

**U. S. DEPARTMENT OF COMMERCE**

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**WEATHER BUREAU**

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**Upper Air Average Values of Temperature,  
Pressure, and Relative Humidity  
Over the United States and Alaska**



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## Introduction

The upper air temperature, pressure and relative humidity averages presented in this publication were prepared in answer to requests for such data, received from the armed services, manufacturers and designers of aircraft, airlines, institutions of learning, and various scientific organizations. Although the averages are subject to the limitations of a relatively short period of record, it is felt that the data presented will be of value to those persons and organizations desiring this type of information.

Data used in this tabulation were obtained by means of radiosondes. The observations were taken between 2200 and 0100, 75th meridian time, except those prior to November 1939, which were taken at 0300, 75th meridian time. Observations at Lakehurst, San Diego, and Seattle were taken by the Navy. Data obtained by means of kites and airplanes are not included in this summary because of the difference in scheduled time of observations, with resultant varying diurnal effects.

Temperature is shown in centigrade degrees, pressure in millibars, relative humidity in percent, altitudes and station elevations in units of 0.98 geodynamic meter above sea level. (In the region represented by these data, 0.98 geodynamic meter is very nearly equal to one geometric meter, or 39.4 inches.)

Tabular matter is shown for all months for all standard levels, temperature-height graphs for the months of January, April, July and October, and charts depicting the temperature and pressure distribution patterns for these same mid-months of each season, for 1500, 3000, 5000, 10,000, 13,000, and 16,000 meters.\*

The average values are direct arithmetical averages and are not computed

for any level having less than 25 observations, nor for any case in which all observations were taken in the same year. The number of temperature observations available at the surface, 5, 10, 15, and 18 kilometers is shown for each station for each month. The number of pressure observations is similar to those for temperature and accordingly is not shown. The number of relative humidity observations is shown for each month for the surface, 5, 7, and 9 kilometers.

Data are presented for 37 stations, 6 of which began taking radiosonde observations during 1938, 20 during 1939, and 11 during 1940. Observations taken through December 1943 were used for all stations. Summarized values are not shown for stations inaugurating their radiosonde program subsequent to 1940.

\*These charts were drawn primarily for the data shown in tabular form and were not adjusted to represent long time normal values. Another publication entitled "Normal Weather Maps, Northern Hemisphere Upper Level" (for limited distribution) was recently prepared through joint cooperation of the Army, Navy, and Weather Bureau, and presents normal charts of temperature and pressure for selected levels for the Northern Hemisphere.

BENJAMIN RATNER

AVERAGE TEMPERATURES °C.

Albuquerque, N. Mex.

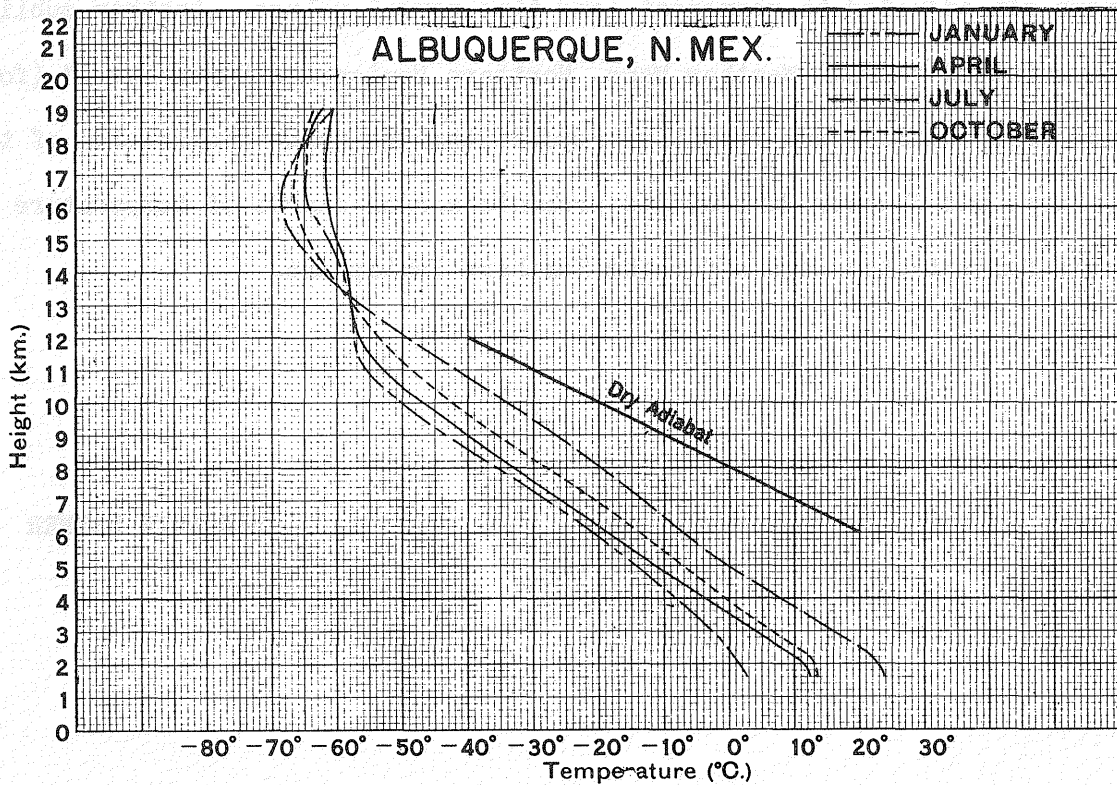
Elevation: 1,620 meters, m.s.l.

Period of Record: July 1939-July 1940

March 1941-December 1943

| Alt.(km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface   | 2.6   | 4.2   | 7.8   | 12.3  | 17.7  | 22.2  | 23.8  | 22.5  | 19.7  | 13.1  | 7.7   | 3.1   |
| 2.0       | 1.4   | 3.8   | 7.5   | 11.3  | 17.0  | 21.7  | 22.7  | 21.3  | 19.1  | 13.0  | 8.4   | 3.4   |
| 2.5       | -0.2  | 0.4   | 3.9   | 7.8   | 13.6  | 18.3  | 19.3  | 18.3  | 15.9  | 9.8   | 5.5   | 1.3   |
| 3.0       | -2.9  | -3.0  | 0.0   | 3.9   | 9.8   | 14.4  | 15.5  | 14.8  | 12.2  | 5.9   | 1.2   | -1.2  |
| 4         | -8.3  | -9.5  | -7.6  | -4.0  | 1.7   | 6.2   | 7.6   | 7.0   | 4.6   | -1.3  | -3.5  | -6.3  |
| 5         | -14.2 | -16.2 | -14.6 | -11.4 | -6.5  | -2.0  | -0.1  | -0.5  | -2.2  | -7.7  | -9.6  | -12.5 |
| 6         | -21.0 | -22.6 | -21.4 | -18.4 | -13.8 | -9.4  | -7.1  | -6.9  | -8.2  | -13.9 | -16.4 | -19.1 |
| 7         | -28.2 | -29.4 | -28.7 | -25.4 | -20.9 | -16.1 | -13.2 | -12.7 | -14.6 | -21.1 | -23.6 | -26.8 |
| 8         | -35.9 | -36.7 | -36.1 | -32.8 | -28.1 | -23.3 | -19.8 | -19.4 | -21.7 | -28.1 | -31.2 | -34.2 |
| 9         | -43.4 | -43.4 | -43.3 | -39.9 | -35.8 | -30.6 | -26.8 | -26.2 | -29.2 | -35.4 | -38.9 | -41.2 |
| 10        | -50.3 | -49.8 | -50.2 | -46.8 | -43.7 | -38.4 | -34.3 | -34.1 | -36.6 | -42.3 | -45.9 | -47.5 |
| 11        | -55.9 | -54.2 | -55.3 | -52.5 | -50.4 | -45.8 | -42.1 | -41.7 | -43.7 | -48.5 | -51.6 | -52.2 |
| 12        | -57.4 | -55.9 | -58.1 | -56.5 | -56.3 | -51.8 | -49.4 | -49.3 | -50.3 | -53.6 | -56.1 | -56.5 |
| 13        | -57.7 | -56.9 | -58.2 | -57.7 | -59.4 | -56.7 | -56.2 | -56.8 | -56.4 | -57.8 | -59.3 | -58.9 |
| 14        | -59.4 | -58.3 | -58.8 | -58.4 | -60.7 | -59.9 | -59.9 | -62.2 | -63.4 | -61.6 | -61.9 | -60.2 |
| 15        | -61.3 | -60.9 | -60.5 | -60.0 | -61.1 | -62.7 | -66.6 | -68.1 | -65.8 | -64.3 | -64.1 | -62.7 |
| 16        | -64.6 | -63.2 | -61.8 | -61.2 | -62.0 | -65.1 | -68.7 | -69.7 | -68.6 | -66.3 | -65.7 | -64.7 |
| 17        | -64.6 | -63.4 | -62.5 | -61.8 | -62.6 | -65.1 | -67.6 | -67.3 | -68.8 | -66.4 | -66.1 | -64.9 |
| 18        | -64.8 | --    | -61.5 | -61.5 | -62.3 | -65.5 | -64.7 | -64.0 | -66.9 | -65.1 | -66.8 | -64.2 |
| 19        | --    | --    | --    | -60.6 | -60.7 | -63.0 | -62.1 | -62.1 | -63.8 | -63.8 | --    | --    |
| 20        | --    | --    | --    | --    | -59.3 | -60.4 | --    | --    | --    | --    | --    | --    |

|         | Number of Observations |    |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 93                     | 85 | 109 | 119 | 123 | 120 | 117 | 122 | 120 | 119 | 120 | 121 |
| 5       | 93                     | 83 | 108 | 115 | 120 | 118 | 115 | 120 | 117 | 116 | 116 | 118 |
| 10      | 85                     | 75 | 100 | 108 | 114 | 119 | 106 | 109 | 109 | 104 | 109 | 102 |
| 15      | 68                     | 50 | 66  | 93  | 104 | 108 | 86  | 96  | 87  | 73  | 78  | 69  |
| 18      | 25                     | -- | 29  | 59  | 74  | 90  | 68  | 64  | 53  | 50  | 28  | 30  |



AVERAGE PRESSURES (Mbs.)

Elevation: 1,620 meters, m.s.l.

ALBUQUERQUE, N. MEX.

7

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 839  | 837  | 835  | 835  | 836 | 837  | 840  | 840  | 839   | 839  | 841  | 839  |
| 2.0      | 801  | 799  | 798  | 798  | 799 | 801  | 805  | 804  | 803   | 802  | 803  | 801  |
| 2.5      | 752  | 751  | 750  | 751  | 753 | 755  | 759  | 758  | 757   | 755  | 755  | 753  |
| 3.0      | 707  | 705  | 705  | 707  | 710 | 712  | 716  | 715  | 714   | 711  | 711  | 707  |
| 4        | 622  | 620  | 621  | 624  | 628 | 632  | 636  | 634  | 632   | 628  | 627  | 623  |
| 5        | 546  | 544  | 546  | 549  | 554 | 558  | 562  | 561  | 559   | 554  | 552  | 548  |
| 6        | 478  | 476  | 477  | 481  | 486 | 491  | 496  | 495  | 492   | 486  | 484  | 480  |
| 7        | 417  | 415  | 416  | 420  | 426 | 431  | 435  | 435  | 432   | 425  | 423  | 419  |
| 8        | 362  | 360  | 361  | 365  | 371 | 377  | 381  | 380  | 378   | 371  | 368  | 364  |
| 9        | 312  | 311  | 312  | 316  | 322 | 328  | 332  | 331  | 329   | 321  | 319  | 314  |
| 10       | 269  | 267  | 268  | 272  | 279 | 284  | 289  | 288  | 286   | 278  | 275  | 271  |
| 11       | 230  | 229  | 230  | 234  | 240 | 245  | 250  | 249  | 247   | 240  | 237  | 233  |
| 12       | 197  | 196  | 196  | 200  | 205 | 211  | 215  | 215  | 212   | 205  | 203  | 199  |
| 13       | 168  | 168  | 167  | 171  | 175 | 180  | 184  | 184  | 182   | 176  | 173  | 170  |
| 14       | 143  | 143  | 143  | 146  | 149 | 154  | 157  | 156  | 155   | 150  | 147  | 145  |
| 15       | 122  | 122  | 122  | 124  | 127 | 131  | 133  | 133  | 132   | 127  | 125  | 123  |
| 16       | 104  | 104  | 104  | 106  | 108 | 111  | 113  | 113  | 112   | 108  | 106  | 105  |
| 17       | 89   | 88   | 88   | 90   | 92  | 94   | 95   | 95   | 94    | 92   | 90   | 89   |
| 18       | 76   | --   | 75   | 77   | 78  | 80   | 81   | 80   | 80    | 78   | 77   | 76   |
| 19       | --   | --   | --   | 65   | 67  | 68   | 69   | 68   | 68    | --   | --   | --   |
| 20       | --   | --   | --   | --   | 57  | 58   | --   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 49   | 44   | 40   | 40   | 34  | 33   | 43   | 51   | 46    | 46   | 43   | 58   |
| 2.0      | 49   | 43   | 39   | 39   | 31  | 32   | 41   | 47   | 44    | 43   | 42   | 56   |
| 2.5      | 49   | 43   | 40   | 41   | 31  | 32   | 41   | 48   | 44    | 44   | 42   | 53   |
| 3.0      | 50   | 45   | 41   | 44   | 33  | 33   | 44   | 51   | 48    | 47   | 42   | 52   |
| 4        | 49   | 45   | 44   | 50   | 37  | 39   | 53   | 64   | 57    | 51   | 42   | 46   |
| 5        | 46   | 43   | 45   | 53   | 42  | 47   | 63   | 73   | 61    | 49   | 38   | 43   |
| 6        | 43   | 40   | 41   | 51   | 41  | 50   | 66   | 71   | 53    | 43   | 35   | 41   |
| 7        | 40   | 39   | 40   | 45   | 37  | 47   | 59   | 62   | 45    | 39   | 36   | 40   |
| 8        | 36   | 39   | 37   | 40   | 37  | 42   | 54   | 55   | 44    | 39   | 35   | 31   |
| 9        | --   | --   | --   | --   | 37  | 42   | 51   | 52   | 40    | 35   | 34   | --   |
| 10       | --   | --   | --   | --   | --  | 46   | 53   | 54   | 45    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |     |     |     |     |     |     |     |     |     |     |
|---------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 93 | 84 | 109 | 119 | 124 | 120 | 116 | 124 | 120 | 120 | 120 | 123 |
| 5       | 91 | 78 | 105 | 113 | 119 | 118 | 113 | 122 | 115 | 117 | 115 | 120 |
| 7       | 89 | 71 | 101 | 107 | 116 | 117 | 111 | 115 | 109 | 110 | 86  | 85  |
| 9       | -- | -- | --  | --  | 38  | 73  | 101 | 102 | 78  | 48  | 25  | --  |

AVERAGE TEMPERATURES °C.

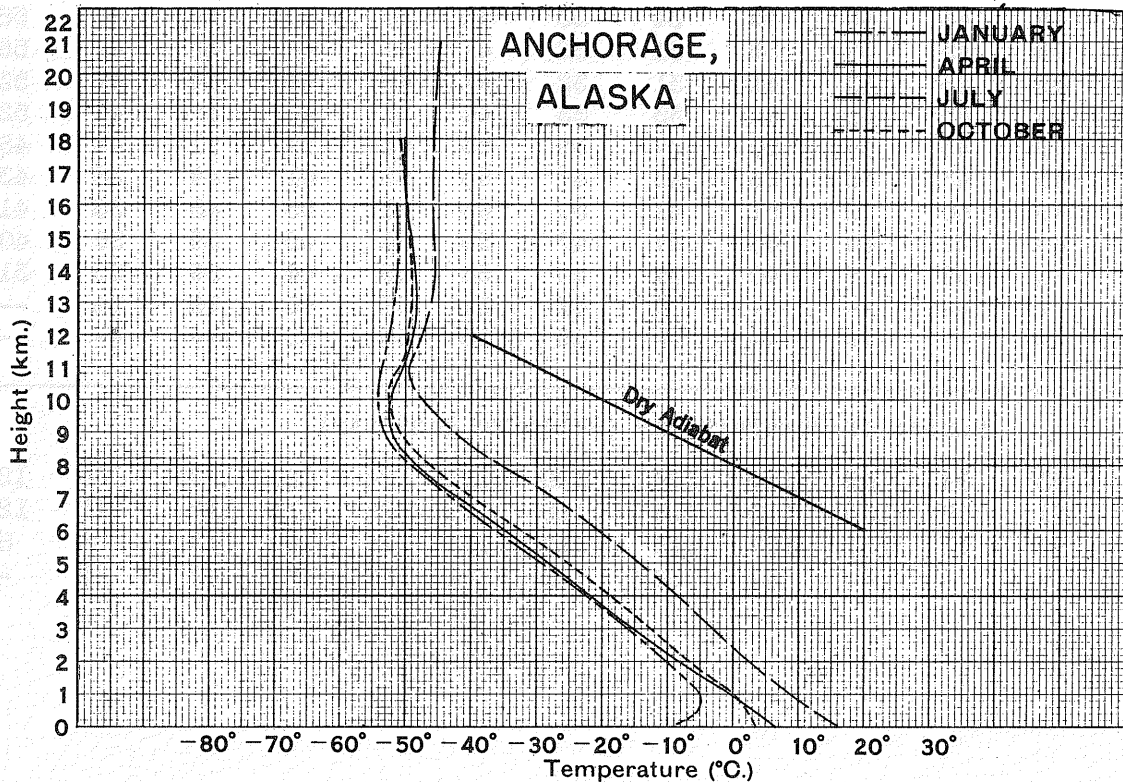
Anchorage, Alaska

Elevation: 42 meters, m.s.l.

Period of Record: October 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -8.2  | -1.8  | -0.6  | 6.0   | 11.5  | 15.5  | 16.0  | 15.6  | 11.3  | 3.1   | -5.0  | -8.2  |
| 0.5        | -5.2  | -1.5  | -2.6  | 3.2   | 8.3   | 12.4  | 12.6  | 13.2  | 8.9   | 2.1   | -4.2  | -6.2  |
| 1.0        | -5.1  | -3.2  | -5.0  | -0.5  | 4.3   | 8.9   | 9.1   | 9.7   | 5.8   | -0.3  | -5.0  | -6.4  |
| 1.5        | -7.5  | -6.0  | -8.4  | -4.5  | 0.5   | 5.3   | 5.6   | 6.4   | 2.4   | -3.4  | -7.4  | -8.9  |
| 2.0        | -10.5 | -9.0  | -11.4 | -8.4  | -3.3  | 1.9   | 2.5   | 3.1   | -0.8  | -6.7  | -10.0 | -12.0 |
| 2.5        | -13.4 | -11.9 | -14.3 | -11.8 | -6.6  | -1.2  | -0.2  | 0.1   | -3.7  | -9.6  | -12.9 | -15.0 |
| 3.0        | -16.4 | -14.9 | -17.4 | -15.2 | -9.8  | -4.2  | -2.7  | -2.4  | -6.3  | -12.6 | -15.9 | -18.1 |
| 4          | -22.8 | -21.0 | -23.7 | -22.1 | -15.9 | -10.1 | -8.0  | -7.8  | -11.9 | -18.9 | -22.4 | -24.5 |
| 5          | -29.5 | -27.5 | -30.8 | -28.5 | -22.1 | -16.7 | -14.1 | -13.7 | -18.1 | -25.5 | -29.2 | -30.7 |
| 6          | -36.4 | -34.2 | -37.5 | -35.1 | -28.6 | -23.1 | -20.6 | -20.2 | -24.6 | -32.4 | -35.8 | -37.2 |
| 7          | -43.1 | -40.8 | -43.9 | -42.0 | -35.6 | -30.2 | -28.2 | -27.3 | -31.1 | -39.8 | -42.6 | -43.9 |
| 8          | -49.3 | -47.0 | -48.8 | -48.3 | -42.4 | -37.5 | -35.3 | -35.4 | -38.3 | -46.3 | -48.3 | -49.8 |
| 9          | -53.4 | -51.5 | -52.0 | -52.2 | -48.7 | -45.3 | -42.3 | -41.5 | -44.6 | -51.0 | -52.7 | -53.3 |
| 10         | -54.3 | -53.4 | -53.2 | -52.2 | -51.9 | -50.3 | -47.9 | -47.4 | -48.5 | -52.7 | -53.0 | -54.4 |
| 11         | -53.8 | -52.0 | -53.0 | -50.4 | -51.4 | -50.6 | -49.6 | -50.7 | -49.6 | -50.6 | -52.2 | -52.8 |
| 12         | -52.7 | -50.1 | -52.0 | -48.9 | -49.3 | -48.6 | -47.5 | -50.3 | -50.1 | -49.9 | -51.1 | -51.9 |
| 13         | -51.9 | -49.1 | -50.5 | -48.5 | -48.2 | -47.2 | -46.1 | -49.6 | -50.2 | -49.6 | -50.5 | -51.0 |
| 14         | -51.4 | -49.0 | -50.6 | -48.7 | -48.0 | -46.2 | -45.9 | -49.7 | -50.8 | -49.7 | -50.1 | -50.8 |
| 15         | -51.3 | -49.0 | -50.8 | -49.2 | -48.0 | -46.3 | -45.9 | -49.2 | -51.5 | -49.6 | -50.0 | -51.6 |
| 16         | -51.4 | -49.6 | -51.4 | -49.9 | -47.9 | -46.3 | -45.7 | -48.9 | -51.8 | -49.8 | -50.1 | -51.2 |
| 17         | --    | -49.3 | -51.4 | -50.4 | -47.4 | -46.2 | -45.6 | -48.5 | -51.7 | -50.6 | -51.2 | --    |
| 18         | --    | --    | --    | -50.2 | -47.1 | -46.0 | -45.5 | -47.9 | --    | -51.1 | --    | --    |
| 19         | --    | --    | --    | --    | -47.0 | -45.8 | -45.5 | --    | --    | --    | --    | --    |
| 20         | --    | --    | --    | --    | --    | -45.7 | -45.3 | --    | --    | --    | --    | --    |
| 21         | --    | --    | --    | --    | --    | --    | -45.0 | --    | --    | --    | --    | --    |

|         | Number of Observations |    |    |    |    |    |    |    |    |     |     |     |
|---------|------------------------|----|----|----|----|----|----|----|----|-----|-----|-----|
| Surface | 93                     | 83 | 93 | 90 | 90 | 88 | 93 | 93 | 91 | 119 | 119 | 124 |
| 5       | 91                     | 83 | 87 | 90 | 83 | 84 | 87 | 86 | 88 | 114 | 111 | 118 |
| 10      | 82                     | 75 | 79 | 86 | 71 | 72 | 83 | 76 | 74 | 92  | 92  | 106 |
| 15      | 51                     | 54 | 56 | 59 | 56 | 60 | 70 | 49 | 46 | 62  | 48  | 56  |
| 18      | --                     | -- | -- | 31 | 34 | 43 | 51 | 25 | -- | 28  | --  | --  |





AVERAGE PRESSURES (Mbs.)

Elevation: 42 meters, m.s.l.

ANCHORAGE, ALASKA

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 999  | 1001 | 1001 | 998  | 1008 | 1007 | 1009 | 1007 | 1004  | 995  | 999  | 995  |
| 0.5      | 943  | 945  | 944  | 944  | 954  | 954  | 955  | 954  | 950   | 941  | 943  | 939  |
| 1.0      | 884  | 887  | 887  | 887  | 897  | 898  | 900  | 899  | 894   | 884  | 885  | 881  |
| 1.5      | 829  | 832  | 831  | 833  | 843  | 845  | 847  | 846  | 841   | 830  | 830  | 825  |
| 2.0      | 777  | 780  | 779  | 781  | 792  | 795  | 796  | 795  | 790   | 779  | 778  | 774  |
| 2.5      | 728  | 731  | 730  | 732  | 743  | 747  | 749  | 748  | 742   | 730  | 729  | 724  |
| 3.0      | 682  | 685  | 683  | 685  | 697  | 701  | 703  | 702  | 696   | 684  | 683  | 678  |
| 4        | 596  | 599  | 597  | 599  | 611  | 617  | 619  | 619  | 612   | 599  | 597  | 592  |
| 5        | 519  | 522  | 520  | 523  | 535  | 541  | 544  | 543  | 536   | 523  | 520  | 515  |
| 6        | 450  | 454  | 451  | 454  | 466  | 473  | 476  | 476  | 468   | 455  | 451  | 447  |
| 7        | 389  | 393  | 389  | 392  | 404  | 412  | 415  | 415  | 408   | 394  | 390  | 386  |
| 8        | 335  | 339  | 334  | 337  | 350  | 357  | 360  | 360  | 353   | 340  | 335  | 332  |
| 9        | 287  | 291  | 287  | 289  | 300  | 308  | 311  | 311  | 305   | 292  | 288  | 284  |
| 10       | 246  | 249  | 246  | 248  | 257  | 265  | 268  | 268  | 262   | 250  | 247  | 244  |
| 11       | 210  | 213  | 211  | 213  | 221  | 228  | 230  | 231  | 226   | 215  | 212  | 209  |
| 12       | 180  | 183  | 181  | 182  | 189  | 195  | 198  | 198  | 194   | 184  | 181  | 179  |
| 13       | 154  | 157  | 155  | 157  | 162  | 168  | 170  | 170  | 166   | 158  | 156  | 153  |
| 14       | 132  | 135  | 133  | 135  | 140  | 144  | 146  | 146  | 142   | 135  | 133  | 131  |
| 15       | 114  | 116  | 114  | 116  | 120  | 124  | 126  | 125  | 122   | 116  | 115  | 113  |
| 16       | 98   | 99   | 98   | 99   | 103  | 107  | 108  | 107  | 105   | 100  | 98   | 97   |
| 17       | --   | 85   | 84   | 85   | 89   | 92   | 93   | 92   | 90    | 85   | 84   | --   |
| 18       | --   | --   | --   | 73   | 76   | 79   | 80   | 79   | --    | 73   | --   | --   |
| 19       | --   | --   | --   | --   | 66   | 68   | 69   | --   | --    | --   | --   | --   |
| 20       | --   | --   | --   | --   | --   | 58   | 60   | --   | --    | --   | --   | --   |
| 21       | --   | --   | --   | --   | --   | --   | 52   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 81   | 73   | 65   | 61   | 57  | 63   | 67   | 73   | 75    | 76   | 79   | 85   |
| 0.5      | 74   | 69   | 64   | 60   | 59  | 61   | 69   | 72   | 71    | 70   | 71   | 78   |
| 1.0      | 68   | 67   | 64   | 62   | 61  | 64   | 74   | 75   | 73    | 69   | 67   | 72   |
| 1.5      | 67   | 67   | 65   | 65   | 65  | 69   | 80   | 80   | 77    | 72   | 67   | 72   |
| 2.0      | 67   | 68   | 67   | 69   | 70  | 73   | 84   | 81   | 81    | 76   | 68   | 73   |
| 2.5      | 66   | 67   | 67   | 71   | 71  | 75   | 82   | 79   | 80    | 77   | 66   | 72   |
| 3.0      | 65   | 67   | 67   | 72   | 72  | 75   | 80   | 75   | 77    | 76   | 66   | 70   |
| 4        | 63   | 66   | 64   | 72   | 71  | 75   | 73   | 70   | 70    | 72   | 65   | 67   |
| 5        | 61   | 64   | 64   | 71   | 69  | 73   | 66   | 66   | 67    | 69   | 65   | 68   |
| 6        | 60   | 62   | 63   | 72   | 67  | 67   | 62   | 62   | 65    | 65   | 58   | 65   |
| 7        | --   | 55   | --   | --   | 61  | 65   | 60   | 59   | 64    | 59   | --   | --   |
| 8        | --   | --   | --   | --   | --  | 65   | 56   | 62   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |    |    |    |    |     |     |     |
|---------|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| Surface | 93 | 83 | 93 | 89 | 92 | 88 | 93 | 93 | 91 | 120 | 119 | 124 |
| 5       | 83 | 80 | 74 | 86 | 84 | 74 | 87 | 81 | 86 | 110 | 95  | 96  |
| 7       | -- | 29 | -- | -- | 51 | 69 | 86 | 74 | 70 | 30  | --  | --  |

AVERAGE TEMPERATURES °C.

Atlanta, Ga.

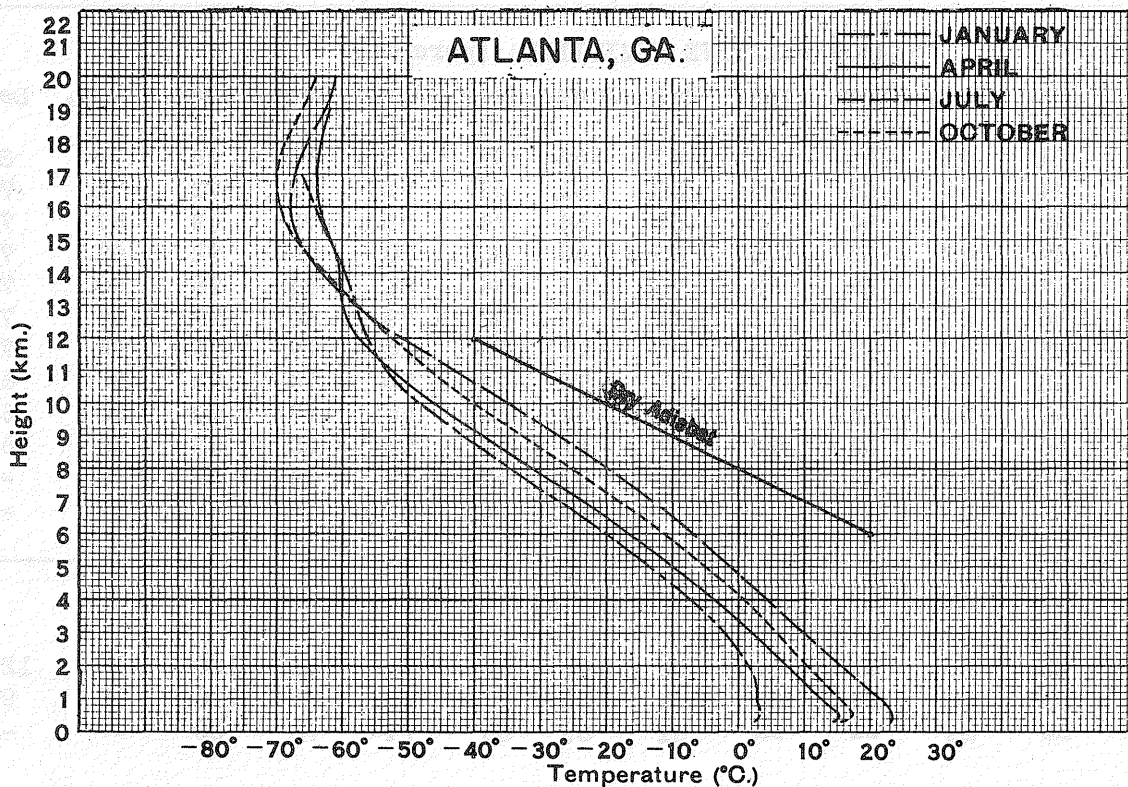
Elevation: 300 meters, m.s.l.

Period of Record: July 1939-July 1940

February 1941-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 2.3   | 4.2   | 7.8   | 14.4  | 18.8  | 22.8  | 23.1  | 23.0  | 20.6  | 15.5  | 8.3   | 5.7   |
| 0.5        | 3.2   | 4.9   | 8.4   | 15.4  | 20.1  | 23.4  | 23.5  | 23.5  | 21.7  | 17.4  | 10.6  | 6.9   |
| 1.0        | 2.9   | 3.4   | 6.7   | 12.8  | 17.5  | 21.1  | 21.8  | 21.5  | 19.5  | 15.5  | 8.9   | 6.7   |
| 1.5        | 2.7   | 2.2   | 4.7   | 9.9   | 14.3  | 17.9  | 18.6  | 18.4  | 16.6  | 13.0  | 7.1   | 6.0   |
| 2.0        | 1.7   | 0.6   | 2.6   | 7.2   | 11.0  | 14.7  | 15.6  | 15.4  | 13.9  | 10.7  | 5.4   | 4.8   |
| 2.5        | -0.1  | -1.3  | 0.8   | 4.7   | 8.0   | 11.6  | 12.7  | 12.6  | 11.4  | 8.4   | 3.4   | 3.2   |
| 3.0        | -2.0  | -3.4  | -1.6  | 2.1   | 5.1   | 8.6   | 9.8   | 9.7   | 8.9   | 5.9   | 1.1   | 0.8   |
| 4          | -7.3  | -8.7  | -6.9  | -3.5  | -0.2  | 3.0   | 4.3   | 4.2   | 3.5   | 0.8   | -4.0  | -4.7  |
| 5          | -13.6 | -15.2 | -13.2 | -10.0 | -6.3  | -2.6  | -1.2  | -1.0  | -1.9  | -5.0  | -10.0 | -10.8 |
| 6          | -20.2 | -21.8 | -20.2 | -16.8 | -13.0 | -8.5  | -6.8  | -6.6  | -8.0  | -11.3 | -16.6 | -17.2 |
| 7          | -27.3 | -28.3 | -27.2 | -24.0 | -20.1 | -15.0 | -13.2 | -12.9 | -14.6 | -18.1 | -23.9 | -24.3 |
| 8          | -34.8 | -35.1 | -34.5 | -31.4 | -27.5 | -21.9 | -20.0 | -19.7 | -21.6 | -25.1 | -31.3 | -31.5 |
| 9          | -42.2 | -42.3 | -41.8 | -38.7 | -34.9 | -29.0 | -27.1 | -26.9 | -29.0 | -32.4 | -38.4 | -38.9 |
| 10         | -48.5 | -48.2 | -48.6 | -46.2 | -42.5 | -36.8 | -34.7 | -34.4 | -36.8 | -39.5 | -45.2 | -45.0 |
| 11         | -53.6 | -52.7 | -54.4 | -52.7 | -49.7 | -44.6 | -42.8 | -42.0 | -44.0 | -46.3 | -51.0 | -50.4 |
| 12         | -56.3 | -55.4 | -57.8 | -57.6 | -55.9 | -52.0 | -51.0 | -49.4 | -51.0 | -52.5 | -55.7 | -55.8 |
| 13         | -57.8 | -56.6 | -58.3 | -60.0 | -60.3 | -58.6 | -58.2 | -56.5 | -57.3 | -58.0 | -59.5 | -58.8 |
| 14         | -59.6 | -58.8 | -60.0 | -60.3 | -62.1 | -63.1 | -63.4 | -62.7 | -62.9 | -62.8 | -62.5 | -62.1 |
| 15         | -62.0 | -61.1 | -62.2 | -61.9 | -62.3 | -65.7 | -66.7 | -67.3 | -67.1 | -67.0 | -65.2 | -65.2 |
| 16         | -64.0 | -63.3 | -64.0 | -63.5 | -63.3 | -67.4 | -68.1 | -69.2 | -69.3 | -69.4 | -67.1 | -66.6 |
| 17         | -66.1 | -65.0 | -65.0 | -63.9 | -63.8 | -67.7 | -67.1 | -67.6 | -69.6 | -70.0 | -67.6 | -67.0 |
| 18         | --    | --    | -64.2 | -63.5 | -62.8 | -66.3 | -65.1 | -65.3 | -67.4 | -68.4 | -66.7 | --    |
| 19         | --    | --    | --    | -61.8 | -61.2 | -63.8 | -62.6 | -62.7 | -65.4 | -66.4 | --    | --    |
| 20         | --    | --    | --    | --    | --    | -60.9 | -61.1 | -61.0 | -63.3 | -64.0 | --    | --    |
| 21         | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    |
| 22         | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    | --    |

|         | Number of Observations |    |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 93                     | 95 | 124 | 120 | 124 | 115 | 131 | 123 | 119 | 123 | 119 | 124 |
| 5       | 90                     | 89 | 118 | 114 | 122 | 113 | 127 | 119 | 113 | 121 | 117 | 118 |
| 10      | 85                     | 75 | 102 | 110 | 112 | 108 | 123 | 112 | 103 | 108 | 106 | 110 |
| 15      | 59                     | 48 | 73  | 82  | 99  | 100 | 114 | 107 | 94  | 97  | 79  | 62  |
| 18      | --                     | -- | 30  | 46  | 70  | 70  | 89  | 74  | 68  | 70  | 46  | --  |



Elevation: 300 meters, m.s.l. AVERAGE PRESSURES (Mbs.)

ATLANTA, GA.

11

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 985  | 983  | 982  | 983  | 982 | 982  | 983  | 982  | 984   | 984  | 986  | 984  |
| 0.5      | 961  | 959  | 959  | 960  | 960 | 960  | 962  | 960  | 962   | 961  | 963  | 961  |
| 1.0      | 904  | 902  | 903  | 905  | 906 | 906  | 907  | 907  | 908   | 906  | 907  | 904  |
| 1.5      | 850  | 848  | 849  | 852  | 854 | 855  | 857  | 856  | 857   | 854  | 854  | 851  |
| 2.0      | 798  | 797  | 798  | 802  | 804 | 806  | 808  | 807  | 807   | 805  | 803  | 800  |
| 2.5      | 750  | 749  | 750  | 754  | 757 | 760  | 761  | 760  | 761   | 758  | 755  | 752  |
| 3.0      | 704  | 703  | 705  | 709  | 712 | 716  | 717  | 716  | 716   | 713  | 710  | 707  |
| 4        | 620  | 619  | 621  | 626  | 630 | 634  | 635  | 635  | 634   | 630  | 626  | 623  |
| 5        | 545  | 543  | 546  | 551  | 555 | 560  | 562  | 561  | 560   | 556  | 551  | 548  |
| 6        | 477  | 475  | 478  | 483  | 488 | 493  | 495  | 494  | 493   | 489  | 483  | 481  |
| 7        | 416  | 414  | 417  | 422  | 427 | 432  | 435  | 434  | 433   | 428  | 422  | 420  |
| 8        | 361  | 359  | 362  | 367  | 372 | 378  | 380  | 380  | 379   | 374  | 367  | 365  |
| 9        | 312  | 310  | 313  | 318  | 323 | 329  | 331  | 331  | 330   | 325  | 318  | 316  |
| 10       | 269  | 267  | 269  | 275  | 279 | 286  | 288  | 288  | 286   | 282  | 275  | 273  |
| 11       | 231  | 230  | 231  | 236  | 240 | 247  | 249  | 249  | 247   | 243  | 236  | 235  |
| 12       | 197  | 196  | 197  | 202  | 206 | 212  | 214  | 214  | 213   | 209  | 202  | 201  |
| 13       | 168  | 168  | 168  | 172  | 176 | 181  | 183  | 184  | 182   | 179  | 172  | 169  |
| 14       | 143  | 143  | 144  | 146  | 149 | 154  | 156  | 156  | 155   | 152  | 147  | 145  |
| 15       | 122  | 122  | 122  | 125  | 127 | 131  | 133  | 133  | 132   | 129  | 125  | 123  |
| 16       | 104  | 103  | 104  | 106  | 108 | 111  | 112  | 112  | 112   | 110  | 106  | 105  |
| 17       | 88   | 88   | 88   | 90   | 92  | 94   | 95   | 95   | 94    | 93   | 90   | 88   |
| 18       | --   | --   | 75   | 77   | 78  | 80   | 81   | 80   | 80    | 78   | 76   | --   |
| 19       | --   | --   | --   | 65   | 67  | 68   | 69   | 69   | 68    | 67   | --   | --   |
| 20       | --   | --   | --   | --   | --  | 57   | 58   | 59   | 57    | 56   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 76   | 70   | 74   | 67   | 69  | 80   | 87   | 85   | 78    | 77   | 73   | 76   |
| 0.5      | 72   | 67   | 69   | 61   | 62  | 74   | 79   | 77   | 68    | 65   | 64   | 72   |
| 1.0      | 68   | 64   | 66   | 59   | 59  | 72   | 75   | 75   | 68    | 64   | 59   | 64   |
| 1.5      | 58   | 62   | 63   | 58   | 61  | 73   | 75   | 75   | 71    | 64   | 56   | 56   |
| 2.0      | 49   | 59   | 58   | 56   | 62  | 73   | 74   | 74   | 68    | 56   | 50   | 49   |
| 2.5      | 47   | 56   | 52   | 55   | 60  | 69   | 73   | 71   | 61    | 51   | 45   | 45   |
| 3.0      | 46   | 52   | 48   | 52   | 55  | 66   | 70   | 70   | 55    | 44   | 42   | 42   |
| 4        | 43   | 46   | 43   | 48   | 47  | 61   | 66   | 64   | 48    | 38   | 38   | 39   |
| 5        | 40   | 45   | 43   | 45   | 44  | 57   | 60   | 61   | 44    | 35   | 33   | 37   |
| 6        | 39   | 43   | 42   | 42   | 41  | 54   | 56   | 55   | 40    | 34   | 36   | 35   |
| 7        | 38   | 42   | 41   | 41   | 40  | 50   | 52   | 51   | 38    | 34   | 36   | 34   |
| 8        | 38   | 44   | 40   | 40   | 39  | 48   | 50   | 49   | 36    | 34   | 37   | 33   |
| 9        | --   | --   | 41   | 39   | 39  | 47   | 49   | 47   | 31    | 35   | 35   | 33   |
| 10       | --   | --   | --   | --   | --  | 48   | 48   | 48   | 40    | 36   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |     |     |     |     |     |     |     |     |     |     |
|---------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 93 | 95 | 124 | 120 | 124 | 114 | 131 | 123 | 119 | 124 | 119 | 124 |
| 5       | 89 | 86 | 117 | 114 | 119 | 112 | 124 | 114 | 110 | 115 | 117 | 114 |
| 7       | 85 | 82 | 105 | 112 | 112 | 110 | 122 | 113 | 101 | 113 | 109 | 109 |
| 9       | -- | -- | 25  | 49  | 79  | 101 | 116 | 111 | 93  | 87  | 32  | 33  |

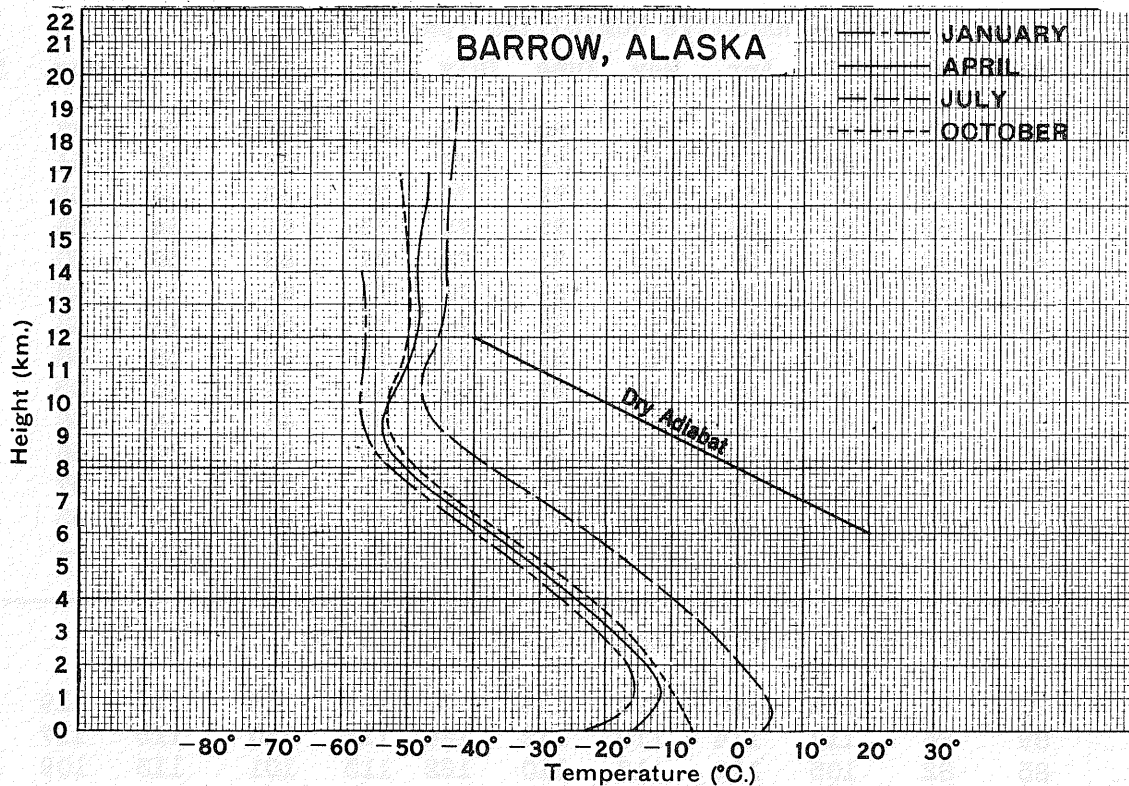
AVERAGE TEMPERATURES °C.

Barrow, Alaska Period of Record: September 1940-December 1942  
 Elevation: 8 meters, m.s.l. March-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.   | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| Surface    | -22.5 | -23.2 | -28.2 | -15.8 | -4.3  | 2.1   | 3.9   | 3.7   | -0.5  | -6.8  | -12.4  | -21.1 |
| 0.5        | -17.8 | -18.7 | -23.4 | -13.7 | -5.5  | 3.4   | 5.5   | 4.1   | -2.0  | -7.8  | -12.3  | -18.8 |
| 1.0        | -15.9 | -16.2 | -20.9 | -11.5 | -4.1  | 3.7   | 4.7   | 3.6   | -3.1  | -9.0  | -12.1  | -16.9 |
| 1.5        | -15.6 | -16.5 | -20.6 | -11.9 | -5.2  | 2.1   | 2.9   | 1.8   | -4.6  | -10.3 | -13.6  | -17.3 |
| 2.0        | -16.9 | -17.8 | -21.7 | -13.5 | -7.6  | -0.2  | 0.7   | -0.4  | -6.7  | -12.2 | -15.5  | -18.7 |
| 2.5        | -18.8 | -19.8 | -23.5 | -16.0 | -10.3 | -2.9  | -1.6  | -2.7  | -9.2  | -14.5 | -18.1  | -20.7 |
| 3.0        | -21.1 | -22.4 | -25.7 | -18.7 | -13.1 | -5.8  | -4.2  | -5.4  | -11.4 | -17.2 | -20.5  | -23.3 |
| 4          | -26.9 | -28.1 | -31.2 | -24.7 | -19.2 | -11.8 | -9.8  | -11.0 | -17.3 | -22.9 | -26.7  | -29.4 |
| 5          | -33.4 | -34.3 | -37.4 | -30.8 | -25.3 | -18.4 | -16.2 | -17.0 | -23.5 | -29.0 | -32.5  | -36.0 |
| 6          | -40.1 | -40.8 | -43.5 | -37.5 | -32.1 | -25.2 | -23.1 | -23.7 | -30.2 | -35.8 | -39.1  | -42.5 |
| 7          | -46.7 | -46.7 | -48.9 | -44.4 | -39.1 | -32.4 | -30.1 | -30.6 | -37.0 | -42.7 | -45.6  | -48.7 |
| 8          | -52.4 | -50.9 | -52.6 | -50.5 | -46.0 | -39.8 | -37.3 | -37.6 | -43.8 | -48.9 | -51.6  | -53.8 |
| 9          | -56.1 | -52.3 | -53.3 | -53.9 | -51.0 | -46.3 | -44.0 | -44.6 | -49.5 | -52.9 | -55.1  | -56.5 |
| 10         | -57.2 | -50.4 | -51.6 | -52.8 | -51.4 | -50.0 | -47.9 | -50.0 | -52.2 | -53.0 | -55.2  | -57.1 |
| 11         | -56.8 | -48.5 | -49.9 | -50.4 | -49.0 | -49.5 | -47.9 | -50.1 | -50.8 | -51.1 | -54.4  | -55.8 |
| 12         | -56.5 | -47.4 | -49.3 | -48.8 | -47.3 | -47.2 | -45.4 | -47.8 | -49.6 | -50.1 | -52.8  | -55.0 |
| 13         | -56.5 | -46.9 | -49.1 | -48.5 | -46.5 | -45.8 | -44.4 | -46.5 | -48.6 | -49.9 | -52.0  | -54.9 |
| 14         | -57.2 | -46.5 | -48.9 | -48.4 | -46.2 | -45.4 | -44.2 | -46.1 | -48.8 | -50.0 | -52.00 | -55.1 |
| 15         | --    | --    | -49.1 | -48.3 | -46.0 | -45.2 | -44.1 | -46.1 | -49.1 | -50.3 | -51.8  | -55.6 |
| 16         | --    | --    | --    | -47.7 | -45.8 | -44.8 | -43.8 | -45.8 | -49.1 | -50.9 | -51.8  | --    |
| 17         | --    | --    | --    | -47.1 | -45.3 | -44.5 | -43.6 | -45.8 | -49.5 | -51.6 | --     | --    |
| 18         | --    | --    | --    | --    | -44.9 | -44.1 | -43.0 | -45.5 | --    | --    | --     | --    |
| 19         | --    | --    | --    | --    | -44.6 | -43.5 | -42.9 | --    | --    | --    | --     | --    |

Number of Observations

|         |    |    |    |    |    |    |    |    |    |     |    |    |
|---------|----|----|----|----|----|----|----|----|----|-----|----|----|
| surface | 62 | 56 | 71 | 89 | 93 | 89 | 93 | 75 | 73 | 115 | 91 | 69 |
| 5       | 61 | 56 | 70 | 87 | 91 | 84 | 90 | 71 | 70 | 113 | 91 | 68 |
| 10      | 55 | 49 | 61 | 82 | 81 | 73 | 83 | 61 | 62 | 100 | 80 | 66 |
| 15      | -- | -- | 25 | 56 | 67 | 59 | 67 | 48 | 41 | 55  | 44 | 34 |
| 18      | -- | -- | -- | -- | 55 | 42 | 40 | 32 | -- | --  | -- | -- |



AVERAGE PRESSURES (Mbs.)

Elevation: 8 meters, m.s.l.

BARROW, ALASKA

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1018 | 1020 | 1023 | 1015 | 1017 | 1014 | 1010 | 1012 | 1012  | 1009 | 1013 | 1012 |
| 0.5      | 953  | 954  | 956  | 952  | 955  | 954  | 951  | 952  | 951   | 947  | 950  | 947  |
| 1.0      | 891  | 892  | 893  | 891  | 896  | 897  | 894  | 895  | 893   | 888  | 889  | 885  |
| 1.5      | 834  | 835  | 834  | 835  | 841  | 843  | 841  | 842  | 838   | 832  | 833  | 828  |
| 2.0      | 780  | 781  | 780  | 782  | 789  | 792  | 790  | 791  | 786   | 780  | 780  | 774  |
| 2.5      | 729  | 730  | 728  | 732  | 739  | 744  | 742  | 743  | 737   | 730  | 729  | 724  |
| 3.0      | 682  | 682  | 680  | 684  | 692  | 698  | 697  | 697  | 691   | 683  | 682  | 676  |
| 4        | 594  | 594  | 591  | 597  | 606  | 614  | 613  | 613  | 606   | 597  | 594  | 589  |
| 5        | 516  | 516  | 513  | 520  | 530  | 538  | 538  | 538  | 529   | 520  | 517  | 511  |
| 6        | 447  | 447  | 443  | 451  | 460  | 470  | 470  | 470  | 461   | 452  | 448  | 442  |
| 7        | 385  | 385  | 381  | 389  | 399  | 408  | 409  | 409  | 400   | 390  | 386  | 380  |
| 8        | 331  | 331  | 326  | 334  | 344  | 353  | 355  | 355  | 345   | 335  | 331  | 325  |
| 9        | 283  | 283  | 280  | 286  | 295  | 305  | 307  | 306  | 297   | 288  | 283  | 278  |
| 10       | 242  | 242  | 240  | 245  | 253  | 262  | 264  | 263  | 255   | 246  | 242  | 238  |
| 11       | 207  | 208  | 206  | 211  | 217  | 225  | 227  | 226  | 219   | 211  | 207  | 203  |
| 12       | 176  | 179  | 176  | 181  | 186  | 193  | 195  | 194  | 188   | 181  | 177  | 174  |
| 13       | 150  | 154  | 152  | 155  | 160  | 166  | 168  | 167  | 161   | 155  | 152  | 148  |
| 14       | 129  | 133  | 130  | 133  | 138  | 143  | 144  | 143  | 139   | 133  | 130  | 127  |
| 15       | --   | --   | 113  | 115  | 119  | 123  | 124  | 123  | 119   | 114  | 112  | 109  |
| 16       | --   | --   | --   | 99   | 102  | 106  | 107  | 106  | 102   | 98   | 96   | --   |
| 17       | --   | --   | --   | 85   | 88   | 91   | 92   | 92   | 88    | 84   | --   | --   |
| 18       | --   | --   | --   | --   | 76   | 78   | 79   | 79   | --    | --   | --   | --   |
| 19       | --   | --   | --   | --   | 65   | 68   | 69   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 89   | 92   | 93   | 91   | 92  | 89   | 89   | 92   | 90    | 93   | 90   | 86   |
| 0.5      | 87   | 90   | 89   | 87   | 88  | 75   | 79   | 83   | 86    | 90   | 85   | 86   |
| 1.0      | 82   | 85   | 86   | 79   | 76  | 63   | 73   | 75   | 79    | 85   | 76   | 81   |
| 1.5      | 77   | 79   | 82   | 72   | 68  | 58   | 71   | 72   | 74    | 79   | 69   | 78   |
| 2.0      | 74   | 75   | 78   | 67   | 65  | 57   | 69   | 70   | 69    | 74   | 62   | 72   |
| 2.5      | 71   | 72   | 74   | 65   | 62  | 56   | 69   | 70   | 65    | 69   | 59   | 68   |
| 3.0      | 70   | 70   | 71   | 64   | 60  | 56   | 66   | 67   | 64    | 66   | 58   | 66   |
| 4        | 67   | 67   | 67   | 60   | 58  | 54   | 61   | 61   | 62    | 63   | 56   | 64   |
| 5        | 61   | 63   | 62   | 58   | 53  | 51   | 58   | 56   | 59    | 62   | 53   | 59   |
| 6        | --   | --   | --   | 52   | 52  | 47   | 56   | 52   | 56    | 56   | --   | --   |
| 7        | --   | --   | --   | --   | 47  | 46   | 54   | 50   | 49    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |    |    |    |    |     |    |    |
|---------|----|----|----|----|----|----|----|----|----|-----|----|----|
| Surface | 61 | 54 | 71 | 89 | 93 | 89 | 93 | 74 | 71 | 113 | 91 | 69 |
| 5       | 41 | 42 | 37 | 82 | 87 | 80 | 85 | 68 | 66 | 102 | 70 | 37 |
| 7       | -- | -- | -- | -- | 37 | 75 | 77 | 61 | 28 | --  | -- | -- |

AVERAGE TEMPERATURES °C.

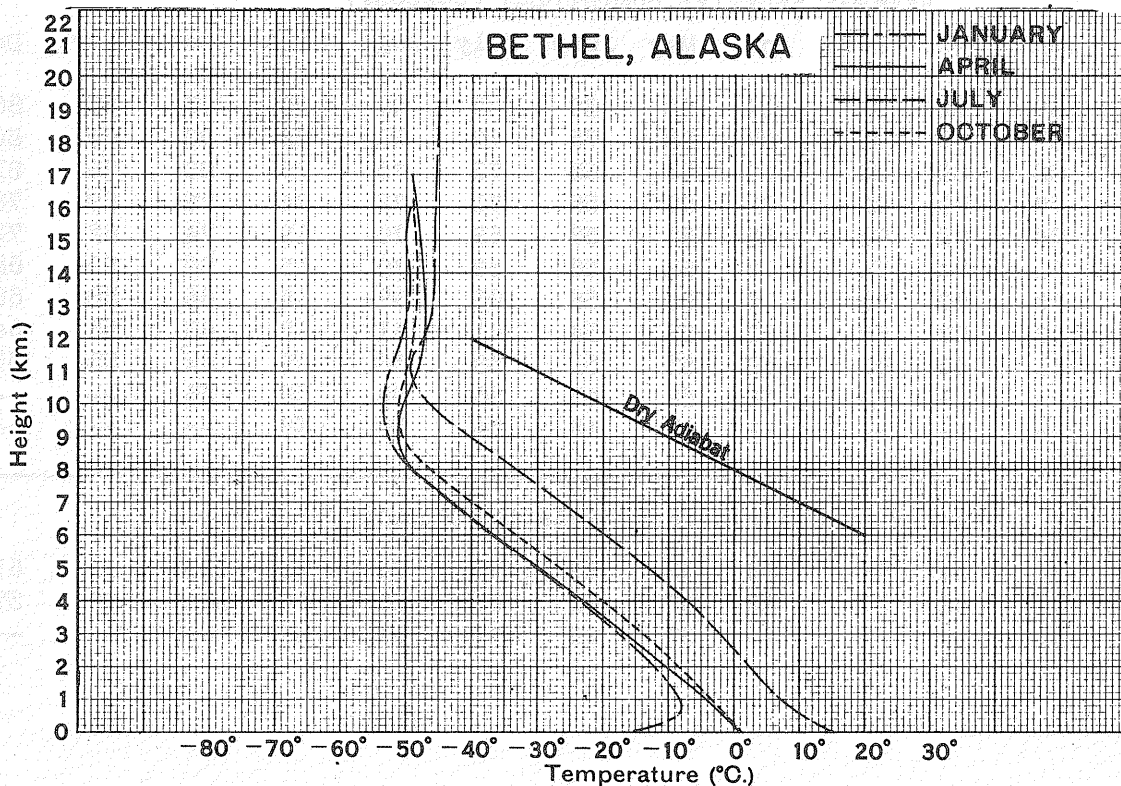
Bethel, Alaska  
Elevation: 8 meters, m.s.l.

Period of Record: October 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -15.1 | -7.4  | -8.1  | 0.9   | 8.2   | 15.7  | 15.0  | 13.4  | 9.9   | 0.9   | -7.0  | -15.4 |
| 0.5        | -8.5  | -5.1  | -7.7  | -1.5  | 4.2   | 11.8  | 10.9  | 10.1  | 7.3   | -1.1  | -5.4  | -10.8 |
| 1.0        | -8.2  | -6.3  | -8.7  | -4.6  | 0.8   | 8.0   | 7.4   | 7.2   | 4.0   | -3.6  | -6.9  | -10.8 |
| 1.5        | -9.8  | -8.3  | -10.5 | -7.6  | -2.3  | 4.5   | 5.0   | 5.1   | 1.2   | -5.9  | -9.0  | -12.1 |
| 2.0        | -12.3 | -10.9 | -13.1 | -10.6 | -5.2  | 1.3   | 2.5   | 3.1   | -1.5  | -8.5  | -11.1 | -14.4 |
| 2.5        | -14.9 | -13.7 | -15.9 | -13.5 | -8.0  | -1.6  | 0.3   | 0.8   | -4.1  | -11.4 | -13.6 | -17.1 |
| 3.0        | -17.8 | -16.9 | -18.7 | -16.6 | -10.8 | -4.4  | -2.0  | -1.7  | -7.1  | -14.0 | -16.5 | -20.1 |
| 4          | -24.0 | -22.9 | -24.8 | -23.1 | -16.7 | -10.4 | -7.2  | -6.7  | -13.0 | -20.3 | -22.9 | -26.2 |
| 5          | -30.3 | -29.4 | -31.1 | -29.8 | -23.1 | -16.8 | -13.2 | -12.5 | -18.9 | -26.6 | -29.2 | -32.7 |
| 6          | -37.1 | -36.4 | -37.3 | -36.8 | -29.7 | -23.6 | -19.7 | -19.2 | -25.4 | -33.3 | -36.0 | -39.3 |
| 7          | -43.5 | -42.9 | -43.5 | -43.3 | -36.4 | -30.6 | -26.5 | -26.1 | -32.4 | -40.1 | -42.7 | -45.6 |
| 8          | -49.3 | -48.7 | -48.5 | -48.8 | -43.1 | -38.0 | -33.3 | -33.2 | -39.7 | -46.5 | -48.2 | -51.1 |
| 9          | -52.9 | -51.8 | -51.3 | -51.4 | -48.3 | -44.5 | -40.5 | -40.1 | -45.8 | -50.9 | -51.3 | -53.2 |
| 10         | -53.5 | -51.5 | -51.8 | -50.2 | -50.8 | -48.6 | -46.6 | -46.1 | -49.2 | -51.5 | -52.3 | -53.2 |
| 11         | -52.4 | -48.9 | -51.2 | -48.3 | -50.1 | -49.0 | -49.4 | -49.4 | -47.9 | -50.0 | -52.2 | -51.8 |
| 12         | -51.0 | -47.9 | -49.8 | -47.3 | -48.8 | -46.2 | -47.3 | -49.7 | -47.4 | -49.0 | -50.9 | -50.5 |
| 13         | -49.8 | -46.9 | -49.0 | -47.1 | -48.0 | -45.1 | -46.1 | -48.9 | -47.3 | -48.4 | -50.0 | -49.9 |
| 14         | -49.5 | -46.9 | -49.1 | -47.4 | -47.6 | -45.3 | -45.8 | -48.7 | -47.6 | -48.2 | -49.3 | -49.9 |
| 15         | -50.1 | -46.7 | -49.5 | -48.0 | -47.4 | -45.6 | -45.6 | -48.6 | -48.1 | -48.6 | -48.9 | -49.8 |
| 16         | -49.3 | --    | --    | -48.6 | -47.4 | -45.6 | -45.6 | -48.5 | -48.1 | -49.1 | -48.8 | -49.1 |
| 17         | --    | --    | --    | -49.2 | -47.6 | -45.4 | -45.4 | -48.1 | -48.1 | -49.0 | --    | --    |
| 18         | --    | --    | --    | --    | -47.7 | -44.9 | -45.2 | -47.7 | --    | --    | --    | --    |
| 19         | --    | --    | --    | --    | --    | -44.5 | -45.1 | -47.2 | --    | --    | --    | --    |
| 20         | --    | --    | --    | --    | --    | -44.3 | -45.0 | --    | --    | --    | --    | --    |

Number of Observations

|         |    |    |    |    |    |    |    |    |    |    |     |     |
|---------|----|----|----|----|----|----|----|----|----|----|-----|-----|
| Surface | 87 | 83 | 91 | 88 | 93 | 90 | 93 | 93 | 83 | 99 | 106 | 109 |
| 5       | 84 | 81 | 88 | 85 | 91 | 85 | 90 | 81 | 79 | 94 | 104 | 107 |
| 10      | 75 | 69 | 76 | 74 | 77 | 77 | 87 | 76 | 70 | 85 | 93  | 96  |
| 15      | 44 | 31 | 40 | 48 | 57 | 66 | 76 | 64 | 52 | 50 | 46  | 44  |
| 18      | -- | -- | -- | -- | 29 | 54 | 53 | 38 | -- | -- | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 8 meters, m.s.l.

BETHEL, ALASKA

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1003 | 1000 | 1007 | 1000 | 1010 | 1010 | 1011 | 1011 | 1005  | 1001 | 1005 | 1002 |
| 0.5      | 941  | 939  | 946  | 941  | 951  | 952  | 953  | 953  | 947   | 941  | 944  | 939  |
| 1.0      | 883  | 881  | 887  | 883  | 894  | 897  | 898  | 897  | 891   | 884  | 885  | 880  |
| 1.5      | 827  | 826  | 831  | 829  | 840  | 844  | 845  | 844  | 838   | 829  | 830  | 824  |
| 2.0      | 775  | 775  | 778  | 777  | 788  | 793  | 794  | 794  | 787   | 778  | 778  | 772  |
| 2.5      | 725  | 725  | 728  | 728  | 739  | 745  | 746  | 746  | 739   | 729  | 729  | 722  |
| 3.0      | 679  | 679  | 681  | 681  | 693  | 700  | 701  | 701  | 693   | 683  | 682  | 675  |
| 4        | 593  | 593  | 595  | 595  | 608  | 615  | 618  | 618  | 609   | 597  | 596  | 589  |
| 5        | 516  | 517  | 518  | 519  | 531  | 540  | 443  | 543  | 534   | 522  | 519  | 513  |
| 6        | 448  | 448  | 449  | 450  | 463  | 472  | 475  | 475  | 466   | 453  | 451  | 444  |
| 7        | 386  | 387  | 387  | 388  | 401  | 410  | 414  | 415  | 405   | 392  | 389  | 383  |
| 8        | 332  | 333  | 333  | 334  | 347  | 356  | 360  | 360  | 350   | 338  | 335  | 329  |
| 9        | 285  | 285  | 286  | 287  | 298  | 307  | 312  | 312  | 302   | 290  | 287  | 282  |
| 10       | 244  | 245  | 245  | 245  | 256  | 264  | 269  | 269  | 259   | 249  | 246  | 241  |
| 11       | 209  | 210  | 211  | 211  | 220  | 227  | 231  | 231  | 223   | 214  | 211  | 207  |
| 12       | 179  | 181  | 180  | 182  | 189  | 195  | 198  | 198  | 191   | 183  | 181  | 177  |
| 13       | 154  | 155  | 155  | 156  | 162  | 168  | 171  | 170  | 164   | 157  | 155  | 152  |
| 14       | 132  | 133  | 133  | 134  | 139  | 144  | 147  | 146  | 142   | 135  | 134  | 131  |
| 15       | 114  | 115  | 115  | 115  | 119  | 124  | 126  | 126  | 121   | 116  | 115  | 113  |
| 16       | 98   | --   | --   | 99   | 103  | 107  | 109  | 108  | 104   | 100  | 98   | 97   |
| 17       | --   | --   | --   | 85   | 88   | 92   | 94   | 93   | 90    | 86   | --   | --   |
| 18       | --   | --   | --   | --   | 76   | 79   | 81   | 80   | --    | --   | --   | --   |
| 19       | --   | --   | --   | --   | --   | 68   | 70   | 69   | --    | --   | --   | --   |
| 20       | --   | --   | --   | --   | --   | 58   | 60   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 70   | 78   | 74   | 73   | 67  | 62   | 70   | 80   | 77    | 81   | 82   | 77   |
| 0.5      | 69   | 75   | 71   | 73   | 70  | 63   | 76   | 84   | 80    | 80   | 77   | 77   |
| 1.0      | 66   | 74   | 69   | 74   | 73  | 67   | 81   | 87   | 83    | 79   | 75   | 75   |
| 1.5      | 63   | 72   | 66   | 76   | 76  | 71   | 79   | 84   | 83    | 77   | 72   | 70   |
| 2.0      | 61   | 71   | 65   | 74   | 76  | 72   | 77   | 79   | 81    | 72   | 66   | 66   |
| 2.5      | 58   | 68   | 62   | 72   | 74  | 74   | 72   | 73   | 76    | 68   | 59   | 64   |
| 3.0      | 57   | 66   | 60   | 70   | 69  | 73   | 67   | 68   | 74    | 64   | 58   | 62   |
| 4        | 55   | 62   | 57   | 67   | 64  | 71   | 60   | 60   | 69    | 62   | 56   | 60   |
| 5        | 54   | 60   | 56   | 63   | 62  | 65   | 57   | 57   | 67    | 60   | 55   | 56   |
| 6        | 50   | 61   | 55   | 62   | 57  | 62   | 53   | 54   | 63    | 60   | 53   | 55   |
| 7        | --   | --   | --   | --   | 52  | 59   | 52   | 52   | 62    | --   | --   | --   |
| 8        | --   | --   | --   | --   | --  | 54   | 51   | 53   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |    |    |    |    |    |     |     |
|---------|----|----|----|----|----|----|----|----|----|----|-----|-----|
| Surface | 87 | 83 | 91 | 88 | 92 | 89 | 93 | 83 | 83 | 98 | 106 | 110 |
| 5       | 70 | 74 | 73 | 76 | 89 | 77 | 90 | 78 | 79 | 92 | 92  | 91  |
| 7       | -- | -- | -- | -- | 51 | 75 | 89 | 78 | 61 | -- | --  | --  |

AVERAGE TEMPERATURES °C.

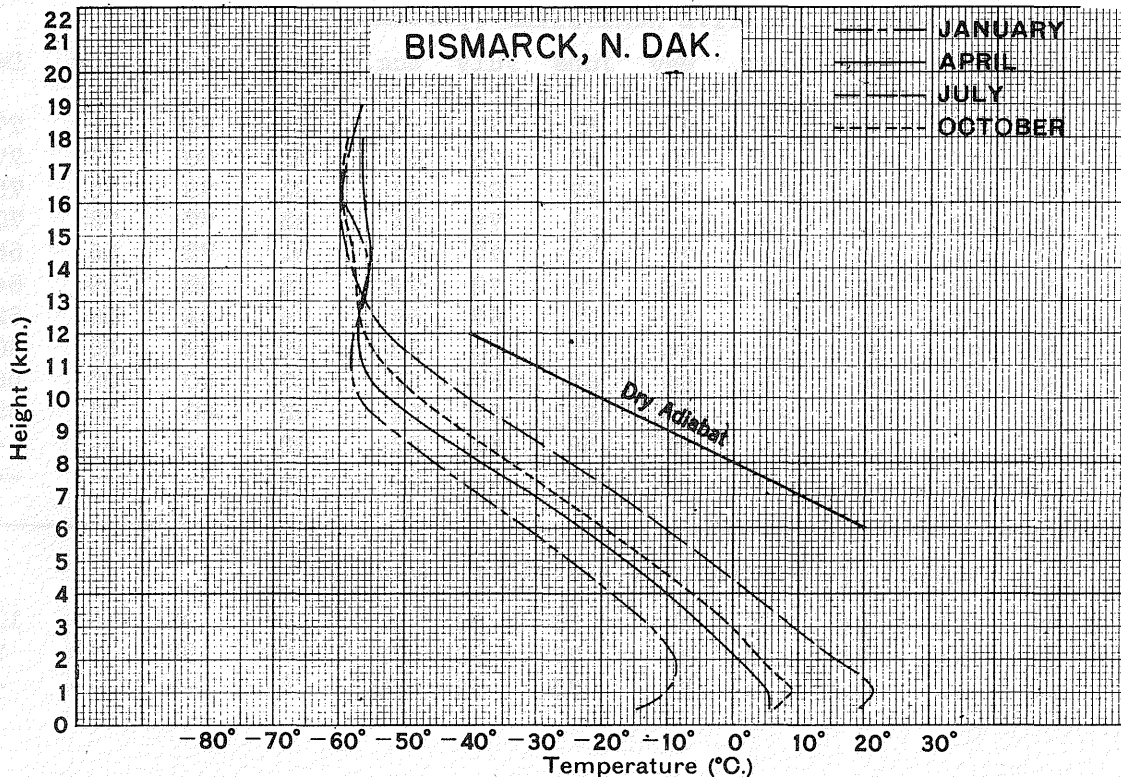
Bismarck, N. Dak.

Period of Record: July 1939-December 1943

Elevation: 505 meters, m.s.l.

