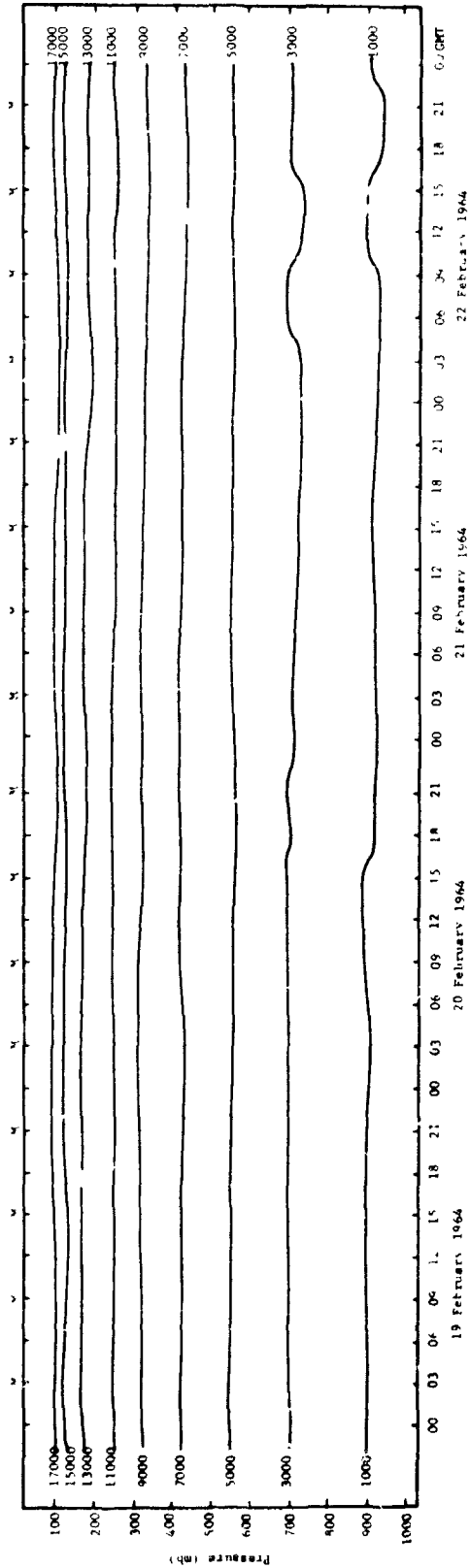
Zonal Wind Component (mi/sec) for Valparaiso, Florida, Station Number 44003



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



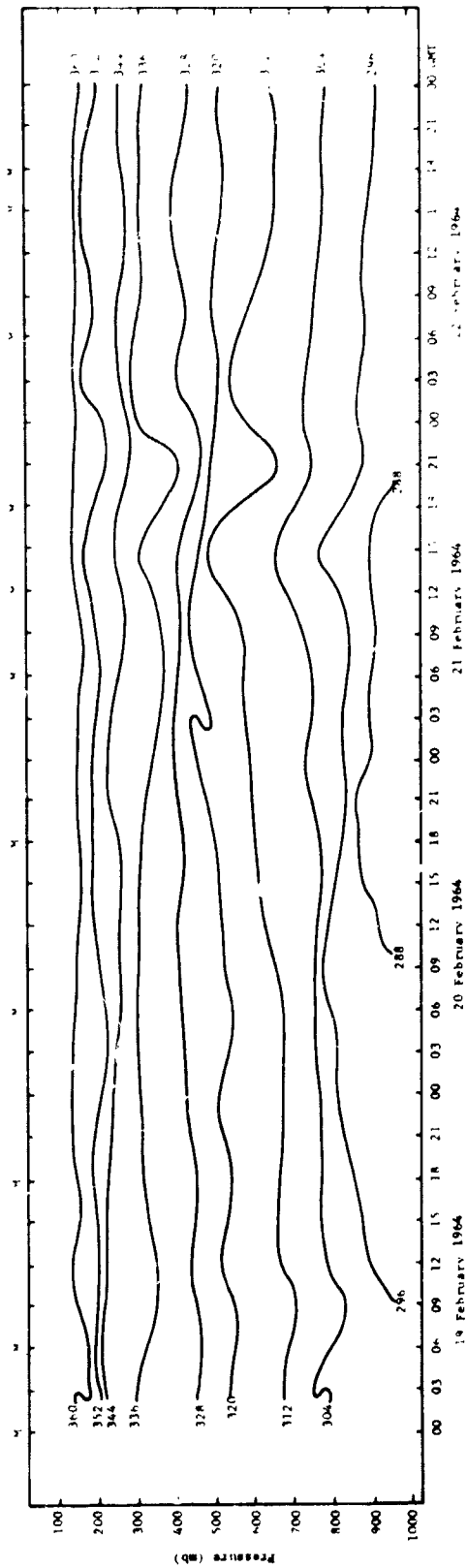
Wind Speed (m/sec) for Valparaiso, Florida, Station Number 44003



