



# AUGUST 2004

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

## RALEIGH/DURHAM, NC

RALEIGH-DURHAM INTL ARPT (RDU)

Lat: 35°52' N Long: 78°47' W Elev (Ground): 427 Feet

Time Zone: EASTERN WBAN: 13722 ISSN #:0198-3784

| DATE                           | TEMPERATURE °F |         |         |                    |                   |                     | DEG DAYS<br>BASE 65° |         | WEATHER  | SNOW/ICE<br>ON GND(IN)            |             | PRECIPITATION<br>(INCHES) |                                    | PRESSURE<br>(INCHES OF HG) |                         | WIND SPEED = MPH<br>DIR = TENS OF DEGREES |  |                  |             |     |                              |     |    | DATE |  |
|--------------------------------|----------------|---------|---------|--------------------|-------------------|---------------------|----------------------|---------|--|-----------------------------------|-------------|---------------------------|------------------------------------|----------------------------|-------------------------|---|--|------------------|-------------|-----|------------------------------|-----|----|------|--|
|                                | MAXIMUM        | MINIMUM | AVERAGE | DEP FROM<br>NORMAL | AVERAGE<br>DEW PT | AVERAGE<br>WET BULB | HEATING              | COOLING |  | 0700<br>LST                       | 1300<br>LST | 2400<br>LST               | 2400<br>LST                        | AVERAGE<br>STATION         | AVERAGE<br>SEA<br>LEVEL | RESULTANT<br>SPEED                        | RES DIR  | AVERAGE<br>SPEED | MAXIMUM     |     |                              |     |    |      |  |
|                                |                |         |         |                    |                   |                     |                      |         |  |                                   |             |                           |                                    |                            |                         |   |  |                  | 5-SEC 2-MIN |     |                              |     |    |      |  |
|                                |                |         |         |                    |                   |                     |                      |         |  |                                   |             |                           |                                    |                            |                         |   |  |                  | SPEED       | DIR | SPEED                        | DIR |    |      |  |
| 1                              | 2              | 3       | 4       | 5                  | 6                 | 7                   | 8                    | 9       | 10   | 11                                | 12          | 13                        | 14                                 | 15                         | 16                      | 17  | 18   | 19               | 20          | 21  | 22                           | 23  | 24 |      |  |
| 01                             | 89             | 74      | 82*     | 3                  | 74                | 76                  | 0                    | 17      | TS RA BR                                       | 0                                 |             | 0.0                       | 0.06                               | 29.56                      | 30.01                   | 3.7                                       | 10   | 5.6              | 18          | 15  | 13                           | 17  | 01 |      |  |
| 02                             | 85             | 73      | 79      | 0                  | 74                | 74                  | 0                    | 14      | TS RA FG BR                                    | 0                                 |             | 0.0                       | 0.48                               | 29.46                      | 29.92                   | 4.8                                       | 04   | 5.9              | 25          | 15  | 21                           | 15  | 02 |      |  |
| 03                             | 87             | 72      | 80      | 1                  | 72                | 74                  | 0                    | 15      | RA BR  | 0                                 |             | 0.0                       | 0.01                               | 29.36                      | 29.82                   | 5.5                                       | 02   | 6.5              | 18          | 31  | 15                           | 03  | 03 |      |  |
| 04                             | 91*            | 70      | 81      | 2                  | 71                | 74                  | 0                    | 16      | MIFG BR HZ                                     | 0                                 |             | 0.0                       | 0.00                               | 29.38                      | 29.84                   | 2.6                                       | 24   | 3.2              | 16          | 25  | 13                           | 24  | 04 |      |  |
| 05                             | 89             | 67      | 78      | -1                 | 71                | 73                  | 0                    | 13      | TSRA RA BR HZ                                  | 0                                 |             | 0.0                       | 0.67                               | 29.32                      | 29.77                   | 2.1                                       | 36   | 6.9              | 24          | 03  | 20                           | 02  | 05 |      |  |
| 06                             | 76             | 56      | 66*     | -12                | 57                | 61                  | 0                    | 1       |  | 0                                 |             | 0.0                       | 0.00                               | 29.45                      | 29.91                   | 6.6                                       | 02   | 7.3              | 23          | 04  | 18                           | 04  | 06 |      |  |
| 07                             | 80             | 53*     | 67      | -11                | 54                | 59                  | 0                    | 2       | BR   | 0                                 |             | 0.0                       | 0.00                               | 29.57                      | 30.03                   | 2.0                                       | 02   | 4.2              | 20          | 30  | 13                           | 31  | 07 |      |  |
| 08                             | 83             | 57      | 70      | -8                 | 58                | 63                  | 0                    | 5       |  | 0                                 |             | 0.0                       | 0.00                               | 29.69                      | 30.15                   | 0.9                                       | 21   | 1.5              | 17          | 20  | 9                            | 27  | 08 |      |  |
| 09                             | 85             | 60      | 73      | -5                 | 61                | 66                  | 0                    | 8       | BR   | 0                                 |             | 0.0                       | 0.00                               | 29.69                      | 30.15                   | 3.0                                       | 21   | 4.3              | 21          | 16  | 13                           | 20  | 09 |      |  |
| 10                             | 86             | 66      | 76      | -2                 | 64                | 68                  | 0                    | 11      |  | 0                                 |             | 0.0                       | 0.00                               | 29.59                      | 30.05                   | 7.2                                       | 22   | 7.8              | 20          | 20  | 16                           | 20  | 10 |      |  |
| 11                             | 88             | 67      | 78      | 0                  | 67                | 70                  | 0                    | 13      |  | 0                                 |             | 0.0                       | 0.00                               | 29.51                      | 29.96                   | 5.7                                       | 21   | 7.5              | 17          | 17  | 14                           | 18  | 11 |      |  |
| 12                             | 80             | 68      | 74      | -4                 | 69                | 70                  | 0                    | 9       | TS TSRA RA FG BR HZ                            | 0                                 |             | 0.0                       | 0.92                               | 29.46                      | 29.92                   | 6.0                                       | 19   | 6.6              | 28          | 24  | 25                           | 24  | 12 |      |  |
| 13                             | 83             | 68      | 76      | -2                 | 69                | 70                  | 0                    | 11      | TS TSRA RA BR                                  | 0                                 |             | 0.0                       | 1.81                               | 29.50                      | 29.96                   | 2.7                                       | 24   | 4.2              | 28          | 26  | 20                           | 26  | 13 |      |  |
| 14                             | 72             | 65      | 69      | -9                 | 66                | 67                  | 0                    | 4       | RA BR  | 0                                 |             | 0.0                       | 1.01                               | 29.64                      | 30.11                   | 4.2                                       | 02   | 5.2              | 20          | 05  | 16                           | 04  | 14 |      |  |
| 15                             | 69             | 64      | 67      | -10                | 65                | 65                  | 0                    | 2       | RA BR  | 0                                 |             | 0.0                       | 0.94                               | 29.74                      | 30.21                   | 5.4                                       | 04   | 5.9              | 14          | 04  | 10                           | 05  | 15 |      |  |
| 16                             | 82             | 67      | 75      | -2                 | 66                | 68                  | 0                    | 10      | RA DZ BR                                       | 0                                 |             | 0.0                       | 0.03                               | 29.71                      | 30.18                   | 1.9                                       | 02   | 3.7              | 13          | 03  | 10                           | 04  | 16 |      |  |