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -14.5 | -9.6  | -4.3  | 5.5   | 10.7  | 15.9  | 19.8  | 18.2  | 12.3  | 6.4   | -2.5  | -6.5  |
| 1.0        | -10.1 | -8.3  | -4.3  | 5.3   | 10.8  | 16.1  | 21.5  | 20.1  | 14.7  | 9.0   | -0.6  | -3.0  |
| 1.5        | -8.8  | -7.5  | -5.7  | 3.1   | 8.1   | 13.4  | 19.8  | 17.5  | 12.3  | 6.8   | -0.9  | -3.2  |
| 2.0        | -8.6  | -8.1  | -7.2  | 0.7   | 5.2   | 10.6  | 15.6  | 14.6  | 9.5   | 4.4   | -2.1  | -4.6  |
| 2.5        | -10.3 | -9.9  | -9.2  | -1.6  | 1.8   | 7.8   | 12.4  | 11.5  | 6.7   | 1.9   | -4.0  | -6.6  |
| 3.0        | -12.5 | -12.2 | -11.4 | -4.3  | -0.8  | 4.8   | 9.2   | 8.4   | 3.8   | -0.5  | -6.4  | -9.1  |
| 4          | -18.3 | -17.9 | -17.2 | -10.1 | -6.8  | -1.1  | 2.8   | 2.1   | -2.3  | -6.4  | -12.5 | -14.6 |
| 5          | -24.8 | -24.1 | -23.4 | -16.6 | -13.1 | -7.6  | -4.0  | -4.5  | -8.7  | -12.8 | -18.8 | -20.8 |
| 6          | -31.5 | -31.2 | -30.0 | -23.6 | -20.0 | -14.1 | -10.7 | -11.1 | -15.4 | -19.6 | -25.4 | -27.6 |
| 7          | -38.8 | -38.8 | -37.3 | -30.9 | -27.4 | -21.3 | -17.8 | -18.1 | -22.5 | -26.9 | -32.5 | -34.9 |
| 8          | -45.6 | -45.9 | -44.6 | -38.4 | -35.4 | -28.7 | -25.1 | -25.4 | -29.5 | -34.4 | -39.7 | -42.4 |
| 9          | -51.9 | -52.1 | -51.2 | -45.7 | -42.8 | -36.4 | -32.6 | -32.9 | -36.9 | -41.6 | -46.6 | -49.1 |
| 10         | -56.8 | -55.8 | -56.2 | -52.4 | -49.4 | -43.7 | -40.2 | -40.2 | -44.1 | -48.2 | -52.7 | -53.7 |
| 11         | -58.2 | -55.7 | -57.8 | -56.4 | -54.0 | -50.1 | -47.2 | -46.8 | -50.0 | -53.2 | -55.6 | -55.8 |
| 12         | -57.8 | -53.2 | -56.4 | -57.1 | -55.9 | -54.4 | -52.8 | -52.2 | -53.9 | -56.1 | -57.6 | -54.9 |
| 13         | -56.3 | -52.3 | -55.2 | -56.5 | -55.5 | -56.5 | -56.0 | -54.9 | -56.5 | -57.1 | -57.5 | -54.9 |
| 14         | -55.6 | -52.9 | -55.0 | -55.4 | -54.6 | -56.5 | -57.9 | -57.2 | -58.2 | -57.7 | -57.6 | -55.7 |
| 15         | -57.2 | -53.8 | -55.3 | -55.8 | -55.1 | -56.6 | -59.5 | -59.1 | -58.9 | -58.6 | -58.0 | -57.0 |
| 16         | -59.5 | -54.5 | -56.0 | -56.5 | -55.9 | -57.2 | -59.7 | -59.9 | -59.5 | -59.4 | -58.6 | -57.3 |
| 17         | --    | --    | -56.2 | -56.7 | -56.2 | -57.5 | -59.0 | -59.3 | -59.3 | -59.5 | -59.1 | --    |
| 18         | --    | --    | --    | -56.7 | -56.2 | -57.0 | -58.1 | -57.6 | -58.4 | -58.9 | -58.8 | --    |
| 19         | --    | --    | --    | --    | --    | -56.4 | -56.9 | -56.3 | -57.8 | --    | --    | --    |
| 20         | --    | --    | --    | --    | --    | --    | --    | -55.4 | -57.2 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124                    | 112 | 123 | 116 | 123 | 120 | 127 | 154 | 151 | 152 | 148 | 152 |
| 5       | 121                    | 112 | 119 | 114 | 121 | 116 | 125 | 147 | 147 | 145 | 144 | 145 |
| 10      | 107                    | 100 | 106 | 100 | 111 | 104 | 118 | 136 | 135 | 127 | 126 | 116 |
| 15      | 48                     | 59  | 68  | 76  | 86  | 82  | 104 | 116 | 104 | 89  | 101 | 63  |
| 18      | --                     | --  | --  | 37  | 40  | 45  | 67  | 82  | 64  | 44  | 30  | --  |





AVERAGE PRESSURES (Mbs.)

Elevation: 505 meters, m.s.l.

BISMARCK, N. DAK.

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 960  | 958  | 956  | 955  | 954 | 953  | 955  | 955  | 956   | 955  | 958  | 956  |
| 1.0      | 900  | 899  | 898  | 899  | 900 | 900  | 902  | 902  | 901   | 900  | 901  | 898  |
| 1.5      | 844  | 843  | 842  | 845  | 847 | 848  | 852  | 851  | 849   | 847  | 846  | 843  |
| 2.0      | 790  | 790  | 790  | 794  | 797 | 799  | 803  | 802  | 800   | 796  | 794  | 791  |
| 2.5      | 741  | 741  | 741  | 746  | 749 | 752  | 757  | 756  | 753   | 749  | 746  | 742  |
| 3.0      | 694  | 694  | 695  | 701  | 704 | 708  | 713  | 712  | 708   | 704  | 700  | 696  |
| 4        | 608  | 608  | 609  | 616  | 620 | 625  | 631  | 630  | 625   | 620  | 615  | 611  |
| 5        | 531  | 531  | 532  | 541  | 545 | 551  | 557  | 556  | 551   | 545  | 539  | 535  |
| 6        | 462  | 462  | 463  | 472  | 477 | 484  | 490  | 489  | 483   | 477  | 471  | 466  |
| 7        | 400  | 400  | 402  | 411  | 416 | 423  | 430  | 429  | 423   | 416  | 409  | 405  |
| 8        | 345  | 345  | 347  | 356  | 361 | 369  | 375  | 373  | 368   | 361  | 354  | 350  |
| 9        | 296  | 296  | 298  | 307  | 312 | 320  | 326  | 325  | 319   | 313  | 305  | 301  |
| 10       | 253  | 254  | 255  | 264  | 269 | 277  | 282  | 282  | 276   | 270  | 262  | 258  |
| 11       | 216  | 217  | 218  | 226  | 230 | 238  | 243  | 243  | 237   | 231  | 225  | 221  |
| 12       | 185  | 186  | 186  | 193  | 197 | 204  | 209  | 208  | 203   | 198  | 192  | 189  |
| 13       | 158  | 159  | 159  | 165  | 168 | 174  | 178  | 178  | 174   | 169  | 164  | 161  |
| 14       | 135  | 136  | 136  | 141  | 144 | 149  | 152  | 152  | 150   | 144  | 140  | 138  |
| 15       | 116  | 117  | 116  | 121  | 123 | 127  | 130  | 130  | 127   | 123  | 119  | 118  |
| 16       | 100  | 100  | 99   | 103  | 105 | 109  | 111  | 111  | 108   | 105  | 102  | 101  |
| 17       | --   | --   | 85   | 88   | 90  | 93   | 94   | 94   | 92    | 89   | 87   | 87   |
| 18       | --   | --   | --   | 76   | 77  | 79   | 81   | 81   | 79    | 76   | 74   | --   |
| 19       | --   | --   | --   | --   | --  | 68   | 69   | 69   | 67    | --   | --   | --   |
| 20       | --   | --   | --   | --   | --  | --   | --   | 59   | 58    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 84   | 88   | 84   | 75   | 70  | 76   | 74   | 70   | 71    | 73   | 80   | 82   |
| 1.0      | 83   | 85   | 77   | 69   | 64  | 65   | 58   | 58   | 58    | 62   | 72   | 74   |
| 1.5      | 79   | 79   | 74   | 68   | 64  | 65   | 57   | 57   | 57    | 57   | 66   | 69   |
| 2.0      | 75   | 73   | 70   | 68   | 64  | 63   | 57   | 58   | 56    | 56   | 60   | 65   |
| 2.5      | 73   | 69   | 67   | 68   | 63  | 59   | 56   | 58   | 53    | 54   | 56   | 62   |
| 3.0      | 71   | 67   | 66   | 64   | 61  | 57   | 54   | 55   | 51    | 53   | 53   | 60   |
| 4        | 69   | 66   | 63   | 60   | 57  | 52   | 50   | 50   | 51    | 51   | 51   | 58   |
| 5        | 67   | 62   | 60   | 58   | 54  | 47   | 47   | 47   | 49    | 48   | 50   | 58   |
| 6        | 62   | 60   | 59   | 55   | 51  | 43   | 44   | 42   | 46    | 46   | 49   | 55   |
| 7        | 53   | 56   | 54   | 54   | 49  | 41   | 41   | 39   | 44    | 44   | 45   | 53   |
| 8        | --   | --   | --   | 57   | 48  | 38   | 42   | 38   | 43    | 41   | 44   | --   |
| 9        | --   | --   | --   | --   | --  | 40   | 40   | 37   | 42    | --   | --   | --   |
| 10       | --   | --   | --   | --   | --  | --   | --   | 35   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 123 | 112 | 123 | 116 | 123 | 120 | 127 | 154 | 150 | 152 | 147 | 150 |
| 5       | 109 | 109 | 111 | 107 | 120 | 111 | 124 | 143 | 144 | 143 | 138 | 136 |
| 7       | 55  | 58  | 67  | 99  | 114 | 109 | 117 | 141 | 142 | 133 | 111 | 100 |
| 9       | --  | --  | --  | --  | --  | 44  | 78  | 91  | 69  | --  | --  | --  |

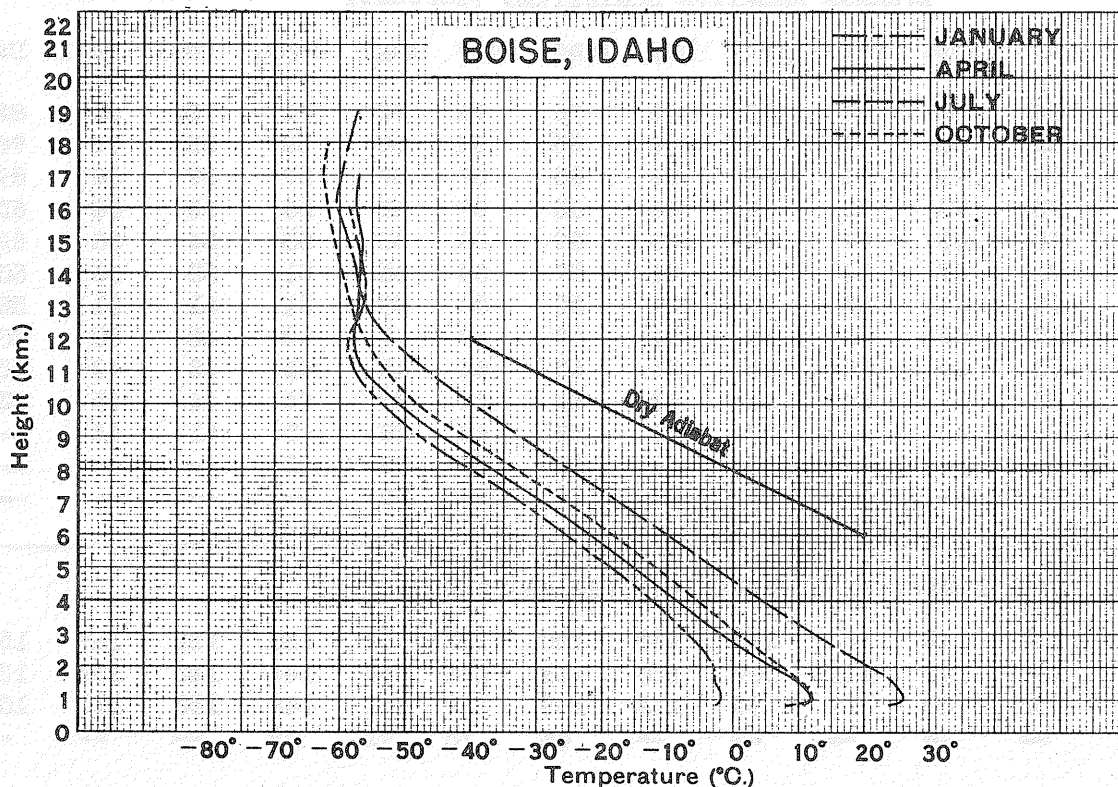
AVERAGE TEMPERATURES °C.

Boise, Idaho  
Elevation: 868 meters, m.s.l.

Period of Record: September 1939-July 1940  
April 1941-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -2.8  | 1.2   | 4.8   | 10.6  | 15.1  | 17.4  | 23.9  | 22.2  | 15.6  | 8.0   | 2.7   | 1.2   |
| 1.0        | -2.0  | 2.1   | 6.1   | 11.8  | 14.8  | 19.3  | 26.0  | 23.9  | 18.5  | 12.0  | 5.4   | 2.3   |
| 1.5        | -2.7  | 0.3   | 3.9   | 9.9   | 12.9  | 17.1  | 24.5  | 22.7  | 17.6  | 10.9  | 5.2   | 1.1   |
| 2.0        | -3.0  | -2.6  | 0.3   | 6.0   | 8.9   | 13.2  | 20.5  | 18.8  | 14.0  | 7.6   | 3.0   | -0.8  |
| 2.5        | -4.6  | -5.4  | -3.4  | 2.1   | 5.0   | 9.3   | 16.3  | 14.8  | 10.3  | 4.0   | 0.6   | -3.5  |
| 3.0        | -6.9  | -8.3  | -6.8  | -1.7  | 1.5   | 5.7   | 12.2  | 10.9  | 6.7   | 0.6   | -2.4  | -6.0  |
| 4          | -12.5 | -14.2 | -12.8 | -8.6  | -5.6  | -1.4  | 4.6   | 3.1   | -0.4  | -5.4  | -8.5  | -11.6 |
| 5          | -18.8 | -20.8 | -19.3 | -15.1 | -12.6 | -8.3  | -2.9  | -4.3  | -7.1  | -11.7 | -14.5 | -17.7 |
| 6          | -25.6 | -27.7 | -25.9 | -21.9 | -19.4 | -15.2 | -10.0 | -11.3 | -14.0 | -18.5 | -21.4 | -24.4 |
| 7          | -32.8 | -35.1 | -33.2 | -29.4 | -26.5 | -22.2 | -17.2 | -18.4 | -21.1 | -25.8 | -28.6 | -31.6 |
| 8          | -40.1 | -42.7 | -40.6 | -36.7 | -33.9 | -29.4 | -24.8 | -25.4 | -28.6 | -32.8 | -35.9 | -38.7 |
| 9          | -47.4 | -49.2 | -47.6 | -44.4 | -41.1 | -37.0 | -32.3 | -32.7 | -36.1 | -41.0 | -43.4 | -46.4 |
| 10         | -53.9 | -53.7 | -54.4 | -51.0 | -47.8 | -43.7 | -39.8 | -40.0 | -43.4 | -48.1 | -50.4 | -51.8 |
| 11         | -58.0 | -55.9 | -58.7 | -56.1 | -53.2 | -49.5 | -46.8 | -46.4 | -49.7 | -52.9 | -55.8 | -55.3 |
| 12         | -58.7 | -55.2 | -60.1 | -57.9 | -56.2 | -53.2 | -52.6 | -51.0 | -54.1 | -56.3 | -58.9 | -56.9 |
| 13         | -56.6 | -54.3 | -58.6 | -57.2 | -56.7 | -54.6 | -56.0 | -53.9 | -56.3 | -58.1 | -59.8 | -56.6 |
| 14         | -56.4 | -54.3 | -57.4 | -56.5 | -56.3 | -55.2 | -57.3 | -56.2 | -58.2 | -59.5 | -60.6 | -56.8 |
| 15         | -57.8 | -55.4 | -57.4 | -56.6 | -56.0 | -56.0 | -59.0 | -58.5 | -60.0 | -60.9 | -61.2 | -58.2 |
| 16         | -58.8 | -55.9 | -58.4 | -57.3 | -56.7 | -56.8 | -60.2 | -60.0 | -60.9 | -61.9 | -62.0 | -59.4 |
| 17         | --    | --    | --    | -57.0 | -56.6 | -57.4 | -59.9 | -60.4 | -61.2 | -62.7 | -62.4 | --    |
| 18         | --    | --    | --    | --    | -56.8 | -57.8 | -58.8 | -59.3 | -60.8 | -61.9 | -61.6 | --    |
| 19         | --    | --    | --    | --    | --    | -56.8 | -57.2 | -57.7 | -60.5 | --    | -60.6 | --    |

|         | Number of Observations |    |    |    |     |     |     |    |     |     |     |     |
|---------|------------------------|----|----|----|-----|-----|-----|----|-----|-----|-----|-----|
| surface | 93                     | 83 | 93 | 85 | 114 | 119 | 100 | 92 | 117 | 122 | 117 | 117 |
| 5       | 88                     | 82 | 90 | 84 | 113 | 115 | 99  | 91 | 113 | 118 | 114 | 109 |
| 10      | 72                     | 77 | 82 | 76 | 102 | 102 | 90  | 79 | 95  | 106 | 98  | 84  |
| 15      | 33                     | 42 | 50 | 60 | 79  | 76  | 67  | 44 | 77  | 89  | 71  | 42  |
| 18      | --                     | -- | -- | -- | 47  | 47  | 44  | 30 | 51  | 39  | 42  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 868 meters, m.s.l.

BOISE, IDAHO

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 921  | 918  | 916  | 913  | 914 | 914  | 914  | 913  | 916   | 918  | 922  | 920  |
| 1.0      | 906  | 903  | 901  | 899  | 900 | 899  | 900  | 899  | 901   | 903  | 906  | 905  |
| 1.5      | 851  | 849  | 848  | 846  | 848 | 848  | 851  | 850  | 850   | 850  | 852  | 850  |
| 2.0      | 799  | 797  | 797  | 796  | 798 | 800  | 803  | 801  | 801   | 800  | 801  | 798  |
| 2.5      | 750  | 748  | 748  | 748  | 751 | 753  | 757  | 755  | 754   | 753  | 753  | 750  |
| 3.0      | 703  | 701  | 702  | 703  | 706 | 708  | 714  | 712  | 710   | 708  | 707  | 703  |
| 4        | 618  | 616  | 617  | 619  | 623 | 626  | 632  | 630  | 628   | 624  | 623  | 619  |
| 5        | 542  | 539  | 540  | 544  | 548 | 552  | 558  | 556  | 553   | 549  | 547  | 542  |
| 6        | 473  | 470  | 472  | 476  | 480 | 484  | 491  | 489  | 486   | 481  | 478  | 473  |
| 7        | 411  | 408  | 410  | 414  | 418 | 424  | 431  | 429  | 425   | 420  | 417  | 412  |
| 8        | 356  | 353  | 355  | 359  | 364 | 369  | 376  | 374  | 371   | 365  | 362  | 357  |
| 9        | 307  | 303  | 305  | 310  | 314 | 320  | 327  | 325  | 321   | 315  | 312  | 308  |
| 10       | 264  | 260  | 262  | 267  | 271 | 276  | 284  | 282  | 278   | 272  | 269  | 264  |
| 11       | 225  | 222  | 224  | 228  | 233 | 238  | 244  | 243  | 239   | 233  | 230  | 226  |
| 12       | 192  | 190  | 191  | 195  | 199 | 204  | 210  | 209  | 205   | 199  | 196  | 193  |
| 13       | 164  | 162  | 163  | 166  | 170 | 175  | 180  | 179  | 175   | 170  | 167  | 165  |
| 14       | 140  | 138  | 139  | 142  | 145 | 149  | 153  | 153  | 149   | 145  | 142  | 141  |
| 15       | 120  | 118  | 119  | 121  | 124 | 128  | 131  | 131  | 127   | 124  | 121  | 120  |
| 16       | 103  | 101  | 101  | 104  | 106 | 109  | 112  | 112  | 109   | 105  | 103  | 103  |
| 17       | --   | --   | --   | 89   | 91  | 93   | 95   | 95   | 92    | 90   | 88   | --   |
| 18       | --   | --   | --   | --   | 78  | 80   | 81   | 81   | 79    | 76   | 75   | --   |
| 19       | --   | --   | --   | --   | --  | 68   | 69   | 69   | 68    | --   | 64   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 86   | 79   | 66   | 63   | 60  | 52   | 38   | 41   | 51    | 67   | 80   | 83   |
| 1.0      | 84   | 75   | 61   | 58   | 54  | 47   | 33   | 37   | 44    | 59   | 70   | 78   |
| 1.5      | 80   | 70   | 55   | 53   | 48  | 42   | 28   | 33   | 38    | 53   | 58   | 71   |
| 2.0      | 76   | 70   | 57   | 55   | 49  | 43   | 29   | 34   | 38    | 53   | 54   | 68   |
| 2.5      | 74   | 70   | 60   | 58   | 52  | 46   | 31   | 36   | 40    | 55   | 51   | 67   |
| 3.0      | 71   | 69   | 61   | 62   | 54  | 48   | 33   | 39   | 42    | 56   | 52   | 65   |
| 4        | 65   | 65   | 61   | 62   | 57  | 51   | 38   | 43   | 44    | 55   | 52   | 62   |
| 5        | 61   | 60   | 58   | 59   | 55  | 49   | 42   | 44   | 43    | 55   | 51   | 60   |
| 6        | 58   | 58   | 56   | 54   | 53  | 48   | 43   | 43   | 43    | 51   | 50   | 58   |
| 7        | 56   | 55   | 55   | 53   | 51  | 49   | 41   | 39   | 40    | 50   | 49   | 57   |
| 8        | 54   | --   | 48   | 53   | 52  | 47   | 40   | 38   | 40    | 49   | 48   | 58   |
| 9        | --   | --   | --   | --   | 47  | 42   | 40   | 40   | 40    | 44   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |     |     |    |    |     |     |     |     |
|---------|----|----|----|----|-----|-----|----|----|-----|-----|-----|-----|
| Surface | 93 | 83 | 92 | 85 | 113 | 119 | 99 | 92 | 114 | 120 | 117 | 117 |
| 5       | 87 | 80 | 88 | 83 | 112 | 115 | 98 | 90 | 109 | 116 | 113 | 107 |
| 7       | 74 | 63 | 78 | 79 | 103 | 109 | 93 | 88 | 102 | 109 | 107 | 93  |
| 9       | -- | -- | -- | -- | 36  | 58  | 72 | 54 | 54  | 25  | --  | --  |

AVERAGE TEMPERATURES °C.

Brownsville, Tex.

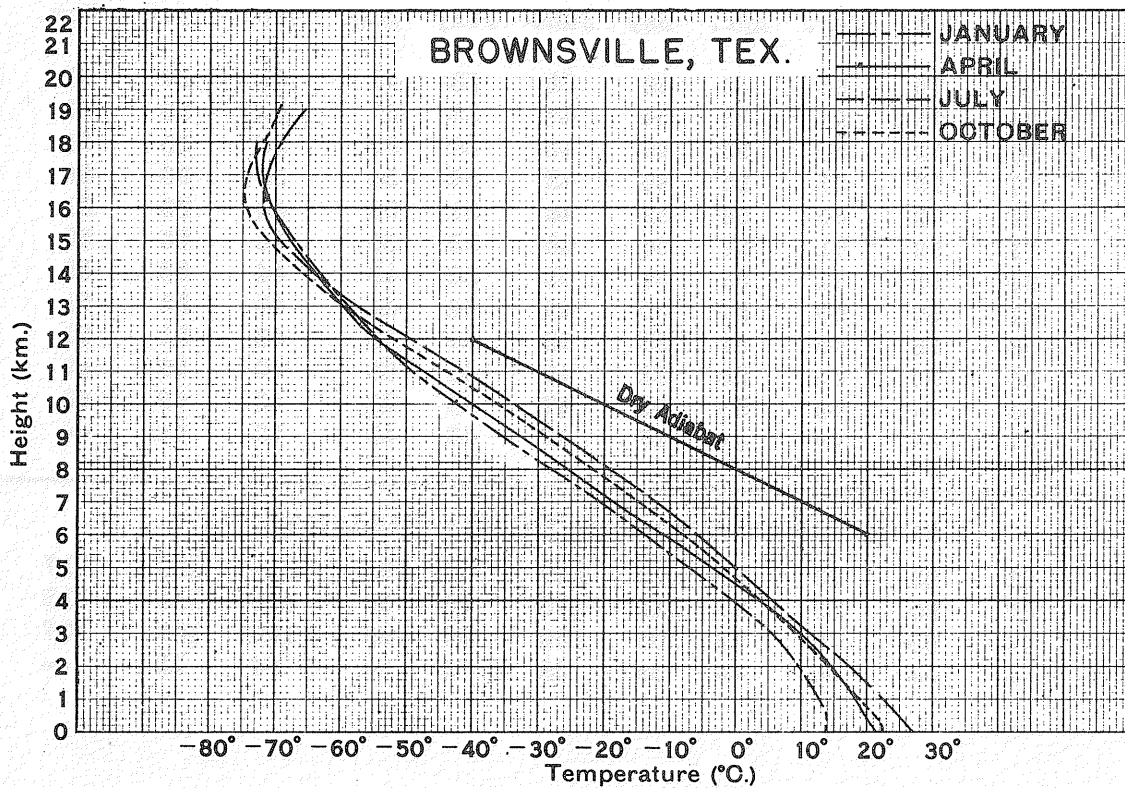
Elevation: 6 meters, m.s.l.

Period of Record: August 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 13.6  | 15.0  | 16.4  | 21.2  | 24.0  | 26.3  | 26.7  | 26.8  | 24.8  | 22.2  | 18.1  | 15.8  |
| 0.5        | 13.9  | 14.4  | 15.1  | 19.4  | 21.8  | 23.7  | 24.7  | 24.4  | 23.1  | 21.3  | 17.6  | 15.9  |
| 1.0        | 12.5  | 12.8  | 13.7  | 18.3  | 20.5  | 22.0  | 22.5  | 22.4  | 20.4  | 18.5  | 15.0  | 14.0  |
| 1.5        | 11.0  | 11.5  | 12.7  | 16.8  | 18.7  | 19.8  | 20.1  | 20.2  | 17.9  | 16.5  | 12.8  | 12.4  |
| 2.0        | 9.6   | 10.0  | 11.2  | 14.8  | 16.4  | 17.2  | 17.2  | 17.5  | 15.3  | 14.2  | 11.1  | 10.9  |
| 2.5        | 7.7   | 8.1   | 9.3   | 12.5  | 14.0  | 14.6  | 14.3  | 14.7  | 12.8  | 11.7  | 9.1   | 9.0   |
| 3.0        | 5.4   | 5.9   | 6.8   | 9.8   | 11.1  | 11.6  | 11.4  | 12.0  | 10.2  | 9.2   | 6.9   | 6.4   |
| 4          | -0.6  | 0.0   | 0.8   | 3.3   | 4.9   | 5.7   | 5.6   | 6.0   | 5.0   | 3.6   | 1.7   | 0.6   |
| 5          | -7.1  | -6.5  | -6.4  | -3.9  | -1.8  | -0.2  | -0.1  | 0.1   | -0.4  | -2.0  | -4.4  | -5.6  |
| 6          | -14.0 | -13.1 | -13.4 | -11.2 | -8.5  | -6.5  | -6.1  | -5.7  | -6.1  | -8.2  | -10.9 | -12.4 |
| 7          | -20.5 | -19.9 | -20.4 | -18.4 | -15.5 | -13.0 | -12.4 | -12.1 | -12.4 | -15.0 | -17.8 | -19.4 |
| 8          | -28.2 | -26.8 | -27.3 | -25.6 | -22.5 | -19.9 | -19.3 | -19.0 | -19.1 | -22.0 | -25.0 | -26.3 |
| 9          | -35.6 | -33.8 | -34.6 | -32.9 | -29.9 | -27.1 | -26.4 | -26.2 | -26.2 | -29.1 | -32.3 | -33.6 |
| 10         | -43.0 | -41.0 | -41.8 | -40.3 | -37.2 | -34.5 | -33.9 | -33.8 | -33.7 | -36.4 | -39.8 | -41.1 |
| 11         | -49.3 | -47.9 | -48.4 | -47.6 | -44.6 | -42.1 | -41.8 | -41.4 | -41.4 | -44.3 | -47.1 | -48.4 |
| 12         | -54.3 | -53.9 | -53.7 | -54.7 | -52.1 | -49.5 | -49.8 | -49.0 | -49.1 | -52.0 | -54.1 | -54.5 |
| 13         | -59.0 | -58.2 | -58.5 | -59.9 | -58.7 | -56.6 | -57.5 | -56.4 | -56.6 | -59.2 | -60.3 | -60.0 |
| 14         | -63.4 | -62.2 | -62.8 | -63.9 | -64.1 | -63.1 | -64.6 | -63.2 | -64.0 | -65.9 | -65.9 | -64.7 |
| 15         | -67.2 | -66.9 | -67.3 | -67.5 | -67.7 | -68.4 | -69.7 | -68.8 | -70.3 | -71.3 | -70.3 | -68.8 |
| 16         | -70.5 | -70.8 | -71.0 | -70.6 | -70.8 | -72.8 | -72.1 | -72.2 | -73.8 | -74.9 | -73.3 | -70.9 |
| 17         | -72.8 | -73.0 | -73.2 | -72.1 | -72.4 | -75.1 | -71.1 | -71.6 | -74.0 | -74.3 | -74.3 | -72.9 |
| 18         | -73.0 | -72.8 | -73.2 | -71.2 | -70.9 | -73.2 | -68.8 | -68.8 | -71.0 | -71.5 | -72.7 | -70.5 |
| 19         | --    | --    | --    | --    | -67.7 | -69.0 | -65.5 | -65.5 | -67.5 | -69.4 | -69.7 | --    |
| 20         | --    | --    | --    | --    | --    | --    | --    | -62.8 | -64.7 | --    | --    | --    |

Number of Observations

|         |    |    |    |    |    |    |    |     |     |     |     |     |
|---------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Surface | 93 | 84 | 93 | 90 | 92 | 89 | 92 | 117 | 121 | 124 | 116 | 123 |
| 5       | 92 | 82 | 90 | 86 | 89 | 87 | 89 | 110 | 117 | 121 | 113 | 117 |
| 10      | 86 | 73 | 83 | 77 | 87 | 83 | 81 | 108 | 107 | 112 | 108 | 107 |
| 15      | 66 | 68 | 68 | 60 | 72 | 70 | 75 | 87  | 96  | 83  | 93  | 71  |
| 18      | 34 | 37 | 38 | 33 | 41 | 45 | 50 | 66  | 60  | 48  | 51  | 37  |



AVERAGE PRESSURES (Mbs.)

Elevation: 6 meters, m.s.l.

BROWNSVILLE, TEX.

21

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1020 | 1017 | 1015 | 1013 | 1012 | 1012 | 1014 | 1013 | 1013  | 1015 | 1018 | 1017 |
| 0.5      | 962  | 959  | 958  | 956  | 956  | 957  | 959  | 958  | 957   | 959  | 961  | 960  |
| 1.0      | 907  | 904  | 903  | 903  | 903  | 904  | 906  | 905  | 904   | 905  | 907  | 905  |
| 1.5      | 854  | 852  | 851  | 852  | 852  | 853  | 856  | 854  | 853   | 854  | 855  | 853  |
| 2.0      | 804  | 802  | 802  | 802  | 804  | 804  | 807  | 805  | 804   | 805  | 805  | 803  |
| 2.5      | 757  | 755  | 755  | 756  | 758  | 758  | 761  | 759  | 758   | 758  | 758  | 757  |
| 3.0      | 712  | 711  | 710  | 712  | 714  | 715  | 717  | 716  | 714   | 714  | 714  | 712  |
| 4        | 629  | 628  | 628  | 631  | 633  | 634  | 635  | 634  | 633   | 632  | 631  | 630  |
| 5        | 555  | 554  | 554  | 557  | 559  | 560  | 562  | 561  | 560   | 559  | 557  | 555  |
| 6        | 487  | 486  | 487  | 490  | 492  | 494  | 495  | 495  | 493   | 492  | 490  | 488  |
| 7        | 426  | 426  | 426  | 429  | 432  | 434  | 436  | 435  | 434   | 432  | 429  | 427  |
| 8        | 372  | 372  | 372  | 374  | 377  | 380  | 381  | 381  | 379   | 378  | 375  | 373  |
| 9        | 322  | 323  | 322  | 325  | 328  | 331  | 332  | 332  | 331   | 328  | 326  | 324  |
| 10       | 279  | 280  | 279  | 282  | 285  | 287  | 289  | 289  | 288   | 286  | 282  | 281  |
| 11       | 240  | 241  | 241  | 243  | 246  | 249  | 250  | 250  | 249   | 246  | 243  | 242  |
| 12       | 206  | 206  | 206  | 208  | 211  | 214  | 215  | 215  | 214   | 212  | 209  | 207  |
| 13       | 175  | 176  | 176  | 178  | 181  | 184  | 184  | 184  | 184   | 181  | 178  | 176  |
| 14       | 149  | 150  | 150  | 151  | 154  | 156  | 157  | 157  | 156   | 154  | 151  | 150  |
| 15       | 127  | 127  | 127  | 128  | 131  | 133  | 133  | 133  | 133   | 130  | 128  | 127  |
| 16       | 107  | 108  | 108  | 109  | 111  | 112  | 112  | 113  | 112   | 110  | 108  | 108  |
| 17       | 91   | 91   | 91   | 92   | 93   | 95   | 95   | 95   | 94    | 93   | 91   | 91   |
| 18       | 77   | 77   | 77   | 78   | 78   | 80   | 80   | 80   | 80    | 78   | 77   | 77   |
| 19       | --   | --   | --   | --   | 67   | 68   | 68   | 68   | 68    | 66   | 65   | --   |
| 20       | --   | --   | --   | --   | --   | --   | --   | 58   | 59    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 89   | 88   | 84   | 87   | 88  | 87   | 86   | 85   | 87    | 88   | 86   | 90   |
| 0.5      | 80   | 79   | 78   | 81   | 83  | 84   | 80   | 83   | 84    | 80   | 76   | 81   |
| 1.0      | 74   | 69   | 65   | 60   | 64  | 69   | 64   | 64   | 77    | 71   | 73   | 74   |
| 1.5      | 66   | 60   | 55   | 49   | 52  | 59   | 55   | 56   | 70    | 61   | 67   | 65   |
| 2.0      | 57   | 54   | 48   | 42   | 45  | 53   | 49   | 52   | 64    | 55   | 58   | 56   |
| 2.5      | 51   | 48   | 43   | 36   | 41  | 48   | 47   | 49   | 61    | 52   | 54   | 50   |
| 3.0      | 47   | 45   | 39   | 34   | 39  | 45   | 44   | 48   | 57    | 49   | 49   | 45   |
| 4        | 42   | 42   | 35   | 33   | 36  | 44   | 45   | 48   | 51    | 45   | 45   | 41   |
| 5        | 39   | 44   | 34   | 34   | 36  | 44   | 41   | 45   | 49    | 40   | 40   | 39   |
| 6        | 38   | 44   | 33   | 34   | 34  | 43   | 40   | 40   | 44    | 36   | 37   | 38   |
| 7        | 38   | 42   | 33   | 35   | 34  | 44   | 38   | 38   | 42    | 35   | 36   | 39   |
| 8        | 37   | 41   | 37   | 39   | 37  | 45   | 38   | 36   | 41    | 37   | 38   | 37   |
| 9        | 37   | 43   | 38   | 39   | 35  | 46   | 39   | 38   | 39    | 36   | 37   | 32   |
| 10       | --   | --   | --   | --   | --  | 41   | 41   | 38   | 37    | 35   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |    |    |     |     |     |     |     |
|---------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Surface | 93 | 83 | 93 | 90 | 92 | 89 | 92 | 118 | 121 | 124 | 116 | 123 |
| 5       | 91 | 81 | 88 | 84 | 88 | 85 | 84 | 109 | 116 | 119 | 113 | 116 |
| 7       | 90 | 75 | 85 | 77 | 86 | 85 | 80 | 110 | 115 | 116 | 110 | 111 |
| 9       | 42 | 40 | 37 | 36 | 61 | 77 | 77 | 96  | 81  | 76  | 65  | 46  |

AVERAGE TEMPERATURES °C.

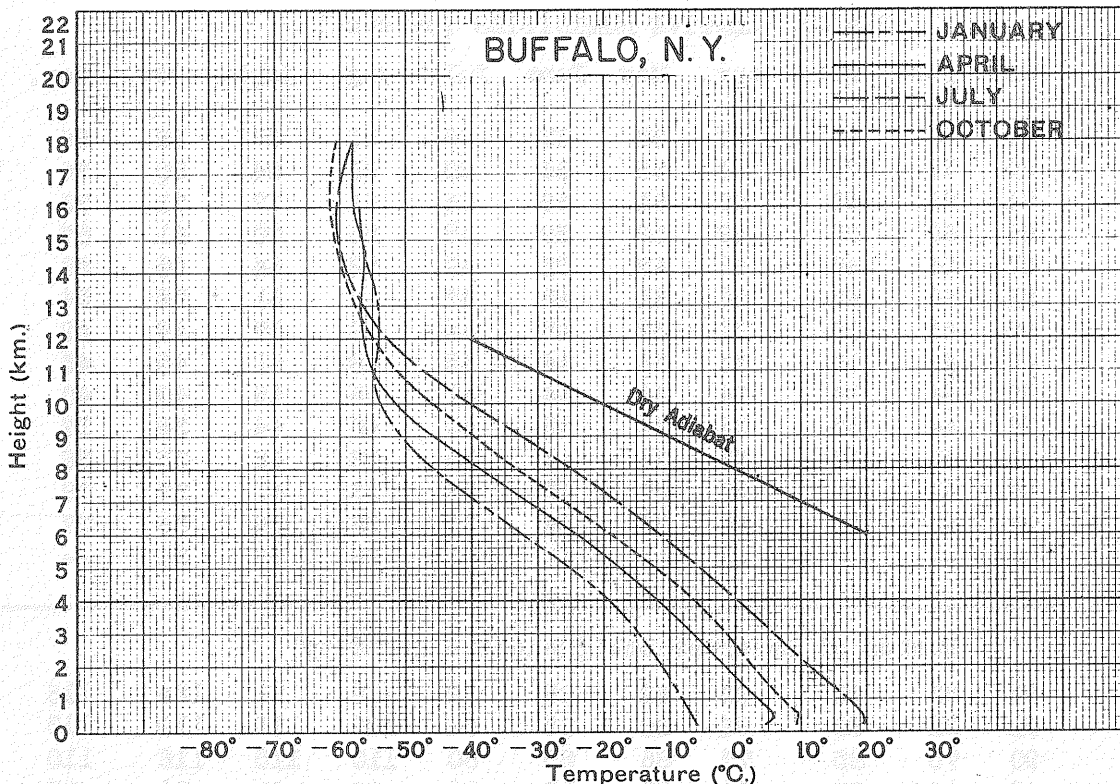
Buffalo, N. Y.

Elevation: 221 meters, m.s.l.

Period of Record: September 1939-July 1940  
January 1941-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -6.0  | -5.3  | -2.0  | 4.6   | 11.2  | 17.0  | 19.1  | 17.8  | 14.7  | 9.3   | 3.2   | -1.9  |
| 0.5        | -6.5  | -6.1  | -2.4  | 5.8   | 12.8  | 18.1  | 19.6  | 18.6  | 15.4  | 9.4   | 2.5   | -3.1  |
| 1.0        | -8.4  | -8.2  | -4.7  | 3.5   | 10.8  | 16.1  | 17.2  | 16.0  | 13.3  | 7.3   | 0.1   | -5.3  |
| 1.5        | -9.8  | -9.7  | -6.6  | 0.7   | 7.8   | 13.0  | 13.9  | 12.9  | 10.8  | 4.9   | -1.9  | -6.8  |
| 2.0        | -11.2 | -10.9 | -8.4  | -1.8  | 5.0   | 10.0  | 10.9  | 10.2  | 8.5   | 2.8   | -3.8  | -7.8  |
| 2.5        | -12.5 | -12.8 | -10.2 | -4.3  | 2.3   | 7.5   | 8.2   | 7.7   | 6.2   | 0.7   | -6.1  | -9.5  |
| 3.0        | -14.3 | -14.6 | -12.2 | -6.6  | -0.3  | 5.0   | 5.7   | 5.5   | 4.0   | -1.4  | -8.3  | -11.5 |
| 4          | -19.7 | -19.4 | -17.5 | -11.9 | -5.7  | -0.3  | 0.4   | 0.6   | -1.1  | -6.5  | -13.2 | -16.4 |
| 5          | -25.6 | -25.1 | -23.0 | -17.9 | -11.4 | -6.0  | -5.3  | -5.0  | -6.5  | -12.2 | -18.9 | -22.0 |
| 6          | -32.4 | -31.8 | -29.7 | -24.4 | -17.9 | -12.1 | -11.6 | -11.2 | -12.9 | -18.6 | -25.4 | -28.2 |
| 7          | -39.2 | -38.5 | -36.6 | -31.7 | -25.2 | -18.6 | -18.2 | -18.1 | -19.7 | -25.5 | -32.1 | -34.8 |
| 8          | -45.6 | -44.8 | -43.4 | -38.9 | -32.5 | -25.7 | -25.3 | -25.1 | -26.9 | -33.1 | -38.6 | -41.6 |
| 9          | -50.8 | -49.8 | -49.5 | -45.7 | -40.0 | -35.0 | -32.3 | -32.3 | -34.2 | -39.5 | -45.8 | -47.2 |
| 10         | -53.9 | -53.4 | -53.7 | -51.6 | -47.0 | -40.3 | -40.0 | -39.3 | -41.2 | -46.1 | -51.4 | -51.4 |
| 11         | -54.8 | -53.1 | -55.2 | -55.0 | -52.6 | -46.9 | -46.6 | -45.9 | -47.6 | -51.5 | -54.3 | -53.6 |
| 12         | -54.1 | -52.2 | -55.0 | -56.4 | -56.6 | -52.8 | -52.7 | -51.1 | -53.2 | -55.4 | -56.6 | -53.7 |
| 13         | -54.3 | -51.5 | -54.4 | -56.7 | -58.3 | -57.6 | -56.8 | -54.8 | -57.5 | -57.8 | -57.8 | -55.1 |
| 14         | -55.6 | -52.4 | -54.8 | -56.3 | -58.1 | -60.3 | -58.9 | -58.6 | -60.9 | -59.5 | -58.9 | -56.4 |
| 15         | -56.4 | -53.7 | -55.5 | -56.7 | -57.7 | -61.0 | -60.4 | -60.6 | -63.0 | -61.0 | -60.4 | -57.9 |
| 16         | -57.1 | -54.4 | -56.2 | -58.0 | -58.2 | -61.3 | -60.7 | -61.6 | -64.2 | -61.7 | -61.2 | -58.6 |
| 17         | --    | --    | -56.9 | -58.1 | -58.3 | -60.9 | -59.6 | -60.1 | -64.2 | -61.4 | -61.4 | --    |
| 18         | --    | --    | --    | -58.2 | -58.3 | -60.2 | -58.1 | --    | -62.7 | -60.6 | --    | --    |
| 19         | --    | --    | --    | --    | --    | -58.5 | --    | --    | --    | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |    |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 105                    | 110 | 123 | 118 | 121 | 119 | 100 | 87 | 119 | 123 | 118 | 123 |
| 5       | 102                    | 104 | 118 | 117 | 115 | 116 | 98  | 97 | 116 | 120 | 108 | 118 |
| 10      | 80                     | 82  | 93  | 111 | 112 | 111 | 91  | 78 | 104 | 97  | 80  | 78  |
| 15      | 41                     | 43  | 72  | 89  | 93  | 94  | 74  | 58 | 68  | 66  | 39  | 35  |
| 18      | --                     | --  | --  | 32  | 51  | 60  | 37  | -- | 44  | 28  | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 221 meters, m.s.l.

BUFFALO, N. Y. 23

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 990  | 988  | 989  | 990  | 989 | 989  | 990  | 990  | 992   | 991  | 992  | 989  |
| 0.5      | 956  | 954  | 955  | 957  | 957 | 957  | 958  | 958  | 960   | 958  | 959  | 955  |
| 1.0      | 896  | 894  | 896  | 900  | 901 | 903  | 904  | 904  | 905   | 902  | 901  | 896  |
| 1.5      | 840  | 838  | 841  | 846  | 849 | 851  | 853  | 852  | 853   | 848  | 846  | 841  |
| 2.0      | 787  | 785  | 788  | 794  | 798 | 801  | 803  | 802  | 802   | 798  | 794  | 788  |
| 2.5      | 737  | 736  | 739  | 746  | 751 | 754  | 756  | 755  | 755   | 750  | 745  | 739  |
| 3.0      | 690  | 689  | 692  | 700  | 705 | 710  | 711  | 711  | 710   | 704  | 699  | 693  |
| 4        | 604  | 603  | 606  | 615  | 622 | 627  | 629  | 628  | 628   | 620  | 613  | 607  |
| 5        | 527  | 526  | 530  | 539  | 547 | 553  | 555  | 554  | 553   | 546  | 537  | 541  |
| 6        | 459  | 458  | 462  | 471  | 479 | 486  | 488  | 487  | 486   | 478  | 469  | 463  |
| 7        | 397  | 396  | 400  | 409  | 419 | 426  | 428  | 427  | 426   | 417  | 408  | 402  |
| 8        | 342  | 342  | 346  | 355  | 364 | 371  | 373  | 373  | 371   | 362  | 353  | 347  |
| 9        | 294  | 294  | 297  | 306  | 315 | 323  | 324  | 324  | 322   | 314  | 304  | 300  |
| 10       | 251  | 252  | 255  | 262  | 272 | 280  | 281  | 281  | 279   | 271  | 262  | 257  |
| 11       | 215  | 216  | 218  | 225  | 233 | 241  | 242  | 242  | 240   | 233  | 225  | 221  |
| 12       | 184  | 185  | 186  | 192  | 199 | 207  | 208  | 208  | 206   | 200  | 192  | 189  |
| 13       | 157  | 158  | 159  | 164  | 170 | 177  | 178  | 178  | 176   | 171  | 164  | 162  |
| 14       | 134  | 136  | 136  | 140  | 145 | 151  | 152  | 152  | 151   | 145  | 140  | 138  |
| 15       | 115  | 116  | 117  | 120  | 124 | 128  | 129  | 130  | 128   | 124  | 119  | 118  |
| 16       | 98   | 100  | 100  | 103  | 106 | 110  | 110  | 111  | 109   | 105  | 102  | 101  |
| 17       | --   | --   | 85   | 88   | 90  | 93   | 94   | 94   | 93    | 90   | 87   | --   |
| 18       | --   | --   | --   | 75   | 77  | 79   | 80   | --   | 79    | 76   | --   | --   |
| 19       | --   | --   | --   | --   | --  | 68   | --   | --   | 67    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 82   | 84   | 80   | 76   | 81  | 81   | 80   | 80   | 80    | 80   | 77   | 80   |
| 0.5      | 81   | 83   | 76   | 68   | 70  | 70   | 70   | 70   | 71    | 74   | 74   | 80   |
| 1.0      | 80   | 83   | 74   | 65   | 67  | 66   | 68   | 65   | 67    | 70   | 72   | 80   |
| 1.5      | 77   | 79   | 71   | 65   | 67  | 67   | 70   | 66   | 65    | 69   | 67   | 75   |
| 2.0      | 72   | 76   | 69   | 63   | 67  | 65   | 67   | 61   | 60    | 66   | 64   | 69   |
| 2.5      | 68   | 72   | 66   | 61   | 66  | 59   | 56   | 55   | 54    | 60   | 62   | 64   |
| 3.0      | 64   | 69   | 64   | 59   | 64  | 54   | 53   | 50   | 48    | 54   | 58   | 61   |
| 4        | 60   | 65   | 59   | 52   | 60  | 48   | 49   | 43   | 45    | 50   | 54   | 58   |
| 5        | 59   | 62   | 57   | 50   | 54  | 42   | 43   | 38   | 40    | 47   | 49   | 57   |
| 6        | 56   | 62   | 53   | 47   | 50  | 40   | 39   | 36   | 40    | 44   | 47   | 52   |
| 7        | 53   | 65   | 49   | 48   | 49  | 37   | 38   | 36   | 38    | 43   | 45   | 52   |
| 8        | --   | --   | --   | 48   | 49  | 36   | 40   | 35   | 35    | 45   | --   | --   |
| 9        | --   | --   | --   | --   | --  | 33   | 39   | 35   | 35    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |    |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 104 | 110 | 123 | 118 | 121 | 119 | 100 | 86 | 119 | 123 | 118 | 122 |
| 5       | 94  | 97  | 109 | 116 | 115 | 112 | 96  | 81 | 112 | 119 | 104 | 114 |
| 7       | 29  | 36  | 50  | 101 | 114 | 113 | 95  | 78 | 108 | 104 | 88  | 71  |
| 9       | --  | --  | --  | --  | --  | 51  | 46  | 37 | 51  | --  | --  | --  |

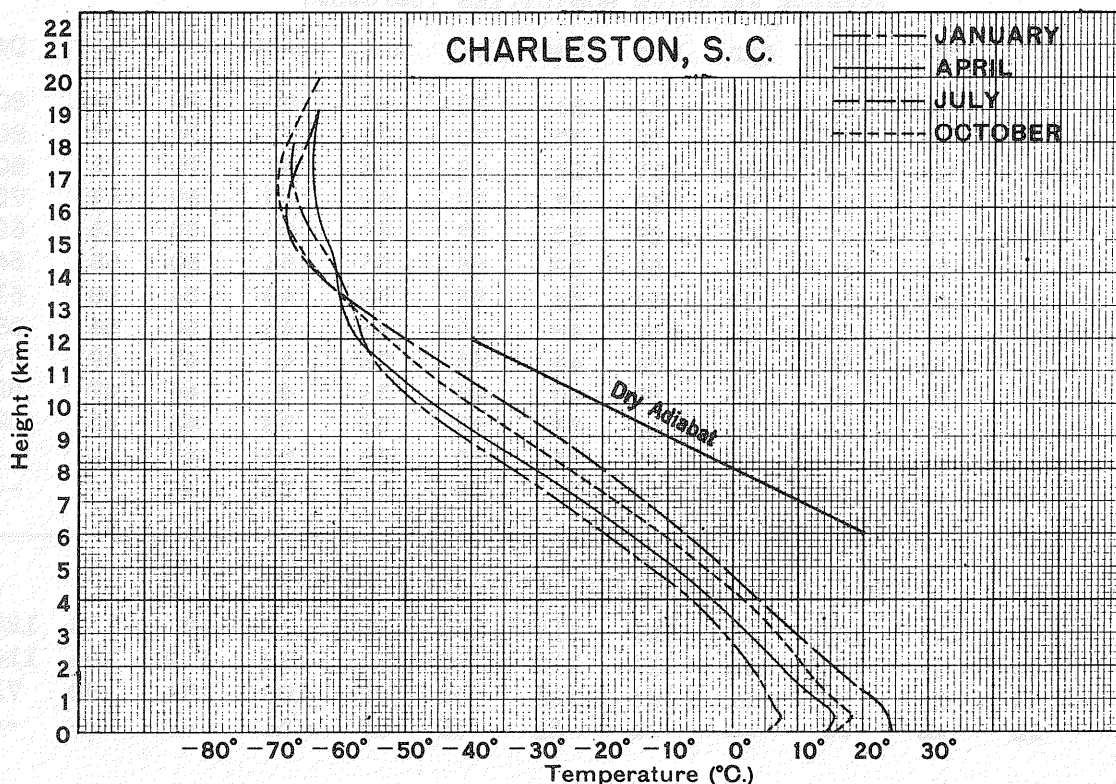
AVERAGE TEMPERATURES °C.

Charleston, S. C.  
Elevation: 14 meters, m.s.l.

Period of Record: July 1939-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 5.5   | 5.6   | 10.1  | 14.5  | 18.2  | 23.3  | 24.4  | 23.9  | 21.1  | 15.9  | 9.9   | 8.3   |
| 0.5        | 7.3   | 7.3   | 10.9  | 15.6  | 19.2  | 22.8  | 24.0  | 23.4  | 21.5  | 18.1  | 12.8  | 10.0  |
| 1.0        | 5.6   | 5.0   | 8.4   | 12.9  | 16.6  | 20.3  | 21.4  | 20.9  | 18.8  | 15.8  | 10.6  | 8.7   |
| 1.5        | 4.3   | 2.9   | 5.9   | 9.9   | 13.6  | 17.3  | 18.5  | 18.0  | 15.9  | 13.0  | 9.5   | 7.3   |
| 2.0        | 2.9   | 1.2   | 3.9   | 7.1   | 10.7  | 14.3  | 15.3  | 15.2  | 13.3  | 11.0  | 6.8   | 5.7   |
| 2.5        | 0.8   | -0.5  | 1.8   | 4.7   | 7.9   | 11.5  | 12.3  | 12.6  | 11.0  | 8.7   | 4.8   | 4.0   |
| 3.0        | -1.5  | -2.7  | -0.6  | 2.2   | 5.3   | 8.7   | 9.3   | 9.9   | 8.6   | 6.3   | 2.8   | 1.7   |
| 4          | -6.6  | -7.8  | -5.9  | -3.5  | -0.3  | 3.1   | 3.7   | 4.5   | 3.3   | 1.2   | -2.3  | -3.6  |
| 5          | -12.7 | -13.7 | -12.2 | -9.6  | -6.4  | -2.6  | -1.8  | -0.8  | -2.2  | -4.6  | -8.2  | -9.9  |
| 6          | -19.6 | -20.4 | -19.0 | -16.2 | -12.8 | -8.2  | -7.3  | -6.5  | -8.1  | -11.0 | -14.8 | -16.5 |
| 7          | -26.6 | -27.2 | -26.3 | -23.0 | -19.7 | -14.6 | -13.2 | -12.6 | -13.4 | -18.0 | -21.8 | -23.2 |
| 8          | -33.9 | -34.3 | -33.7 | -30.7 | -27.1 | -21.4 | -19.9 | -19.3 | -21.8 | -25.2 | -29.2 | -30.3 |
| 9          | -41.2 | -41.3 | -41.0 | -38.4 | -34.4 | -28.6 | -27.1 | -26.5 | -29.2 | -32.7 | -36.5 | -38.1 |
| 10         | -48.2 | -47.6 | -48.1 | -46.0 | -42.1 | -36.3 | -34.6 | -34.0 | -36.7 | -40.1 | -43.3 | -45.2 |
| 11         | -53.7 | -52.1 | -54.2 | -52.5 | -49.8 | -44.2 | -42.5 | -41.8 | -44.4 | -47.1 | -50.3 | -52.4 |
| 12         | -56.5 | -55.1 | -57.3 | -57.3 | -56.4 | -51.8 | -50.3 | -49.5 | -51.6 | -53.1 | -55.6 | -57.3 |
| 13         | -58.2 | -57.0 | -58.5 | -59.8 | -60.6 | -58.6 | -57.9 | -56.7 | -58.1 | -58.6 | -60.4 | -61.2 |
| 14         | -60.9 | -59.5 | -60.0 | -60.9 | -62.0 | -63.6 | -63.8 | -63.4 | -63.6 | -63.1 | -64.1 | -63.8 |
| 15         | -63.8 | -61.9 | -62.3 | -62.1 | -63.5 | -66.7 | -67.6 | -67.8 | -67.4 | -67.2 | -67.0 | -66.8 |
| 16         | -66.3 | -64.8 | -64.3 | -63.5 | -63.8 | -68.1 | -68.7 | -69.5 | -69.2 | -69.8 | -69.6 | -68.6 |
| 17         | -67.9 | -66.1 | -65.4 | -64.3 | -64.0 | -67.6 | -67.2 | -68.1 | -69.4 | -69.9 | -70.2 | -69.0 |
| 18         | -67.4 | --    | -64.9 | -64.0 | -63.1 | -66.1 | -65.0 | -65.5 | -67.3 | -68.1 | -69.5 | -68.5 |
| 19         | --    | --    | --    | -63.7 | -61.5 | -64.2 | -63.5 | -63.5 | -64.9 | -65.8 | -68.0 | --    |
| 20         | --    | --    | --    | --    | --    | --    | --    | -62.1 | -62.5 | -63.3 | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124                    | 117 | 124 | 119 | 122 | 120 | 116 | 152 | 149 | 155 | 150 | 151 |
| 5       | 123                    | 106 | 120 | 113 | 118 | 116 | 110 | 149 | 146 | 148 | 142 | 144 |
| 10      | 110                    | 96  | 113 | 101 | 78  | 104 | 99  | 137 | 134 | 131 | 129 | 118 |
| 15      | 63                     | 47  | 82  | 77  | 82  | 90  | 86  | 111 | 103 | 108 | 109 | 76  |
| 18      | 32                     | --  | 33  | 54  | 57  | 65  | 60  | 75  | 74  | 74  | 61  | 39  |





AVERAGE PRESSURES (Mbs.)

Elevation: 14 meters, m.s.l.

CHARLESTON, S. C.

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1019 | 1016 | 1016 | 1016 | 1016 | 1015 | 1015 | 1014 | 1016  | 1016 | 1020 | 1018 |
| 0.5      | 960  | 957  | 959  | 960  | 960  | 960  | 961  | 960  | 961   | 960  | 962  | 960  |
| 1.0      | 904  | 901  | 903  | 905  | 906  | 906  | 907  | 906  | 907   | 906  | 906  | 904  |
| 1.5      | 850  | 847  | 850  | 852  | 854  | 855  | 856  | 855  | 855   | 854  | 853  | 851  |
| 2.0      | 799  | 796  | 799  | 802  | 804  | 806  | 807  | 806  | 806   | 804  | 803  | 801  |
| 2.5      | 751  | 748  | 751  | 755  | 757  | 760  | 761  | 760  | 760   | 757  | 755  | 753  |
| 3.0      | 705  | 702  | 706  | 709  | 712  | 715  | 717  | 716  | 715   | 713  | 710  | 708  |
| 4        | 622  | 619  | 622  | 626  | 630  | 634  | 635  | 634  | 633   | 630  | 627  | 625  |
| 5        | 546  | 544  | 547  | 551  | 555  | 560  | 561  | 561  | 559   | 556  | 552  | 550  |
| 6        | 478  | 476  | 479  | 484  | 487  | 493  | 494  | 494  | 493   | 489  | 485  | 482  |
| 7        | 417  | 415  | 418  | 423  | 427  | 433  | 434  | 434  | 433   | 429  | 424  | 422  |
| 8        | 362  | 360  | 363  | 368  | 372  | 378  | 380  | 380  | 378   | 374  | 369  | 367  |
| 9        | 313  | 311  | 314  | 319  | 323  | 329  | 331  | 331  | 329   | 325  | 320  | 318  |
| 10       | 270  | 269  | 270  | 275  | 280  | 286  | 288  | 288  | 286   | 282  | 277  | 274  |
| 11       | 232  | 231  | 232  | 237  | 240  | 247  | 249  | 249  | 247   | 243  | 238  | 236  |
| 12       | 198  | 197  | 198  | 202  | 206  | 212  | 214  | 215  | 212   | 208  | 204  | 202  |
| 13       | 169  | 168  | 169  | 172  | 175  | 182  | 183  | 184  | 182   | 178  | 174  | 172  |
| 14       | 144  | 144  | 144  | 147  | 149  | 154  | 156  | 156  | 154   | 152  | 148  | 146  |
| 15       | 123  | 122  | 123  | 125  | 126  | 131  | 132  | 133  | 131   | 129  | 125  | 124  |
| 16       | 104  | 104  | 104  | 106  | 108  | 111  | 112  | 112  | 111   | 109  | 107  | 105  |
| 17       | 88   | 88   | 88   | 90   | 92   | 94   | 95   | 95   | 94    | 92   | 90   | 89   |
| 18       | 75   | --   | 75   | 77   | 78   | 80   | 81   | 81   | 79    | 78   | 76   | 76   |
| 19       | --   | --   | --   | 65   | 66   | 68   | 68   | 69   | 67    | 66   | 65   | --   |
| 20       | --   | --   | --   | --   | --   | --   | --   | 58   | 57    | 56   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 82   | 79   | 81   | 82   | 89  | 92   | 92   | 93   | 90    | 89   | 87   | 85   |
| 0.5      | 68   | 64   | 68   | 64   | 66  | 77   | 77   | 78   | 73    | 67   | 65   | 71   |
| 1.0      | 64   | 59   | 65   | 60   | 60  | 70   | 73   | 72   | 72    | 63   | 61   | 64   |
| 1.5      | 57   | 56   | 63   | 59   | 58  | 69   | 73   | 71   | 71    | 61   | 59   | 59   |
| 2.0      | 51   | 53   | 59   | 55   | 56  | 66   | 73   | 68   | 65    | 53   | 53   | 52   |
| 2.5      | 47   | 50   | 53   | 51   | 54  | 63   | 70   | 65   | 58    | 46   | 48   | 47   |
| 3.0      | 45   | 49   | 49   | 48   | 51  | 61   | 68   | 63   | 54    | 41   | 43   | 44   |
| 4        | 42   | 45   | 45   | 44   | 44  | 59   | 64   | 59   | 47    | 34   | 39   | 38   |
| 5        | 40   | 45   | 41   | 42   | 40  | 55   | 61   | 55   | 43    | 32   | 35   | 38   |
| 6        | 40   | 45   | 39   | 40   | 38  | 50   | 58   | 50   | 39    | 30   | 34   | 37   |
| 7        | 39   | 42   | 39   | 39   | 36  | 48   | 55   | 45   | 38    | 30   | 34   | 37   |
| 8        | 41   | 44   | 39   | 36   | 34  | 44   | 52   | 43   | 37    | 28   | 35   | 40   |
| 9        | --   | --   | --   | 36   | 37  | 42   | 52   | 42   | 38    | 27   | 40   | 45   |
| 10       | --   | --   | --   | --   | --  | 42   | 52   | 45   | 26    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124 | 112 | 124 | 119 | 121 | 120 | 115 | 152 | 149 | 154 | 150 | 150 |
| 5       | 116 | 103 | 118 | 107 | 114 | 114 | 107 | 145 | 137 | 141 | 138 | 139 |
| 7       | 104 | 95  | 112 | 104 | 111 | 107 | 103 | 143 | 133 | 137 | 131 | 129 |
| 9       | --  | --  | --  | 26  | 37  | 82  | 93  | 120 | 106 | 89  | 45  | 32  |

AVERAGE TEMPERATURES °C.

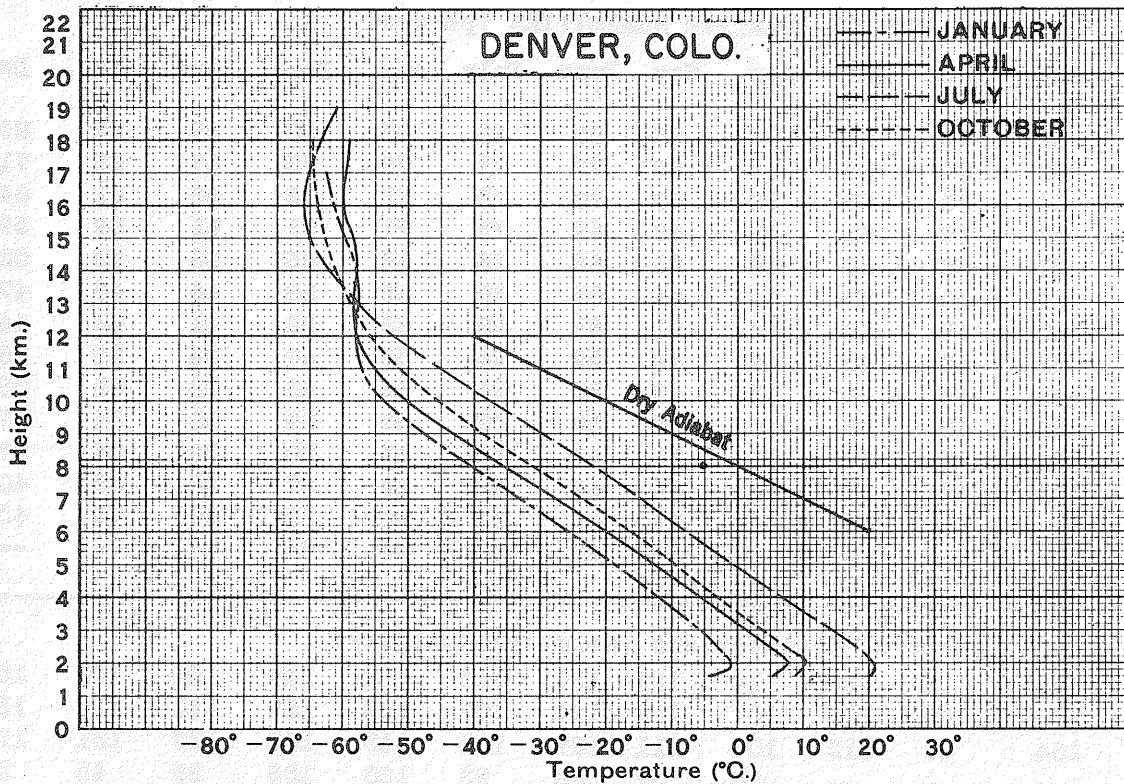
Denver, Colo.

Elevation: 1,616 meters, m.s.l.

Period of Record: July 1939-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -4.4  | -2.0  | 1.0   | 5.0   | 11.4  | 16.6  | 20.1  | 19.2  | 14.8  | 8.9   | 0.7   | -1.6  |
| 2.0        | -1.1  | -0.1  | 1.9   | 7.8   | 11.4  | 16.6  | 20.8  | 19.8  | 16.1  | 10.4  | 5.0   | -0.6  |
| 2.5        | -3.2  | -2.4  | -0.9  | 4.6   | 8.4   | 13.7  | 18.0  | 17.0  | 13.2  | 7.4   | 2.8   | -1.3  |
| 3.0        | -5.9  | -5.5  | -4.4  | 1.3   | 5.2   | 10.3  | 14.5  | 13.6  | 9.9   | 3.9   | -0.4  | -3.0  |
| 4          | -12.2 | -12.2 | -11.4 | -5.8  | -1.7  | 3.2   | 6.6   | 6.2   | 2.9   | -3.0  | -7.3  | -9.2  |
| 5          | -18.6 | -19.0 | -18.1 | -13.1 | -9.1  | -4.4  | -1.1  | -1.4  | -4.4  | -9.9  | -13.7 | -15.7 |
| 6          | -25.5 | -25.9 | -25.1 | -20.1 | -16.3 | -11.8 | -8.2  | -8.3  | -10.9 | -16.6 | -20.5 | -22.6 |
| 7          | -32.7 | -33.3 | -32.6 | -27.4 | -23.5 | -18.8 | -14.9 | -14.7 | -17.7 | -23.8 | -27.9 | -30.0 |
| 8          | -40.4 | -41.0 | -40.3 | -35.3 | -31.0 | -26.1 | -22.0 | -21.6 | -24.9 | -31.3 | -35.5 | -37.8 |
| 9          | -47.8 | -47.8 | -47.6 | -43.2 | -38.7 | -33.6 | -29.5 | -29.0 | -32.4 | -39.1 | -43.3 | -45.2 |
| 10         | -54.1 | -52.9 | -54.0 | -50.3 | -46.0 | -41.3 | -37.1 | -36.7 | -40.1 | -45.6 | -50.2 | -51.6 |
| 11         | -57.5 | -55.7 | -58.1 | -55.3 | -52.7 | -48.4 | -45.0 | -44.3 | -47.7 | -51.6 | -55.5 | -55.3 |
| 12         | -58.0 | -54.7 | -58.6 | -58.1 | -56.8 | -54.2 | -52.1 | -51.2 | -53.2 | -56.0 | -58.5 | -57.0 |
| 13         | -57.5 | -55.6 | -57.3 | -58.5 | -59.6 | -57.8 | -57.8 | -57.3 | -57.7 | -58.9 | -60.0 | -57.7 |
| 14         | -58.0 | -55.8 | -57.3 | -57.9 | -59.4 | -59.9 | -62.1 | -62.3 | -61.5 | -61.3 | -61.3 | -59.1 |
| 15         | -59.7 | -58.0 | -58.0 | -58.4 | -59.5 | -61.6 | -65.1 | -65.3 | -64.5 | -62.7 | -63.1 | -60.5 |
| 16         | -61.4 | -59.6 | -59.9 | -60.0 | -59.9 | -62.7 | -66.0 | -66.6 | -66.1 | -63.9 | -64.0 | -62.2 |
| 17         | -62.3 | -60.7 | -59.5 | -59.4 | -59.5 | -62.3 | -65.3 | -66.4 | -66.0 | -64.4 | -64.4 | -62.7 |
| 18         | --    | -60.8 | -59.7 | -59.1 | -59.4 | -60.9 | -63.3 | -62.7 | -64.7 | -64.6 | -64.0 | --    |
| 19         | --    | --    | --    | --    | -58.9 | -59.4 | -61.0 | -60.4 | -62.5 | --    | --    | --    |
| 20         | --    | --    | --    | --    | --    | --    | --    | -59.0 | -60.8 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124                    | 113 | 124 | 120 | 121 | 119 | 122 | 153 | 149 | 153 | 148 | 154 |
| 5       | 123                    | 111 | 123 | 119 | 120 | 118 | 121 | 149 | 146 | 148 | 144 | 153 |
| 10      | 109                    | 89  | 114 | 109 | 110 | 108 | 115 | 143 | 132 | 130 | 129 | 119 |
| 15      | 71                     | 64  | 83  | 78  | 83  | 83  | 93  | 120 | 104 | 88  | 82  | 78  |
| 18      | --                     | 25  | 27  | 32  | 51  | 48  | 55  | 88  | 67  | 42  | 42  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 1,616 meters, m.s.l.