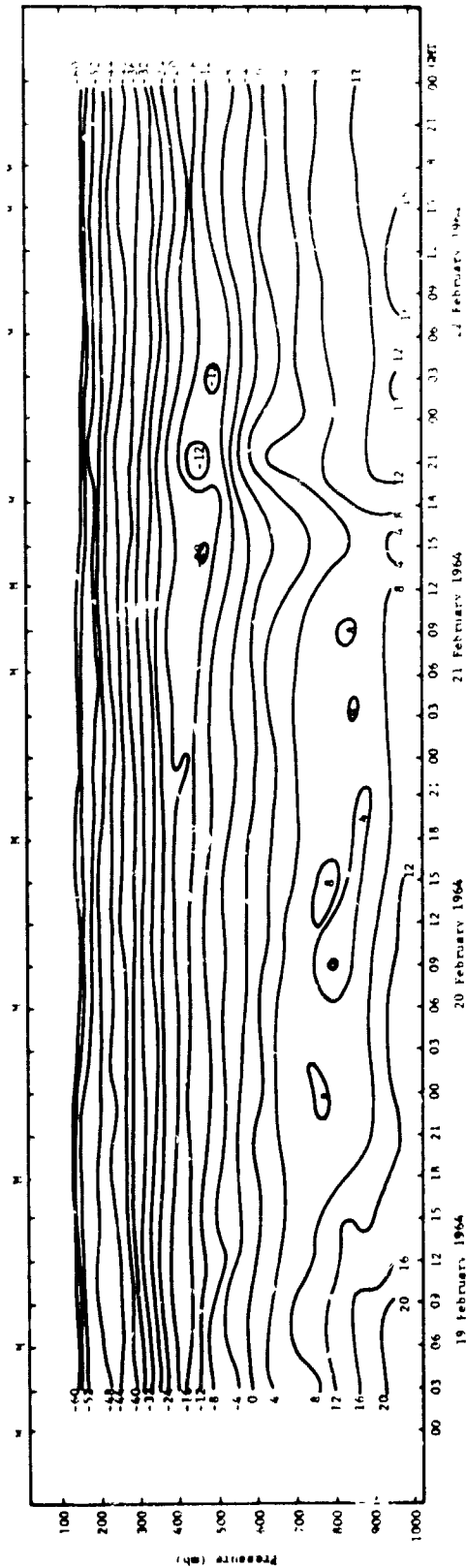
Height (gpm) for Valparaiso, Florida, Station Number 44003

Station Number 55001

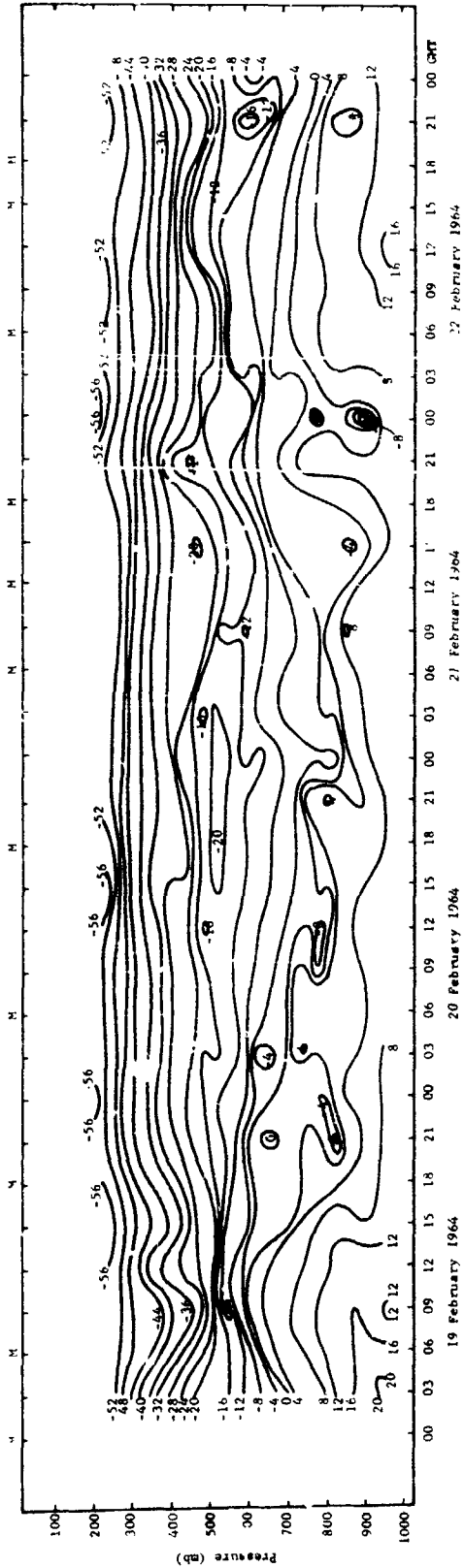
Key West, Florida



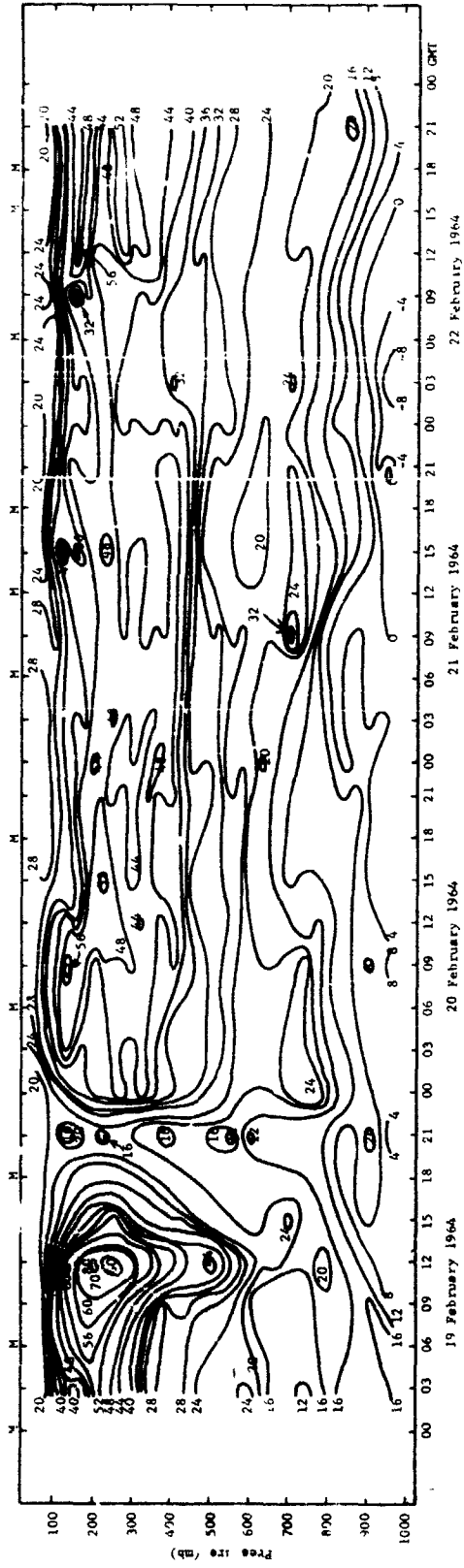
Potential Temperature (K) for Key West, Florida, Station Number 55001