| 17                             | 84             | 64      | 74      | -3                 | 67                | 69                  | 0                    | 9       | BCFG BR HZ                                     | 0                                 |             | 0.0                       | 0.00                               | 29.66                      | 30.12                   | 2.9                                       | 17   | 3.4              | 17          | 19  | 14                           | 15  | 17 |      |  |
| 18                             | 86             | 71      | 79      | 2                  | 70                | 72                  | 0                    | 14      | TS BR HZ                                       | 0                                 |             | 0.0                       | 0.00                               | 29.58                      | 30.04                   | 6.8                                       | 21   | 7.3              | 20          | 22  | 16                           | 22  | 18 |      |  |
| 19                             | 90             | 71      | 81      | 4                  | 71                | 74                  | 0                    | 16      | BR HZ  | 0                                 |             | 0.0                       | 0.00                               | 29.61                      | 30.07                   | 5.9                                       | 23   | 6.6              | 15          | 23  | 12                           | 22  | 19 |      |  |
| 20                             | 90             | 70      | 80      | 3                  | 70                | 74                  | 0                    | 15      | BR HZ  | 0                                 |             | 0.0                       | 0.00                               | 29.60                      | 30.06                   | 7.1                                       | 21   | 7.6              | 18          | 20  | 15                           | 20  | 20 |      |  |
| 21                             | 88             | 70      | 79      | 2                  | 72                | 74                  | 0                    | 14      | TSRA RA BR HZ                                  | 0                                 |             | 0.0                       | 0.76                               | 29.48                      | 29.94                   | 8.2                                       | 23   | 9.7              | 25          | 23  | 21                           | 24  | 21 |      |  |
| 22                             | 81             | 67      | 74      | -3                 | 63                | 67                  | 0                    | 9       |  | 0                                 |             | 0.0                       | 0.00                               | 29.58                      | 30.04                   | 5.0                                       | 05   | 5.5              | 18          | 06  | 14                           | 05  | 22 |      |  |
| 23                             | 84             | 65      | 75      | -1                 | 65                | 68                  | 0                    | 10      | BR   | 0                                 |             | 0.0                       | 0.00                               | 29.58                      | 30.04                   | 1.7                                       | 10   | 2.7              | 18          | 14  | 9                            | 11  | 23 |      |  |
| 24                             | 85             | 63      | 74      | -2                 | 64                | 67                  | 0                    | 9       | BR HZ  | 0                                 |             | 0.0                       | 0.00                               | 29.66                      | 30.12                   | 2.7                                       | 08   | 3.5              | 16          | 09  | 12                           | 04  | 24 |      |  |
| 25                             | 83             | 63      | 73      | -3                 | 64                | 67                  | 0                    | 8       | MIFG BR HZ                                     | 0                                 |             | 0.0                       | 0.00                               | 29.74                      | 30.20                   | 4.1                                       | 06   | 5.0              | 15          | 06  | 13                           | 06  | 25 |      |  |
| 26                             | 84             | 65      | 75      | -1                 | 66                | 69                  | 0                    | 10      | FG BR  | 0                                 |             | 0.0                       | 0.00                               | 29.73                      | 30.20                   | 4.5                                       | 05   | 5.2              | 14          | 03  | 12                           | 04  | 26 |      |  |
| 27                             | 87             | 70      | 79      | 3                  | 69                | 72                  | 0                    | 14      | BR   | 0                                 |             | 0.0                       | 0.00                               | 29.67                      | 30.13                   | 3.9                                       | 05   | 4.8              | 17          | 09  | 14                           | 10  | 27 |      |  |
| 28                             | 89             | 66      | 78      | 2                  | 67                | 71                  | 0                    | 13      | MIFG BR  | 0                                 |             | 0.0                       | 0.00                               | 29.56                      | 30.02                   | 1.9                                       | 09   | 2.9              | 20          | 13  | 12                           | 11  | 28 |      |  |
| 29                             | 81             | 70      | 76      | 1                  | 72                | 73                  | 0                    | 11      | RA FG BR                                       | 0                                 |             | 0.0                       | 0.12                               | 29.47                      | 29.92                   | 6.0                                       | 07   | 6.7              | 25          | 09  | 17                           | 10  | 29 |      |  |
| 30                             | 81             | 73      | 77      | 2                  | 72                | 73                  | 0                    | 12      | RA BR  | 0                                 |             | 0.0                       | 2.45                               | 29.36                      | 29.82                   | 4.8                                       | 36   | 10.8             | 35*         | 03  | 26*                          | 03  | 30 |      |  |
| 31                             | 86             | 71      | 79      | 4                  | 71                | 73                  | 0                    | 14      | TS RA BR HZ                                    | 0                                 |             | 0.0                       | T                                  | 29.61                      | 30.07                   | 1.3                                       | 25   | 3.5              | 12          | 22  | 9                            | 04  | 31 |      |  |
| 84.0 66.6 75.3 ■■              |                |         |         |                    |                   |                     |                      |         |  | < MONTHLY AVERAGES TOTALS->       |             |                           |                                    | 0.0                        | 9.26                    | 29.56                                     | 30.03  | 0.6              | 36          | 5.5 | <- MONTHLY AVERAGES          |     |    |      |  |
| -3.2 -.6 -1.9 ■■               |                |         |         |                    |                   |                     |                      |         |  | <-----DEPARTURE FROM NORMAL-----> |             |                           |                                    |                            |                         | 5.48                                      | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 |                  |             |     |                              |     |    |      |  |
| DEGREE DAYS                    |                |         |         |                    |                   |                     |                      |         | GREATEST 24-HR PRECIPITATION: 2.73 DATE: 13-14 |                                   |             |                           | GREATEST 24-HR SNOWFALL: 0.0 DATE: |                            |                         |   | GREATEST SNOW DEPTH: 0 DATE:                   |                  |             |     | SEA LEVEL PRESSURE DATE TIME |     |    |      |  |
| MONTHLY TOTAL DEPARTURE        |                |         |         |                    |                   |                     |                      |         | MAXIMUM  |                                   |             |                           | MINIMUM                            |                            |                         |   | : 30.26 15 1051                                |                  |             |     | : 29.63 30 0751              |     |    |      |  |
| SEASON TO DATE TOTAL DEPARTURE |                |         |         |                    |                   |                     |                      |         | HEATING: 0 -1 0 -1                             |                                   |             |                           | COOLING: 329 -50 1478 210          |                            |                         |   | NUMBER OF DAYS WITH ➡                          |                  |             |     | MAXIMUM TEMP ≥ 90: 3         |     |    |      |  |
|                                |                |         |         |                    |                   |                     |                      |         | MAXIMUM TEMP ≤ 32: 0                           |                                   |             |                           | MINIMUM TEMP ≤ 0: 0                |                            |                         |   | PRECIPITATION ≥ 0.01 INCH: 12                  |                  |             |     | PRECIPITATION ≥ 0.10 INCH: 9 |     |    |      |  |
|                                |                |         |         |                    |                   |                     |                      |         | THUNDERSTORMS: 8                               |                                   |             |                           | HEAVY FOG: 0                       |                            |                         |   | SNOWFALL ≥ 1.0 INCH: 0                         |                  |             |     |                              |     |    |      |  |