DENVER, COLO.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 838  | 836  | 835  | 835  | 837 | 838  | 841  | 840  | 840   | 839  | 840  | 837  |
| 2.0      | 798  | 796  | 796  | 797  | 799 | 801  | 804  | 804  | 803   | 801  | 801  | 798  |
| 2.5      | 749  | 748  | 748  | 750  | 752 | 755  | 759  | 758  | 756   | 754  | 753  | 750  |
| 3.0      | 703  | 702  | 702  | 705  | 708 | 711  | 716  | 714  | 712   | 709  | 707  | 704  |
| 4        | 618  | 617  | 618  | 622  | 625 | 629  | 635  | 634  | 631   | 626  | 623  | 620  |
| 5        | 541  | 541  | 542  | 546  | 551 | 556  | 561  | 560  | 557   | 551  | 548  | 544  |
| 6        | 473  | 472  | 473  | 478  | 483 | 489  | 495  | 493  | 490   | 483  | 479  | 476  |
| 7        | 411  | 410  | 411  | 417  | 422 | 428  | 434  | 433  | 429   | 422  | 418  | 414  |
| 8        | 356  | 355  | 356  | 362  | 368 | 374  | 380  | 379  | 375   | 367  | 363  | 359  |
| 9        | 306  | 305  | 306  | 313  | 318 | 324  | 330  | 330  | 326   | 318  | 313  | 310  |
| 10       | 263  | 262  | 263  | 269  | 275 | 281  | 287  | 286  | 282   | 274  | 269  | 266  |
| 11       | 225  | 224  | 224  | 230  | 236 | 242  | 247  | 247  | 243   | 236  | 230  | 228  |
| 12       | 192  | 191  | 191  | 197  | 202 | 208  | 213  | 213  | 209   | 202  | 197  | 194  |
| 13       | 164  | 164  | 163  | 168  | 172 | 178  | 182  | 182  | 178   | 172  | 168  | 166  |
| 14       | 140  | 140  | 139  | 143  | 146 | 151  | 155  | 155  | 152   | 148  | 143  | 142  |
| 15       | 119  | 120  | 119  | 122  | 124 | 129  | 132  | 132  | 129   | 125  | 122  | 121  |
| 16       | 102  | 102  | 102  | 104  | 106 | 110  | 112  | 112  | 110   | 106  | 104  | 103  |
| 17       | 87   | 87   | 87   | 89   | 91  | 93   | 95   | 95   | 93    | 90   | 88   | 88   |
| 18       | --   | 75   | 74   | 76   | 77  | 79   | 81   | 80   | 79    | 77   | 75   | --   |
| 19       | --   | --   | --   | --   | 66  | 68   | 69   | 69   | 67    | 66   | --   | --   |
| 20       | --   | --   | --   | --   | --  | --   | --   | 58   | 57    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 69   | 58   | 65   | 64   | 66  | 62   | 56   | 59   | 60    | 60   | 63   | 65   |
| 2.0      | 63   | 63   | 59   | 58   | 58  | 54   | 47   | 51   | 53    | 53   | 53   | 57   |
| 2.5      | 58   | 59   | 56   | 57   | 57  | 52   | 45   | 50   | 52    | 51   | 49   | 52   |
| 3.0      | 56   | 56   | 56   | 58   | 58  | 53   | 46   | 50   | 53    | 51   | 47   | 51   |
| 4        | 56   | 55   | 57   | 61   | 59  | 56   | 55   | 57   | 57    | 51   | 48   | 50   |
| 5        | 57   | 55   | 56   | 63   | 59  | 57   | 64   | 63   | 60    | 51   | 47   | 49   |
| 6        | 54   | 50   | 54   | 58   | 57  | 56   | 65   | 64   | 55    | 49   | 39   | 47   |
| 7        | 49   | 47   | 53   | 53   | 53  | 51   | 58   | 57   | 49    | 47   | 41   | 46   |
| 8        | 47   | --   | --   | 53   | 50  | 50   | 56   | 52   | 48    | 46   | 40   | 39   |
| 9        | --   | --   | --   | --   | 48  | 49   | 55   | 50   | 46    | 45   | --   | --   |
| 10       | --   | --   | --   | --   | --  | --   | 55   | 49   | 48    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 121 | 112 | 122 | 120 | 121 | 119 | 122 | 153 | 148 | 151 | 147 | 153 |
| 5       | 118 | 108 | 117 | 113 | 118 | 116 | 118 | 147 | 143 | 146 | 137 | 146 |
| 7       | 90  | 78  | 99  | 108 | 116 | 112 | 115 | 145 | 131 | 136 | 126 | 130 |
| 9       | --  | --  | --  | --  | 45  | 68  | 92  | 124 | 84  | 34  | --  | --  |

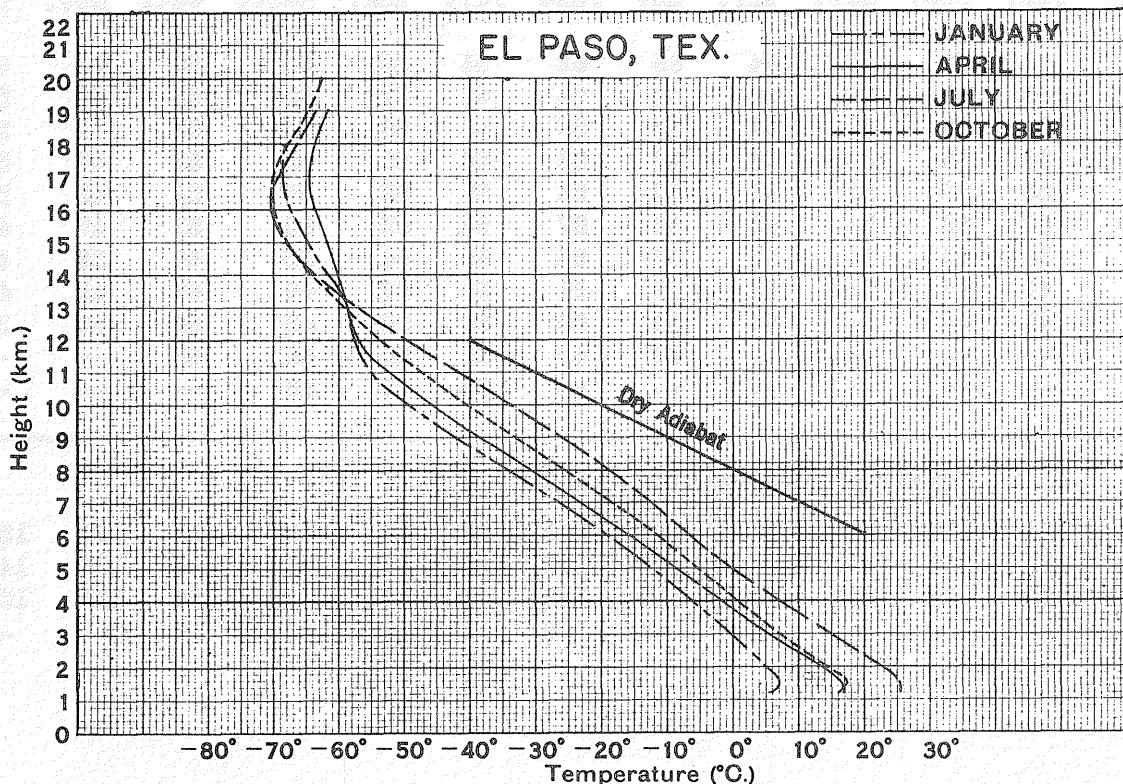
AVERAGE TEMPERATURES °C.

El Paso, Texas  
Elevation: 1,195 meters, m.s.l.

Period of Record: July 1939-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 5.7   | 9.1   | 12.2  | 16.7  | 22.4  | 25.6  | 25.5  | 24.7  | 22.0  | 16.0  | 9.4   | 6.7   |
| 1.5        | 7.2   | 10.1  | 12.9  | 15.9  | 21.4  | 25.3  | 25.4  | 24.7  | 22.4  | 17.6  | 11.5  | 9.1   |
| 2.0        | 5.0   | 7.0   | 9.5   | 13.5  | 19.0  | 22.1  | 22.5  | 21.9  | 19.4  | 14.5  | 9.1   | 6.8   |
| 2.5        | 2.7   | 3.6   | 5.9   | 9.6   | 15.1  | 18.3  | 18.7  | 18.1  | 15.8  | 10.9  | 6.2   | 4.3   |
| 3.0        | -0.5  | 0.5   | 2.2   | 5.7   | 11.0  | 14.4  | 14.8  | 14.1  | 12.0  | 7.3   | 2.4   | 1.6   |
| 4          | -6.1  | -6.0  | -4.9  | -1.7  | 3.0   | 6.3   | 6.8   | 6.6   | 4.8   | 0.8   | -2.1  | -4.0  |
| 5          | -12.5 | -12.4 | -11.9 | -8.9  | -4.8  | -1.4  | -0.7  | -0.3  | -1.6  | -5.4  | -8.4  | -10.5 |
| 6          | -19.5 | -19.2 | -18.7 | -16.1 | -12.0 | -8.3  | -6.7  | -6.2  | -7.2  | -11.9 | -15.2 | -17.5 |
| 7          | -26.8 | -26.4 | -25.9 | -23.3 | -19.2 | -14.9 | -12.6 | -11.9 | -13.5 | -18.9 | -22.3 | -24.8 |
| 8          | -34.3 | -33.6 | -33.4 | -30.9 | -26.6 | -21.8 | -19.0 | -18.4 | -20.5 | -25.9 | -29.7 | -32.1 |
| 9          | -42.1 | -40.7 | -40.8 | -38.4 | -34.1 | -29.2 | -26.1 | -25.4 | -27.7 | -33.2 | -37.0 | -39.2 |
| 10         | -49.3 | -47.2 | -47.8 | -45.7 | -41.6 | -36.9 | -33.8 | -33.0 | -35.2 | -40.5 | -44.4 | -46.4 |
| 11         | -55.3 | -52.4 | -54.0 | -52.3 | -48.8 | -44.6 | -41.7 | -40.9 | -42.7 | -47.4 | -51.6 | -52.4 |
| 12         | -57.7 | -55.7 | -57.6 | -57.0 | -55.2 | -51.5 | -49.7 | -48.8 | -49.8 | -53.5 | -57.3 | -56.6 |
| 13         | -58.8 | -57.9 | -58.8 | -58.9 | -60.3 | -57.0 | -57.3 | -56.6 | -56.7 | -59.1 | -61.0 | -59.6 |
| 14         | -61.9 | -60.0 | -59.9 | -60.1 | -62.7 | -61.3 | -63.8 | -63.6 | -63.2 | -64.0 | -64.1 | -62.9 |
| 15         | -64.8 | -63.1 | -62.5 | -61.8 | -63.3 | -64.7 | -68.5 | -69.3 | -68.7 | -68.0 | -66.9 | -65.1 |
| 16         | -67.7 | -66.0 | -65.0 | -63.7 | -64.6 | -67.5 | -70.7 | -71.6 | -71.8 | -70.3 | -68.4 | -67.9 |
| 17         | -68.9 | -67.5 | -66.0 | -64.6 | -65.5 | -68.2 | -69.2 | -69.8 | -71.4 | -70.3 | -68.5 | -67.8 |
| 18         | -68.1 | -66.8 | -65.8 | -63.3 | -64.9 | -66.7 | -66.1 | -66.5 | -68.5 | -67.8 | -67.7 | -67.0 |
| 19         | --    | --    | --    | -61.3 | --    | -64.5 | -63.5 | -63.7 | -65.2 | -64.4 | -65.7 | --    |
| 20         | --    | --    | --    | --    | --    | --    | --    | -61.6 | -62.0 | -62.9 | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124                    | 113 | 123 | 119 | 124 | 120 | 133 | 144 | 150 | 155 | 144 | 155 |
| 5       | 122                    | 111 | 118 | 118 | 120 | 119 | 133 | 142 | 148 | 150 | 139 | 153 |
| 10      | 101                    | 101 | 116 | 111 | 112 | 114 | 114 | 139 | 138 | 133 | 122 | 124 |
| 15      | 71                     | 75  | 103 | 94  | 87  | 107 | 106 | 133 | 126 | 110 | 107 | 96  |
| 18      | 31                     | 27  | 50  | 45  | 37  | 69  | 72  | 97  | 94  | 74  | 65  | 42  |



AVERAGE PRESSURES (Mbs.)

Elevation: 1,195 meters, m.s.l.

EL PASO, TEX.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 885  | 882  | 880  | 879  | 879 | 879  | 883  | 882  | 882   | 883  | 885  | 884  |
| 1.5      | 852  | 850  | 849  | 848  | 849 | 849  | 853  | 852  | 852   | 852  | 853  | 852  |
| 2.0      | 802  | 800  | 799  | 799  | 801 | 802  | 805  | 804  | 804   | 803  | 803  | 801  |
| 2.5      | 754  | 752  | 752  | 753  | 755 | 756  | 760  | 759  | 758   | 757  | 756  | 754  |
| 3.0      | 708  | 707  | 707  | 708  | 711 | 713  | 716  | 715  | 714   | 712  | 711  | 709  |
| 4        | 624  | 623  | 624  | 626  | 630 | 633  | 636  | 635  | 633   | 630  | 628  | 625  |
| 5        | 549  | 548  | 549  | 551  | 556 | 559  | 562  | 561  | 560   | 556  | 553  | 550  |
| 6        | 480  | 480  | 481  | 484  | 489 | 493  | 496  | 495  | 493   | 488  | 485  | 482  |
| 7        | 419  | 419  | 420  | 423  | 428 | 433  | 436  | 435  | 433   | 428  | 424  | 421  |
| 8        | 364  | 364  | 364  | 368  | 374 | 378  | 381  | 381  | 379   | 374  | 370  | 366  |
| 9        | 315  | 315  | 315  | 319  | 324 | 329  | 333  | 332  | 330   | 324  | 320  | 317  |
| 10       | 271  | 271  | 272  | 275  | 281 | 286  | 289  | 289  | 287   | 281  | 277  | 273  |
| 11       | 232  | 233  | 233  | 236  | 242 | 247  | 250  | 250  | 248   | 242  | 238  | 235  |
| 12       | 199  | 199  | 199  | 202  | 207 | 212  | 215  | 216  | 213   | 208  | 203  | 201  |
| 13       | 170  | 170  | 170  | 173  | 176 | 181  | 184  | 185  | 183   | 178  | 173  | 171  |
| 14       | 145  | 145  | 145  | 147  | 150 | 155  | 157  | 157  | 156   | 151  | 147  | 146  |
| 15       | 123  | 123  | 123  | 125  | 128 | 131  | 133  | 133  | 132   | 128  | 125  | 124  |
| 16       | 104  | 105  | 105  | 106  | 108 | 111  | 113  | 113  | 112   | 109  | 106  | 105  |
| 17       | 88   | 89   | 89   | 90   | 92  | 94   | 95   | 95   | 94    | 92   | 90   | 89   |
| 18       | 75   | 75   | 76   | 77   | 78  | 79   | 80   | 80   | 79    | 78   | 76   | 75   |
| 19       | --   | --   | --   | 65   | --  | 68   | 68   | 68   | 68    | 66   | 65   | --   |
| 20       | --   | --   | --   | --   | --  | --   | --   | 58   | 57    | 56   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 57   | 44   | 36   | 32   | 29  | 34   | 47   | 53   | 52    | 51   | 54   | 61   |
| 1.5      | 55   | 44   | 35   | 31   | 28  | 34   | 43   | 49   | 48    | 45   | 50   | 51   |
| 2.0      | 52   | 43   | 35   | 31   | 27  | 33   | 43   | 49   | 49    | 44   | 48   | 48   |
| 2.5      | 51   | 43   | 34   | 32   | 27  | 34   | 46   | 53   | 52    | 46   | 47   | 45   |
| 3.0      | 49   | 44   | 34   | 33   | 28  | 36   | 51   | 59   | 54    | 48   | 46   | 42   |
| 4        | 44   | 43   | 35   | 36   | 31  | 43   | 61   | 67   | 61    | 47   | 42   | 39   |
| 5        | 42   | 40   | 34   | 37   | 34  | 46   | 68   | 68   | 60    | 41   | 38   | 35   |
| 6        | 40   | 37   | 32   | 34   | 34  | 46   | 65   | 61   | 52    | 37   | 35   | 36   |
| 7        | 39   | 37   | 31   | 33   | 32  | 40   | 57   | 53   | 45    | 39   | 35   | 35   |
| 8        | 38   | 35   | 29   | 30   | 32  | 37   | 53   | 48   | 44    | 37   | 34   | 33   |
| 9        | --   | --   | --   | --   | 27  | 38   | 52   | 51   | 43    | 38   | 34   | --   |
| 10       | --   | --   | --   | --   | --  | --   | 53   | 52   | 45    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124 | 113 | 123 | 120 | 124 | 120 | 133 | 143 | 150 | 155 | 144 | 155 |
| 5       | 117 | 110 | 117 | 116 | 119 | 117 | 132 | 138 | 144 | 149 | 136 | 150 |
| 7       | 107 | 106 | 116 | 113 | 116 | 115 | 116 | 137 | 135 | 124 | 108 | 139 |
| 9       | --  | --  | --  | --  | 49  | 71  | 104 | 104 | 106 | 82  | 42  | --  |

AVERAGE TEMPERATURES °C.

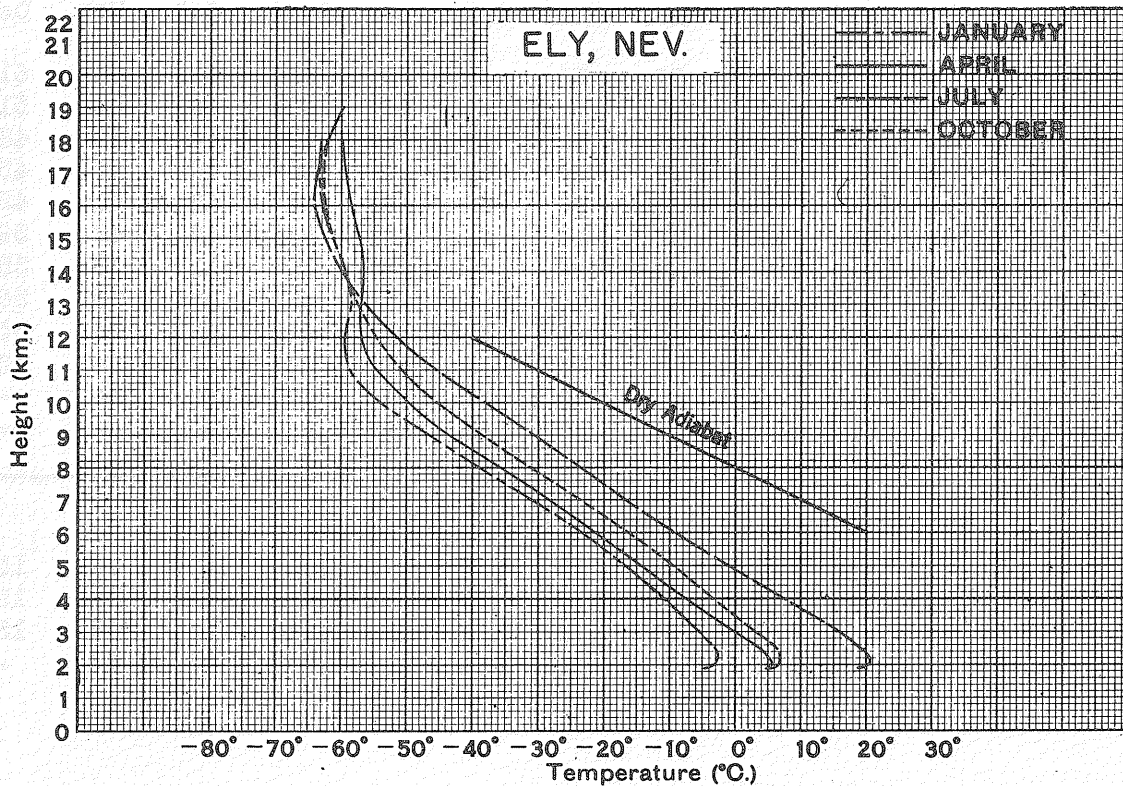
Ely, Nev.

Elevation: 1,908 meters, m.s.l.

Period of Record: July 1939-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -4.9  | -2.2  | 0.5   | 4.6   | 9.6   | 13.9  | 18.9  | 16.7  | 11.9  | 5.0   | -1.2  | -3.1  |
| 2.0        | -3.2  | -1.5  | 1.5   | 5.6   | 10.9  | 15.6  | 20.7  | 18.6  | 13.7  | 6.8   | 1.2   | -1.3  |
| 2.5        | -3.1  | -3.1  | 0.0   | 3.8   | 9.0   | 14.0  | 19.7  | 18.2  | 13.0  | 6.4   | 2.2   | -1.3  |
| 3.0        | -5.5  | -6.2  | -3.2  | -0.1  | 5.0   | 10.0  | 15.9  | 14.3  | 9.2   | 3.0   | -0.4  | -3.9  |
| 4          | -10.8 | -11.9 | -10.4 | -7.5  | -2.9  | 1.8   | 7.3   | 6.0   | 1.4   | -3.5  | -6.1  | -9.3  |
| 5          | -17.0 | -18.6 | -16.5 | -14.6 | -10.3 | -6.1  | -1.2  | -2.3  | -5.4  | -9.7  | -12.2 | -15.3 |
| 6          | -23.7 | -25.7 | -23.5 | -21.3 | -17.1 | -13.6 | -9.5  | -9.8  | -12.0 | -16.7 | -19.3 | -22.6 |
| 7          | -31.3 | -33.0 | -31.1 | -28.7 | -24.0 | -20.3 | -16.2 | -16.0 | -19.1 | -23.8 | -26.5 | -30.1 |
| 8          | -39.1 | -40.4 | -38.8 | -36.2 | -31.2 | -27.9 | -23.3 | -23.0 | -26.8 | -31.3 | -34.0 | -37.5 |
| 9          | -47.1 | -47.3 | -46.1 | -43.6 | -38.9 | -35.6 | -30.8 | -30.6 | -34.4 | -38.7 | -41.4 | -44.4 |
| 10         | -54.0 | -52.9 | -52.8 | -49.9 | -46.2 | -42.7 | -38.3 | -38.2 | -41.7 | -45.6 | -48.4 | -50.4 |
| 11         | -58.9 | -56.1 | -57.7 | -54.5 | -52.5 | -48.9 | -45.5 | -45.4 | -48.0 | -51.0 | -54.7 | -54.9 |
| 12         | -59.4 | -55.9 | -59.5 | -57.0 | -56.7 | -53.9 | -51.6 | -51.5 | -52.9 | -54.9 | -58.6 | -57.1 |
| 13         | -58.3 | -55.8 | -58.7 | -57.0 | -58.9 | -57.0 | -56.3 | -56.8 | -56.4 | -57.5 | -60.2 | -58.2 |
| 14         | -59.2 | -57.0 | -58.1 | -56.7 | -59.0 | -58.3 | -60.0 | -61.1 | -59.0 | -59.6 | -61.3 | -59.6 |
| 15         | -61.1 | -58.9 | -59.0 | -57.3 | -58.7 | -59.7 | -62.8 | -64.0 | -61.3 | -61.3 | -62.0 | -61.7 |
| 16         | -63.1 | -60.5 | -60.0 | -58.6 | -59.1 | -60.8 | -64.3 | -64.4 | -62.6 | -62.5 | -64.2 | -63.5 |
| 17         | -63.5 | -61.6 | -60.5 | -59.3 | -59.6 | -61.3 | -63.7 | -63.2 | -62.8 | -62.7 | -64.3 | -63.6 |
| 18         | -63.2 | -62.3 | -60.5 | -59.9 | -59.4 | -60.6 | -61.7 | -60.4 | -61.8 | -62.2 | -62.6 | --    |
| 19         | --    | --    | --    | --    | --    | -59.9 | -59.7 | -58.6 | -60.9 | --    | --    | --    |
| 20         | --    | --    | --    | --    | --    | --    | --    | -56.4 | -59.3 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 123                    | 112 | 121 | 120 | 124 | 120 | 108 | 146 | 151 | 150 | 150 | 155 |
| 5       | 122                    | 111 | 121 | 117 | 119 | 119 | 107 | 144 | 148 | 148 | 148 | 154 |
| 10      | 111                    | 106 | 108 | 108 | 101 | 108 | 102 | 137 | 142 | 130 | 133 | 139 |
| 15      | 86                     | 75  | 96  | 93  | 79  | 84  | 83  | 122 | 112 | 106 | 104 | 109 |
| 18      | 26                     | 30  | 42  | 45  | 41  | 61  | 53  | 90  | 76  | 48  | 28  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 1,908 meters, m.s.l.

ELY, NEV.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 810  | 808  | 807  | 806  | 808 | 808  | 812  | 811  | 810   | 810  | 812  | 810  |
| 2.0      | 801  | 799  | 799  | 797  | 799 | 800  | 803  | 802  | 801   | 801  | 803  | 800  |
| 2.5      | 752  | 750  | 750  | 750  | 752 | 754  | 758  | 757  | 755   | 754  | 755  | 752  |
| 3.0      | 706  | 704  | 705  | 705  | 708 | 710  | 714  | 714  | 711   | 709  | 709  | 706  |
| 4        | 621  | 618  | 620  | 621  | 625 | 628  | 634  | 633  | 629   | 626  | 625  | 621  |
| 5        | 544  | 542  | 544  | 546  | 551 | 554  | 561  | 559  | 555   | 551  | 549  | 545  |
| 6        | 475  | 473  | 475  | 477  | 483 | 487  | 494  | 492  | 488   | 483  | 481  | 476  |
| 7        | 414  | 411  | 413  | 416  | 422 | 426  | 433  | 432  | 428   | 422  | 420  | 415  |
| 8        | 358  | 356  | 358  | 361  | 367 | 372  | 378  | 377  | 373   | 368  | 365  | 360  |
| 9        | 309  | 307  | 309  | 312  | 318 | 322  | 329  | 328  | 324   | 318  | 315  | 310  |
| 10       | 265  | 263  | 265  | 268  | 274 | 279  | 285  | 285  | 280   | 275  | 272  | 267  |
| 11       | 227  | 226  | 227  | 230  | 236 | 240  | 246  | 246  | 241   | 236  | 233  | 229  |
| 12       | 193  | 192  | 194  | 196  | 202 | 206  | 212  | 211  | 207   | 202  | 199  | 196  |
| 13       | 165  | 165  | 165  | 168  | 172 | 176  | 181  | 181  | 177   | 172  | 170  | 167  |
| 14       | 140  | 140  | 141  | 143  | 147 | 150  | 155  | 154  | 151   | 147  | 144  | 142  |
| 15       | 119  | 120  | 120  | 122  | 125 | 128  | 131  | 131  | 129   | 125  | 123  | 121  |
| 16       | 102  | 102  | 102  | 104  | 107 | 109  | 112  | 111  | 110   | 107  | 105  | 103  |
| 17       | 86   | 87   | 87   | 89   | 91  | 93   | 95   | 94   | 93    | 91   | 89   | 88   |
| 18       | 74   | 74   | 74   | 76   | 78  | 79   | 81   | 81   | 79    | 77   | 75   | --   |
| 19       | --   | --   | --   | --   | --  | 68   | 69   | 70   | 68    | --   | --   | --   |
| 20       | --   | --   | --   | --   | --  | --   | --   | 59   | 58    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 81   | 81   | 71   | 68   | 47  | 40   | 37   | 40   | 47    | 62   | 67   | 74   |
| 2.0      | 78   | 79   | 67   | 65   | 45  | 38   | 35   | 37   | 45    | 58   | 64   | 72   |
| 2.5      | 72   | 74   | 62   | 60   | 42  | 37   | 32   | 34   | 42    | 52   | 56   | 67   |
| 3.0      | 69   | 73   | 62   | 60   | 43  | 37   | 32   | 34   | 42    | 52   | 53   | 65   |
| 4        | 64   | 67   | 59   | 59   | 47  | 40   | 35   | 37   | 45    | 51   | 49   | 61   |
| 5        | 59   | 61   | 55   | 58   | 50  | 42   | 42   | 45   | 44    | 48   | 45   | 56   |
| 6        | 57   | 59   | 53   | 56   | 49  | 42   | 46   | 50   | 41    | 44   | 43   | 53   |
| 7        | 53   | 55   | 49   | 53   | 46  | 41   | 46   | 47   | 38    | 42   | 41   | 51   |
| 8        | 49   | 50   | 45   | 48   | 43  | 38   | 43   | 44   | 37    | 38   | 40   | 46   |
| 9        | --   | --   | --   | --   | 43  | 32   | 44   | 42   | 36    | 36   | --   | --   |
| 10       | --   | --   | --   | --   | --  | --   | 38   | 48   | 39    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 123 | 112 | 121 | 120 | 123 | 119 | 108 | 146 | 151 | 148 | 148 | 153 |
| 5       | 121 | 109 | 119 | 113 | 117 | 117 | 107 | 141 | 147 | 145 | 143 | 149 |
| 7       | 104 | 87  | 103 | 103 | 107 | 115 | 106 | 139 | 144 | 138 | 127 | 122 |
| 9       | --  | --  | --  | --  | 31  | 72  | 92  | 124 | 110 | 54  | --  | --  |

AVERAGE TEMPERATURES °C.

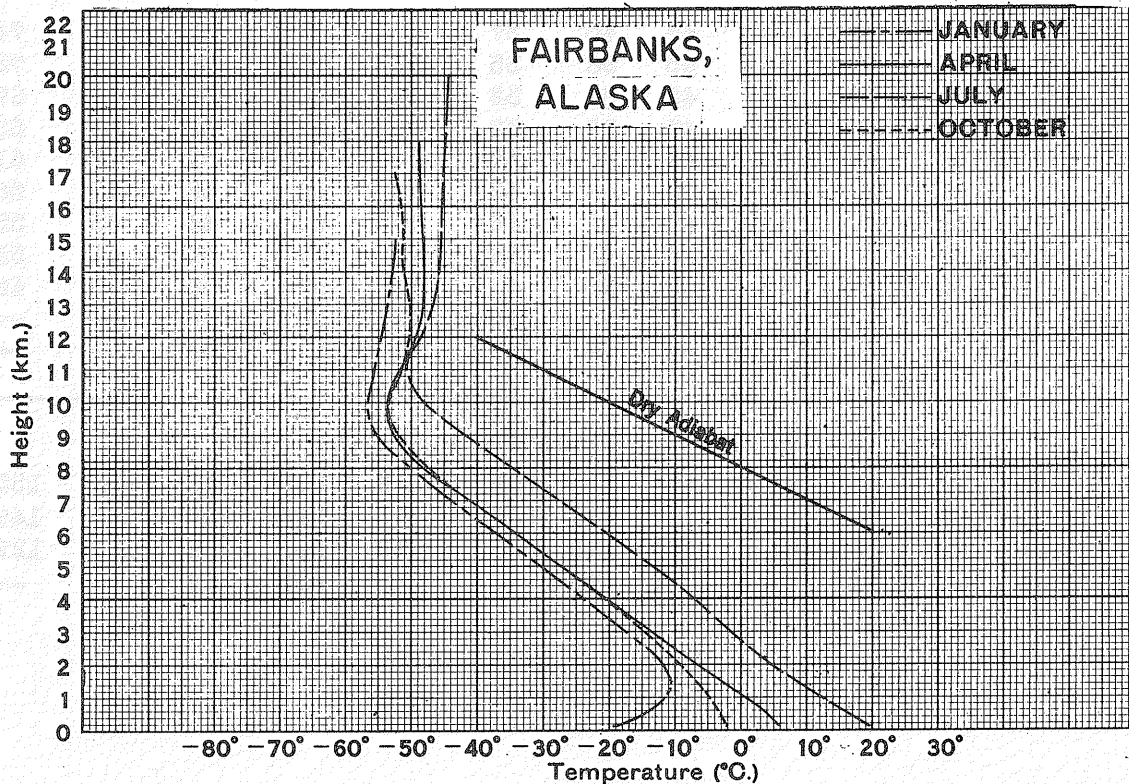
Fairbanks, Alaska  
Elevation: 134 meters, m.s.l.

Period of Record: September 1939-July 1940  
November 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -19.4 | -10.1 | -7.9  | 5.9   | 13.8  | 19.8  | 19.5  | 16.7  | 9.8   | -2.1  | -15.3 | -19.1 |
| 0.5        | -14.5 | -7.7  | -8.8  | 4.0   | 10.9  | 16.8  | 16.5  | 13.8  | 7.8   | -3.0  | -13.0 | -14.0 |
| 1.0        | -11.6 | -7.4  | -10.8 | 0.4   | 6.7   | 12.7  | 12.4  | 9.8   | 4.2   | -4.8  | -12.0 | -12.3 |
| 1.5        | -10.5 | -8.2  | -12.0 | -3.2  | 2.6   | 8.5   | 8.4   | 6.2   | 0.8   | -6.9  | -12.2 | -11.8 |
| 2.0        | -12.0 | -10.7 | -13.8 | -6.8  | -1.5  | 4.6   | 4.7   | 2.7   | -2.3  | -9.3  | -13.3 | -13.7 |
| 2.5        | -14.5 | -13.4 | -16.6 | -10.4 | -5.3  | 0.8   | 1.2   | -0.2  | -5.2  | -12.0 | -15.9 | -16.4 |
| 3.0        | -17.5 | -16.4 | -19.7 | -13.8 | -8.8  | -2.9  | -1.9  | -3.3  | -8.0  | -14.6 | -18.6 | -19.3 |
| 4          | -23.8 | -22.8 | -26.3 | -20.6 | -15.6 | -9.3  | -7.6  | -8.8  | -13.9 | -20.8 | -24.8 | -26.0 |
| 5          | -30.5 | -29.5 | -32.7 | -27.2 | -22.2 | -15.8 | -13.7 | -14.6 | -20.3 | -27.3 | -31.3 | -32.8 |
| 6          | -37.5 | -36.2 | -39.8 | -34.2 | -29.1 | -22.7 | -20.5 | -21.9 | -26.9 | -34.1 | -37.8 | -39.3 |
| 7          | -44.1 | -42.9 | -45.9 | -41.4 | -36.3 | -30.1 | -27.7 | -28.5 | -34.0 | -41.1 | -44.4 | -45.9 |
| 8          | -50.0 | -49.4 | -51.4 | -48.0 | -43.2 | -37.6 | -34.9 | -36.4 | -41.2 | -47.5 | -50.4 | -51.5 |
| 9          | -55.8 | -53.5 | -54.4 | -52.8 | -49.6 | -45.0 | -42.2 | -43.8 | -46.9 | -52.3 | -53.5 | -54.7 |
| 10         | -56.6 | -54.7 | -53.6 | -53.9 | -52.6 | -51.6 | -49.2 | -49.2 | -52.1 | -53.9 | -53.6 | -54.5 |
| 11         | -55.9 | -53.2 | -51.8 | -51.8 | -51.7 | -53.1 | -50.8 | -51.9 | -51.0 | -51.6 | -52.1 | -53.0 |
| 12         | -54.5 | -50.8 | -50.3 | -49.3 | -49.5 | -50.0 | -48.6 | -49.4 | -50.4 | -50.4 | -50.6 | -51.8 |
| 13         | -53.7 | -48.9 | -50.0 | -48.4 | -48.0 | -47.5 | -46.7 | -48.2 | -50.3 | -50.2 | -50.2 | -51.2 |
| 14         | -53.0 | -48.4 | -50.1 | -48.2 | -47.8 | -46.8 | -45.9 | -47.9 | -50.7 | -51.2 | -49.8 | -50.2 |
| 15         | -52.5 | -48.7 | -49.9 | -48.5 | -47.5 | -46.5 | -45.7 | -47.8 | -51.1 | -51.2 | -50.6 | -49.2 |
| 16         | --    | -49.2 | -50.5 | -48.6 | -47.3 | -46.2 | -45.5 | -47.5 | -51.2 | -51.9 | -49.4 | -48.6 |
| 17         | --    | --    | --    | -49.0 | -47.0 | -45.9 | -45.3 | -46.8 | -50.8 | -52.5 | --    | --    |
| 18         | --    | --    | --    | -48.9 | -46.6 | -45.6 | -44.9 | -46.2 | --    | --    | --    | --    |
| 19         | --    | --    | --    | --    | -46.8 | -45.2 | -44.5 | --    | --    | --    | --    | --    |
| 20         | --    | --    | --    | --    | --    | -45.1 | -44.3 | --    | --    | --    | --    | --    |

Number of Observations

|         |     |     |     |     |     |     |     |    |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 123 | 112 | 123 | 119 | 124 | 119 | 106 | 93 | 110 | 121 | 129 | 153 |
| 5       | 118 | 107 | 113 | 118 | 121 | 114 | 104 | 86 | 108 | 117 | 119 | 150 |
| 10      | 97  | 89  | 94  | 109 | 113 | 102 | 100 | 83 | 92  | 105 | 103 | 118 |
| 15      | 32  | 43  | 50  | 88  | 89  | 93  | 93  | 55 | 71  | 72  | 56  | 46  |
| 18      | --  | --  | --  | 41  | 55  | 74  | 72  | 29 | --  | --  | --  | --  |





AVERAGE PRESSURES (Mbs.)

Elevation: 134 meters, m.s.l.

FAIRBANKS, ALASKA

| Alt.Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|---------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface | 992  | 991  | 991  | 987  | 992 | 991  | 993  | 993  | 992   | 987  | 990  | 986  |
| 0.5     | 949  | 948  | 948  | 946  | 952 | 952  | 953  | 952  | 951   | 945  | 947  | 942  |
| 1.0     | 889  | 890  | 889  | 889  | 896 | 897  | 898  | 897  | 895   | 887  | 886  | 882  |
| 1.5     | 832  | 834  | 833  | 835  | 843 | 845  | 846  | 845  | 841   | 832  | 830  | 826  |
| 2.0     | 780  | 782  | 781  | 784  | 792 | 795  | 796  | 794  | 790   | 780  | 777  | 774  |
| 2.5     | 730  | 732  | 730  | 735  | 743 | 747  | 748  | 747  | 741   | 730  | 728  | 724  |
| 3.0     | 683  | 685  | 682  | 688  | 697 | 702  | 703  | 701  | 695   | 684  | 681  | 677  |
| 4       | 596  | 599  | 595  | 602  | 611 | 618  | 619  | 617  | 610   | 598  | 594  | 591  |
| 5       | 520  | 522  | 518  | 525  | 535 | 542  | 544  | 542  | 535   | 522  | 517  | 514  |
| 6       | 451  | 453  | 448  | 457  | 466 | 474  | 476  | 474  | 466   | 454  | 448  | 445  |
| 7       | 389  | 391  | 386  | 395  | 404 | 413  | 415  | 413  | 405   | 392  | 387  | 384  |
| 8       | 334  | 336  | 332  | 340  | 349 | 358  | 360  | 359  | 350   | 338  | 333  | 329  |
| 9       | 287  | 289  | 284  | 292  | 300 | 309  | 311  | 310  | 302   | 290  | 285  | 282  |
| 10      | 245  | 247  | 243  | 250  | 257 | 265  | 268  | 266  | 259   | 248  | 244  | 241  |
| 11      | 209  | 212  | 208  | 214  | 221 | 228  | 231  | 229  | 223   | 213  | 209  | 207  |
| 12      | 179  | 182  | 179  | 183  | 189 | 195  | 198  | 196  | 191   | 183  | 179  | 177  |
| 13      | 154  | 156  | 153  | 157  | 162 | 167  | 170  | 168  | 164   | 156  | 153  | 151  |
| 14      | 132  | 134  | 132  | 135  | 139 | 144  | 146  | 145  | 140   | 134  | 132  | 130  |
| 15      | 114  | 115  | 113  | 116  | 120 | 124  | 126  | 124  | 120   | 115  | 113  | 112  |
| 16      | --   | 99   | 97   | 100  | 103 | 107  | 108  | 107  | 103   | 99   | 97   | 97   |
| 17      | --   | --   | --   | 86   | 89  | 92   | 93   | 92   | 89    | 85   | --   | --   |
| 18      | --   | --   | --   | 74   | 76  | 79   | 80   | 79   | --    | --   | --   | --   |
| 19      | --   | --   | --   | --   | 66  | 68   | 69   | --   | --    | --   | --   | --   |
| 20      | --   | --   | --   | --   | --  | 58   | 59   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 76   | 68   | 60   | 48   | 43  | 46   | 52   | 62   | 64    | 75   | 74   | 74   |
| 0.5      | 76   | 69   | 62   | 49   | 44  | 45   | 54   | 63   | 64    | 75   | 71   | 76   |
| 1.0      | 73   | 67   | 64   | 51   | 47  | 47   | 59   | 68   | 68    | 76   | 70   | 74   |
| 1.5      | 71   | 64   | 65   | 54   | 51  | 52   | 65   | 74   | 73    | 76   | 67   | 71   |
| 2.0      | 71   | 62   | 65   | 58   | 56  | 58   | 71   | 78   | 75    | 74   | 65   | 71   |
| 2.5      | 68   | 60   | 65   | 60   | 60  | 63   | 76   | 80   | 76    | 73   | 63   | 69   |
| 3.0      | 67   | 60   | 65   | 60   | 63  | 65   | 78   | 79   | 74    | 71   | 62   | 69   |
| 4        | 66   | 59   | 66   | 61   | 63  | 65   | 73   | 73   | 71    | 72   | 62   | 65   |
| 5        | 64   | 59   | 63   | 59   | 60  | 63   | 65   | 64   | 69    | 71   | 59   | 62   |
| 6        | 64   | 59   | 62   | 58   | 58  | 59   | 63   | 61   | 68    | 69   | 63   | 59   |
| 7        | --   | --   | --   | 48   | 59  | 57   | 63   | 58   | 65    | --   | --   | --   |
| 8        | --   | --   | --   | --   | --  | 53   | 56   | 57   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |    |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 120 | 110 | 122 | 119 | 124 | 119 | 105 | 93 | 110 | 120 | 127 | 146 |
| 5       | 90  | 91  | 85  | 112 | 116 | 107 | 100 | 85 | 102 | 109 | 96  | 107 |
| 7       | --  | --  | --  | 28  | 71  | 94  | 95  | 82 | 73  | --  | --  | --  |

AVERAGE TEMPERATURES °C.

Great Falls, Mont.

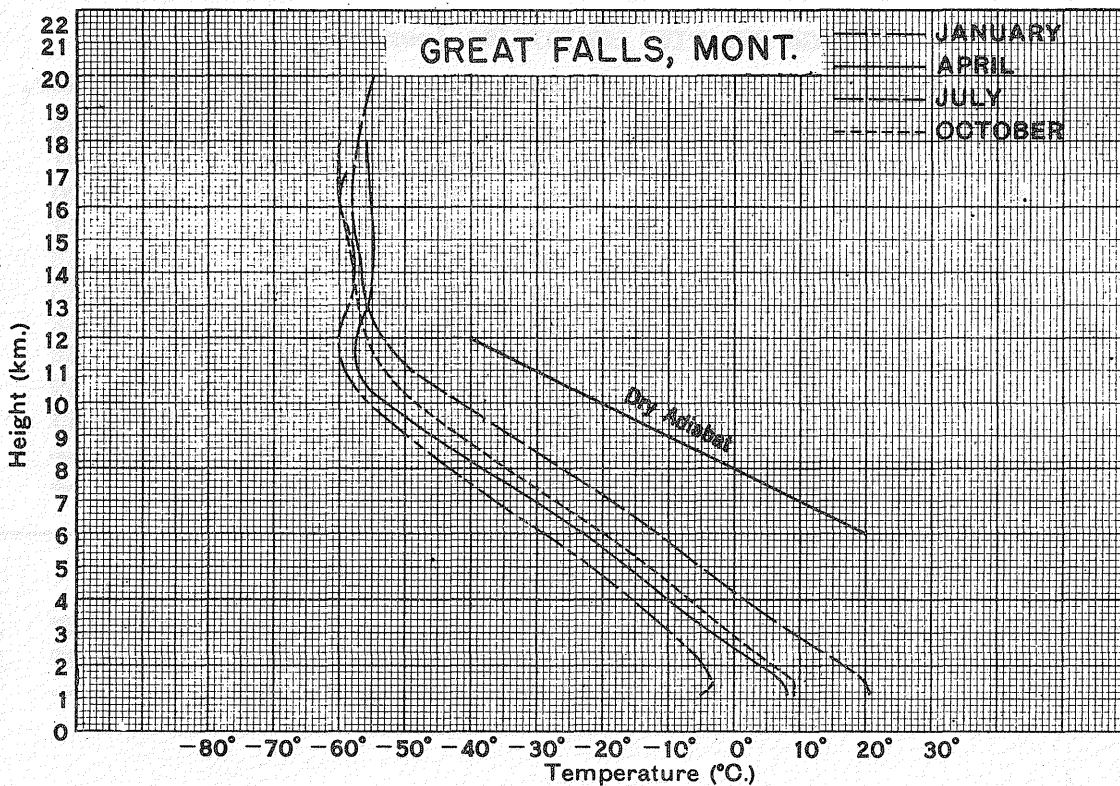
Period of Record: August 1940-December 1943

Elevation: 1,128 meters, m.s.l.

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -5.0  | -3.5  | -0.7  | 8.0   | 10.4  | 13.5  | 20.5  | 19.7  | 13.7  | 9.1   | 1.4   | -1.3  |
| 1.5        | -3.3  | -2.6  | -0.9  | 7.5   | 9.5   | 12.8  | 20.1  | 19.4  | 13.2  | 9.3   | 2.1   | -0.8  |
| 2.0        | -5.1  | -4.4  | -3.5  | 4.0   | 6.0   | 9.7   | 16.9  | 16.1  | 10.0  | 5.9   | -0.6  | -3.2  |
| 2.5        | -6.7  | -6.9  | -6.7  | 0.4   | 2.2   | 6.2   | 12.9  | 12.4  | 6.6   | 2.4   | -3.5  | -5.9  |
| 3.0        | -9.6  | -9.9  | -10.0 | -3.2  | -1.7  | 2.6   | 9.9   | 8.5   | 3.3   | -0.8  | -6.4  | -8.5  |
| 4          | -15.4 | -15.8 | -16.3 | -10.0 | -9.0  | -3.8  | 1.6   | 1.3   | -3.1  | -6.9  | -12.6 | -14.6 |
| 5          | -22.2 | -22.0 | -22.7 | -16.3 | -15.7 | -10.4 | -5.1  | -5.5  | -9.5  | -13.2 | -19.0 | -21.2 |
| 6          | -29.1 | -28.7 | -29.3 | -23.3 | -22.5 | -17.1 | -11.7 | -12.3 | -16.1 | -20.0 | -25.9 | -28.1 |
| 7          | -36.5 | -35.9 | -36.3 | -30.6 | -29.7 | -24.1 | -18.9 | -19.3 | -23.7 | -27.0 | -32.9 | -35.3 |
| 8          | -43.5 | -43.3 | -43.5 | -38.4 | -37.3 | -31.7 | -26.5 | -26.9 | -30.9 | -34.5 | -40.0 | -42.6 |
| 9          | -50.1 | -50.3 | -50.1 | -45.8 | -44.5 | -39.0 | -34.0 | -34.9 | -38.8 | -42.0 | -46.6 | -49.3 |
| 10         | -55.8 | -54.3 | -55.5 | -53.0 | -50.2 | -46.1 | -41.6 | -42.3 | -45.8 | -48.6 | -52.5 | -54.2 |
| 11         | -59.3 | -56.2 | -58.1 | -57.4 | -53.8 | -51.8 | -49.1 | -48.8 | -51.5 | -53.3 | -55.5 | -56.4 |
| 12         | -60.1 | -54.5 | -57.8 | -57.2 | -54.5 | -54.1 | -53.2 | -53.2 | -54.3 | -56.0 | -56.9 | -55.9 |
| 13         | -58.4 | -52.8 | -56.4 | -55.5 | -53.7 | -53.3 | -56.2 | -55.3 | -55.5 | -57.1 | -57.2 | -55.2 |
| 14         | -57.5 | -52.9 | -55.7 | -55.0 | -53.6 | -52.9 | -56.5 | -56.8 | -56.4 | -57.9 | -57.2 | -54.9 |
| 15         | -58.3 | -53.9 | -55.6 | -54.9 | -54.2 | -53.7 | -57.5 | -58.2 | -57.1 | -58.8 | -57.7 | -55.6 |
| 16         | -59.6 | -55.5 | -56.3 | -55.3 | -55.0 | -54.3 | -58.1 | -58.8 | -57.7 | -59.8 | -58.9 | -56.6 |
| 17         | -59.0 | -55.6 | -56.8 | -55.5 | -55.3 | -54.9 | -58.0 | -58.5 | -58.0 | -60.1 | -59.5 | -57.4 |
| 18         | --    | --    | -56.6 | -55.8 | --    | -54.9 | -57.1 | -57.5 | -57.6 | -60.0 | -59.7 | --    |
| 19         | --    | --    | --    | --    | --    | -54.5 | -56.1 | -56.0 | -57.3 | -60.1 | --    | --    |
| 20         | --    | --    | --    | --    | --    | --    | -54.8 | -54.6 | --    | --    | --    | --    |

Number of Observations

|         |    |    |    |    |    |    |    |     |     |     |     |     |
|---------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Surface | 90 | 84 | 92 | 89 | 93 | 90 | 92 | 124 | 120 | 123 | 119 | 117 |
| 5       | 88 | 81 | 91 | 89 | 90 | 87 | 91 | 124 | 118 | 121 | 118 | 113 |
| 10      | 81 | 75 | 82 | 79 | 85 | 79 | 82 | 117 | 108 | 112 | 103 | 82  |
| 15      | 64 | 53 | 61 | 62 | 59 | 63 | 66 | 96  | 92  | 90  | 71  | 60  |
| 18      | -- | -- | 28 | 26 | -- | 41 | 46 | 78  | 53  | 40  | 25  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 1,128 meters, m.s.l.

GREAT FALLS, MONT.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 887  | 887  | 886  | 884  | 885 | 886  | 888  | 888  | 888   | 887  | 887  | 885  |
| 1.5      | 847  | 846  | 845  | 845  | 846 | 847  | 851  | 850  | 849   | 847  | 847  | 845  |
| 2.0      | 794  | 794  | 794  | 795  | 796 | 798  | 802  | 801  | 800   | 798  | 796  | 793  |
| 2.5      | 745  | 745  | 745  | 747  | 749 | 751  | 756  | 755  | 753   | 750  | 747  | 744  |
| 3.0      | 699  | 698  | 698  | 702  | 704 | 707  | 712  | 711  | 708   | 705  | 701  | 698  |
| 4        | 613  | 613  | 612  | 618  | 620 | 624  | 630  | 630  | 625   | 621  | 616  | 612  |
| 5        | 536  | 536  | 535  | 542  | 544 | 549  | 556  | 555  | 550   | 546  | 540  | 536  |
| 6        | 467  | 467  | 467  | 474  | 476 | 481  | 489  | 488  | 483   | 478  | 471  | 467  |
| 7        | 405  | 405  | 405  | 412  | 414 | 421  | 428  | 428  | 422   | 417  | 409  | 406  |
| 8        | 350  | 350  | 349  | 357  | 359 | 366  | 373  | 373  | 367   | 362  | 354  | 350  |
| 9        | 301  | 301  | 300  | 308  | 310 | 316  | 324  | 324  | 318   | 313  | 305  | 301  |
| 10       | 259  | 258  | 257  | 265  | 267 | 273  | 281  | 280  | 275   | 270  | 262  | 258  |
| 11       | 221  | 221  | 220  | 227  | 229 | 235  | 242  | 241  | 236   | 232  | 225  | 220  |
| 12       | 189  | 189  | 188  | 193  | 195 | 201  | 208  | 207  | 202   | 198  | 192  | 188  |
| 13       | 161  | 161  | 160  | 165  | 167 | 172  | 178  | 177  | 173   | 169  | 164  | 160  |
| 14       | 137  | 136  | 137  | 141  | 143 | 147  | 152  | 151  | 147   | 144  | 140  | 137  |
| 15       | 117  | 118  | 117  | 120  | 123 | 126  | 130  | 129  | 126   | 123  | 120  | 117  |
| 16       | 100  | 101  | 100  | 103  | 105 | 108  | 111  | 110  | 108   | 105  | 102  | 101  |
| 17       | 86   | 86   | 86   | 88   | 90  | 92   | 94   | 94   | 92    | 90   | 88   | 86   |
| 18       | --   | --   | 73   | 76   | --  | 79   | 81   | 80   | 79    | 76   | 74   | --   |
| 19       | --   | --   | --   | --   | --  | 68   | 69   | 69   | 67    | --   | --   | --   |
| 20       | --   | --   | --   | --   | --  | --   | 59   | 59   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 66   | 67   | 64   | 55   | 59  | 68   | 50   | 43   | 57    | 56   | 63   | 63   |
| 1.5      | 66   | 65   | 63   | 52   | 56  | 62   | 44   | 41   | 53    | 52   | 58   | 61   |
| 2.0      | 64   | 63   | 61   | 53   | 56  | 60   | 43   | 41   | 54    | 53   | 57   | 59   |
| 2.5      | 64   | 62   | 61   | 56   | 59  | 62   | 46   | 44   | 58    | 55   | 58   | 59   |
| 3.0      | 63   | 62   | 62   | 59   | 63  | 65   | 50   | 49   | 59    | 56   | 58   | 58   |
| 4        | 61   | 60   | 59   | 61   | 68  | 66   | 55   | 56   | 57    | 56   | 59   | 58   |
| 5        | 58   | 55   | 57   | 59   | 64  | 62   | 51   | 53   | 55    | 55   | 57   | 58   |
| 6        | 53   | 50   | 52   | 57   | 61  | 58   | 55   | 51   | 53    | 53   | 55   | 53   |
| 7        | 46   | 46   | 49   | 54   | 62  | 56   | 52   | 47   | 50    | 51   | 52   | 54   |
| 8        | --   | --   | --   | --   | 57  | 57   | 51   | 49   | 53    | 49   | --   | --   |
| 9        | --   | --   | --   | --   | --  | --   | 56   | 46   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |    |    |     |     |     |     |     |
|---------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Surface | 90 | 83 | 92 | 89 | 93 | 90 | 93 | 124 | 120 | 123 | 118 | 117 |
| 5       | 79 | 75 | 90 | 86 | 88 | 85 | 92 | 122 | 118 | 120 | 114 | 107 |
| 7       | 45 | 43 | 55 | 56 | 55 | 82 | 60 | 115 | 114 | 112 | 84  | 50  |
| 9       | -- | -- | -- | -- | -- | -- | 34 | 56  | --  | --  | --  | --  |

AVERAGE TEMPERATURES °C.

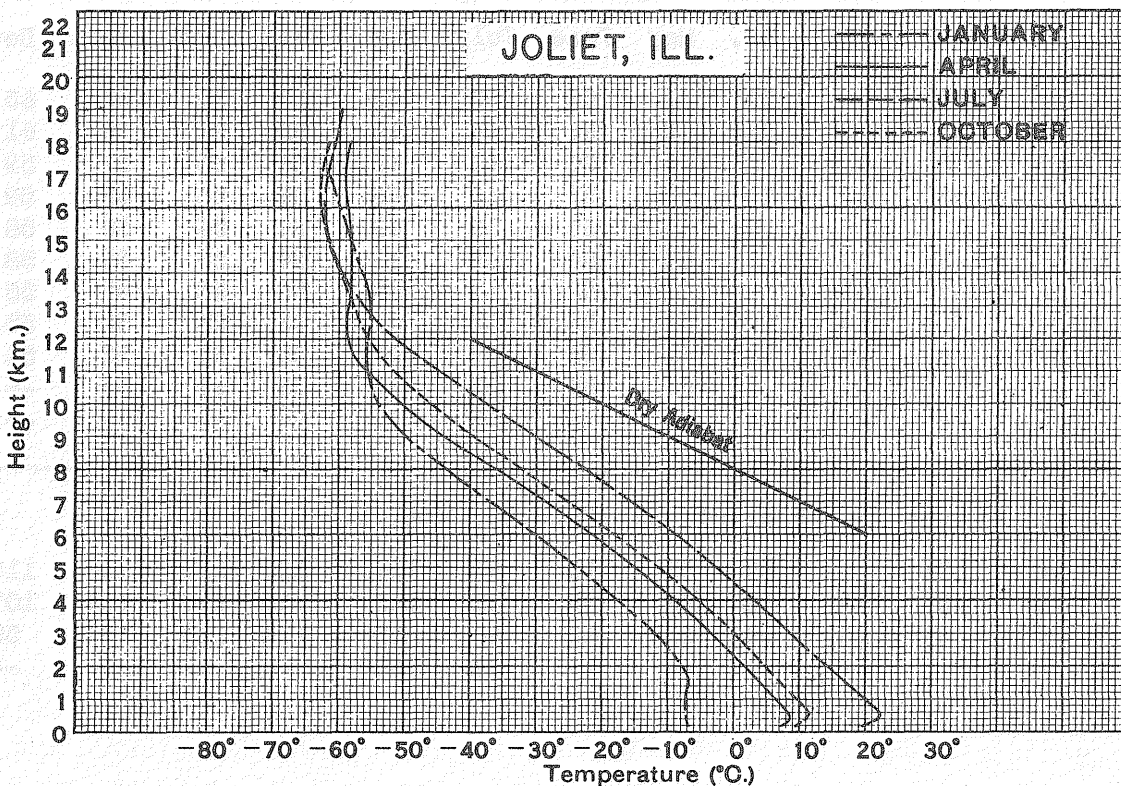
Joliet, Ill.

Period of Record: July 1939-December 1943

Elevation: 178 meters, m.s.l.

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -6.7  | -4.1  | -0.3  | 7.1   | 12.1  | 18.3  | 19.6  | 19.1  | 14.8  | 9.3   | 2.0   | -2.1  |
| 0.5        | -7.3  | -4.8  | -0.5  | 8.6   | 13.5  | 20.0  | 22.3  | 21.3  | 17.4  | 11.3  | 2.3   | -1.9  |
| 1.0        | -7.4  | -6.2  | -2.7  | 6.7   | 11.3  | 17.8  | 20.2  | 19.8  | 14.8  | 9.2   | 1.4   | -2.3  |
| 1.5        | -6.8  | -6.8  | -4.3  | 4.1   | 8.8   | 14.8  | 17.0  | 15.7  | 12.1  | 6.7   | 0.2   | -2.6  |
| 2.0        | -7.8  | -8.0  | -6.1  | 1.7   | 6.2   | 11.9  | 14.1  | 13.2  | 9.8   | 4.7   | -1.5  | -3.7  |
| 2.5        | -9.7  | -9.9  | -8.0  | -0.7  | 3.7   | 9.3   | 11.3  | 10.7  | 7.6   | 2.5   | -3.4  | -5.5  |
| 3.0        | -12.0 | -12.2 | -10.4 | -3.1  | 0.9   | 6.7   | 8.6   | 8.1   | 5.3   | 0.1   | -5.6  | -7.0  |
| 4          | -17.5 | -17.4 | -15.6 | -8.7  | -4.6  | 1.1   | 3.0   | 2.3   | -0.3  | -5.5  | -11.0 | -12.7 |
| 5          | -23.6 | -23.5 | -21.6 | -14.9 | -10.9 | -4.6  | -2.8  | -3.5  | -6.4  | -11.6 | -16.9 | -18.7 |
| 6          | -30.2 | -30.0 | -28.2 | -21.8 | -17.5 | -10.7 | -9.0  | -9.4  | -12.5 | -18.0 | -23.6 | -25.6 |
| 7          | -37.1 | -37.0 | -35.1 | -28.8 | -24.7 | -17.4 | -15.6 | -16.0 | -19.4 | -25.1 | -30.6 | -32.7 |
| 8          | -43.7 | -43.6 | -42.3 | -36.2 | -32.1 | -24.5 | -22.9 | -23.2 | -26.6 | -32.4 | -37.7 | -39.6 |
| 9          | -49.8 | -49.4 | -48.8 | -43.6 | -39.4 | -31.8 | -30.2 | -30.7 | -34.1 | -39.5 | -44.7 | -45.9 |
| 10         | -54.0 | -53.3 | -53.5 | -50.4 | -46.2 | -39.3 | -37.5 | -38.6 | -41.4 | -46.3 | -50.6 | -51.5 |
| 11         | -55.9 | -54.3 | -56.0 | -55.7 | -51.8 | -46.5 | -44.9 | -45.1 | -48.0 | -51.6 | -54.8 | -54.9 |
| 12         | -55.6 | -53.6 | -55.9 | -58.7 | -56.0 | -53.0 | -51.6 | -51.5 | -53.2 | -55.6 | -57.1 | -56.0 |
| 13         | -55.3 | -53.5 | -55.2 | -58.4 | -58.0 | -58.1 | -56.2 | -56.6 | -57.1 | -57.9 | -58.3 | -56.8 |
| 14         | -56.5 | -54.1 | -55.4 | -58.1 | -58.1 | -60.8 | -59.6 | -60.4 | -60.7 | -59.7 | -59.3 | -57.9 |
| 15         | -58.0 | -55.4 | -56.4 | -58.0 | -58.4 | -61.7 | -61.8 | -63.0 | -63.4 | -61.6 | -60.6 | -59.3 |
| 16         | -60.0 | -56.5 | -57.9 | -58.8 | -58.9 | -62.6 | -62.4 | -64.1 | -64.7 | -62.8 | -61.6 | -59.8 |
| 17         | -61.4 | -57.2 | -58.6 | -59.0 | -59.0 | -62.5 | -61.8 | -63.3 | -64.2 | -62.9 | -62.0 | -60.6 |
| 18         | --    | --    | --    | -58.2 | -58.4 | -61.3 | -60.7 | -61.7 | -62.6 | -61.5 | --    | -60.5 |
| 19         | --    | --    | --    | --    | -56.8 | -59.7 | -59.7 | -59.3 | -60.9 | --    | --    | --    |
| 20         | --    | --    | --    | --    | --    | --    | --    | --    | -59.7 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 122                    | 110 | 119 | 115 | 121 | 117 | 136 | 151 | 145 | 145 | 147 | 154 |
| 5       | 119                    | 106 | 114 | 111 | 118 | 114 | 133 | 141 | 141 | 134 | 143 | 150 |
| 10      | 105                    | 89  | 82  | 99  | 106 | 106 | 128 | 134 | 135 | 120 | 122 | 117 |
| 15      | 63                     | 57  | 53  | 79  | 76  | 87  | 109 | 106 | 111 | 73  | 80  | 80  |
| 18      | --                     | --  | --  | 34  | 45  | 51  | 66  | 69  | 75  | 45  | --  | 27  |



AVERAGE PRESSURES (mbs.)

Elevation: 178 meters, m.s.l.

JOLIET, ILL.

37

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 997  | 995  | 995  | 995  | 993 | 993  | 994  | 994  | 996   | 996  | 998  | 996  |
| 0.5      | 957  | 956  | 956  | 957  | 956 | 957  | 958  | 958  | 959   | 958  | 959  | 957  |
| 1.0      | 898  | 897  | 898  | 901  | 901 | 903  | 904  | 904  | 905   | 902  | 901  | 899  |
| 1.5      | 842  | 841  | 842  | 847  | 848 | 851  | 853  | 853  | 853   | 849  | 847  | 844  |
| 2.0      | 789  | 789  | 790  | 796  | 798 | 802  | 804  | 804  | 803   | 799  | 796  | 792  |
| 2.5      | 740  | 740  | 741  | 746  | 751 | 755  | 758  | 757  | 756   | 751  | 747  | 743  |
| 3.0      | 693  | 693  | 695  | 701  | 706 | 711  | 714  | 713  | 711   | 706  | 701  | 697  |
| 4        | 608  | 607  | 609  | 619  | 623 | 629  | 632  | 631  | 629   | 622  | 616  | 612  |
| 5        | 531  | 531  | 533  | 543  | 548 | 555  | 558  | 557  | 554   | 547  | 540  | 536  |
| 6        | 462  | 462  | 465  | 475  | 480 | 488  | 491  | 490  | 487   | 479  | 472  | 468  |
| 7        | 401  | 401  | 404  | 414  | 419 | 428  | 431  | 430  | 426   | 418  | 411  | 407  |
| 8        | 346  | 346  | 349  | 359  | 365 | 374  | 377  | 376  | 372   | 363  | 356  | 353  |
| 9        | 298  | 298  | 300  | 310  | 315 | 325  | 328  | 327  | 323   | 315  | 308  | 304  |
| 10       | 255  | 255  | 257  | 267  | 272 | 282  | 284  | 284  | 279   | 272  | 264  | 262  |
| 11       | 219  | 219  | 220  | 229  | 234 | 243  | 245  | 245  | 241   | 233  | 227  | 224  |
| 12       | 187  | 187  | 188  | 195  | 200 | 208  | 211  | 210  | 206   | 199  | 194  | 191  |
| 13       | 160  | 160  | 161  | 167  | 171 | 178  | 181  | 180  | 177   | 170  | 165  | 163  |
| 14       | 137  | 137  | 138  | 142  | 146 | 152  | 154  | 153  | 151   | 145  | 141  | 139  |
| 15       | 117  | 117  | 118  | 121  | 125 | 129  | 131  | 131  | 128   | 124  | 120  | 119  |
| 16       | 100  | 100  | 101  | 104  | 106 | 110  | 112  | 111  | 109   | 105  | 102  | 101  |
| 17       | 85   | 85   | 86   | 88   | 91  | 94   | 95   | 94   | 93    | 89   | 87   | 86   |
| 18       | --   | --   | --   | 76   | 77  | 80   | 81   | 80   | 79    | 76   | --   | 73   |
| 19       | --   | --   | --   | --   | 66  | 68   | 69   | 68   | 67    | --   | --   | --   |
| 20       | --   | --   | --   | --   | --  | --   | --   | --   | 57    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 88   | 87   | 82   | 77   | 82  | 96   | 84   | 88   | 83    | 83   | 86   | 86   |
| 0.5      | 88   | 85   | 77   | 65   | 71  | 71   | 67   | 70   | 66    | 69   | 77   | 83   |
| 1.0      | 83   | 81   | 74   | 61   | 68  | 69   | 64   | 68   | 63    | 66   | 71   | 76   |
| 1.5      | 76   | 76   | 68   | 61   | 68  | 69   | 65   | 69   | 63    | 64   | 64   | 69   |
| 2.0      | 72   | 73   | 63   | 59   | 66  | 69   | 61   | 65   | 58    | 60   | 60   | 63   |
| 2.5      | 69   | 70   | 60   | 57   | 65  | 64   | 57   | 58   | 53    | 57   | 56   | 60   |
| 3.0      | 67   | 67   | 60   | 54   | 63  | 59   | 53   | 53   | 50    | 53   | 54   | 59   |
| 4        | 62   | 64   | 59   | 55   | 57  | 51   | 51   | 51   | 47    | 50   | 51   | 56   |
| 5        | 60   | 61   | 59   | 49   | 53  | 49   | 44   | 49   | 45    | 47   | 49   | 54   |
| 6        | 56   | 59   | 56   | 48   | 51  | 47   | 41   | 44   | 41    | 44   | 48   | 52   |
| 7        | 50   | 55   | 54   | 46   | 50  | 47   | 40   | 42   | 40    | 43   | 47   | 54   |
| 8        | --   | --   | --   | 44   | --  | 47   | 39   | 40   | 41    | 42   | 44   | --   |
| 9        | --   | --   | --   | --   | --  | --   | 40   | --   | 43    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 120 | 108 | 119 | 115 | 121 | 115 | 135 | 150 | 141 | 144 | 145 | 153 |
| 5       | 113 | 98  | 103 | 108 | 102 | 108 | 131 | 136 | 134 | 129 | 138 | 142 |
| 7       | 63  | 64  | 62  | 96  | 93  | 101 | 129 | 133 | 129 | 122 | 117 | 105 |
| 9       | --  | --  | --  | --  | --  | --  | 73  | --  | 54  | --  | --  | --  |

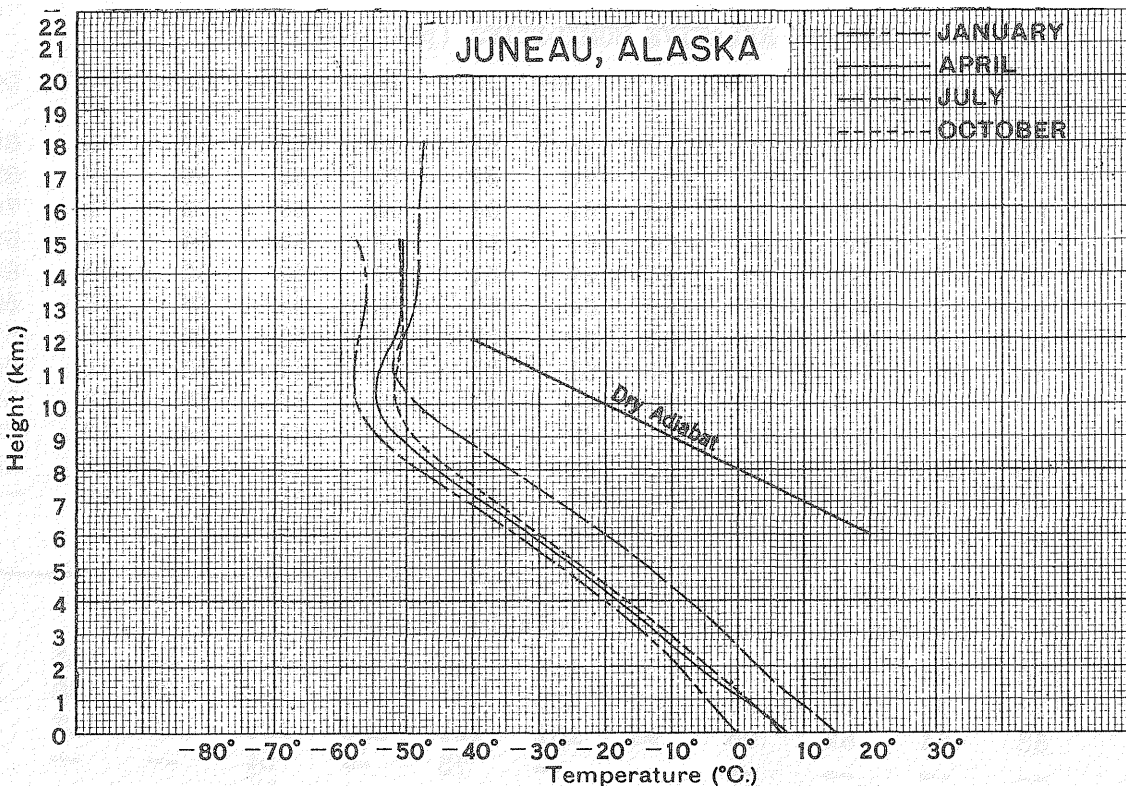
AVERAGE TEMPERATURES °C.

Juneau, Alaska  
Elevation: 6 meters, m.s.l.

Period of Record: September 1939-July 1940  
October 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -0.2  | 0.7   | 2.2   | 7.1   | 11.1  | 14.1  | 14.6  | 15.0  | 10.6  | 6.3   | 2.3   | 0.8   |
| 0.5        | -2.4  | -1.5  | -0.3  | 4.4   | 8.0   | 11.0  | 12.0  | 13.0  | 9.2   | 4.3   | -0.3  | -1.6  |
| 1.0        | -4.8  | -4.1  | -3.7  | 0.7   | 4.1   | 7.3   | 8.6   | 9.7   | 6.3   | 1.0   | -3.4  | -4.3  |
| 1.5        | -6.7  | -6.3  | -6.9  | -2.7  | 0.6   | 3.8   | 5.4   | 6.3   | 2.8   | -1.9  | -6.0  | -6.5  |
| 2.0        | -8.9  | -8.2  | -9.6  | -6.1  | -2.7  | 0.8   | 2.7   | 3.2   | 0.7   | -4.9  | -8.5  | -9.0  |
| 2.5        | -11.3 | -10.4 | -12.6 | -9.1  | -5.8  | -2.0  | 0.0   | 0.8   | -2.0  | -7.6  | -11.3 | -11.8 |
| 3.0        | -14.1 | -13.0 | -16.0 | -12.2 | -8.7  | -4.7  | -2    | 1.6   | -4.5  | -10.8 | -14.4 | -14.8 |
| 4          | -20.3 | -19.3 | -22.4 | -18.5 | -14.9 | -10.3 | -7    | 3.7   | -9.9  | -16.9 | -20.9 | -21.3 |
| 5          | -26.8 | -26.0 | -29.0 | -25.0 | -21.6 | -16.7 | -13.0 | 2.7   | -16.3 | -23.6 | -27.5 | -27.6 |
| 6          | -33.6 | -33.1 | -36.1 | -31.8 | -28.6 | -23.5 | -20.2 | -19.5 | -22.9 | -29.9 | -34.2 | -34.6 |
| 7          | -41.0 | -40.0 | -42.4 | -38.9 | -36.2 | -30.9 | -27.1 | -26.5 | -29.8 | -36.9 | -41.1 | -41.5 |
| 8          | -48.3 | -46.9 | -48.3 | -45.5 | -42.6 | -38.5 | -34.6 | -33.8 | -36.9 | -43.4 | -47.6 | -47.8 |
| 9          | -54.2 | -52.5 | -52.1 | -51.3 | -48.8 | -45.7 | -42.1 | -40.9 | -43.5 | -49.0 | -52.5 | -52.2 |
| 10         | -57.6 | -55.1 | -53.7 | -54.6 | -52.6 | -51.4 | -48.7 | -47.1 | -49.0 | -51.5 | -54.1 | -53.6 |
| 11         | -57.8 | -55.6 | -53.2 | -54.2 | -52.4 | -51.8 | -52.2 | -51.9 | -51.6 | -51.4 | -51.6 | -52.7 |
| 12         | -57.3 | -54.4 | -52.5 | -51.8 | -51.7 | -49.8 | -50.9 | -52.5 | -51.5 | -50.6 | -51.5 | -51.9 |
| 13         | -56.3 | -52.7 | -51.3 | -50.7 | -50.6 | -48.1 | -48.8 | -51.4 | -51.5 | -50.6 | -50.5 | -50.9 |
| 14         | -56.4 | -52.3 | -51.3 | -50.7 | -50.3 | -47.8 | -48.3 | -50.4 | -52.0 | -50.8 | -50.6 | -50.8 |
| 15         | -57.7 | --    | --    | -50.9 | -50.3 | -47.9 | -48.3 | -50.4 | -52.7 | -51.1 | --    | --    |
| 16         | --    | --    | --    | --    | -50.3 | -47.9 | -48.2 | -50.7 | -52.8 | --    | --    | --    |
| 17         | --    | --    | --    | --    | -50.2 | -47.7 | -47.9 | --    | --    | --    | --    | --    |
| 18         | --    | --    | --    | --    | -49.8 | -47.5 | -47.5 | --    | --    | --    | --    | --    |
| 19         | --    | --    | --    | --    | --    | -47.4 | --    | --    | --    | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |    |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 120                    | 110 | 123 | 117 | 122 | 118 | 106 | 93 | 119 | 148 | 144 | 151 |
| 5       | 87                     | 90  | 92  | 86  | 105 | 99  | 82  | 75 | 96  | 96  | 111 | 116 |
| 10      | 55                     | 68  | 48  | 51  | 75  | 78  | 67  | 53 | 59  | 58  | 61  | 65  |
| 15      | 26                     | --  | --  | 27  | 55  | 55  | 57  | 38 | 40  | 30  | --  | --  |
| 18      | --                     | --  | --  | --  | 34  | 41  | 32  | -- | --  | --  | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 6 meters, m.s.l.