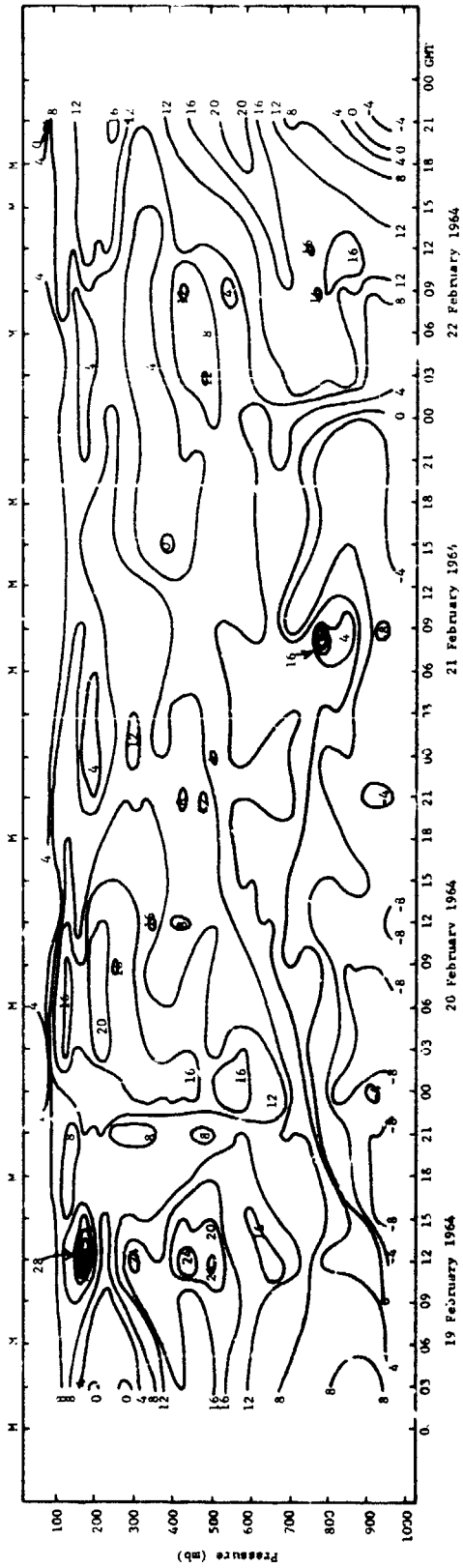
Temperature (C) for Key West, Florida, Station Number 55001



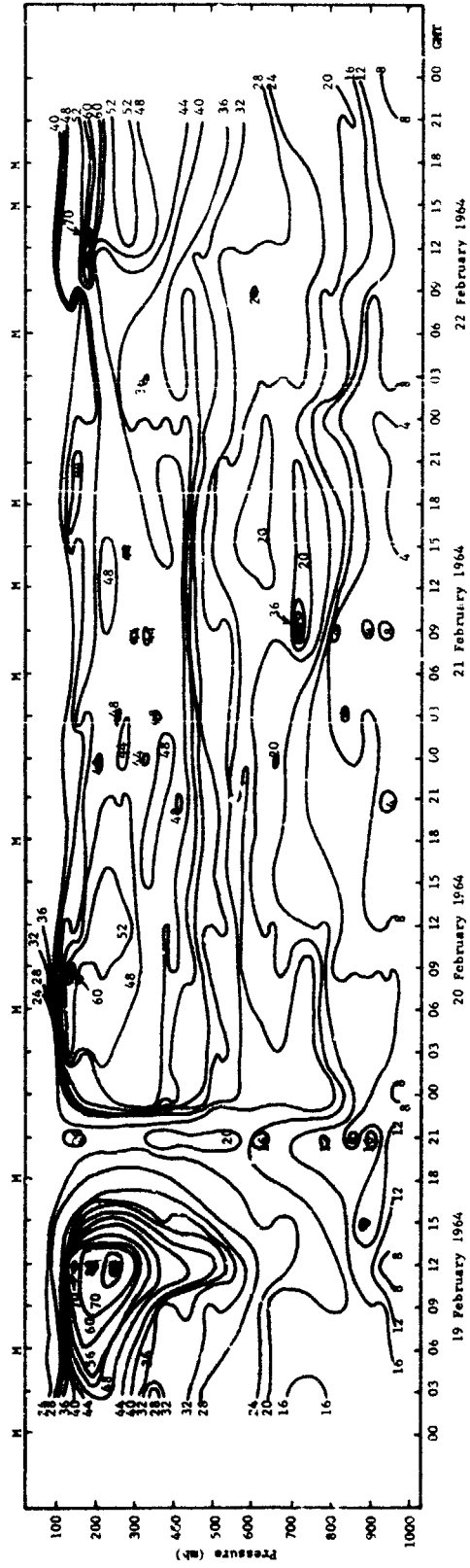
Dewpoint Temperature ($^{\circ}\text{C}$) for Key West, Florida, Station Number 55001



