

# THE BEAUTIES OF MATHEMATICS III

1983-84 Planning Calendar featuring Colorgraphic Art

Center for Color Graphics, Florida State University

## COLOR GRAPHICS COMMUNICATE BETTER—IN ART, SCIENCE AND BUSINESS

Since the inception of these calendars two years ago, Intecolor Corporation and its parent company, Intelligent Systems Corp., have been enthusiastic supporters. Naturally, part of our interest comes from the fact that all the artwork was created on Intecolor's color graphics computer equipment.

However, our commercial interest is only part of the story. The visual challenges and compelling attractions of the abstract art form are important factors, as is the fact that these striking images were generated via carefully calculated mathematical equations. Actually, the heart of the matter is that we are deeply involved with this project because of one person:

Dr. E. P. Miles, Jr., Director of the Center for Color Graphics at Florida State University.

A visionary in the use of color to create wider interest in mathematics, Dr. Miles wrote, "Functional Design or Colorful Mathematics" in 1955, when he struck upon the idea of using mathematical formulae to create color abstract art to dramatize the inner workings of mathematics. At that time, he had his students use graph paper and color pens to create the resultant abstracts. That was two years before he saw his first computer.

Some 22 years later, in 1977, Dr. Miles got the opportunity to demonstrate his 1955 work interactively using an Intecolor 8001 color graphics terminal. Since that time, he has been a world leader in promoting the use of color graphics computers in many fields of business where art plays a central role—

including advertising, interior design, textiles, architecture and packaging.

Intecolor salutes Dr. Miles' extraordinary talents and his dedication to the marriage of color, mathematics and the computer. Our interest in color and graphics began when the company was founded in 1973. The Intecolor 8001 was the first color terminal to incorporate the then new microprocessor. We were the first firm to produce a desktop color graphics computer using an advanced programming language, and the first to produce a color-enhanced word processing system.

Intecolor was the first firm to manufacture and ship 30,000 color terminals and now we have the largest installed base in many industrial applications. We built our reputation in the demanding process control and scientific markets, and have since transferred that expertise into the office environment.

Today, we manufacture a complete line of color graphics terminals, from low resolution to very high resolution units, color graphics desktop computers, and multi-processor, multi-user computer systems. We produce units for use in management information systems, distributed data processing, presentation graphics, computer-aided design, energy and facilities management, plant automation and complete business systems.

We invite you to contact us for additional information on color graphics computer equipment at Intecolor Corporation, Intecolor Drive, 225 Technology Park, Norcross, GA 30092. Telephone 404/449-5961.

## BEAUTIES OF MATHEMATICS III CALENDAR Sept. 1983–Dec. 1984

The mathematical "Beauties of the Month" were created by Dr. E. P. Miles, Jr. and his students at Florida State University from 1977 to 1983 as displays on Intecolor 8000 screens from Intelligent Systems Corporation of Norcross, GA. The color separations were done in the FSU Center for Color Graphics on an Intecolor 8064R computer using the Digital FACSIMILES (Fast Additive Color Separation Internegatives—Miles) process covered by U.S. patent application #291,479, August 10, 1981 for which a Notice of Allowance was issued March 25, 1983. The 1982 and 1983 calendar separations used 35mm photographs of internegative images from the computer screen. However, production of this calendar bypassed photography completely by printing separation images directly on a Printacolor GP1024 under Intecolor control. Use of Miles's digital separation process on the 3 calendars cut production costs approximately \$3,000 each year, a percentage saving in the 25% to 40% range compared with laser scan or direct processes.

We welcome Printacolor Corporation of Norcross, GA as a new calendar cosponsor with Intecolor, the Center for Color Graphics of Florida State University, and Miles Color Art. The calendar is being published again as a nonprofit educational project with Miles's artwork and separations donated and startup print costs shared by Intecolor and Printacolor. Thousands of these calendars printed at marginal overrun costs have been donated for educational purposes or sold by nonprofit groups to help fund educational, cultural, or humanitarian projects.

Most "Beauties of Mathematics" displays are color block graphs of mathematical functions generated by computer implementation of an algorithm described by Miles's 1955 paper "Functional Design or Colorful Mathematics". It was the intent of that paper to use hand-created color patterns to attract many students at the high-school entry level with mathematical abilities who saw no relevance of further study in mathematics to their likely career choices. Then, as at the present time, a large number of able students were closing doorways to future scientific careers or technical skills useful for non-scientific careers by declining to study mathematics prerequisite for studies in such areas.

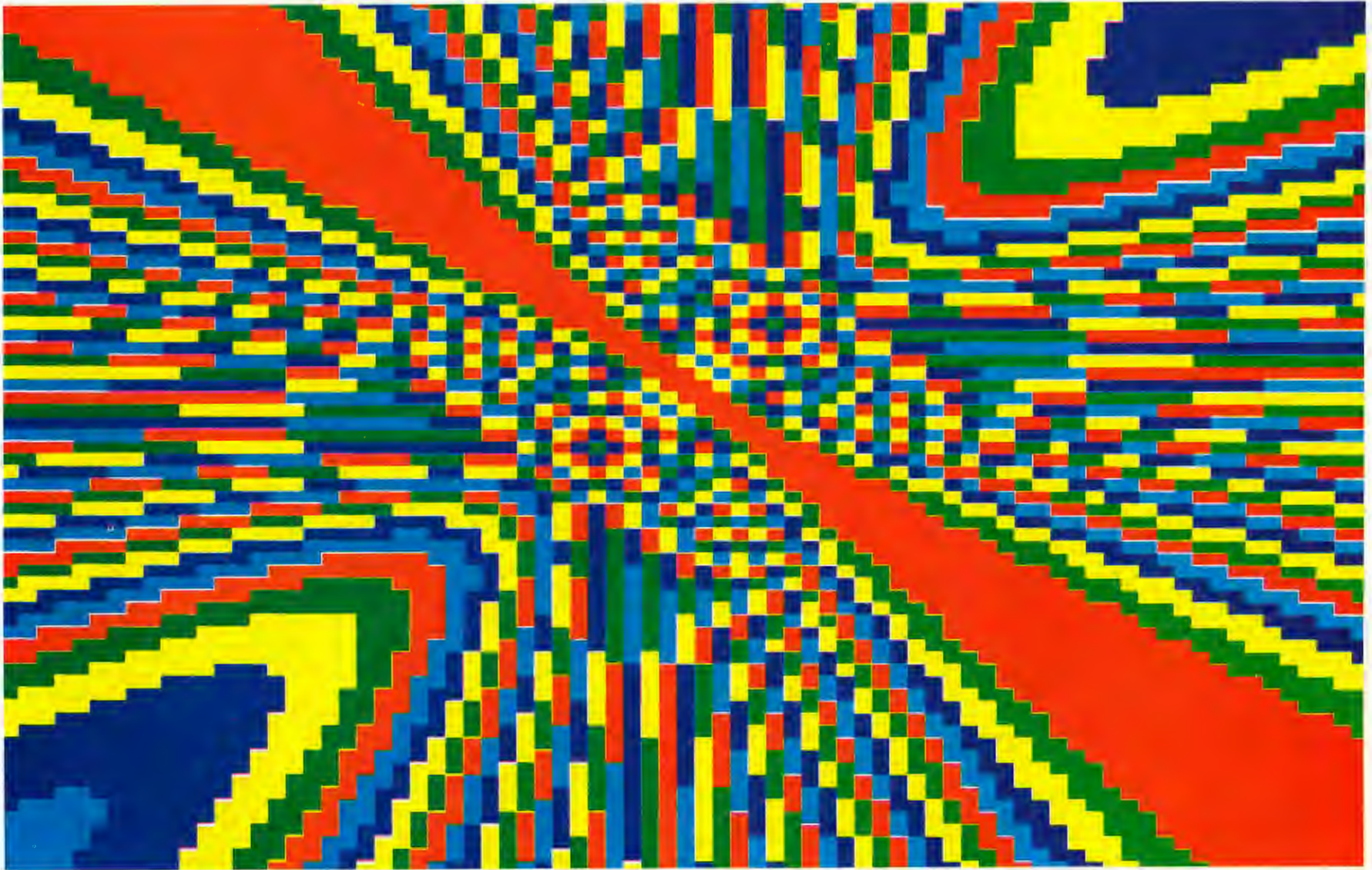
Current widespread use of color graphics makes it important for students in such non-science areas as art, advertising, interior design, architecture, business, communications, social science, etc., to continue studies of mathematics and computer science to levels which have become useful attributes to the practice of those fields. It is hoped that preparation of this calendar and its wide distribution may help acquaint the general public with both the beauty and utility of mathematics to help them convince students in their formative years that mathematics has much to offer people pursuing careers in both technical and non-technical areas.

The color block graphs of functions  $z = f(x,y)$  are produced in a rectangular grid in which each block is assigned integer coordinates,  $x$  and  $y$ , over specified ranges. The function  $z$  is computed at each point  $(x,y)$  and its value converted into one of the integers  $0, 1, \dots, n-1$ , if  $n$  colors are available for assignment. For each block the color is assigned which is associated with its value number by the input to the computer program generating the pattern.

The formation of the Center for Color Graphics in 1981 was made possible by the generosity of Charles A. Muench and Intelligent Systems Corporation, expressed in equipment gifts and software development grants. Since 1981 Muench's personal donations of state-of-the-art Intecolor and Printacolor equipment and approval of software grants and of support by the Mary Jeannette Muench Charitable Lead Trust have kept the Center alive in a period of extreme budgetary crisis at Florida State University.

All those who helped create the library of displays used in Miles's ACM lecture tours, his other professional presentations, his calendars, journal and book cover art, and who developed the Graphic Center's artist and instructional support systems were FSU students. Major contributions were made by: Peter Jensen, Scott Rimbey, Laura Rimbey, William Jasiniecki, Eric Chamberlain, Chelle Field, Ray Curci, Doug Martin, Mark Schendel, and Michael Sumner. Vicki Miles deserves great credit for her help in sorting, evaluating, labeling for copyright, screening for use, suggesting suitable color choices, etc. for the hundreds of pictures, slides, screen displays and Printacolor graphics which have followed her husband home and on their travels. Also to Ann Petty for typing of manuscript and Douglas Eason for the design.

Many of our graphs are in low resolution half character block mode using eight colors in a maximal  $96 \times 80$  half character (24 Pixel) grid. The cover uses the special Miles pointillism character mode providing twenty-seven colors in a maximal  $48 \times 80$  character grid. Separations performed for the "Gold in Them Thar Hills" cover require the equivalent of halftone photography for their generation. The April, 1984 heat data uses blocks of superpixels on the Intecolor 8064R display from the color wheel of "pure" colors. Separation images for this data display were then created in superpixel blocks and printed on the Printacolor GP1024. Of final interest, the graph "Fire and Ice Revisited" for August, 1984 is a display of maximal high resolution range on our present Intecolor 8064R. The generating function was evaluated at each of the  $480 \times 384$  pixel positions of the display device with the eight colors determined independently at each position on the screen. Because the GP1024 has 1024 jet print positions per line, the color separation images were created in  $2 \times 2$  print blocks across, using 960 of the available print spaces per line.