JUNEAU, ALASKA

39

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1006 | 1008 | 1004 | 1005 | 1009 | 1009 | 1013 | 1012 | 1010  | 1003 | 1004 | 1000 |
| 0.5      | 950  | 952  | 950  | 951  | 955  | 956  | 959  | 957  | 955   | 948  | 948  | 945  |
| 1.0      | 893  | 894  | 892  | 894  | 899  | 901  | 903  | 901  | 899   | 891  | 890  | 887  |
| 1.5      | 837  | 839  | 837  | 840  | 845  | 847  | 850  | 849  | 846   | 837  | 836  | 832  |
| 2.0      | 785  | 787  | 785  | 788  | 793  | 796  | 799  | 798  | 795   | 786  | 783  | 780  |
| 2.5      | 736  | 738  | 735  | 739  | 745  | 748  | 751  | 750  | 746   | 738  | 734  | 731  |
| 3        | 689  | 691  | 688  | 693  | 698  | 702  | 705  | 705  | 701   | 691  | 688  | 684  |
| 4        | 603  | 605  | 601  | 607  | 613  | 618  | 621  | 621  | 617   | 606  | 602  | 598  |
| 5        | 526  | 528  | 524  | 530  | 536  | 542  | 546  | 545  | 541   | 530  | 525  | 522  |
| 6        | 457  | 459  | 454  | 462  | 467  | 473  | 478  | 478  | 473   | 462  | 456  | 453  |
| 7        | 395  | 398  | 393  | 400  | 406  | 411  | 417  | 418  | 411   | 400  | 394  | 392  |
| 8        | 340  | 343  | 338  | 345  | 351  | 357  | 362  | 362  | 357   | 345  | 340  | 337  |
| 9        | 292  | 295  | 290  | 296  | 302  | 308  | 313  | 313  | 308   | 297  | 291  | 289  |
| 10       | 249  | 252  | 248  | 254  | 259  | 264  | 270  | 270  | 265   | 255  | 248  | 247  |
| 11       | 213  | 216  | 213  | 218  | 223  | 227  | 232  | 232  | 228   | 218  | 213  | 212  |
| 12       | 181  | 185  | 182  | 186  | 191  | 194  | 198  | 199  | 195   | 187  | 182  | 181  |
| 13       | 155  | 159  | 156  | 159  | 163  | 167  | 170  | 170  | 168   | 160  | 156  | 155  |
| 14       | 132  | 136  | 134  | 137  | 140  | 143  | 146  | 146  | 144   | 137  | 134  | 133  |
| 15       | 113  | 117  | 115  | 118  | 120  | 123  | 126  | 125  | 123   | 118  | 115  | 114  |
| 16       | --   | --   | --   | --   | 103  | 106  | 108  | 108  | 106   | --   | --   | --   |
| 17       | --   | --   | --   | --   | 89   | 91   | 93   | --   | --    | --   | --   | --   |
| 18       | --   | --   | --   | --   | 76   | 78   | 80   | --   | --    | --   | --   | --   |
| 19       | --   | --   | --   | --   | --   | 67   | 69   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 74   | 74   | 76   | 71   | 65  | 70   | 78   | 77   | 85    | 86   | 78   | 81   |
| 0.5      | 74   | 74   | 76   | 72   | 67  | 72   | 77   | 77   | 82    | 81   | 77   | 80   |
| 1.0      | 74   | 73   | 79   | 75   | 72  | 78   | 83   | 80   | 82    | 83   | 79   | 84   |
| 1.5      | 72   | 73   | 80   | 77   | 76  | 83   | 87   | 84   | 82    | 85   | 80   | 83   |
| 2.0      | 70   | 71   | 78   | 77   | 77  | 82   | 87   | 86   | 81    | 85   | 80   | 82   |
| 2.5      | 68   | 68   | 77   | 75   | 76  | 78   | 84   | 79   | 78    | 81   | 79   | 81   |
| 3.0      | 66   | 63   | 75   | 72   | 72  | 74   | 78   | 71   | 73    | 77   | 75   | 77   |
| 4        | 60   | 59   | 71   | 67   | 67  | 65   | 67   | 62   | 66    | 70   | 68   | 70   |
| 5        | 59   | 56   | 65   | 63   | 64  | 58   | 61   | 56   | 63    | 65   | 65   | 69   |
| 6        | 56   | 53   | 62   | 56   | 61  | 56   | 59   | 51   | 60    | 62   | 61   | 70   |
| 7        |      |      | --   | --   | 59  | 56   | 58   | 51   | 60    | 60   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |    |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 118 | 108 | 123 | 117 | 122 | 117 | 106 | 93 | 121 | 147 | 143 | 150 |
| 5       | 69  | 74  | 67  | 55  | 96  | 88  | 79  | 65 | 95  | 83  | 101 | 86  |
| 7       |     |     | --  | --  | 52  | 67  | 69  | 60 | 73  | 37  | --  | --  |

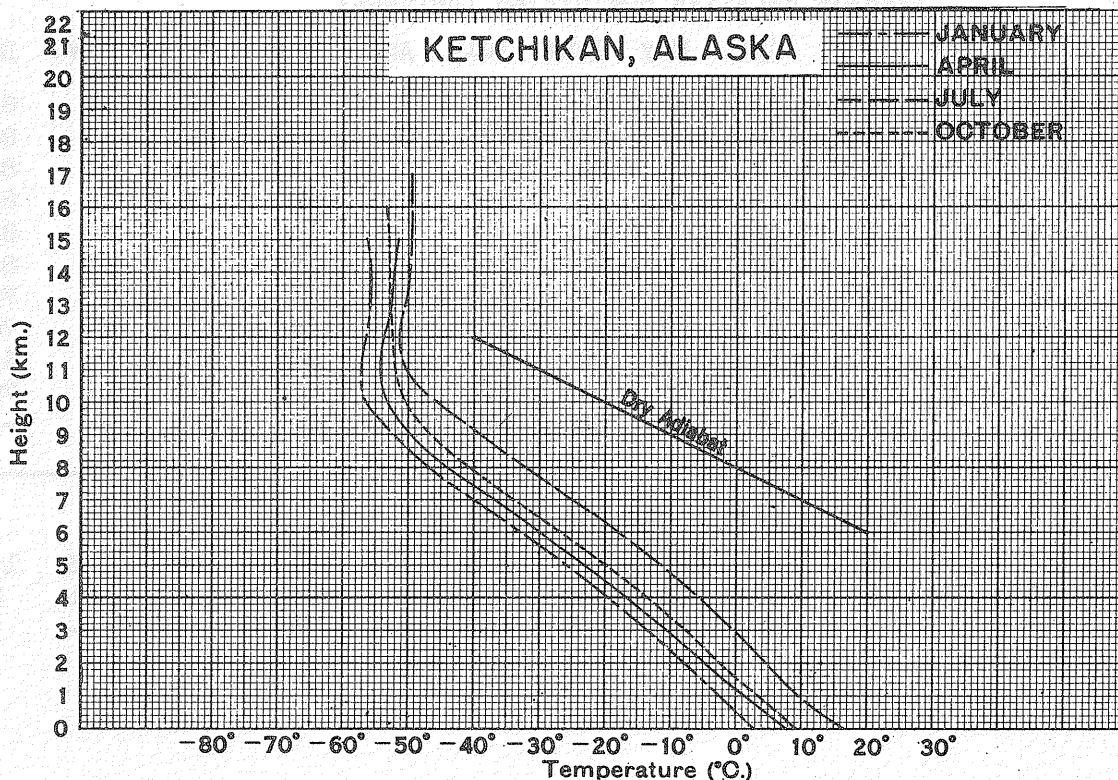
AVERAGE TEMPERATURES °C.

Ketchikan, Alaska  
Elevation: 26 meters, m.s.l.

Period of Record: September 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 2.5   | 3.6   | 4.2   | 7.8   | 10.6  | 13.9  | 16.4  | 15.9  | 13.0  | 9.0   | 5.0   | 3.3   |
| 0.5        | 0.0   | 1.7   | 1.9   | 4.9   | 7.6   | 10.6  | 13.0  | 13.6  | 11.2  | 6.6   | 2.5   | 0.8   |
| 1.0        | -2.9  | -1.1  | -1.4  | 1.3   | 4.2   | 7.5   | 9.6   | 10.5  | 8.4   | 3.3   | -0.7  | -2.2  |
| 1.5        | -5.2  | -3.3  | -4.7  | -2.0  | 0.9   | 4.8   | 6.9   | 7.5   | 5.6   | 0.3   | -3.6  | -4.8  |
| 2.0        | -8.0  | -5.8  | -7.6  | -4.8  | -2.3  | 2.0   | 4.6   | 5.1   | 3.0   | -2.3  | -6.2  | -7.5  |
| 2.5        | -10.4 | -8.4  | -10.5 | -7.6  | -5.3  | -0.7  | 2.3   | 2.5   | 0.5   | -4.9  | -8.8  | -10.1 |
| 3.0        | -13.3 | -11.1 | -13.4 | -10.5 | -8.3  | -3.5  | -0.2  | -0.1  | -2.0  | -7.7  | -11.8 | -13.1 |
| 4          | -19.6 | -17.6 | -19.8 | -16.8 | -14.5 | -9.3  | -5.5  | -5.5  | -7.7  | -13.9 | -18.2 | -19.2 |
| 5          | -26.0 | -23.9 | -25.8 | -23.3 | -20.9 | -15.6 | -11.5 | -11.7 | -13.8 | -19.9 | -24.9 | -25.7 |
| 6          | -33.1 | -30.3 | -32.4 | -30.1 | -27.6 | -22.4 | -18.1 | -18.2 | -20.5 | -26.8 | -31.6 | -32.6 |
| 7          | -40.0 | -37.4 | -39.0 | -37.0 | -34.7 | -29.4 | -25.1 | -25.2 | -27.6 | -34.2 | -38.4 | -38.9 |
| 8          | -47.1 | -44.3 | -45.9 | -44.0 | -41.6 | -36.7 | -32.6 | -32.5 | -34.5 | -40.9 | -45.0 | -45.3 |
| 9          | -52.6 | -50.0 | -51.0 | -49.8 | -47.5 | -44.0 | -39.5 | -39.9 | -41.4 | -46.9 | -49.9 | -50.4 |
| 10         | -56.9 | -53.7 | -54.7 | -53.2 | -51.0 | -49.9 | -45.8 | -47.0 | -47.0 | -50.4 | -52.6 | -53.1 |
| 11         | -57.2 | -54.8 | -56.3 | -54.3 | -52.0 | -52.0 | -50.4 | -52.1 | -51.4 | -52.0 | -52.4 | -54.3 |
| 12         | -56.4 | -53.3 | -55.7 | -53.9 | -51.6 | -50.3 | -51.4 | -53.2 | -53.2 | -52.6 | -52.5 | -53.8 |
| 13         | -56.2 | -52.3 | -54.0 | -52.3 | -50.4 | -49.1 | -50.3 | -52.1 | -53.2 | -52.8 | -52.6 | -52.6 |
| 14         | -55.8 | -51.8 | --    | -52.3 | -50.5 | -48.8 | -50.1 | -51.4 | -54.0 | -52.9 | -52.6 | -52.5 |
| 15         | -56.4 | -51.4 | --    | -52.7 | -50.4 | -49.1 | -49.8 | -51.6 | -54.7 | -53.0 | -53.0 | -52.5 |
| 16         | --    | -51.5 | --    | --    | -50.3 | -49.6 | -49.8 | -51.9 | -55.3 | -53.4 | -53.3 | -53.0 |
| 17         | --    | --    | --    | --    | --    | --    | -49.6 | -51.8 | --    | --    | --    | --    |

|         | Number of Observations |    |    |    |    |    |    |    |     |     |     |     |
|---------|------------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|
| Surface | 84                     | 78 | 89 | 85 | 90 | 90 | 92 | 92 | 101 | 111 | 111 | 107 |
| 5       | 74                     | 73 | 80 | 74 | 87 | 84 | 88 | 89 | 92  | 96  | 95  | 98  |
| 10      | 55                     | 58 | 48 | 59 | 61 | 60 | 70 | 68 | 67  | 72  | 69  | 72  |
| 15      | 27                     | 39 | -- | 31 | 33 | 39 | 35 | 45 | 47  | 39  | 39  | 41  |





AVERAGE PRESSURES (Mbs.)

Elevation: 26 meters, m.s.l.

KETCHIKAN, ALASKA

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1008 | 1012 | 1009 | 1008 | 1012 | 1013 | 1015 | 1013 | 1012  | 1007 | 1008 | 1005 |
| 0.5      | 951  | 954  | 952  | 952  | 956  | 957  | 959  | 958  | 956   | 951  | 950  | 948  |
| 1.0      | 893  | 897  | 894  | 895  | 900  | 902  | 904  | 903  | 900   | 895  | 893  | 891  |
| 1.5      | 838  | 842  | 840  | 841  | 846  | 848  | 851  | 850  | 848   | 841  | 839  | 836  |
| 2.0      | 786  | 790  | 788  | 789  | 794  | 798  | 800  | 800  | 797   | 790  | 787  | 784  |
| 2.5      | 737  | 741  | 738  | 740  | 745  | 749  | 753  | 752  | 749   | 742  | 738  | 734  |
| 3.0      | 690  | 694  | 692  | 694  | 699  | 704  | 707  | 707  | 704   | 696  | 692  | 689  |
| 4        | 604  | 608  | 605  | 609  | 614  | 619  | 624  | 623  | 620   | 611  | 606  | 603  |
| 5        | 528  | 532  | 529  | 532  | 537  | 544  | 549  | 548  | 544   | 535  | 530  | 527  |
| 6        | 459  | 463  | 460  | 464  | 469  | 475  | 481  | 480  | 476   | 466  | 461  | 458  |
| 7        | 397  | 401  | 398  | 402  | 407  | 414  | 420  | 419  | 415   | 405  | 398  | 396  |
| 8        | 342  | 346  | 343  | 347  | 352  | 359  | 365  | 364  | 361   | 350  | 343  | 342  |
| 9        | 293  | 298  | 294  | 298  | 303  | 310  | 316  | 315  | 312   | 302  | 295  | 293  |
| 10       | 251  | 256  | 252  | 256  | 260  | 267  | 273  | 272  | 269   | 259  | 252  | 251  |
| 11       | 215  | 219  | 216  | 219  | 223  | 229  | 235  | 234  | 232   | 223  | 216  | 215  |
| 12       | 183  | 187  | 185  | 187  | 191  | 196  | 201  | 200  | 198   | 191  | 185  | 184  |
| 13       | 156  | 160  | 159  | 160  | 164  | 169  | 172  | 171  | 170   | 163  | 158  | 157  |
| 14       | 133  | 137  | 136  | 138  | 141  | 145  | 148  | 147  | 145   | 140  | 136  | 135  |
| 15       | 114  | 117  | 117  | 118  | 121  | 124  | 127  | 126  | 124   | 120  | 116  | 116  |
| 16       | --   | 100  | --   | --   | 103  | 107  | 109  | 108  | 107   | 103  | 100  | 99   |
| 17       | --   | --   | --   | --   | --   | --   | 94   | 93   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 76   | 78   | 79   | 73   | 73  | 73   | 72   | 79   | 81    | 83   | 81   | 84   |
| 0.5      | 75   | 75   | 79   | 76   | 74  | 78   | 78   | 80   | 79    | 83   | 82   | 85   |
| 1.0      | 75   | 72   | 78   | 78   | 77  | 81   | 83   | 82   | 78    | 84   | 83   | 84   |
| 1.5      | 75   | 70   | 77   | 80   | 79  | 81   | 83   | 81   | 76    | 83   | 81   | 81   |
| 2.0      | 74   | 67   | 74   | 78   | 78  | 79   | 77   | 76   | 73    | 79   | 78   | 77   |
| 2.5      | 71   | 62   | 70   | 72   | 75  | 74   | 71   | 72   | 69    | 72   | 72   | 70   |
| 3.0      | 67   | 59   | 67   | 69   | 71  | 70   | 69   | 67   | 65    | 66   | 66   | 65   |
| 4        | 63   | 58   | 64   | 63   | 64  | 66   | 63   | 60   | 60    | 61   | 62   | 66   |
| 5        | 62   | 55   | 61   | 61   | 61  | 61   | 60   | 55   | 57    | 59   | 62   | 66   |
| 6        | 63   | 53   | 54   | 59   | 58  | 59   | 58   | 51   | 56    | 60   | 62   | 65   |
| 7        | --   | 50   | --   | 53   | 54  | 60   | 58   | 51   | 55    | 60   | 68   | 62   |
| 8        | --   | --   | --   | --   | --  | --   | 57   | 49   | 53    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |    |    |    |     |     |     |     |
|---------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| Surface | 84 | 77 | 88 | 85 | 91 | 90 | 92 | 92 | 101 | 111 | 110 | 107 |
| 5       | 68 | 68 | 72 | 67 | 83 | 81 | 83 | 88 | 89  | 94  | 87  | 86  |
| 7       | -- | 29 | -- | 31 | 49 | 70 | 72 | 81 | 72  | 51  | 30  | 34  |

AVERAGE TEMPERATURES °C

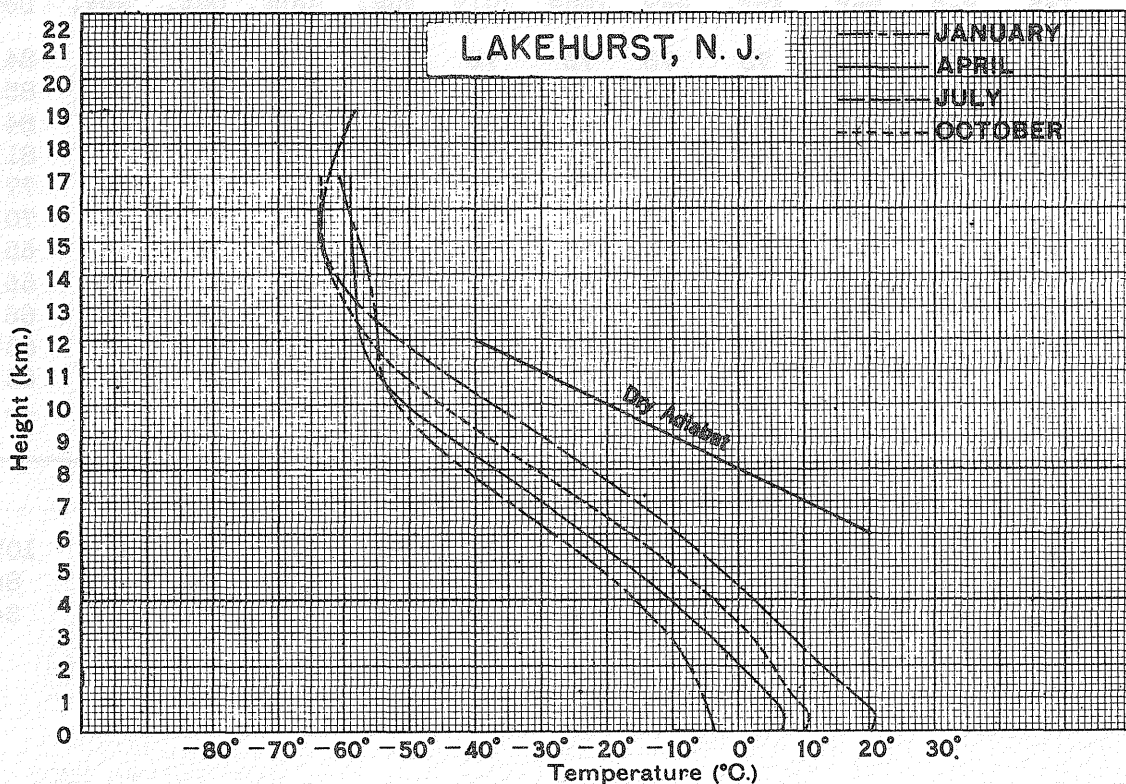
Lakehurst, N. J.  
Elevation: 39 meters, m.s.l.

Period of Record: October 1939-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -3.7  | -2.0  | 1.1   | 6.6   | 13.2  | 18.2  | 20.3  | 19.0  | 15.4  | 10.2  | 4.8   | -0.1  |
| 0.5        | -4.2  | -3.2  | 0.2   | 7.1   | 14.3  | 18.7  | 20.9  | 19.5  | 16.8  | 10.8  | 4.4   | -0.6  |
| 1.0        | -5.2  | -4.8  | -1.9  | 5.1   | 12.2  | 16.5  | 18.5  | 16.9  | 14.7  | 8.7   | 2.2   | -1.8  |
| 1.5        | -6.1  | -6.3  | -3.6  | 2.5   | 9.1   | 13.7  | 15.4  | 13.9  | 12.3  | 6.9   | 0.6   | -2.8  |
| 2.0        | -7.3  | -7.6  | -5.3  | 0.1   | 6.3   | 10.9  | 12.6  | 11.4  | 9.7   | 5.3   | -1.1  | -3.9  |
| 2.5        | -8.9  | -9.7  | -7.1  | -2.5  | 3.4   | 8.3   | 10.0  | 9.2   | 7.7   | 3.4   | -2.9  | -5.1  |
| 3.0        | -11.0 | -11.8 | -9.3  | -5.2  | 0.7   | 5.8   | 7.4   | 6.8   | 5.6   | 1.2   | -5.0  | -7.6  |
| 4          | -15.9 | -16.9 | -14.6 | -10.5 | -4.9  | 0.7   | 2.0   | 1.8   | 0.5   | -3.9  | -10.1 | -12.6 |
| 5          | -21.8 | -23.0 | -20.6 | -16.5 | -10.7 | -4.7  | -3.4  | -3.6  | -5.0  | -10.1 | -16.0 | -18.6 |
| 6          | -28.2 | -29.4 | -27.3 | -23.1 | -17.0 | -10.7 | -9.2  | -9.8  | -11.1 | -16.3 | -22.5 | -25.2 |
| 7          | -35.1 | -36.1 | -34.2 | -30.0 | -24.2 | -17.1 | -15.6 | -16.4 | -17.9 | -23.3 | -29.3 | -31.8 |
| 8          | -41.6 | -42.6 | -41.0 | -37.1 | -31.4 | -24.0 | -22.5 | -23.4 | -25.1 | -31.0 | -36.1 | -38.5 |
| 9          | -47.7 | -47.9 | -47.6 | -44.1 | -38.7 | -31.4 | -29.7 | -30.5 | -32.5 | -38.2 | -42.9 | -44.9 |
| 10         | -52.0 | -51.4 | -52.5 | -50.3 | -45.6 | -38.7 | -37.2 | -38.0 | -39.7 | -45.1 | -49.1 | -50.5 |
| 11         | -54.3 | -53.4 | -55.3 | -55.1 | -51.7 | -46.1 | -44.7 | -45.3 | -46.8 | -51.5 | -53.9 | -54.2 |
| 12         | -54.8 | -52.4 | -55.2 | -57.6 | -56.5 | -53.1 | -51.7 | -51.9 | -53.0 | -55.9 | -57.4 | -56.5 |
| 13         | -55.3 | -52.8 | -54.9 | -58.2 | -59.4 | -58.9 | -57.6 | -57.4 | -57.9 | -59.1 | -59.3 | -57.7 |
| 14         | -56.2 | -54.2 | -56.1 | -58.2 | -60.2 | -62.2 | -61.3 | -61.2 | -61.3 | -61.5 | -60.8 | -58.7 |
| 15         | -57.8 | -55.4 | -56.8 | -58.6 | -59.9 | -63.0 | -63.3 | -63.8 | -63.3 | -63.7 | -61.1 | -60.1 |
| 16         | -59.3 | -57.2 | -58.1 | -58.9 | -59.9 | -63.6 | -63.3 | -63.9 | -64.3 | -63.6 | -61.8 | -60.9 |
| 17         | -60.9 | --    | -58.5 | -59.0 | -59.7 | -63.1 | -62.3 | -62.8 | -64.0 | -63.9 | -62.2 | --    |
| 18         | --    | --    | --    | --    | -58.9 | -61.4 | -60.6 | -60.9 | -62.7 | --    | --    | --    |
| 19         | --    | --    | --    | --    | --    | --    | -58.4 | -58.8 | -62.3 | --    | --    | --    |

Number of Observations

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 116 | 105 | 113 | 113 | 123 | 118 | 123 | 118 | 110 | 148 | 133 | 139 |
| 5       | 109 | 104 | 110 | 113 | 121 | 117 | 120 | 116 | 108 | 133 | 129 | 133 |
| 10      | 93  | 93  | 102 | 100 | 115 | 114 | 114 | 107 | 96  | 100 | 109 | 111 |
| 15      | 55  | 52  | 58  | 70  | 97  | 81  | 95  | 87  | 75  | 61  | 57  | 58  |
| 18      | --  | --  | --  | --  | 40  | 37  | 51  | 57  | 37  | --  | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 39 meters, m.s.l.

LAKEHURST, N. J.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1014 | 1010 | 1011 | 1012 | 1011 | 1010 | 1011 | 1011 | 1013  | 1013 | 1015 | 1013 |
| 0.5      | 956  | 952  | 954  | 957  | 958  | 958  | 959  | 959  | 960   | 958  | 959  | 957  |
| 1.0      | 897  | 894  | 897  | 900  | 903  | 903  | 905  | 905  | 905   | 903  | 902  | 898  |
| 1.5      | 842  | 839  | 842  | 846  | 850  | 852  | 854  | 853  | 853   | 850  | 848  | 843  |
| 2.0      | 790  | 786  | 790  | 795  | 800  | 802  | 805  | 804  | 803   | 800  | 796  | 792  |
| 2.5      | 740  | 737  | 741  | 747  | 752  | 755  | 758  | 757  | 756   | 752  | 748  | 743  |
| 3.0      | 694  | 691  | 695  | 701  | 707  | 711  | 713  | 713  | 712   | 707  | 701  | 697  |
| 4        | 608  | 605  | 610  | 617  | 623  | 628  | 631  | 630  | 629   | 624  | 617  | 612  |
| 5        | 532  | 529  | 534  | 541  | 548  | 554  | 557  | 556  | 555   | 549  | 541  | 536  |
| 6        | 464  | 461  | 465  | 472  | 481  | 487  | 490  | 489  | 488   | 481  | 473  | 468  |
| 7        | 403  | 400  | 404  | 411  | 420  | 427  | 431  | 429  | 428   | 420  | 412  | 407  |
| 8        | 348  | 345  | 350  | 357  | 365  | 373  | 376  | 375  | 373   | 366  | 358  | 353  |
| 9        | 300  | 296  | 301  | 308  | 316  | 325  | 327  | 326  | 324   | 317  | 309  | 304  |
| 10       | 258  | 255  | 259  | 265  | 273  | 281  | 284  | 283  | 281   | 274  | 266  | 262  |
| 11       | 221  | 219  | 222  | 227  | 235  | 243  | 245  | 244  | 242   | 236  | 229  | 225  |
| 12       | 189  | 187  | 189  | 195  | 201  | 208  | 211  | 210  | 208   | 202  | 195  | 193  |
| 13       | 162  | 161  | 162  | 166  | 172  | 178  | 180  | 180  | 178   | 173  | 167  | 165  |
| 14       | 138  | 138  | 139  | 142  | 147  | 152  | 154  | 153  | 152   | 147  | 142  | 141  |
| 15       | 118  | 118  | 118  | 121  | 125  | 129  | 131  | 130  | 129   | 125  | 121  | 120  |
| 16       | 102  | 101  | 102  | 104  | 107  | 110  | 112  | 111  | 110   | 107  | 103  | 103  |
| 17       | 87   | --   | 86   | 88   | 91   | 94   | 95   | 95   | 94    | 91   | 89   | --   |
| 18       | --   | --   | --   | --   | 78   | 80   | 81   | 81   | 80    | --   | --   | --   |
| 19       | --   | --   | --   | --   | --   | --   | 70   | 70   | 68    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 74   | 69   | 71   | 74   | 80  | 85   | 87   | 85   | 85    | 83   | 75   | 74   |
| 0.5      | 69   | 62   | 64   | 61   | 65  | 67   | 70   | 67   | 70    | 69   | 62   | 68   |
| 1.0      | 66   | 62   | 62   | 60   | 62  | 63   | 65   | 63   | 64    | 64   | 61   | 65   |
| 1.5      | 66   | 60   | 60   | 60   | 62  | 64   | 65   | 63   | 59    | 60   | 58   | 61   |
| 2.0      | 63   | 57   | 60   | 59   | 62  | 63   | 64   | 59   | 57    | 56   | 56   | 61   |
| 2.5      | 61   | 57   | 58   | 58   | 62  | 59   | 61   | 50   | 51    | 55   | 56   | 61   |
| 3.0      | 58   | 56   | 56   | 59   | 61  | 56   | 58   | 47   | 54    | 54   | 55   | 58   |
| 4        | 56   | 55   | 59   | 58   | 57  | 51   | 53   | 45   | 45    | 54   | 56   | 57   |
| 5        | 58   | 57   | 59   | 60   | 55  | 49   | 55   | 42   | 44    | 55   | 59   | 62   |
| 6        | 63   | 61   | 58   | 62   | 53  | 50   | 55   | 46   | 53    | 57   | 64   | 66   |
| 7        | 68   | 67   | 60   | 65   | 55  | 56   | 55   | 51   | 55    | 60   | 67   | 69   |
| 8        | --   | --   | --   | 68   | 66  | 65   | 61   | 54   | --    | 65   | --   | --   |
| 9        | --   | --   | --   | --   | --  | 70   | 62   | 59   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 114 | 105 | 113 | 113 | 123 | 118 | 122 | 117 | 110 | 147 | 130 | 136 |
| 5       | 83  | 76  | 81  | 88  | 95  | 87  | 91  | 67  | 63  | 77  | 82  | 94  |
| 7       | 48  | 43  | 35  | 54  | 63  | 67  | 52  | 45  | 27  | 66  | 46  | 68  |
| 9       | --  | --  | --  | --  | --  | 34  | 37  | 30  | --  | --  | --  | --  |

Observations taken at 0400 between Oct. 1, 1939-Oct. 31, 1941, and at 2300 thereafter.

AVERAGE TEMPERATURES °C.

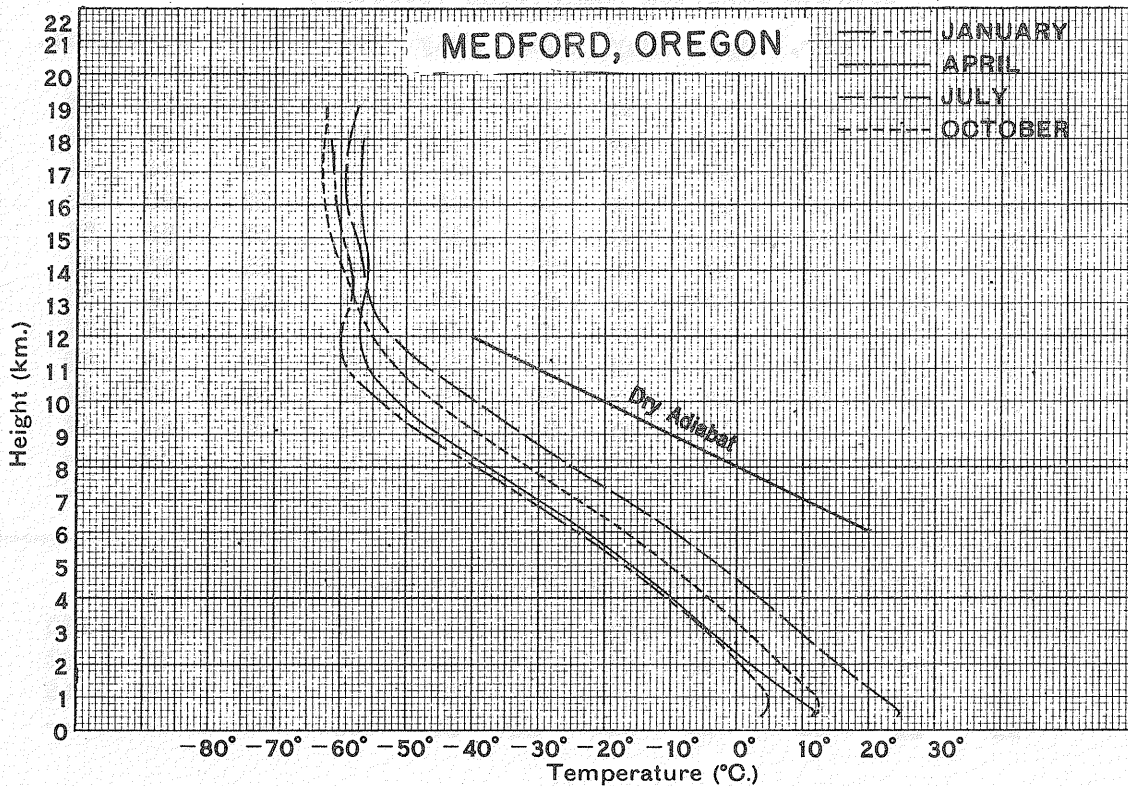
Medford, Oreg.

Elevation: 409 meters, m.s.l.

Period of Record: September 1939-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 3.9   | 7.0   | 9.1   | 11.4  | 14.6  | 18.0  | 24.5  | 23.0  | 19.3  | 11.7  | 6.4   | 4.6   |
| 0.5        | 4.3   | 7.4   | 9.7   | 11.6  | 14.6  | 17.8  | 24.7  | 23.0  | 18.9  | 12.6  | 7.1   | 4.7   |
| 1.0        | 4.8   | 5.9   | 8.0   | 9.0   | 12.0  | 15.1  | 21.9  | 20.2  | 17.2  | 12.1  | 7.9   | 4.6   |
| 1.5        | 3.0   | 2.8   | 4.5   | 5.3   | 8.4   | 11.7  | 18.3  | 16.8  | 14.1  | 9.5   | 6.5   | 3.3   |
| 2.0        | 0.4   | -0.4  | 0.9   | 1.8   | 5.0   | 8.5   | 15.1  | 13.5  | 11.0  | 6.7   | 4.0   | 0.8   |
| 2.5        | -2.1  | -3.3  | -1.9  | -1.3  | 2.0   | 5.9   | 12.4  | 10.7  | 8.1   | 4.0   | 1.3   | -1.5  |
| 3.0        | -4.8  | -6.2  | -4.6  | -4.2  | -0.8  | 3.2   | 9.8   | 8.1   | 5.3   | 1.2   | -1.3  | -4.0  |
| 4          | -10.8 | -12.2 | -10.7 | -9.7  | -6.6  | -2.5  | 3.4   | 1.9   | -0.7  | -4.3  | -7.2  | -9.9  |
| 5          | -17.3 | -18.8 | -17.0 | -16.2 | -12.6 | -9.0  | -2.9  | -4.4  | -6.9  | -10.3 | -13.3 | -16.2 |
| 6          | -24.5 | -26.0 | -24.0 | -23.0 | -19.2 | -15.5 | -9.8  | -10.9 | -13.6 | -17.0 | -20.1 | -23.0 |
| 7          | -31.9 | -33.3 | -31.5 | -30.3 | -26.0 | -22.4 | -17.1 | -18.0 | -20.9 | -24.4 | -27.4 | -30.1 |
| 8          | -39.8 | -40.6 | -39.4 | -37.8 | -33.5 | -29.9 | -24.7 | -25.6 | -28.6 | -31.8 | -34.9 | -37.9 |
| 9          | -47.4 | -47.7 | -46.8 | -45.0 | -40.7 | -37.3 | -32.4 | -33.2 | -36.3 | -39.1 | -42.2 | -45.3 |
| 10         | -54.2 | -53.4 | -53.7 | -51.0 | -47.3 | -44.0 | -39.8 | -40.5 | -43.5 | -45.7 | -49.5 | -51.7 |
| 11         | -59.1 | -56.5 | -58.5 | -55.2 | -53.0 | -50.0 | -46.8 | -47.1 | -50.6 | -51.2 | -55.7 | -56.1 |
| 12         | -60.1 | -56.1 | -60.1 | -57.2 | -56.4 | -54.0 | -52.3 | -51.6 | -54.0 | -55.2 | -59.5 | -57.8 |
| 13         | -58.4 | -55.4 | -58.2 | -56.5 | -57.6 | -55.8 | -55.2 | -54.4 | -56.4 | -57.9 | -61.0 | -58.0 |
| 14         | -58.7 | -55.6 | -57.5 | -55.8 | -57.5 | -56.6 | -56.5 | -56.6 | -58.0 | -59.9 | -61.9 | -57.9 |
| 15         | -59.6 | -57.0 | -58.0 | -56.4 | -57.2 | -57.0 | -57.9 | -58.3 | -59.6 | -61.5 | -63.2 | -59.7 |
| 16         | -60.9 | -58.6 | -58.8 | -57.0 | -57.4 | -57.5 | -59.1 | -59.9 | -60.6 | -62.7 | -63.5 | -60.8 |
| 17         | -61.2 | -59.8 | -59.6 | -57.1 | -57.1 | -58.0 | -59.4 | -60.2 | -60.8 | -63.1 | -63.5 | -61.6 |
| 18         | -61.5 | --    | -59.6 | -56.5 | -57.0 | -58.2 | -58.8 | -59.6 | -60.1 | -62.6 | -64.0 | -60.8 |
| 19         | --    | --    | --    | --    | -56.6 | -58.8 | -57.7 | -58.6 | -59.2 | -62.3 | --    | --    |
| 20         | --    | --    | --    | --    | --    | --    | --    | -57.5 | -58.8 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 121                    | 111 | 123 | 118 | 123 | 120 | 105 | 112 | 150 | 154 | 149 | 154 |
| 5       | 116                    | 106 | 122 | 116 | 123 | 115 | 104 | 110 | 150 | 153 | 140 | 148 |
| 10      | 107                    | 88  | 108 | 107 | 118 | 104 | 103 | 101 | 145 | 147 | 120 | 131 |
| 15      | 80                     | 62  | 84  | 88  | 102 | 86  | 95  | 87  | 130 | 127 | 83  | 85  |
| 18      | 37                     | --  | 39  | 36  | 56  | 50  | 64  | 61  | 94  | 76  | 38  | 43  |



AVERAGE PRESSURES (Mbs.)

Elevation: 409 meters, m.s.l.

MEDFORD, OREG.

45

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 969  | 968  | 969  | 967  | 968 | 968  | 968  | 966  | 967   | 969  | 972  | 969  |
| 0.5      | 958  | 957  | 958  | 956  | 957 | 957  | 957  | 956  | 956   | 958  | 960  | 958  |
| 1.0      | 901  | 900  | 902  | 900  | 902 | 902  | 904  | 902  | 902   | 903  | 904  | 901  |
| 1.5      | 847  | 846  | 848  | 847  | 849 | 850  | 853  | 851  | 850   | 850  | 851  | 848  |
| 2.0      | 796  | 795  | 797  | 797  | 799 | 800  | 804  | 802  | 801   | 800  | 800  | 796  |
| 2.5      | 748  | 747  | 749  | 748  | 751 | 753  | 758  | 756  | 754   | 753  | 752  | 748  |
| 3.0      | 702  | 701  | 703  | 703  | 706 | 708  | 714  | 712  | 709   | 707  | 706  | 702  |
| 4        | 618  | 616  | 618  | 618  | 622 | 626  | 632  | 630  | 627   | 624  | 622  | 618  |
| 5        | 542  | 540  | 542  | 543  | 547 | 551  | 558  | 556  | 553   | 549  | 547  | 542  |
| 6        | 473  | 471  | 474  | 474  | 479 | 483  | 491  | 489  | 485   | 481  | 479  | 474  |
| 7        | 411  | 410  | 412  | 413  | 418 | 423  | 431  | 429  | 425   | 421  | 417  | 413  |
| 8        | 356  | 354  | 357  | 358  | 363 | 368  | 376  | 374  | 370   | 366  | 362  | 358  |
| 9        | 307  | 305  | 307  | 308  | 314 | 319  | 327  | 325  | 321   | 316  | 313  | 308  |
| 10       | 263  | 262  | 264  | 265  | 270 | 276  | 283  | 281  | 278   | 273  | 270  | 264  |
| 11       | 225  | 224  | 226  | 227  | 232 | 237  | 244  | 242  | 239   | 235  | 231  | 227  |
| 12       | 192  | 192  | 192  | 194  | 198 | 203  | 210  | 208  | 205   | 201  | 197  | 193  |
| 13       | 163  | 164  | 164  | 166  | 170 | 174  | 179  | 178  | 175   | 172  | 168  | 165  |
| 14       | 139  | 140  | 140  | 141  | 145 | 148  | 153  | 152  | 149   | 147  | 143  | 141  |
| 15       | 119  | 120  | 119  | 121  | 123 | 127  | 131  | 130  | 127   | 125  | 122  | 120  |
| 16       | 101  | 102  | 102  | 104  | 106 | 109  | 112  | 111  | 109   | 106  | 103  | 102  |
| 17       | 86   | 88   | 87   | 88   | 90  | 93   | 95   | 94   | 93    | 91   | 88   | 88   |
| 18       | --   | --   | 74   | 76   | 77  | 79   | 81   | 81   | 79    | 77   | 75   | 75   |
| 19       | --   | --   | --   | --   | 66  | 68   | 70   | 69   | 67    | 66   | --   | --   |
| 20       | --   | --   | --   | --   | --  | --   | --   | 59   | 57    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 86   | 76   | 67   | 65   | 61  | 55   | 39   | 45   | 55    | 75   | 86   | 87   |
| 0.5      | 83   | 74   | 65   | 64   | 60  | 55   | 39   | 45   | 54    | 71   | 82   | 86   |
| 1.0      | 68   | 68   | 61   | 63   | 61  | 55   | 41   | 47   | 53    | 65   | 69   | 78   |
| 1.5      | 62   | 70   | 64   | 67   | 66  | 60   | 46   | 53   | 57    | 64   | 63   | 71   |
| 2.0      | 61   | 71   | 67   | 71   | 71  | 65   | 51   | 58   | 58    | 62   | 60   | 68   |
| 2.5      | 59   | 68   | 64   | 71   | 70  | 64   | 52   | 59   | 54    | 58   | 56   | 63   |
| 3.0      | 57   | 62   | 60   | 67   | 67  | 59   | 48   | 54   | 50    | 55   | 51   | 58   |
| 4        | 52   | 58   | 54   | 55   | 57  | 51   | 42   | 45   | 46    | 49   | 47   | 55   |
| 5        | 51   | 55   | 51   | 51   | 52  | 48   | 40   | 40   | 43    | 45   | 43   | 55   |
| 6        | 49   | 52   | 48   | 50   | 50  | 45   | 38   | 37   | 40    | 43   | 42   | 53   |
| 7        | 44   | 50   | 46   | 47   | 50  | 43   | 37   | 36   | 39    | 43   | 41   | 51   |
| 8        | 38   | 48   | 47   | 46   | 48  | 42   | 36   | 36   | 38    | 40   | 42   | 49   |
| 9        | --   | --   | --   | --   | 46  | 40   | 36   | 35   | 35    | 36   | 40   | --   |
| 10       | --   | --   | --   | --   | --  | --   | 35   | 36   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 121 | 111 | 123 | 118 | 123 | 120 | 104 | 112 | 150 | 154 | 149 | 154 |
| 5       | 115 | 106 | 121 | 116 | 123 | 114 | 102 | 109 | 150 | 153 | 139 | 145 |
| 7       | 92  | 84  | 100 | 103 | 119 | 109 | 100 | 104 | 146 | 149 | 127 | 126 |
| 9       | --  | --  | --  | --  | 44  | 59  | 93  | 80  | 89  | 63  | 25  | --  |

AVERAGE TEMPERATURES °C

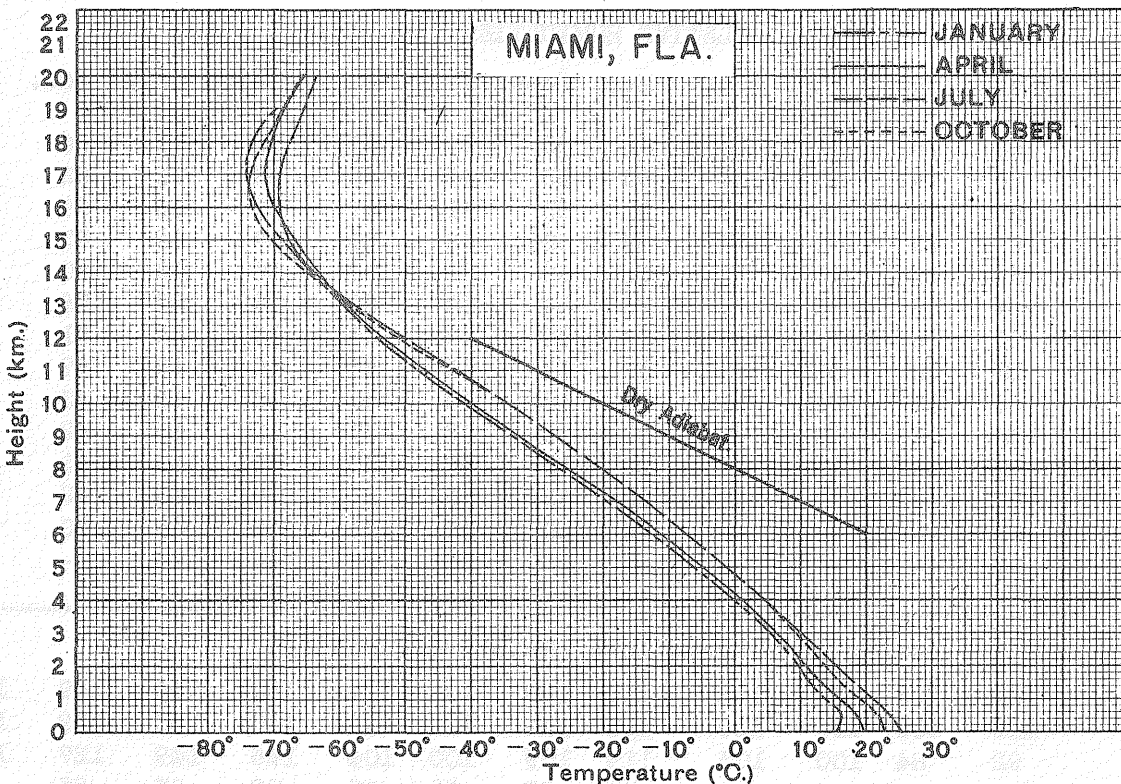
Miami, Fla.  
Elevation: 4 meters, m.s.l.

Period of Record: July 1939-July 1940  
November 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 15.6  | 14.6  | 17.9  | 19.6  | 21.9  | 24.5  | 25.1  | 25.0  | 24.6  | 22.9  | 19.8  | 18.0  |
| 0.5        | 16.2  | 14.9  | 17.1  | 18.5  | 20.7  | 23.0  | 23.8  | 24.2  | 23.7  | 22.0  | 19.1  | 18.0  |
| 1.0        | 13.4  | 12.2  | 14.3  | 15.5  | 17.6  | 20.3  | 20.9  | 21.4  | 20.8  | 18.8  | 15.9  | 15.1  |
| 1.5        | 11.3  | 10.1  | 12.2  | 13.0  | 15.0  | 17.4  | 18.1  | 18.6  | 17.9  | 16.1  | 13.2  | 12.9  |
| 2.0        | 9.8   | 9.0   | 10.4  | 10.8  | 12.7  | 14.7  | 15.4  | 15.8  | 15.1  | 13.7  | 11.5  | 11.3  |
| 2.5        | 7.6   | 7.4   | 8.6   | 8.7   | 10.4  | 11.9  | 12.8  | 13.2  | 12.5  | 11.6  | 9.8   | 9.5   |
| 3.0        | 5.1   | 5.2   | 6.0   | 6.4   | 7.8   | 9.1   | 10.0  | 10.4  | 9.9   | 9.4   | 7.7   | 6.9   |
| 4          | -0.3  | 0.2   | 0.5   | 1.0   | 2.5   | 3.3   | 4.4   | 5.0   | 4.5   | 4.4   | 2.7   | 1.6   |
| 5          | -6.1  | -5.7  | -5.6  | -4.8  | -3.3  | -2.3  | -1.5  | -0.7  | -1.0  | -1.0  | -3.1  | -4.4  |
| 6          | -12.8 | -12.3 | -11.7 | -11.3 | -9.5  | -8.0  | -7.4  | -6.5  | -6.9  | -7.2  | -9.2  | -10.8 |
| 7          | -19.9 | -19.1 | -18.9 | -18.2 | -16.4 | -14.3 | -13.6 | -12.7 | -13.2 | -13.7 | -16.0 | -17.8 |
| 8          | -26.9 | -26.1 | -25.8 | -25.4 | -23.7 | -20.8 | -20.3 | -19.2 | -19.8 | -20.6 | -23.2 | -25.0 |
| 9          | -34.0 | -33.4 | -33.1 | -32.7 | -30.9 | -28.1 | -27.4 | -26.2 | -26.8 | -27.8 | -30.5 | -32.5 |
| 10         | -41.2 | -40.8 | -40.5 | -40.2 | -38.5 | -35.6 | -34.9 | -33.7 | -34.4 | -35.3 | -38.2 | -40.2 |
| 11         | -48.0 | -47.8 | -47.3 | -47.0 | -45.9 | -43.3 | -42.7 | -41.4 | -42.4 | -42.9 | -45.6 | -48.1 |
| 12         | -54.2 | -53.6 | -53.1 | -54.0 | -53.0 | -51.1 | -50.4 | -49.0 | -50.2 | -51.0 | -53.0 | -54.9 |
| 13         | -59.5 | -58.5 | -58.4 | -59.1 | -59.0 | -58.3 | -57.7 | -56.3 | -57.2 | -57.8 | -60.1 | -61.9 |
| 14         | -64.3 | -63.1 | -63.3 | -63.3 | -63.3 | -64.4 | -63.9 | -63.0 | -63.1 | -65.4 | -66.3 | -66.5 |
| 15         | -68.9 | -67.5 | -67.8 | -66.7 | -66.3 | -69.0 | -67.9 | -67.5 | -69.7 | -70.2 | -70.1 | -70.7 |
| 16         | -72.7 | -71.7 | -71.1 | -69.7 | -68.1 | -72.0 | -69.1 | -69.5 | -72.1 | -73.5 | -74.2 | -73.0 |
| 17         | -74.2 | -74.3 | -73.2 | -71.4 | -69.0 | -71.4 | -69.3 | -70.0 | -71.3 | -73.7 | -75.2 | -73.3 |
| 18         | -73.4 | -74.0 | -72.5 | -70.5 | -68.2 | -69.4 | -67.8 | -67.0 | -69.0 | -71.4 | -73.1 | -72.1 |
| 19         | -69.4 | -70.4 | -70.8 | -68.4 | -66.2 | -66.4 | -65.5 | -64.8 | -66.6 | -68.6 | -70.2 | -68.4 |
| 20         | --    | --    | --    | -65.3 | --    | --    | -63.6 | -64.1 | -64.2 | -65.9 | -67.2 | --    |

Number of Observations

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124 | 112 | 124 | 117 | 124 | 116 | 125 | 123 | 120 | 123 | 149 | 155 |
| 5       | 119 | 109 | 121 | 107 | 119 | 110 | 123 | 120 | 114 | 118 | 144 | 151 |
| 10      | 115 | 102 | 107 | 100 | 109 | 99  | 121 | 112 | 108 | 107 | 140 | 143 |
| 15      | 95  | 79  | 91  | 89  | 98  | 81  | 108 | 93  | 87  | 84  | 106 | 111 |
| 18      | 55  | 40  | 52  | 64  | 74  | 61  | 90  | 66  | 59  | 61  | 69  | 63  |



AVERAGE PRESSURES (Mbs.)

Elevation: 4 meters, m.s.l.

MIAMI, FLA.

47

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1019 | 1018 | 1017 | 1017 | 1016 | 1017 | 1018 | 1016 | 1015  | 1015 | 1018 | 1018 |
| 0.5      | 962  | 960  | 960  | 960  | 960  | 961  | 962  | 961  | 960   | 959  | 961  | 961  |
| 1.0      | 907  | 905  | 905  | 906  | 906  | 908  | 909  | 907  | 906   | 905  | 907  | 907  |
| 1.5      | 855  | 853  | 853  | 854  | 854  | 856  | 858  | 856  | 856   | 854  | 855  | 855  |
| 2.0      | 804  | 802  | 803  | 804  | 805  | 807  | 809  | 807  | 806   | 805  | 805  | 805  |
| 2.5      | 757  | 755  | 757  | 757  | 758  | 761  | 762  | 761  | 760   | 758  | 758  | 758  |
| 3.0      | 713  | 710  | 712  | 713  | 714  | 716  | 717  | 717  | 716   | 714  | 714  | 714  |
| 4        | 630  | 628  | 629  | 630  | 632  | 635  | 636  | 635  | 635   | 633  | 632  | 631  |
| 5        | 555  | 554  | 555  | 556  | 558  | 561  | 562  | 562  | 561   | 559  | 558  | 557  |
| 6        | 488  | 487  | 488  | 489  | 491  | 494  | 495  | 495  | 494   | 493  | 491  | 489  |
| 7        | 427  | 426  | 428  | 428  | 431  | 433  | 435  | 435  | 434   | 433  | 431  | 429  |
| 8        | 373  | 372  | 373  | 374  | 376  | 379  | 380  | 381  | 380   | 378  | 376  | 375  |
| 9        | 324  | 323  | 324  | 325  | 327  | 330  | 332  | 332  | 331   | 329  | 327  | 326  |
| 10       | 280  | 280  | 281  | 282  | 284  | 287  | 288  | 289  | 288   | 286  | 284  | 282  |
| 11       | 241  | 241  | 242  | 243  | 245  | 248  | 249  | 250  | 249   | 247  | 245  | 243  |
| 12       | 207  | 207  | 208  | 208  | 210  | 213  | 214  | 215  | 214   | 213  | 210  | 209  |
| 13       | 176  | 177  | 177  | 178  | 179  | 182  | 183  | 184  | 183   | 182  | 180  | 178  |
| 14       | 150  | 150  | 151  | 151  | 153  | 155  | 156  | 157  | 156   | 155  | 153  | 151  |
| 15       | 127  | 128  | 128  | 128  | 130  | 132  | 133  | 134  | 132   | 131  | 129  | 128  |
| 16       | 107  | 108  | 108  | 109  | 110  | 111  | 112  | 113  | 112   | 111  | 109  | 108  |
| 17       | 91   | 91   | 92   | 92   | 93   | 94   | 95   | 96   | 94    | 94   | 92   | 91   |
| 18       | 76   | 77   | 77   | 78   | 79   | 79   | 80   | 81   | 79    | 79   | 77   | 77   |
| 19       | 65   | 64   | 66   | 66   | 67   | 67   | 68   | 69   | 68    | 67   | 64   | 65   |
| 20       | --   | --   | --   | 56   | 57   | --   | 58   | 59   | 57    | 57   | 56   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 88   | 85   | 85   | 83   | 84  | 89   | 89   | 89   | 90    | 89   | 85   | 89   |
| 0.5      | 79   | 76   | 80   | 78   | 81  | 86   | 84   | 86   | 85    | 84   | 80   | 81   |
| 1.0      | 77   | 75   | 78   | 75   | 79  | 78   | 79   | 80   | 81    | 83   | 82   | 78   |
| 1.5      | 68   | 67   | 67   | 69   | 74  | 73   | 74   | 76   | 80    | 79   | 78   | 70   |
| 2.0      | 56   | 55   | 58   | 61   | 65  | 70   | 69   | 71   | 75    | 71   | 67   | 57   |
| 2.5      | 48   | 47   | 49   | 52   | 57  | 66   | 64   | 66   | 72    | 62   | 55   | 49   |
| 3.0      | 45   | 42   | 45   | 45   | 50  | 62   | 61   | 63   | 69    | 54   | 48   | 43   |
| 4        | 39   | 38   | 41   | 37   | 42  | 60   | 58   | 58   | 61    | 46   | 39   | 39   |
| 5        | 34   | 36   | 37   | 33   | 38  | 58   | 58   | 58   | 58    | 39   | 35   | 36   |
| 6        | 32   | 35   | 35   | 32   | 36  | 56   | 57   | 56   | 56    | 37   | 33   | 35   |
| 7        | 31   | 35   | 34   | 31   | 33  | 56   | 55   | 53   | 52    | 36   | 33   | 35   |
| 8        | 32   | 33   | 34   | 31   | 32  | 54   | 53   | 51   | 51    | 35   | 32   | 34   |
| 9        | 32   | 32   | 34   | 28   | 33  | 52   | 51   | 49   | 51    | 34   | 31   | 34   |
| 10       | --   | --   | --   | --   | --  | 53   | 52   | 49   | 48    | 35   | 31   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 123 | 112 | 124 | 117 | 124 | 116 | 124 | 123 | 120 | 123 | 144 | 155 |
| 5       | 116 | 104 | 114 | 103 | 115 | 108 | 120 | 116 | 110 | 110 | 141 | 149 |
| 7       | 114 | 102 | 105 | 102 | 111 | 102 | 122 | 113 | 107 | 110 | 139 | 147 |
| 9       | 68  | 62  | 72  | 77  | 82  | 86  | 111 | 104 | 94  | 91  | 112 | 96  |

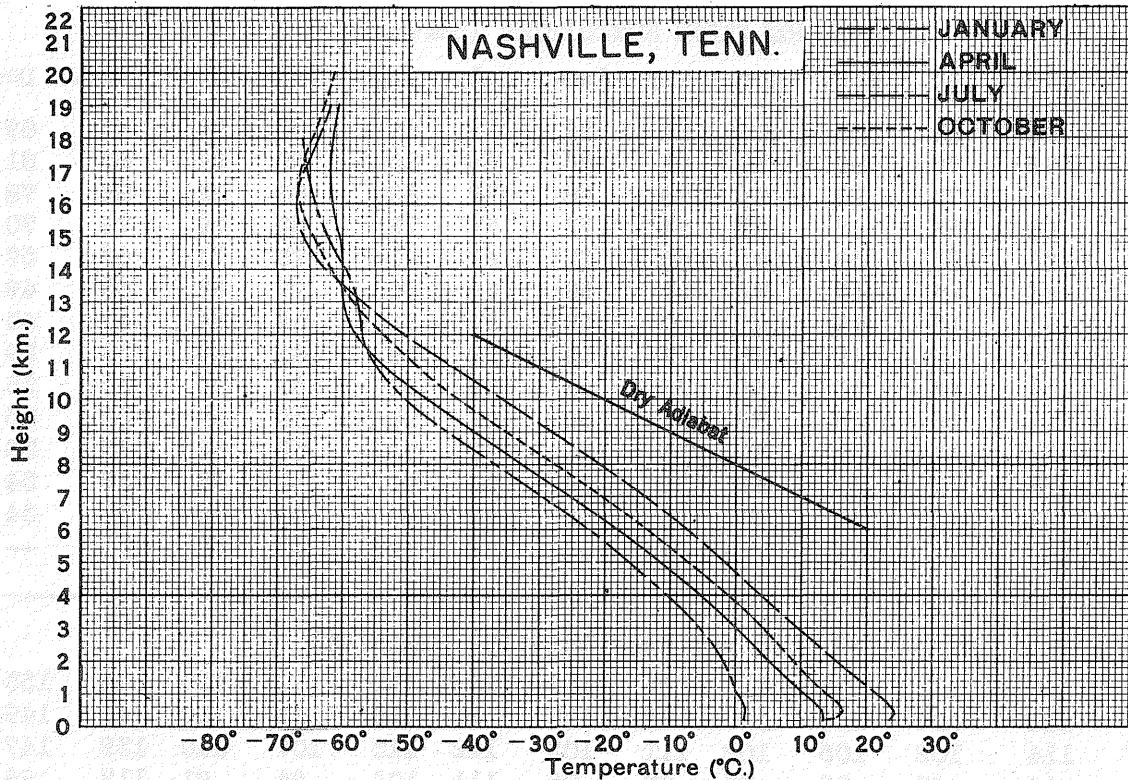
AVERAGE TEMPERATURES °C.

Nashville, Tenn.  
Elevation: 180 meters, m.s.l.

Period of Record: July 1938-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| surface    | 1.3   | 3.3   | 7.2   | 13.2  | 17.4  | 22.6  | 23.5  | 23.1  | 19.3  | 14.0  | 6.7   | 4.4   |
| 0.5        | 1.5   | 2.6   | 7.1   | 13.3  | 18.3  | 23.1  | 24.1  | 24.1  | 20.7  | 16.4  | 8.2   | 4.4   |
| 1.0        | 0.3   | 0.6   | 4.8   | 10.8  | 15.5  | 20.4  | 21.7  | 21.5  | 18.4  | 13.8  | 6.2   | 3.1   |
| 1.5        | -0.4  | -0.6  | 2.8   | 7.8   | 7.6   | 17.1  | 18.4  | 18.4  | 15.4  | 11.2  | 4.6   | 2.4   |
| 2.0        | -1.6  | -2.0  | 0.7   | 5.3   | 9.3   | 14.2  | 15.4  | 15.4  | 12.7  | 9.0   | 2.9   | 1.3   |
| 2.5        | -3.3  | -3.9  | -1.3  | 3.0   | 6.6   | 11.4  | 12.5  | 12.6  | 10.3  | 6.6   | 1.1   | -0.3  |
| 3.0        | -5.5  | -6.1  | -3.7  | 0.3   | 4.0   | 8.7   | 9.7   | 9.9   | 7.8   | 4.2   | -1.0  | -2.3  |
| 4          | -10.4 | -10.8 | -9.4  | -5.1  | -1.4  | 3.0   | 3.9   | 4.2   | 2.2   | -1.4  | -5.7  | -7.2  |
| 5          | -16.3 | -16.7 | -15.5 | -11.3 | -7.6  | -2.6  | -1.8  | -1.5  | -3.4  | -7.3  | -11.6 | -13.4 |
| 6          | -23.0 | -23.2 | -22.1 | -18.1 | -14.2 | -8.4  | -7.6  | -7.0  | -9.4  | -13.8 | -18.1 | -20.0 |
| 7          | -29.9 | -30.2 | -29.0 | -25.2 | -21.1 | -14.8 | -13.9 | -13.1 | -16.0 | -20.7 | -25.2 | -27.1 |
| 8          | -36.9 | -37.2 | -36.4 | -32.6 | -28.3 | -21.6 | -20.8 | -19.9 | -23.2 | -27.8 | -32.2 | -34.4 |
| 9          | -44.1 | -43.7 | -43.6 | -40.1 | -35.8 | -28.9 | -28.1 | -27.2 | -30.7 | -35.1 | -39.1 | -41.4 |
| 10         | -50.4 | -48.7 | -50.2 | -47.2 | -43.3 | -36.5 | -35.7 | -34.9 | -37.8 | -42.3 | -45.6 | -48.2 |
| 11         | -54.8 | -53.8 | -55.2 | -53.6 | -50.4 | -44.3 | -43.4 | -42.5 | -44.9 | -48.7 | -51.3 | -53.5 |
| 12         | -57.1 | -55.5 | -57.7 | -58.0 | -56.3 | -51.5 | -50.9 | -49.9 | -51.5 | -54.1 | -55.7 | -56.8 |
| 13         | -57.8 | -56.5 | -57.7 | -60.0 | -60.2 | -57.9 | -57.6 | -56.7 | -57.0 | -58.4 | -58.7 | -59.1 |
| 14         | -59.7 | -58.3 | -57.8 | -60.0 | -61.3 | -63.0 | -62.9 | -62.8 | -61.6 | -61.8 | -61.1 | -61.6 |
| 15         | -62.2 | -60.7 | -59.0 | -60.5 | -62.0 | -65.0 | -66.0 | -66.8 | -65.2 | -64.8 | -63.3 | -63.6 |
| 16         | -64.3 | -62.4 | -60.4 | -61.7 | -62.8 | -66.2 | -67.1 | -68.5 | -67.1 | -66.6 | -65.0 | -65.4 |
| 17         | -65.7 | -63.3 | -61.2 | -62.0 | -63.3 | -66.1 | -66.1 | -67.6 | -67.3 | -66.6 | -65.7 | -65.9 |
| 18         | -66.1 | --    | -61.3 | -61.3 | -63.0 | -65.0 | -63.9 | -65.2 | -66.0 | -64.9 | -65.5 | -65.6 |
| 19         | --    | --    | --    | -60.7 | -62.1 | -62.9 | -62.0 | -63.0 | -64.3 | -62.8 | -64.7 | --    |
| 20         | --    | --    | --    | --    | -60.6 | -60.6 | --    | -60.7 | -62.7 | -61.2 | --    | --    |
| 21         | --    | --    | --    | --    | --    | --    | --    | -59.5 | -61.1 | --    | --    | --    |
| 22         | --    | --    | --    | --    | --    | --    | --    | --    | -60.4 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 154                    | 140 | 155 | 149 | 153 | 150 | 153 | 186 | 178 | 181 | 168 | 186 |
| 5       | 145                    | 132 | 148 | 143 | 153 | 147 | 146 | 182 | 176 | 175 | 161 | 170 |
| 10      | 119                    | 108 | 139 | 137 | 147 | 140 | 141 | 166 | 170 | 147 | 142 | 145 |
| 15      | 76                     | 57  | 91  | 113 | 133 | 138 | 123 | 147 | 154 | 115 | 96  | 103 |
| 18      | 26                     | --  | 44  | 64  | 100 | 114 | 69  | 96  | 116 | 80  | 62  | 43  |





AVERAGE PRESSURES (Mbs.)

Elevation: 180 meters, m.s.l.

NASHVILLE, TENN.

49

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 999  | 997  | 996  | 995  | 995 | 994  | 995  | 995  | 996   | 997  | 1000 | 998  |
| 0.5      | 960  | 958  | 958  | 958  | 958 | 958  | 959  | 959  | 960   | 960  | 962  | 960  |
| 1.0      | 902  | 900  | 902  | 903  | 904 | 905  | 906  | 906  | 906   | 905  | 906  | 903  |
| 1.5      | 848  | 846  | 848  | 850  | 852 | 854  | 855  | 855  | 855   | 853  | 852  | 849  |
| 2.0      | 796  | 794  | 797  | 800  | 802 | 805  | 806  | 806  | 806   | 803  | 801  | 797  |
| 2.5      | 747  | 746  | 748  | 752  | 755 | 759  | 760  | 760  | 759   | 756  | 753  | 749  |
| 3.0      | 701  | 700  | 703  | 707  | 710 | 714  | 716  | 716  | 714   | 711  | 707  | 704  |
| 4        | 617  | 615  | 618  | 624  | 627 | 633  | 634  | 634  | 632   | 628  | 623  | 620  |
| 5        | 541  | 540  | 543  | 548  | 553 | 559  | 560  | 560  | 558   | 554  | 548  | 545  |
| 6        | 473  | 472  | 475  | 480  | 485 | 492  | 493  | 493  | 491   | 486  | 480  | 477  |
| 7        | 412  | 411  | 413  | 420  | 425 | 432  | 433  | 434  | 431   | 426  | 420  | 416  |
| 8        | 357  | 356  | 359  | 365  | 370 | 377  | 379  | 380  | 377   | 371  | 365  | 361  |
| 9        | 308  | 308  | 310  | 316  | 321 | 328  | 330  | 331  | 328   | 322  | 316  | 312  |
| 10       | 265  | 265  | 267  | 272  | 278 | 285  | 287  | 287  | 284   | 279  | 273  | 269  |
| 11       | 228  | 227  | 229  | 234  | 239 | 246  | 248  | 249  | 246   | 240  | 235  | 231  |
| 12       | 194  | 194  | 195  | 200  | 205 | 212  | 213  | 214  | 211   | 206  | 201  | 197  |
| 13       | 166  | 166  | 167  | 170  | 175 | 181  | 183  | 183  | 181   | 176  | 172  | 168  |
| 14       | 141  | 142  | 142  | 145  | 149 | 154  | 155  | 156  | 154   | 150  | 146  | 144  |
| 15       | 120  | 121  | 121  | 124  | 126 | 131  | 132  | 133  | 131   | 128  | 124  | 122  |
| 16       | 102  | 103  | 103  | 106  | 108 | 111  | 112  | 113  | 111   | 108  | 106  | 104  |
| 17       | 87   | 87   | 88   | 90   | 92  | 94   | 95   | 95   | 94    | 92   | 90   | 88   |
| 18       | 74   | --   | 75   | 76   | 78  | 80   | 81   | 81   | 80    | 78   | 76   | 75   |
| 19       | --   | --   | --   | 65   | 66  | 68   | 69   | 69   | 68    | 66   | 65   | --   |
| 20       | --   | --   | --   | --   | 56  | 58   | --   | 58   | 58    | 56   | --   | --   |
| 21       | --   | --   | --   | --   | --  | 49   | --   | 50   | 49    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 76   | 73   | 70   | 69   | 75  | 78   | 82   | 83   | 78    | 75   | 75   | 78   |
| 0.5      | 76   | 71   | 66   | 63   | 64  | 70   | 72   | 71   | 66    | 63   | 66   | 74   |
| 1.0      | 72   | 70   | 63   | 62   | 63  | 68   | 71   | 70   | 65    | 62   | 62   | 70   |
| 1.5      | 67   | 65   | 61   | 63   | 64  | 71   | 73   | 72   | 66    | 60   | 57   | 63   |
| 2.0      | 61   | 62   | 58   | 63   | 65  | 68   | 71   | 69   | 63    | 56   | 53   | 57   |
| 2.5      | 57   | 58   | 54   | 59   | 61  | 65   | 65   | 65   | 59    | 52   | 48   | 52   |
| 3        | 51   | 56   | 52   | 56   | 55  | 61   | 61   | 60   | 55    | 48   | 44   | 48   |
| 4        | 47   | 52   | 53   | 52   | 49  | 56   | 54   | 55   | 49    | 46   | 40   | 43   |
| 5        | 46   | 52   | 51   | 48   | 46  | 51   | 48   | 51   | 44    | 41   | 38   | 41   |
| 6        | 45   | 51   | 49   | 46   | 45  | 46   | 43   | 47   | 42    | 40   | 36   | 40   |
| 7        | 42   | 49   | 48   | 45   | 45  | 45   | 39   | 42   | 39    | 38   | 36   | 40   |
| 8        | 42   | 50   | 47   | 44   | 45  | 40   | 38   | 39   | 37    | 38   | 36   | 42   |
| 9        | --   | --   | --   | 41   | 50  | 42   | 40   | 39   | 37    | 35   | 30   | --   |
| 10       | --   | --   | --   | --   | --  | --   | 38   | 40   | 37    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 154 | 140 | 155 | 150 | 154 | 150 | 157 | 186 | 178 | 181 | 168 | 186 |
| 5       | 123 | 116 | 147 | 142 | 152 | 147 | 150 | 185 | 173 | 173 | 157 | 168 |
| 7       | 97  | 96  | 132 | 138 | 142 | 145 | 145 | 176 | 166 | 164 | 145 | 150 |
| 9       | --  | --  | --  | 33  | 49  | 124 | 110 | 153 | 129 | 183 | 35  | --  |

AVERAGE TEMPERATURES °C.