NOTE: Interval not constant

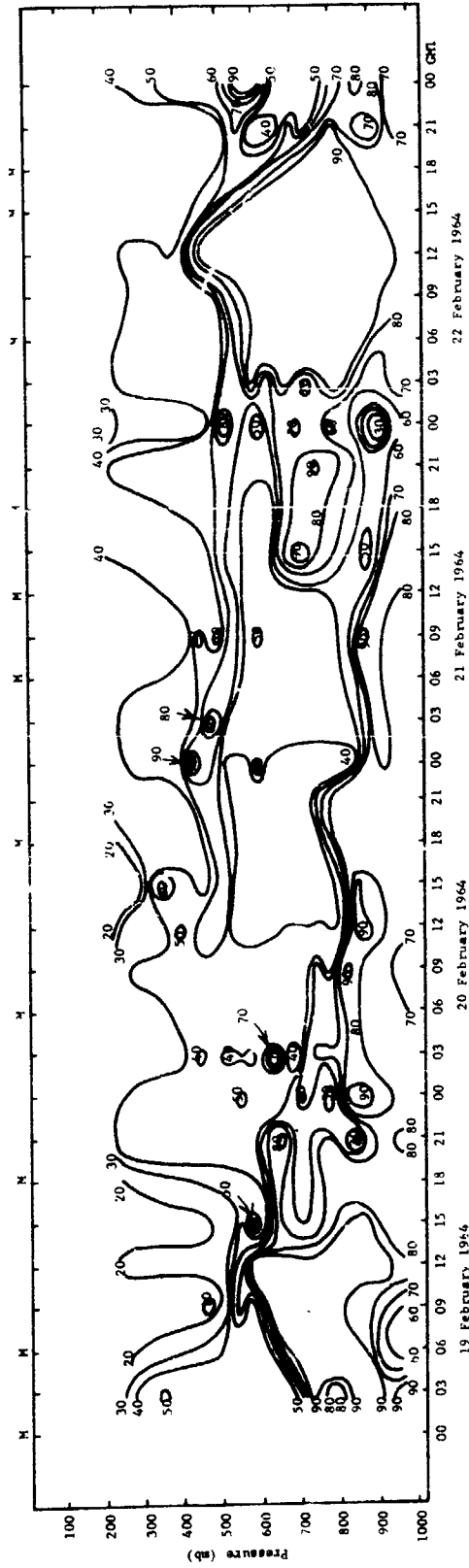


Meridional Wind Component (m/sec) for Key West, Florida, Station Number 55001

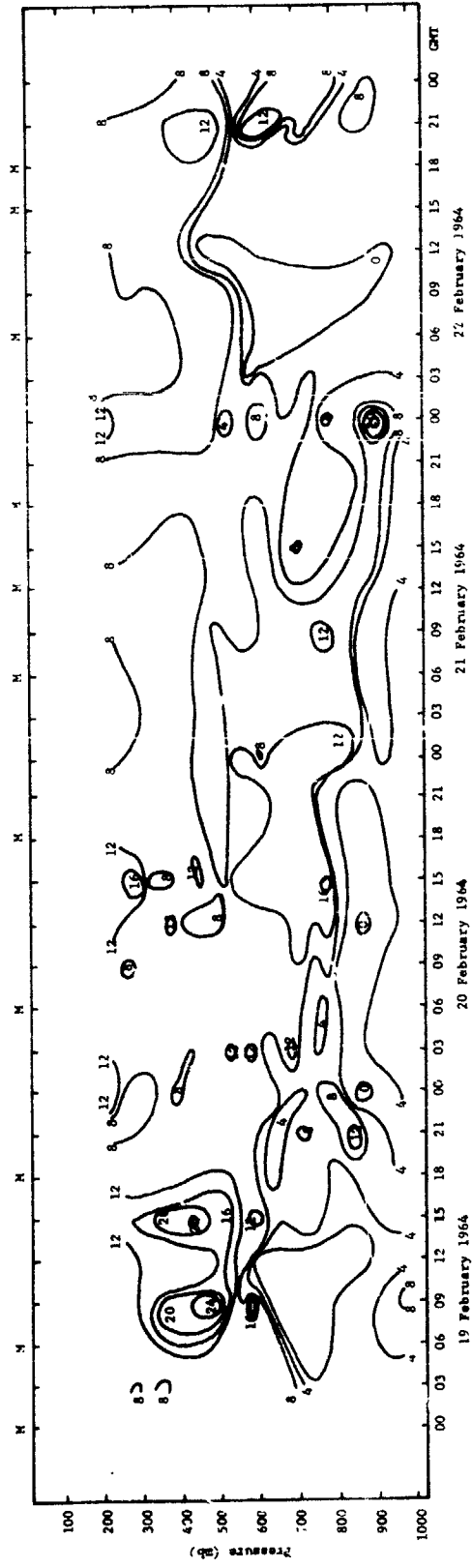


Wind Speed (m/sec) for Key West, Florida, Station Number 55001