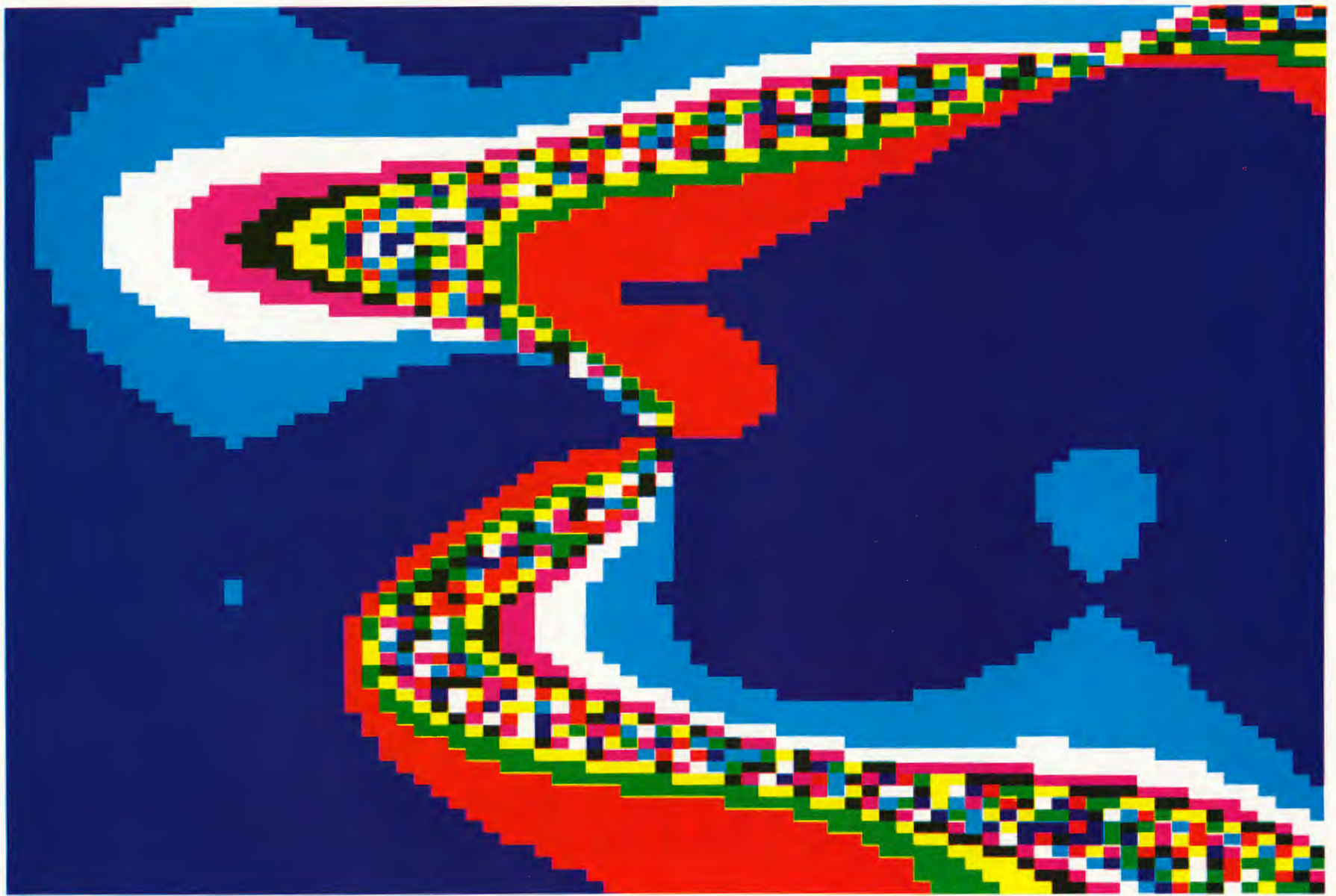
### COLLISION COURSE

Miles Color Art A-21

September, 1983: This September scene, a 5-year veteran from the ACM lecture tour slide tray, has become more timely with presidential discussion of laser beam attacks on approaching missiles. The graph of the non-negative

definite and bounded generating function,  $(25(x + y)^2)/(x^2 + y^2 + 45.11) \bmod 5$ , seems to depict two missiles near collision where the death rays are already meeting.





### GHOUL/GOBLIN GET TOGETHER

Miles Color Art B-76

October, 1983: These weird creatures appear as if by magic for Halloween if you evaluate the function  $(y + x\cos(x/8))/(x + y\sin(y/8) + .1)$ , color it as we

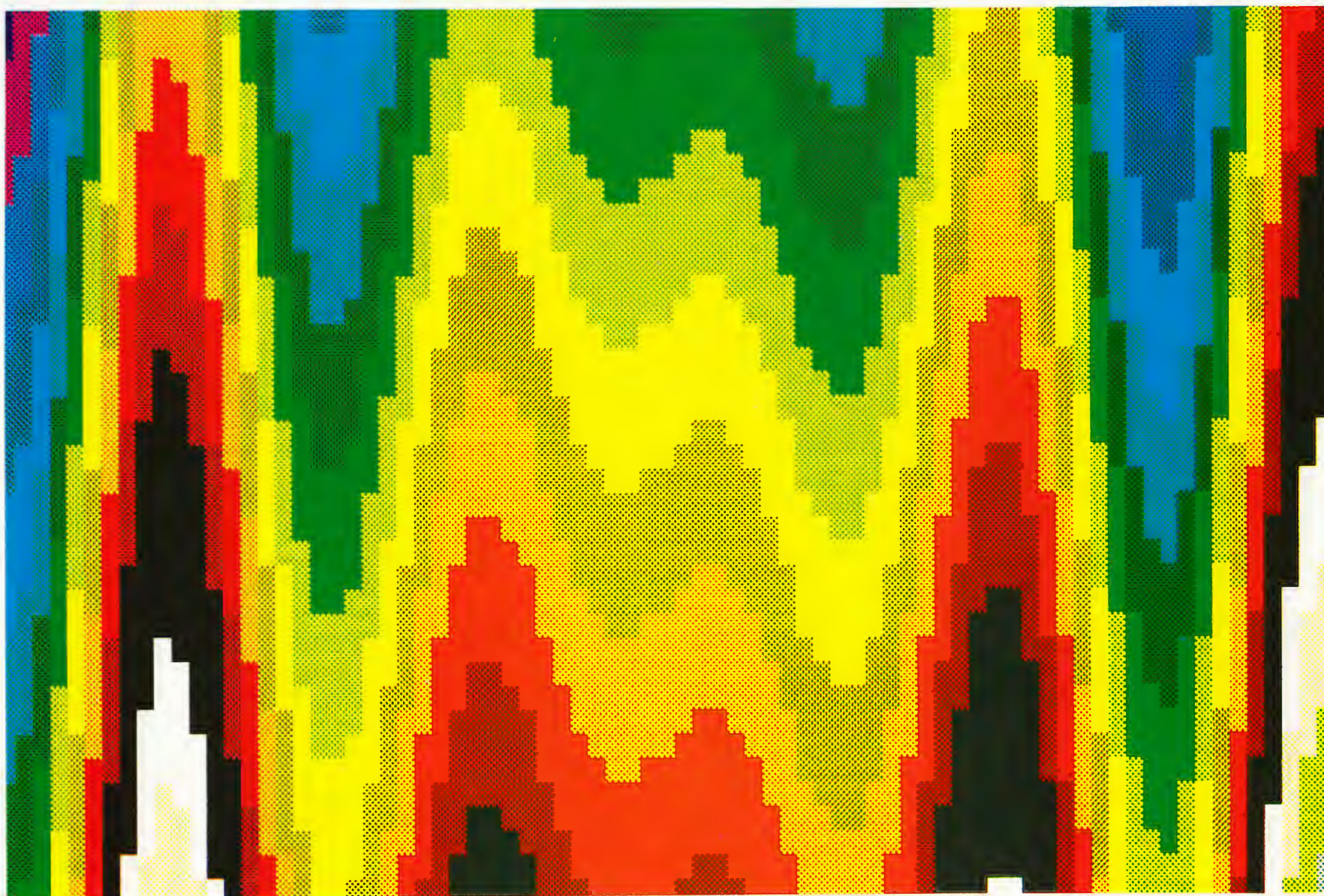
did, 41230576, and give it a 90 degree twist.

# 1983

# OCTOBER

# 1983

| SUNDAY   | MONDAY          | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
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| <table border="1"> <tr><td colspan="7">SEPTEMBER 1983</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td></td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr> </table> | SEPTEMBER 1983  |         |           |          |        |          |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 |  | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  | <table border="1"> <tr><td colspan="7">NOVEMBER 1983</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td></tr> </table> | NOVEMBER 1983 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |  |  |  |  | 1 |
| SEPTEMBER 1983   |                 |         |           |          |        |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| S  | M               | T       | W         | T        | F      | S        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
|  |                 |         | 1         | 2        | 3      |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 4  | 5               | 6       | 7         | 8        | 9      | 10       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 11   | 12              | 13      | 14        | 15       | 16     | 17       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 18   | 19              | 20      | 21        | 22       | 23     | 24       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 25   | 26              | 27      | 28        | 29       | 30     |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| NOVEMBER 1983  |                 |         |           |          |        |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| S  | M               | T       | W         | T        | F      | S        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
|  |                 |         | 1         | 2        | 3      | 4        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 5  | 6               | 7       | 8         | 9        | 10     | 11       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 12   | 13              | 14      | 15        | 16       | 17     | 18       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 19   | 20              | 21      | 22        | 23       | 24     | 25       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 26   | 27              | 28      | 29        | 30       |        |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 2  | 3               | 4       | 5         | 6        | 7      | 8        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 9  | Columbus Day 10 | 11      | 12        | 13       | 14     | 15       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 16   | 17              | 18      | 19        | 20       | 21     | 22       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 23   | 24              | 25      | 26        | 27       | 28     | 29       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |
| 30   | Halloween 31    |         |           |          |        | October  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |   |



### **GOLD IN THEM THAR HILLS**

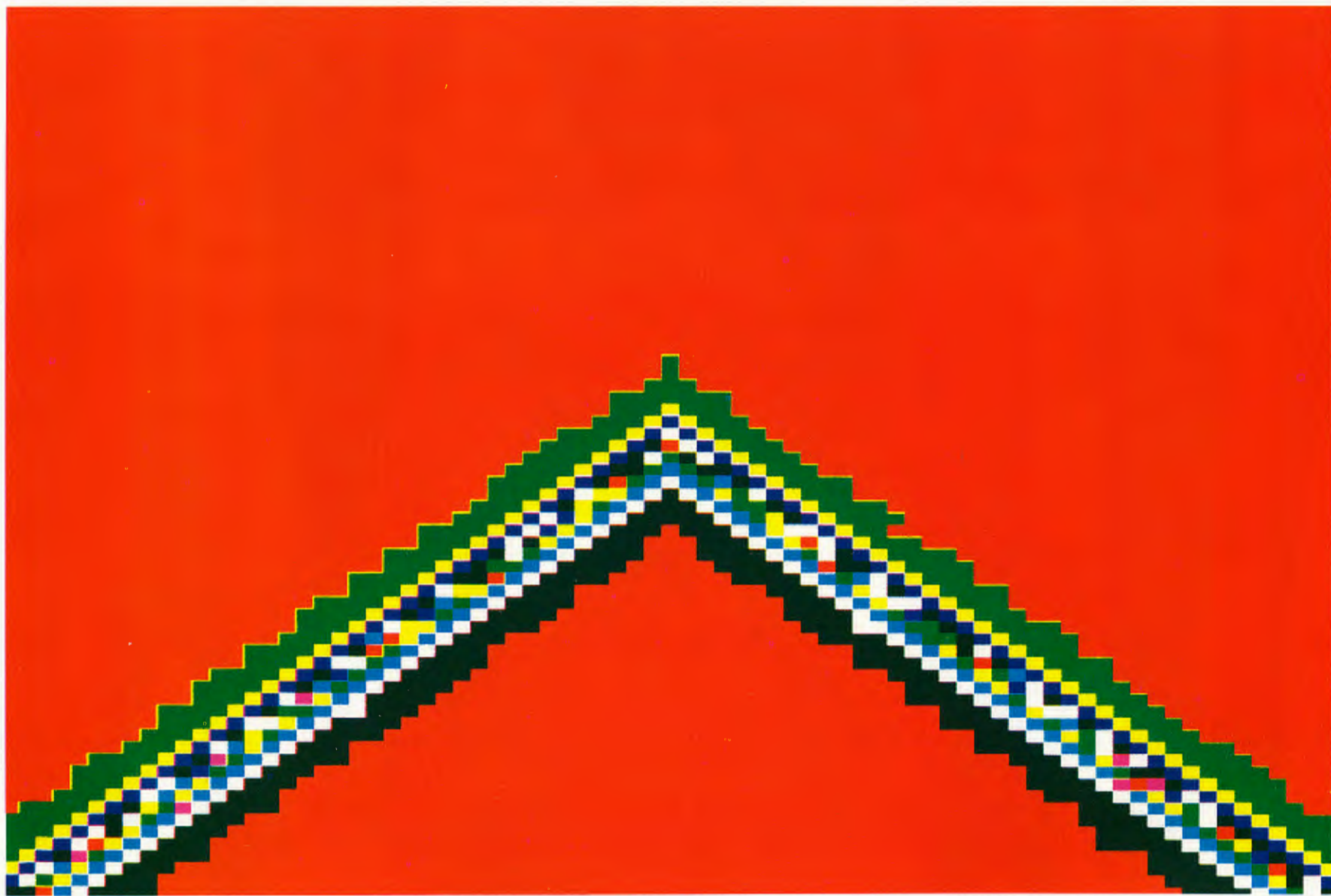
Miles Color Art B-45

November, 1983: These colorful autumn mountains were produced using the 27 color pointillism set. The function determining the numbers to which the colors were assigned is  $(y - x\cos(x/3))/6 + 5$ . These Pointillism Peaks have

become such a family favorite, they were chosen for the calendar cover by AVM. Other popular subtitles are MAJESTIC MONOGRAM MOUNTAINS or CHINA'S ICECONE (Guilin) MOUNTAINS.