Oakland, Calif.

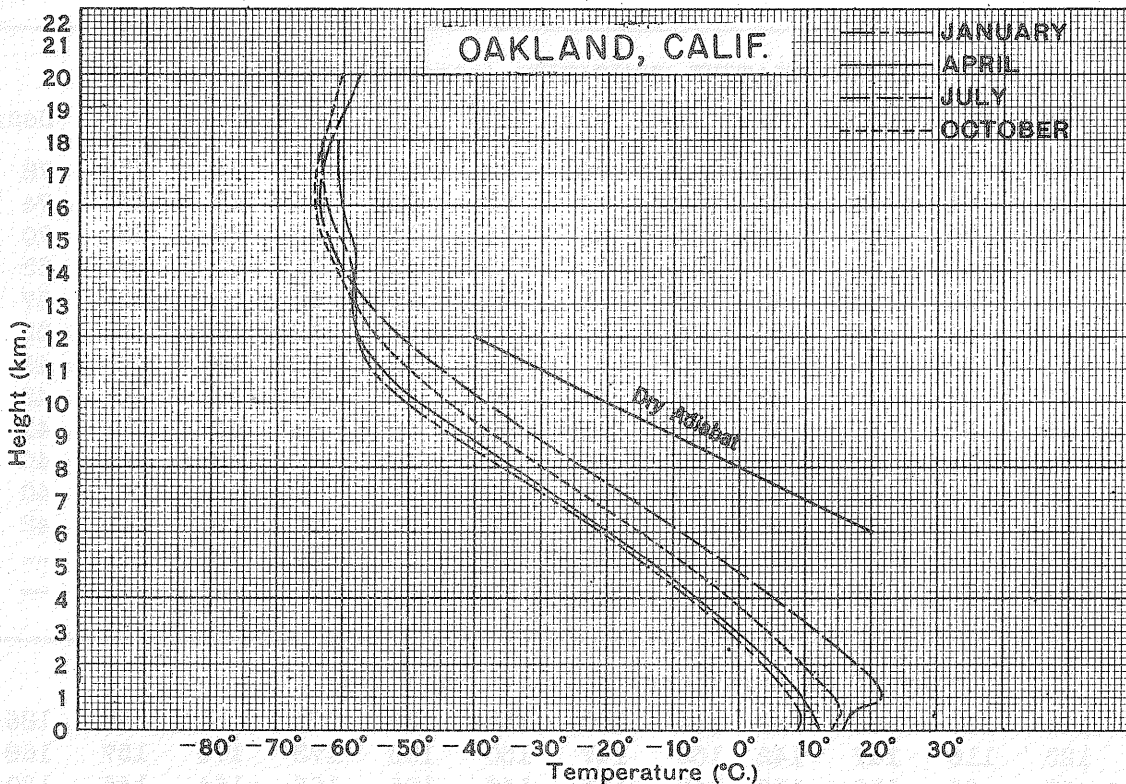
Elevation: 2 meters, m.s.l.

Period of Record: July 1938-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 9.0   | 10.4  | 11.7  | 12.4  | 14.3  | 14.7  | 15.7  | 15.5  | 16.2  | 14.1  | 10.8  | 9.8   |
| 0.5        | 9.5   | 9.2   | 9.9   | 10.6  | 12.5  | 14.5  | 16.8  | 15.7  | 16.9  | 15.6  | 12.6  | 10.1  |
| 1.0        | 8.0   | 6.8   | 8.3   | 9.9   | 13.2  | 16.8  | 21.8  | 20.6  | 17.9  | 14.3  | 11.3  | 8.5   |
| 1.5        | 6.0   | 4.3   | 6.1   | 7.9   | 11.5  | 15.1  | 20.7  | 19.8  | 16.2  | 12.1  | 9.5   | 6.7   |
| 2.0        | 3.8   | 1.8   | 3.6   | 5.3   | 8.9   | 12.6  | 18.0  | 17.4  | 13.4  | 9.5   | 7.4   | 4.6   |
| 2.5        | 1.1   | -0.8  | 1.0   | 2.6   | 6.1   | 9.8   | 15.0  | 14.5  | 10.4  | 6.9   | 4.9   | 2.1   |
| 3.0        | -1.5  | -3.6  | -1.9  | -0.2  | 3.3   | 6.9   | 11.9  | 11.3  | 7.5   | 4.1   | 2.2   | -0.9  |
| 4          | -7.6  | -9.4  | -7.9  | -6.3  | -2.6  | 1.0   | 5.2   | 4.8   | 1.6   | -1.8  | -3.2  | -6.7  |
| 5          | -14.2 | -16.0 | -14.5 | -12.9 | -8.7  | -5.3  | -1.7  | -2.0  | -4.8  | -8.1  | -10.0 | -13.2 |
| 6          | -21.1 | -22.8 | -21.5 | -19.8 | -15.6 | -12.0 | -8.7  | -8.9  | -11.7 | -15.2 | -16.7 | -20.1 |
| 7          | -28.4 | -30.1 | -29.0 | -27.1 | -23.0 | -19.2 | -16.0 | -16.1 | -19.0 | -22.6 | -23.9 | -27.1 |
| 8          | -36.1 | -37.6 | -36.6 | -34.4 | -30.3 | -26.6 | -23.6 | -23.5 | -26.7 | -29.9 | -31.2 | -34.7 |
| 9          | -43.7 | -45.0 | -44.2 | -41.6 | -38.0 | -34.1 | -31.2 | -31.2 | -34.4 | -37.2 | -38.8 | -42.0 |
| 10         | -50.8 | -51.2 | -51.1 | -48.4 | -45.4 | -41.4 | -38.6 | -38.7 | -41.9 | -44.1 | -46.4 | -48.6 |
| 11         | -56.0 | -55.6 | -56.7 | -54.0 | -52.2 | -48.3 | -45.6 | -45.6 | -48.3 | -50.1 | -53.2 | -53.8 |
| 12         | -58.2 | -57.2 | -59.6 | -57.7 | -57.2 | -53.9 | -51.4 | -51.1 | -53.0 | -54.9 | -58.0 | -57.2 |
| 13         | -58.1 | -57.6 | -59.6 | -58.3 | -59.3 | -57.5 | -56.0 | -56.0 | -56.1 | -58.0 | -60.5 | -58.7 |
| 14         | -58.7 | -57.8 | -59.0 | -58.3 | -59.8 | -59.5 | -60.0 | -60.1 | -58.7 | -60.7 | -62.4 | -60.1 |
| 15         | -60.5 | -59.2 | -59.6 | -58.9 | -59.9 | -60.8 | -62.8 | -62.9 | -61.2 | -63.1 | -63.5 | -62.2 |
| 16         | -62.1 | -61.1 | -61.3 | -60.1 | -60.7 | -61.8 | -63.9 | -64.5 | -62.8 | -64.6 | -64.8 | -63.5 |
| 17         | -63.5 | -62.2 | -62.3 | -60.7 | -60.9 | -61.8 | -63.4 | -64.1 | -63.1 | -64.1 | -65.2 | -64.0 |
| 18         | -63.1 | -62.7 | -61.8 | -60.8 | -60.4 | -61.1 | -61.8 | -62.5 | -62.2 | -62.9 | -64.3 | -63.9 |
| 19         | --    | --    | -61.4 | --    | -60.4 | -60.7 | -59.8 | -60.7 | -61.8 | -61.4 | -63.6 | -63.7 |
| 20         | --    | --    | --    | --    | --    | -59.5 | -57.6 | -58.9 | -60.2 | -60.1 | --    | --    |
| 21         | --    | --    | --    | --    | --    | --    | --    | -57.9 | -59.7 | --    | --    | --    |

Number of Observations

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 155 | 140 | 155 | 150 | 155 | 149 | 144 | 186 | 181 | 185 | 178 | 185 |
| 5       | 152 | 136 | 154 | 148 | 154 | 148 | 143 | 184 | 172 | 177 | 174 | 183 |
| 10      | 140 | 124 | 140 | 144 | 140 | 144 | 137 | 178 | 160 | 152 | 168 | 169 |
| 15      | 100 | 95  | 101 | 110 | 116 | 120 | 125 | 155 | 139 | 113 | 121 | 129 |
| 18      | 49  | 51  | 49  | 52  | 73  | 80  | 81  | 118 | 115 | 72  | 81  | 62  |



AVERAGE PRESSURES (Mbs.)

Elevation: 2 meters, m.s.l.

OAKLAND, CALIF.

51

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1018 | 1017 | 1017 | 1016 | 1016 | 1014 | 1014 | 1014 | 1013  | 1015 | 1019 | 1018 |
| 0.5      | 959  | 958  | 958  | 957  | 958  | 956  | 957  | 957  | 956   | 958  | 960  | 959  |
| 1.0      | 903  | 902  | 902  | 902  | 902  | 901  | 903  | 902  | 902   | 903  | 905  | 903  |
| 1.5      | 850  | 849  | 849  | 849  | 850  | 850  | 852  | 852  | 850   | 851  | 852  | 850  |
| 2.0      | 799  | 798  | 799  | 799  | 800  | 801  | 804  | 803  | 801   | 801  | 802  | 800  |
| 2.5      | 751  | 749  | 750  | 751  | 753  | 754  | 758  | 757  | 755   | 754  | 754  | 752  |
| 3.0      | 706  | 704  | 705  | 705  | 708  | 710  | 714  | 713  | 711   | 709  | 709  | 706  |
| 4        | 622  | 619  | 621  | 622  | 625  | 628  | 633  | 632  | 629   | 627  | 626  | 622  |
| 5        | 546  | 543  | 545  | 547  | 551  | 554  | 559  | 558  | 554   | 552  | 551  | 547  |
| 6        | 478  | 475  | 477  | 479  | 483  | 487  | 492  | 491  | 487   | 484  | 483  | 479  |
| 7        | 417  | 414  | 416  | 417  | 422  | 426  | 432  | 431  | 427   | 423  | 422  | 418  |
| 8        | 361  | 359  | 361  | 363  | 368  | 372  | 378  | 377  | 373   | 369  | 367  | 363  |
| 9        | 312  | 309  | 311  | 313  | 319  | 323  | 328  | 328  | 323   | 320  | 318  | 314  |
| 10       | 268  | 266  | 268  | 270  | 275  | 280  | 285  | 284  | 280   | 276  | 275  | 270  |
| 11       | 230  | 228  | 229  | 232  | 237  | 241  | 245  | 245  | 241   | 238  | 236  | 232  |
| 12       | 196  | 195  | 196  | 198  | 202  | 206  | 211  | 211  | 207   | 204  | 201  | 198  |
| 13       | 168  | 166  | 167  | 169  | 173  | 176  | 181  | 180  | 177   | 174  | 172  | 169  |
| 14       | 143  | 142  | 142  | 144  | 147  | 150  | 154  | 154  | 151   | 148  | 146  | 144  |
| 15       | 122  | 121  | 121  | 123  | 125  | 128  | 131  | 131  | 128   | 126  | 124  | 123  |
| 16       | 104  | 103  | 103  | 105  | 107  | 109  | 112  | 111  | 110   | 108  | 105  | 104  |
| 17       | 89   | 88   | 88   | 89   | 91   | 93   | 95   | 95   | 93    | 91   | 89   | 89   |
| 18       | 76   | 75   | 75   | 76   | 77   | 79   | 80   | 80   | 79    | 77   | 76   | 76   |
| 19       | --   | --   | --   | --   | 66   | 68   | 69   | 68   | 67    | 66   | 65   | 64   |
| 20       | --   | --   | --   | --   | --   | 58   | 58   | 58   | 57    | 56   | --   | --   |
| 21       | --   | --   | --   | --   | --   | --   | --   | 50   | 49    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 84   | 80   | 79   | 80   | 76  | 78   | 81   | 82   | 80    | 80   | 78   | 82   |
| 0.5      | 74   | 75   | 75   | 75   | 72  | 70   | 69   | 72   | 68    | 64   | 63   | 71   |
| 1.0      | 67   | 71   | 64   | 61   | 53  | 46   | 37   | 39   | 48    | 54   | 53   | 65   |
| 1.5      | 62   | 66   | 57   | 52   | 46  | 37   | 30   | 24   | 41    | 48   | 47   | 58   |
| 2.0      | 56   | 62   | 53   | 47   | 43  | 33   | 27   | 25   | 37    | 44   | 42   | 54   |
| 2.5      | 53   | 58   | 50   | 43   | 39  | 30   | 25   | 23   | 34    | 40   | 38   | 50   |
| 3.0      | 50   | 55   | 47   | 41   | 38  | 27   | 24   | 23   | 32    | 37   | 36   | 47   |
| 4.       | 47   | 51   | 46   | 39   | 36  | 25   | 24   | 22   | 32    | 34   | 34   | 45   |
| 5        | 46   | 50   | 45   | 39   | 36  | 25   | 25   | 25   | 30    | 33   | 34   | 44   |
| 6        | 45   | 49   | 44   | 38   | 36  | 26   | 24   | 24   | 30    | 37   | 34   | 43   |
| 7        | 43   | 47   | 44   | 38   | 36  | 27   | 23   | 23   | 30    | 37   | 35   | 43   |
| 8        | 42   | 47   | 41   | 38   | 35  | 27   | 23   | 22   | 30    | 37   | 34   | 43   |
| 9        | --   | --   | --   | 32   | 34  | 26   | 23   | 21   | 29    | 35   | 31   | 37   |
| 10       | --   | --   | --   | --   | --  | 23   | 22   | 20   | 23    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 155 | 140 | 155 | 150 | 155 | 149 | 144 | 186 | 180 | 185 | 178 | 185 |
| 5       | 149 | 133 | 146 | 145 | 149 | 146 | 141 | 155 | 151 | 169 | 164 | 181 |
| 7       | 143 | 120 | 143 | 142 | 142 | 126 | 138 | 155 | 147 | 144 | 166 | 171 |
| 9       | --  | --  | --  | 47  | 79  | 107 | 102 | 144 | 131 | 107 | 65  | 42  |

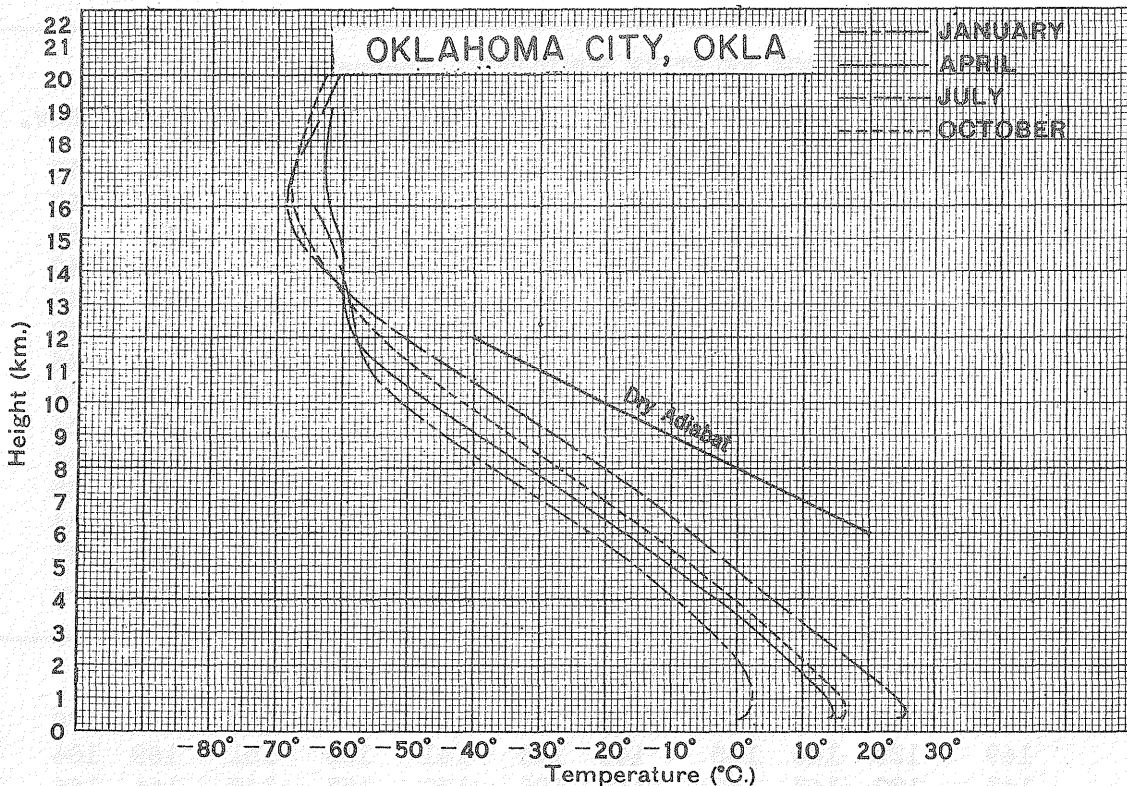
AVERAGE TEMPERATURES °C

Oklahoma City, Okla.  
Elevation: 391 meters, m.s.l.

Period of Record: July 1938-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 0.5   | 2.9   | 7.1   | 13.9  | 17.8  | 22.1  | 24.4  | 24.4  | 20.4  | 15.0  | 7.0   | 3.4   |
| 0.5        | 1.5   | 3.6   | 8.0   | 14.6  | 18.3  | 22.6  | 25.4  | 25.3  | 21.3  | 16.5  | 8.2   | 4.9   |
| 1.0        | 2.2   | 3.5   | 7.3   | 13.8  | 17.6  | 21.4  | 24.5  | 24.5  | 20.7  | 16.0  | 8.1   | 3.4   |
| 1.5        | 2.0   | 2.9   | 5.7   | 11.2  | 15.2  | 18.9  | 21.4  | 21.7  | 18.1  | 13.6  | 7.0   | 5.1   |
| 2.0        | 0.8   | 1.0   | 3.8   | 8.7   | 12.9  | 16.2  | 18.4  | 18.5  | 15.4  | 11.0  | 5.3   | 3.9   |
| 2.5        | -1.4  | -1.1  | 1.3   | 6.3   | 10.1  | 13.5  | 15.1  | 15.4  | 12.4  | 8.2   | 3.4   | 1.9   |
| 3.0        | -3.7  | -3.7  | -1.7  | 3.3   | 7.0   | 10.5  | 11.9  | 12.2  | 9.4   | 5.2   | 1.0   | -0.5  |
| 4          | -9.2  | -9.4  | -8.1  | -3.0  | 0.4   | 4.2   | 5.4   | 5.7   | 3.5   | -0.4  | -4.4  | -6.2  |
| 5          | -15.4 | -15.7 | -14.7 | -10.1 | -6.2  | -2.4  | -0.9  | -0.6  | -2.4  | -6.5  | -10.5 | -12.5 |
| 6          | -22.2 | -23.0 | -21.7 | -16.9 | -13.0 | -8.7  | -7.0  | -6.4  | -8.4  | -13.2 | -17.2 | -19.6 |
| 7          | -29.7 | -30.2 | -28.7 | -24.3 | -20.0 | -15.1 | -13.3 | -12.6 | -15.1 | -20.1 | -24.4 | -26.9 |
| 8          | -37.4 | -37.5 | -36.1 | -32.0 | -27.3 | -22.1 | -20.4 | -19.6 | -22.5 | -27.2 | -31.7 | -34.2 |
| 9          | -44.5 | -44.8 | -43.5 | -39.6 | -35.0 | -29.5 | -27.8 | -26.8 | -30.0 | -34.6 | -38.8 | -41.3 |
| 10         | -50.9 | -50.3 | -50.4 | -47.0 | -42.8 | -37.1 | -35.3 | -34.4 | -37.4 | -41.9 | -45.9 | -48.0 |
| 11         | -55.6 | -54.6 | -56.0 | -53.5 | -50.3 | -44.5 | -43.0 | -41.9 | -44.6 | -48.6 | -52.0 | -53.7 |
| 12         | -58.0 | -55.5 | -58.4 | -58.2 | -57.0 | -51.7 | -50.3 | -49.3 | -51.2 | -54.3 | -56.6 | -57.2 |
| 13         | -58.7 | -56.6 | -58.6 | -59.9 | -61.0 | -57.7 | -56.9 | -56.7 | -56.9 | -58.6 | -59.6 | -58.8 |
| 14         | -60.2 | -57.8 | -59.3 | -60.0 | -61.6 | -62.1 | -62.8 | -62.7 | -61.8 | -62.4 | -61.7 | -60.6 |
| 15         | -62.4 | -60.2 | -60.9 | -60.6 | -62.0 | -63.7 | -66.9 | -66.9 | -66.5 | -65.7 | -63.9 | -63.1 |
| 16         | -64.6 | -62.2 | -62.5 | -62.1 | -62.8 | -66.6 | -68.0 | -70.2 | -68.5 | -67.6 | -65.4 | -64.5 |
| 17         | --    | -62.8 | -63.0 | -62.9 | -63.3 | -67.2 | -67.8 | -68.7 | -68.9 | -67.7 | -66.9 | -65.0 |
| 18         | --    | --    | -62.5 | -62.5 | -62.9 | -65.9 | -65.4 | -65.7 | -67.3 | -66.4 | -66.5 | --    |
| 19         | --    | --    | --    | -61.8 | -62.0 | -63.4 | -63.8 | -63.3 | -64.8 | -64.3 | -65.6 | --    |
| 20         | --    | --    | --    | --    | --    | -61.3 | -60.6 | -61.0 | -62.7 | -62.5 | --    | --    |
| 21         | --    | --    | --    | --    | --    | --    | --    | -60.2 | -61.0 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 151                    | 134 | 152 | 148 | 153 | 149 | 148 | 185 | 180 | 184 | 175 | 181 |
| 5       | 145                    | 131 | 149 | 141 | 152 | 143 | 146 | 182 | 168 | 169 | 167 | 172 |
| 10      | 124                    | 105 | 128 | 129 | 145 | 138 | 139 | 163 | 155 | 157 | 154 | 145 |
| 15      | 65                     | 53  | 79  | 95  | 121 | 125 | 119 | 137 | 132 | 141 | 104 | 92  |
| 18      | --                     | --  | 37  | 38  | 71  | 78  | 63  | 97  | 106 | 106 | 65  | --  |



Elevation: 391 meters, m.s.l.

AVERAGE PRESSURES (Mbs.)

OKLAHOMA CITY, OKLA.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 974  | 971  | 970  | 968  | 968 | 968  | 970  | 969  | 971   | 971  | 974  | 973  |
| 0.5      | 961  | 958  | 957  | 955  | 955 | 956  | 958  | 957  | 958   | 959  | 961  | 959  |
| 1.0      | 904  | 901  | 901  | 901  | 901 | 902  | 905  | 904  | 905   | 904  | 905  | 903  |
| 1.5      | 849  | 847  | 848  | 849  | 850 | 852  | 855  | 854  | 854   | 853  | 852  | 849  |
| 2.0      | 798  | 796  | 797  | 799  | 801 | 803  | 806  | 806  | 805   | 803  | 801  | 798  |
| 2.5      | 750  | 748  | 749  | 752  | 754 | 757  | 760  | 760  | 759   | 756  | 754  | 751  |
| 3.0      | 704  | 702  | 704  | 707  | 710 | 713  | 716  | 716  | 715   | 711  | 708  | 705  |
| 4        | 620  | 618  | 620  | 624  | 628 | 632  | 635  | 635  | 633   | 629  | 625  | 622  |
| 5        | 544  | 542  | 544  | 549  | 554 | 558  | 562  | 561  | 559   | 554  | 550  | 546  |
| 6        | 475  | 474  | 476  | 482  | 486 | 492  | 495  | 495  | 492   | 487  | 482  | 478  |
| 7        | 414  | 413  | 415  | 421  | 426 | 431  | 435  | 435  | 432   | 426  | 421  | 417  |
| 8        | 359  | 358  | 360  | 366  | 372 | 377  | 380  | 381  | 378   | 372  | 366  | 363  |
| 9        | 310  | 309  | 311  | 317  | 322 | 328  | 331  | 332  | 329   | 323  | 317  | 314  |
| 10       | 267  | 265  | 268  | 273  | 279 | 285  | 288  | 288  | 285   | 279  | 274  | 270  |
| 11       | 228  | 227  | 229  | 235  | 240 | 246  | 249  | 249  | 246   | 240  | 235  | 232  |
| 12       | 195  | 194  | 195  | 200  | 205 | 211  | 214  | 215  | 212   | 206  | 201  | 198  |
| 13       | 167  | 166  | 167  | 171  | 175 | 181  | 183  | 184  | 181   | 176  | 172  | 169  |
| 14       | 142  | 142  | 142  | 145  | 149 | 154  | 156  | 157  | 154   | 150  | 146  | 144  |
| 15       | 121  | 121  | 121  | 124  | 127 | 131  | 133  | 133  | 131   | 127  | 124  | 122  |
| 16       | 103  | 103  | 103  | 106  | 108 | 111  | 113  | 113  | 111   | 108  | 106  | 104  |
| 17       | --   | 88   | 88   | 90   | 92  | 94   | 95   | 95   | 94    | 92   | 90   | 89   |
| 18       | --   | --   | 74   | 77   | 78  | 80   | 81   | 81   | 80    | 79   | 76   | --   |
| 19       | --   | --   | --   | 65   | 66  | 68   | 69   | 69   | 68    | 66   | 65   | --   |
| 20       | --   | --   | --   | --   | --  | 58   | 58   | 58   | 57    | 56   | --   | --   |
| 21       | --   | --   | --   | --   | --  | --   | --   | 50   | 49    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 75   | 72   | 65   | 70   | 77  | 80   | 72   | 71   | 70    | 70   | 71   | 77   |
| 0.5      | 73   | 70   | 63   | 66   | 72  | 74   | 66   | 66   | 65    | 66   | 66   | 72   |
| 1.0      | 64   | 63   | 57   | 57   | 64  | 67   | 58   | 59   | 59    | 59   | 59   | 60   |
| 1.5      | 58   | 56   | 52   | 56   | 61  | 65   | 60   | 60   | 58    | 57   | 55   | 53   |
| 2.0      | 53   | 53   | 48   | 54   | 56  | 60   | 59   | 61   | 58    | 54   | 52   | 46   |
| 2.5      | 51   | 49   | 46   | 50   | 52  | 56   | 56   | 61   | 57    | 50   | 47   | 43   |
| 3.0      | 49   | 48   | 45   | 48   | 50  | 54   | 53   | 60   | 56    | 49   | 43   | 41   |
| 4        | 45   | 45   | 44   | 45   | 46  | 51   | 50   | 60   | 53    | 44   | 39   | 39   |
| 5        | 43   | 43   | 42   | 44   | 43  | 48   | 47   | 54   | 48    | 41   | 35   | 37   |
| 6        | 43   | 43   | 40   | 42   | 39  | 45   | 41   | 47   | 43    | 39   | 34   | 35   |
| 7        | 41   | 43   | 40   | 41   | 38  | 40   | 38   | 42   | 40    | 37   | 34   | 35   |
| 8        | 39   | 44   | 34   | 43   | 40  | 38   | 37   | 43   | 39    | 36   | 33   | 33   |
| 9        | --   | --   | --   | 48   | 40  | 39   | 36   | 41   | 40    | 36   | 37   | --   |
| 10       | --   | --   | --   | --   | --  | 43   | 38   | 42   | 41    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 151 | 134 | 152 | 148 | 153 | 149 | 148 | 185 | 180 | 184 | 177 | 185 |
| 5       | 142 | 128 | 148 | 137 | 150 | 142 | 145 | 180 | 165 | 167 | 161 | 170 |
| 7       | 127 | 103 | 138 | 134 | 148 | 141 | 144 | 172 | 160 | 159 | 149 | 154 |
| 9       | --  | --  | --  | 27  | 68  | 123 | 132 | 142 | 123 | 74  | 41  | --  |

AVERAGE TEMPERATURES °C.

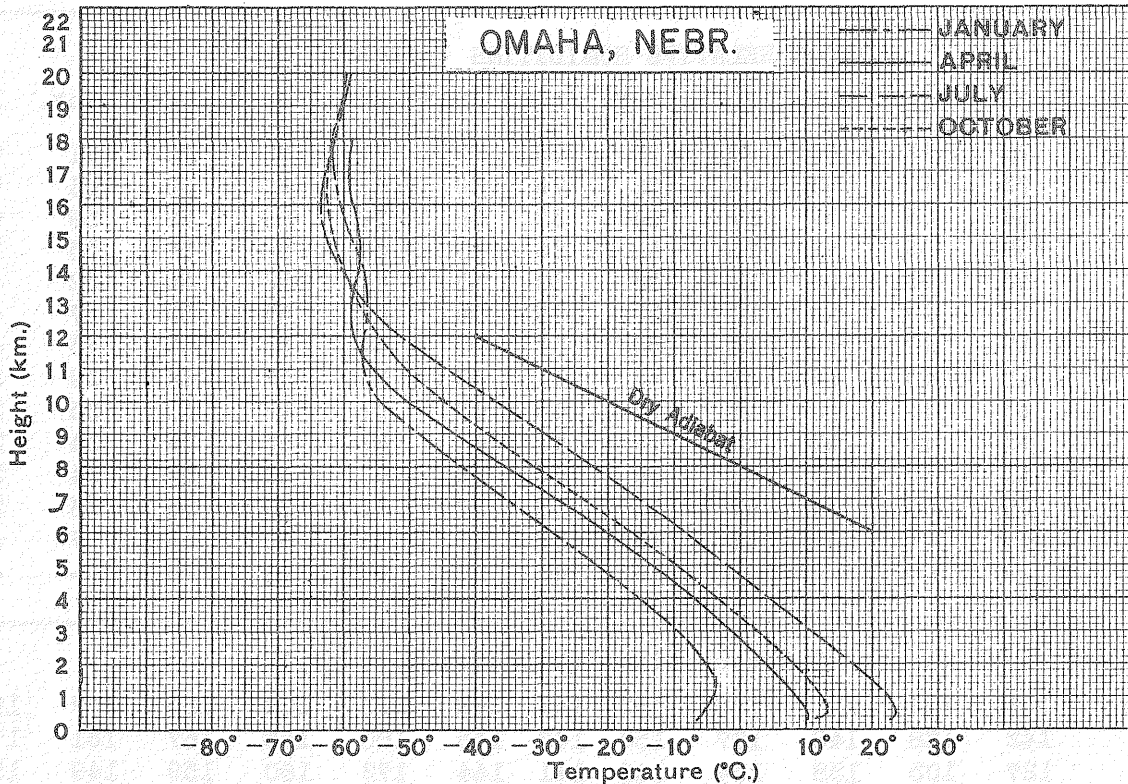
Omaha, Nebr.  
Elevation: 308 meters, m.s.l.

Period of Record: July 1938-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -6.6  | -4.6  | 1.2   | 10.1  | 16.9  | 20.6  | 22.9  | 21.9  | 17.0  | 11.3  | 2.1   | -2.4  |
| 0.5        | -3.6  | -4.5  | 1.3   | 10.1  | 15.9  | 20.8  | 23.8  | 22.6  | 18.1  | 13.1  | 3.4   | -2.1  |
| 1.0        | -4.1  | -4.5  | -0.1  | 8.4   | 13.7  | 18.9  | 22.6  | 21.5  | 17.1  | 12.3  | 3.0   | -0.7  |
| 1.5        | -3.8  | -4.1  | -1.4  | 6.3   | 11.0  | 16.3  | 20.0  | 19.2  | 14.8  | 10.1  | 2.0   | -0.8  |
| 2.0        | -5.0  | -5.6  | -2.9  | 4.0   | 8.3   | 13.6  | 17.1  | 16.4  | 12.2  | 8.0   | 0.4   | -2.1  |
| 2.5        | -7.1  | -7.5  | -5.0  | 1.3   | 5.5   | 10.9  | 14.0  | 13.5  | 9.6   | 5.4   | -1.7  | -4.2  |
| 3.0        | -9.6  | -10.0 | -7.6  | -1.4  | 2.6   | 8.1   | 10.8  | 9.9   | 6.8   | 2.6   | -4.1  | -6.4  |
| 4          | -15.0 | -15.3 | -13.5 | -7.2  | -3.5  | 2.4   | 4.1   | 3.7   | 0.9   | -3.6  | -9.7  | -11.8 |
| 5          | -21.3 | -21.4 | -19.8 | -13.6 | -9.7  | -3.9  | -2.4  | -2.7  | -5.1  | -9.8  | -15.8 | -18.0 |
| 6          | -28.3 | -28.2 | -26.5 | -20.6 | -16.4 | -10.3 | -8.6  | -8.8  | -11.3 | -16.7 | -22.6 | -24.9 |
| 7          | -35.5 | -35.8 | -34.0 | -27.9 | -23.6 | -17.0 | -15.2 | -15.2 | -18.1 | -23.8 | -29.8 | -32.3 |
| 8          | -42.6 | -43.1 | -41.5 | -36.0 | -31.1 | -24.3 | -22.2 | -22.2 | -25.3 | -31.2 | -37.0 | -39.6 |
| 9          | -48.8 | -49.4 | -48.4 | -43.3 | -38.6 | -31.8 | -29.4 | -29.5 | -32.9 | -38.2 | -43.9 | -46.2 |
| 10         | -54.5 | -54.0 | -53.6 | -50.4 | -45.7 | -39.0 | -37.0 | -37.0 | -40.3 | -45.0 | -50.0 | -51.8 |
| 11         | -57.1 | -55.0 | -56.5 | -55.3 | -52.0 | -45.7 | -44.5 | -44.3 | -47.2 | -50.7 | -54.5 | -54.1 |
| 12         | -57.0 | -53.9 | -56.8 | -58.7 | -56.8 | -52.6 | -51.4 | -51.0 | -53.4 | -54.9 | -56.8 | -55.5 |
| 13         | -56.4 | -53.5 | -56.3 | -59.1 | -58.5 | -57.3 | -56.9 | -56.8 | -57.0 | -57.9 | -58.8 | -56.1 |
| 14         | -57.1 | -54.2 | -56.4 | -57.9 | -58.3 | -60.8 | -60.4 | -61.1 | -60.0 | -60.0 | -59.3 | -57.0 |
| 15         | -58.9 | -55.5 | -57.4 | -57.8 | -58.7 | -61.0 | -62.7 | -63.9 | -62.5 | -61.6 | -60.8 | -58.8 |
| 16         | -60.5 | -57.4 | -59.3 | -58.6 | -59.2 | -62.2 | -63.9 | -64.8 | -63.6 | -62.4 | -61.6 | -59.8 |
| 17         | -61.7 | -58.5 | -59.2 | -59.3 | -59.7 | -62.4 | -62.9 | -63.4 | -63.7 | -62.5 | -62.0 | -60.7 |
| 18         | -61.9 | -59.4 | -59.9 | -58.9 | -59.4 | -61.4 | -61.6 | -61.1 | -62.6 | -61.9 | -61.6 | -60.9 |
| 19         | --    | --    | --    | --    | -58.8 | -59.3 | -60.1 | -59.6 | -60.9 | -60.3 | --    | -60.8 |
| 20         | --    | --    | --    | --    | -58.6 | -58.8 | -58.9 | -58.0 | -59.1 | -59.9 | --    | --    |

Number of Observations

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 155 | 140 | 154 | 135 | 155 | 149 | 151 | 186 | 190 | 185 | 178 | 185 |
| 5       | 151 | 135 | 149 | 130 | 153 | 145 | 145 | 179 | 175 | 177 | 171 | 181 |
| 10      | 139 | 124 | 144 | 120 | 144 | 137 | 139 | 172 | 159 | 161 | 157 | 143 |
| 15      | 91  | 100 | 112 | 92  | 112 | 105 | 124 | 147 | 138 | 126 | 112 | 112 |
| 18      | 27  | 30  | 35  | 35  | 65  | 80  | 82  | 101 | 100 | 75  | 39  | 45  |



AVERAGE PRESSURES (Mbs.)

Elevation: 308 meters, m.s.l.

OMAHA, NEBR.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 984  | 983  | 981  | 979  | 978 | 978  | 980  | 979  | 981   | 981  | 984  | 983  |
| 0.5      | 960  | 958  | 957  | 956  | 956 | 955  | 958  | 957  | 959   | 958  | 960  | 959  |
| 1.0      | 900  | 899  | 899  | 900  | 901 | 902  | 905  | 904  | 904   | 903  | 902  | 900  |
| 1.5      | 845  | 844  | 845  | 847  | 849 | 851  | 854  | 853  | 853   | 850  | 848  | 846  |
| 2.0      | 793  | 792  | 793  | 797  | 799 | 802  | 805  | 804  | 803   | 800  | 797  | 794  |
| 2.5      | 744  | 743  | 744  | 749  | 752 | 755  | 759  | 758  | 757   | 753  | 749  | 745  |
| 3.0      | 697  | 696  | 698  | 703  | 707 | 711  | 715  | 715  | 712   | 708  | 703  | 699  |
| 4        | 612  | 611  | 613  | 620  | 624 | 630  | 634  | 633  | 630   | 625  | 619  | 615  |
| 5        | 536  | 534  | 537  | 545  | 549 | 556  | 560  | 559  | 556   | 550  | 543  | 539  |
| 6        | 467  | 466  | 469  | 477  | 482 | 489  | 493  | 492  | 489   | 482  | 475  | 470  |
| 7        | 405  | 404  | 407  | 416  | 421 | 429  | 432  | 432  | 428   | 422  | 413  | 409  |
| 8        | 350  | 349  | 352  | 361  | 366 | 375  | 378  | 378  | 374   | 367  | 359  | 354  |
| 9        | 301  | 300  | 303  | 312  | 317 | 326  | 329  | 329  | 325   | 318  | 310  | 305  |
| 10       | 258  | 258  | 260  | 268  | 274 | 282  | 284  | 285  | 282   | 274  | 266  | 262  |
| 11       | 221  | 221  | 222  | 230  | 235 | 244  | 247  | 246  | 243   | 236  | 229  | 225  |
| 12       | 189  | 189  | 190  | 196  | 201 | 209  | 212  | 212  | 208   | 202  | 195  | 192  |
| 13       | 161  | 161  | 162  | 167  | 172 | 179  | 182  | 181  | 178   | 172  | 167  | 164  |
| 14       | 138  | 137  | 139  | 143  | 146 | 152  | 155  | 155  | 152   | 147  | 142  | 140  |
| 15       | 117  | 117  | 118  | 122  | 125 | 130  | 132  | 132  | 129   | 125  | 121  | 119  |
| 16       | 100  | 101  | 101  | 104  | 107 | 111  | 112  | 112  | 110   | 106  | 103  | 102  |
| 17       | 85   | 86   | 87   | 89   | 91  | 94   | 95   | 95   | 94    | 91   | 88   | 87   |
| 18       | 73   | 74   | 74   | 76   | 77  | 80   | 81   | 81   | 79    | 78   | 75   | 74   |
| 19       | --   | --   | --   | --   | 66  | 68   | 69   | 69   | 68    | 66   | --   | 63   |
| 20       | --   | --   | --   | --   | 57  | 58   | 59   | 58   | 58    | 55   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 81   | 81   | 77   | 67   | 70  | 78   | 75   | 77   | 75    | 71   | 75   | 79   |
| 0.5      | 77   | 75   | 72   | 63   | 63  | 71   | 65   | 68   | 66    | 61   | 69   | 74   |
| 1.0      | 67   | 67   | 70   | 62   | 60  | 67   | 58   | 61   | 59    | 55   | 62   | 62   |
| 1.5      | 61   | 61   | 65   | 60   | 60  | 66   | 56   | 59   | 56    | 54   | 56   | 57   |
| 2.0      | 57   | 59   | 61   | 57   | 58  | 63   | 53   | 56   | 55    | 51   | 51   | 55   |
| 2.5      | 56   | 58   | 58   | 57   | 57  | 61   | 51   | 55   | 53    | 49   | 49   | 54   |
| 3.0      | 55   | 57   | 59   | 56   | 58  | 57   | 50   | 54   | 50    | 48   | 48   | 53   |
| 4        | 56   | 56   | 57   | 53   | 53  | 52   | 52   | 54   | 48    | 47   | 44   | 53   |
| 5        | 54   | 55   | 53   | 50   | 49  | 48   | 50   | 51   | 45    | 44   | 42   | 52   |
| 6        | 51   | 56   | 54   | 47   | 45  | 44   | 44   | 45   | 41    | 42   | 40   | 49   |
| 7        | 46   | 54   | 49   | 45   | 43  | 43   | 40   | 41   | 39    | 41   | 39   | 48   |
| 8        | --   | --   | --   | 40   | 44  | 41   | 37   | 39   | 38    | 39   | 37   | 50   |
| 9        | --   | --   | --   | --   | 44  | 43   | 38   | 38   | 40    | 42   | --   | --   |
| 10       | --   | --   | --   | --   | --  | 48   | 40   | 40   | 45    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 155 | 140 | 155 | 135 | 155 | 149 | 151 | 186 | 179 | 185 | 178 | 185 |
| 5       | 135 | 127 | 136 | 125 | 148 | 141 | 139 | 177 | 170 | 171 | 161 | 170 |
| 7       | 68  | 63  | 93  | 93  | 139 | 125 | 133 | 172 | 159 | 161 | 133 | 130 |
| 9       | --  | --  | --  | --  | 36  | 85  | 118 | 147 | 104 | 48  | --  | --  |

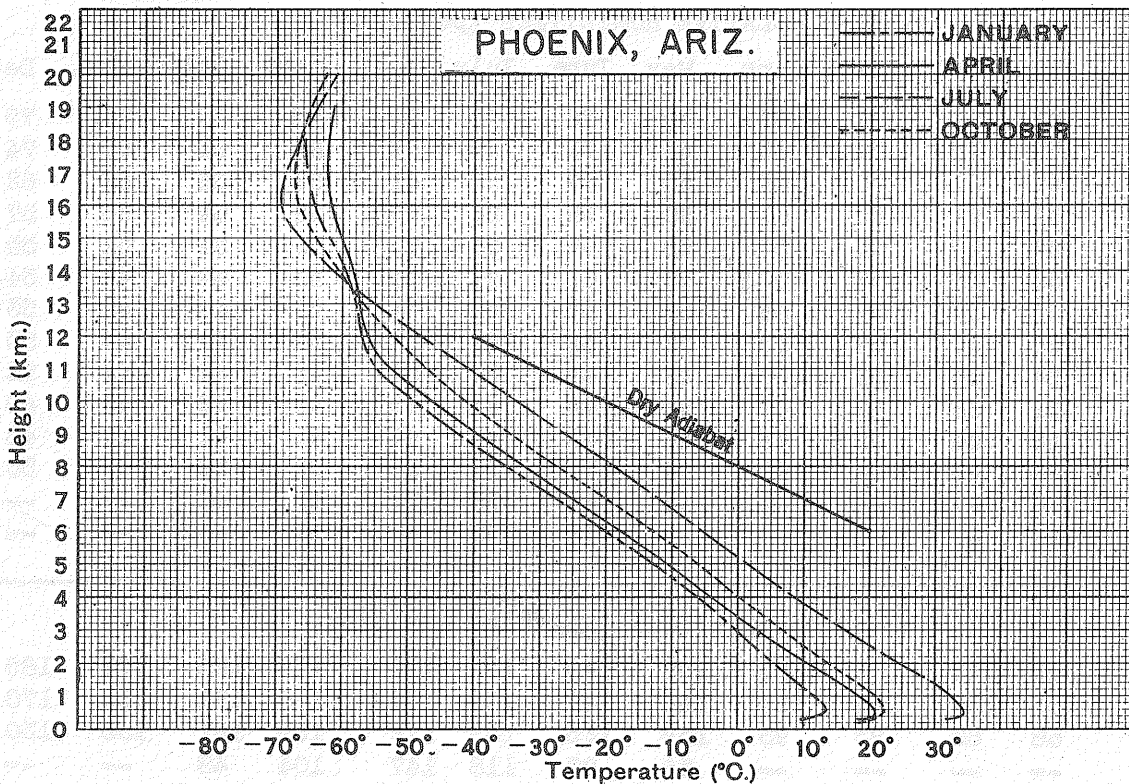
AVERAGE TEMPERATURES °C

Phoenix, Ariz.  
Elevation: 339 meters, m.s.l.

Period of Record: July 1939-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 9.6   | 11.5  | 14.4  | 18.1  | 23.6  | 28.0  | 31.7  | 29.7  | 25.9  | 18.4  | 12.6  | 9.9   |
| 0.5        | 13.3  | 14.8  | 18.0  | 21.0  | 27.1  | 31.4  | 34.4  | 31.7  | 29.2  | 22.5  | 17.5  | 13.9  |
| 1.0        | 11.7  | 12.5  | 15.5  | 18.4  | 24.9  | 29.2  | 32.5  | 29.8  | 27.6  | 21.0  | 16.8  | 13.0  |
| 1.5        | 8.6   | 8.9   | 11.7  | 14.5  | 21.1  | 25.3  | 28.9  | 26.3  | 23.9  | 17.3  | 13.5  | 10.0  |
| 2.0        | 5.4   | 5.3   | 7.7   | 10.3  | 16.8  | 21.1  | 24.7  | 22.2  | 20.2  | 13.5  | 10.0  | 6.9   |
| 2.5        | 2.6   | 2.1   | 4.0   | 6.3   | 12.8  | 16.9  | 20.5  | 18.2  | 15.8  | 9.8   | 7.0   | 4.0   |
| 3          | -0.2  | -0.8  | 0.7   | 2.6   | 8.9   | 13.0  | 16.4  | 14.4  | 11.8  | 6.5   | 4.0   | 1.4   |
| 4          | -6.0  | -6.5  | -5.3  | -4.0  | 1.8   | 5.8   | 8.5   | 7.2   | 4.7   | -0.1  | -1.6  | -4.6  |
| 5          | -12.6 | -13.0 | -10.6 | -4.9  | -1.1  | 1.1   | 0.5   | -1.3  | -6.3  | -8.2  | -11.0 |       |
| 6          | -19.8 | -19.9 | -18.9 | -17.8 | -11.8 | -8.2  | -5.8  | -5.6  | -7.4  | -13.0 | -15.0 | -18.3 |
| 7          | -27.3 | -27.2 | -26.4 | -25.2 | -19.3 | -15.4 | -12.0 | -11.7 | -14.1 | -20.2 | -22.4 | -25.6 |
| 8          | -35.1 | -34.6 | -34.0 | -32.7 | -27.2 | -23.0 | -18.8 | -19.5 | -21.4 | -27.5 | -29.9 | -33.0 |
| 9          | -42.5 | -42.0 | -41.4 | -39.9 | -35.0 | -30.9 | -26.2 | -25.9 | -28.9 | -34.8 | -37.4 | -40.3 |
| 10         | -49.4 | -48.3 | -48.2 | -46.6 | -42.7 | -38.6 | -33.7 | -33.5 | -36.3 | -41.4 | -44.8 | -46.9 |
| 11         | -55.0 | -53.5 | -54.0 | -52.4 | -50.0 | -45.7 | -41.1 | -41.2 | -43.3 | -47.4 | -51.3 | -52.2 |
| 12         | -57.1 | -56.4 | -57.9 | -56.1 | -55.8 | -51.9 | -48.4 | -48.9 | -49.9 | -52.6 | -56.4 | -56.1 |
| 13         | -58.0 | -58.1 | -58.6 | -57.4 | -59.7 | -56.3 | -55.4 | -56.4 | -55.8 | -56.8 | -60.0 | -58.6 |
| 14         | -59.5 | -59.3 | -59.0 | -58.4 | -60.8 | -59.8 | -61.6 | -63.0 | -61.2 | -60.5 | -62.6 | -61.3 |
| 15         | -62.0 | -61.3 | -60.9 | -60.1 | -61.2 | -62.6 | -66.6 | -67.6 | -65.8 | -64.0 | -64.7 | -63.9 |
| 16         | -64.0 | -63.2 | -63.0 | -61.6 | -62.0 | -64.8 | -69.4 | -69.3 | -68.7 | -66.7 | -66.7 | -66.6 |
| 17         | -65.6 | -64.2 | -64.0 | -62.5 | -62.7 | -65.7 | -69.8 | -68.3 | -68.6 | -67.3 | -67.3 | -67.1 |
| 18         | -65.7 | -65.0 | -63.6 | -62.0 | -62.3 | -64.3 | -66.4 | -65.8 | -66.8 | -66.2 | -67.1 | -66.7 |
| 19         | --    | --    | -63.0 | -61.3 | -61.2 | -61.8 | -63.3 | -63.2 | -64.9 | -64.4 | -65.3 | -65.2 |
| 20         | --    | --    | --    | --    | --    | --    | -61.0 | -60.7 | -62.5 | -62.4 | --    | --    |
| 21         | --    | --    | --    | --    | --    | --    | --    | --    | -60.8 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124                    | 113 | 124 | 118 | 123 | 120 | 117 | 150 | 149 | 152 | 148 | 153 |
| 5       | 123                    | 107 | 121 | 112 | 119 | 118 | 116 | 147 | 145 | 147 | 141 | 145 |
| 10      | 111                    | 95  | 113 | 110 | 104 | 117 | 113 | 139 | 137 | 132 | 125 | 134 |
| 15      | 83                     | 65  | 93  | 83  | 90  | 105 | 89  | 112 | 119 | 104 | 104 | 108 |
| 18      | 41                     | 31  | 55  | 54  | 64  | 73  | 74  | 78  | 93  | 77  | 56  | 59  |





AVERAGE PRESSURES (Mbs.)

Elevation: 339 meters, m.s.l.

PHOENIX, ARIZ.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 978  | 976  | 973  | 971  | 969 | 968  | 970  | 970  | 970   | 973  | 976  | 977  |
| 0.5      | 959  | 958  | 955  | 953  | 952 | 951  | 953  | 953  | 953   | 955  | 958  | 959  |
| 1.0      | 904  | 902  | 901  | 899  | 899 | 899  | 901  | 901  | 900   | 902  | 903  | 903  |
| 1.5      | 851  | 850  | 849  | 848  | 849 | 849  | 852  | 852  | 851   | 851  | 852  | 851  |
| 2.0      | 801  | 799  | 799  | 799  | 801 | 802  | 805  | 804  | 803   | 802  | 802  | 801  |
| 2.5      | 753  | 752  | 752  | 752  | 754 | 756  | 760  | 759  | 757   | 755  | 755  | 753  |
| 3.0      | 707  | 706  | 706  | 707  | 710 | 713  | 717  | 716  | 714   | 711  | 710  | 708  |
| 4        | 624  | 622  | 623  | 624  | 629 | 632  | 637  | 635  | 632   | 628  | 627  | 625  |
| 5        | 548  | 547  | 548  | 549  | 555 | 559  | 563  | 562  | 559   | 554  | 553  | 549  |
| 6        | 480  | 479  | 480  | 481  | 488 | 492  | 497  | 495  | 492   | 487  | 485  | 481  |
| 7        | 419  | 418  | 419  | 420  | 428 | 432  | 437  | 436  | 432   | 426  | 424  | 420  |
| 8        | 363  | 363  | 364  | 365  | 373 | 377  | 382  | 382  | 378   | 372  | 369  | 365  |
| 9        | 314  | 314  | 315  | 316  | 324 | 328  | 333  | 333  | 329   | 322  | 320  | 316  |
| 10       | 271  | 270  | 271  | 273  | 280 | 285  | 290  | 290  | 286   | 279  | 277  | 273  |
| 11       | 232  | 232  | 233  | 234  | 241 | 246  | 251  | 251  | 247   | 241  | 238  | 234  |
| 12       | 198  | 198  | 199  | 200  | 206 | 211  | 216  | 216  | 213   | 206  | 203  | 200  |
| 13       | 169  | 169  | 169  | 171  | 176 | 180  | 186  | 185  | 182   | 177  | 174  | 171  |
| 14       | 144  | 144  | 145  | 146  | 150 | 154  | 158  | 158  | 155   | 151  | 148  | 146  |
| 15       | 123  | 123  | 123  | 124  | 128 | 131  | 135  | 134  | 132   | 128  | 125  | 124  |
| 16       | 105  | 105  | 105  | 106  | 109 | 111  | 114  | 113  | 112   | 109  | 106  | 106  |
| 17       | 89   | 89   | 89   | 90   | 93  | 94   | 96   | 96   | 95    | 92   | 90   | 90   |
| 18       | 76   | 76   | 76   | 77   | 79  | 80   | 81   | 81   | 80    | 78   | 77   | 76   |
| 19       | --   | --   | 64   | 66   | 67  | 68   | 69   | 69   | 68    | 66   | 65   | 63   |
| 20       | --   | --   | --   | --   | --  | --   | 59   | 58   | 58    | 57   | --   | --   |
| 21       | --   | --   | --   | --   | --  | --   | --   | --   | 49    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 67   | 60   | 51   | 47   | 33  | 27   | 36   | 48   | 52    | 54   | 58   | 71   |
| 0.5      | 57   | 53   | 44   | 40   | 28  | 22   | 29   | 40   | 40    | 42   | 45   | 57   |
| 1.0      | 50   | 48   | 39   | 36   | 25  | 20   | 26   | 37   | 34    | 36   | 37   | 48   |
| 1.5      | 49   | 48   | 39   | 37   | 24  | 21   | 27   | 39   | 36    | 37   | 37   | 46   |
| 2.0      | 49   | 49   | 40   | 39   | 25  | 22   | 30   | 45   | 39    | 39   | 38   | 46   |
| 2.5      | 49   | 48   | 42   | 41   | 26  | 24   | 33   | 50   | 43    | 41   | 38   | 44   |
| 3.0      | 47   | 46   | 42   | 42   | 27  | 26   | 37   | 55   | 47    | 42   | 37   | 41   |
| 4        | 43   | 42   | 38   | 42   | 31  | 28   | 44   | 59   | 50    | 41   | 32   | 36   |
| 5        | 41   | 41   | 36   | 40   | 32  | 30   | 49   | 60   | 45    | 36   | 30   | 35   |
| 6        | 39   | 40   | 35   | 39   | 30  | 28   | 50   | 58   | 38    | 33   | 30   | 34   |
| 7        | 38   | 39   | 34   | 39   | 30  | 28   | 44   | 51   | 34    | 32   | 31   | 33   |
| 8        | 38   | 37   | 33   | 37   | 30  | 27   | 42   | 46   | 32    | 33   | 34   | 33   |
| 9        | 39   | 33   | 33   | 32   | 30  | 27   | 40   | 42   | 31    | 29   | 31   | 29   |
| 10       | --   | --   | --   | --   | --  | 25   | 38   | 45   | 33    | 27   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 124 | 112 | 124 | 117 | 123 | 120 | 116 | 151 | 150 | 152 | 148 | 154 |
| 5       | 119 | 102 | 117 | 106 | 111 | 116 | 111 | 145 | 144 | 143 | 137 | 144 |
| 7       | 112 | 100 | 112 | 101 | 104 | 115 | 111 | 137 | 137 | 134 | 134 | 132 |
| 9       | 35  | 30  | 35  | 43  | 82  | 106 | 108 | 135 | 106 | 85  | 64  | 56  |

AVERAGE TEMPERATURES °C.

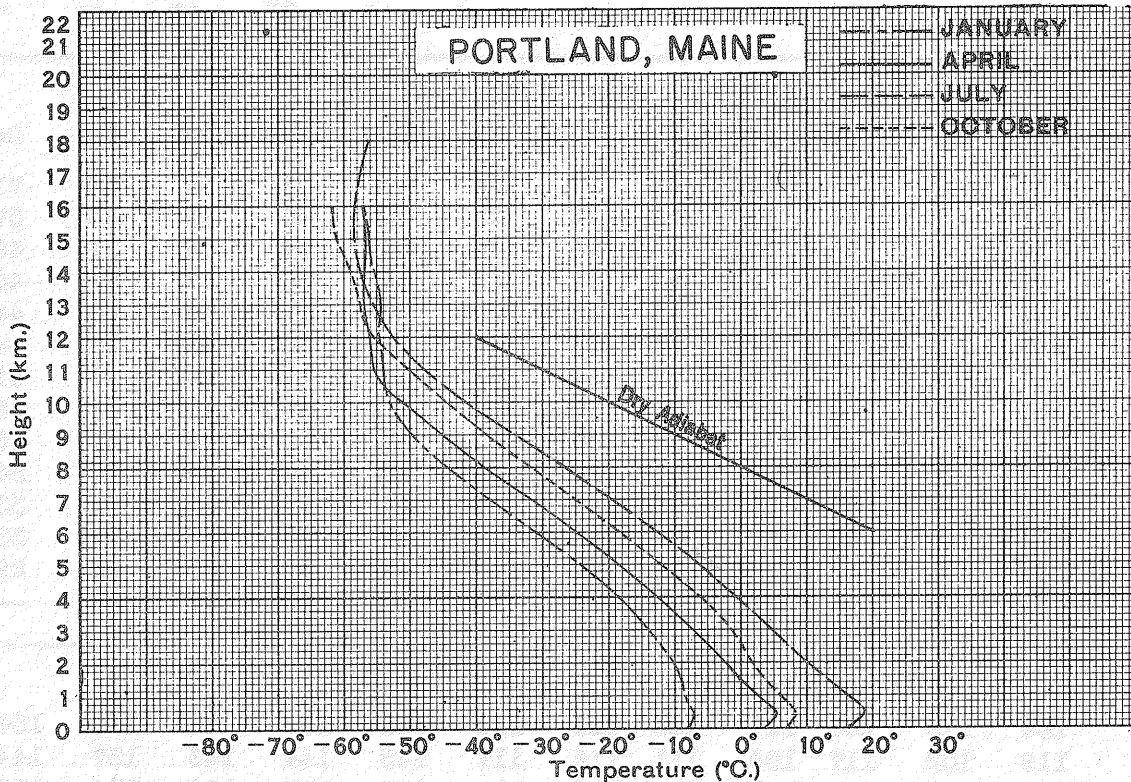
Portland, Maine  
Elevation: 20 meters, m.s.l.

Period of Record: June-July 1940  
November 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -8.2  | -6.0  | -2.0  | 3.6   | 9.6   | 14.0  | 16.4  | 15.2  | 12.0  | 7.0   | 1.6   | -5.2  |
| 0.5        | -7.3  | -6.4  | -2.4  | 5.3   | 12.2  | 16.3  | 18.9  | 17.3  | 14.3  | 8.1   | 2.3   | -4.4  |
| 1.0        | -8.6  | -8.3  | -4.9  | 2.5   | 9.9   | 14.4  | 16.1  | 14.6  | 12.2  | 6.0   | -0.1  | -5.8  |
| 1.5        | -9.0  | -9.4  | -6.7  | -0.3  | 7.0   | 11.6  | 13.0  | 11.4  | 10.0  | 3.6   | -1.6  | -6.9  |
| 2.0        | -10.1 | -11.2 | -8.1  | -2.4  | 3.9   | 8.8   | 9.6   | 8.5   | 8.3   | 1.8   | -3.4  | -8.1  |
| 2.5        | -12.0 | -13.2 | -9.8  | -4.7  | 1.0   | 6.2   | 7.0   | 5.9   | 6.5   | 0.1   | -5.6  | -9.8  |
| 3.0        | -14.0 | -15.3 | -12.2 | -7.2  | -1.5  | 3.7   | 4.5   | 3.4   | 4.0   | -1.7  | -7.7  | -11.8 |
| 4          | -18.5 | -21.0 | -17.3 | -12.7 | -7.2  | -2.0  | -0.8  | -1.7  | -1.1  | -6.7  | -12.7 | -16.8 |
| 5          | -24.3 | -26.6 | -22.7 | -18.9 | -13.6 | -7.8  | -6.5  | -7.6  | -6.7  | -12.5 | -18.4 | -22.5 |
| 6          | -31.0 | -33.0 | -29.6 | -25.0 | -20.2 | -14.4 | -12.8 | -13.8 | -12.5 | -18.8 | -24.9 | -29.9 |
| 7          | -37.8 | -39.7 | -36.6 | -31.8 | -27.0 | -20.7 | -19.5 | -20.7 | -19.4 | -25.2 | -31.5 | -35.0 |
| 8          | -44.1 | -46.1 | -43.8 | -38.6 | -34.1 | -27.9 | -26.6 | -27.9 | -26.6 | -32.0 | -38.3 | -41.3 |
| 9          | -49.5 | -49.0 | -48.9 | -45.1 | -41.0 | -35.2 | -34.2 | -35.1 | -34.1 | -38.5 | -44.7 | -46.7 |
| 10         | -53.1 | -50.8 | -52.3 | -51.2 | -47.2 | -42.4 | -41.5 | -42.0 | -41.4 | -44.5 | -49.9 | -50.8 |
| 11         | -54.0 | -51.1 | -53.4 | -55.5 | -52.4 | -49.3 | -47.9 | -47.6 | -47.9 | -50.1 | -54.0 | -53.5 |
| 12         | -54.7 | -50.4 | -53.2 | -56.1 | -53.3 | -52.8 | -51.4 | -53.6 | -54.8 | -56.8 | -54.3 | -54.3 |
| 13         | -54.3 | -50.8 | -52.6 | -56.0 | -57.3 | -57.0 | -55.8 | -53.8 | -57.8 | -57.5 | -58.3 | -55.2 |
| 14         | -55.5 | -52.1 | -53.0 | -56.9 | -57.6 | -59.0 | -57.3 | -55.8 | -61.1 | -59.0 | -58.8 | -57.1 |
| 15         | -56.2 | -53.5 | -54.5 | -56.6 | -57.8 | -59.8 | -58.7 | -57.9 | -62.9 | -61.1 | -59.1 | -58.8 |
| 16         | -57.2 | --    | --    | -57.3 | -58.2 | -60.0 | -58.2 | -58.3 | -62.6 | -61.8 | -60.8 | -59.6 |
| 17         | --    | --    | --    | --    | -58.3 | -59.1 | -57.5 | -58.0 | --    | --    | --    | --    |
| 18         | --    | --    | --    | --    | --    | -58.2 | -56.3 | --    | --    | --    | --    | --    |

Number of Observations

|         |    |    |    |    |    |     |     |    |    |    |     |     |
|---------|----|----|----|----|----|-----|-----|----|----|----|-----|-----|
| Surface | 91 | 84 | 93 | 88 | 89 | 120 | 106 | 93 | 89 | 91 | 115 | 118 |
| 5       | 89 | 76 | 87 | 83 | 76 | 110 | 97  | 89 | 82 | 85 | 112 | 116 |
| 10      | 81 | 65 | 78 | 68 | 60 | 86  | 90  | 78 | 69 | 57 | 94  | 86  |
| 15      | 37 | 30 | 35 | 42 | 39 | 67  | 59  | 46 | 37 | 41 | 57  | 45  |
| 18      | -- | -- | -- | -- | -- | 36  | 32  | -- | -- | -- | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 20 meters, m.s.l.

PORTLAND, MAINE

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1014 | 1007 | 1011 | 1013 | 1013 | 1011 | 1012 | 1011 | 1015  | 1014 | 1014 | 1014 |
| 0.5      | 954  | 947  | 952  | 955  | 957  | 956  | 957  | 956  | 959   | 957  | 955  | 954  |
| 1.0      | 895  | 888  | 894  | 898  | 901  | 901  | 903  | 902  | 904   | 900  | 898  | 895  |
| 1.5      | 838  | 833  | 838  | 844  | 848  | 849  | 851  | 850  | 852   | 847  | 843  | 840  |
| 2.0      | 786  | 780  | 786  | 793  | 798  | 800  | 802  | 800  | 802   | 796  | 792  | 787  |
| 2.5      | 736  | 731  | 737  | 744  | 750  | 752  | 755  | 753  | 754   | 748  | 743  | 738  |
| 3.0      | 690  | 684  | 690  | 698  | 705  | 708  | 710  | 708  | 710   | 703  | 697  | 691  |
| 4        | 603  | 598  | 605  | 613  | 620  | 625  | 628  | 626  | 627   | 619  | 612  | 606  |
| 5        | 527  | 522  | 529  | 537  | 545  | 551  | 553  | 551  | 553   | 544  | 537  | 530  |
| 6        | 459  | 454  | 461  | 469  | 476  | 483  | 486  | 484  | 486   | 477  | 469  | 462  |
| 7        | 397  | 393  | 399  | 408  | 416  | 423  | 426  | 423  | 426   | 416  | 408  | 401  |
| 8        | 343  | 338  | 345  | 353  | 361  | 368  | 371  | 369  | 371   | 362  | 353  | 347  |
| 9        | 295  | 291  | 297  | 305  | 313  | 320  | 322  | 320  | 322   | 314  | 305  | 299  |
| 10       | 253  | 250  | 254  | 263  | 269  | 277  | 279  | 277  | 278   | 271  | 262  | 257  |
| 11       | 217  | 215  | 218  | 226  | 232  | 238  | 240  | 239  | 240   | 233  | 225  | 221  |
| 12       | 186  | 184  | 186  | 193  | 198  | 204  | 206  | 205  | 206   | 200  | 192  | 188  |
| 13       | 159  | 158  | 160  | 164  | 169  | 175  | 176  | 175  | 176   | 171  | 164  | 161  |
| 14       | 136  | 136  | 137  | 141  | 144  | 149  | 150  | 150  | 150   | 145  | 140  | 138  |
| 15       | 117  | 117  | 117  | 121  | 123  | 127  | 128  | 128  | 128   | 124  | 120  | 118  |
| 16       | 100  | --   | --   | 103  | 105  | 108  | 109  | 109  | 109   | 105  | 102  | 100  |
| 17       | --   | --   | --   | --   | 90   | 92   | 93   | 93   | --    | --   | --   | --   |
| 18       | --   | --   | --   | --   | --   | 79   | 79   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 71   | 72   | 74   | 74   | 86  | 86   | 90   | 88   | 87    | 85   | 82   | 77   |
| 0.5      | 71   | 74   | 68   | 63   | 71  | 72   | 68   | 68   | 71    | 73   | 76   | 76   |
| 1.0      | 70   | 71   | 66   | 63   | 68  | 71   | 66   | 68   | 68    | 71   | 74   | 74   |
| 1.5      | 66   | 71   | 66   | 63   | 68  | 71   | 69   | 70   | 68    | 69   | 71   | 72   |
| 2.0      | 64   | 68   | 64   | 62   | 68  | 72   | 70   | 68   | 61    | 66   | 68   | 69   |
| 2.5      | 63   | 66   | 61   | 59   | 68  | 67   | 64   | 65   | 56    | 59   | 65   | 66   |
| 3.0      | 62   | 64   | 61   | 58   | 67  | 64   | 60   | 62   | 55    | 52   | 63   | 63   |
| 4        | 62   | 62   | 59   | 56   | 60  | 57   | 53   | 56   | 51    | 48   | 58   | 59   |
| 5        | 61   | 61   | 55   | 53   | 57  | 53   | 47   | 46   | 46    | 47   | 55   | 58   |
| 6        | 60   | 58   | 54   | 50   | 52  | 48   | 44   | 38   | 43    | 44   | 52   | 56   |
| 7        | 61   | --   | 51   | 44   | 52  | 46   | 42   | 36   | 38    | 43   | 51   | 52   |
| 8        | --   | --   | --   | --   | 47  | 46   | 41   | 37   | 39    | 40   | 51   | 53   |
| 9        | --   | --   | --   | --   | --  | 47   | 44   | 38   | 39    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |     |     |    |    |    |     |     |
|---------|----|----|----|----|----|-----|-----|----|----|----|-----|-----|
| Surface | 90 | 83 | 89 | 79 | 89 | 120 | 105 | 93 | 89 | 88 | 113 | 115 |
| 5       | 79 | 65 | 80 | 72 | 71 | 103 | 90  | 82 | 77 | 79 | 109 | 106 |
| 7       | 38 | -- | 42 | 51 | 58 | 89  | 86  | 78 | 65 | 63 | 81  | 65  |
| 9       | -- | -- | -- | -- | -- | 44  | 51  | 39 | 35 | -- | --  | --  |

AVERAGE TEMPERATURES °C.

St. Louis, Mo.

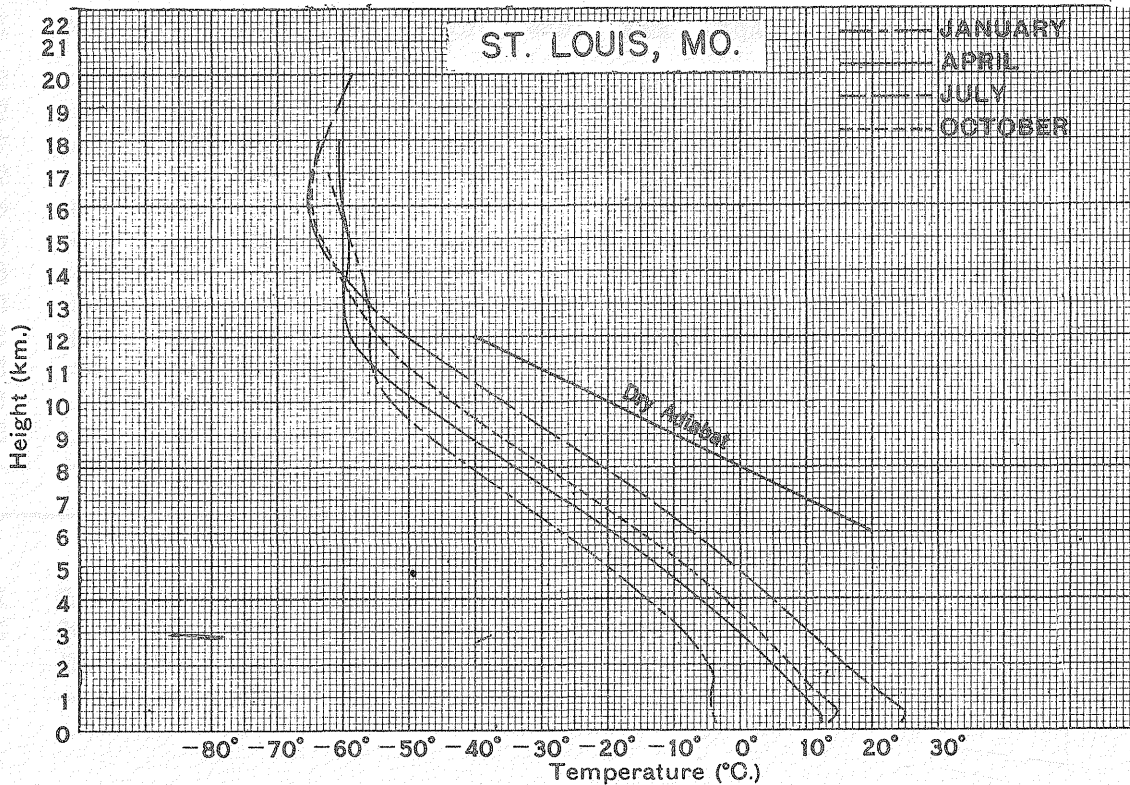
Elevation: 171 meters, m.s.l.