AUGUST 2004  
RALEIGH/DURHAM, NC

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

AUGUST 2004

RDU

WBAN # 13722

| DATE | FOR HOUR (LST) ENDING AT |      |      |      |      |      |      |      |      |      |      |      | DATE | FOR HOUR (LST) ENDING AT |      |      |      |      |      |      |      |      |      |      |    | DATE | Sum if<br>Different<br>(See Note) | 2400<br>LST     |      |
|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|----|------|-----------------------------------|-----------------|------|
|      | 1                        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |      | 13                       | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24 |      |                                   | Water<br>Equiv. |      |
| 01   |                          |      |      | 0.01 |      |      |      |      |      |      |      |      | 01   |                          | 0.05 | T    |      |      |      |      |      |      |      |      | 01 |      |                                   | 0.06            |      |
| 02   |                          |      |      |      |      |      |      |      |      |      |      |      | 02   | T                        | T    | T    |      | 0.08 | 0.02 | 0.03 | T    |      | T    | T    | 02 |      |                                   | 0.48            |      |
| 03   | T                        | T    |      |      | T    | 0.01 | T    | T    | T    | 0.35 | T    |      | 03   |                          |      |      |      |      |      |      |      |      |      |      | 03 |      |                                   | 0.01            |      |
| 04   |                          |      |      |      |      |      |      |      |      |      |      |      | 04   |                          | 0.09 |      |      |      |      |      |      |      |      |      | 04 |      |                                   | 0.00            |      |
| 05   |                          |      |      |      |      |      |      |      |      |      |      |      | 05   | T                        |      |      |      |      |      |      | 0.50 | 0.03 | 0.05 | T    | 05 |      |                                   | 0.67            |      |
| 06   |                          |      |      |      |      |      |      |      |      |      |      |      | 06   |                          |      |      |      |      |      |      |      |      |      |      | 06 |      |                                   | 0.00            |      |
| 07   |                          |      |      |      |      |      |      |      |      |      |      |      | 07   |                          |      |      |      |      |      |      |      |      |      |      | 07 |      |                                   | 0.00            |      |
| 08   |                          |      |      |      |      |      |      |      |      |      |      |      | 08   |                          |      |      |      |      |      |      |      |      |      |      | 08 |      |                                   | 0.00            |      |
| 09   |                          |      |      |      |      |      |      |      |      |      |      |      | 09   |                          |      |      |      |      |      |      |      |      |      |      | 09 |      |                                   | 0.00            |      |
| 10   |                          |      |      |      |      |      |      |      |      |      |      |      | 10   |                          |      |      |      |      |      |      |      |      |      |      | 10 |      |                                   | 0.00            |      |
| 11   |                          |      |      |      |      |      |      |      |      |      |      |      | 11   |                          |      |      |      |      |      |      |      |      |      |      | 11 |      |                                   | 0.00            |      |
| 12   |                          |      |      |      |      |      |      |      |      |      |      |      | 12   | T                        | T    | 0.01 | 0.85 | 0.06 | T    | T    |      |      |      | T    | 12 |      |                                   | 0.92            |      |
| 13   |                          | T    | 0.03 | 0.05 | 0.01 | T    |      |      |      |      |      |      | 13   |                          |      |      |      | 0.03 | 0.58 | 0.82 | 0.29 |      | T    |      | 13 |      |                                   | 1.81            |      |
| 14   |                          |      | 0.03 | 0.18 | T    | 0.09 | 0.30 | 0.02 | 0.02 | 0.01 | 0.01 |      | 14   | 0.08                     | 0.20 | 0.07 |      |      |      |      |      |      |      |      | 14 |      |                                   | 1.01            |      |
| 15   |                          |      |      |      |      |      |      | 0.07 | 0.12 | 0.20 | 0.18 | 0.04 | 15   | 0.02                     | 0.08 | 0.04 | 0.07 | 0.04 |      |      | T    | 0.04 | 0.03 | 0.01 | T  | 15   |                                   |                 | 0.94 |
| 16   | T                        | 0.01 | 0.01 | T    | 0.01 | T    | T    | T    |      |      |      |      | 16   |                          |      |      |      |      |      |      |      |      |      |      | 16 |      |                                   | 0.03            |      |
| 17   |                          |      |      |      |      |      |      |      |      |      |      |      | 17   |                          |      |      |      |      |      |      |      |      |      |      | 17 |      |                                   | 0.00            |      |
| 18   |                          |      |      |      |      |      |      |      |      |      |      |      | 18   |                          |      |      |      |      |      |      |      |      |      |      | 18 |      |                                   | 0.00            |      |
| 19   |                          |      |      |      |      |      |      |      |      |      |      |      | 19   |                          |      |      |      |      |      |      |      |      |      |      | 19 |      |                                   | 0.00            |      |
| 20   |                          |      |      |      |      |      |      |      |      |      |      |      | 20   |                          |      |      |      |      |      |      |      |      |      |      | 20 |      |                                   | 0.00            |      |
| 21   |                          |      |      |      |      |      |      |      |      |      |      |      | 21   |                          |      |      |      |      |      |      | 0.02 | 0.71 | 0.03 |      | 21 |      |                                   | 0.76            |      |
| 22   |                          |      |      |      |      |      |      |      |      |      |      |      | 22   |                          |      |      |      |      |      |      |      |      |      |      | 22 |      |                                   | 0.00            |      |
| 23   |                          |      |      |      |      |      |      |      |      |      |      |      | 23   |                          |      |      |      |      |      |      |      |      |      |      | 23 |      |                                   | 0.00            |      |
| 24   |                          |      |      |      |      |      |      |      |      |      |      |      | 24   |                          |      |      |      |      |      |      |      |      |      |      | 24 |      |                                   | 0.00            |      |
| 25   |                          |      |      |      |      |      |      |      |      |      |      |      | 25   |                          |      |      |      |      |      |      |      |      |      |      | 25 |      |                                   | 0.00            |      |
| 26   |                          |      |      |      |      |      |      |      |      |      |      |      | 26   |                          |      |      |      |      |      |      |      |      |      |      | 26 |      |                                   | 0.00            |      |
| 27   |                          |      |      |      |      |      |      |      |      |      |      |      | 27   |                          |      |      |      |      |      |      |      |      |      |      | 27 |      |                                   | 0.00            |      |
| 28   |                          |      |      |      |      |      |      |      |      |      |      |      | 28   |                          |      |      |      |      |      |      |      |      |      |      | 28 |      |                                   | 0.00            |      |
| 29   |                          |      |      |      |      |      |      |      |      |      |      |      | 29   | T                        | 0.03 | T    | 0.04 |      | T    | 0.03 | T    | T    |      | 0.02 | T  | 29   |                                   |                 | 0.12 |
| 30   |                          | T    | 0.02 | 0.39 | 0.36 | 0.19 | 0.41 | 0.28 | 0.16 | 0.20 | 0.03 |      | 30   | 0.14                     | 0.03 |      |      |      |      |      |      |      |      |      | 30 |      |                                   | 2.45            |      |
| 31   |                          |      |      |      |      |      |      |      |      |      |      |      | 31   |                          |      |      | T    |      |      |      |      |      |      |      | 31 |      |                                   | T               |      |

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes)  | 5    | 10   | 15   | 20   | 30   | 45   | 60   | 80   | 100  | 120  | 150  | 180  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation (Inches) | .36  | .57  | .69  | .74  | .83  | .86  | .92  | 1.24 | 1.39 | 1.46 | 1.68 | 1.71 |
| Ending Date            | 12   | 12   | 12   | 12   | 13   | 12   | 13   | 13   | 13   | 13   | 13   | 13   |
| Ending Time (Hour/Min) | 1540 | 1543 | 1548 | 1553 | 1812 | 1557 | 1842 | 1901 | 1914 | 1857 | 1914 | 1914 |

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

\* = Extreme for the month (last occurrence if more than one)  
T = Trace precipitation amount  
+ = also occurs on earlier date  
FG+ = Heavy fog, visibility .25 miles or less  
BLANK entries denote missing or unreported data

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

## WEATHER NOTATIONS

**RALEIGH/DURHAM, NC**  
**AUGUST 2004**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

| DATE   | SUNSHINE         |                     | CLOUDINESS<br>(OKTAS) |           |            |           | VISIBILITY<br>(MILES) |         | RESERVED |
|--|------------------|---------------------|-----------------------|-----------|------------|-----------|-----------------------|---------|----------|
|  | TOTAL<br>MINUTES | PERCENT<br>POSSIBLE | SR-SS                 |           | MN-MN      |           | MINIMUM               | MAXIMUM |          |
|  |                  |                     | CEILOMETER            | SATELLITE | CEILOMETER | SATELLITE |                       |         |          |
| 01   |                  |                     |                       |           |            |           | 2.50                  | 10.00   |          |
| 02   |                  |                     |                       |           |            |           | .50                   | 10.00   |          |
| 03   |                  |                     |                       |           |            |           | 6.00                  | 10.00   |          |
| 04   |                  |                     |                       |           |            |           | 4.00                  | 6.00    |          |
| 05   |                  |                     |                       |           |            |           | 1.75                  | 10.00   |          |
| 06   |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 07   |                  |                     |                       |           |            |           | 5.00                  | 10.00   |          |
| 08   |                  |                     |                       |           |            |           | 8.00                  | 10.00   |          |
| 09   |                  |                     |                       |           |            |           | 6.00                  | 10.00   |          |
| 10   |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 11   |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 12   |                  |                     |                       |           |            |           | .50                   | 10.00   |          |
| 13   |                  |                     |                       |           |            |           | .75                   | 10.00   |          |
| 14   |                  |                     |                       |           |            |           | 1.00                  | 10.00   |          |
| 15   |                  |                     |                       |           |            |           | 1.25                  | 10.00   |          |
| 16   |                  |                     |                       |           |            |           | .75                   | 10.00   |          |
| 17   |                  |                     |                       |           |            |           | 2.00                  | 10.00   |          |
| 18   |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| 19   |                  |                     |                       |           |            |           | 3.00                  | 9.00    |          |
| 20   |                  |                     |                       |           |            |           | 3.00                  | 7.00    |          |
| 21   |                  |                     |                       |           |            |           | 1.00                  | 10.00   |          |
| 22   |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 23   |                  |                     |                       |           |            |           | 4.00                  | 10.00   |          |
| 24   |                  |                     |                       |           |            |           | 4.00                  | 10.00   |          |
| 25   |                  |                     |                       |           |            |           | 2.00                  | 10.00   |          |
| 26   |                  |                     |                       |           |            |           | .25                   | 10.00   |          |
| 27   |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| 28   |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| 29   |                  |                     |                       |           |            |           | .13                   | 10.00   |          |
| 30   |                  |                     |                       |           |            |           | 1.00                  | 10.00   |          |
| 31   |                  |                     |                       |           |            |           | 4.00                  | 9.00    |          |
| <b>MONTHLY AVGS</b>  |                  |                     |                       |           |            |           | 3.50                  | 9.71    |          |
| <p align="center"><b>SUNSHINE (MINUTES)</b></p> <p>Total:                  Possible:</p> <p align="center">Percent Possible:</p>   |                  |                     |                       |           |            |           |                       |         |          |
| <p align="center"><b>NUMBER OF DAYS WITH:</b></p> <p align="center"><b>SKY CONDITION</b></p> <p align="center">CLR   PTLY CLDY   CLOUDY   MISSING</p> <p align="center">31</p> <p align="center"><b>MINIMUM VISIBILITY (MILES)</b></p> <p align="center">&lt;=0.25      &lt;=3.0      &gt;=7.0</p> <p align="center">2                18             5</p> |                  |                     |                       |           |            |           |                       |         |          |