### CHRISTMAS ARCH

Miles Color Art A-47

December, 1983: This arch for the Christmas season was created using a function staying between zero and one throughout much of the range and oscillating wildly near the lower halves of the lines  $y=x$  and  $y=-x$  where the

denominator  $(\text{abs}(x) + y + .001)$  is near zero. This is a color block graph of  $(y - 7\sin((x + y^3)/14))/(\text{abs}(x) + y + .001)$ .

# 1983

# DECEMBER

# 1983

| SUNDAY  | MONDAY        | TUESDAY   | WEDNESDAY | THURSDAY  | FRIDAY    | SATURDAY  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
|---|---------------|-----------|-----------|-----------|-----------|-----------|--|---|---|---|---|---|---|---|--|---|---|---|---|---|--|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--------------|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|----------------------|----------|----------|
| <table border="1"> <tr><td colspan="7">NOVEMBER 1983</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td><td></td></tr> </table> | NOVEMBER 1983 |           |           |           |           |           |  | S | M | T | W | T | F | S |  | 1 | 2 | 3 | 4 | 5 |  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |  | <table border="1"> <tr><td colspan="7">JANUARY 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table> | JANUARY 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  |  | Hanukkah<br><b>1</b> | <b>2</b> | <b>3</b> |
| NOVEMBER 1983   |               |           |           |           |           |           |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| S   | M             | T         | W         | T         | F         | S         |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
|   | 1             | 2         | 3         | 4         | 5         |           |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 6   | 7             | 8         | 9         | 10        | 11        | 12        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 13  | 14            | 15        | 16        | 17        | 18        | 19        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 20  | 21            | 22        | 23        | 24        | 25        | 26        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 27  | 28            | 29        | 30        |           |           |           |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| JANUARY 1984  |               |           |           |           |           |           |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| S   | M             | T         | W         | T         | F         | S         |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 1   | 2             | 3         | 4         | 5         | 6         | 7         |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 8   | 9             | 10        | 11        | 12        | 13        | 14        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 15  | 16            | 17        | 18        | 19        | 20        | 21        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 22  | 23            | 24        | 25        | 26        | 27        | 28        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| 29  | 30            | 31        |           |           |           |           |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| <b>4</b>  | <b>5</b>      | <b>6</b>  | <b>7</b>  | <b>8</b>  | <b>9</b>  | <b>10</b> |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| <b>11</b>   | <b>12</b>     | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| <b>18</b>   | <b>19</b>     | <b>20</b> | <b>21</b> | <b>22</b> | <b>23</b> | <b>24</b> |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
| Christmas Day<br><b>25</b>  | <b>26</b>     | <b>27</b> | <b>28</b> | <b>29</b> | <b>30</b> | <b>31</b> |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |
|   |               |           |           |           |           | December  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |                      |          |          |



### ANTI-CITY ACROSS THE BAY

Miles Color Art A-4

January, 1984: Here we can think of the inverted skyscraper in the upper left as representing the year just turned over, while coming in from the lower right we see the upright city representing the new year moving into focus. So it's

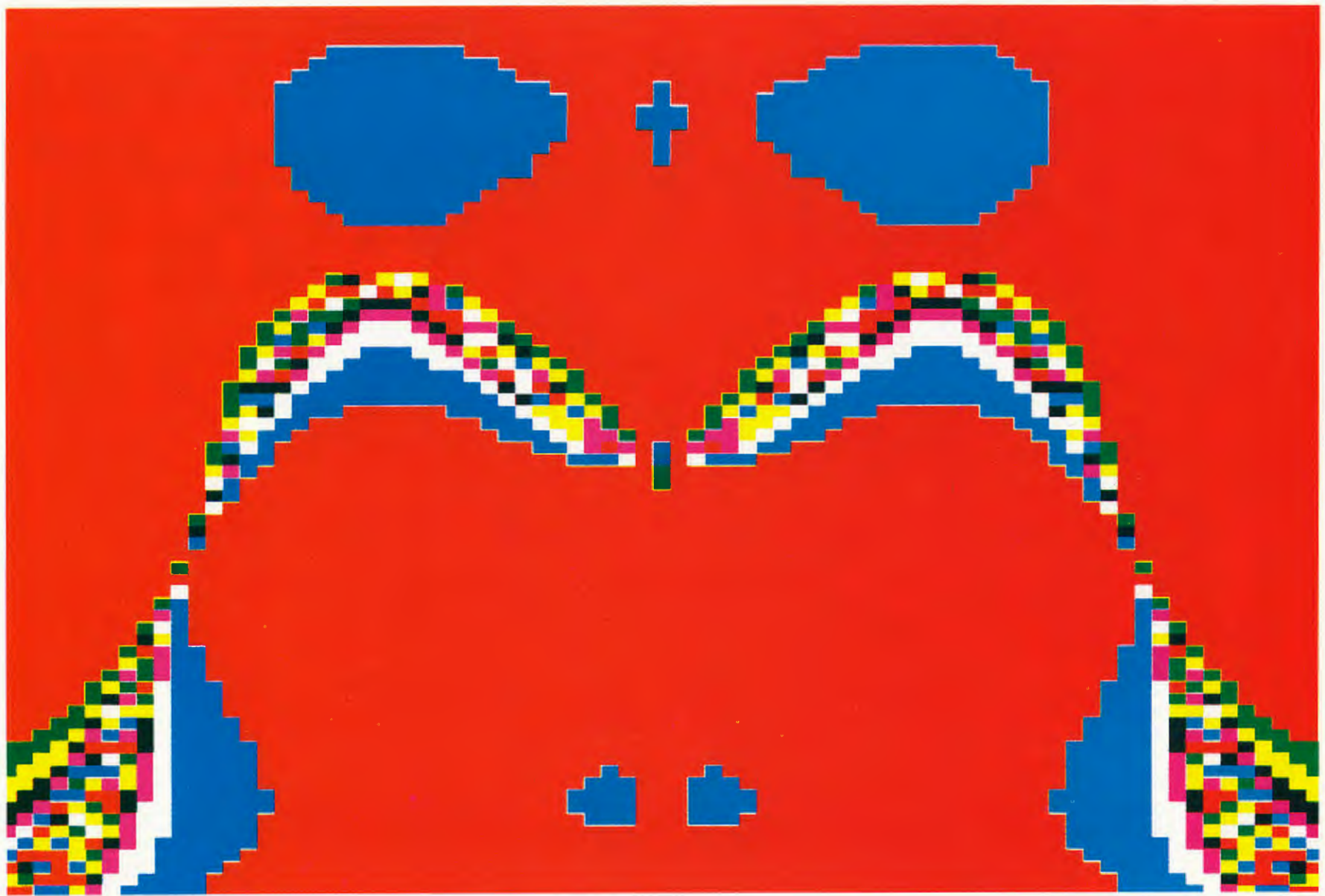
out with the old and in with the new against a background that's cyan blue. The function graphed is  $(x^3 - y^2)\sin(x + y/20)/(1000(x + y + .1))$ .

# 1984

# JANUARY

# 1984

| SUNDAY                  | MONDAY    | TUESDAY   | WEDNESDAY | THURSDAY   | FRIDAY    | SATURDAY  |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
|-------------------------|-----------|-----------|-----------|--|-----------|-----------|---|---|---|---|---|--|--|--|---|---|---|--|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----------------|
| New Year's Day <b>1</b> | <b>2</b>  | <b>3</b>  | <b>4</b>  | <b>5</b>   | <b>6</b>  | <b>7</b>  |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| <b>8</b>                | <b>9</b>  | <b>10</b> | <b>11</b> | <b>12</b>  | <b>13</b> | <b>14</b> |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| <b>15</b>               | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b>  | <b>20</b> | <b>21</b> |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| <b>22</b>               | <b>23</b> | <b>24</b> | <b>25</b> | <b>26</b>  | <b>27</b> | <b>28</b> |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| <b>29</b>               | <b>30</b> | <b>31</b> |           | <table border="1"> <caption>DECEMBER 1983</caption> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> </tr> <tr> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> </tr> </tbody> </table> | S         | M         | T | W | T | F | S |  |  |  | 1 | 2 | 3 |  | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | <table border="1"> <caption>FEBRUARY 1984</caption> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> </tr> <tr> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> </tr> <tr> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |  |  |  | <b>January</b> |
| S                       | M         | T         | W         | T  | F         | S         |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
|                         |           |           | 1         | 2  | 3         |           |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| 4                       | 5         | 6         | 7         | 8  | 9         | 10        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| 11                      | 12        | 13        | 14        | 15   | 16        | 17        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| 18                      | 19        | 20        | 21        | 22   | 23        | 24        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| 25                      | 26        | 27        | 28        | 29   | 30        | 31        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| S                       | M         | T         | W         | T  | F         | S         |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
|                         |           |           | 1         | 2  | 3         | 4         |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| 5                       | 6         | 7         | 8         | 9  | 10        | 11        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| 12                      | 13        | 14        | 15        | 16   | 17        | 18        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| 19                      | 20        | 21        | 22        | 23   | 24        | 25        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |
| 26                      | 27        | 28        | 29        |  |           |           |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |                |