Period of Record: September 1939-July 1940

January 1941-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -3.6  | 0.4   | 4.3   | 12.3  | 16.8  | 22.0  | 24.6  | 24.2  | 19.2  | 13.5  | 6.0   | 0.7   |
| 0.5        | -4.2  | -0.4  | 3.5   | 12.1  | 16.6  | 22.5  | 25.0  | 24.6  | 20.2  | 14.7  | 6.5   | 1.0   |
| 1.0        | -4.5  | -2.2  | 1.5   | 9.7   | 13.9  | 19.6  | 22.0  | 21.8  | 17.7  | 12.2  | 4.8   | 0.2   |
| 1.5        | -4.1  | -3.1  | -0.5  | 7.2   | 11.0  | 16.4  | 18.8  | 18.7  | 15.1  | 9.6   | 3.4   | 0.0   |
| 2.0        | -4.8  | -4.4  | -2.4  | 4.8   | 8.6   | 13.7  | 15.6  | 16.0  | 12.6  | 7.6   | 1.8   | -1.0  |
| 2.5        | -6.5  | -6.7  | -4.4  | 2.3   | 5.9   | 11.2  | 12.7  | 13.2  | 10.1  | 5.2   | -0.3  | -2.7  |
| 3.0        | -8.9  | -9.0  | -6.9  | -0.3  | 3.2   | 8.5   | 10.1  | 10.4  | 7.3   | 2.6   | -2.6  | -4.8  |
| 4          | -14.2 | -14.1 | -12.3 | -6.1  | -2.6  | 2.8   | 4.4   | 4.7   | 1.9   | -2.8  | -8.0  | -10.1 |
| 5          | -20.3 | -20.4 | -18.6 | -12.5 | -8.6  | -3.4  | -1.5  | -0.9  | -3.9  | -8.9  | -14.1 | -16.3 |
| 6          | -26.9 | -27.0 | -25.5 | -19.3 | -15.3 | -9.5  | -7.5  | -6.6  | -10.0 | -15.3 | -20.9 | -23.2 |
| 7          | -33.9 | -33.9 | -32.8 | -26.6 | -22.4 | -16.0 | -13.9 | -12.9 | -16.7 | -22.2 | -28.2 | -30.2 |
| 8          | -40.3 | -40.9 | -40.1 | -34.2 | -29.7 | -22.9 | -21.0 | -19.6 | -24.0 | -29.6 | -35.5 | -37.1 |
| 9          | -47.5 | -47.5 | -47.1 | -41.5 | -37.3 | -30.2 | -28.3 | -26.7 | -31.4 | -36.9 | -42.7 | -43.9 |
| 10         | -52.9 | -52.8 | -52.9 | -48.6 | -44.7 | -37.7 | -35.9 | -34.1 | -38.8 | -43.7 | -49.0 | -49.9 |
| 11         | -55.8 | -55.3 | -55.7 | -55.0 | -51.3 | -45.3 | -43.5 | -41.7 | -45.7 | -49.9 | -54.3 | -54.2 |
| 12         | -56.0 | -54.8 | -57.3 | -59.0 | -56.5 | -52.1 | -50.5 | -48.9 | -52.2 | -54.6 | -57.4 | -56.2 |
| 13         | -56.3 | -54.7 | -56.7 | -60.0 | -59.3 | -57.9 | -56.1 | -55.8 | -57.6 | -58.1 | -58.6 | -57.0 |
| 14         | -57.4 | -56.2 | -56.9 | -59.2 | -59.8 | -61.3 | -60.9 | -61.5 | -62.3 | -60.9 | -60.2 | -58.0 |
| 15         | -59.1 | -58.0 | -57.8 | -59.2 | -60.1 | -63.0 | -63.9 | -66.0 | -65.9 | -63.4 | -61.7 | -59.8 |
| 16         | -60.8 | -59.4 | -58.9 | -60.3 | -60.4 | -63.8 | -65.4 | -67.9 | -67.5 | -64.7 | -62.9 | -61.1 |
| 17         | -62.1 | -60.2 | -59.3 | -60.7 | -60.7 | -63.6 | -64.5 | -67.3 | -67.9 | -64.6 | -64.2 | -62.5 |
| 18         | --    | --    | -58.4 | -60.5 | -60.4 | -63.0 | -62.5 | -64.5 | -65.2 | -63.9 | --    | --    |
| 19         | --    | --    | --    | --    | -58.9 | -61.5 | -60.6 | -62.4 | -62.9 | --    | --    | --    |
| 20         | --    | --    | --    | --    | --    | -59.6 | -58.7 | -60.7 | -61.0 | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |    |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 111                    | 113 | 124 | 120 | 124 | 120 | 106 | 93 | 121 | 122 | 120 | 123 |
| 5       | 109                    | 109 | 120 | 118 | 119 | 118 | 105 | 90 | 117 | 119 | 112 | 114 |
| 10      | 98                     | 99  | 109 | 96  | 110 | 113 | 102 | 85 | 113 | 110 | 106 | 86  |
| 15      | 59                     | 58  | 70  | 69  | 91  | 103 | 90  | 79 | 92  | 91  | 80  | 53  |
| 18      | --                     | --  | 30  | 41  | 61  | 60  | 60  | 55 | 69  | 51  | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 171 meters, m.s.l.

ST. LOUIS, MO.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 1000 | 998  | 996  | 996  | 994 | 994  | 996  | 995  | 997   | 997  | 1000 | 999  |
| 0.5      | 959  | 957  | 957  | 957  | 957 | 957  | 959  | 959  | 960   | 959  | 961  | 959  |
| 1.0      | 900  | 899  | 900  | 902  | 902 | 904  | 906  | 905  | 906   | 904  | 904  | 901  |
| 1.5      | 845  | 844  | 845  | 849  | 850 | 853  | 855  | 854  | 854   | 851  | 850  | 846  |
| 2.0      | 793  | 792  | 794  | 799  | 800 | 804  | 806  | 805  | 805   | 801  | 799  | 795  |
| 2.5      | 744  | 743  | 745  | 751  | 753 | 757  | 760  | 759  | 758   | 754  | 751  | 746  |
| 3.0      | 697  | 697  | 699  | 705  | 708 | 713  | 716  | 715  | 713   | 709  | 705  | 700  |
| 4        | 612  | 612  | 614  | 622  | 625 | 631  | 634  | 634  | 631   | 626  | 621  | 616  |
| 5        | 536  | 535  | 538  | 547  | 551 | 557  | 560  | 560  | 557   | 551  | 545  | 541  |
| 6        | 468  | 467  | 470  | 479  | 483 | 490  | 493  | 494  | 490   | 483  | 477  | 472  |
| 7        | 406  | 406  | 408  | 417  | 423 | 430  | 434  | 434  | 430   | 423  | 416  | 411  |
| 8        | 352  | 351  | 353  | 363  | 368 | 376  | 379  | 379  | 376   | 368  | 361  | 357  |
| 9        | 303  | 302  | 304  | 314  | 319 | 327  | 330  | 331  | 327   | 319  | 312  | 308  |
| 10       | 260  | 260  | 261  | 271  | 276 | 284  | 287  | 288  | 283   | 276  | 268  | 265  |
| 11       | 223  | 223  | 224  | 232  | 237 | 245  | 248  | 249  | 245   | 237  | 230  | 228  |
| 12       | 190  | 190  | 191  | 198  | 203 | 210  | 213  | 214  | 210   | 204  | 197  | 195  |
| 13       | 163  | 163  | 163  | 169  | 173 | 180  | 183  | 184  | 180   | 174  | 168  | 166  |
| 14       | 139  | 139  | 139  | 144  | 147 | 153  | 156  | 157  | 153   | 148  | 143  | 142  |
| 15       | 119  | 119  | 119  | 123  | 126 | 130  | 132  | 133  | 130   | 126  | 122  | 121  |
| 16       | 102  | 101  | 101  | 105  | 107 | 111  | 113  | 113  | 111   | 107  | 104  | 103  |
| 17       | 87   | 86   | 87   | 89   | 91  | 94   | 96   | 96   | 94    | 91   | 89   | 88   |
| 18       | --   | --   | 74   | 76   | 78  | 80   | 81   | 81   | 79    | 77   | --   | --   |
| 19       | --   | --   | --   | --   | 66  | 68   | 69   | 69   | 68    | --   | --   | --   |
| 20       | --   | --   | --   | --   | --  | 58   | 59   | 59   | 58    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 76   | 73   | 68   | 69   | 74  | 79   | 72   | 73   | 73    | 73   | 73   | 79   |
| 0.5      | 76   | 71   | 64   | 63   | 66  | 69   | 63   | 61   | 61    | 62   | 66   | 74   |
| 1.0      | 73   | 69   | 63   | 62   | 65  | 68   | 64   | 62   | 59    | 61   | 64   | 68   |
| 1.5      | 67   | 65   | 61   | 61   | 65  | 69   | 66   | 63   | 59    | 60   | 59   | 61   |
| 2.0      | 62   | 62   | 60   | 60   | 62  | 65   | 66   | 57   | 55    | 57   | 54   | 54   |
| 2.5      | 58   | 61   | 59   | 57   | 60  | 59   | 60   | 55   | 50    | 51   | 52   | 49   |
| 3.0      | 56   | 59   | 58   | 55   | 58  | 57   | 54   | 51   | 48    | 48   | 49   | 46   |
| 4        | 53   | 56   | 56   | 51   | 52  | 55   | 50   | 50   | 47    | 46   | 49   | 43   |
| 5        | 50   | 53   | 53   | 49   | 49  | 53   | 45   | 48   | 44    | 40   | 44   | 38   |
| 6        | 48   | 52   | 51   | 47   | 45  | 49   | 42   | 43   | 40    | 39   | 43   | 42   |
| 7        | 43   | 52   | 49   | 45   | 44  | 45   | 39   | 38   | 38    | 39   | 39   | 40   |
| 8        | --   | --   | --   | 44   | 44  | 45   | 38   | 38   | 37    | 37   | 37   | 39   |
| 9        | --   | --   | --   | --   | 48  | 46   | 39   | 42   | 37    | 42   | --   | --   |
| 10       | --   | --   | --   | --   | --  | --   | 40   | --   | 33    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |    |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 111 | 113 | 123 | 120 | 124 | 120 | 106 | 93 | 121 | 122 | 120 | 123 |
| 5       | 105 | 104 | 113 | 118 | 116 | 114 | 102 | 87 | 117 | 116 | 107 | 115 |
| 7       | 72  | 75  | 86  | 106 | 113 | 111 | 98  | 87 | 116 | 109 | 79  | 70  |
| 9       | --  | --  | --  | --  | 49  | 85  | 71  | 32 | 67  | 30  | --  | --  |

AVERAGE TEMPERATURES °C.

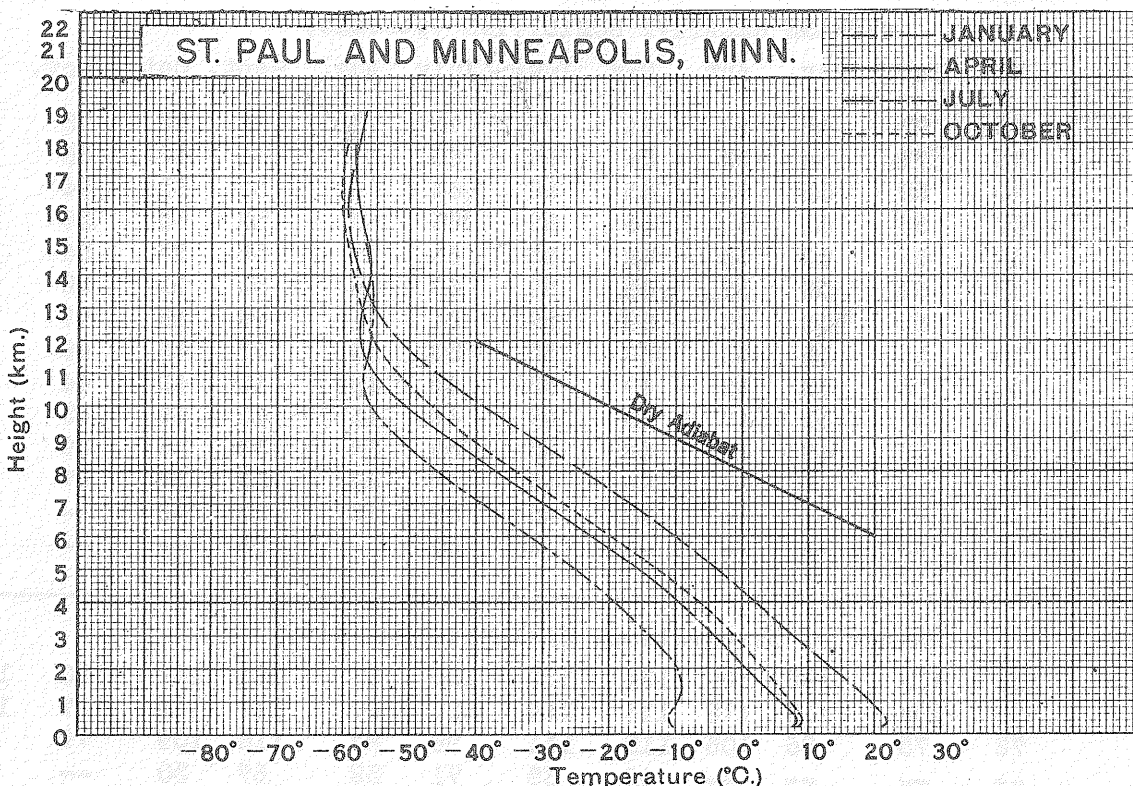
St. Paul & Minneapolis, Minn.  
Elevation: 265 meters, m.s.l.

Period of Record: September 1939-July 1940  
January 1941-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -10.7 | -7.6  | -2.7  | 8.0   | 13.1  | 18.9  | 21.2  | 20.5  | 14.2  | 8.2   | 0.4   | -5.0  |
| 0.5        | -11.0 | -8.1  | -3.4  | 8.1   | 12.9  | 18.9  | 21.7  | 20.8  | 14.4  | 9.1   | 0.6   | -5.2  |
| 1.0        | -9.9  | -8.9  | -5.2  | 5.6   | 10.4  | 16.5  | 19.4  | 18.4  | 12.3  | 7.2   | -0.5  | -5.0  |
| 1.5        | -9.5  | -8.9  | -6.7  | 3.0   | 7.7   | 13.7  | 16.5  | 15.5  | 10.1  | 5.2   | -1.3  | -4.9  |
| 2.0        | -10.0 | -9.8  | -8.2  | 0.6   | 5.1   | 11.1  | 13.5  | 13.0  | 7.8   | 3.4   | -2.9  | -5.9  |
| 2.5        | -11.7 | -11.5 | -10.1 | -1.7  | 2.6   | 8.6   | 10.5  | 10.5  | 5.3   | 1.3   | -4.3  | -7.2  |
| 3.0        | -14.0 | -13.6 | -12.3 | -4.1  | -0.2  | 6.0   | 7.6   | 7.8   | 2.8   | -1.0  | -7.0  | -10.1 |
| 4          | -19.4 | -18.6 | -17.6 | -9.7  | -5.9  | 0.3   | 2.0   | 2.1   | -2.6  | -6.5  | -12.4 | -15.3 |
| 5          | -25.4 | -24.7 | -23.5 | -16.0 | -12.1 | -5.8  | -3.8  | -3.9  | -8.6  | -12.7 | -18.8 | -21.6 |
| 6          | -31.8 | -31.4 | -30.0 | -22.8 | -18.9 | -12.2 | -10.3 | -10.1 | -15.0 | -20.0 | -25.3 | -28.3 |
| 7          | -39.2 | -38.6 | -37.2 | -30.0 | -26.2 | -19.0 | -17.0 | -16.7 | -21.8 | -27.0 | -32.4 | -35.4 |
| 8          | -45.9 | -45.6 | -44.4 | -37.5 | -33.7 | -26.4 | -24.3 | -23.6 | -28.8 | -34.3 | -39.7 | -42.2 |
| 9          | -51.5 | -51.5 | -50.7 | -44.4 | -41.0 | -33.9 | -31.7 | -30.8 | -35.9 | -41.3 | -46.5 | -48.1 |
| 10         | -55.9 | -54.7 | -55.4 | -50.9 | -47.6 | -41.2 | -39.1 | -38.0 | -42.5 | -47.0 | -51.9 | -52.3 |
| 11         | -56.9 | -54.1 | -56.1 | -55.6 | -52.7 | -47.6 | -45.9 | -44.8 | -48.1 | -51.8 | -55.2 | -53.8 |
| 12         | -56.1 | -52.4 | -54.8 | -57.3 | -55.1 | -52.8 | -51.6 | -50.4 | -52.2 | -55.3 | -56.5 | -53.8 |
| 13         | -55.4 | -51.8 | -53.9 | -57.0 | -55.6 | -56.5 | -55.3 | -55.3 | -55.6 | -56.9 | -57.2 | -54.0 |
| 14         | -55.8 | -52.8 | -54.2 | -56.0 | -55.4 | -58.3 | -57.4 | -59.0 | -58.2 | -58.5 | -57.3 | -54.4 |
| 15         | -56.5 | -53.9 | -54.7 | -56.4 | -55.7 | -58.9 | -58.8 | -61.2 | -60.3 | -59.4 | -58.0 | -55.7 |
| 16         | --    | -54.8 | -55.7 | -57.5 | -56.3 | -58.8 | -59.6 | -61.6 | -60.9 | -60.0 | -58.9 | -56.4 |
| 17         | --    | -55.3 | -56.7 | -58.1 | -56.4 | -58.5 | -58.7 | -60.6 | -61.0 | -60.1 | -59.6 | --    |
| 18         | --    | --    | --    | -58.0 | -55.4 | -58.0 | -58.0 | -58.5 | -60.3 | -59.4 | --    | --    |
| 19         | --    | --    | --    | --    | --    | -56.8 | -56.7 | --    | --    | --    | --    | --    |

Number of Observations

|         | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| Surface | 123 | 112 | 124 | 117 | 124 | 116  | 105  | 93  | 121  | 124 | 119 | 124 |
| 5       | 116 | 110 | 121 | 116 | 117 | 110  | 103  | 89  | 117  | 122 | 112 | 118 |
| 10      | 89  | 93  | 106 | 106 | 101 | 97   | 99   | 78  | 109  | 103 | 104 | 82  |
| 15      | 42  | 64  | 74  | 76  | 71  | 81   | 82   | 56  | 66   | 71  | 58  | 42  |
| 18      | --  | --  | --  | 31  | 32  | 47   | 45   | 29  | 40   | 38  | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 225 meters, m.s.l.

ST. PAUL-MINNEAPOLIS, MINN. <sup>63</sup>

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 991  | 990  | 988  | 988  | 985 | 985  | 988  | 987  | 988   | 987  | 990  | 989  |
| 0.5      | 958  | 957  | 956  | 957  | 955 | 955  | 957  | 956  | 957   | 956  | 958  | 956  |
| 1.0      | 898  | 897  | 897  | 900  | 900 | 901  | 904  | 903  | 902   | 900  | 900  | 897  |
| 1.5      | 841  | 841  | 841  | 847  | 847 | 850  | 853  | 852  | 850   | 847  | 846  | 842  |
| 2.0      | 788  | 788  | 789  | 796  | 797 | 800  | 803  | 802  | 800   | 796  | 794  | 790  |
| 2.5      | 739  | 739  | 740  | 747  | 749 | 754  | 757  | 756  | 753   | 749  | 745  | 741  |
| 3.0      | 692  | 692  | 693  | 702  | 704 | 709  | 713  | 711  | 708   | 703  | 699  | 694  |
| 4        | 605  | 606  | 607  | 617  | 621 | 627  | 631  | 630  | 625   | 620  | 614  | 609  |
| 5        | 529  | 529  | 531  | 542  | 546 | 553  | 557  | 556  | 550   | 545  | 538  | 533  |
| 6        | 460  | 460  | 462  | 473  | 478 | 486  | 490  | 489  | 483   | 477  | 470  | 465  |
| 7        | 398  | 399  | 401  | 412  | 417 | 426  | 430  | 429  | 422   | 416  | 408  | 403  |
| 8        | 344  | 344  | 346  | 357  | 362 | 371  | 375  | 375  | 368   | 361  | 354  | 349  |
| 9        | 295  | 295  | 297  | 309  | 313 | 323  | 326  | 326  | 319   | 312  | 305  | 301  |
| 10       | 253  | 253  | 255  | 265  | 270 | 279  | 283  | 283  | 276   | 269  | 262  | 258  |
| 11       | 216  | 217  | 218  | 227  | 232 | 241  | 244  | 244  | 238   | 231  | 225  | 221  |
| 12       | 185  | 185  | 186  | 194  | 199 | 207  | 209  | 210  | 204   | 198  | 192  | 189  |
| 13       | 158  | 159  | 159  | 166  | 170 | 177  | 179  | 180  | 175   | 169  | 164  | 162  |
| 14       | 135  | 136  | 136  | 142  | 145 | 151  | 153  | 153  | 149   | 145  | 140  | 138  |
| 15       | 116  | 117  | 117  | 121  | 124 | 129  | 130  | 131  | 127   | 123  | 119  | 119  |
| 16       | --   | 100  | 100  | 104  | 106 | 111  | 112  | 111  | 108   | 105  | 102  | 102  |
| 17       | --   | 85   | 86   | 89   | 91  | 95   | 95   | 95   | 92    | 90   | 87   | --   |
| 18       | --   | --   | --   | 75   | 77  | 81   | 81   | 81   | 79    | 77   | --   | --   |
| 19       | --   | --   | --   | --   | --  | 68   | 70   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 83   | 79   | 78   | 67   | 72  | 77   | 78   | 80   | 77    | 75   | 76   | 80   |
| 0.5      | 84   | 79   | 77   | 63   | 67  | 70   | 68   | 69   | 68    | 67   | 74   | 79   |
| 1.0      | 81   | 77   | 75   | 61   | 66  | 69   | 62   | 67   | 65    | 64   | 69   | 71   |
| 1.5      | 75   | 74   | 69   | 62   | 67  | 70   | 62   | 66   | 64    | 61   | 57   | 62   |
| 2.0      | 71   | 70   | 64   | 60   | 66  | 64   | 60   | 61   | 59    | 56   | 52   | 56   |
| 2.5      | 68   | 66   | 62   | 58   | 65  | 58   | 56   | 55   | 56    | 52   | 50   | 53   |
| 3.0      | 67   | 63   | 60   | 55   | 64  | 55   | 54   | 53   | 50    | 50   | 47   | 51   |
| 4        | 63   | 59   | 57   | 52   | 55  | 50   | 48   | 49   | 47    | 47   | 47   | 50   |
| 5        | 62   | 56   | 56   | 49   | 51  | 46   | 45   | 44   | 44    | 44   | 49   | 52   |
| 6        | 58   | 54   | 55   | 47   | 48  | 43   | 43   | 40   | 41    | 43   | 47   | 49   |
| 7        | 53   | 52   | 54   | 47   | 46  | 41   | 44   | 39   | 39    | 41   | 45   | 48   |
| 8        | --   | --   | --   | 43   | 47  | 39   | 41   | 37   | 37    | 44   | --   | --   |
| 9        | --   | --   | --   | --   | --  | 38   | 42   | 38   | 39    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |    |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 123 | 112 | 123 | 117 | 124 | 117 | 105 | 93 | 121 | 124 | 119 | 124 |
| 5       | 106 | 94  | 114 | 116 | 113 | 108 | 101 | 89 | 114 | 122 | 112 | 111 |
| 7       | 48  | 45  | 63  | 105 | 100 | 78  | 71  | 53 | 82  | 106 | 91  | 57  |
| 9       | --  | --  | --  | --  | --  | 31  | 48  | 32 | 45  | --  | --  | --  |

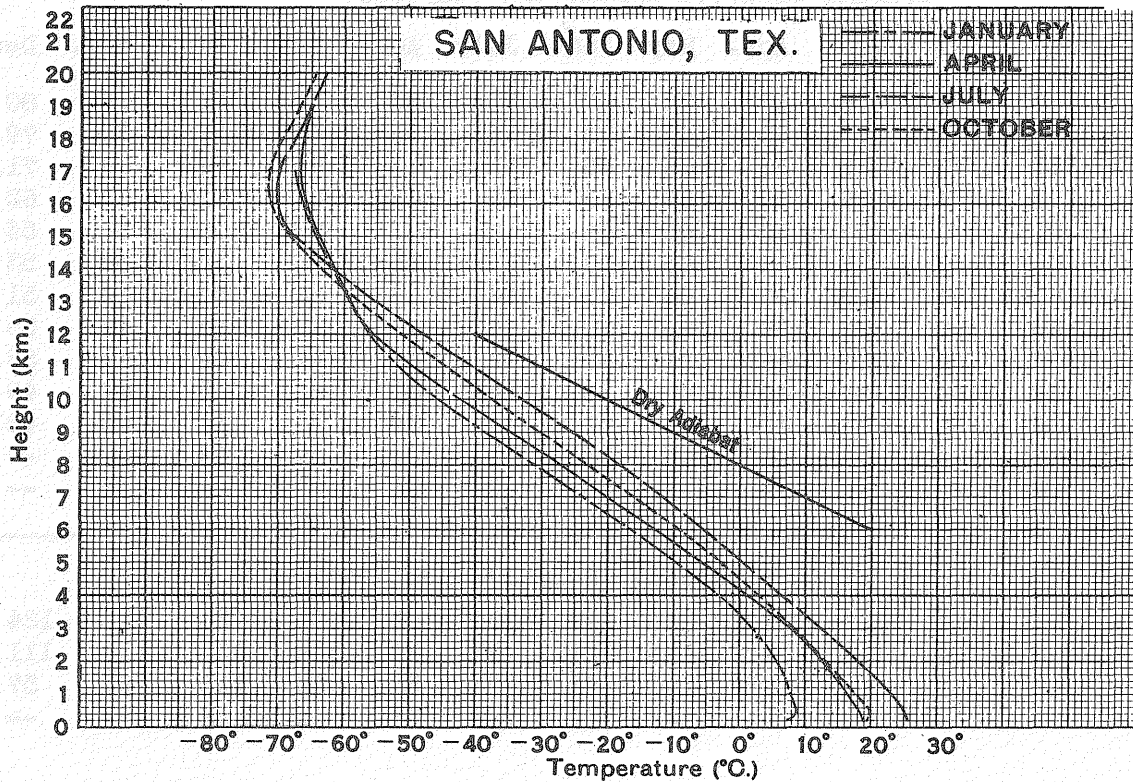
AVERAGE TEMPERATURES °C.

San Antonio, Tex.  
Elevation: 240 meters, m.s.l.

Period of Record: July 1939-July 1940  
March 1941-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 7.1   | 11.8  | 14.2  | 18.8  | 22.1  | 25.1  | 25.7  | 26.5  | 22.9  | 19.5  | 12.8  | 10.7  |
| 0.5        | 8.7   | 12.2  | 14.3  | 18.3  | 21.3  | 24.2  | 25.2  | 25.6  | 22.7  | 19.9  | 14.7  | 12.6  |
| 1.0        | 7.7   | 10.2  | 12.8  | 16.5  | 19.5  | 22.0  | 23.2  | 23.6  | 20.4  | 17.6  | 12.4  | 11.2  |
| 1.5        | 7.1   | 8.6   | 10.8  | 14.8  | 17.2  | 19.6  | 20.7  | 20.9  | 18.0  | 15.2  | 10.4  | 10.0  |
| 2.0        | 5.8   | 7.5   | 9.0   | 12.8  | 15.0  | 16.9  | 17.9  | 18.0  | 15.4  | 13.0  | 9.6   | 8.4   |
| 2.5        | 4.3   | 5.0   | 6.9   | 10.5  | 12.8  | 14.2  | 15.2  | 15.3  | 13.0  | 10.7  | 6.8   | 6.6   |
| 3.0        | 1.9   | 2.6   | 4.2   | 7.9   | 10.2  | 11.5  | 12.4  | 12.6  | 10.4  | 8.3   | 4.4   | 4.4   |
| 4          | -3.4  | -3.3  | -2.3  | 1.2   | 3.7   | 5.6   | 6.4   | 6.8   | 5.1   | 2.8   | -0.9  | -1.3  |
| 5          | -9.8  | -9.5  | -8.9  | -5.7  | -2.9  | -0.4  | 0.5   | 1.0   | -0.6  | -2.7  | -6.6  | -7.5  |
| 6          | -16.7 | -16.2 | -15.9 | -12.9 | -9.7  | -6.6  | -5.4  | -4.8  | -6.2  | -9.1  | -13.0 | -14.3 |
| 7          | -23.9 | -23.5 | -23.2 | -20.1 | -16.7 | -13.3 | -11.5 | -11.2 | -12.5 | -16.0 | -20.3 | -21.6 |
| 8          | -31.3 | -30.6 | -30.6 | -27.4 | -23.8 | -20.4 | -18.4 | -17.9 | -19.4 | -23.1 | -27.5 | -28.6 |
| 9          | -38.9 | -37.9 | -38.2 | -34.8 | -31.1 | -27.6 | -25.5 | -25.1 | -26.4 | -30.3 | -34.9 | -35.7 |
| 10         | -45.9 | -44.7 | -45.5 | -42.3 | -38.9 | -34.9 | -33.0 | -32.4 | -33.8 | -37.5 | -42.4 | -42.9 |
| 11         | -52.0 | -50.6 | -51.9 | -49.6 | -46.5 | -42.5 | -40.6 | -40.2 | -41.4 | -44.6 | -49.4 | -49.5 |
| 12         | -55.9 | -54.9 | -56.3 | -55.6 | -53.2 | -49.8 | -48.2 | -48.0 | -48.9 | -51.4 | -55.3 | -55.3 |
| 13         | -59.2 | -57.8 | -58.4 | -59.2 | -59.2 | -56.3 | -55.5 | -55.6 | -56.2 | -57.7 | -60.1 | -59.4 |
| 14         | -61.7 | -60.9 | -60.5 | -61.6 | -62.5 | -61.7 | -62.0 | -62.5 | -63.1 | -63.5 | -63.4 | -62.4 |
| 15         | -64.2 | -64.0 | -63.4 | -63.8 | -64.8 | -65.5 | -67.3 | -67.8 | -69.1 | -68.2 | -66.4 | -65.3 |
| 16         | -66.5 | -66.5 | -65.9 | -66.1 | -66.0 | -68.4 | -70.1 | -71.1 | -72.2 | -71.2 | -68.3 | -68.1 |
| 17         | -67.7 | --    | -67.9 | -66.9 | -67.2 | -69.2 | -70.0 | -70.5 | -72.5 | -71.5 | -69.0 | -69.5 |
| 18         | --    | --    | -67.2 | -66.4 | -66.2 | -67.6 | -67.2 | -67.8 | -70.3 | -69.6 | -68.0 | -69.1 |
| 19         | --    | --    | --    | -64.9 | -64.4 | -65.0 | -64.9 | -65.3 | -67.3 | -66.9 | -67.3 | --    |
| 20         | --    | --    | --    | --    | --    | -62.1 | -62.7 | -63.2 | -64.1 | -64.4 | --    | --    |
| 21         | --    | --    | --    | --    | --    | --    | --    | --    | -62.0 | --    | --    | --    |

| Number of Observations |    |    |     |     |     |     |     |     |     |     |     |     |
|------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface                | 92 | 85 | 104 | 120 | 124 | 120 | 129 | 120 | 117 | 121 | 113 | 123 |
| 5                      | 91 | 84 | 102 | 120 | 120 | 118 | 128 | 119 | 114 | 121 | 109 | 119 |
| 10                     | 79 | 64 | 76  | 114 | 112 | 111 | 124 | 113 | 107 | 115 | 105 | 109 |
| 15                     | 53 | 36 | 54  | 99  | 85  | 92  | 112 | 85  | 95  | 98  | 88  | 63  |
| 18                     | -- | -- | 28  | 58  | 55  | 63  | 86  | 62  | 73  | 56  | 42  | 38  |





AVERAGE PRESSURES (Mbs.)

Elevation: 240 meters, m.s.l.

SAN ANTONIO, TEX.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 1000 | 995  | 993  | 992  | 992 | 991  | 993  | 990  | 991   | 993  | 997  | 995  |
| 0.5      | 964  | 960  | 958  | 957  | 957 | 957  | 960  | 958  | 959   | 960  | 962  | 961  |
| 1.0      | 907  | 904  | 903  | 903  | 904 | 904  | 906  | 905  | 905   | 906  | 908  | 906  |
| 1.5      | 854  | 851  | 851  | 851  | 853 | 853  | 856  | 855  | 854   | 854  | 855  | 853  |
| 2.0      | 803  | 801  | 801  | 802  | 804 | 805  | 807  | 807  | 805   | 805  | 805  | 803  |
| 2.5      | 755  | 753  | 753  | 755  | 757 | 759  | 761  | 761  | 759   | 758  | 757  | 756  |
| 3.0      | 710  | 709  | 709  | 711  | 714 | 715  | 718  | 717  | 715   | 714  | 713  | 711  |
| 4        | 626  | 625  | 626  | 629  | 632 | 634  | 636  | 636  | 634   | 632  | 630  | 628  |
| 5        | 551  | 551  | 551  | 555  | 558 | 560  | 563  | 562  | 560   | 558  | 555  | 553  |
| 6        | 484  | 483  | 484  | 488  | 491 | 494  | 496  | 496  | 494   | 491  | 487  | 485  |
| 7        | 423  | 422  | 423  | 427  | 431 | 434  | 436  | 436  | 434   | 431  | 427  | 425  |
| 8        | 363  | 367  | 368  | 372  | 376 | 380  | 382  | 382  | 380   | 376  | 372  | 370  |
| 9        | 318  | 318  | 319  | 323  | 327 | 331  | 333  | 333  | 331   | 327  | 323  | 321  |
| 10       | 275  | 274  | 275  | 280  | 284 | 288  | 290  | 290  | 288   | 284  | 279  | 278  |
| 11       | 236  | 235  | 236  | 240  | 244 | 248  | 251  | 251  | 249   | 245  | 240  | 239  |
| 12       | 202  | 202  | 202  | 206  | 210 | 214  | 216  | 217  | 215   | 211  | 206  | 204  |
| 13       | 172  | 172  | 173  | 176  | 179 | 183  | 186  | 186  | 184   | 180  | 176  | 174  |
| 14       | 147  | 147  | 147  | 150  | 152 | 156  | 158  | 158  | 156   | 154  | 150  | 149  |
| 15       | 125  | 125  | 125  | 127  | 129 | 133  | 134  | 134  | 133   | 130  | 127  | 126  |
| 16       | 106  | 106  | 106  | 109  | 110 | 113  | 114  | 113  | 112   | 111  | 108  | 107  |
| 17       | 90   | --   | 90   | 92   | 93  | 95   | 96   | 96   | 95    | 94   | 91   | 91   |
| 18       | --   | --   | 77   | 78   | 79  | 80   | 81   | 81   | 80    | 79   | 77   | 77   |
| 19       | --   | --   | --   | 66   | 68  | 68   | 69   | 69   | 68    | 67   | 66   | --   |
| 20       | --   | --   | --   | --   | --  | 58   | 59   | 58   | 57    | 57   | --   | --   |
| 21       | --   | --   | --   | --   | --  | --   | --   | --   | 49    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 67   | 70   | 66   | 77   | 80  | 80   | 79   | 75   | 81    | 79   | 82   | 77   |
| 0.5      | 64   | 66   | 64   | 75   | 78  | 79   | 77   | 75   | 77    | 71   | 65   | 70   |
| 1.0      | 60   | 64   | 58   | 69   | 72  | 75   | 70   | 71   | 72    | 66   | 67   | 64   |
| 1.5      | 56   | 60   | 52   | 61   | 67  | 69   | 67   | 69   | 71    | 67   | 65   | 57   |
| 2.0      | 52   | 53   | 47   | 52   | 59  | 64   | 62   | 66   | 68    | 60   | 56   | 50   |
| 2.5      | 48   | 48   | 42   | 46   | 51  | 58   | 55   | 51   | 62    | 54   | 49   | 44   |
| 3.0      | 46   | 43   | 39   | 41   | 42  | 53   | 52   | 56   | 58    | 50   | 46   | 39   |
| 4        | 42   | 40   | 38   | 36   | 40  | 49   | 49   | 52   | 54    | 47   | 42   | 37   |
| 5        | 40   | 38   | 37   | 35   | 38  | 47   | 48   | 51   | 51    | 43   | 38   | 35   |
| 6        | 40   | 39   | 37   | 34   | 36  | 41   | 45   | 50   | 47    | 42   | 40   | 33   |
| 7        | 39   | 41   | 35   | 35   | 38  | 40   | 42   | 48   | 44    | 40   | 41   | 34   |
| 8        | 37   | 40   | 36   | 34   | 38  | 38   | 40   | 46   | 42    | 39   | 40   | 36   |
| 9        | 36   | --   | 34   | 37   | 36  | 38   | 40   | 45   | 41    | 37   | 40   | 37   |
| 10       | --   | --   | --   | --   | --  | 37   | 41   | 46   | 42    | 38   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |     |     |     |     |     |     |     |     |     |     |
|---------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 92 | 85 | 104 | 120 | 124 | 120 | 130 | 120 | 119 | 124 | 107 | 123 |
| 5       | 88 | 82 | 97  | 118 | 118 | 118 | 129 | 117 | 115 | 115 | 107 | 117 |
| 7       | 82 | 51 | 62  | 115 | 86  | 116 | 127 | 113 | 114 | 91  | 88  | 98  |
| 9       | 26 | -- | 25  | 59  | 69  | 113 | 122 | 110 | 108 | 75  | 66  | 55  |

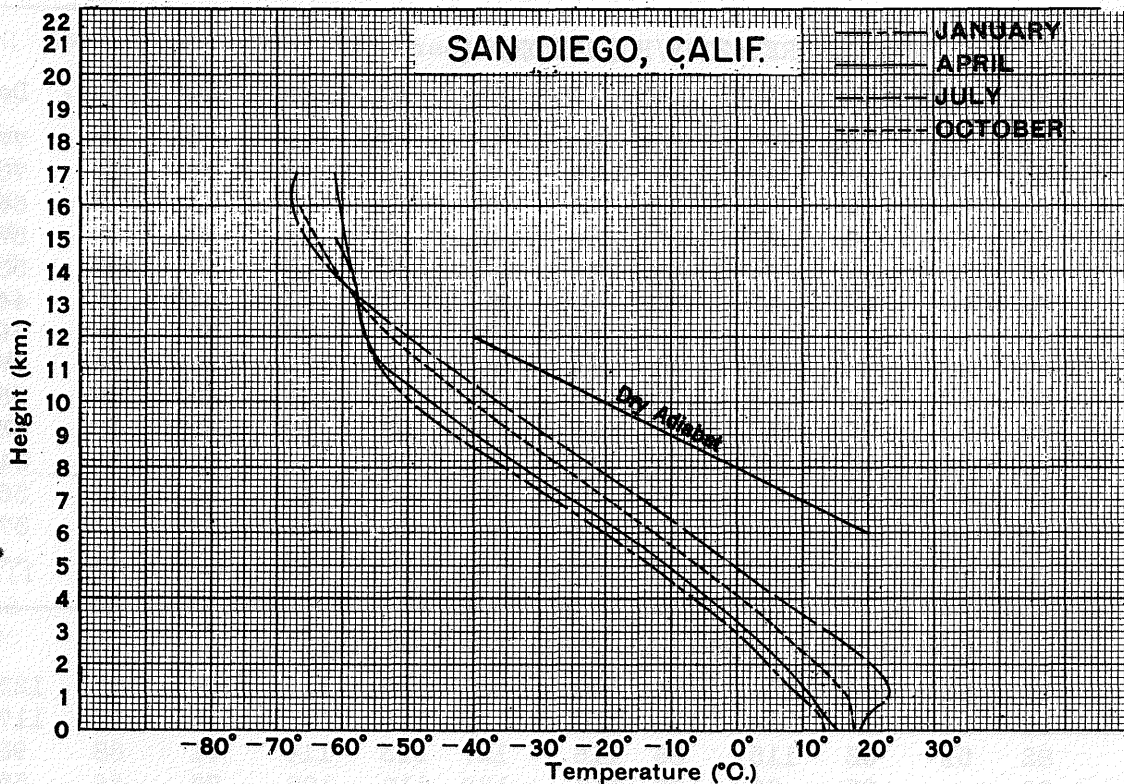
AVERAGE TEMPERATURES °C

San Diego, Calif.  
Elevation: 19 meters, m.s.l.

Period of Record: February-July 1940  
October 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 13.3  | 13.9  | 14.9  | 15.3  | 17.0  | 17.0  | 18.8  | 19.7  | 18.7  | 17.9  | 15.8  | 14.0  |
| 0.5        | 12.3  | 12.3  | 12.7  | 12.8  | 15.1  | 15.2  | 19.8  | 19.1  | 18.6  | 17.4  | 15.9  | 13.3  |
| 1.0        | 10.0  | 9.8   | 10.9  | 11.3  | 15.6  | 18.1  | 23.0  | 21.9  | 20.2  | 17.0  | 14.3  | 11.2  |
| 1.5        | 7.1   | 7.0   | 9.1   | 9.3   | 15.0  | 18.2  | 22.8  | 21.2  | 19.3  | 14.8  | 12.0  | 8.7   |
| 2.0        | 4.9   | 4.6   | 6.7   | 7.3   | 15.2  | 16.5  | 20.5  | 19.1  | 16.9  | 12.3  | 9.7   | 6.0   |
| 2.5        | 2.4   | 2.3   | 4.0   | 4.7   | 10.6  | 13.9  | 17.2  | 16.1  | 13.8  | 9.5   | 7.4   | 3.6   |
| 3.0        | -0.3  | -0.3  | 0.3   | 1.7   | 7.7   | 11.0  | 13.7  | 12.8  | 10.8  | 6.5   | 4.7   | -0.3  |
| 4          | -6.7  | -6.3  | -4.6  | -4.3  | 1.5   | 4.4   | 6.4   | 6.3   | 4.6   | 0.5   | -1.0  | -5.1  |
| 5          | -13.3 | -12.6 | -11.3 | -10.6 | -5.5  | -2.4  | -0.6  | 0.0   | -1.6  | -5.9  | -7.4  | -11.6 |
| 6          | -20.3 | -19.9 | -18.4 | -17.6 | -12.3 | -9.4  | -7.1  | -6.6  | -3.2  | -12.7 | -14.0 | -18.6 |
| 7          | -27.9 | -27.0 | -25.5 | -25.0 | -19.8 | -16.8 | -13.9 | -13.1 | -15.4 | -19.6 | -21.6 | -25.6 |
| 8          | -35.9 | -33.8 | -33.2 | -32.6 | -27.4 | -24.6 | -21.6 | -20.1 | -22.8 | -26.6 | -29.5 | -32.8 |
| 9          | -43.2 | -40.7 | -40.7 | -39.9 | -35.1 | -32.4 | -29.2 | -27.5 | -30.3 | -33.9 | -36.5 | -39.8 |
| 10         | -49.7 | -47.4 | -47.9 | -46.5 | -42.4 | -40.0 | -36.4 | -34.6 | -37.3 | -40.6 | -43.9 | -46.3 |
| 11         | -54.0 | -52.6 | -54.3 | -53.3 | -49.7 | -46.9 | -43.2 | -41.3 | -43.8 | -46.6 | -50.8 | -52.2 |
| 12         | -56.6 | -56.5 | -58.4 | -56.5 | -56.2 | -53.5 | -50.1 | -48.1 | -50.1 | -52.7 | -55.8 | -56.3 |
| 13         | -57.6 | -58.9 | -59.7 | -57.7 | -60.6 | -58.2 | -56.4 | -54.9 | -55.9 | -57.3 | -58.8 | -59.1 |
| 14         | -58.7 | -60.5 | -61.1 | -58.5 | -62.3 | -61.7 | -61.8 | -60.7 | -61.2 | -61.2 | -62.2 | -61.1 |
| 15         | -61.2 | -62.5 | -62.4 | -59.8 | -62.9 | -63.8 | -65.8 | -64.9 | -65.0 | -64.0 | -66.0 | -63.5 |
| 16         | --    | --    | --    | -60.9 | -63.9 | -65.6 | -67.8 | -67.7 | --    | -66.4 | --    | --    |
| 17         | --    | --    | --    | -61.3 | -63.8 | -66.0 | -67.0 | -68.1 | --    | --    | --    | --    |
| 18         | --    | --    | --    | --    | --    | --    | -65.5 | --    | --    | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |    |    |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|
| Surface | 90                     | 107 | 115 | 113 | 119 | 118 | 121 | 89 | 87 | 122 | 114 | 114 |
| 5       | 87                     | 102 | 110 | 108 | 116 | 115 | 119 | 88 | 83 | 117 | 107 | 108 |
| 10      | 50                     | 59  | 69  | 74  | 76  | 78  | 91  | 65 | 50 | 69  | 59  | 69  |
| 15      | 25                     | 25  | 28  | 42  | 53  | 45  | 63  | 46 | 31 | 37  | 20  | 28  |
| 18      | --                     | --  | --  | --  | --  | --  | 38  | -- | -- | --  | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 19 meters, m.s.l.

SAN DIEGO, CALIF.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1015 | 1013 | 1013 | 1012 | 1011 | 1010 | 1010 | 1010 | 1008  | 1011 | 1013 | 1014 |
| 0.5      | 960  | 957  | 957  | 956  | 955  | 954  | 956  | 955  | 954   | 956  | 958  | 958  |
| 1.0      | 903  | 902  | 902  | 901  | 901  | 900  | 903  | 902  | 900   | 901  | 903  | 903  |
| 1.5      | 850  | 849  | 849  | 848  | 849  | 849  | 852  | 852  | 850   | 850  | 851  | 851  |
| 2.0      | 800  | 799  | 799  | 798  | 800  | 801  | 804  | 803  | 801   | 801  | 801  | 801  |
| 2.5      | 752  | 750  | 751  | 751  | 753  | 754  | 759  | 758  | 755   | 754  | 754  | 752  |
| 3.0      | 707  | 705  | 706  | 706  | 709  | 711  | 715  | 714  | 711   | 710  | 709  | 707  |
| 4        | 622  | 621  | 623  | 623  | 627  | 630  | 634  | 633  | 630   | 628  | 627  | 623  |
| 5        | 546  | 546  | 548  | 548  | 553  | 556  | 560  | 559  | 556   | 553  | 552  | 548  |
| 6        | 479  | 478  | 480  | 480  | 486  | 489  | 494  | 493  | 490   | 486  | 485  | 480  |
| 7        | 418  | 418  | 419  | 419  | 426  | 429  | 434  | 433  | 430   | 426  | 424  | 420  |
| 8        | 362  | 363  | 365  | 365  | 372  | 375  | 379  | 379  | 376   | 372  | 369  | 365  |
| 9        | 213  | 313  | 316  | 316  | 322  | 326  | 330  | 330  | 327   | 322  | 321  | 316  |
| 10       | 269  | 270  | 272  | 272  | 279  | 282  | 286  | 287  | 284   | 279  | 277  | 273  |
| 11       | 231  | 232  | 233  | 233  | 240  | 243  | 248  | 249  | 245   | 241  | 238  | 235  |
| 12       | 197  | 199  | 199  | 200  | 206  | 209  | 213  | 214  | 211   | 206  | 204  | 201  |
| 13       | 168  | 170  | 170  | 171  | 176  | 179  | 182  | 184  | 181   | 177  | 174  | 172  |
| 14       | 143  | 145  | 145  | 146  | 150  | 153  | 156  | 157  | 154   | 151  | 148  | 147  |
| 15       | 122  | 124  | 123  | 124  | 127  | 130  | 132  | 134  | 131   | 128  | --   | 125  |
| 16       | --   | --   | --   | 106  | 108  | 110  | 113  | 114  | 112   | 109  | --   | --   |
| 17       | --   | --   | --   | 90   | 92   | 94   | 96   | 96   | --    | --   | --   | --   |
| 18       | --   | --   | --   | --   | --   | --   | 81   | --   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 80   | 81   | 80   | 78   | 79  | 81   | 83   | 83   | 83    | 80   | 78   | 81   |
| 0.5      | 60   | 66   | 68   | 72   | 71  | 74   | 63   | 67   | 64    | 64   | 54   | 61   |
| 1.0      | 51   | 59   | 58   | 60   | 52  | 44   | 32   | 38   | 42    | 47   | 43   | 52   |
| 1.5      | 46   | 52   | 49   | 52   | 36  | 27   | 25   | 30   | 29    | 38   | 38   | 47   |
| 2.0      | 40   | 48   | 43   | 42   | 30  | 23   | 25   | 31   | 28    | 34   | 31   | 43   |
| 2.5      | 37   | 44   | 39   | 39   | 28  | 24   | 27   | 34   | 28    | 33   | 28   | 39   |
| 3.0      | 35   | 42   | 34   | 39   | 27  | 25   | 29   | 36   | 29    | 38   | 26   | 38   |
| 4        | 38   | 42   | 32   | 36   | 27  | 26   | 33   | 36   | 24    | 38   | 28   | 39   |
| 5        | 44   | 47   | 43   | 38   | 30  | 32   | 36   | 36   | --    | 41   | 35   | 45   |
| 6        | 51   | 52   | 47   | 45   | 40  | 30   | 41   | 33   | --    | 49   | 42   | 52   |
| 7        | 52   | 57   | 55   | 47   | 42  | --   | 35   | 36   | --    | 52   | 51   | 59   |

Number of Observations (Relative Humidity)

|         |    |     |     |     |     |     |     |    |    |     |     |     |
|---------|----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|
| Surface | 89 | 107 | 114 | 113 | 118 | 117 | 121 | 89 | 85 | 119 | 100 | 113 |
| 5       | 57 | 47  | 60  | 75  | 84  | 46  | 96  | 67 | -- | 47  | 48  | 62  |
| 7       | 32 | 39  | 34  | 45  | 29  | --  | 43  | 28 | -- | 25  | 33  | 30  |

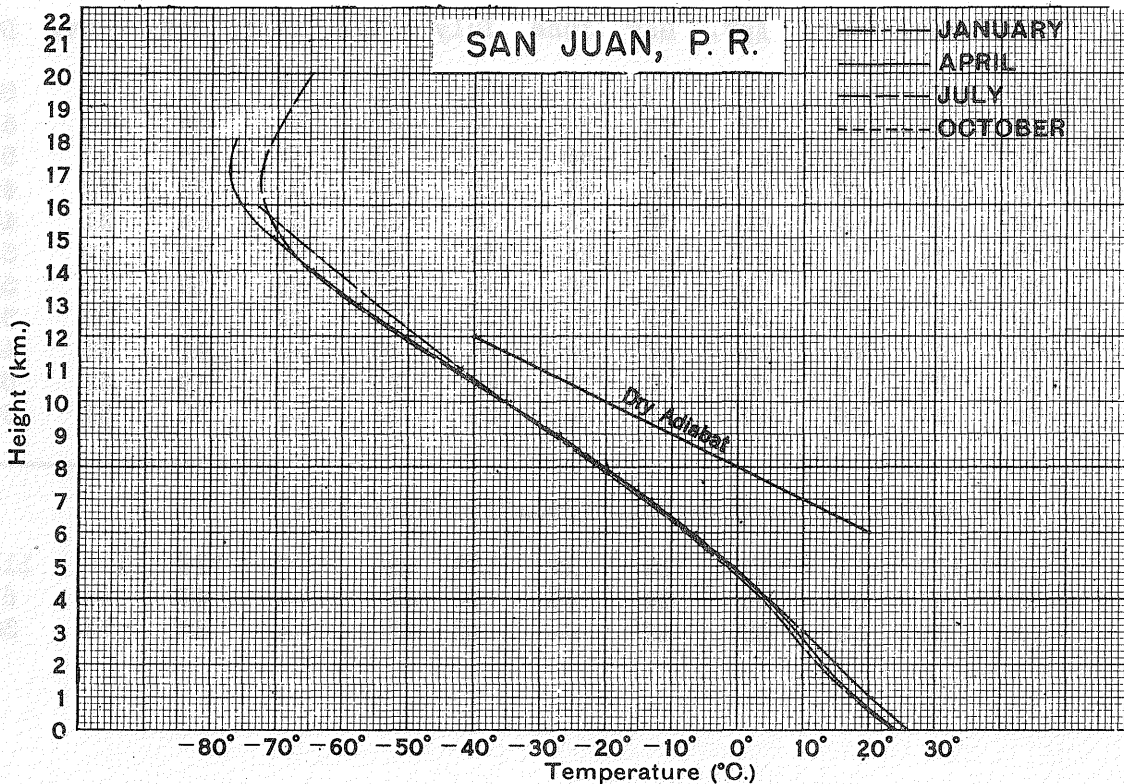
AVERAGE TEMPERATURES °C.

San Juan, P. R.  
Elevation: 15 meters, m.s.l.

Period of Record: August-October 1939  
February 1941-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 23.5  | 23.2  | 23.5  | 24.1  | 24.9  | 25.6  | 25.9  | 25.8  | 25.5  | 25.4  | 25.1  | 24.5  |
| 0.5        | 20.8  | 20.4  | 21.0  | 21.5  | 22.5  | 23.1  | 23.5  | 23.5  | 23.4  | 23.1  | 22.4  | 21.6  |
| 1.0        | 17.4  | 17.0  | 17.6  | 18.3  | 19.5  | 20.2  | 20.4  | 20.5  | 20.6  | 20.2  | 19.2  | 18.3  |
| 1.5        | 14.5  | 14.3  | 14.6  | 15.4  | 16.7  | 17.4  | 17.5  | 18.0  | 17.8  | 17.4  | 16.4  | 15.2  |
| 2.0        | 12.0  | 12.2  | 12.3  | 13.0  | 14.4  | 15.0  | 15.1  | 15.2  | 15.2  | 14.9  | 13.9  | 12.7  |
| 2.5        | 10.0  | 10.3  | 11.1  | 11.2  | 12.1  | 12.7  | 12.8  | 12.9  | 13.0  | 12.4  | 12.1  | 11.1  |
| 3.0        | 8.1   | 8.3   | 9.2   | 9.1   | 9.5   | 10.2  | 10.1  | 10.3  | 10.4  | 10.0  | 9.7   | 9.1   |
| 4          | 5.8   | 3.7   | 4.7   | 4.1   | 4.2   | 4.3   | 4.6   | 4.7   | 4.9   | 4.4   | 4.2   | 4.2   |
| 5          | -1.7  | -1.8  | -0.6  | -1.3  | -1.2  | -1.5  | -0.8  | -0.8  | -0.7  | -1.2  | -1.1  | -1.2  |
| 6          | -7.8  | -7.6  | -6.5  | -7.3  | -7.0  | -7.5  | -6.4  | -6.5  | -6.7  | -7.0  | -7.1  | -7.0  |
| 7          | -14.5 | -14.4 | -13.2 | -13.6 | -13.4 | -13.7 | -13.0 | -13.1 | -13.1 | -13.2 | -13.6 | -13.7 |
| 8          | -21.3 | -21.5 | -20.4 | -20.6 | -20.2 | -20.5 | -20.1 | -20.2 | -19.9 | -19.7 | -20.6 | -20.5 |
| 9          | -28.3 | -29.0 | -27.6 | -27.9 | -27.1 | -27.7 | -27.6 | -27.6 | -27.0 | -26.8 | -27.6 | -27.8 |
| 10         | -35.2 | -36.4 | -34.9 | -35.4 | -34.6 | -35.4 | -35.4 | -35.4 | -34.6 | -34.4 | -35.0 | -35.2 |
| 11         | -42.4 | -43.1 | -42.3 | -43.0 | -42.4 | -43.5 | -43.5 | -43.3 | -42.2 | -42.0 | -42.9 | -42.5 |
| 12         | -48.9 | -49.2 | -49.9 | -50.3 | -50.4 | -51.6 | -51.5 | -51.0 | -49.9 | -49.7 | -50.7 | -50.0 |
| 13         | -55.3 | -56.3 | -57.7 | -57.6 | -58.3 | -59.2 | -59.1 | -58.2 | -57.5 | -57.3 | -59.2 | -56.9 |
| 14         | -61.2 | -63.5 | -65.6 | -64.6 | -65.1 | -65.8 | -65.0 | -64.4 | -64.1 | -64.4 | -65.5 | -63.8 |
| 15         | -67.4 | -69.9 | -72.9 | -70.5 | -71.1 | -70.7 | -69.1 | -69.4 | -69.4 | -70.5 | -71.8 | -70.1 |
| 16         | -73.0 | --    | -78.3 | -75.6 | -74.9 | -73.0 | -72.0 | -72.4 | -72.2 | -74.6 | -76.8 | -75.2 |
| 17         | --    | --    | -80.6 | -77.4 | -75.4 | -73.1 | -72.9 | -72.8 | -72.7 | -76.0 | -78.7 | -78.9 |
| 18         | --    | --    | -79.1 | -76.3 | -73.9 | -72.5 | -70.9 | -70.6 | -71.8 | -74.2 | -78.2 | -79.2 |
| 19         | --    | --    | -76.6 | --    | -70.7 | -67.5 | -67.8 | -68.4 | -69.8 | -71.2 | -76.2 | --    |
| 20         | --    | --    | --    | --    | --    | -64.1 | -64.5 | -66.7 | -68.7 | -68.9 | --    | --    |
| 21         | --    | --    | --    | --    | --    | --    | --    | --    | -66.4 | -65.2 | --    | --    |

|         | Number of Observations |    |    |    |    |    |    |     |     |     |    |    |
|---------|------------------------|----|----|----|----|----|----|-----|-----|-----|----|----|
| Surface | 62                     | 83 | 92 | 86 | 91 | 85 | 92 | 119 | 119 | 119 | 90 | 87 |
| 5       | 56                     | 80 | 79 | 81 | 86 | 81 | 87 | 115 | 112 | 116 | 81 | 79 |
| 10      | 45                     | 64 | 61 | 71 | 75 | 79 | 84 | 107 | 104 | 108 | 78 | 68 |
| 15      | 28                     | 25 | 47 | 46 | 60 | 66 | 76 | 96  | 93  | 100 | 62 | 55 |
| 18      | --                     | -- | 33 | 29 | 39 | 47 | 58 | 74  | 76  | 83  | 42 | 35 |



AVERAGE PRESSURES (Mbs.)

Elevation: 15 meters, m.s.l.

SAN JUAN, P.R.

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| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1016 | 1014 | 1014 | 1014 | 1014 | 1015 | 1016 | 1014 | 1012  | 1011 | 1011 | 1014 |
| 0.5      | 961  | 959  | 960  | 959  | 960  | 961  | 962  | 960  | 959   | 957  | 957  | 960  |
| 1.0      | 907  | 905  | 906  | 905  | 906  | 907  | 909  | 906  | 905   | 904  | 904  | 906  |
| 1.5      | 856  | 854  | 855  | 854  | 855  | 857  | 858  | 856  | 855   | 853  | 853  | 855  |
| 2.0      | 806  | 805  | 805  | 805  | 806  | 807  | 808  | 806  | 805   | 804  | 804  | 806  |
| 2.5      | 759  | 758  | 759  | 758  | 759  | 761  | 762  | 760  | 759   | 758  | 757  | 759  |
| 3.0      | 715  | 713  | 714  | 714  | 715  | 717  | 718  | 716  | 715   | 714  | 713  | 715  |
| 4        | 633  | 631  | 633  | 632  | 634  | 635  | 636  | 634  | 634   | 632  | 632  | 633  |
| 5        | 559  | 558  | 559  | 559  | 560  | 561  | 562  | 561  | 560   | 559  | 558  | 559  |
| 6        | 492  | 491  | 493  | 492  | 493  | 495  | 495  | 494  | 494   | 492  | 492  | 493  |
| 7        | 432  | 431  | 433  | 432  | 434  | 435  | 435  | 434  | 434   | 433  | 432  | 433  |
| 8        | 379  | 378  | 379  | 378  | 379  | 381  | 381  | 380  | 380   | 379  | 378  | 379  |
| 9        | 330  | 329  | 331  | 329  | 331  | 331  | 332  | 331  | 331   | 330  | 329  | 330  |
| 10       | 287  | 286  | 287  | 286  | 287  | 288  | 288  | 287  | 288   | 287  | 286  | 287  |
| 11       | 248  | 247  | 249  | 248  | 249  | 249  | 249  | 249  | 249   | 248  | 248  | 248  |
| 12       | 214  | 213  | 214  | 213  | 214  | 214  | 215  | 214  | 214   | 214  | 213  | 214  |
| 13       | 183  | 182  | 183  | 182  | 183  | 183  | 183  | 183  | 183   | 183  | 182  | 183  |
| 14       | 157  | 155  | 156  | 155  | 156  | 156  | 156  | 156  | 156   | 156  | 155  | 156  |
| 15       | 133  | 132  | 132  | 131  | 132  | 132  | 132  | 132  | 132   | 132  | 131  | 132  |
| 16       | 113  | --   | 111  | 111  | 111  | 111  | 112  | 111  | 112   | 112  | 111  | 111  |
| 17       | --   | --   | 93   | 93   | 94   | 94   | 94   | 94   | 94    | 94   | 93   | 94   |
| 18       | --   | --   | 78   | 79   | 79   | 79   | 79   | 79   | 79    | 79   | 78   | 78   |
| 19       | --   | --   | 66   | --   | 67   | 67   | 68   | 67   | 67    | 67   | 66   | --   |
| 20       | --   | --   | --   | --   | --   | 57   | 57   | 57   | 57    | 56   | --   | --   |
| 21       | --   | --   | --   | --   | --   | --   | --   | --   | 48    | 48   | --   | --   |
| 22       | --   | --   | --   | --   | --   | --   | --   | --   | --    | 41   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 85   | 84   | 83   | 83   | 86  | 86   | 87   | 87   | 88    | 88   | 87   | 84   |
| 0.5      | 85   | 84   | 83   | 83   | 87  | 86   | 88   | 87   | 87    | 88   | 87   | 86   |
| 1.0      | 85   | 84   | 82   | 82   | 84  | 84   | 85   | 85   | 84    | 84   | 86   | 86   |
| 1.5      | 82   | 78   | 79   | 80   | 79  | 79   | 79   | 80   | 79    | 79   | 84   | 83   |
| 2.0      | 75   | 67   | 69   | 72   | 68  | 69   | 68   | 72   | 72    | 72   | 78   | 73   |
| 2.5      | 62   | 53   | 50   | 64   | 61  | 61   | 57   | 62   | 65    | 65   | 67   | 57   |
| 3.0      | 47   | 42   | 40   | 53   | 54  | 53   | 49   | 56   | 60    | 58   | 58   | 46   |
| 4        | 33   | 31   | 30   | 44   | 50  | 52   | 45   | 49   | 54    | 55   | 51   | 32   |
| 5        | 26   | 26   | 26   | 37   | 48  | 54   | 41   | 44   | 51    | 53   | 45   | 28   |
| 6        | 22   | 24   | 24   | 34   | 44  | 53   | 38   | 38   | 49    | 48   | 47   | 28   |
| 7        | 20   | 23   | 24   | 32   | 43  | 51   | 36   | 36   | 49    | 44   | 44   | 26   |
| 8        | 20   | 23   | 24   | 32   | 45  | 52   | 35   | 39   | 48    | 42   | 44   | 25   |
| 9        | 19   | 23   | 24   | 34   | 46  | 53   | 37   | 38   | 48    | 43   | 44   | 25   |
| 10       | --   | 21   | 22   | 33   | 44  | 49   | 35   | 34   | 48    | 40   | 43   | 26   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |    |    |     |     |     |    |    |
|---------|----|----|----|----|----|----|----|-----|-----|-----|----|----|
| Surface | 62 | 83 | 92 | 84 | 90 | 85 | 93 | 116 | 119 | 118 | 89 | 87 |
| 5       | 55 | 76 | 78 | 74 | 81 | 76 | 82 | 110 | 105 | 114 | 72 | 70 |
| 7       | 47 | 69 | 69 | 71 | 80 | 78 | 82 | 105 | 95  | 111 | 57 | 52 |
| 9       | 39 | 60 | 60 | 57 | 66 | 63 | 68 | 72  | 86  | 80  | 48 | 41 |

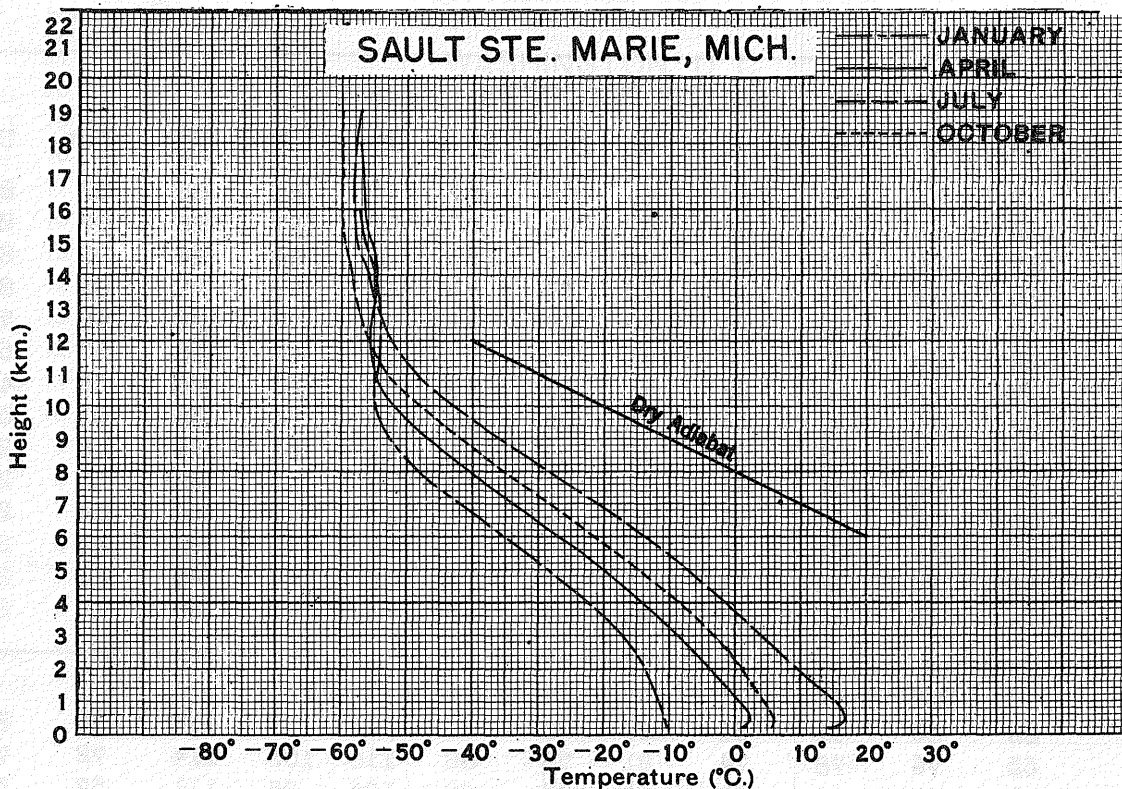
AVERAGE TEMPERATURES °C.

Sault Ste. Marie, Mich.  
Elevation: 221 meters, m.s.l.

Period of Record: July 1938-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -10.6 | -9.4  | -7.0  | 1.3   | 7.2   | 12.3  | 14.1  | 14.8  | 10.9  | 5.8   | -0.4  | -5.9  |
| 0.5        | -11.0 | -10.1 | -7.0  | 2.3   | 8.7   | 14.4  | 16.9  | 16.2  | 11.4  | 6.0   | -1.3  | -6.8  |
| 1.0        | -11.9 | -11.4 | -8.7  | 0.8   | 7.8   | 12.9  | 15.5  | 14.6  | 9.6   | 4.4   | -3.2  | -8.4  |
| 1.5        | -12.7 | -12.3 | -10.1 | -1.8  | 5.5   | 10.9  | 12.3  | 11.7  | 7.3   | 2.6   | -4.8  | -9.1  |
| 2.0        | -13.9 | -13.4 | -11.7 | -4.1  | 2.9   | 3.3   | 9.2   | 9.0   | 5.1   | 1.1   | -6.4  | -10.5 |
| 2.5        | -15.3 | -15.1 | -13.6 | -6.4  | 0.3   | 5.5   | 6.5   | 6.7   | 2.9   | -0.9  | -8.3  | -12.1 |
| 3.0        | -17.3 | -17.2 | -15.7 | -8.9  | -2.3  | 2.9   | 3.7   | 4.0   | 0.8   | -3.2  | -10.6 | -14.1 |
| 4          | -22.3 | -22.4 | -20.6 | -14.1 | -7.9  | -2.5  | -1.5  | -1.4  | -4.7  | -8.6  | -15.6 | -19.3 |
| 5          | -28.6 | -28.2 | -26.6 | -20.2 | -13.7 | -8.4  | -7.3  | -7.1  | -10.6 | -14.7 | -21.5 | -25.2 |
| 6          | -35.3 | -34.7 | -32.9 | -27.1 | -20.3 | -14.8 | -13.9 | -13.4 | -16.7 | -21.2 | -28.1 | -31.7 |
| 7          | -42.0 | -41.4 | -39.5 | -34.0 | -27.3 | -21.7 | -20.8 | -20.5 | -23.6 | -28.1 | -34.9 | -38.3 |
| 8          | -48.2 | -47.9 | -45.9 | -40.9 | -34.5 | -28.7 | -28.4 | -27.7 | -30.9 | -35.3 | -41.7 | -44.7 |
| 9          | -52.8 | -52.7 | -51.3 | -47.0 | -41.8 | -36.0 | -36.2 | -35.1 | -38.1 | -42.0 | -47.9 | -49.8 |
| 10         | -54.9 | -53.9 | -54.5 | -52.0 | -48.2 | -42.8 | -43.0 | -42.1 | -44.7 | -48.2 | -52.3 | -52.9 |
| 11         | -54.7 | -52.8 | -55.0 | -55.0 | -53.3 | -48.7 | -48.6 | -48.0 | -50.2 | -53.1 | -54.9 | -53.2 |
| 12         | -54.3 | -51.7 | -54.5 | -55.5 | -55.5 | -53.1 | -52.6 | -52.2 | -53.6 | -55.9 | -55.8 | -52.9 |
| 13         | -54.2 | -52.1 | -53.7 | -55.1 | -55.6 | -56.6 | -54.4 | -55.1 | -56.0 | -57.5 | -56.3 | -53.3 |
| 14         | -55.0 | -52.2 | -54.0 | -55.1 | -55.3 | -57.3 | -55.9 | -57.3 | -58.0 | -59.5 | -57.1 | -54.5 |
| 15         | -56.7 | -53.6 | -54.8 | -55.6 | -55.9 | -58.2 | -57.7 | -58.6 | -59.4 | -59.5 | -58.2 | -55.7 |
| 16         | -57.4 | -54.9 | -55.8 | -56.5 | -56.7 | -59.0 | -58.0 | -59.4 | -60.2 | -60.0 | -59.2 | -56.1 |
| 17         | --    | --    | -55.9 | -56.9 | -57.0 | -59.0 | -58.1 | -59.2 | -60.1 | -59.7 | -59.4 | -58.3 |
| 18         | --    | --    | --    | -57.1 | -57.3 | -58.0 | -57.8 | -58.3 | -59.2 | -60.1 | --    | --    |
| 19         | --    | --    | --    | --    | -57.0 | -57.0 | -57.0 | -57.4 | --    | -60.0 | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 155                    | 141 | 154 | 150 | 155 | 150 | 139 | 184 | 179 | 186 | 179 | 184 |
| 5       | 148                    | 138 | 150 | 143 | 148 | 143 | 134 | 176 | 167 | 170 | 172 | 180 |
| 10      | 121                    | 109 | 131 | 122 | 120 | 131 | 116 | 152 | 141 | 134 | 146 | 140 |
| 15      | 38                     | 57  | 70  | 89  | 92  | 103 | 89  | 114 | 103 | 99  | 75  | 73  |
| 18      | --                     | --  | --  | 33  | 40  | 58  | 44  | 44  | 46  | 51  | --  | --  |



AVERAGE PRESSURES (mbs.)