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

AUGUST 2004

RDU

WBAN # 13722

| HOUR (LST) |           |                     | SATELLITE              |                                    | WEATHER | TEMPERATURE °F     |          |           | RELATIVE HUMIDITY (PCT) | WIND     |             | PRESSURE (INCHES,HG)     |         | HOUR (LST) |           |               | SATELLITE           |                        | WEATHER      | TEMPERATURE °F                     |                    |          | RELATIVE HUMIDITY (PCT) | WIND      |          | PRESSURE (INCHES,HG) |                          |         |           |
|------------|-----------|---------------------|------------------------|------------------------------------|---------|--------------------|----------|-----------|-------------------------|----------|-------------|--------------------------|---------|------------|-----------|---------------|---------------------|------------------------|--------------|------------------------------------|--------------------|----------|-------------------------|-----------|----------|----------------------|--------------------------|---------|-----------|
|            | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) | EFF CLD AMT<br><small>Okta</small> |         | VISIBILITY (MILES) | DRY BULB | DEW POINT |                         | WET BULB | SPEED (MPH) | DIRECTION<br>TENS OF DEG | STATION |            | SEA LEVEL | SKY COVER     | CEILING 100'S OF FT | OBSERVATION TIME (LST) |              | EFF CLD AMT<br><small>Okta</small> | VISIBILITY (MILES) | DRY BULB |                         | DEW POINT | WET BULB | SPEED (MPH)          | DIRECTION<br>TENS OF DEG | STATION | SEA LEVEL |
|            |           |                     |                        |                                    |         |                    |          |           |                         |          |             |                          |         |            |           |               |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
|            |           |                     | SUNRISE: 0523          |                                    | AUG 01  | SUNSET: 1920       |          |           |                         |          |             |                          |         |            |           | SUNRISE: 0528 |                     | AUG 07                 | SUNSET: 1914 |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 01         | FEW       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 01         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 04         | BKN       | 033                 |                        |                                    | 8.00    |                    |          |           |                         |          |             |                          |         | 04         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 07         | OVC       | 005                 |                        |                                    | 7.00    |                    |          |           |                         |          |             |                          |         | 07         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 10         | BKN       | 020                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 10         | FEW       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 13         | BKN       | 045                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 13         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 16         | BKN       | 080                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 16         | BKN       | 065           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 19         | BKN       | 090                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 19         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 22         | SCT       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 22         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
|            |           |                     | SUNRISE: 0524          |                                    | AUG 02  | SUNSET: 1919       |          |           |                         |          |             |                          |         |            |           | SUNRISE: 0529 |                     | AUG 08                 | SUNSET: 1913 |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 01         | SCT       | NC                  |                        |                                    | 9.00    |                    |          |           |                         |          |             |                          |         | 01         | FEW       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 04         | OVC       | 002                 |                        |                                    | 6.00    | BR                 |          |           |                         |          |             |                          |         | 04         | FEW       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 07         | OVC       | 002                 |                        |                                    | 0.50    | FG                 |          |           |                         |          |             |                          |         | 07         | FEW       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 10         | BKN       | 150                 |                        |                                    | 1.50    | -RA BR             |          |           |                         |          |             |                          |         | 10         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 13         | BKN       | 070                 |                        |                                    | 10.00   | -RA                |          |           |                         |          |             |                          |         | 13         | BKN       | 070           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 16         | BKN       | 050                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 16         | BKN       | 150           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 19         | OVC       | 005                 |                        |                                    | 10.00   | -RA                |          |           |                         |          |             |                          |         | 19         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 22         | OVC       | 023                 |                        |                                    | 10.00   | -RA                |          |           |                         |          |             |                          |         | 22         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
|            |           |                     | SUNRISE: 0525          |                                    | AUG 03  | SUNSET: 1918       |          |           |                         |          |             |                          |         |            |           | SUNRISE: 0529 |                     | AUG 09                 | SUNSET: 1912 |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 01         | OVC       | 005                 |                        |                                    | 6.00    | -RA BR             |          |           |                         |          |             |                          |         | 01         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 04         | OVC       | 005                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 04         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 07         | OVC       | 008                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 07         | BKN       | 250           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 10         | BKN       | 012                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 10         | BKN       | 250           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 13         | BKN       | 045                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 13         | BKN       | 150           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 16         | BKN       | 090                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 16         | BKN       | 200           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 19         | CLR       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 19         | BKN       | 200           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 22         | CLR       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 22         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
|            |           |                     | SUNRISE: 0525          |                                    | AUG 04  | SUNSET: 1917       |          |           |                         |          |             |                          |         |            |           | SUNRISE: 0530 |                     | AUG 10                 | SUNSET: 1911 |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 01         | CLR       | NC                  |                        |                                    | 6.00    | BR                 |          |           |                         |          |             |                          |         | 01         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 04         | CLR       | NC                  |                        |                                    | 5.00    | BR                 |          |           |                         |          |             |                          |         | 04         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 07         | CLR       | NC                  |                        |                                    | 4.00    | BR                 |          |           |                         |          |             |                          |         | 07         | BKN       | 150           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 10         | CLR       | NC                  |                        |                                    | 5.00    | HZ                 |          |           |                         |          |             |                          |         | 10         | FEW       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 13         | FEW       | NC                  |                        |                                    | 5.00    | HZ                 |          |           |                         |          |             |                          |         | 13         | BKN       | 100           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 16         | SCT       | NC                  |                        |                                    | 6.00    | HZ                 |          |           |                         |          |             |                          |         | 16         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 19         | FEW       | NC                  |                        |                                    | 5.00    | HZ                 |          |           |                         |          |             |                          |         | 19         | FEW       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 22         | CLR       | NC                  |                        |                                    | 4.00    | HZ                 |          |           |                         |          |             |                          |         | 22         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
|            |           |                     | SUNRISE: 0526          |                                    | AUG 05  | SUNSET: 1916       |          |           |                         |          |             |                          |         |            |           | SUNRISE: 0531 |                     | AUG 11                 | SUNSET: 1910 |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 01         | CLR       | NC                  |                        |                                    | 4.00    | HZ                 |          |           |                         |          |             |                          |         | 01         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 04         | CLR       | NC                  |                        |                                    | 4.00    | BR                 |          |           |                         |          |             |                          |         | 04         | CLR       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 07         | BKN       | 250                 |                        |                                    | 3.00    | BR                 |          |           |                         |          |             |                          |         | 07         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 10         | BKN       | 250                 |                        |                                    | 5.00    | HZ                 |          |           |                         |          |             |                          |         | 10         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 13         | OVC       | 045                 |                        |                                    | 5.00    | +RA BR             |          |           |                         |          |             |                          |         | 13         | BKN       | 060           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 16         | OVC       | 130                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 16         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 19         | OVC       | 060                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 19         | BKN       | 050           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 22         | OVC       | 012                 |                        |                                    | 7.00    | -RA                |          |           |                         |          |             |                          |         | 22         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
|            |           |                     | SUNRISE: 0527          |                                    | AUG 06  | SUNSET: 1915       |          |           |                         |          |             |                          |         |            |           | SUNRISE: 0532 |                     | AUG 12                 | SUNSET: 1909 |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 01         | OVC       | 013                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 01         | SCT       | NC            |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 04         | BKN       | 019                 |                        |                                    | 8.00    |                    |          |           |                         |          |             |                          |         | 04         | BKN       | 100           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 07         | FEW       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 07         | OVC       | 005           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 10         | SCT       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 10         | OVC       | 012           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 13         | BKN       | 070                 |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 13         | OVC       | 100           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 16         | SCT       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 16         | OVC       | 030           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 19         | FEW       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 19         | BKN       | 004           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |
| 22         | CLR       | NC                  |                        |                                    | 10.00   |                    |          |           |                         |          |             |                          |         | 22         | BKN       | 100           |                     |                        |              |                                    |                    |          |                         |           |          |                      |                          |         |           |