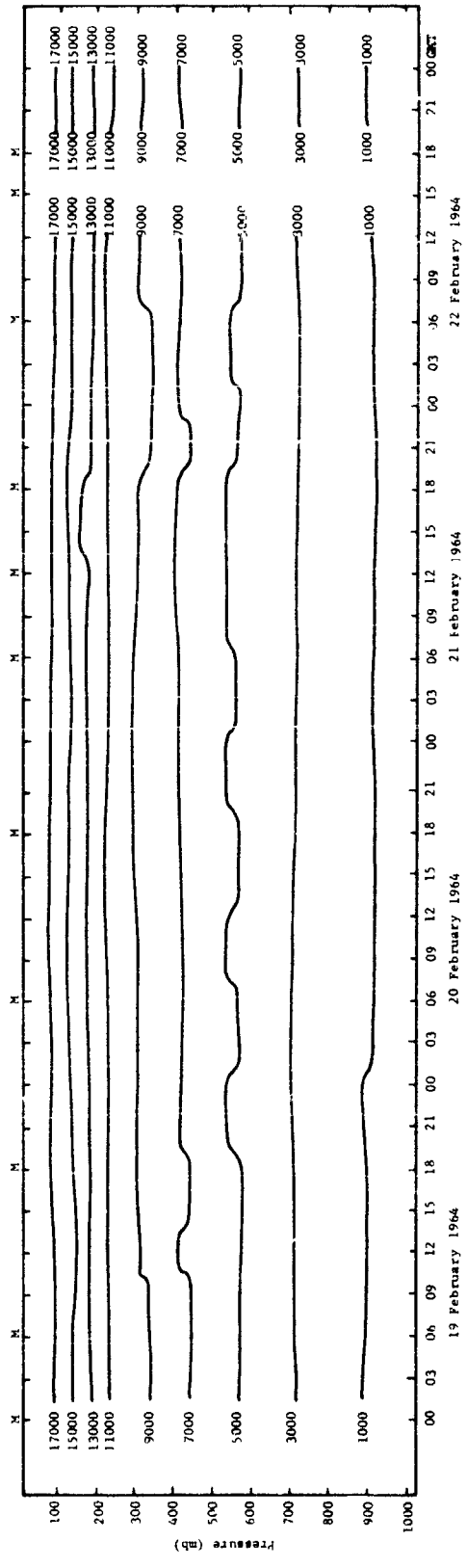
NOTE: Interval not constant



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



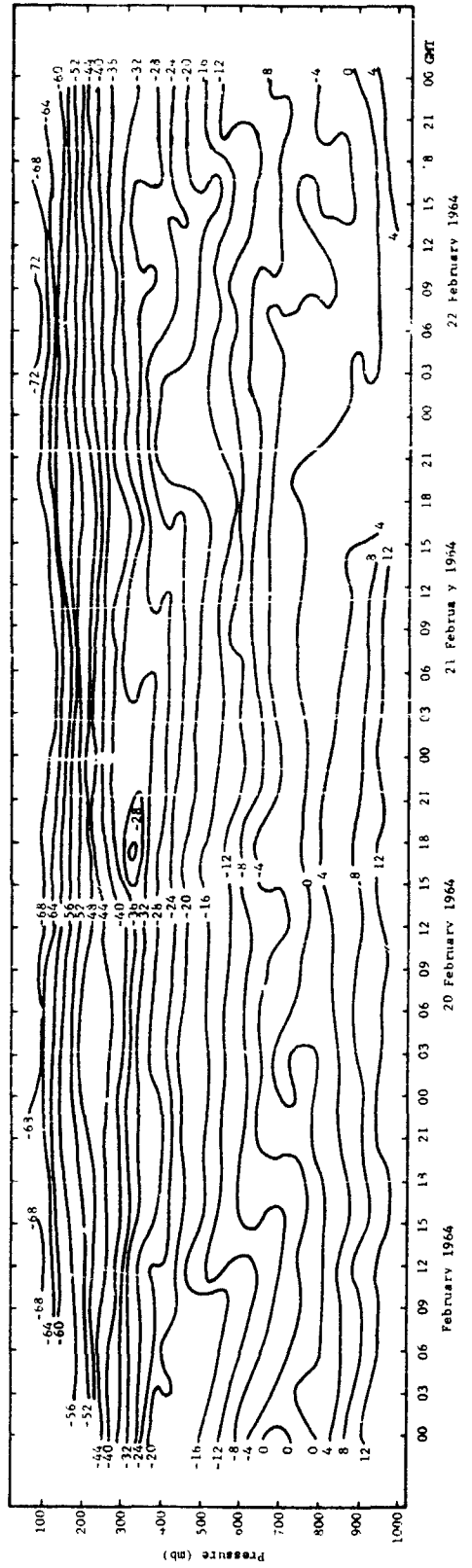
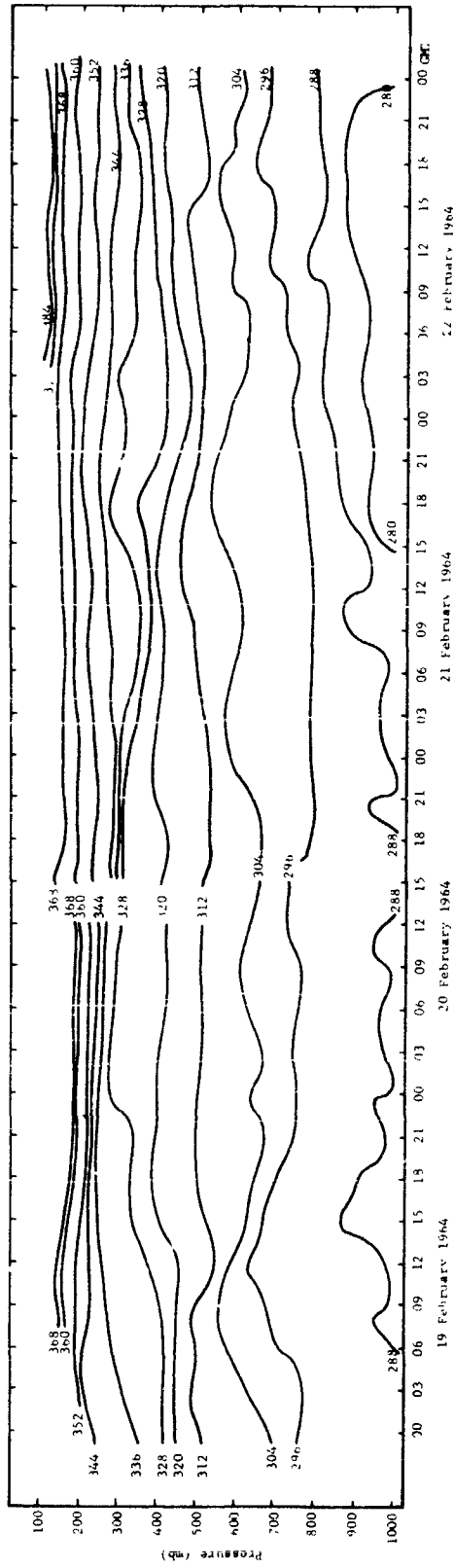
Dewpoint Depression (°C) for Key West, Florida, Station Number 55001