Elevation: 221 meters, m.s.l.

SAULT STE. MARIE, MICH.

71

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 989  | 988  | 989  | 990  | 988 | 987  | 989  | 989  | 990   | 990  | 989  | 987  |
| 0.5      | 954  | 953  | 954  | 956  | 956 | 955  | 957  | 957  | 958   | 957  | 955  | 953  |
| 1.0      | 894  | 893  | 895  | 899  | 899 | 900  | 902  | 902  | 902   | 900  | 897  | 894  |
| 1.5      | 837  | 837  | 839  | 844  | 846 | 848  | 851  | 851  | 849   | 846  | 842  | 838  |
| 2.0      | 784  | 783  | 786  | 792  | 796 | 799  | 801  | 801  | 798   | 795  | 790  | 785  |
| 2.5      | 734  | 733  | 736  | 743  | 748 | 751  | 754  | 754  | 751   | 747  | 741  | 735  |
| 3.0      | 686  | 686  | 689  | 697  | 702 | 707  | 709  | 709  | 706   | 702  | 694  | 689  |
| 4        | 600  | 600  | 602  | 612  | 618 | 624  | 626  | 626  | 623   | 617  | 609  | 603  |
| 5        | 523  | 523  | 526  | 536  | 543 | 550  | 552  | 552  | 548   | 542  | 533  | 526  |
| 6        | 454  | 454  | 457  | 467  | 475 | 482  | 484  | 485  | 480   | 474  | 464  | 458  |
| 7        | 392  | 393  | 396  | 406  | 415 | 422  | 424  | 425  | 420   | 414  | 403  | 397  |
| 8        | 338  | 338  | 341  | 351  | 359 | 368  | 369  | 370  | 365   | 359  | 349  | 342  |
| 9        | 290  | 290  | 293  | 302  | 311 | 319  | 320  | 321  | 317   | 310  | 300  | 295  |
| 10       | 248  | 248  | 250  | 260  | 268 | 276  | 277  | 278  | 274   | 267  | 257  | 252  |
| 11       | 212  | 213  | 215  | 223  | 230 | 237  | 238  | 239  | 235   | 229  | 220  | 216  |
| 12       | 182  | 182  | 183  | 190  | 196 | 203  | 205  | 205  | 202   | 196  | 188  | 185  |
| 13       | 156  | 156  | 156  | 162  | 168 | 174  | 175  | 175  | 172   | 167  | 161  | 159  |
| 14       | 134  | 134  | 134  | 139  | 143 | 149  | 150  | 150  | 147   | 143  | 137  | 136  |
| 15       | 115  | 115  | 115  | 119  | 123 | 127  | 128  | 128  | 125   | 122  | 117  | 116  |
| 16       | 98   | 98   | 98   | 102  | 105 | 108  | 110  | 109  | 107   | 104  | 100  | 99   |
| 17       | --   | --   | 84   | 87   | 89  | 93   | 94   | 93   | 91    | 88   | 85   | 84   |
| 18       | --   | --   | --   | 75   | 77  | 79   | 80   | 80   | 78    | 75   | --   | --   |
| 19       | --   | --   | --   | --   | --  | 68   | 68   | 68   | --    | 64   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 87   | 86   | 84   | 79   | 83  | 85   | 89   | 90   | 90    | 87   | 85   | 85   |
| 0.5      | 89   | 89   | 85   | 76   | 76  | 75   | 73   | 78   | 84    | 82   | 85   | 87   |
| 1.0      | 89   | 88   | 82   | 70   | 71  | 70   | 67   | 72   | 81    | 78   | 83   | 88   |
| 1.5      | 86   | 85   | 78   | 68   | 69  | 69   | 68   | 73   | 75    | 74   | 80   | 81   |
| 2.0      | 82   | 81   | 75   | 66   | 68  | 68   | 67   | 70   | 72    | 70   | 75   | 76   |
| 2.5      | 78   | 78   | 74   | 64   | 68  | 67   | 63   | 64   | 64    | 65   | 70   | 73   |
| 3.0      | 75   | 75   | 72   | 61   | 66  | 63   | 60   | 60   | 60    | 62   | 68   | 70   |
| 4        | 72   | 71   | 70   | 57   | 61  | 57   | 52   | 55   | 54    | 55   | 64   | 67   |
| 5        | 69   | 68   | 65   | 65   | 56  | 51   | 45   | 49   | 52    | 54   | 62   | 64   |
| 6        | 62   | 64   | 64   | 52   | 55  | 48   | 43   | 45   | 49    | 51   | 60   | 59   |
| 7        | 56   | --   | 59   | 49   | 53  | 45   | 42   | 42   | 47    | 49   | 58   | 54   |
| 8        | --   | --   | --   | 43   | 50  | 43   | 40   | 42   | 46    | 47   | --   | --   |
| 9        | --   | --   | --   | --   | --  | 43   | 39   | 41   | 43    | --   | --   | --   |
| 10       | --   | --   | --   | --   | --  | --   | --   | 41   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 153 | 140 | 154 | 150 | 155 | 149 | 139 | 184 | 176 | 186 | 179 | 183 |
| 5       | 123 | 122 | 126 | 132 | 140 | 139 | 128 | 171 | 159 | 165 | 164 | 169 |
| 7       | 28  | --  | 41  | 84  | 116 | 122 | 116 | 154 | 147 | 125 | 94  | 74  |
| 9       | --  | --  | --  | --  | --  | 54  | 58  | 95  | 59  | --  | --  | --  |

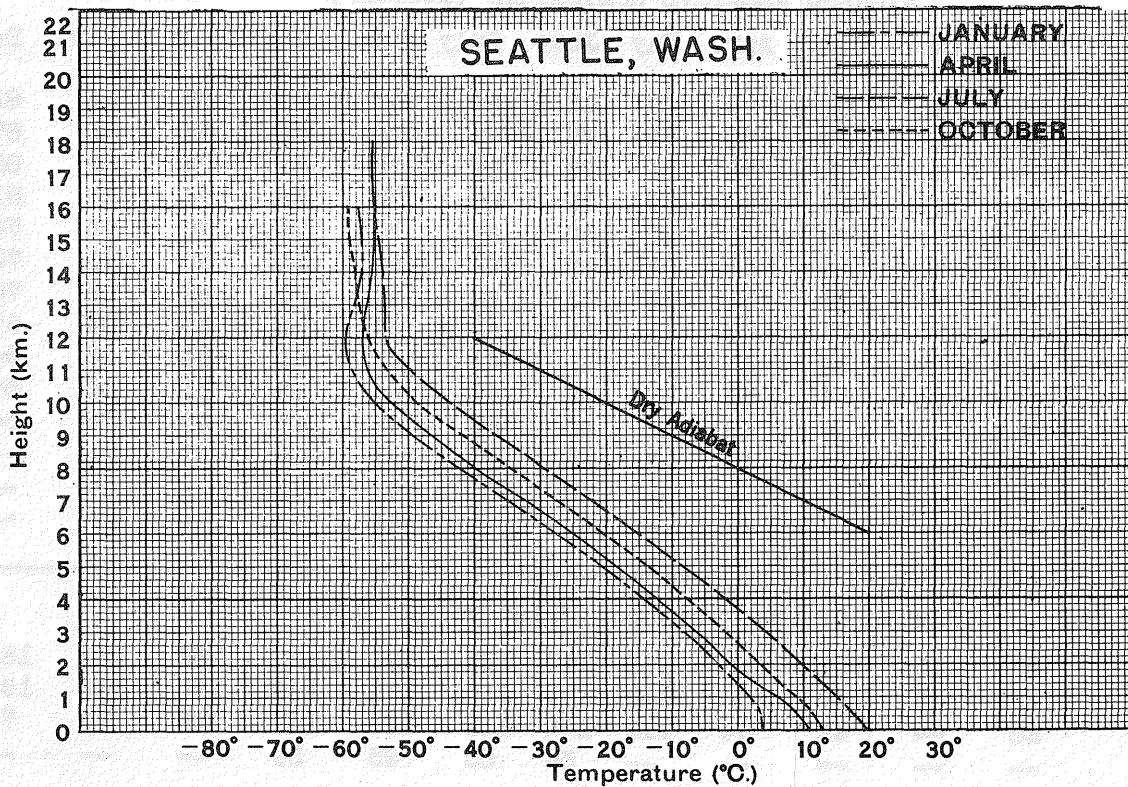
AVERAGE TEMPERATURES °C.

Seattle, Wash.  
Elevation: 22 meters, m.s.l.

Period of Record: February 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 3.6   | 6.3   | 7.9   | 10.6  | 13.2  | 16.2  | 19.7  | 19.1  | 16.3  | 12.8  | 7.8   | 6.3   |
| 0.5        | 3.5   | 5.6   | 6.2   | 8.9   | 10.7  | 13.7  | 17.8  | 17.2  | 14.9  | 11.3  | 6.7   | 4.7   |
| 1.0        | 1.8   | 2.8   | 3.2   | 5.9   | 7.6   | 11.0  | 15.0  | 14.7  | 12.8  | 8.7   | 4.7   | 2.6   |
| 1.5        | -0.5  | 0.0   | -0.2  | 2.6   | 4.2   | 7.7   | 12.3  | 12.2  | 10.3  | 5.9   | 2.2   | 0.2   |
| 2.0        | -2.8  | -2.9  | -3.3  | -1.2  | 0.8   | 4.5   | 9.7   | 9.6   | 7.9   | 3.1   | 0.3   | -2.3  |
| 2.5        | -5.5  | -5.9  | -6.1  | -3.9  | -2.1  | 1.5   | 6.9   | 6.7   | 4.8   | 0.5   | -2.8  | -5.0  |
| 3.0        | -8.5  | -8.7  | -9.0  | -6.5  | -4.9  | -1.1  | 3.8   | 4.2   | 2.0   | -2.3  | -5.6  | -7.8  |
| 4          | -14.3 | -15.1 | -15.5 | -12.4 | -10.7 | -6.7  | -2.1  | -1.3  | -3.8  | -7.8  | -11.6 | -13.9 |
| 5          | -20.4 | -21.8 | -21.4 | -18.9 | -17.0 | -12.9 | -8.4  | -7.5  | -9.9  | -14.0 | -17.8 | -20.4 |
| 6          | -27.4 | -29.1 | -28.3 | -25.7 | -23.8 | -19.8 | -15.0 | -14.3 | -16.6 | -20.7 | -24.9 | -27.0 |
| 7          | -34.7 | -36.3 | -35.3 | -32.6 | -30.6 | -26.9 | -22.1 | -21.5 | -23.9 | -27.7 | -31.3 | -33.9 |
| 8          | -42.1 | -43.7 | -42.6 | -40.0 | -37.8 | -34.0 | -29.5 | -29.1 | -31.3 | -34.8 | -38.5 | -41.9 |
| 9          | -49.2 | -50.0 | -49.8 | -47.0 | -44.6 | -41.0 | -36.7 | -36.4 | -38.7 | -41.7 | -45.4 | -48.2 |
| 10         | -55.1 | -54.8 | -55.7 | -52.7 | -50.4 | -47.1 | -43.7 | -43.6 | -46.1 | -48.4 | -51.5 | -53.0 |
| 11         | -58.7 | -57.2 | -59.0 | -56.4 | -53.8 | -50.6 | -49.9 | -49.7 | -51.9 | -53.2 | -56.4 | -56.6 |
| 12         | -59.7 | -56.1 | -59.7 | -57.1 | -54.9 | -52.1 | -53.6 | -53.0 | -55.5 | -56.3 | -58.2 | -57.6 |
| 13         | -58.3 | -55.1 | -57.9 | -56.3 | -54.7 | -52.2 | -53.8 | -54.0 | -57.7 | -57.7 | -58.6 | -56.8 |
| 14         | -57.3 | -55.2 | -56.8 | -55.7 | -54.3 | -52.7 | -53.9 | -55.2 | -58.4 | -58.4 | -59.2 | -56.6 |
| 15         | -57.2 | -56.0 | -56.6 | -55.5 | -54.5 | -53.2 | -54.7 | -56.1 | -58.6 | -59.2 | -60.2 | -57.0 |
| 16         | -57.9 | --    | -57.2 | -55.5 | -55.0 | -53.9 | -55.2 | -56.8 | -58.0 | -59.3 | -60.9 | -57.3 |
| 17         | --    | --    | -58.4 | -55.8 | -55.3 | -54.3 | -55.5 | -56.8 | -58.1 | --    | --    | -57.4 |
| 18         | --    | --    | --    | --    | -55.5 | -54.9 | -55.3 | -55.7 | --    | --    | --    | --    |

|         | Number of Observations |    |     |     |     |     |     |     |     |     |    |    |
|---------|------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| Surface | 73                     | 99 | 114 | 111 | 116 | 113 | 112 | 118 | 109 | 111 | 91 | 85 |
| 5       | 72                     | 93 | 111 | 108 | 115 | 111 | 108 | 116 | 108 | 104 | 87 | 80 |
| 10      | 63                     | 71 | 83  | 90  | 97  | 96  | 90  | 97  | 99  | 65  | 69 | 59 |
| 15      | 39                     | 31 | 44  | 50  | 48  | 58  | 58  | 58  | 53  | 34  | 44 | 38 |
| 18      | --                     | -- | --  | --  | 36  | 28  | 28  | 25  | --  | --  | -- | -- |





AVERAGE PRESSURES (Mbs.)

Elevation: 22 meters, m.s.l.

SEATTLE, WASH.

73

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1017 | 1013 | 1014 | 1012 | 1014 | 1014 | 1014 | 1013 | 1013  | 1014 | 1016 | 1014 |
| 0.5      | 959  | 956  | 957  | 956  | 958  | 959  | 960  | 959  | 958   | 958  | 959  | 956  |
| 1.0      | 902  | 899  | 900  | 900  | 902  | 904  | 905  | 904  | 903   | 902  | 902  | 900  |
| 1.5      | 847  | 845  | 846  | 846  | 849  | 851  | 853  | 852  | 851   | 848  | 848  | 845  |
| 2.0      | 796  | 794  | 795  | 795  | 798  | 800  | 803  | 803  | 801   | 798  | 797  | 794  |
| 2.5      | 747  | 745  | 746  | 747  | 749  | 752  | 756  | 755  | 753   | 750  | 748  | 745  |
| 3.0      | 700  | 698  | 699  | 701  | 704  | 706  | 711  | 710  | 708   | 705  | 702  | 699  |
| 4        | 615  | 613  | 614  | 616  | 619  | 622  | 628  | 627  | 625   | 621  | 617  | 614  |
| 5        | 538  | 536  | 537  | 539  | 542  | 547  | 553  | 553  | 550   | 545  | 541  | 537  |
| 6        | 469  | 467  | 468  | 471  | 474  | 479  | 485  | 485  | 482   | 477  | 472  | 468  |
| 7        | 408  | 405  | 407  | 409  | 413  | 418  | 425  | 425  | 421   | 416  | 411  | 407  |
| 8        | 353  | 350  | 351  | 354  | 357  | 363  | 370  | 370  | 367   | 362  | 356  | 352  |
| 9        | 303  | 301  | 302  | 305  | 309  | 314  | 320  | 321  | 317   | 312  | 307  | 303  |
| 10       | 261  | 258  | 259  | 263  | 265  | 270  | 275  | 277  | 274   | 269  | 264  | 260  |
| 11       | 223  | 221  | 221  | 225  | 228  | 232  | 238  | 239  | 235   | 231  | 226  | 223  |
| 12       | 190  | 189  | 189  | 192  | 195  | 199  | 204  | 205  | 202   | 197  | 193  | 191  |
| 13       | 162  | 162  | 161  | 164  | 167  | 171  | 175  | 175  | 173   | 168  | 165  | 163  |
| 14       | 139  | 139  | 138  | 140  | 143  | 147  | 150  | 150  | 148   | 144  | 141  | 140  |
| 15       | 119  | 119  | 118  | 120  | 123  | 126  | 129  | 129  | 126   | 123  | 120  | 120  |
| 16       | 101  | --   | 102  | 103  | 106  | 108  | 111  | 111  | 108   | 105  | 103  | 103  |
| 17       | --   | --   | 87   | 88   | 91   | 93   | 95   | 94   | 92    | --   | --   | 88   |
| 18       | --   | --   | --   | --   | 78   | 79   | 81   | 80   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 82   | 83   | 78   | 76   | 72  | 69   | 67   | 69   | 75    | 83   | 85   | 84   |
| 0.5      | 72   | 71   | 71   | 68   | 68  | 64   | 65   | 65   | 67    | 77   | 74   | 77   |
| 1.0      | 67   | 71   | 70   | 67   | 69  | 63   | 64   | 63   | 64    | 75   | 68   | 72   |
| 1.5      | 66   | 70   | 71   | 68   | 72  | 65   | 65   | 61   | 64    | 73   | 67   | 69   |
| 2.0      | 62   | 68   | 70   | 71   | 73  | 68   | 60   | 60   | 61    | 70   | 63   | 67   |
| 2.5      | 58   | 66   | 68   | 69   | 71  | 67   | 56   | 59   | 59    | 64   | 60   | 64   |
| 3.0      | 56   | 64   | 64   | 65   | 66  | 61   | 53   | 54   | 57    | 62   | 58   | 62   |
| 4        | 59   | 62   | 63   | 61   | 60  | 56   | 46   | 45   | 50    | 56   | 60   | 63   |
| 5        | 59   | 60   | 65   | 64   | 59  | 55   | 43   | 42   | 46    | 57   | 65   | 64   |
| 6        | 60   | 61   | 66   | 64   | 64  | 60   | 45   | 41   | 48    | 57   | 68   | 64   |
| 7        | 61   | 61   | 68   | 67   | 69  | 64   | 49   | 43   | 51    | 59   | 71   | 66   |
| 8        | --   | --   | --   | --   | 65  | 66   | 48   | 39   | 53    | 58   | --   | --   |
| 9        | --   | --   | --   | --   | --  | --   | 52   | 38   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |    |    |     |     |     |     |     |     |     |     |    |    |
|---------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| Surface | 72 | 98 | 111 | 111 | 116 | 113 | 112 | 118 | 106 | 108 | 89 | 85 |
| 5       | 61 | 80 | 101 | 96  | 99  | 95  | 90  | 104 | 89  | 85  | 72 | 71 |
| 7       | 42 | 55 | 74  | 76  | 87  | 89  | 84  | 94  | 78  | 70  | 64 | 51 |
| 9       | -- | -- | --  | --  | --  | --  | 31  | 36  | --  | --  | -- | -- |

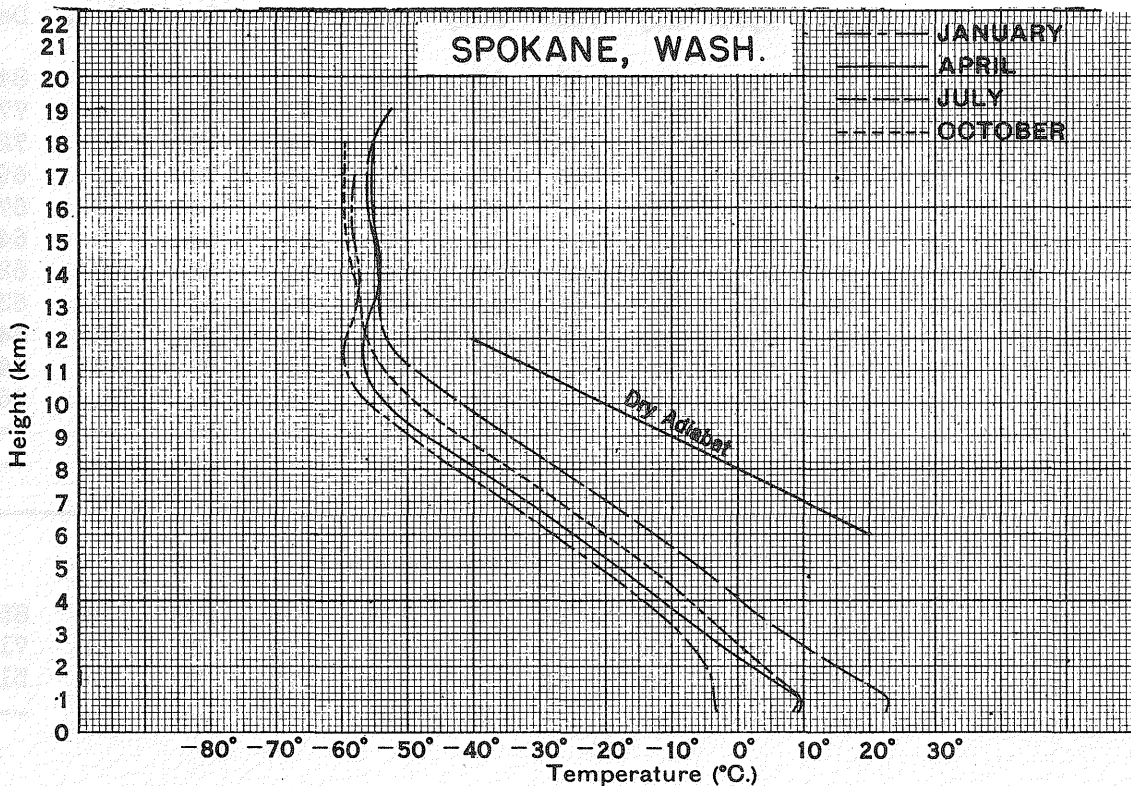
AVERAGE TEMPERATURES °C.

Spokane, Wash.  
Elevation: 598 meters, m.s.l.

Period of Record: September 1939-July 1940  
December 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | --3.3 | 0.3   | 3.8   | 9.2   | 12.2  | 16.4  | 22.5  | 20.9  | 14.5  | 8.4   | 2.5   | 0.4   |
| 1.0        | -3.5  | -0.1  | 4.1   | 9.4   | 11.8  | 16.0  | 22.8  | 21.1  | 15.9  | 9.4   | 3.5   | 0.1   |
| 1.5        | -3.7  | -1.6  | 0.8   | 5.9   | 8.4   | 12.5  | 19.2  | 17.4  | 12.5  | 6.9   | 2.1   | -1.3  |
| 2.0        | -4.6  | -4.2  | -2.7  | 2.1   | 4.6   | 8.8   | 15.1  | 13.3  | 8.9   | 3.9   | 0.0   | -3.5  |
| 2.5        | -6.6  | -6.8  | -6.1  | -1.6  | 0.8   | 5.0   | 10.9  | 9.4   | 5.4   | 0.7   | -2.5  | -5.9  |
| 3.0        | -8.9  | -9.7  | -9.3  | -5.0  | -2.8  | 1.6   | 6.9   | 6.2   | 2.3   | -2.0  | -5.1  | -8.6  |
| 4          | -14.7 | -15.7 | -15.4 | -11.4 | -9.1  | -4.6  | 0.3   | -0.2  | -3.2  | -7.6  | -10.9 | -14.2 |
| 5          | -21.0 | -22.2 | -21.6 | -17.9 | -15.6 | -10.8 | -6.1  | -6.6  | -9.5  | -13.6 | -17.2 | -20.8 |
| 6          | -27.9 | -29.4 | -29.3 | -24.8 | -22.6 | -17.6 | -12.7 | -13.3 | -16.3 | -20.1 | -23.7 | -27.3 |
| 7          | -35.2 | -36.9 | -35.5 | -32.3 | -29.8 | -24.5 | -19.9 | -20.5 | -23.4 | -27.3 | -30.8 | -34.2 |
| 8          | -42.8 | -44.1 | -43.7 | -39.8 | -37.2 | -31.9 | -27.1 | -27.9 | -30.7 | -34.8 | -37.9 | -41.5 |
| 9          | -49.9 | -50.1 | -49.4 | -47.0 | -44.2 | -39.2 | -34.6 | -35.4 | -38.1 | -42.0 | -45.1 | -47.6 |
| 10         | -56.0 | -54.7 | -55.4 | -53.2 | -49.6 | -45.9 | -42.0 | -42.5 | -45.3 | -48.5 | -51.6 | -52.6 |
| 11         | -59.5 | -56.5 | -58.7 | -56.4 | -53.5 | -51.2 | -48.7 | -48.4 | -51.4 | -53.5 | -55.9 | -55.3 |
| 12         | -59.3 | -54.9 | -58.6 | -56.6 | -55.2 | -52.9 | -53.2 | -51.5 | -54.9 | -56.1 | -58.0 | -55.2 |
| 13         | -57.7 | -53.5 | -56.8 | -55.0 | -54.6 | -52.7 | -54.2 | -52.7 | -56.3 | -57.2 | -58.5 | -54.1 |
| 14         | -57.4 | -53.8 | -56.3 | -54.3 | -53.9 | -52.5 | -54.3 | -54.2 | -57.1 | -58.3 | -58.5 | -54.5 |
| 15         | -58.1 | -54.6 | -56.3 | -54.7 | -53.9 | -53.2 | -55.1 | -55.6 | -58.0 | -59.4 | -59.1 | -55.6 |
| 16         | -58.5 | -55.5 | -56.4 | -55.0 | -54.4 | -54.3 | -56.0 | -56.5 | -58.5 | -59.6 | -59.7 | -55.8 |
| 17         | -58.1 | -56.1 | -56.9 | -55.5 | -54.4 | -54.3 | -56.2 | -56.7 | -58.4 | -59.8 | -59.7 | -56.9 |
| 18         | --    | --    | -57.0 | -55.1 | -54.6 | -55.0 | -55.3 | -55.8 | -57.7 | -59.6 | -60.0 | --    |
| 19         | --    | --    | --    | --    | --    | -54.4 | -52.3 | -53.7 | --    | --    | --    | --    |

|         | Number of Observations |     |     |     |     |     |     |    |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 124                    | 110 | 124 | 120 | 124 | 119 | 104 | 91 | 120 | 122 | 117 | 138 |
| 5       | 119                    | 107 | 119 | 118 | 118 | 113 | 104 | 88 | 116 | 119 | 110 | 127 |
| 10      | 107                    | 100 | 109 | 106 | 100 | 107 | 94  | 80 | 109 | 112 | 99  | 106 |
| 15      | 71                     | 69  | 87  | 79  | 65  | 87  | 77  | 63 | 93  | 87  | 72  | 70  |
| 18      | --                     | --  | 35  | 29  | 27  | 40  | 50  | 40 | 50  | 37  | 28  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 598 meters, m.s.l.

SPOKANE, WASH.

75

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 950  | 946  | 945  | 943  | 944 | 944  | 944  | 943  | 945   | 947  | 949  | 946  |
| 1.0      | 903  | 899  | 900  | 898  | 900 | 900  | 902  | 901  | 901   | 902  | 904  | 900  |
| 1.5      | 847  | 845  | 846  | 845  | 847 | 849  | 851  | 850  | 849   | 849  | 849  | 845  |
| 2.0      | 795  | 793  | 794  | 795  | 797 | 799  | 802  | 801  | 800   | 798  | 798  | 794  |
| 2.5      | 746  | 745  | 746  | 747  | 749 | 752  | 756  | 754  | 753   | 750  | 749  | 745  |
| 3.0      | 700  | 698  | 699  | 701  | 704 | 707  | 712  | 710  | 708   | 705  | 703  | 698  |
| 4        | 614  | 612  | 614  | 616  | 620 | 624  | 629  | 628  | 625   | 621  | 619  | 613  |
| 5        | 537  | 536  | 537  | 541  | 544 | 549  | 555  | 553  | 550   | 546  | 542  | 536  |
| 6        | 468  | 467  | 468  | 472  | 475 | 481  | 488  | 486  | 482   | 478  | 474  | 468  |
| 7        | 406  | 405  | 406  | 410  | 414 | 420  | 427  | 426  | 422   | 416  | 412  | 407  |
| 8        | 351  | 349  | 351  | 355  | 359 | 365  | 372  | 371  | 367   | 361  | 357  | 352  |
| 9        | 302  | 300  | 302  | 306  | 310 | 316  | 323  | 321  | 318   | 312  | 308  | 303  |
| 10       | 259  | 257  | 259  | 262  | 267 | 273  | 280  | 278  | 274   | 269  | 265  | 259  |
| 11       | 221  | 220  | 221  | 225  | 229 | 235  | 241  | 239  | 236   | 231  | 227  | 222  |
| 12       | 188  | 188  | 189  | 192  | 196 | 201  | 206  | 205  | 202   | 197  | 193  | 189  |
| 13       | 161  | 161  | 161  | 164  | 167 | 172  | 176  | 176  | 173   | 169  | 165  | 162  |
| 14       | 137  | 137  | 138  | 140  | 143 | 147  | 151  | 151  | 147   | 144  | 141  | 138  |
| 15       | 117  | 118  | 117  | 120  | 122 | 126  | 129  | 129  | 126   | 123  | 120  | 119  |
| 16       | 101  | 101  | 100  | 102  | 105 | 109  | 111  | 111  | 108   | 105  | 102  | 101  |
| 17       | 86   | 86   | 86   | 87   | 90  | 93   | 94   | 94   | 92    | 89   | 87   | 87   |
| 18       | --   | --   | 74   | 75   | 77  | 79   | 81   | 81   | 78    | 76   | 74   | --   |
| 19       | --   | --   | --   | --   | --  | 68   | 69   | 67   | --    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 87   | 87   | 73   | 70   | 67  | 60   | 45   | 46   | 57    | 77   | 88   | 90   |
| 1.0      | 84   | 82   | 64   | 60   | 59  | 53   | 40   | 41   | 48    | 66   | 76   | 86   |
| 1.5      | 78   | 77   | 62   | 59   | 59  | 54   | 39   | 43   | 49    | 63   | 67   | 78   |
| 2.0      | 72   | 73   | 62   | 61   | 62  | 58   | 43   | 47   | 51    | 62   | 60   | 72   |
| 2.5      | 69   | 70   | 62   | 63   | 65  | 63   | 46   | 52   | 55    | 63   | 59   | 70   |
| 3.0      | 65   | 67   | 63   | 64   | 66  | 65   | 49   | 51   | 56    | 63   | 58   | 67   |
| 4        | 62   | 63   | 59   | 62   | 61  | 58   | 48   | 47   | 52    | 56   | 55   | 62   |
| 5        | 58   | 59   | 56   | 62   | 56  | 53   | 50   | 44   | 50    | 52   | 51   | 60   |
| 6        | 57   | 55   | 54   | 58   | 55  | 52   | 46   | 43   | 48    | 46   | 48   | 56   |
| 7        | 52   | 48   | 54   | 58   | 57  | 52   | 46   | 43   | 54    | 49   | 47   | 56   |
| 8        | --   | --   | --   | 51   | 56  | 54   | 45   | 43   | 52    | 47   | 52   | 65   |
| 9        | --   | --   | --   | --   | --  | 50   | 47   | 44   | 46    | 43   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |    |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| Surface | 123 | 109 | 124 | 119 | 124 | 118 | 104 | 92 | 120 | 122 | 117 | 138 |
| 5       | 116 | 106 | 116 | 105 | 118 | 112 | 85  | 85 | 116 | 117 | 107 | 120 |
| 7       | 81  | 56  | 87  | 91  | 89  | 106 | 70  | 77 | 95  | 100 | 95  | 86  |
| 9       | --  | --  | --  | --  | --  | 49  | 49  | 35 | 47  | 36  | --  | --  |

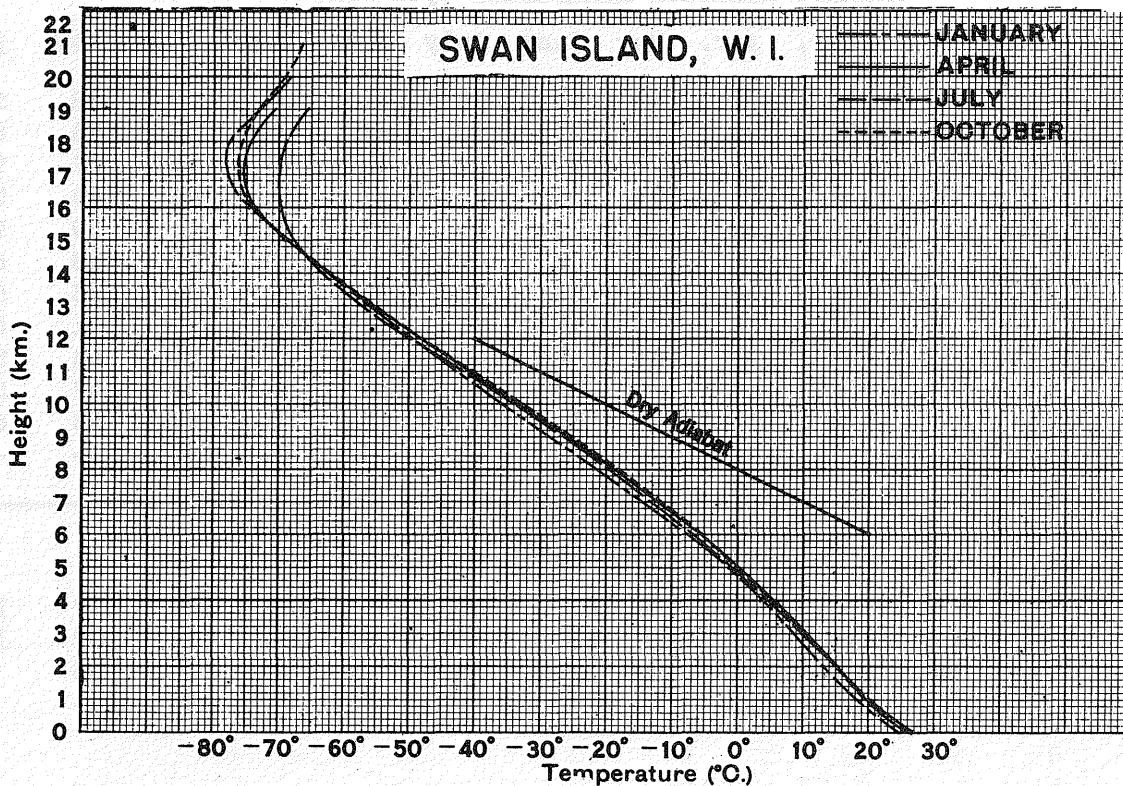
AVERAGE TEMPERATURES °C.

Swan Island, W. I.  
Elevation: 10 meters, m.s.l.

Period of Record: July-November 1939  
September 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | 24.7  | 24.5  | 25.2  | 26.1  | 26.4  | 27.1  | 26.9  | 25.0  | 27.0  | 26.6  | 25.8  | 25.5  |
| 0.5        | 21.6  | 21.3  | 21.6  | 22.6  | 23.2  | 23.6  | 23.4  | 23.3  | 23.7  | 23.6  | 22.8  | 22.5  |
| 1.0        | 18.3  | 18.1  | 18.6  | 19.8  | 20.2  | 20.4  | 20.4  | 20.4  | 20.9  | 20.5  | 19.6  | 19.4  |
| 1.5        | 15.5  | 15.4  | 16.2  | 17.5  | 17.5  | 17.5  | 17.6  | 17.4  | 18.2  | 17.6  | 16.7  | 16.5  |
| 2.0        | 12.9  | 13.0  | 14.1  | 15.1  | 14.9  | 15.3  | 15.1  | 14.7  | 15.5  | 14.9  | 14.1  | 14.0  |
| 2.5        | 10.9  | 11.3  | 11.9  | 12.7  | 12.6  | 12.9  | 12.6  | 12.2  | 12.9  | 12.5  | 11.7  | 11.9  |
| 3.0        | 8.6   | 9.3   | 9.7   | 10.6  | 10.0  | 10.2  | 9.9   | 8.6   | 10.2  | 10.0  | 9.7   | 9.6   |
| 4          | 4.0   | 4.8   | 5.3   | 5.4   | 4.8   | 4.3   | 4.2   | 3.9   | 4.7   | 5.0   | 5.0   | 4.6   |
| 5          | -1.2  | -0.3  | -0.2  | 0.0   | -0.5  | -1.5  | -1.3  | -1.9  | -0.8  | -0.3  | -0.1  | -0.9  |
| 6          | -7.7  | -6.5  | -6.6  | -5.7  | -6.1  | -7.4  | -7.3  | -7.8  | -6.5  | -5.7  | -5.8  | -7.0  |
| 7          | -14.8 | -13.3 | -12.9 | -12.5 | -12.3 | -13.5 | -13.5 | -13.9 | -12.3 | -11.7 | -12.3 | -13.5 |
| 8          | -21.3 | -20.1 | -19.7 | -18.9 | -18.9 | -19.6 | -19.8 | -20.3 | -18.6 | -18.3 | -18.9 | -20.0 |
| 9          | -28.5 | -27.5 | -26.8 | -25.8 | -25.9 | -26.5 | -26.7 | -27.3 | -25.4 | -25.3 | -25.7 | -27.2 |
| 10         | -35.6 | -35.0 | -34.0 | -33.2 | -33.3 | -34.1 | -34.2 | -34.9 | -32.9 | -32.6 | -33.2 | -34.6 |
| 11         | -43.0 | -42.4 | -41.6 | -40.6 | -41.1 | -42.0 | -41.8 | -42.8 | -40.8 | -40.3 | -40.9 | -42.1 |
| 12         | -49.8 | -49.5 | -48.9 | -48.2 | -48.6 | -49.9 | -49.7 | -50.8 | -48.6 | -48.0 | -48.5 | -49.2 |
| 13         | -56.4 | -56.4 | -56.3 | -55.5 | -56.9 | -57.8 | -57.1 | -58.6 | -56.4 | -55.7 | -56.1 | -56.1 |
| 14         | -62.7 | -63.4 | -63.4 | -62.2 | -65.0 | -63.5 | -63.0 | -65.1 | -62.6 | -62.5 | -62.0 | -61.4 |
| 15         | -68.8 | -70.2 | -69.9 | -68.7 | -72.0 | -68.9 | -67.8 | -70.1 | -68.6 | -69.2 | -68.0 | -66.7 |
| 16         | -74.3 | -76.3 | -75.1 | -73.6 | -77.4 | -72.5 | -69.7 | -72.5 | -72.3 | -74.2 | -72.2 | -70.9 |
| 17         | -78.0 | -79.4 | -78.7 | -75.9 | -75.3 | -72.7 | -70.1 | -72.5 | -73.4 | -76.4 | -75.0 | -74.2 |
| 18         | -77.7 | -79.4 | -77.2 | -74.8 | --    | --    | -69.0 | -71.0 | -72.1 | -75.9 | -76.2 | -75.3 |
| 19         | -73.0 | -76.6 | -73.2 | -70.6 | --    | --    | -65.6 | -68.7 | -69.6 | -73.1 | -73.7 | -72.7 |
| 20         | -68.3 | --    | --    | --    | --    | --    | --    | -67.4 | -67.2 | -69.1 | -70.2 | --    |
| 21         | --    | --    | --    | --    | --    | --    | --    | --    | -64.5 | -66.4 | --    | --    |

|         | Number of Observations |    |    |    |    |    |     |     |     |     |     |     |
|---------|------------------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| Surface | 91                     | 84 | 80 | 53 | 66 | 98 | 102 | 107 | 144 | 127 | 100 | 107 |
| 5       | 87                     | 81 | 76 | 51 | 64 | 85 | 99  | 103 | 137 | 124 | 98  | 99  |
| 10      | 80                     | 77 | 74 | 48 | 58 | 77 | 83  | 100 | 131 | 120 | 92  | 92  |
| 15      | 69                     | 73 | 59 | 43 | 52 | 34 | 44  | 65  | 89  | 96  | 60  | 59  |
| 18      | 56                     | 53 | 38 | 34 | -- | -- | 34  | 48  | 71  | 79  | 46  | 45  |



AVERAGE PRESSURES (Mbs.)

Elevation: 10 meters, m.s.l.

SWAN ISLAND, R. I.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1015 | 1014 | 1015 | 1012 | 1011 | 1012 | 1014 | 1012 | 1011  | 1011 | 1012 | 1013 |
| 0.5      | 960  | 959  | 958  | 957  | 956  | 958  | 959  | 958  | 956   | 956  | 957  | 958  |
| 1.0      | 906  | 905  | 904  | 903  | 903  | 905  | 906  | 904  | 903   | 903  | 904  | 905  |
| 1.5      | 854  | 854  | 853  | 852  | 852  | 854  | 855  | 854  | 852   | 852  | 853  | 854  |
| 2.0      | 805  | 804  | 804  | 804  | 803  | 805  | 806  | 805  | 804   | 804  | 804  | 804  |
| 2.5      | 758  | 757  | 758  | 757  | 757  | 759  | 759  | 758  | 757   | 757  | 757  | 758  |
| 3.0      | 714  | 713  | 713  | 713  | 713  | 715  | 715  | 714  | 714   | 713  | 713  | 714  |
| 4        | 633  | 632  | 632  | 632  | 632  | 633  | 633  | 632  | 632   | 632  | 632  | 633  |
| 5        | 559  | 558  | 559  | 559  | 559  | 559  | 560  | 559  | 559   | 559  | 559  | 559  |
| 6        | 492  | 492  | 492  | 493  | 492  | 493  | 493  | 492  | 493   | 492  | 492  | 493  |
| 7        | 432  | 433  | 433  | 433  | 433  | 433  | 433  | 432  | 433   | 433  | 433  | 433  |
| 8        | 378  | 378  | 379  | 379  | 379  | 379  | 379  | 378  | 379   | 379  | 379  | 379  |
| 9        | 329  | 329  | 330  | 331  | 330  | 330  | 330  | 329  | 330   | 330  | 330  | 330  |
| 10       | 286  | 287  | 287  | 288  | 287  | 287  | 287  | 286  | 287   | 288  | 287  | 287  |
| 11       | 247  | 248  | 248  | 249  | 249  | 248  | 248  | 247  | 249   | 249  | 249  | 248  |
| 12       | 213  | 213  | 214  | 215  | 214  | 214  | 213  | 213  | 214   | 215  | 214  | 214  |
| 13       | 182  | 183  | 183  | 184  | 184  | 183  | 183  | 182  | 184   | 184  | 184  | 183  |
| 14       | 155  | 155  | 156  | 157  | 156  | 156  | 156  | 155  | 157   | 157  | 157  | 156  |
| 15       | 132  | 132  | 133  | 133  | 132  | 133  | 132  | 131  | 133   | 133  | 133  | 133  |
| 16       | 111  | 111  | 112  | 112  | --   | 112  | 112  | 111  | 112   | 113  | 113  | 113  |
| 17       | 94   | 93   | 94   | 95   | --   | --   | 95   | 93   | 95    | 95   | 95   | 95   |
| 18       | 78   | 78   | 79   | 80   | --   | --   | 80   | 79   | 80    | 80   | 80   | 80   |
| 19       | 66   | 66   | 62   | 67   | --   | --   | 68   | 67   | 67    | 67   | 67   | 67   |
| 20       | 56   | --   | --   | --   | --   | --   | --   | 56   | 57    | 57   | 57   | 57   |
| 21       | --   | --   | --   | --   | --   | --   | --   | --   | 48    | 48   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 80   | 78   | 78   | 79   | 84  | 84   | 84   | 85   | 85    | 83   | 81   | 82   |
| 0.5      | 84   | 84   | 85   | 84   | 88  | 88   | 86   | 87   | 87    | 86   | 84   | 84   |
| 1.0      | 83   | 82   | 80   | 82   | 84  | 84   | 80   | 81   | 83    | 84   | 83   | 83   |
| 1.5      | 78   | 78   | 71   | 71   | 78  | 79   | 72   | 75   | 79    | 81   | 79   | 79   |
| 2.0      | 72   | 69   | 62   | 61   | 72  | 70   | 64   | 70   | 75    | 78   | 76   | 73   |
| 2.5      | 65   | 59   | 57   | 52   | 67  | 61   | 55   | 64   | 71    | 74   | 71   | 65   |
| 3.0      | 57   | 52   | 50   | 45   | 63  | 56   | 52   | 60   | 69    | 69   | 61   | 58   |
| 4        | 45   | 39   | 40   | 38   | 63  | 53   | 48   | 55   | 65    | 60   | 53   | 48   |
| 5        | 38   | 30   | 32   | 36   | 61  | 52   | 47   | 53   | 64    | 54   | 46   | 44   |
| 6        | 34   | 26   | 29   | 36   | 55  | 50   | 46   | 51   | 64    | 49   | 41   | 44   |
| 7        | 30   | 23   | 27   | 34   | 49  | 48   | 45   | 51   | 62    | 46   | 38   | 41   |
| 8        | 28   | 23   | 27   | 33   | 48  | 47   | 44   | 50   | 59    | 43   | 36   | 40   |
| 9        | 29   | 22   | 26   | 31   | 45  | 45   | 47   | 48   | 57    | 42   | 35   | 40   |
| 10       | 26   | 22   | 26   | --   | --  | --   | 47   | 52   | 56    | 39   | 34   | 34   |

Number of Observations (Relative Humidity)

|         |    |    |    |    |    |    |     |     |     |     |     |     |
|---------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| Surface | 91 | 84 | 80 | 53 | 66 | 87 | 103 | 106 | 144 | 128 | 100 | 108 |
| 5       | 85 | 80 | 76 | 50 | 64 | 83 | 99  | 102 | 136 | 125 | 95  | 96  |
| 7       | 81 | 76 | 76 | 48 | 59 | 78 | 89  | 102 | 131 | 121 | 93  | 82  |
| 9       | 67 | 72 | 62 | 46 | 52 | 62 | 67  | 92  | 125 | 112 | 86  | 77  |

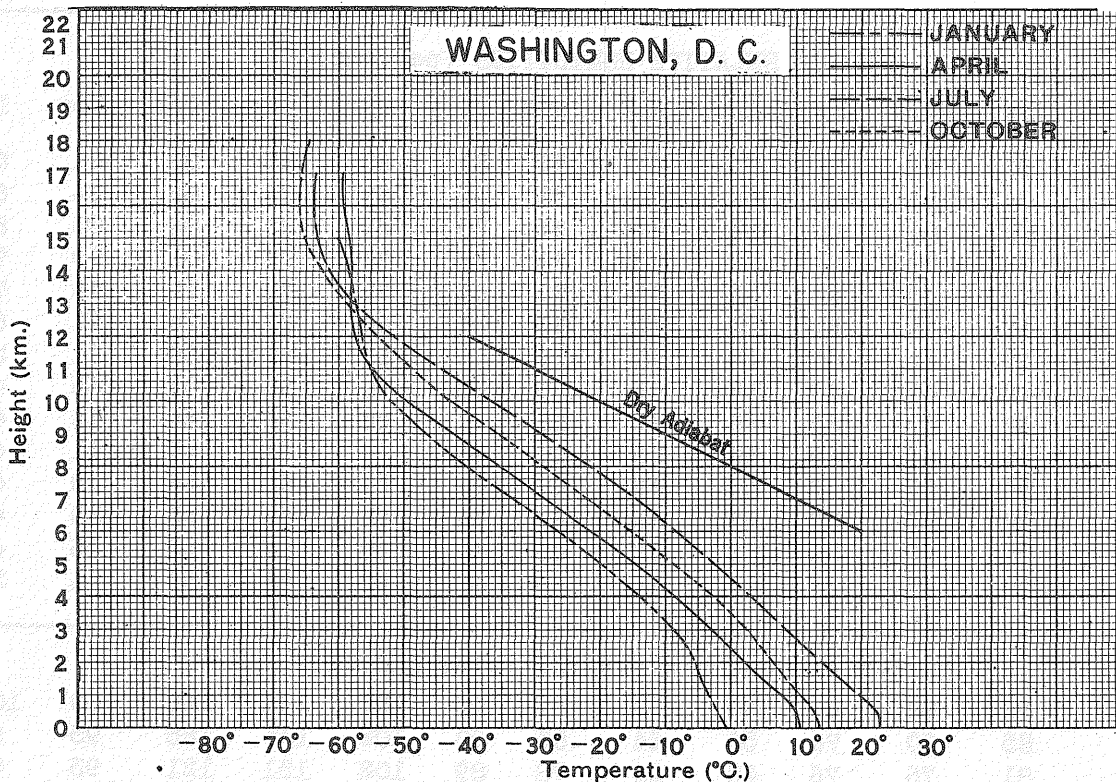
AVERAGE TEMPERATURES °C.

Washington, D. C.  
Elevation: 25 meters, m.s.l.

Period of Record: January 1940-December 1943

| Alt. (km.) | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Surface    | -0.9  | 0.8   | 4.6   | 10.5  | 16.7  | 21.5  | 22.9  | 22.5  | 18.8  | 13.4  | 7.5   | 2.7   |
| 0.5        | -2.0  | -0.6  | 3.3   | 10.0  | 16.3  | 20.7  | 22.4  | 21.7  | 18.1  | 12.9  | 6.8   | 2.3   |
| 1.0        | -3.3  | -2.7  | 1.0   | 7.7   | 14.1  | 18.2  | 19.8  | 18.9  | 15.6  | 10.6  | 4.6   | 0.6   |
| 1.5        | -4.6  | -4.6  | -1.4  | 4.8   | 10.9  | 15.5  | 16.7  | 16.0  | 12.9  | 8.5   | 2.7   | -0.5  |
| 2.0        | -5.3  | -6.4  | -3.4  | 2.2   | 7.8   | 12.6  | 13.7  | 13.2  | 10.6  | 6.6   | 0.7   | -1.6  |
| 2.5        | -6.8  | -8.1  | -5.0  | -0.3  | 5.0   | 9.8   | 11.1  | 10.8  | 8.7   | 4.4   | -1.0  | -3.2  |
| 3.0        | -8.8  | -10.3 | -7.2  | -3.0  | 2.2   | 7.2   | 8.4   | 8.5   | 6.5   | 2.3   | -3.0  | -5.1  |
| 4          | -14.0 | -15.5 | -12.6 | -8.8  | -3.3  | 2.0   | 3.0   | 3.3   | 1.2   | -3.0  | -7.9  | -10.4 |
| 5          | -20.0 | -21.4 | -18.7 | -14.6 | -9.3  | -3.4  | -2.5  | -2.2  | -4.0  | -8.8  | -13.5 | -16.2 |
| 6          | -26.5 | -27.6 | -25.5 | -21.3 | -15.5 | -9.1  | -8.3  | -8.0  | -10.0 | -15.2 | -19.8 | -22.6 |
| 7          | -33.2 | -33.6 | -32.5 | -28.5 | -22.6 | -15.3 | -14.6 | -14.3 | -16.5 | -22.1 | -26.8 | -29.2 |
| 8          | -40.3 | -40.5 | -39.2 | -35.6 | -29.9 | -22.6 | -21.5 | -21.3 | -23.6 | -28.9 | -33.8 | -35.8 |
| 9          | -46.8 | -46.6 | -45.9 | -42.7 | -37.2 | -29.9 | -28.8 | -28.3 | -31.0 | -36.0 | -40.9 | -42.3 |
| 10         | -52.1 | -51.4 | -51.5 | -49.5 | -44.2 | -37.4 | -36.5 | -35.5 | -38.0 | -42.9 | -47.3 | -48.4 |
| 11         | -55.2 | -54.0 | -55.3 | -54.7 | -50.8 | -44.6 | -44.3 | -42.7 | -44.9 | -48.9 | -52.6 | -53.2 |
| 12         | -56.4 | -54.0 | -55.7 | -57.7 | -56.4 | -51.9 | -51.6 | -49.6 | -51.6 | -54.3 | -56.9 | -56.0 |
| 13         | -57.4 | -55.8 | -55.3 | -58.2 | -59.8 | -57.6 | -57.7 | -56.0 | -56.9 | -58.7 | -58.8 | -57.6 |
| 14         | -58.3 | -55.4 | -56.1 | -58.1 | -60.3 | -62.1 | -61.3 | -60.9 | -61.3 | -62.5 | -61.0 | -59.6 |
| 15         | -60.1 | --    | -57.1 | -58.4 | -60.4 | -63.5 | -63.4 | -64.3 | -64.6 | -65.3 | -62.6 | -61.9 |
| 16         | --    | --    | -58.0 | -59.3 | -61.1 | -64.6 | -63.8 | -65.5 | -66.8 | -66.0 | -64.2 | --    |
| 17         | --    | --    | -58.9 | -59.4 | -61.4 | -65.3 | -63.3 | -64.6 | -66.5 | -65.8 | -64.3 | --    |
| 18         | --    | --    | --    | --    | -61.5 | -62.6 | --    | -62.5 | -65.0 | -64.6 | --    | --    |
| 19         | --    | --    | --    | --    | --    | --    | --    | -60.2 | -63.6 | --    | --    | --    |

| Surface | Number of Observations |     |     |     |     |     |     |     |     |     |     |     |
|---------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|         | 109                    | 105 | 124 | 118 | 122 | 120 | 121 | 107 | 111 | 122 | 119 | 117 |
| 5       | 104                    | 97  | 121 | 114 | 121 | 118 | 114 | 103 | 110 | 120 | 112 | 115 |
| 10      | 74                     | 60  | 100 | 89  | 101 | 97  | 86  | 85  | 92  | 94  | 80  | 81  |
| 15      | 25                     | --  | 56  | 49  | 69  | 63  | 55  | 65  | 68  | 46  | 38  | 28  |
| 18      | --                     | --  | --  | --  | 26  | 30  | --  | 45  | 44  | 29  | --  | --  |



AVERAGE PRESSURES (Mbs.)

Elevation: 25 meters, m.s.l.

WASHINGTON, D. C.

| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Surface  | 1018 | 1014 | 1015 | 1015 | 1014 | 1013 | 1014 | 1014 | 1017  | 1016 | 1018 | 1018 |
| 0.5      | 958  | 954  | 956  | 958  | 958  | 959  | 960  | 960  | 961   | 960  | 960  | 959  |
| 1.0      | 900  | 896  | 899  | 902  | 903  | 905  | 906  | 906  | 907   | 905  | 903  | 901  |
| 1.5      | 845  | 841  | 844  | 848  | 851  | 853  | 855  | 855  | 855   | 852  | 850  | 847  |
| 2.0      | 793  | 789  | 793  | 798  | 801  | 804  | 805  | 805  | 805   | 801  | 798  | 795  |
| 2.5      | 743  | 740  | 744  | 749  | 754  | 757  | 759  | 758  | 758   | 754  | 750  | 746  |
| 3.0      | 697  | 694  | 698  | 704  | 709  | 713  | 715  | 714  | 714   | 708  | 704  | 701  |
| 4        | 612  | 608  | 613  | 620  | 625  | 631  | 633  | 632  | 631   | 625  | 620  | 616  |
| 5        | 536  | 532  | 537  | 544  | 550  | 557  | 559  | 559  | 557   | 551  | 545  | 540  |
| 6        | 467  | 464  | 469  | 476  | 483  | 490  | 492  | 492  | 490   | 483  | 477  | 472  |
| 7        | 406  | 404  | 408  | 415  | 422  | 430  | 432  | 432  | 430   | 423  | 416  | 412  |
| 8        | 352  | 349  | 352  | 360  | 367  | 376  | 378  | 378  | 375   | 369  | 361  | 357  |
| 9        | 303  | 301  | 304  | 311  | 319  | 327  | 329  | 329  | 327   | 320  | 313  | 308  |
| 10       | 260  | 259  | 262  | 268  | 276  | 284  | 286  | 286  | 284   | 277  | 270  | 266  |
| 11       | 223  | 222  | 224  | 230  | 237  | 245  | 246  | 247  | 245   | 238  | 232  | 227  |
| 12       | 191  | 190  | 191  | 197  | 203  | 211  | 212  | 213  | 210   | 205  | 200  | 194  |
| 13       | 165  | 163  | 164  | 168  | 173  | 181  | 182  | 182  | 180   | 175  | 170  | 166  |
| 14       | 140  | 139  | 140  | 143  | 147  | 154  | 155  | 155  | 154   | 150  | 146  | 141  |
| 15       | 120  | 119  | 119  | 122  | 126  | 131  | 132  | 132  | 131   | 128  | 124  | 120  |
| 16       | --   | --   | 102  | 104  | 108  | 111  | 112  | 112  | 112   | 108  | 105  | --   |
| 17       | --   | --   | 87   | 89   | 92   | 94   | 96   | 96   | 95    | 92   | 89   | --   |
| 18       | --   | --   | --   | --   | 78   | 80   | --   | 81   | 80    | 78   | --   | --   |
| 19       | --   | --   | --   | --   | --   | --   | --   | 69   | 69    | --   | --   | --   |

AVERAGE RELATIVE HUMIDITIES (percent)

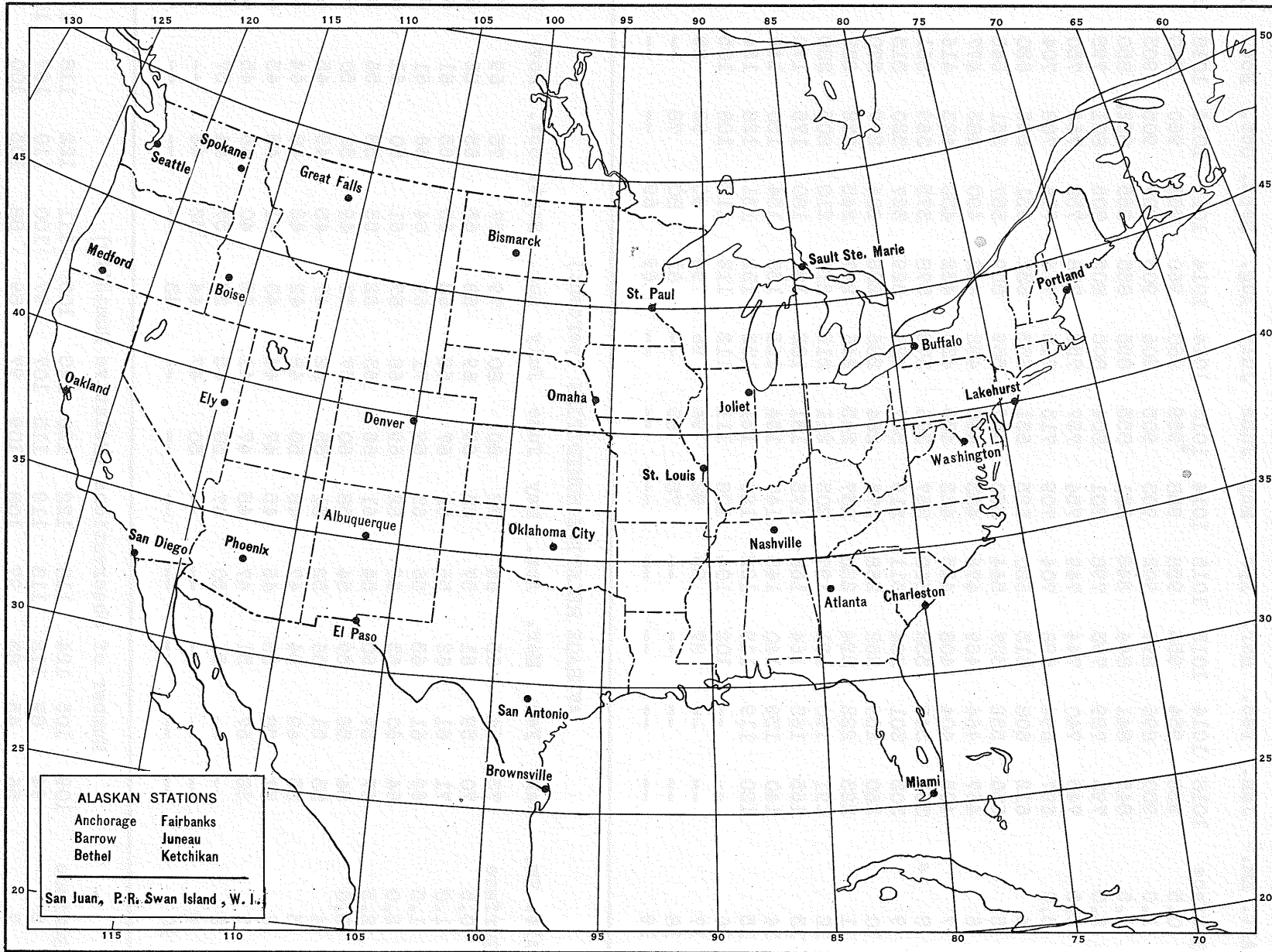
| Alt. Km. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| Surface  | 73   | 64   | 65   | 64   | 72  | 80   | 80   | 79   | 77    | 75   | 69   | 70   |
| 0.5      | 70   | 59   | 61   | 57   | 63  | 69   | 69   | 68   | 65    | 65   | 62   | 65   |
| 1.0      | 71   | 61   | 62   | 56   | 62  | 67   | 68   | 68   | 65    | 65   | 61   | 64   |
| 1.5      | 69   | 61   | 63   | 56   | 63  | 69   | 71   | 69   | 64    | 66   | 61   | 64   |
| 2.0      | 64   | 60   | 63   | 56   | 62  | 69   | 68   | 67   | 61    | 60   | 61   | 60   |
| 2.5      | 57   | 57   | 60   | 54   | 61  | 66   | 63   | 62   | 55    | 58   | 56   | 56   |
| 3.0      | 54   | 56   | 59   | 54   | 58  | 60   | 57   | 53   | 49    | 52   | 50   | 51   |
| 4        | 53   | 51   | 56   | 52   | 51  | 55   | 52   | 47   | 45    | 49   | 45   | 49   |
| 5        | 55   | 49   | 54   | 47   | 48  | 50   | 48   | 42   | 42    | 48   | 44   | 47   |
| 6        | 57   | 58   | 53   | 46   | 45  | 47   | 44   | 40   | 41    | 48   | 43   | 47   |
| 7        | 58   | 67   | 51   | 47   | 43  | 47   | 41   | 38   | 40    | 46   | 45   | 47   |
| 8        | --   | --   | 51   | 50   | 47  | 50   | 45   | 38   | 37    | 44   | 37   | 57   |
| 9        | --   | --   | --   | --   | --  | 50   | 47   | 44   | 33    | 44   | --   | --   |
| 10       | --   | --   | --   | --   | --  | --   | --   | 43   | --    | --   | --   | --   |

Number of Observations (Relative Humidity)

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Surface | 109 | 105 | 124 | 118 | 122 | 120 | 120 | 105 | 111 | 122 | 118 | 117 |
| 5       | 94  | 89  | 112 | 113 | 119 | 115 | 107 | 97  | 100 | 110 | 107 | 106 |
| 7       | 56  | 45  | 83  | 97  | 108 | 109 | 97  | 89  | 88  | 105 | 100 | 93  |
| 9       | --  | --  | --  | --  | --  | 57  | 40  | 43  | 41  | 37  | --  | --  |

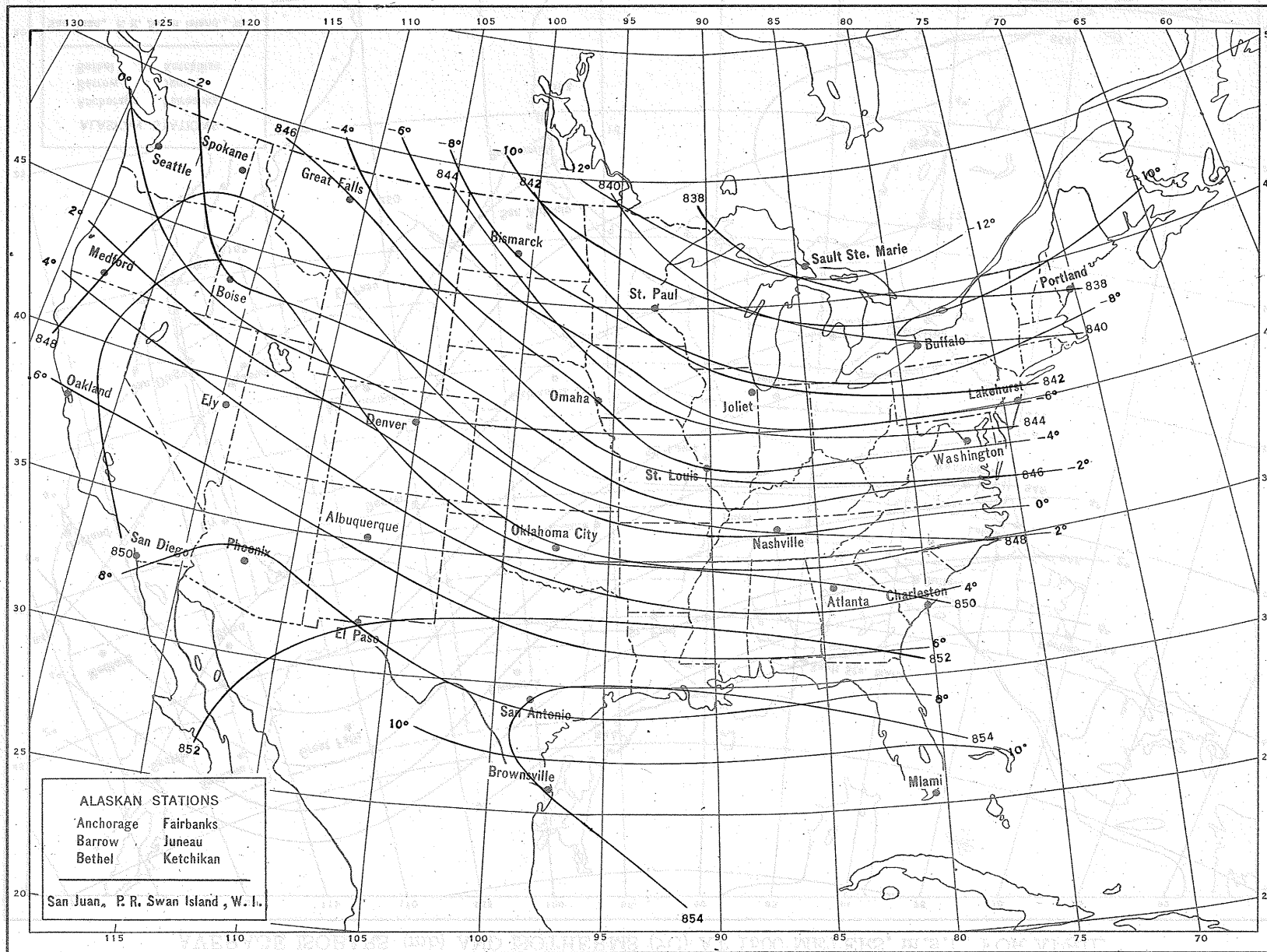
# STATION LOCATION CHART

(SHOWING STATIONS FOR WHICH DATA ARE PUBLISHED)

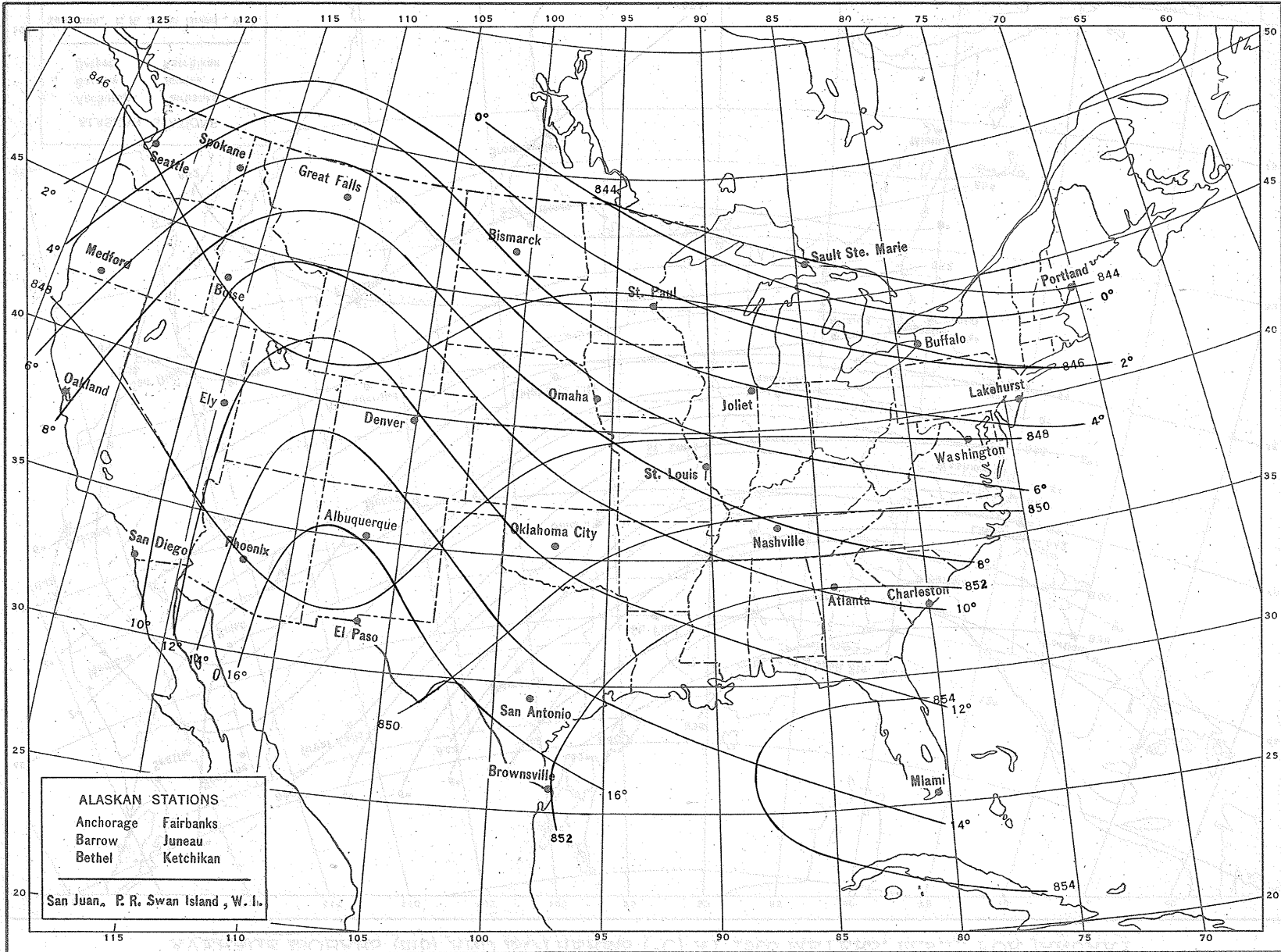




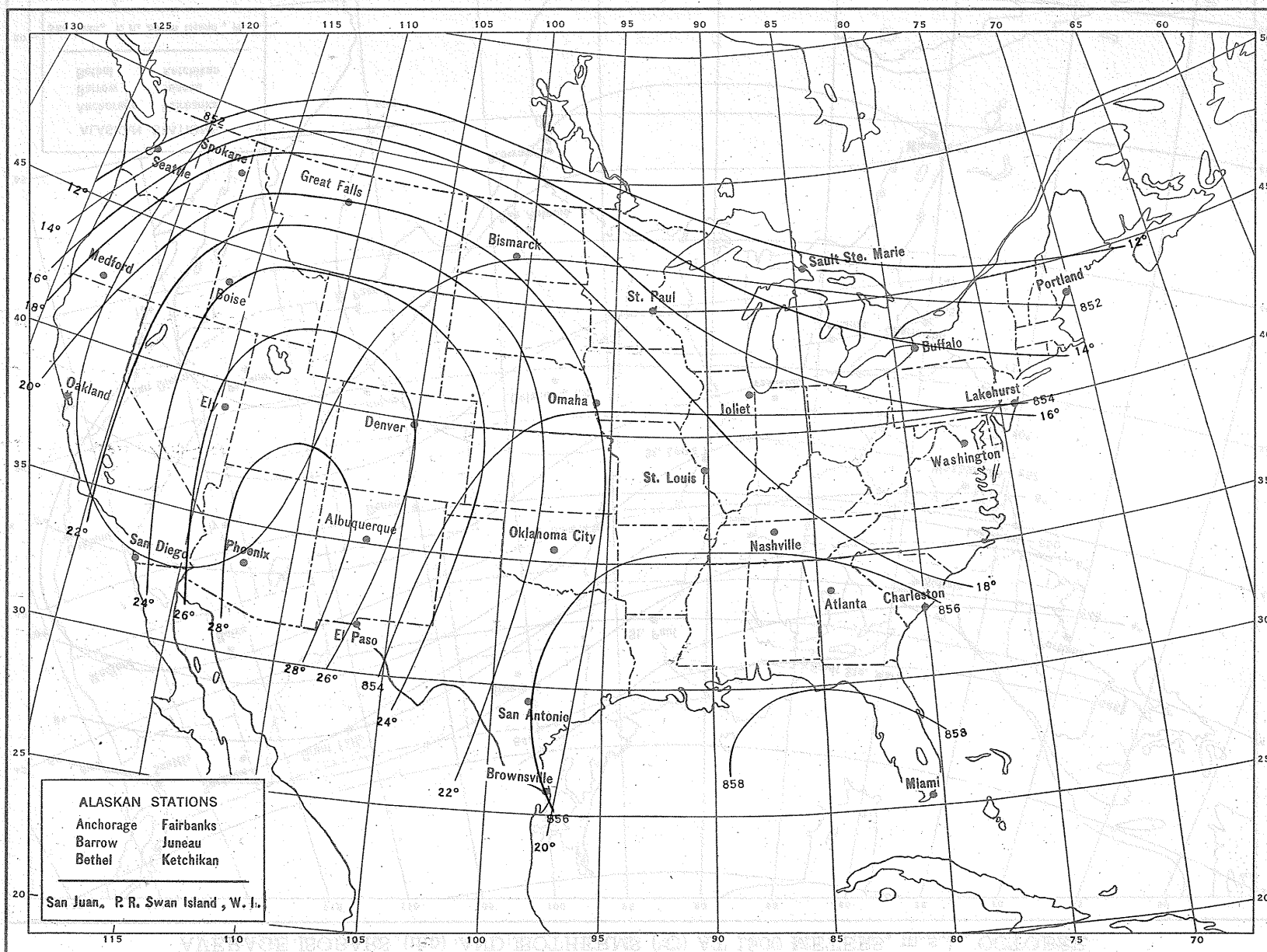
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 1500 METERS, m.s.l., FOR JANUARY