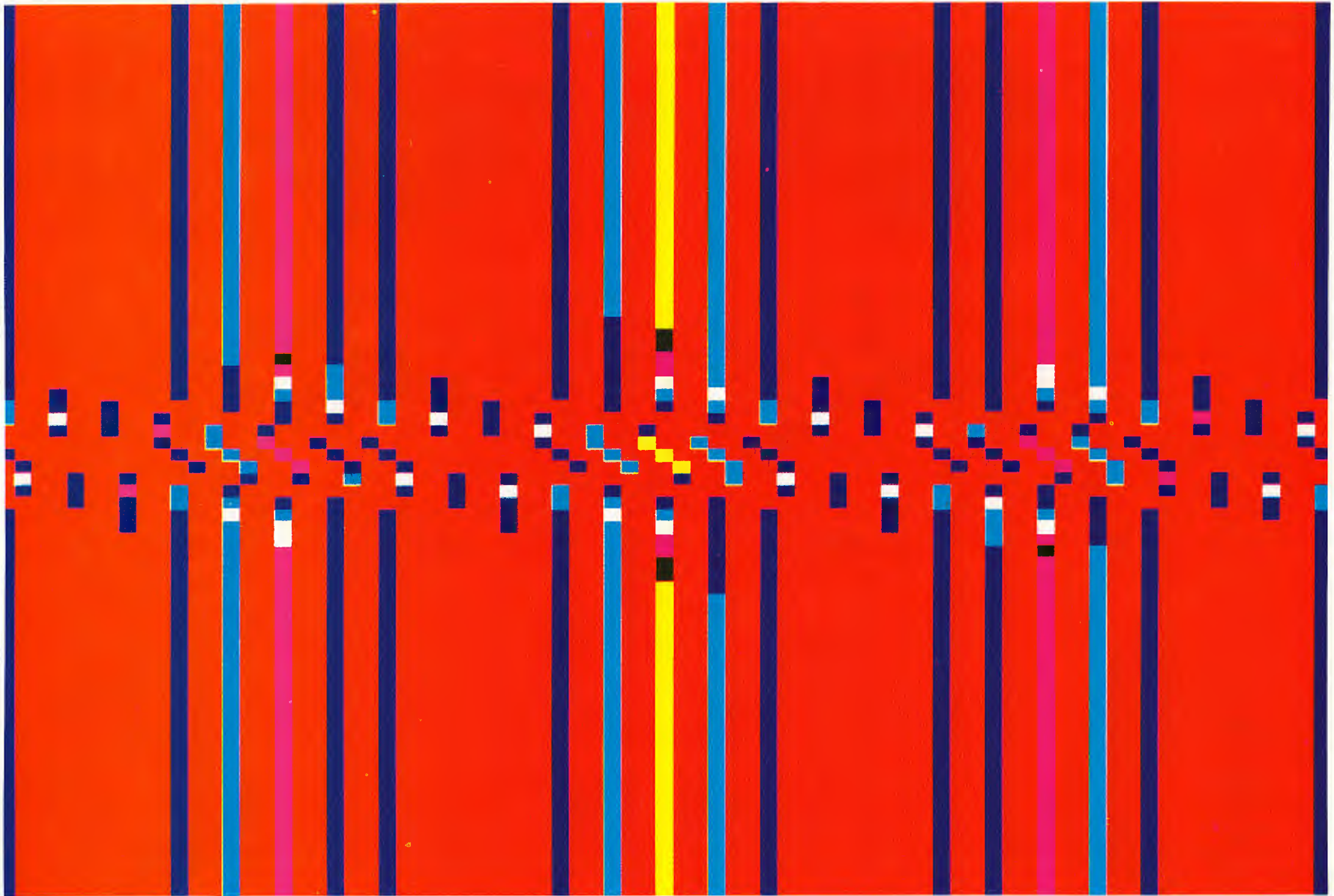
### LOVEBIRDS LICKING/RORSCHACH RIDDLE

Miles Color Art B-61

February, 1984: For February we have chosen this comic Valentine cartoon riddle: Do you see lovebirds licking or chameleons kissing, and if so, what are their thoughts or words for the balloons above? Or do you see the upper

torso of a sunburned red lady on red sand, so that only her eyeshades and bikini with matching accessories are visible? The generating function is  $(\ln(\text{abs}(x^2 + .1)) + y\cos(y/9))/(y - x\sin(x/8) + .1)$ .





### SHATTERED STRIPES

Miles Color Art B-62

March, 1984: This unusual pattern features parallel, vertical stripes which are disrupted near the center, when  $y$  is near  $\pm 1$ , to give us a March out of

step. The bright colors and merry motions result from a block graph of  $\ln(7\text{abs}(\sin(x + y\exp(1 - \text{abs}(y)))) + .01)$ .

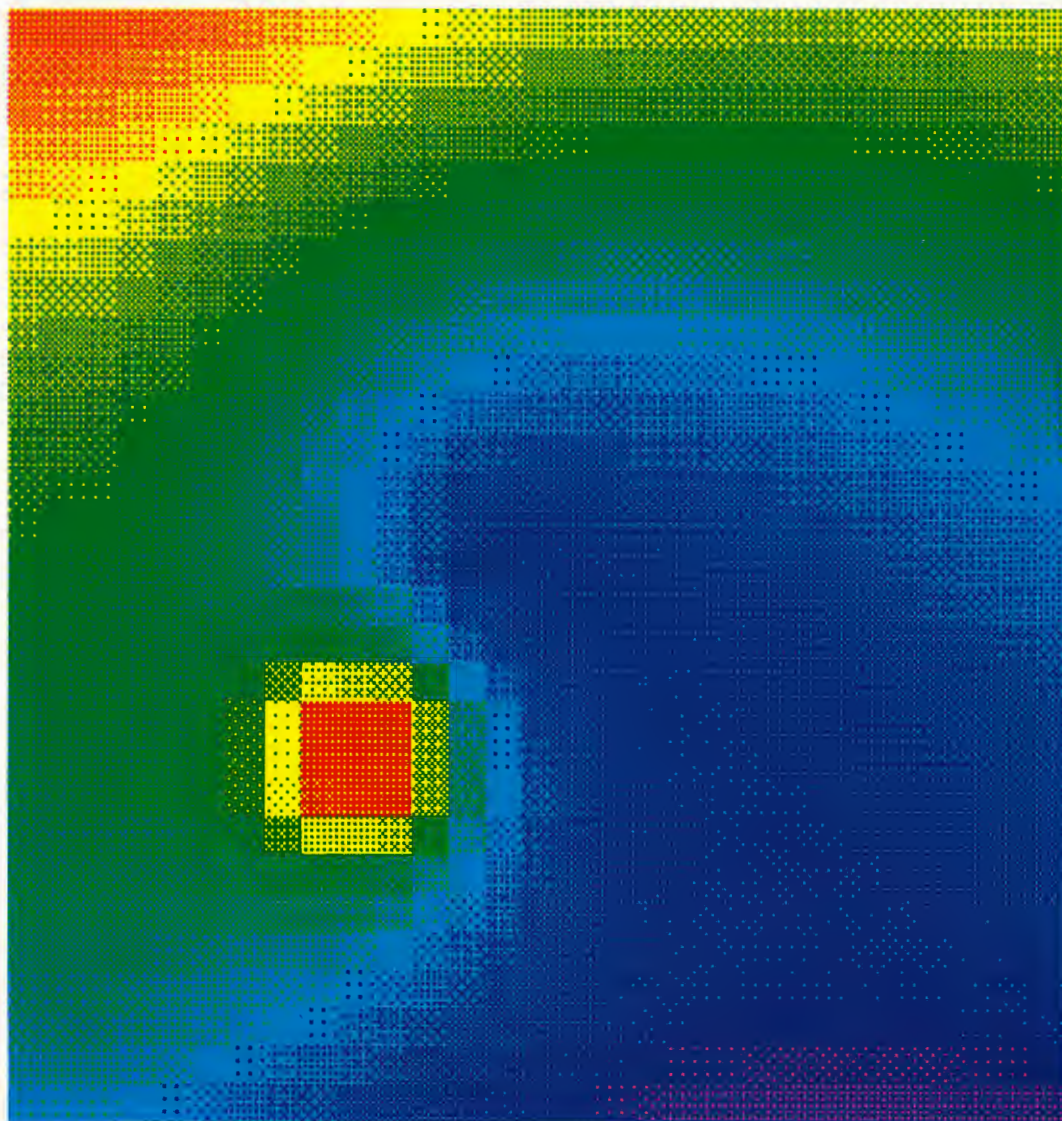


# 1984

# MARCH

# 1984

| SUNDAY  | MONDAY        | TUESDAY | WEDNESDAY       | THURSDAY | FRIDAY | SATURDAY             |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
|---|---------------|---------|-----------------|----------|--------|----------------------|--|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|------------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|---|---|---|
| <table border="1"> <tr><td colspan="7">FEBRUARY 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td></td><td></td><td></td></tr> </table> | FEBRUARY 1984 |         |                 |          |        |                      |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |  |  |  | <table border="1"> <tr><td colspan="7">APRIL 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td></tr> </table> | APRIL 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |  |  | 1 | 2 | 3 |
| FEBRUARY 1984   |               |         |                 |          |        |                      |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| S   | M             | T       | W               | T        | F      | S                    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
|   |               |         | 1               | 2        | 3      | 4                    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 5   | 6             | 7       | 8               | 9        | 10     | 11                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 12  | 13            | 14      | 15              | 16       | 17     | 18                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 19  | 20            | 21      | 22              | 23       | 24     | 25                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 26  | 27            | 28      | 29              |          |        |                      |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| APRIL 1984  |               |         |                 |          |        |                      |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| S   | M             | T       | W               | T        | F      | S                    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
|   |               |         | 1               | 2        | 3      | 4                    |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 5   | 6             | 7       | 8               | 9        | 10     | 11                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 12  | 13            | 14      | 15              | 16       | 17     | 18                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 19  | 20            | 21      | 22              | 23       | 24     | 25                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 26  | 27            | 28      | 29              | 30       |        |                      |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 4   | 5             | 6       | Ash Wednesday 7 | 8        | 9      | 10                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 11  | 12            | 13      | 14              | 15       | 16     | St. Patrick's Day 17 |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 18  | 19            | 20      | 21              | 22       | 23     | 24                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
| 25  | 26            | 27      | 28              | 29       | 30     | 31                   |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |
|   |               |         |                 |          |        | March                |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |            |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |   |   |



### COORDINATED COLORS—COOL TO CALORIFIC

Miles Color Art E-0

April, 1984: This April graphic, with all its beauty and spring colors, displays temperature data from an IEEE COMPUTER GRAPHICS & APPLICATIONS 1981 article originally using only black and white graphics. Our May 1982 version in the same Journal uses pure colors in the Intelligent Systems

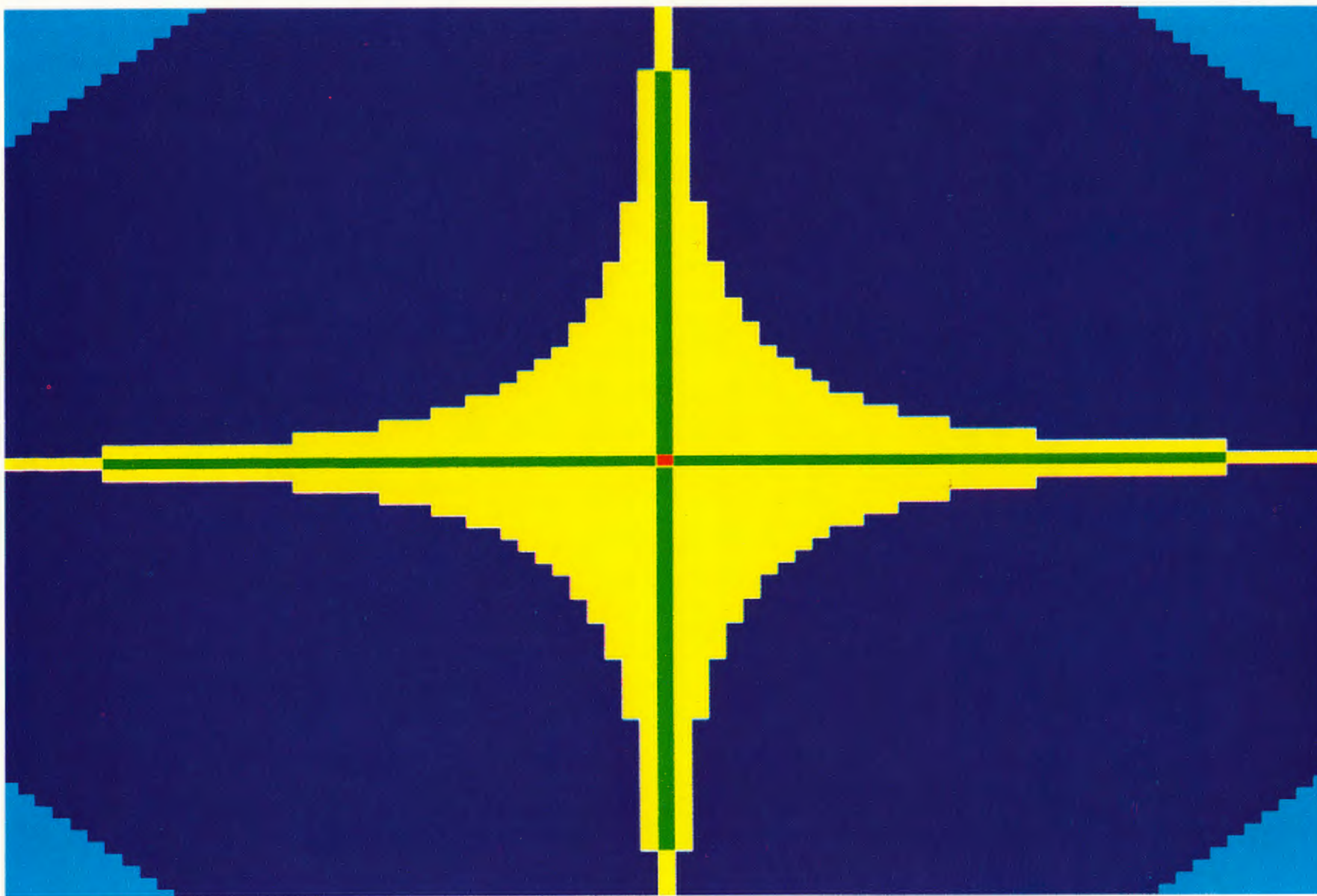
R-series color wheel which increase in warmth from cold blues to warm reds through intermediate cyans, greens, yellows and oranges, as the temperature rises in the scale from 2.3 to 17.