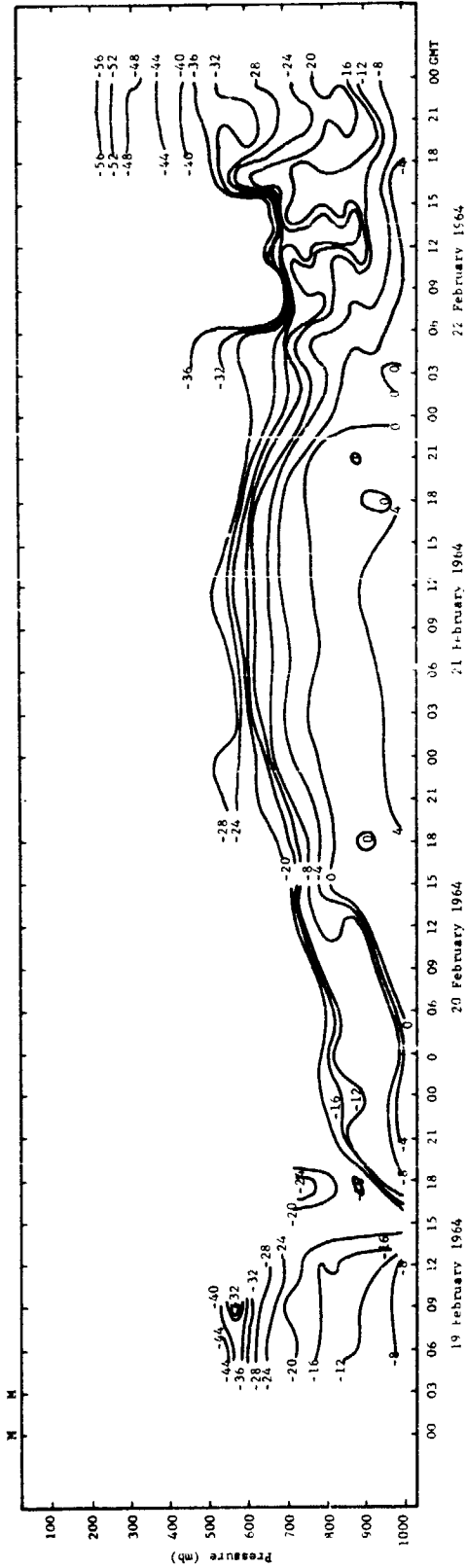


Height (gpm) for Key West, Florida, Station Number 55001

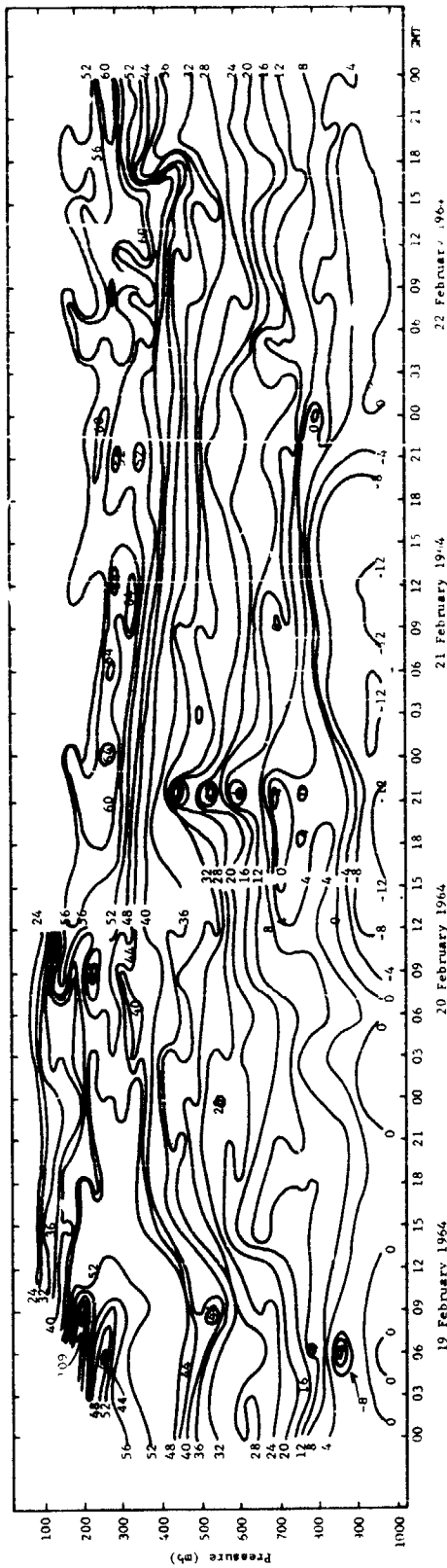
Station Number 55002

Corpus Christi, Texas