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

AUGUST 2004

RDU

WBAN # 13722

| HOUR (LST)                                  |           |                     | SATELLITE              |                                     | WEATHER | TEMPERATURE °F                              |          |           | RELATIVE HUMIDITY (PCT) | WIND     |             | PRESSURE (INCHES, HG)    |         | HOUR (LST) |           |           | SATELLITE           |                        | WEATHER | TEMPERATURE °F                      |                    |          | RELATIVE HUMIDITY (PCT) | WIND      |          | PRESSURE (INCHES, HG) |                          |         |           |
|---|-----------|---------------------|------------------------|-------------------------------------|---------|---|----------|-----------|-------------------------|----------|-------------|--------------------------|---------|------------|-----------|-----------|---------------------|------------------------|---------|-------------------------------------|--------------------|----------|-------------------------|-----------|----------|-----------------------|--------------------------|---------|-----------|
|   | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) | EFF CLD AMT<br><small>Oktas</small> |         | VISIBILITY (MILES)                          | DRY BULB | DEW POINT |                         | WET BULB | SPEED (MPH) | DIRECTION<br>TENS OF DEG | STATION |            | SEA LEVEL | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) |         | EFF CLD AMT<br><small>Oktas</small> | VISIBILITY (MILES) | DRY BULB |                         | DEW POINT | WET BULB | SPEED (MPH)           | DIRECTION<br>TENS OF DEG | STATION | SEA LEVEL |
|   |           |                     |                        |                                     |         |   |          |           |                         |          |             |                          |         |            |           |           |                     |                        |         |                                     |                    |          |                         |           |          |                       |                          |         |           |
| SUNRISE: 0532      AUG 13      SUNSET: 1908 |           |                     |                        |                                     |         | SUNRISE: 0537      AUG 19      SUNSET: 1859 |          |           |                         |          |             |                          |         |            |           |           |                     |                        |         |                                     |                    |          |                         |           |          |                       |                          |         |           |
| 01  | BKN       | 060                 |                        |                                     | 10.00   |   | 68       | 67        | 67                      | 96       | 0           | 00                       | 29.43   | 29.89      | 01        | FEW       | NC                  |                        |         | 9.00                                | 72                 | 70       | 71                      | 94        | 8        | 22                    | 29.60                    | 30.06   |           |
| 04  | OVC       | 006                 |                        |                                     | 5.00    | -RA BR                                      | 69       | 68        | 68                      | 96       | 0           | 00                       | 29.40   | 29.86      | 04        | OVC       | 005                 |                        |         | 4.00                                | BR                 | 72       | 71                      | 71        | 97       | 9                     | 21                       | 29.60   | 30.06     |
| 07  | BKN       | 037                 |                        |                                     | 10.00   |   | 70       | 68        | 69                      | 93       | 0           | 00                       | 29.43   | 29.89      | 07        | OVC       | 003                 |                        |         | 3.00                                | BR                 | 73       | 71                      | 72        | 94       | 8                     | 23                       | 29.62   | 30.08     |
| 10  | OVC       | 014                 |                        |                                     | 10.00   |   | 73       | 70        | 71                      | 90       | 6           | 25                       | 29.48   | 29.95      | 10        | BKN       | 250                 |                        |         | 6.00                                | HZ                 | 83       | 73                      | 76        | 72       | 8                     | 24                       | 29.65   | 30.10     |
| 13  | OVC       | 038                 |                        |                                     | 10.00   |   | 80       | 70        | 73                      | 71       | 8           | 26                       | 29.52   | 29.98      | 13        | BKN       | 040                 |                        |         | 7.00                                |                    | 89       | 71                      | 76        | 55       | 9                     | 23                       | 29.62   | 30.08     |
| 16  | OVC       | 032                 |                        |                                     | 9.00    |   | 79       | 70        | 73                      | 74       | 10          | 22                       | 29.50   | 29.96      | 16        | BKN       | 090                 |                        |         | 7.00                                |                    | 89       | 73                      | 78        | 59       | 8                     | 23                       | 29.59   | 30.05     |
| 19  | OVC       | 017                 |                        |                                     | 1.00    | +TSRA BR                                    | 69       | 68        | 68                      | 96       | 7           | 18                       | 29.56   | 30.03      | 19        | FEW       | NC                  |                        |         | 6.00                                | HZ                 | 83       | 71                      | 75        | 67       | 6                     | 18                       | 29.59   | 30.05     |
| 22  | OVC       | 021                 |                        |                                     | 8.00    |   | 70       | 68        | 69                      | 93       | 0           | 00                       | 29.60   | 30.06      | 22        | CLR       | NC                  |                        |         | 6.00                                | HZ                 | 78       | 70                      | 73        | 76       | 5                     | 24                       | 29.65   | 30.11     |
| SUNRISE: 0533      AUG 14      SUNSET: 1907 |           |                     |                        |                                     |         | SUNRISE: 0538      AUG 20      SUNSET: 1858 |          |           |                         |          |             |                          |         |            |           |           |                     |                        |         |                                     |                    |          |                         |           |          |                       |                          |         |           |
| 01  | BKN       | 110                 |                        |                                     | 5.00    | BR  | 68       | 67        | 67                      | 96       | 0           | 00                       | 29.60   | 30.06      | 01        | CLR       | NC                  |                        |         | 5.00                                | BR                 | 73       | 69                      | 70        | 87       | 6                     | 23                       | 29.64   | 30.10     |
| 04  | OVC       | 090                 |                        |                                     | 5.00    | BR  | 67       | 66        | 66                      | 97       | 6           | 02                       | 29.60   | 30.06      | 04        | CLR       | NC                  |                        |         | 5.00                                | BR                 | 71       | 69                      | 70        | 94       | 5                     | 24                       | 29.63   | 30.09     |
| 07  | OVC       | 075                 |                        |                                     | 3.00    | -RA BR                                      | 69       | 68        | 68                      | 96       | 3           | 06                       | 29.63   | 30.09      | 07        | CLR       | NC                  |                        |         | 3.00                                | BR                 | 74       | 70                      | 71        | 88       | 6                     | 19                       | 29.65   | 30.11     |
| 10  | OVC       | 070                 |                        |                                     | 3.00    | -RA BR                                      | 71       | 69        | 70                      | 94       | 7           | 04                       | 29.67   | 30.13      | 10        | FEW       | NC                  |                        |         | 5.00                                | HZ                 | 84       | 72                      | 76        | 67       | 7                     | 21                       | 29.66   | 30.12     |
| 13  | OVC       | 008                 |                        |                                     | 6.00    | -RA BR                                      | 69       | 68        | 68                      | 96       | 10          | 03                       | 29.61   | 30.07      | 13        | SCT       | NC                  |                        |         | 6.00                                | HZ                 | 89       | 70                      | 76        | 53       | 10                    | 18                       | 29.63   | 30.09     |
| 16  | OVC       | 010                 |                        |                                     | 10.00   |   | 70       | 66        | 67                      | 87       | 8           | 36                       | 29.60   | 30.06      | 16        | SCT       | NC                  |                        |         | 7.00                                |                    | 87       | 69                      | 75        | 55       | 12                    | 19                       | 29.56   | 30.02     |
| 19  | OVC       | 008                 |                        |                                     | 10.00   |   | 67       | 64        | 65                      | 91       | 3           | VR                       | 29.68   | 30.15      | 19        | SCT       | NC                  |                        |         | 6.00                                | HZ                 | 83       | 69                      | 74        | 63       | 6                     | 17                       | 29.54   | 30.00     |
| 22  | OVC       | 007                 |                        |                                     | 6.00    | BR  | 66       | 63        | 64                      | 90       | 5           | 36                       | 29.72   | 30.18      | 22        | CLR       | NC                  |                        |         | 7.00                                |                    | 79       | 71                      | 74        | 77       | 9                     | 20                       | 29.56   | 30.02     |
| SUNRISE: 0534      AUG 15      SUNSET: 1905 |           |                     |                        |                                     |         | SUNRISE: 0539      AUG 21      SUNSET: 1857 |          |           |                         |          |             |                          |         |            |           |           |                     |                        |         |                                     |                    |          |                         |           |          |                       |                          |         |           |
| 01  | OVC       | 005                 |                        |                                     | 7.00    |   | 65       | 63        | 64                      | 93       | 5           | 36                       | 29.73   | 30.20      | 01        | SCT       | NC                  |                        |         | 7.00                                |                    | 77       | 74                      | 75        | 90       | 9                     | 21                       | 29.54   | 29.99     |
| 04  | OVC       | 005                 |                        |                                     | 7.00    |   | 64       | 62        | 63                      | 93       | 7           | 07                       | 29.73   | 30.19      | 04        | BKN       | 100                 |                        |         | 5.00                                | BR                 | 76       | 73                      | 74        | 91       | 9                     | 21                       | 29.48   | 29.94     |
| 07  | OVC       | 003                 |                        |                                     | 1.50    | BR  | 65       | 63        | 64                      | 93       | 3           | 05                       | 29.76   | 30.22      | 07        | BKN       | 075                 |                        |         | 4.00                                | BR                 | 77       | 73                      | 74        | 88       | 15                    | 23                       | 29.51   | 29.97     |
| 10  | OVC       | 008                 |                        |                                     | 2.00    | RA BR                                       | 65       | 64        | 64                      | 97       | 8           | 09                       | 29.79   | 30.26      | 10        | BKN       | 100                 |                        |         | 10.00                               |                    | 82       | 72                      | 75        | 72       | 13                    | 24                       | 29.49   | 29.95     |
| 13  | OVC       | 007                 |                        |                                     | 6.00    | -RA BR                                      | 68       | 66        | 67                      | 93       | 6           | 03                       | 29.78   | 30.24      | 13        | BKN       | 100                 |                        |         | 9.00                                |                    | 85       | 73                      | 77        | 68       | 18                    | 23                       | 29.46   | 29.92     |