# 1984

# APRIL

# 1984

| SUNDAY           | MONDAY | TUESDAY     | WEDNESDAY | THURSDAY  | FRIDAY         | SATURDAY |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
|------------------|--------|-------------|-----------|---|----------------|----------|---|---|---|---|---|--|--|--|---|---|---|--|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|-------|
| 1                | 2      | 3           | 4         | 5   | 6              | 7        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 8                | 9      | 10          | 11        | 12  | 13             | 14       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 15               | 16     | Passover 17 | 18        | 19  | Good Friday 20 | 21       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| Easter Sunday 22 | 23     | 24          | 25        | 26  | 27             | 28       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 29               | 30     |             |           | <table border="1"> <caption>MARCH 1984</caption> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> </tr> <tr> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> </tr> </tbody> </table> | S              | M        | T | W | T | F | S |  |  |  | 1 | 2 | 3 |  | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | <table border="1"> <caption>MAY 1984</caption> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> </tr> <tr> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> </tr> <tr> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> </tr> <tr> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> <td></td> <td></td> </tr> </tbody> </table> | S | M | T | W | T | F | S |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  | April |
| S                | M      | T           | W         | T   | F              | S        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
|                  |        |             | 1         | 2   | 3              |          |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 4                | 5      | 6           | 7         | 8   | 9              | 10       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 11               | 12     | 13          | 14        | 15  | 16             | 17       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 18               | 19     | 20          | 21        | 22  | 23             | 24       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 25               | 26     | 27          | 28        | 29  | 30             | 31       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| S                | M      | T           | W         | T   | F              | S        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
|                  |        | 1           | 2         | 3   | 4              | 5        |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 6                | 7      | 8           | 9         | 10  | 11             | 12       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 13               | 14     | 15          | 16        | 17  | 18             | 19       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 20               | 21     | 22          | 23        | 24  | 25             | 26       |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |
| 27               | 28     | 29          | 30        | 31  |                |          |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |       |



**GOLDEN GATE TO BLUE HEAVEN**

Miles Color Art A-27

May, 1984: May is a month of heavenly weather. The symmetry and slow growth of the function  $(\text{abs}(x^{(1/5)} + \text{abs}(y^{(1/5)})) \text{ Mod } 5)$  provides a startling

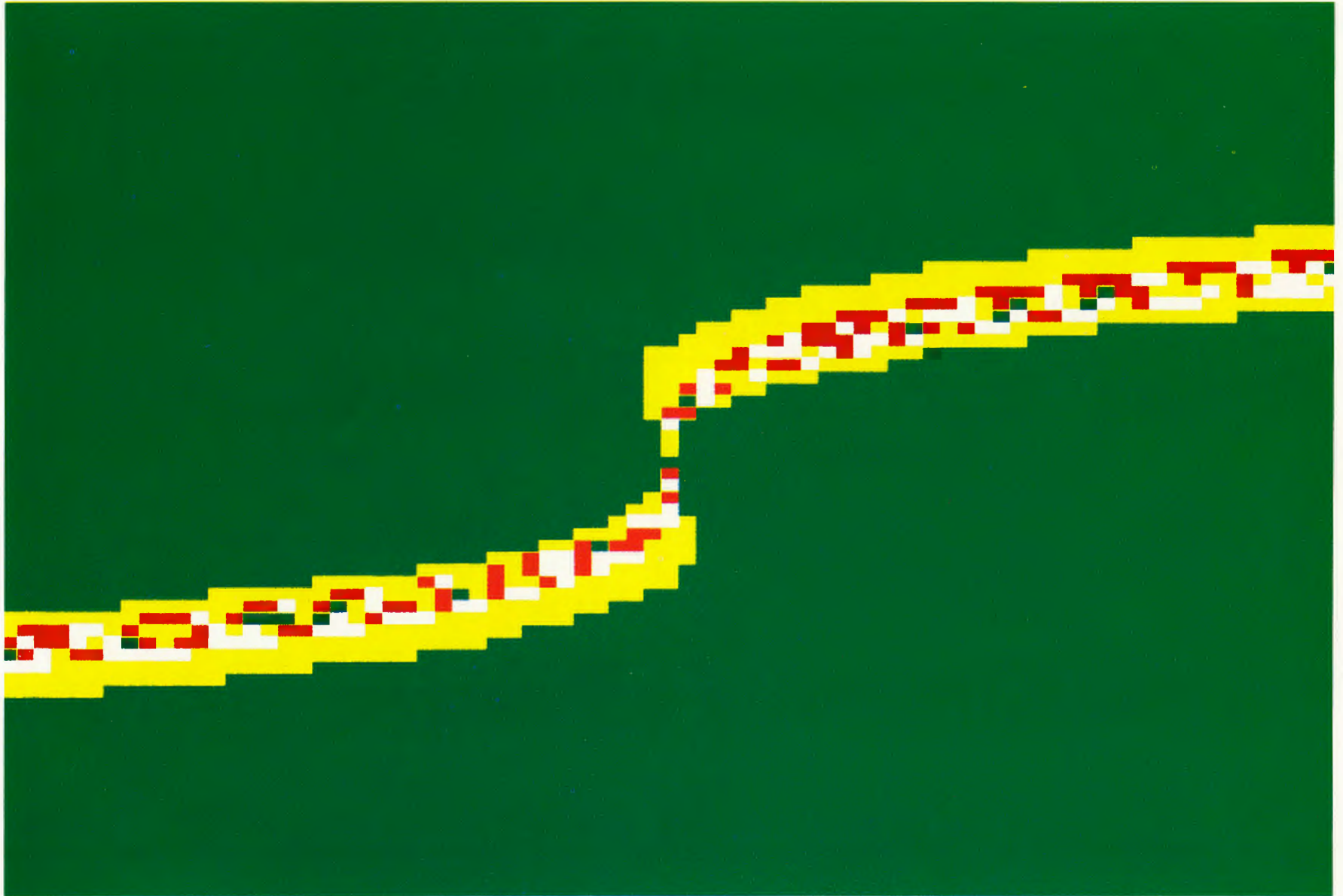
complementary blue framing for the golden gate to heaven displayed here.

# 1984

# MAY

# 1984

| SUNDAY   | MONDAY          | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
|--|-----------------|---------|-----------|----------|--------|----------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|---|-----------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|---|---|--|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|
| <table border="1"> <tr><td colspan="7">APRIL 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td></td><td></td><td></td><td></td><td></td></tr> </table> | APRIL 1984      |         |           |          |        |          |  | S | M | T | W | T | F | S | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |  |  |  | <table border="1"> <tr><td colspan="7">JUNE 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td></td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> </table> | JUNE 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  |  | 1 | 2 |  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 1 | 2 | 3 | 4 | 5 |
| APRIL 1984   |                 |         |           |          |        |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| S  | M               | T       | W         | T        | F      | S        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 1  | 2               | 3       | 4         | 5        | 6      | 7        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 8  | 9               | 10      | 11        | 12       | 13     | 14       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 15   | 16              | 17      | 18        | 19       | 20     | 21       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 22   | 23              | 24      | 25        | 26       | 27     | 28       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 29   | 30              |         |           |          |        |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| JUNE 1984  |                 |         |           |          |        |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| S  | M               | T       | W         | T        | F      | S        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
|  |                 |         |           | 1        | 2      |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 3  | 4               | 5       | 6         | 7        | 8      | 9        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 10   | 11              | 12      | 13        | 14       | 15     | 16       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 17   | 18              | 19      | 20        | 21       | 22     | 23       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 24   | 25              | 26      | 27        | 28       | 29     | 30       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 6  | 7               | 8       | 9         | 10       | 11     | 12       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| Mother's Day 13  | 14              | 15      | 16        | 17       | 18     | 19       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 20   | 21              | 22      | 23        | 24       | 25     | 26       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
| 27   | Memorial Day 28 | 29      | 30        | 31       |        |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |
|  |                 |         |           |          |        | May      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |   |   |   |



### SERPENTINE SCREEN ADORNS GREYNA GREEN

Miles Color Art A-6, (revised)

June, 1984: June is ideal for art upon the green, as we see in this al fresco scene. Our generating function,  $10(y^2 - y\sin(x/6 + xy/30))/(100x - y^3 \times .3)$ ,

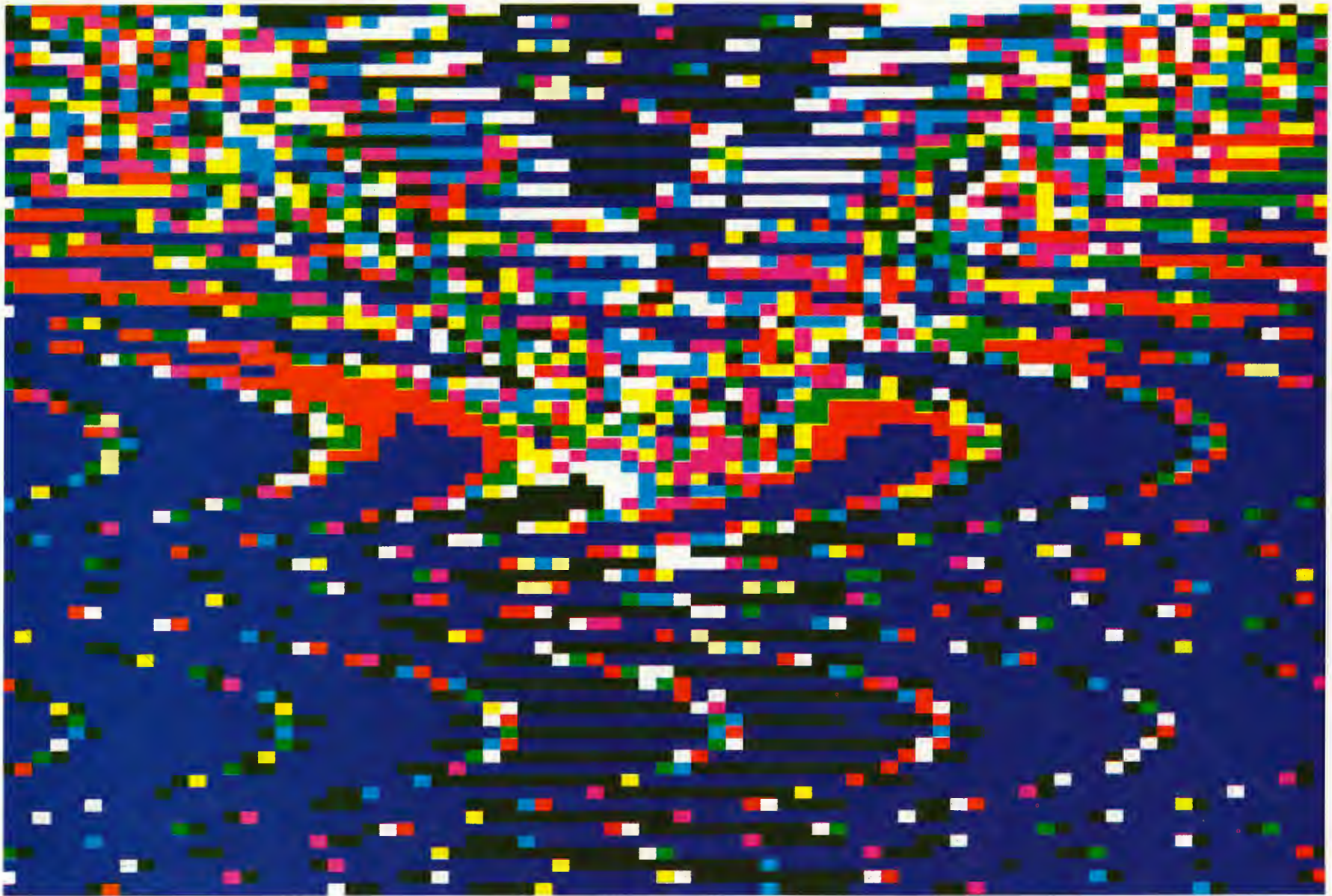
is small (green) except near the zero of its cubic denominator where the lazy S multicolor screen appears.

