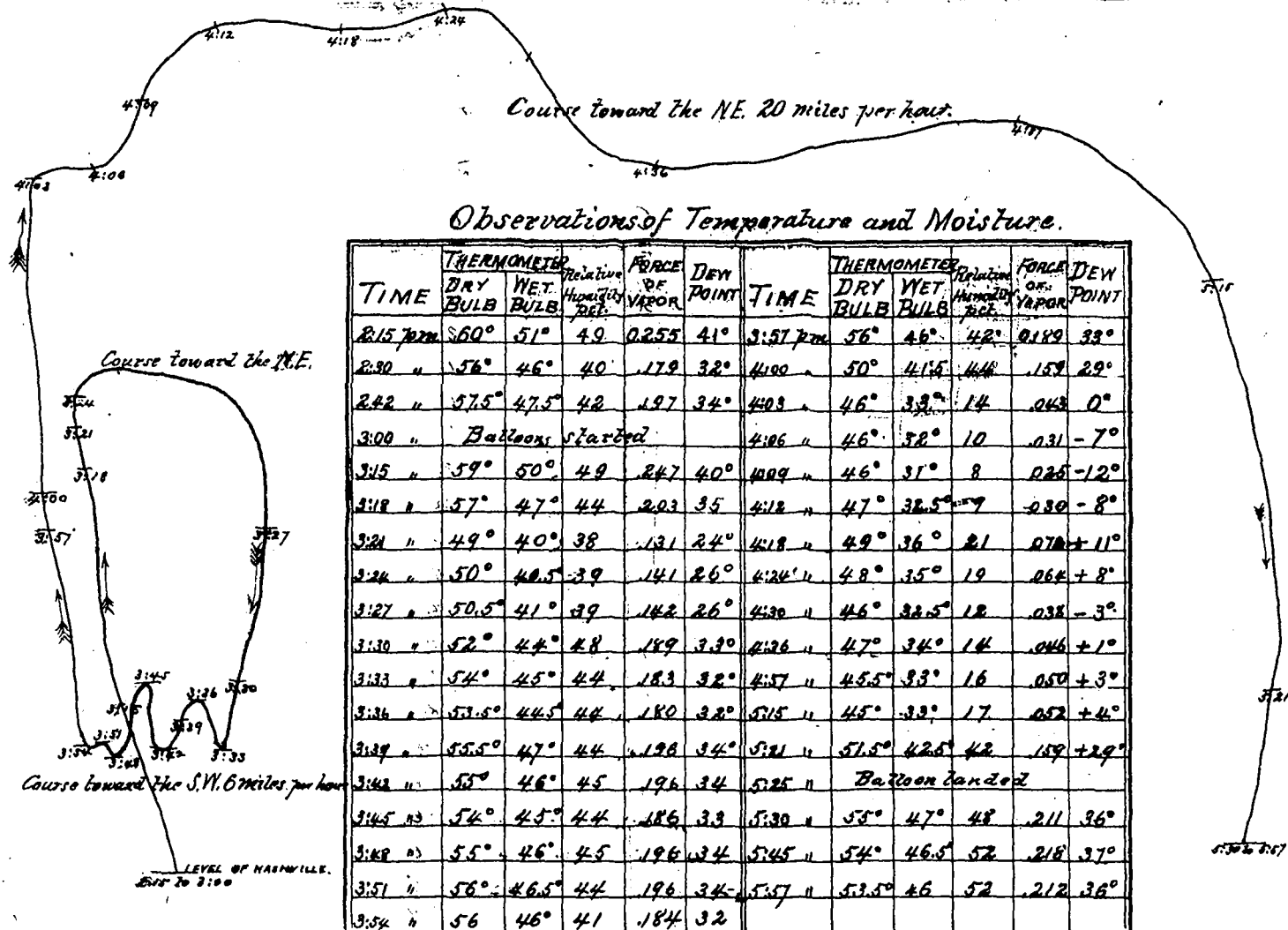


*Balloon Ascension at Nashville, Tenn. April 3rd 1877,
in Balloon "King Carnival" (containing 25,000 cubic feet)
by Prof. S.A. King, Aeronaut, and Sgt. A.C. Ford Signal Service U.S.A., Observer.*

| Barometer [Anovoid] Inches | Approximate Altitude Feet |
|----------------------------------|---------------------------------|
| 24.00 | 6,100 |
| | 25.00 4,970 |
| | 26.00 3,900 |
| | 27.00 2,890 |
| | 28.00 1,860 |
| | 29.00 930 |
| 29.99 30.00 | SEA LEVEL |



Observations of Temperature and Moisture.

| TIME | THERMOMETER | | Relative Humidity Pct. | FORCE OF WIND | DEW POINT | TIME | THERMOMETER | | Relative Humidity Pct. | FORCE OF WIND | DEW POINT |
|---------|-----------------|-------------|------------------------------|---------------------|--------------|---------|----------------|-------------|------------------------------|---------------------|--------------|
| | DRY BULB | WET BULB | | | | | DRY BULB | WET BULB | | | |
| 2:15 pm | 56° | 51° | 49 | 0.255 | 41° | 3:57 pm | 56° | 46° | 42° | 0.189 | 33° |
| 2:30 " | 56° | 46° | 40 | .179 | 32° | 4:00 " | 50° | 41.5° | 44 | .159 | 29° |
| 2:42 " | 57.5° | 47.5° | 42 | .197 | 34° | 4:03 " | 46° | 33° | 14 | .043 | 0° |
| 3:00 " | Balloon started | | | | | 4:06 " | 46° | 32° | 10 | .031 | -7° |
| 3:15 " | 59° | 50° | 49 | .247 | 40° | 4:09 " | 46° | 31° | 8 | .026 | -12° |
| 3:18 " | 57° | 47° | 44 | .203 | 35° | 4:12 " | 47° | 32.5° | 9 | .030 | -8° |
| 3:21 " | 49° | 40° | 38 | .131 | 24° | 4:18 " | 49° | 36° | 21 | .070 | +11° |
| 3:24 " | 50° | 40.5° | 39 | .141 | 26° | 4:24 " | 48° | 35° | 19 | .064 | +8° |
| 3:27 " | 50.5° | 41° | 39 | .142 | 26° | 4:30 " | 46° | 32.5° | 12 | .038 | -3° |
| 3:30 " | 52° | 44° | 48 | .189 | 33° | 4:36 " | 47° | 34° | 14 | .046 | +1° |
| 3:33 " | 54° | 45° | 44 | .183 | 32° | 4:57 " | 45.5° | 33° | 16 | .050 | +3° |
| 3:36 " | 53.5° | 44.5° | 44 | .180 | 32° | 5:15 " | 45° | 33° | 17 | .052 | +4° |
| 3:39 " | 55.5° | 47° | 44 | .190 | 34° | 5:21 " | 51.5° | 42.5° | 42 | .159 | +29° |
| 3:42 " | 55° | 46° | 45 | .196 | 34 | 5:25 " | Balloon landed | | | | |
| 3:45 " | 54° | 45° | 44 | .186 | 33 | 5:30 " | 55° | 47° | 48 | .211 | 36° |
| 3:48 " | 55° | 46° | 45 | .196 | 34 | 5:45 " | 54° | 46.5° | 52 | .218 | 37° |
| 3:51 " | 56° | 46.5° | 44 | .196 | 34 | 5:57 " | 53.5° | 46 | 52 | .212 | 36° |
| 3:54 " | 56 | 46° | 41 | .184 | 32 | | | | | | |

N.B. The Relative Humidity has been computed rigorously by Regnault's formula.

SCALE OF MILES