| 16  | OVC       | 004                 |                        |                                     | 2.00    | RA BR                                       | 68       | 66        | 67                      | 93       | 8           | 03                       | 29.74   | 30.21      | 16        | BKN       | 040                 |                        |         | 10.00                               |                    | 86       | 72                      | 76        | 63       | 12                    | 23                       | 29.40   | 29.86     |
| 19  | OVC       | 004                 |                        |                                     | 10.00   |   | 68       | 66        | 67                      | 93       | 6           | 03                       | 29.73   | 30.19      | 19        | OVC       | 035                 |                        |         | 10.00                               |                    | 77       | 68                      | 71        | 74       | 10                    | 35                       | 29.46   | 29.92     |
| 22  | OVC       | 030                 |                        |                                     | 4.00    | -RA BR                                      | 67       | 66        | 66                      | 97       | 5           | 04                       | 29.73   | 30.19      | 22        | OVC       | 080                 |                        |         | 10.00                               |                    | 72       | 70                      | 71        | 94       | 0                     | 00                       | 29.51   | 29.97     |
| SUNRISE: 0535      AUG 16      SUNSET: 1904 |           |                     |                        |                                     |         | SUNRISE: 0540      AUG 22      SUNSET: 1855 |          |           |                         |          |             |                          |         |            |           |           |                     |                        |         |                                     |                    |          |                         |           |          |                       |                          |         |           |
| 01  | OVC       | 019                 |                        |                                     | 2.00    | DZ BR                                       | 67       | 66        | 66                      | 97       | 3           | VR                       | 29.70   | 30.16      | 01        | BKN       | 040                 |                        |         | 9.00                                |                    | 71       | 70                      | 70        | 96       | 0                     | 00                       | 29.53   | 29.99     |
| 04  | OVC       | 003                 |                        |                                     | 2.00    | -DZ BR                                      | 67       | 66        | 66                      | 97       | 5           | 31                       | 29.70   | 30.16      | 04        | OVC       | 024                 |                        |         | 10.00                               |                    | 69       | 66                      | 67        | 90       | 7                     | 03                       | 29.53   | 29.99     |
| 07  | OVC       | 005                 |                        |                                     | 0.75    | -DZ BR                                      | 68       | 66        | 67                      | 93       | 0           | 00                       | 29.74   | 30.20      | 07        | BKN       | 046                 |                        |         | 10.00                               |                    | 69       | 64                      | 66        | 84       | 8                     | 04                       | 29.60   | 30.06     |
| 10  | OVC       | 015                 |                        |                                     | 10.00   |   | 72       | 66        | 68                      | 82       | 5           | VR                       | 29.75   | 30.21      | 10        | BKN       | 050                 |                        |         | 10.00                               |                    | 74       | 59                      | 65        | 60       | 10                    | 05                       | 29.63   | 30.09     |
| 13  | BKN       | 027                 |                        |                                     | 10.00   |   | 77       | 67        | 70                      | 71       | 6           | 05                       | 29.72   | 30.18      | 13        | BKN       | 150                 |                        |         | 10.00                               |                    | 79       | 60                      | 67        | 52       | 8                     | 10                       | 29.60   | 30.06     |
| 16  | SCT       | NC                  |                        |                                     | 10.00   |   | 82       | 66        | 71                      | 58       | 5           | 04                       | 29.70   | 30.16      | 16        | BKN       | 200                 |                        |         | 10.00                               |                    | 80       | 59                      | 67        | 49       | 5                     | 06                       | 29.57   | 30.03     |
| 19  | SCT       | NC                  |                        |                                     | 10.00   |   | 74       | 68        | 70                      | 82       | 0           | 00                       | 29.69   | 30.15      | 19        | OVC       | 200                 |                        |         | 10.00                               |                    | 73       | 65                      | 68        | 76       | 3                     | 03                       | 29.56   | 30.02     |
| 22  | CLR       | NC                  |                        |                                     | 9.00    |   | 69       | 67        | 68                      | 93       | 3           | 11                       | 29.71   | 30.17      | 22        | OVC       | 200                 |                        |         | 10.00                               |                    | 68       | 64                      | 66        | 87       | 0                     | 00                       | 29.59   | 30.05     |
| SUNRISE: 0536      AUG 17      SUNSET: 1903 |           |                     |                        |                                     |         | SUNRISE: 0540      AUG 23      SUNSET: 1854 |          |           |                         |          |             |                          |         |            |           |           |                     |                        |         |                                     |                    |          |                         |           |          |                       |                          |         |           |
| 01  | SCT       | NC                  |                        |                                     | 5.00    | BR  | 67       | 66        | 66                      | 97       | 0           | 00                       | 29.70   | 30.16      | 01        | BKN       | 200                 |                        |         | 6.00                                | BR                 | 66       | 64                      | 65        | 93       | 0                     | 00                       | 29.57   | 30.03     |
| 04  | SCT       | NC                  |                        |                                     | 3.00    | BR  | 65       | 64        | 64                      | 97       | 0           | 00                       | 29.69   | 30.16      | 04        | SCT       | NC                  |                        |         | 6.00                                | BR                 | 67       | 65                      | 66        | 93       | 5                     | 11                       | 29.56   | 30.02     |
| 07  | SCT       | NC                  |                        |                                     | 3.00    | BR  | 67       | 66        | 66                      | 97       | 3           | 15                       | 29.72   | 30.18      | 07        | SCT       | NC                  |                        |         | 7.00                                |                    | 68       | 65                      | 66        | 90       | 0                     | 00                       | 29.59   | 30.06     |
| 10  | BKN       | 045                 |                        |                                     | 9.00    |   | 77       | 68        | 71                      | 74       | 0           | 00                       | 29.72   | 30.18      | 10        | BKN       | 180                 |                        |         | 10.00                               |                    | 77       | 67                      | 70        | 71       | 5                     | VR                       | 29.62   | 30.08     |
| 13  | BKN       | 036                 |                        |                                     | 10.00   |   | 83       | 67        | 72                      | 59       | 8           | 21                       | 29.66   | 30.12      | 13        | BKN       | 050                 |                        |         | 9.00                                |                    | 82       | 64                      | 70        | 55       | 5                     | VR                       | 29.58   | 30.04     |
| 16  | BKN       | 200                 |                        |                                     | 10.00   |   | 84       | 67        | 73                      | 57       | 9           | 14                       | 29.60   | 30.06      | 16        | BKN       | 055                 |                        |         | 10.00                               |                    | 83       | 66                      | 72        | 57       | 6                     | 10                       | 29.55   | 30.01     |
| 19  | BKN       | 055                 |                        |                                     | 10.00   |   | 77       | 67        | 70                      | 71       | 0           | 00                       | 29.61   | 30.07      | 19        | BKN       | 250                 |                        |         | 9.00                                |                    | 77       | 66                      | 70        | 69       | 5                     | 14                       | 29.56   | 30.02     |
| 22  | BKN       | 095                 |                        |                                     | 10.00   |   | 73       | 69        | 70                      | 87       | 0           | 00                       | 29.61   | 30.08      | 22        | OVC       | 250                 |                        |         | 5.00                                | BR                 | 69       | 67                      | 68        | 93       | 0                     | 00                       | 29.60   | 30.06     |
| SUNRISE: 0536      AUG 18      SUNSET: 1902 |           |                     |                        |                                     |         | SUNRISE: 0541      AUG 24      SUNSET: 1853 |          |           |                         |          |             |                          |         |            |           |           |                     |                        |         |                                     |                    |          |                         |           |          |                       |                          |         |           |
| 01  | BKN       | 065                 |                        |                                     | 10.00   |   | 73       | 70        | 71                      | 90       | 9           | 19                       | 29.61   | 30.06      | 01        | BKN       | 250                 |                        |         | 7.00                                |                    | 68       | 64                      | 66        | 87       | 5                     | 10                       | 29.61   | 30.07     |
| 04  | OVC       | 008                 |                        |                                     | 6.00    | BR  | 73       | 70        | 71                      | 90       | 12          | 22                       | 29.59   | 30.05      | 04        | SCT       | NC                  |                        |         | 5.00                                | BR                 | 67       | 64                      | 65        | 91       | 3                     | 14                       | 29.62   | 30.08     |
| 07  | OVC       | 007                 |                        |                                     | 3.00    | BR  | 73       | 71        | 72                      | 94       | 5           | 24                       | 29.62   | 30.08      | 07        | BKN       | 250                 |                        |         | 7.00                                |                    | 67       | 64                      | 65        | 91       | 0                     | 00                       | 29.66   | 30.13     |
| 10  | OVC       | 050                 |                        |                                     | 5.00    | HZ  | 79       | 71        | 74                      | 77       | 10          | 20                       | 29.62   | 30.07      | 10        | SCT       | NC                  |                        |         | 10.00                               |                    | 78       | 64                      | 69        | 62       | 5                     | VR                       | 29.69   | 30.15     |
| 13  | BKN       | 028                 |                        |                                     | 9.00    |   | 83       | 71        | 75                      | 67       | 9           | 21                       | 29.57   | 30.03      | 13        | SCT       | NC                  |                        |         | 10.00                               |                    | 83       | 62                      | 70        | 49       | 5                     | VR                       | 29.68   | 30.13     |
| 16  | BKN       | 060                 |                        |                                     | 9.00    |   | 83       | 71        | 75                      | 67       | 9           | 19                       | 29.53   | 29.99      | 16        | SCT       | NC                  |                        |         | 9.00                                |                    | 83       | 62                      | 70        | 49       | 7                     | 08                       | 29.64   |           |