# 1984

# JUNE

# 1984

| SUNDAY   | MONDAY   | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
|--|----------|---------|-----------|----------|--------|----------|---|---|---|---|---|---|---|---|--|---|---|---|---|---|--|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|-----------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|---|---|
| <table border="1"> <tr><td colspan="7">MAY 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td></td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td></tr> </table> | MAY 1984 |         |           |          |        |          |   | S | M | T | W | T | F | S |  | 1 | 2 | 3 | 4 | 5 |  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  | <table border="1"> <tr><td colspan="7">JULY 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table> | JULY 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  |  |  | 1 | 2 |
| MAY 1984   |          |         |           |          |        |          |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| S  | M        | T       | W         | T        | F      | S        |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
|  | 1        | 2       | 3         | 4        | 5      |          |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 6  | 7        | 8       | 9         | 10       | 11     | 12       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 13   | 14       | 15      | 16        | 17       | 18     | 19       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 20   | 21       | 22      | 23        | 24       | 25     | 26       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 27   | 28       | 29      | 30        | 31       |        |          |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| JULY 1984  |          |         |           |          |        |          |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| S  | M        | T       | W         | T        | F      | S        |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
|  | 1        | 2       | 3         | 4        | 5      | 6        | 7 |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 8  | 9        | 10      | 11        | 12       | 13     | 14       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 15   | 16       | 17      | 18        | 19       | 20     | 21       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 22   | 23       | 24      | 25        | 26       | 27     | 28       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 29   | 30       | 31      |           |          |        |          |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 3  | 4        | 5       | 6         | 7        | 8      | 9        |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 10   | 11       | 12      | 13        | 14       | 15     | 16       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| Father's Day 17  | 18       | 19      | 20        | 21       | 22     | 23       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
| 24   | 25       | 26      | 27        | 28       | 29     | 30       |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |
|  |          |         |           |          |        | June     |   |   |   |   |   |   |   |   |  |   |   |   |   |   |  |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |           |  |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |



### TECHNICOLOR TORNADO

Miles Color Art A-34

July, 1984: These turbulent, tornado-like waves of July color were produced by the generating function  $(y - 10/(\cos(x/4 + y^2/15)))/(\text{abs}(x) - y + .1)$ . The argument of the cosine function is parabolic. Near the zeros of that de-

ominator function, the parallel parabolic color units appear. The rapid color changes on the upper halves of the lines  $y=x$  and  $y=-x$  occur because the denominator is also near zero on those two lines.

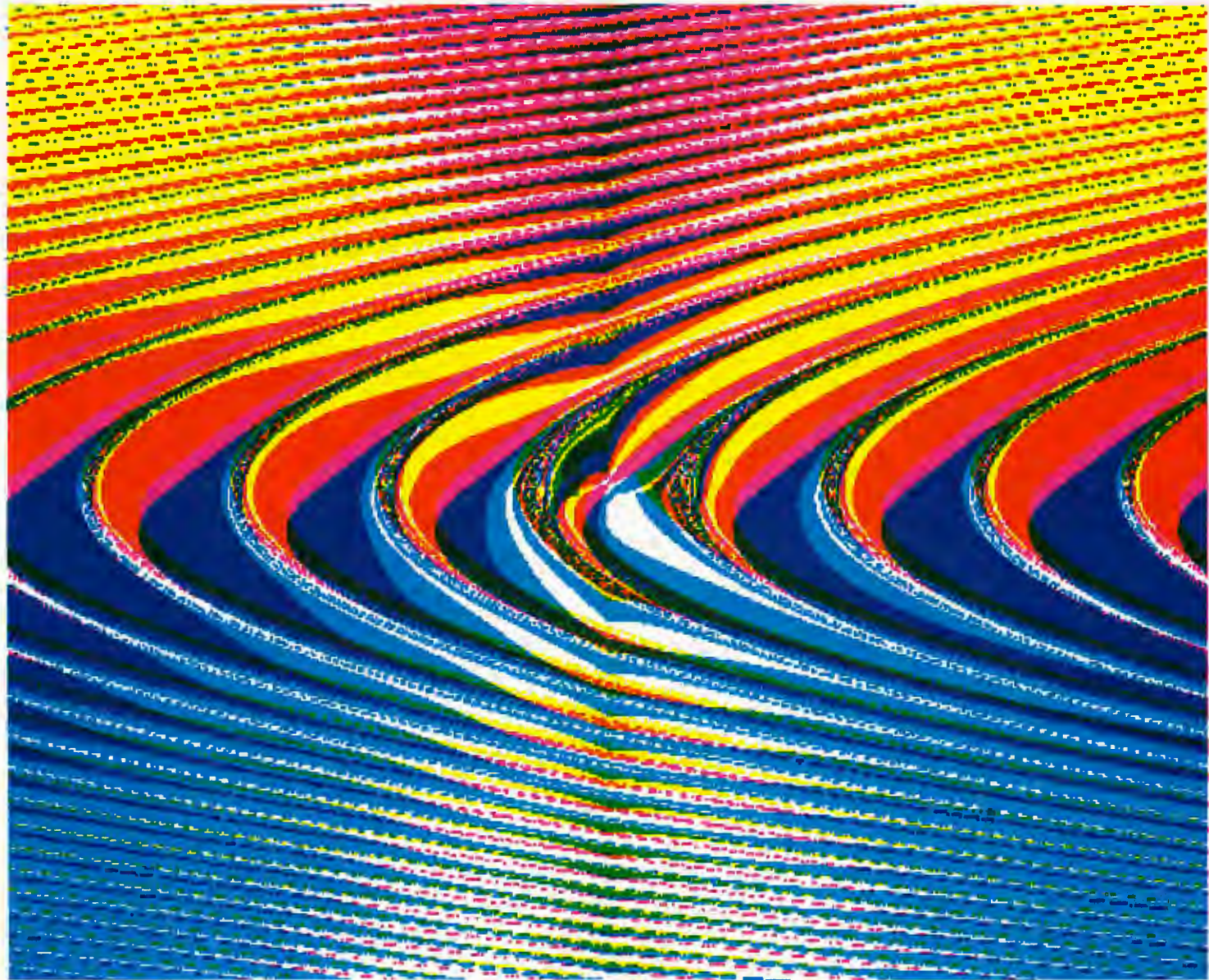


# 1984

# JULY

# 1984

| SUNDAY      | MONDAY | TUESDAY | WEDNESDAY          | THURSDAY  | FRIDAY    | SATURDAY |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
|-------------|--------|---------|--------------------|---|-----------|----------|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|---|---|--|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|-------------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|------|
| 1           | 2      | 3       | Independence Day 4 | 5   | 6         | 7        |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 8           | 9      | 10      | 11                 | 12  | 13        | 14       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 15          | 16     | 17      | 18                 | 19  | 20        | 21       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 22          | 23     | 24      | 25                 | 26  | 27        | 28       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 29          | 30     | 31      |                    | <table border="1"> <thead> <tr><th colspan="7">JUNE 1984</th></tr> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td></td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> </tbody> </table> | JUNE 1984 |          |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  |  | 1 | 2 |  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | <table border="1"> <thead> <tr><th colspan="7">AUGUST 1984</th></tr> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> </thead> <tbody> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </tbody> </table> | AUGUST 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  | July |
| JUNE 1984   |        |         |                    |   |           |          |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| S           | M      | T       | W                  | T   | F         | S        |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
|             |        |         |                    | 1   | 2         |          |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 3           | 4      | 5       | 6                  | 7   | 8         | 9        |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 10          | 11     | 12      | 13                 | 14  | 15        | 16       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 17          | 18     | 19      | 20                 | 21  | 22        | 23       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 24          | 25     | 26      | 27                 | 28  | 29        | 30       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| AUGUST 1984 |        |         |                    |   |           |          |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| S           | M      | T       | W                  | T   | F         | S        |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
|             |        |         | 1                  | 2   | 3         | 4        |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 5           | 6      | 7       | 8                  | 9   | 10        | 11       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 12          | 13     | 14      | 15                 | 16  | 17        | 18       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 19          | 20     | 21      | 22                 | 23  | 24        | 25       |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |
| 26          | 27     | 28      | 29                 | 30  | 31        |          |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |  |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |      |



### **FIRE AND ICE REVISITED**

Miles Color Art A-9 (revised)

August, 1984: This Beauty from the cover of calendar I was redone at  $480 \times 384$  resolution and inverted. Warm colors now dominate the upper latitudes

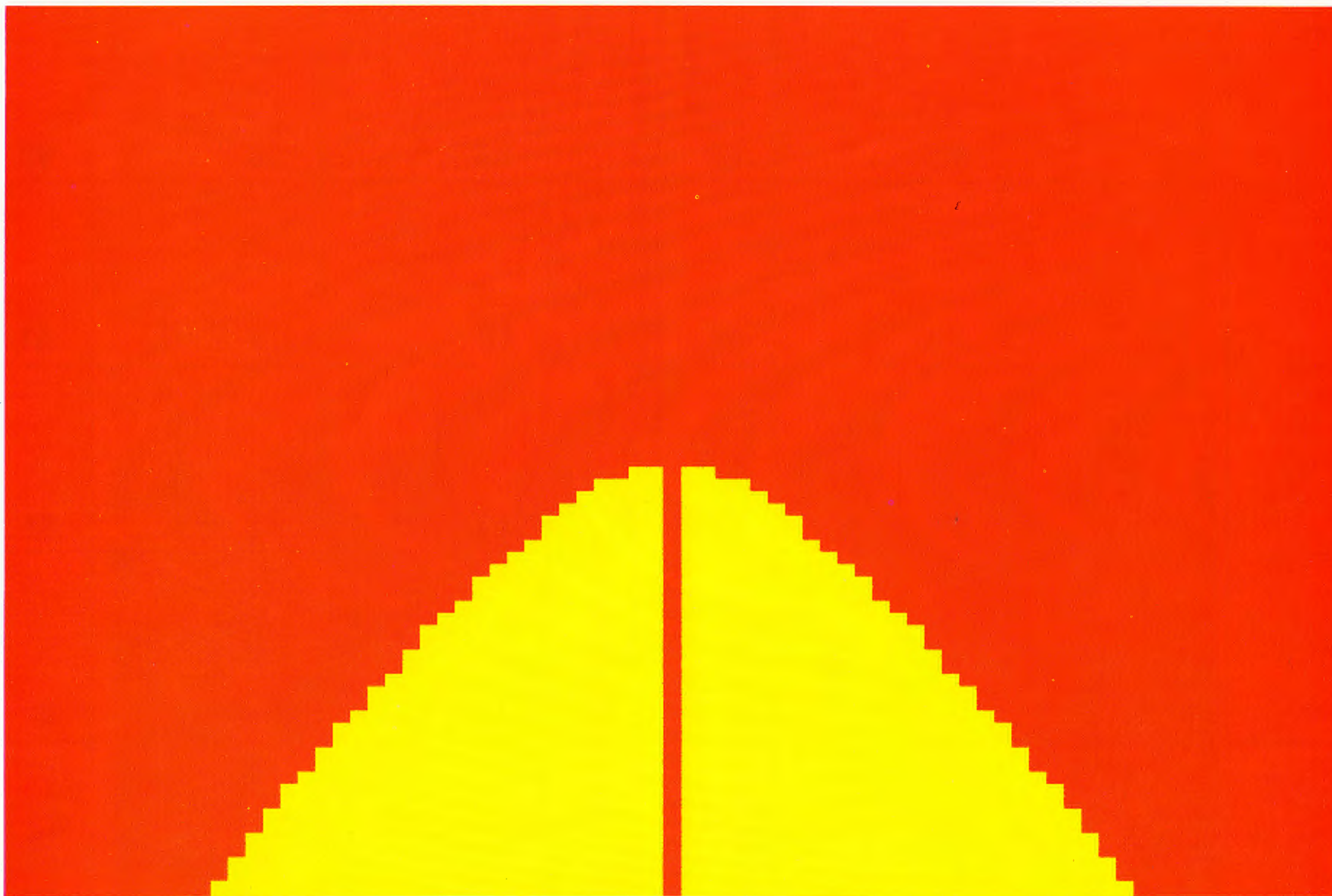
and cold colors the lower, typical for August on our planet.