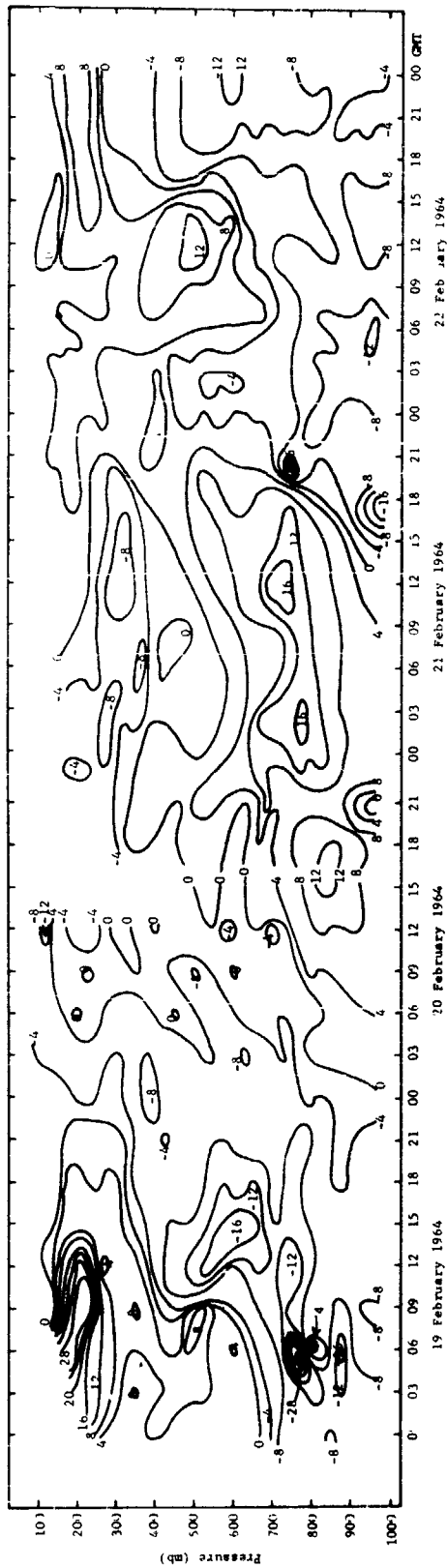




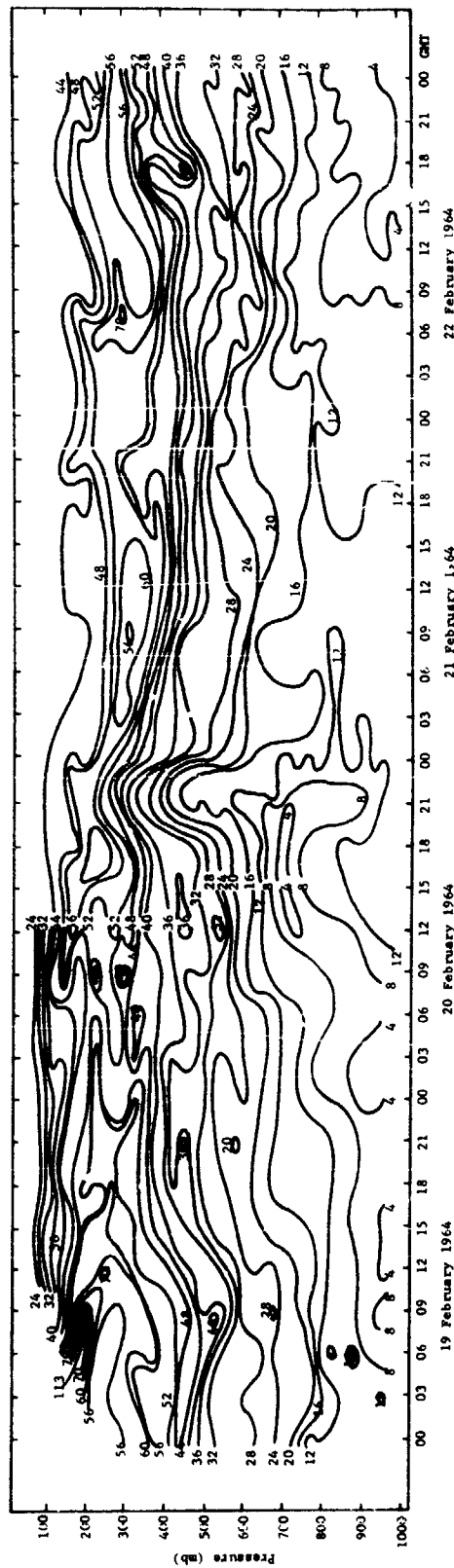
Dewpoint Temperature ($^{\circ}$ C) for Corpus Christi, Texas, Station Number 55002