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

AUGUST 2004

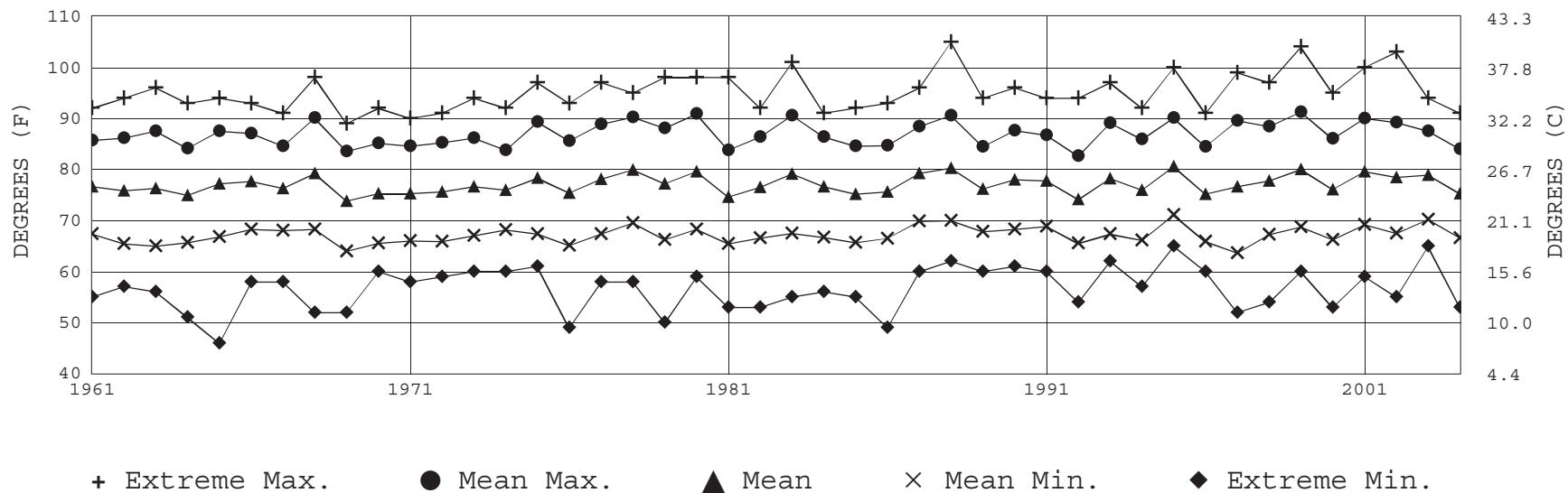
RDU

WBAN # 13722

| HOUR (LST)                                  | SKY COVER |     | CEILING<br>100'S OFF | SATELLITE                 |                     | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F |           |          | RELATIVE<br>HUMIDITY (PCT) | WIND        |                          | PRESSURE<br>(INCHES,HG) |              | HOUR (LST)  | SKY COVER |     | CEILING<br>100'S OFF | SATELLITE                 |                     | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F |           |          | WIND                       |             | PRESSURE<br>(INCHES,HG)  |         |              |       |
|---|-----------|-----|----------------------|---------------------------|---------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|-------------|--------------------------|-------------------------|--------------|---|-----------|-----|----------------------|---------------------------|---------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|-------------|--------------------------|---------|--------------|-------|
|   |           |     |                      | OBSERVATION<br>TIME (LST) | EFF CLD AMT<br>Okta |                       |         | DRY BULB          | DEW POINT | WET BULB |                            | SPEED (MPH) | DIRECTION<br>TENS OF DEG | STATION                 | SEA<br>LEVEL |   |           |     |                      | OBSERVATION<br>TIME (LST) | EFF CLD AMT<br>Okta |                       |         | DRY BULB          | DEW POINT | WET BULB | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) | DIRECTION<br>TENS OF DEG | STATION | SEA<br>LEVEL |       |
|   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |                         |              |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| SUNRISE: 0542      AUG 25      SUNSET: 1852 |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |                         |              |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 01  | CLR       | NC  |                      |                           |                     | 5.00                  | BR      | 68                | 65        | 66       | 90                         | 5           | VR                       | 29.71                   | 30.16        | 01  | BKN       | 150 |                      |                           |                     |                       | 6.00    | TS BR             | 73        | 72       | 72                         | 96          | 8                        | 21      | 29.57        | 30.03 |
| 04  | CLR       | NC  |                      |                           |                     | 4.00                  | BR      | 65                | 63        | 64       | 93                         | 0           | 00                       | 29.72                   | 30.18        | 04  | BKN       | 180 |                      |                           |                     |                       | 9.00    |                   | 72        | 70       | 71                         | 94          | 0                        | 00      | 29.55        | 30.01 |
| 07  | CLR       | NC  |                      |                           |                     | 3.00                  | BR      | 67                | 65        | 66       | 93                         | 6           | 07                       | 29.75                   | 30.21        | 07  | BKN       | 250 |                      |                           |                     |                       | 6.00    | BR                | 72        | 70       | 71                         | 94          | 0                        | 00      | 29.58        | 30.05 |
| 10  | BKN       | 050 |                      |                           |                     | 7.00                  |         | 76                | 64        | 68       | 67                         | 8           | 04                       | 29.78                   | 30.24        | 10  | BKN       | 250 |                      |                           |                     |                       | 7.00    |                   | 82        | 70       | 74                         | 67          | 3                        | VR      | 29.64        | 30.10 |
| 13  | BKN       | 250 |                      |                           |                     | 10.00                 |         | 80                | 60        | 68       | 51                         | 8           | 06                       | 29.76                   | 30.22        | 13  | OVC       | 180 |                      |                           |                     |                       | 7.00    |                   | 85        | 69       | 74                         | 59          | 3                        | 04      | 29.63        | 30.09 |
| 16  | BKN       | 048 |                      |                           |                     | 10.00                 |         | 83                | 62        | 70       | 49                         | 9           | 08                       | 29.73                   | 30.19        | 16  | OVC       | 130 |                      |                           |                     |                       | 5.00    | HZ                | 81        | 74       | 76                         | 79          | 7                        | 25      | 29.60        | 30.06 |
| 19  | CLR       | NC  |                      |                           |                     | 10.00                 |         | 75                | 65        | 69       | 71                         | 6           | 06                       | 29.72                   | 30.18        | 19  | BKN       | 130 |                      |                           |                     |                       | 6.00    | HZ                | 77        | 72       | 74                         | 85          | 5                        | 26      | 29.63        | 30.09 |
| 22  | CLR       | NC  |                      |                           |                     | 10.00                 |         | 72                | 65        | 68       | 79                         | 8           | 07                       | 29.75                   | 30.21        | 22  | OVC       | 130 |                      |                           |                     |                       | 4.00    | BR                | 74        | 72       | 73                         | 94          | 0                        | 00      | 29.66        | 30.12 |
| SUNRISE: 0543      AUG 26      SUNSET: 1850 |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |                         |              |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 01  | FEW       | NC  |                      |                           |                     | 10.00                 |         | 69                | 66        | 67       | 90                         | 3           | 06                       | 29.77                   | 30.23        | 3-HOURLY OBSERVATION NOTES<br>Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8,<br>SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.<br>Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.<br>NC= No ceiling detected.<br>& = Original observation contained additional weather elements.<br>See page 3 for additional notes. |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 04  | SCT       | NC  |                      |                           |                     | 4.00                  | BR      | 65                | 64        | 64       | 97                         | 6           | 06                       | 29.74                   | 30.20        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 07  | VV        | 001 |                      |                           |                     | 0.25                  | FG      | 68                | 68        | 68       | 100                        | 5           | 07                       | 29.76                   | 30.22        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 10  | OVC       | 012 |                      |                           |                     | 8.00                  |         | 74                | 68        | 70       | 82                         | 5           | 05                       | 29.79                   | 30.25        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 13  | BKN       | 200 |                      |                           |                     | 10.00                 |         | 82                | 65        | 71       | 56                         | 8           | 05                       | 29.73                   | 30.19        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 16  | SCT       | NC  |                      |                           |                     | 10.00                 |         | 83                | 66        | 72       | 57                         | 9           | 07                       | 29.69                   | 30.15        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 19  | BKN       | 070 |                      |                           |                     | 10.00                 |         | 76                | 66        | 70       | 72                         | 3           | 03                       | 29.70                   | 30.16        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 22  | OVC       | 065 |                      |                           |                     | 10.00                 |         | 76                | 66        | 70       | 72                         | 7           | 10                       | 29.71                   | 30.18        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| SUNRISE: 0543      AUG 27      SUNSET: 1849 |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |                         |              |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 01  | BKN       | 080 |                      |                           |                     | 9.00                  |         | 72                | 69        | 70       | 91                         | 3           | 05                       | 29.70                   | 30.16        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 04  | BKN       | 012 |                      |                           |                     | 5.00                  | BR      | 71                | 69        | 70       | 94                         | 5           | 03                       | 29.69                   | 30.15        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 07  | OVC       | 070 |                      |                           |                     | 3.00                  | BR      | 71                | 69        | 70       | 94                         | 6           | 02                       | 29.73                   | 30.19        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 