# 1984

# AUGUST

# 1984

| SUNDAY  | MONDAY    | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
|---|-----------|---------|-----------|----------|--------|----------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|---|----------------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|---|---|---|---|
| <table border="1"> <tr><td colspan="7">JULY 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table> | JULY 1984 |         |           |          |        |          |  | S | M | T | W | T | F | S | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  | <table border="1"> <tr><td colspan="7">SEPTEMBER 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | SEPTEMBER 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  |  |  |  |  |  |  | 1 | 2 | 3 | 4 |
| JULY 1984   |           |         |           |          |        |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| S   | M         | T       | W         | T        | F      | S        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 1   | 2         | 3       | 4         | 5        | 6      | 7        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 8   | 9         | 10      | 11        | 12       | 13     | 14       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 15  | 16        | 17      | 18        | 19       | 20     | 21       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 22  | 23        | 24      | 25        | 26       | 27     | 28       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 29  | 30        | 31      |           |          |        |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| SEPTEMBER 1984  |           |         |           |          |        |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| S   | M         | T       | W         | T        | F      | S        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
|   |           |         |           |          |        | 1        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 2   | 3         | 4       | 5         | 6        | 7      | 8        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 9   | 10        | 11      | 12        | 13       | 14     | 15       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 16  | 17        | 18      | 19        | 20       | 21     | 22       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 23  | 24        | 25      | 26        | 27       | 28     | 29       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 30  |           |         |           |          |        |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 5   | 6         | 7       | 8         | 9        | 10     | 11       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 12  | 13        | 14      | 15        | 16       | 17     | 18       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 19  | 20        | 21      | 22        | 23       | 24     | 25       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
| 26  | 27        | 28      | 29        | 30       | 31     |          |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |
|   |           |         |           |          |        | August   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |   |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |   |



### **SUPER SEMINOLE ANTHILL**

Miles Color Art A-58

September, 1984: This Seminole September pattern was produced from the function  $((y - (\text{abs}(x))^{(2/3)})^2 / (x^2 + y^2 + .3))$ . The function never gets out of the

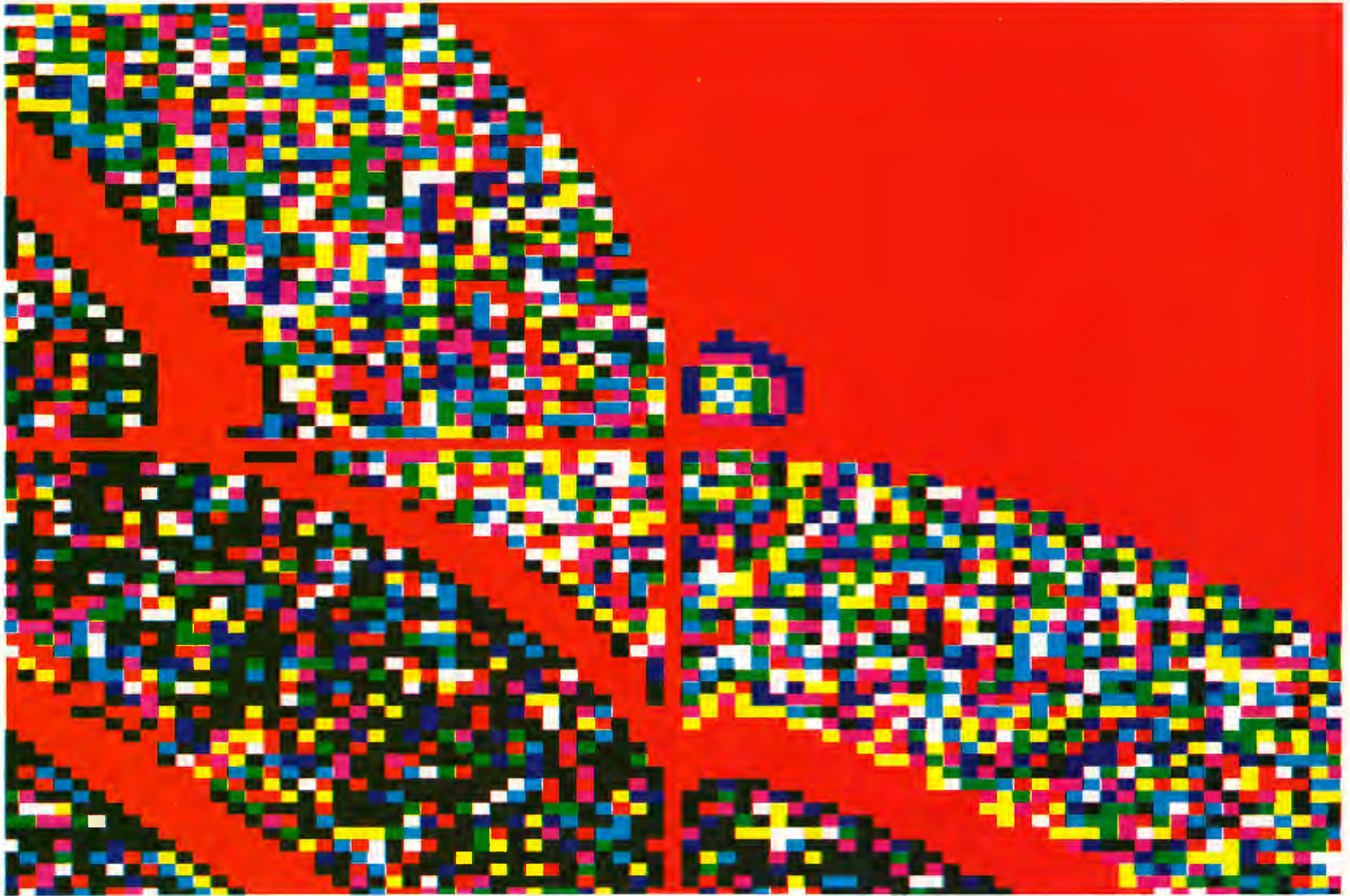
[0,2) range to take on colors other than the red (1) and yellow (3) values for those first two intervals.

# 1984

# SEPTEMBER

# 1984

| SUNDAY  | MONDAY      | TUESDAY | WEDNESDAY | THURSDAY           | FRIDAY | SATURDAY  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
|---|-------------|---------|-----------|--------------------|--------|-----------|--|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--------------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|---|
| <table border="1"> <tr><td colspan="7">AUGUST 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </table> | AUGUST 1984 |         |           |                    |        |           |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  | <table border="1"> <tr><td colspan="7">OCTOBER 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </table> | OCTOBER 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  | 1 |
| AUGUST 1984   |             |         |           |                    |        |           |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| S   | M           | T       | W         | T                  | F      | S         |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
|   |             |         | 1         | 2                  | 3      | 4         |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 5   | 6           | 7       | 8         | 9                  | 10     | 11        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 12  | 13          | 14      | 15        | 16                 | 17     | 18        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 19  | 20          | 21      | 22        | 23                 | 24     | 25        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 26  | 27          | 28      | 29        | 30                 | 31     |           |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| OCTOBER 1984  |             |         |           |                    |        |           |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| S   | M           | T       | W         | T                  | F      | S         |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
|   |             |         | 1         | 2                  | 3      | 4         |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 5   | 6           | 7       | 8         | 9                  | 10     | 11        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 12  | 13          | 14      | 15        | 16                 | 17     | 18        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 19  | 20          | 21      | 22        | 23                 | 24     | 25        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 26  | 27          | 28      | 29        | 30                 | 31     |           |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 2   | Labor Day 3 | 4       | 5         | 6                  | 7      | 8         |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| Grandparents' Day 9   | 10          | 11      | 12        | 13                 | 14     | 15        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 16  | 17          | 18      | 19        | 20                 | 21     | 22        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 23  | 24          | 25      | 26        | Jewish New Year 27 | 28     | 29        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 30  |             |         |           |                    |        | September |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |



### BAT OUT OF HELL

Miles Color Art A-43

October, 1984: This Halloween entry haunts Miles's ACM lecture tray as a horrible product of inadequately debugged software appropriate for the

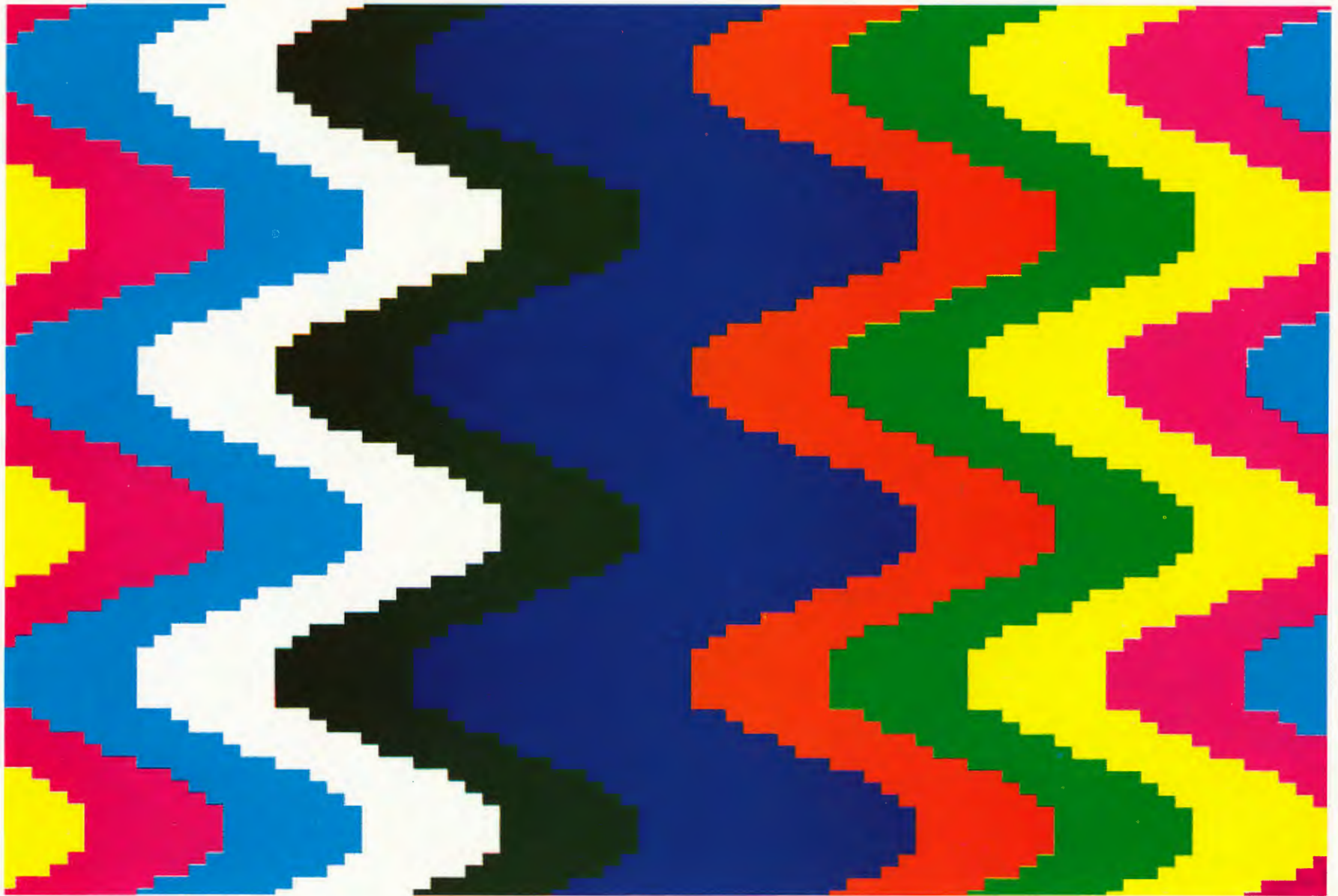
JOURNAL OF IRREPRODUCIBLE RESULTS. We defy you to generate it from  $f = x^3y^4/e^{(x+y)}$  using red only where  $0 \leq f < 1$ .