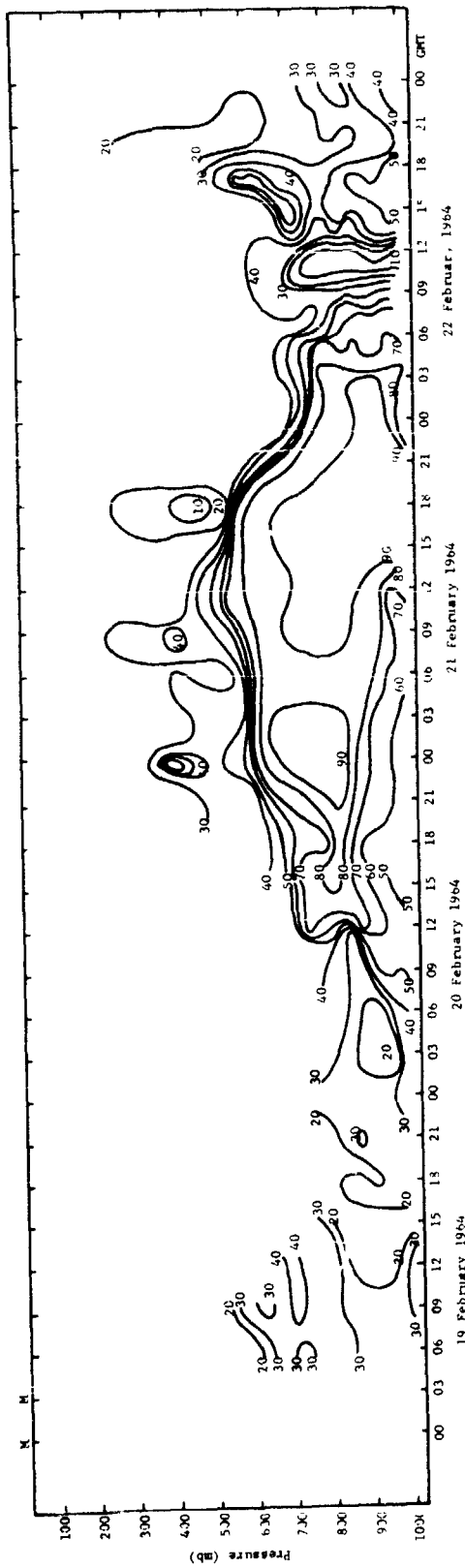
NOTE: Interval not constant



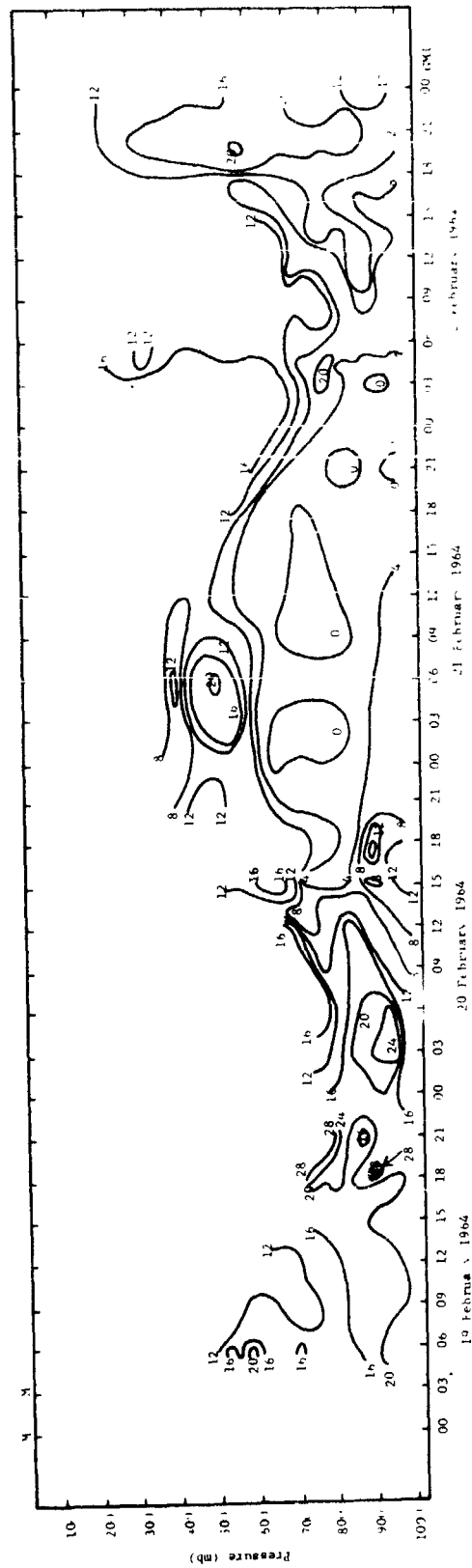
Meridional Wind Component (m/sec) for Corpus Christi, Texas, Station Number 55002



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

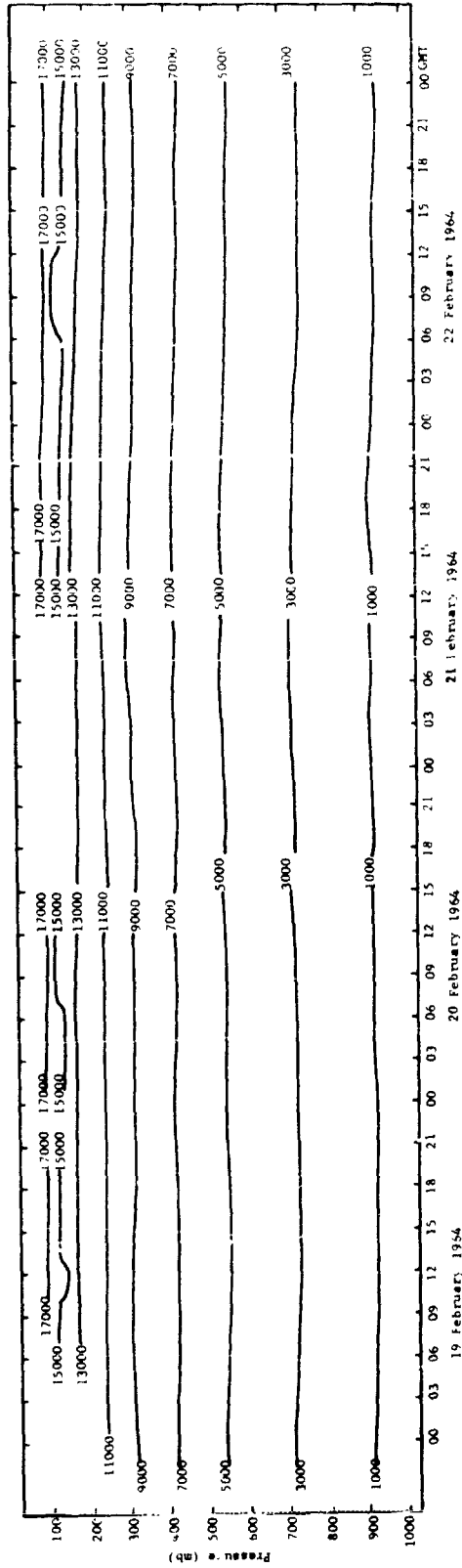


Relative Humidity (%) for Corpus Christi, Texas, Station Number 55002



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

CAT.-20



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