10  | BKN       | 040 |                      |                           |                     | 10.00                 |         | 82                | 71        | 75       | 69                         | 9           | 05                       | 29.72                   | 30.18        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 13  | BKN       | 055 |                      |                           |                     | 10.00                 |         | 86                | 70        | 75       | 59                         | 8           | 06                       | 29.68                   | 30.14        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 16  | SCT       | NC  |                      |                           |                     | 10.00                 |         | 86                | 68        | 74       | 55                         | 7           | 05                       | 29.63                   | 30.09        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 19  | CLR       | NC  |                      |                           |                     | 10.00                 |         | 78                | 67        | 71       | 69                         | 3           | 04                       | 29.62                   | 30.09        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 22  | CLR       | NC  |                      |                           |                     | 10.00                 |         | 73                | 69        | 70       | 87                         | 0           | 00                       | 29.64                   | 30.09        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| SUNRISE: 0544      AUG 28      SUNSET: 1847 |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |                         |              |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 01  | CLR       | NC  |                      |                           |                     | 10.00                 |         | 70                | 67        | 68       | 90                         | 0           | 00                       | 29.63                   | 30.09        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 04  | CLR       | NC  |                      |                           |                     | 5.00                  | BR      | 69                | 67        | 68       | 93                         | 0           | 00                       | 29.59                   | 30.05        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 07  | CLR       | NC  |                      |                           |                     | 4.00                  | BR      | 70                | 68        | 69       | 93                         | 0           | 00                       | 29.62                   | 30.08        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 10  | BKN       | 030 |                      |                           |                     | 10.00                 |         | 82                | 69        | 73       | 65                         | 5           | VR                       | 29.60                   | 30.06        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 13  | BKN       | 045 |                      |                           |                     | 10.00                 |         | 87                | 66        | 73       | 50                         | 3           | VR                       | 29.58                   | 30.03        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 16  | SCT       | NC  |                      |                           |                     | 10.00                 |         | 88                | 66        | 73       | 48                         | 8           | 06                       | 29.51                   | 29.97        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 19  | SCT       | NC  |                      |                           |                     | 10.00                 |         | 80                | 64        | 70       | 58                         | 5           | 13                       | 29.47                   | 29.93        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 22  | SCT       | NC  |                      |                           |                     | 10.00                 |         | 71                | 67        | 68       | 87                         | 0           | 00                       | 29.53                   | 29.99        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| SUNRISE: 0545      AUG 29      SUNSET: 1846 |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |                         |              |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 01  | SCT       | NC  |                      |                           |                     | 10.00                 |         | 74                | 69        | 71       | 85                         | 7           | 12                       | 29.51                   | 29.97        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 04  | FEW       | NC  |                      |                           |                     | 7.00                  |         | 71                | 69        | 70       | 94                         | 0           | 00                       | 29.49                   | 29.94        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 07  | OVC       | 003 |                      |                           |                     | 0.13                  | FG      | 73                | 72        | 72       | 96                         | 0           | 00                       | 29.50                   | 29.96        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 10  | BKN       | 017 |                      |                           |                     | 10.00                 |         | 80                | 73        | 75       | 79                         | 9           | 10                       | 29.51                   | 29.97        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 13  | OVC       | 050 |                      |                           |                     | 10.00                 | -RA     | 80                | 74        | 76       | 82                         | 7           | 02                       | 29.47                   | 29.93        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 16  | OVC       | 048 |                      |                           |                     | 7.00                  |         | 76                | 72        | 73       | 88                         | 9           | 07                       | 29.44                   | 29.90        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 19  | OVC       | 030 |                      |                           |                     | 7.00                  | -RA     | 75                | 74        | 74       | 96                         | 7           | 04                       | 29.41                   | 29.87        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 22  | BKN       | 100 |                      |                           |                     | 10.00                 |         | 75                | 72        | 73       | 90                         | 12          | 08                       | 29.42                   | 29.88        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| SUNRISE: 0546      AUG 30      SUNSET: 1845 |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |                         |              |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 01  | OVC       | 050 |                      |                           |                     | 10.00                 |         | 74                | 72        | 73       | 94                         | 13          | 07                       | 29.36                   | 29.82        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 04  | OVC       | 009 |                      |                           |                     | 2.50                  | +RA BR  | 73                | 72        | 72       | 96                         | 15          | 05                       | 29.26                   | 29.72        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 07  | OVC       | 006 |                      |                           |                     | 2.00                  | -RA BR  | 74                | 72        | 73       | 94                         | 18          | 06                       | 29.18                   | 29.64        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 10  | OVC       | 011 |                      |                           |                     | 1.00                  | RA BR   | 74                | 73        | 73       | 97                         | 13          | 30                       | 29.22                   | 29.68        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 13  | OVC       | 018 |                      |                           |                     | 9.00                  | -RA     | 73                | 71        | 72       | 94                         | 14          | 29                       | 29.36                   | 29.82        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 16  | OVC       | 050 |                      |                           |                     | 10.00                 |         | 80                | 71        | 74       | 74                         | 12          | 30                       | 29.43                   | 29.89        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 19  | BKN       | 130 |                      |                           |                     | 9.00                  |         | 75                | 72        | 73       | 90                         | 3           | 24                       | 29.47                   | 29.93        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |
| 22  | BKN       | 130 |                      |                           |                     | 10.00                 |         | 75                | 72        | 73       | 90                         | 0           | 00                       | 29.53                   | 30.00        |   |           |     |                      |                           |                     |                       |         |                   |           |          |                            |             |                          |         |              |       |

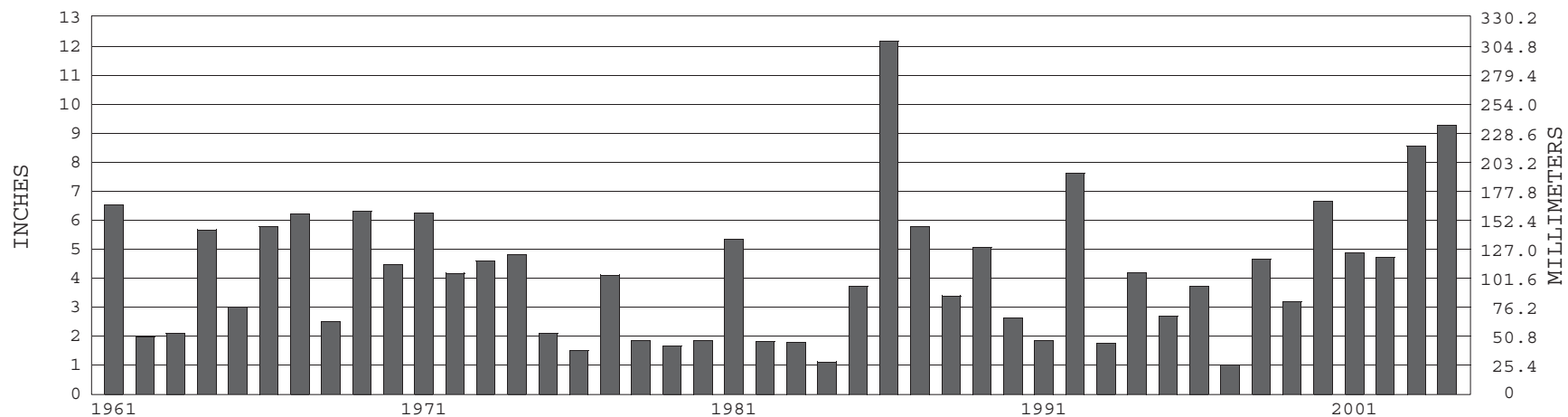


# RALEIGH/DURHAM, NC AUGUST TEMPERATURES



Long-Term (1961-2004) Mean: 77.1    1971-2000 Normal: 77.2

# RALEIGH/DURHAM, NC AUGUST PRECIPITATION



Long-Term (1961-2004) Mean Monthly Total: 4.21

1971-2000 Normal: 3.78



AUGUST 2004

RALEIGH/DURHAM, NC

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.*

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