# 1984

# OCTOBER

# 1984

| SUNDAY         | MONDAY         | TUESDAY | WEDNESDAY    | THURSDAY  | FRIDAY | SATURDAY       |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
|----------------|----------------|---------|--------------|---|--------|----------------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|----|---|---------------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|--|--|-------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|---------|
|                | 1              | 2       | 3            | 4   | 5      | Yom Kippur 6   |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 7              | Columbus Day 8 | 9       | 10           | 11  | 12     | 13             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 14             | 15             | 16      | 17           | 18  | 19     | 20             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 21             | 22             | 23      | 24           | 25  | 26     | 27             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 28             | 29             | 30      | Halloween 31 | <table border="1"> <thead> <tr> <th colspan="7">SEPTEMBER 1984</th> </tr> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> <tr> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> </tr> <tr> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> </tr> <tr> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>30</td> </tr> </tbody> </table> |        | SEPTEMBER 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |  |  |  |  |  |  | 30 | <table border="1"> <thead> <tr> <th colspan="7">NOVEMBER 1984</th> </tr> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 2 3</td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> </tr> <tr> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td></td> </tr> </tbody> </table> | NOVEMBER 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  |  |  |  | 1 2 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  | October |
| SEPTEMBER 1984 |                |         |              |   |        |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| S              | M              | T       | W            | T   | F      | S              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
|                |                |         |              |   |        | 1              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 2              | 3              | 4       | 5            | 6   | 7      | 8              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 9              | 10             | 11      | 12           | 13  | 14     | 15             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 16             | 17             | 18      | 19           | 20  | 21     | 22             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 23             | 24             | 25      | 26           | 27  | 28     | 29             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
|                |                |         |              |   |        | 30             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| NOVEMBER 1984  |                |         |              |   |        |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| S              | M              | T       | W            | T   | F      | S              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
|                |                |         |              |   |        | 1 2 3          |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 4              | 5              | 6       | 7            | 8   | 9      | 10             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 11             | 12             | 13      | 14           | 15  | 16     | 17             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 18             | 19             | 20      | 21           | 22  | 23     | 24             |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |
| 25             | 26             | 27      | 28           | 29  | 30     |                |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |    |   |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |       |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |         |



## SINUSOIDAL SHAPES

Miles Color Art A-41

November, 1984: For national election month our function is  $(x + 7 \sin(y/4))/8$ . Few issues are just black and white—individual candidates and voters waver; often tactics and positions at the far left and far right are similar,

as with this design. The subtitle "Ric Rac" appeals to those seeing a fabric trim design.

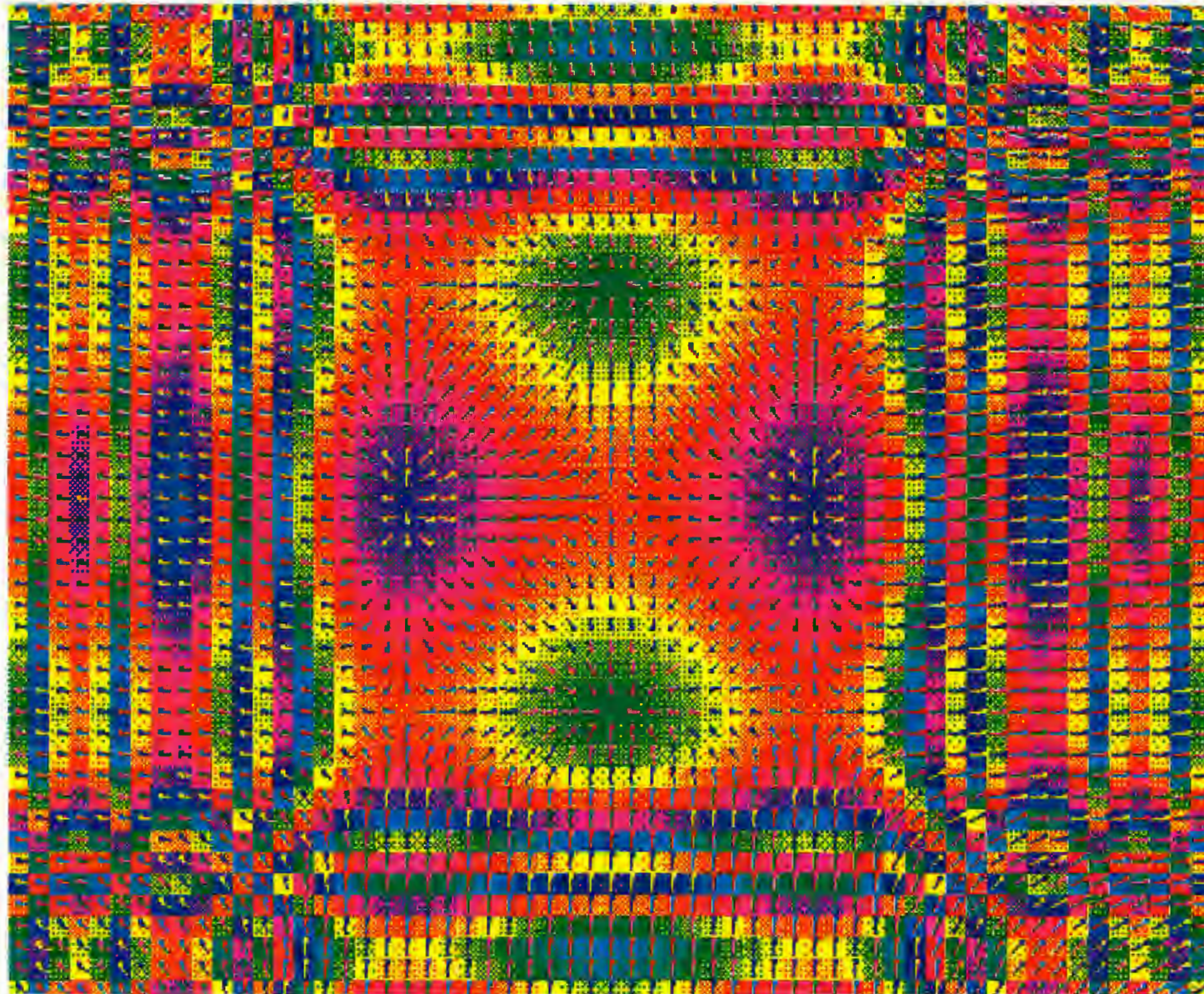


# 1984

# NOVEMBER

# 1984

| SUNDAY   | MONDAY       | TUESDAY        | WEDNESDAY | THURSDAY            | FRIDAY | SATURDAY |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
|--|--------------|----------------|-----------|---------------------|--------|----------|--|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|---------------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|---|---|---|
| <table border="1"> <tr><td colspan="7">OCTOBER 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table> | OCTOBER 1984 |                |           |                     |        |          |  | S | M | T | W | T | F | S |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  | <table border="1"> <tr><td colspan="7">DECEMBER 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td>31</td><td></td><td></td><td></td><td></td><td></td></tr> </table> | DECEMBER 1984 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  |  |  | 1 | 2 | 3 |
| OCTOBER 1984   |              |                |           |                     |        |          |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| S  | M            | T              | W         | T                   | F      | S        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
|  | 1            | 2              | 3         | 4                   | 5      | 6        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 7  | 8            | 9              | 10        | 11                  | 12     | 13       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 14   | 15           | 16             | 17        | 18                  | 19     | 20       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 21   | 22           | 23             | 24        | 25                  | 26     | 27       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 28   | 29           | 30             | 31        |                     |        |          |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| DECEMBER 1984  |              |                |           |                     |        |          |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| S  | M            | T              | W         | T                   | F      | S        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
|  |              |                |           |                     |        | 1        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 2  | 3            | 4              | 5         | 6                   | 7      | 8        |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 9  | 10           | 11             | 12        | 13                  | 14     | 15       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 16   | 17           | 18             | 19        | 20                  | 21     | 22       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 23   | 24           | 25             | 26        | 27                  | 28     | 29       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 30   | 31           |                |           |                     |        |          |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 4  | 5            | Election Day 6 | 7         | 8                   | 9      | 10       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| Veteran's Day 11   | 12           | 13             | 14        | 15                  | 16     | 17       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 18   | 19           | 20             | 21        | Thanksgiving Day 22 | 23     | 24       |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
| 25   | 26           | 27             | 28        | 29                  | 30     |          |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |
|  |              |                |           |                     |        | November |  |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |               |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |   |   |   |



### CHRISTMAS CRAZY QUILT

Miles Color Art E-2

December, 1984: Christmas colors dominate our graph of  $32 [(x/10^4 - (y/10)^4 - 2(x/10)^2 + 2(y/10)^2)]$ . The color in a block shows the function value there; the vector depicts its gradient (direction of greatest change). Note that

vectors are perpendicular to boundaries of equi-color zones. Observe their behavior near relative maxima and minima at  $(\pm 10, \pm 10)$ .

# 1984

# DECEMBER

# 1984

| SUNDAY  | MONDAY        | TUESDAY          | WEDNESDAY   | THURSDAY | FRIDAY | SATURDAY |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
|---|---------------|------------------|-------------|----------|--------|----------|--|---|---|---|---|---|---|---|--|--|--|---|---|---|--|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--------------|--|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|---|
| <table border="1"> <tr><td colspan="7">NOVEMBER 1984</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td></td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr> </table> | NOVEMBER 1984 |                  |             |          |        |          |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 |  | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |  | <table border="1"> <tr><td colspan="7">JANUARY 1985</td></tr> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </table> | JANUARY 1985 |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  | 1 |
| NOVEMBER 1984   |               |                  |             |          |        |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| S   | M             | T                | W           | T        | F      | S        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
|   |               |                  | 1           | 2        | 3      |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 4   | 5             | 6                | 7           | 8        | 9      | 10       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 11  | 12            | 13               | 14          | 15       | 16     | 17       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 18  | 19            | 20               | 21          | 22       | 23     | 24       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 25  | 26            | 27               | 28          | 29       | 30     |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| JANUARY 1985  |               |                  |             |          |        |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| S   | M             | T                | W           | T        | F      | S        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
|   |               |                  | 1           | 2        | 3      | 4        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 5   | 6             | 7                | 8           | 9        | 10     | 11       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 12  | 13            | 14               | 15          | 16       | 17     | 18       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 19  | 20            | 21               | 22          | 23       | 24     | 25       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 26  | 27            | 28               | 29          | 30       | 31     |          |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 2   | 3             | 4                | 5           | 6        | 7      | 8        |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 9   | 10            | 11               | 12          | 13       | 14     | 15       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 16  | 17            | 18               | Hanukkah 19 | 20       | 21     | 22       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 23  | 24            | Christmas Day 25 | 26          | 27       | 28     | 29       |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |
| 30  | 31            |                  |             |          |        | December |  |   |   |   |   |   |   |   |  |  |  |   |   |   |  |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |              |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |   |



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