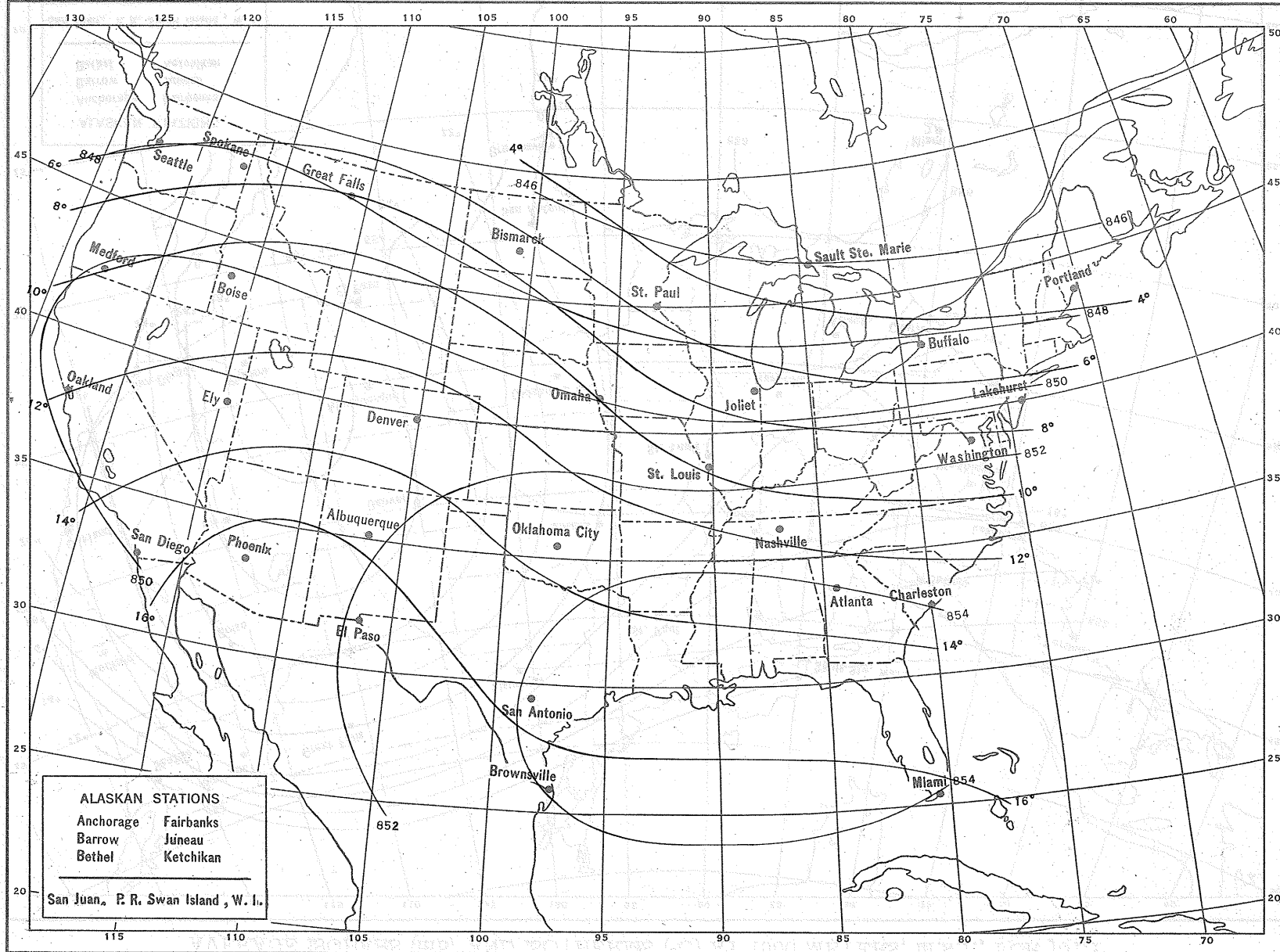
AVERAGE ISOBARS (mb) AND ISOTHERMS ( $^{\circ}$ C) AT 1500 METERS, m.s.l., FOR APRIL



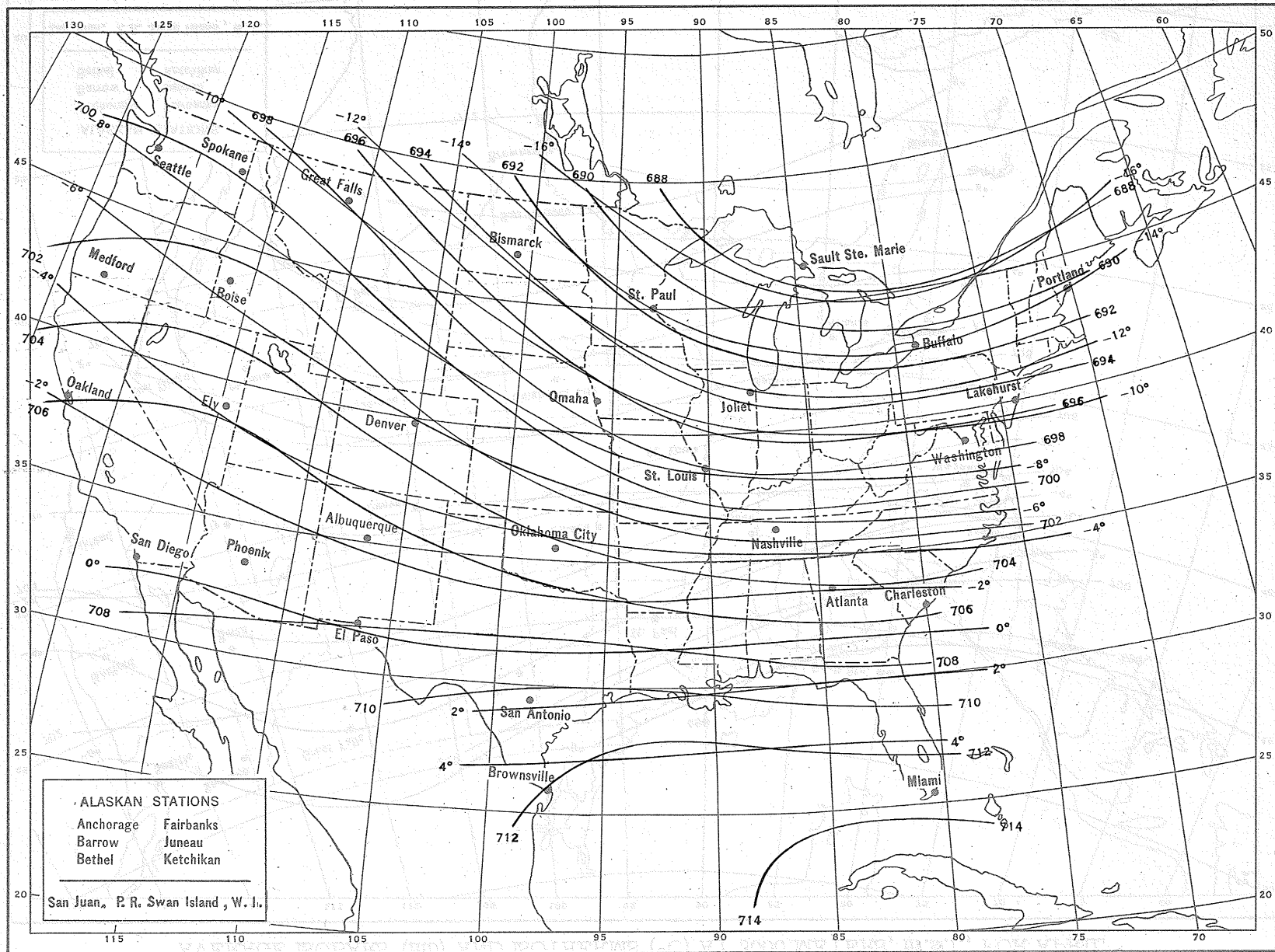
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 1500 METERS, m.s.l., FOR JULY



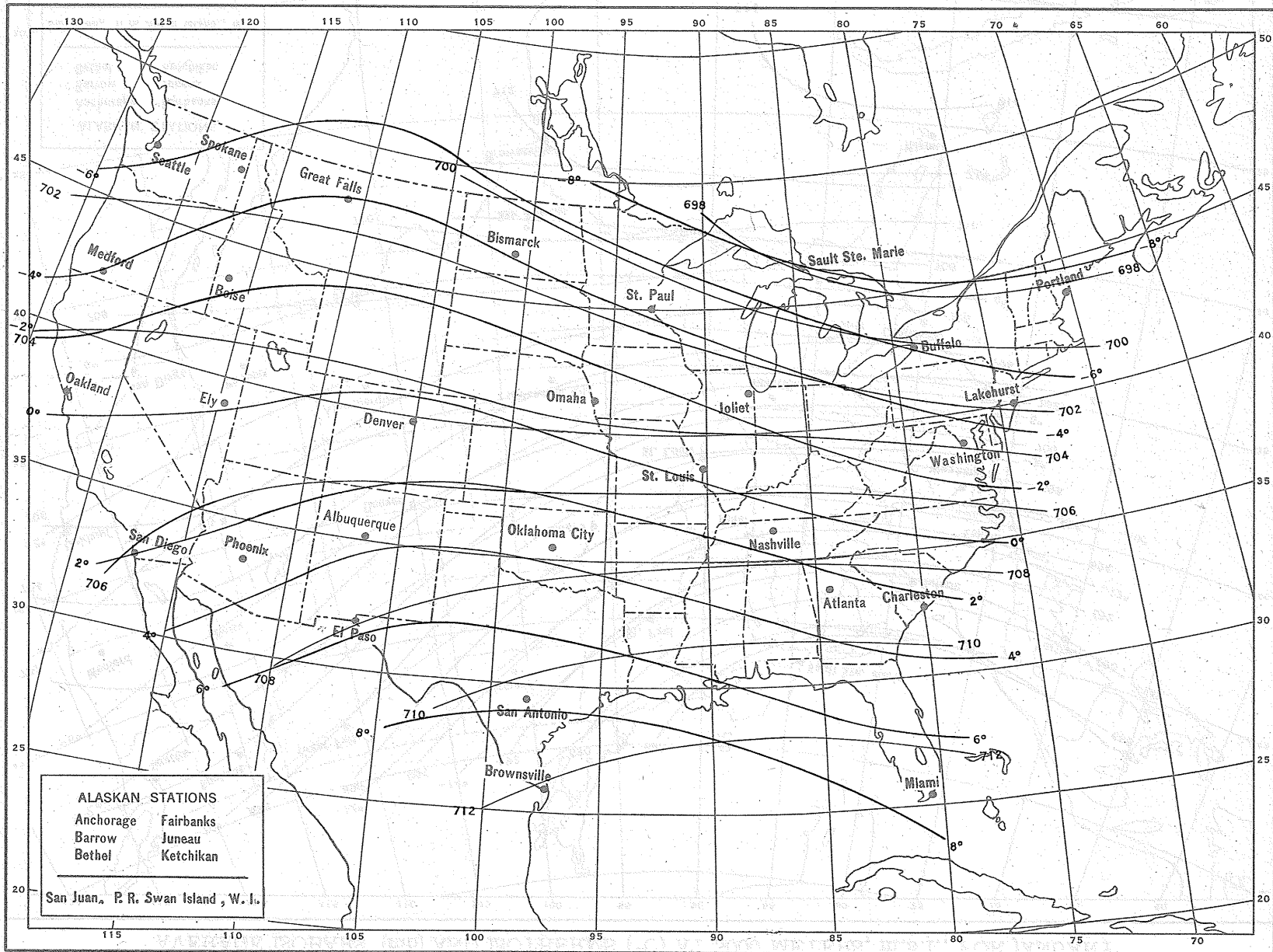
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 1500 METERS, m.s.l., OCTOBER



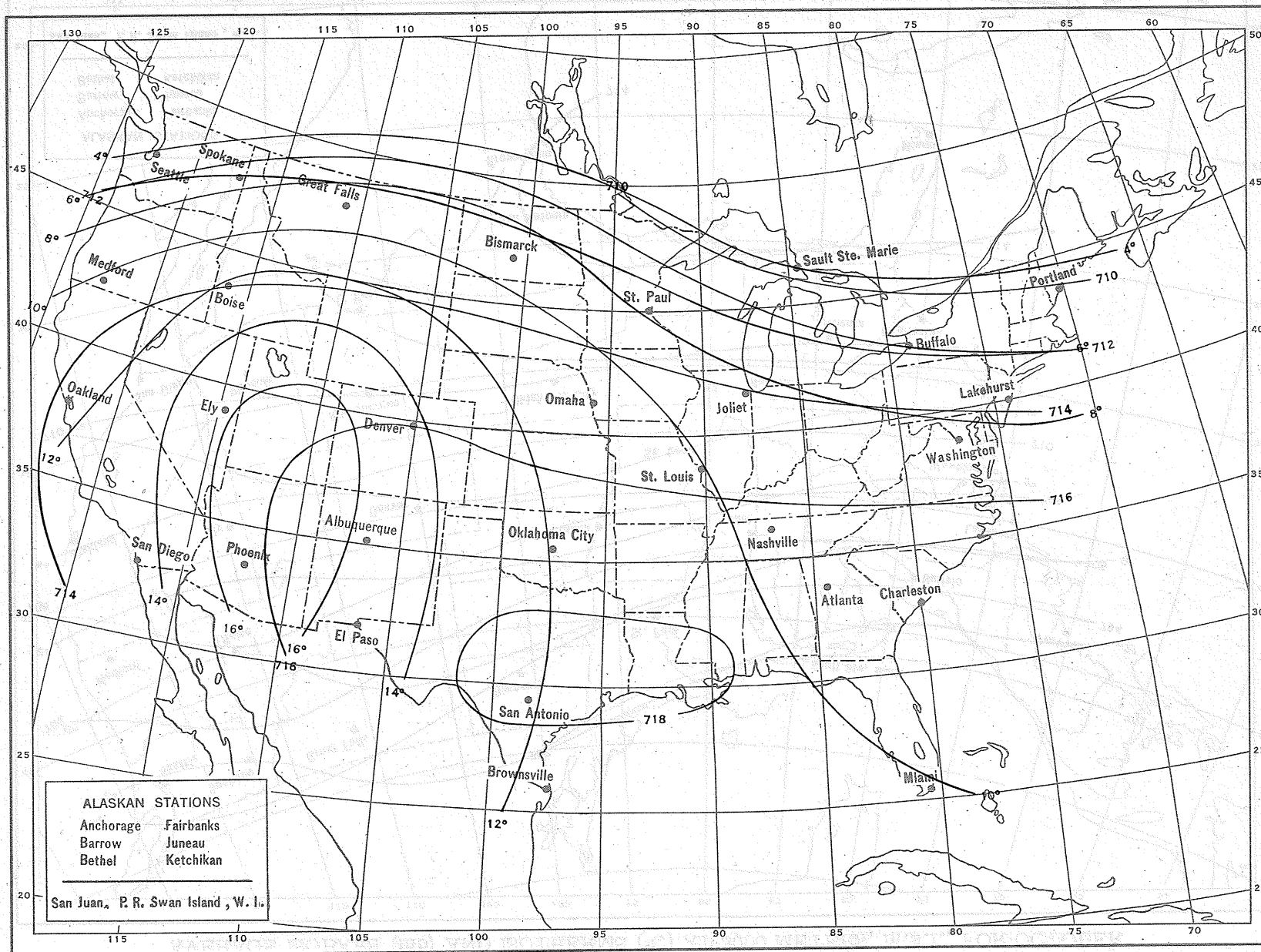
AVERAGE ISOBARS (mb) AND ISOTHERMS ( $^{\circ}\text{C}$ ) AT 3000 METERS, m.s.l., FOR JANUARY



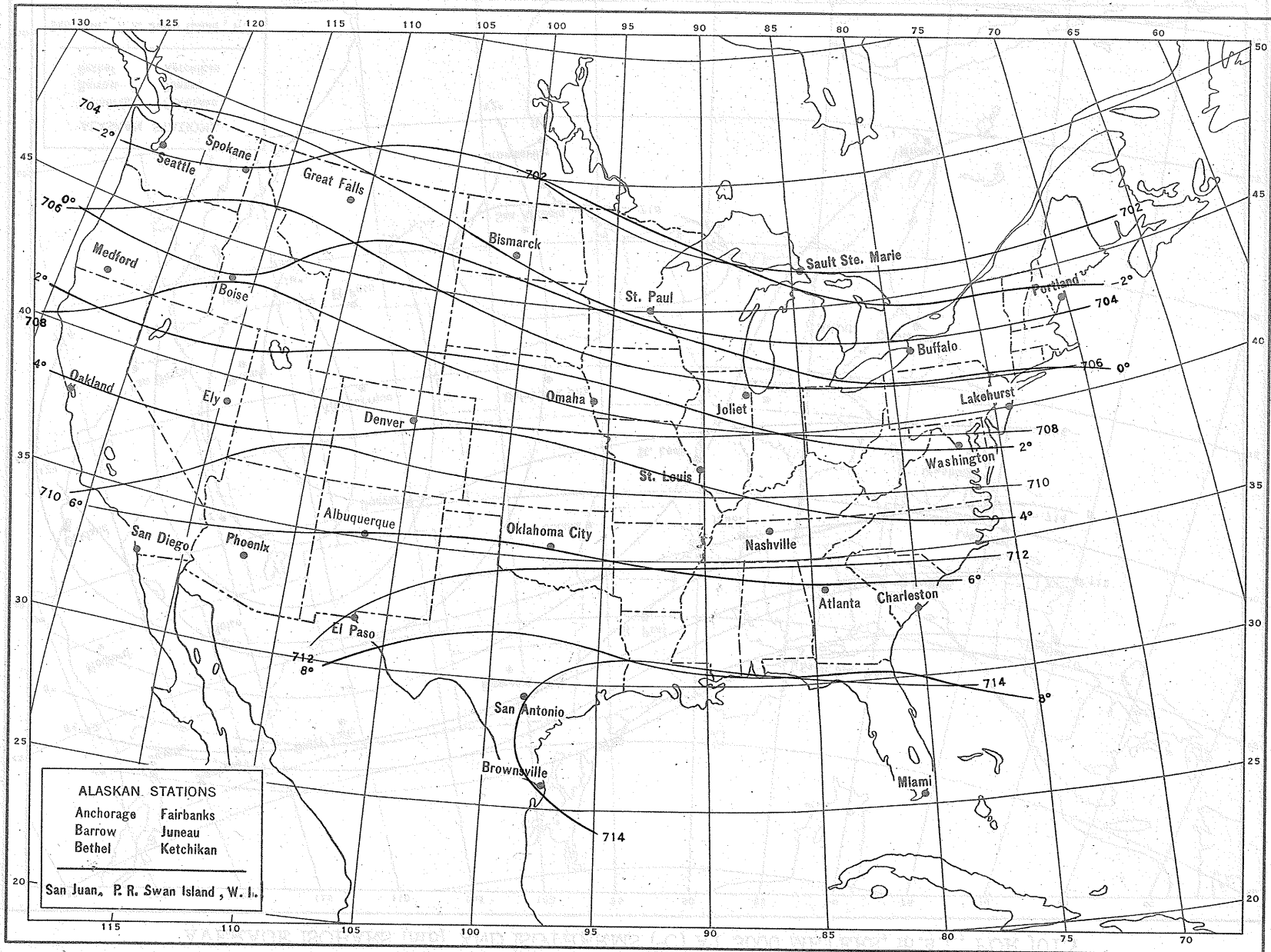
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 3000 METERS, m.s.l., FOR APRIL



AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 3000 METERS, m.s.l., FOR JULY

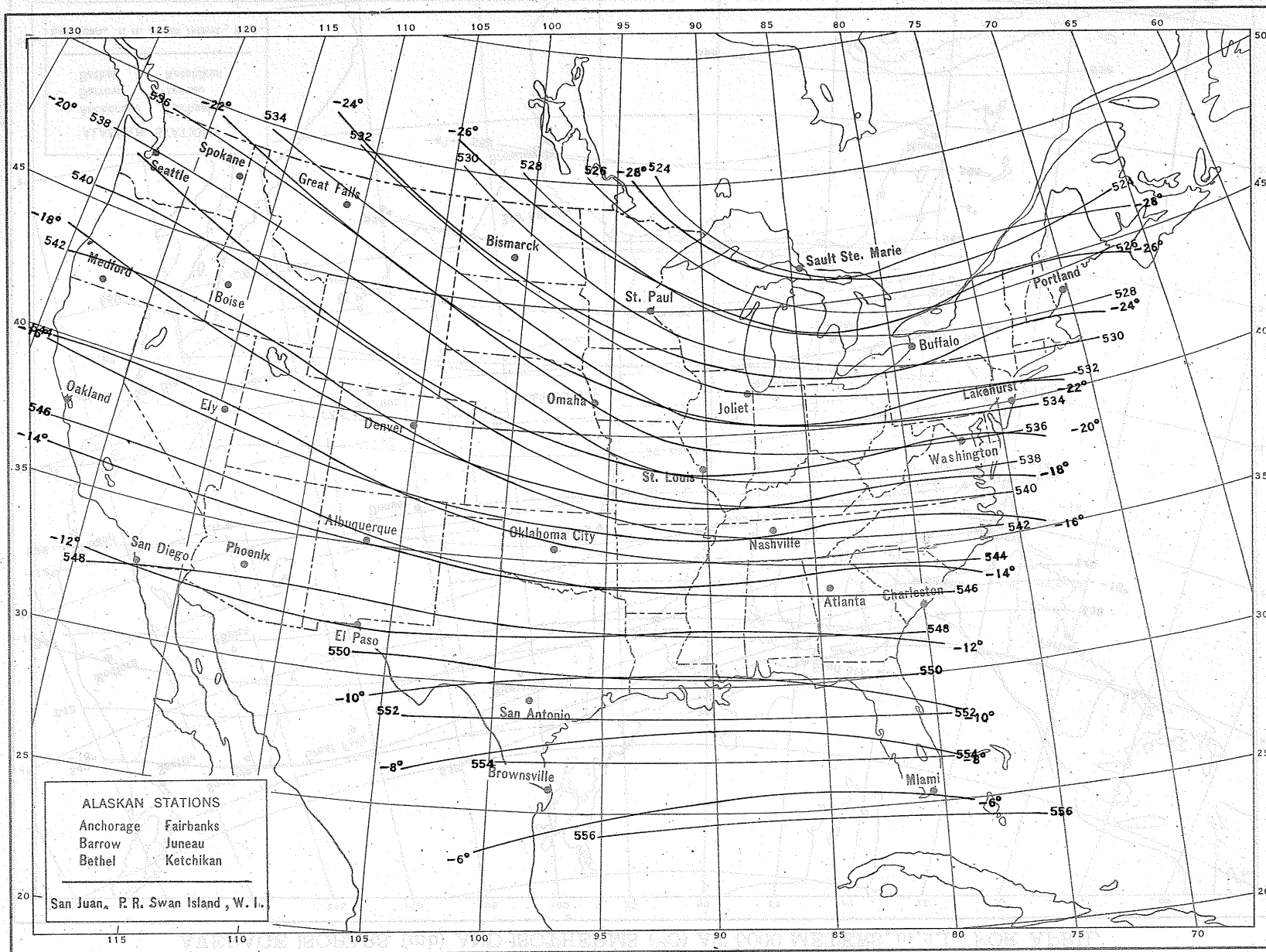


AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 3000 METERS, m.s.l., FOR OCTOBER

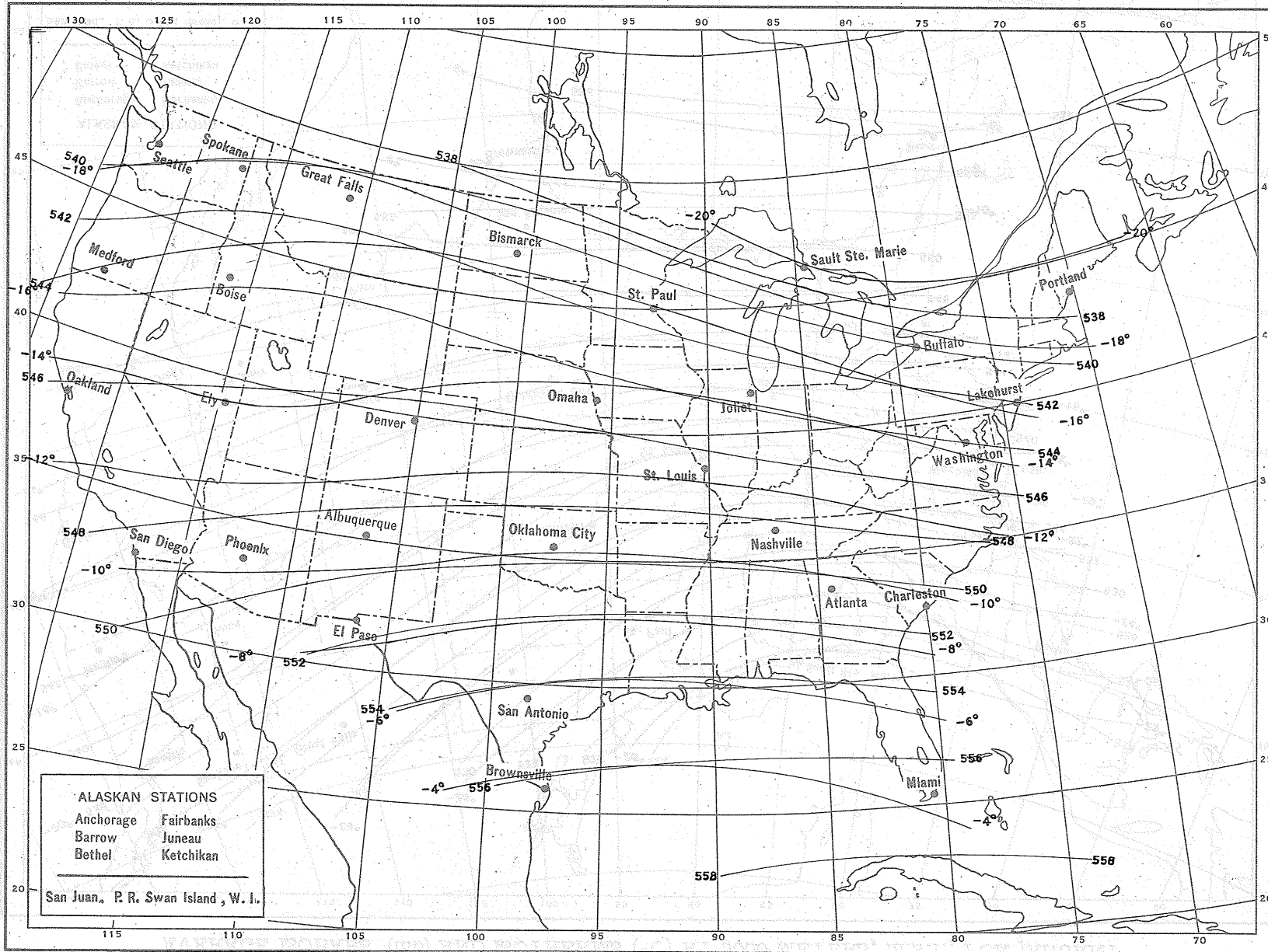




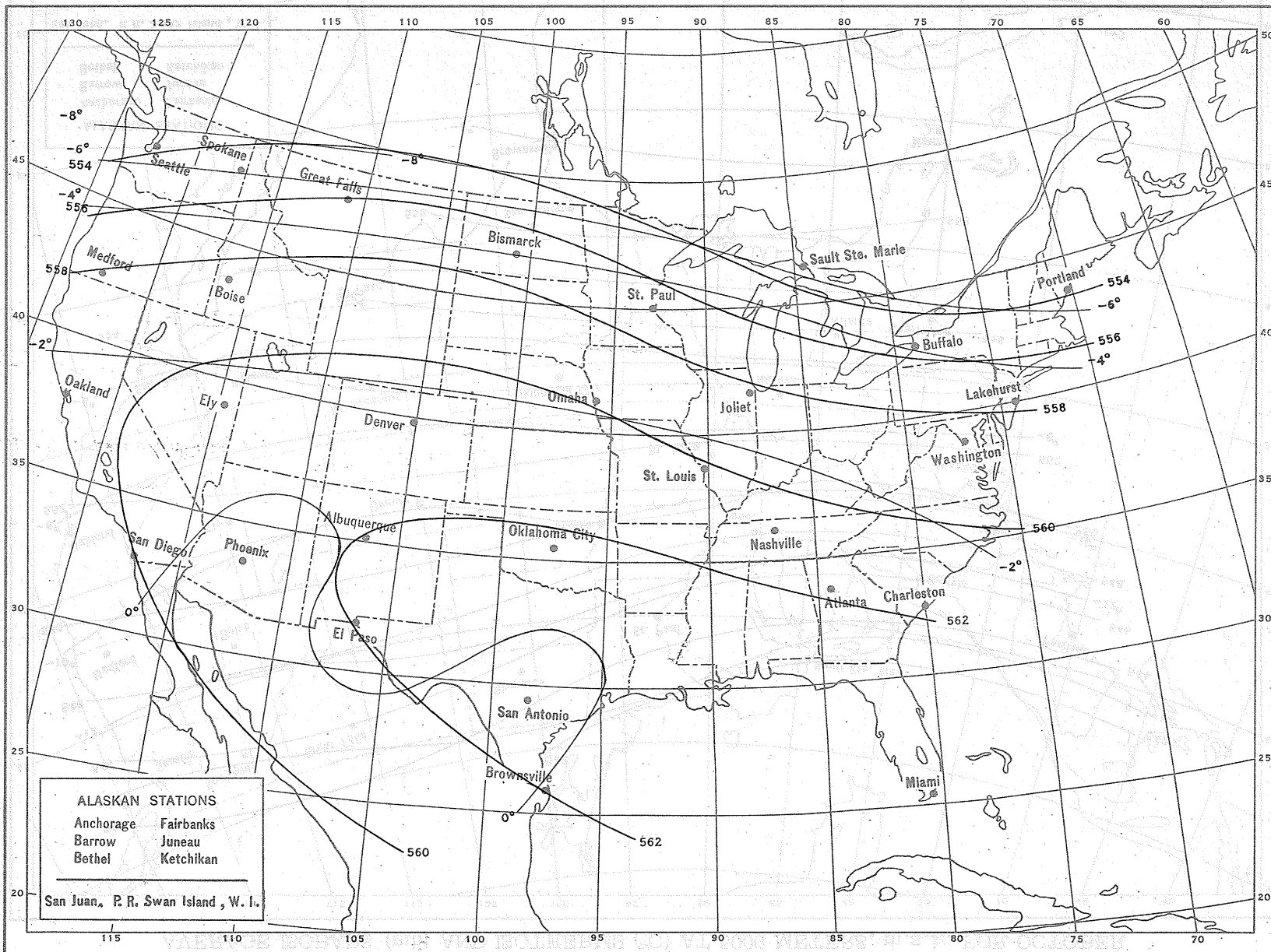
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 5000 METERS, m.s.l., FOR JANUARY



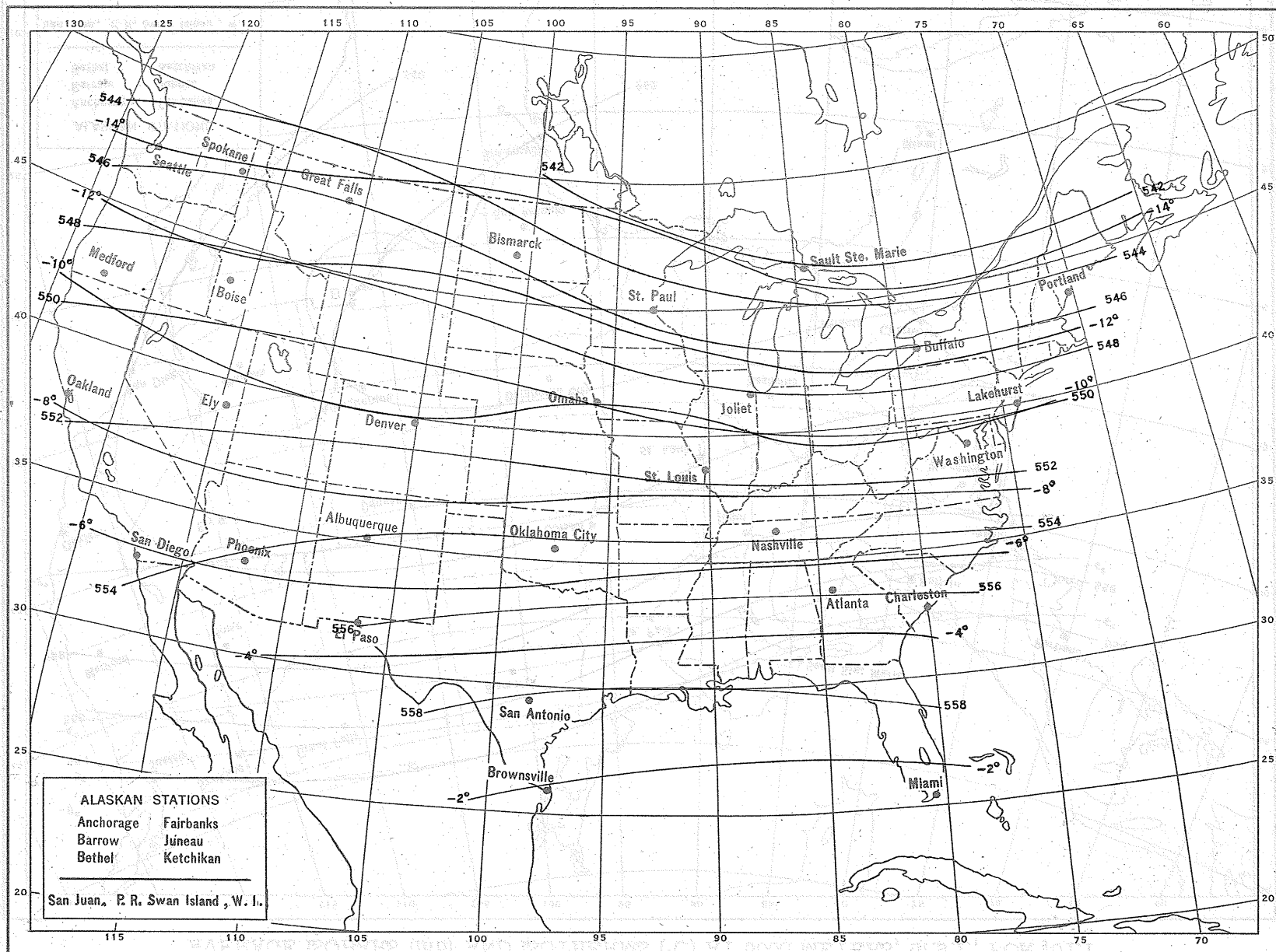
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 5000 METERS, m.s.l., FOR APRIL



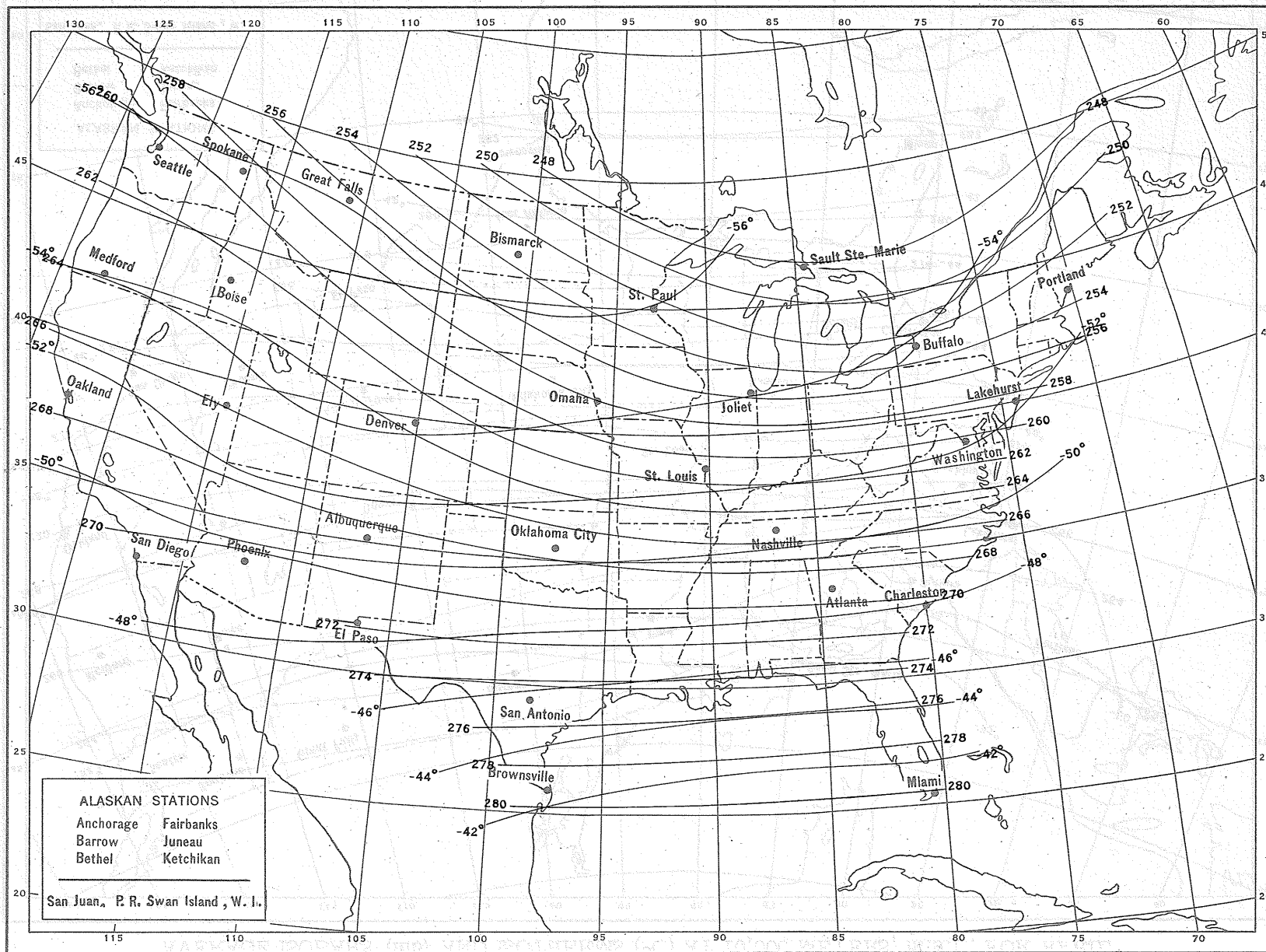
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 5000 METERS, m.s.l., FOR JULY



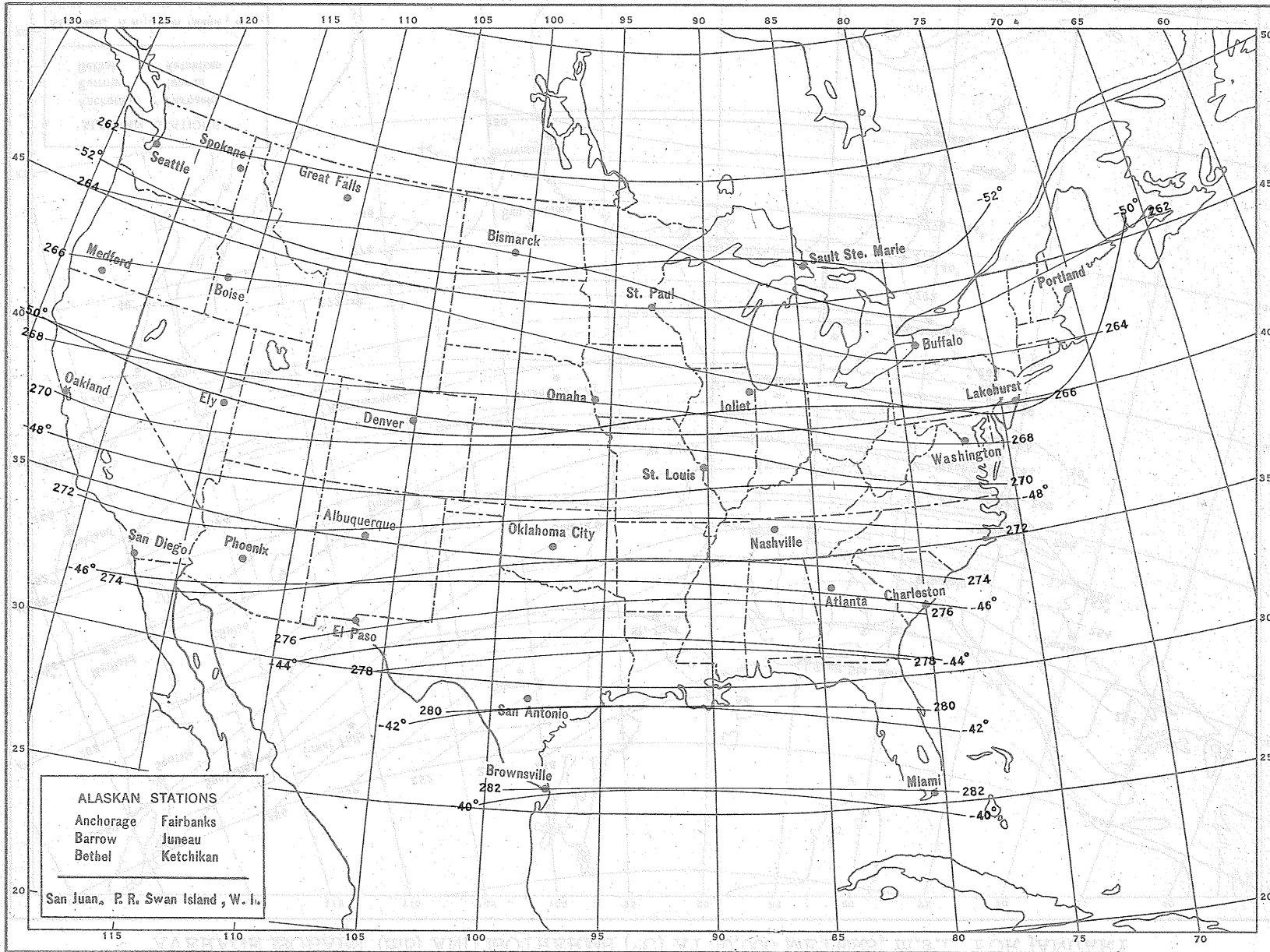
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 5000 METERS, m.s.l., FOR OCTOBER



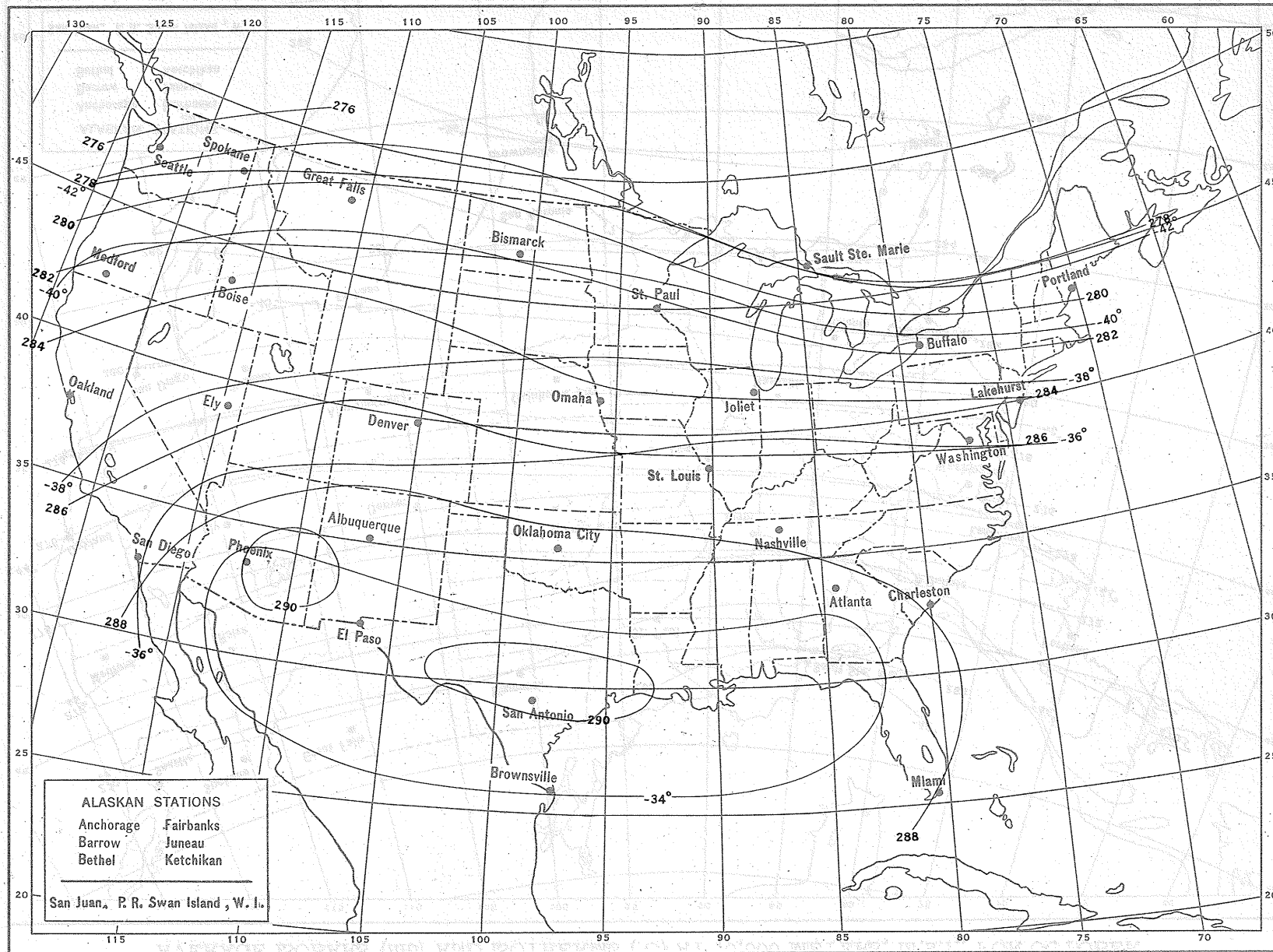
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 10,000 METERS, m.s.l., FOR JANUARY



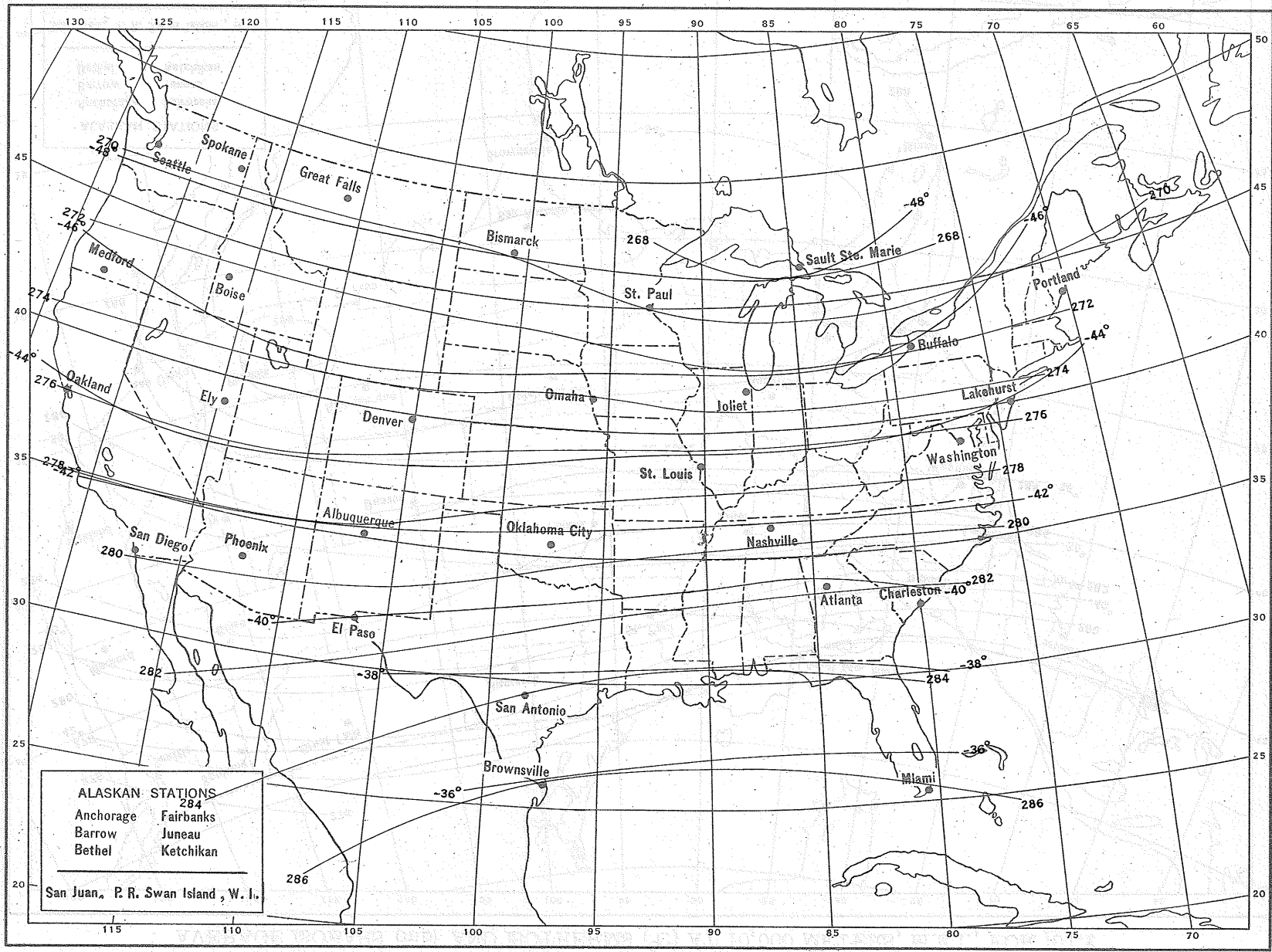
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 10,000 METERS, m.s.l., FOR APRIL



AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 10,000 METERS, m.s.l., FOR JULY

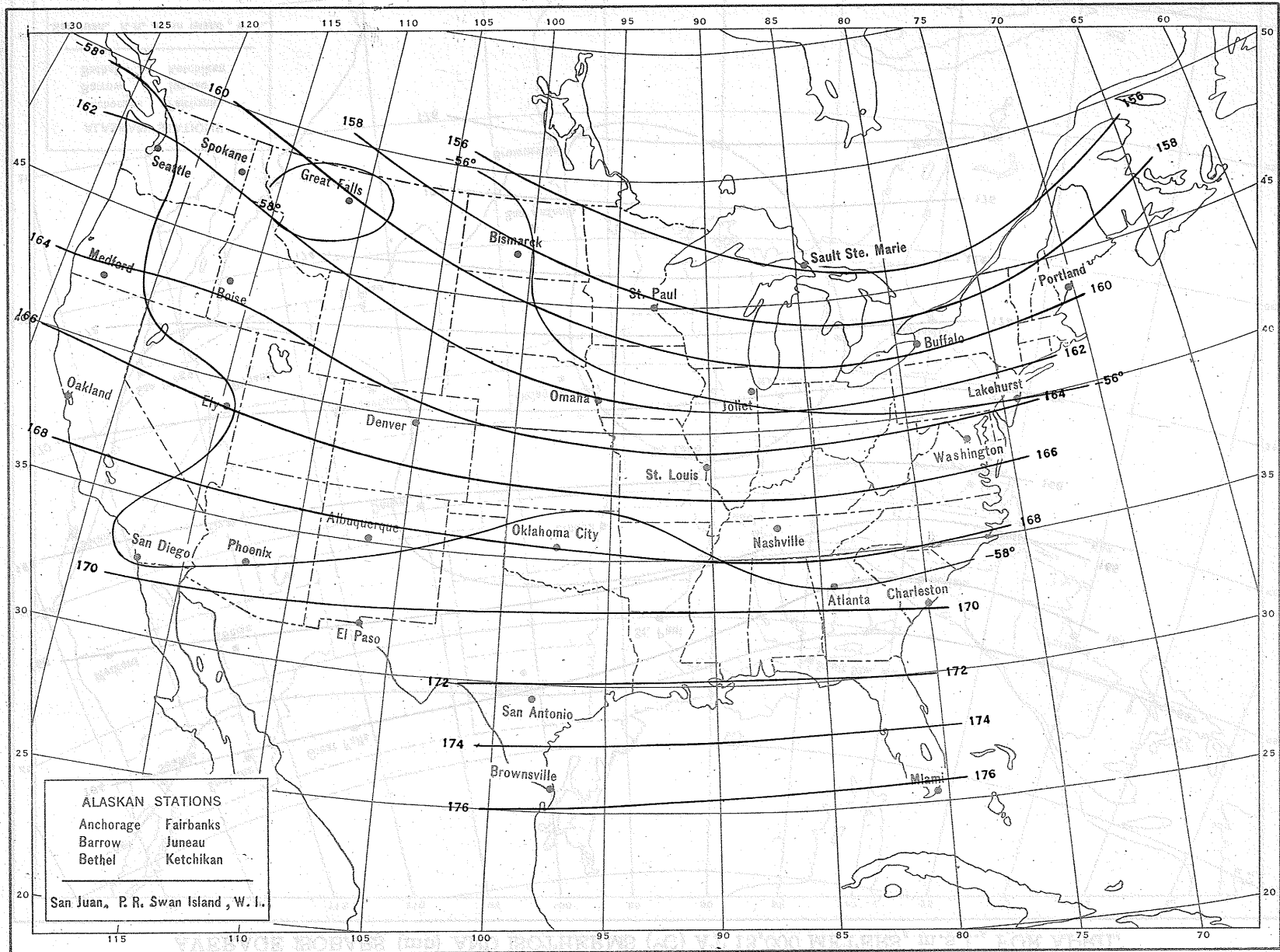


AVERAGE ISOBARS (mb) AND ISOTHERMS ( $^{\circ}\text{C}$ ) AT 10,000 METERS, m.s.l., FOR OCTOBER

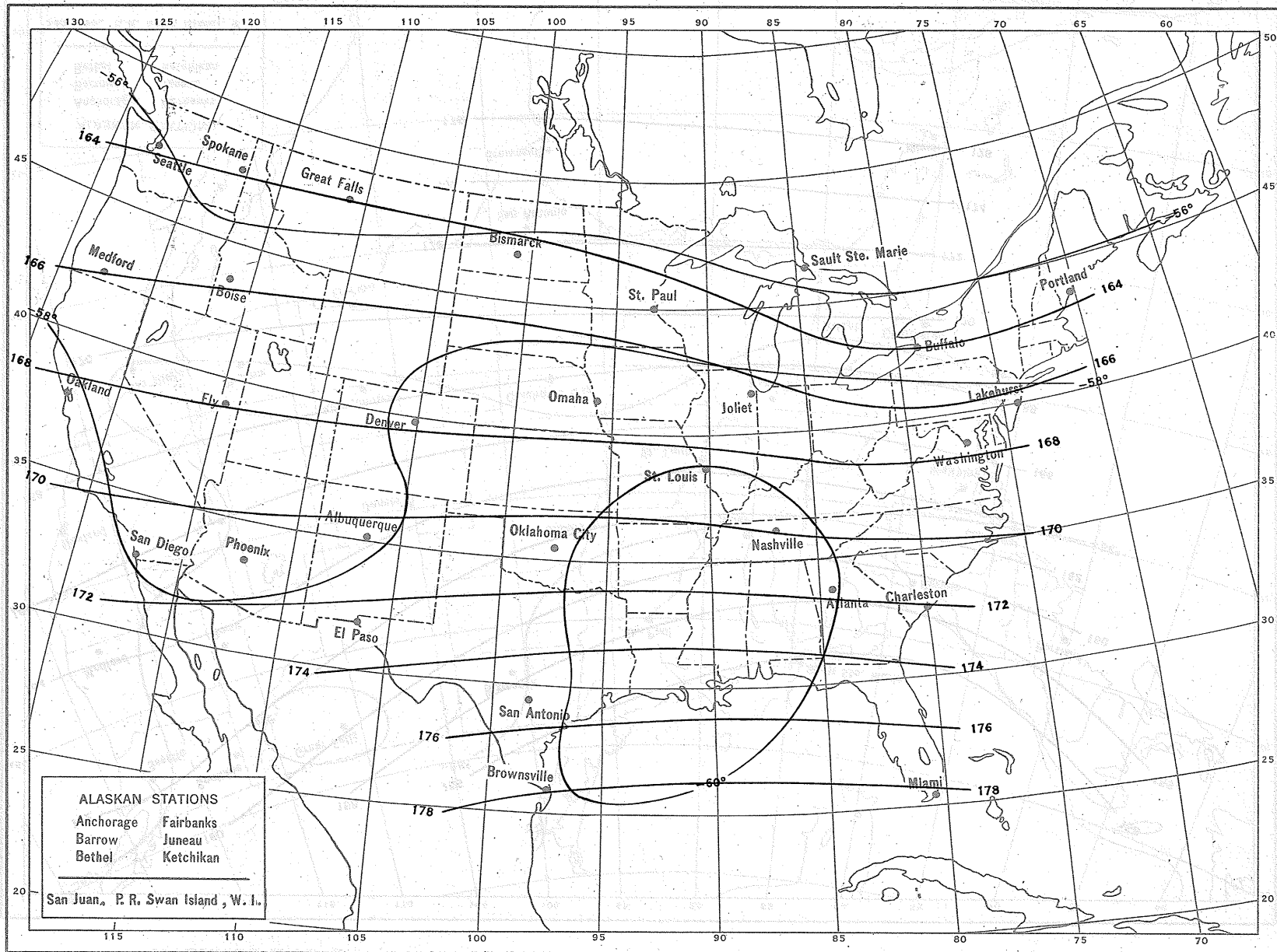




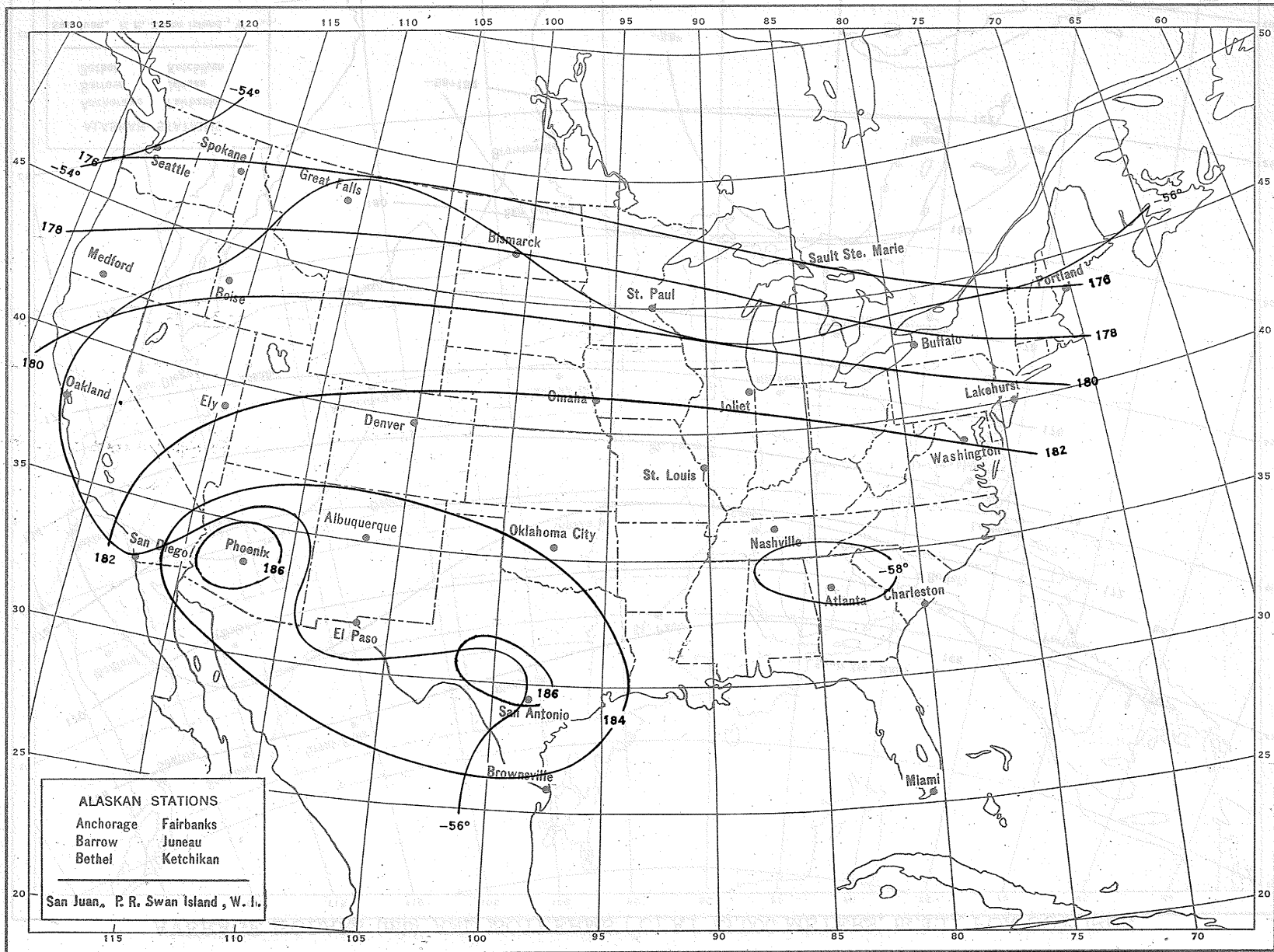
AVERAGE ISOBARS (mb) AND ISOTHERMS ( $^{\circ}\text{C}$ ) AT 13,000 METERS, m.s.l., FOR JANUARY



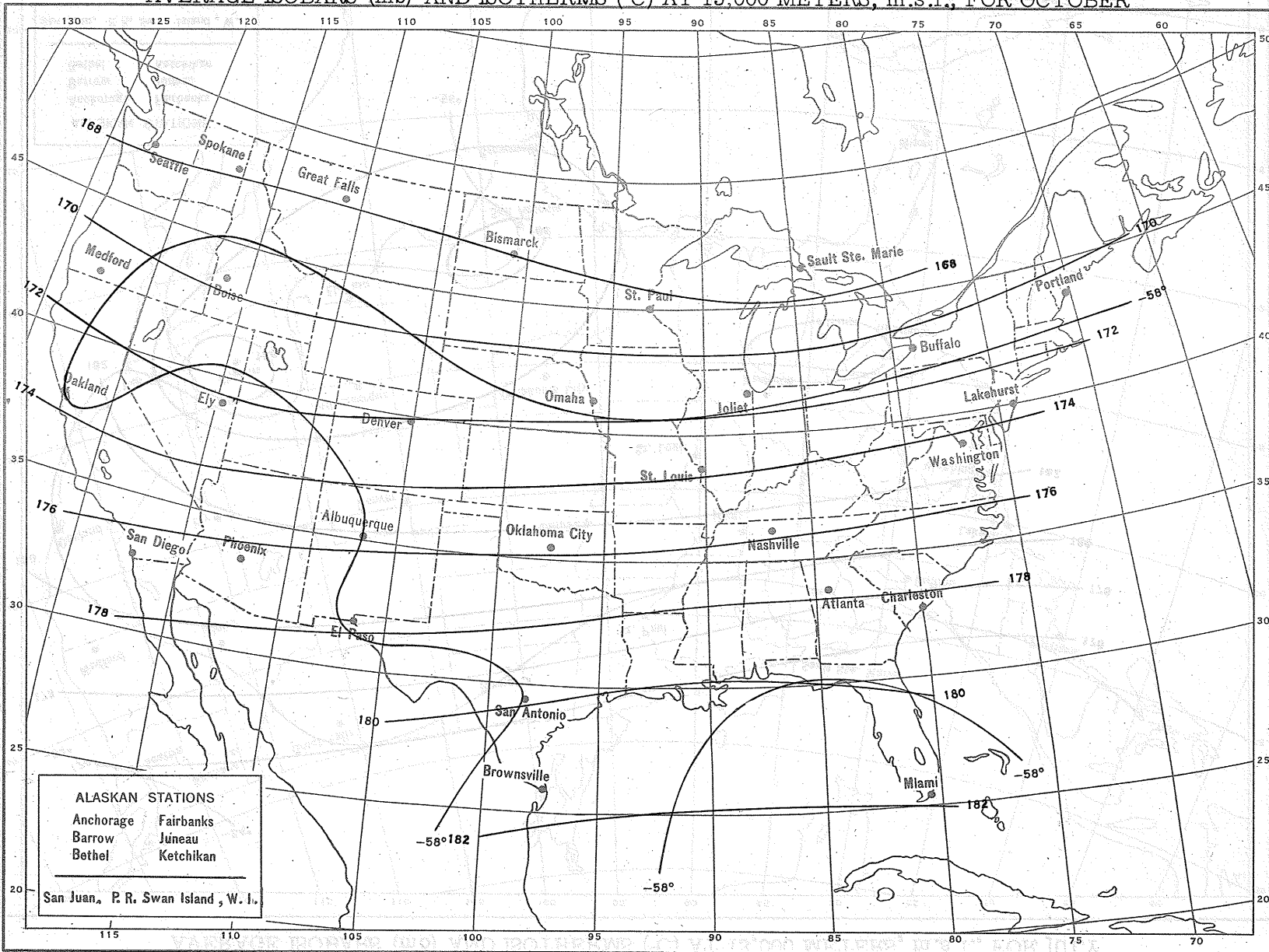
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 13,000 METERS, m.s.l., FOR APRIL



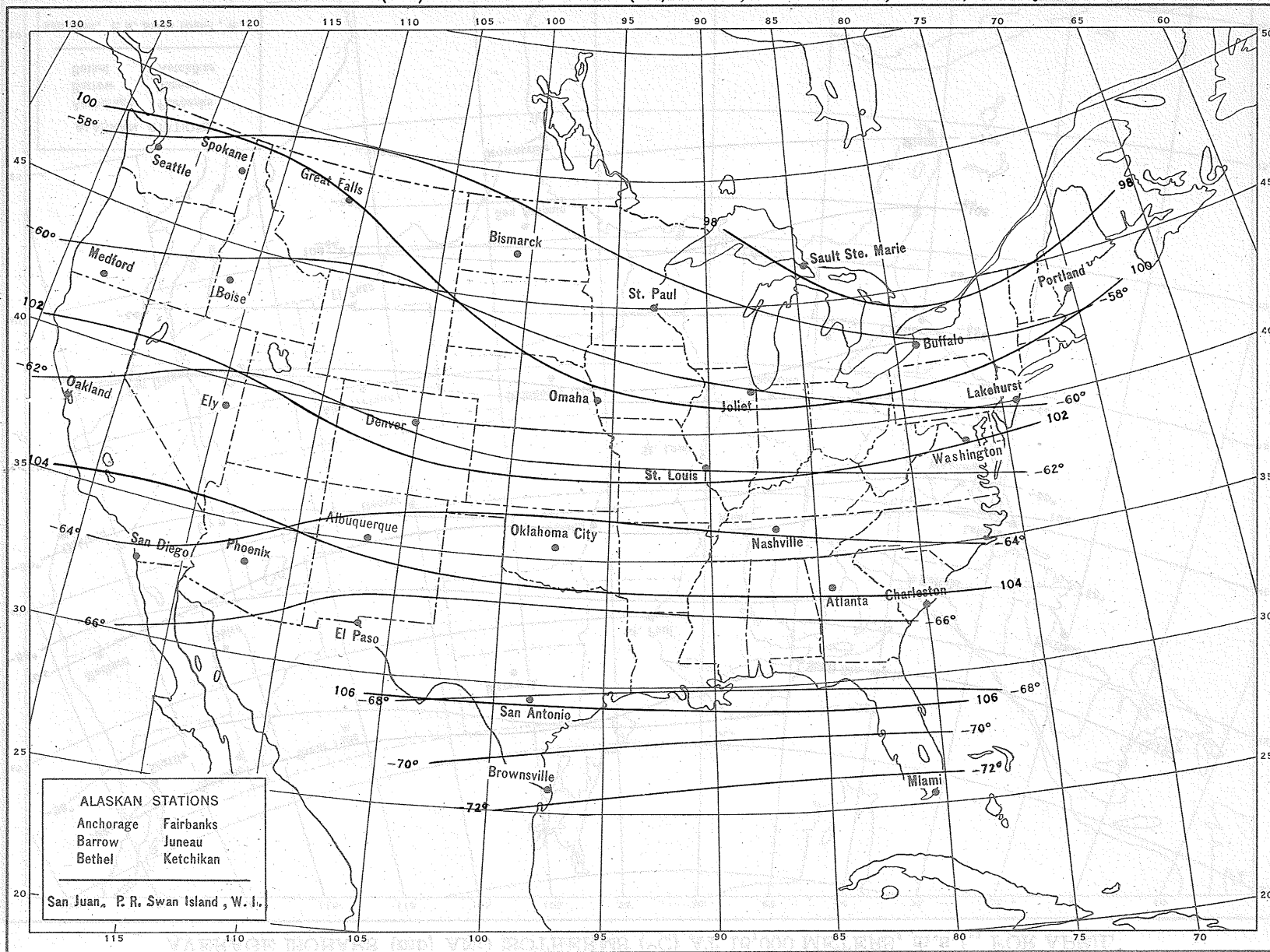
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 13,000 METERS, m.s.l., FOR JULY



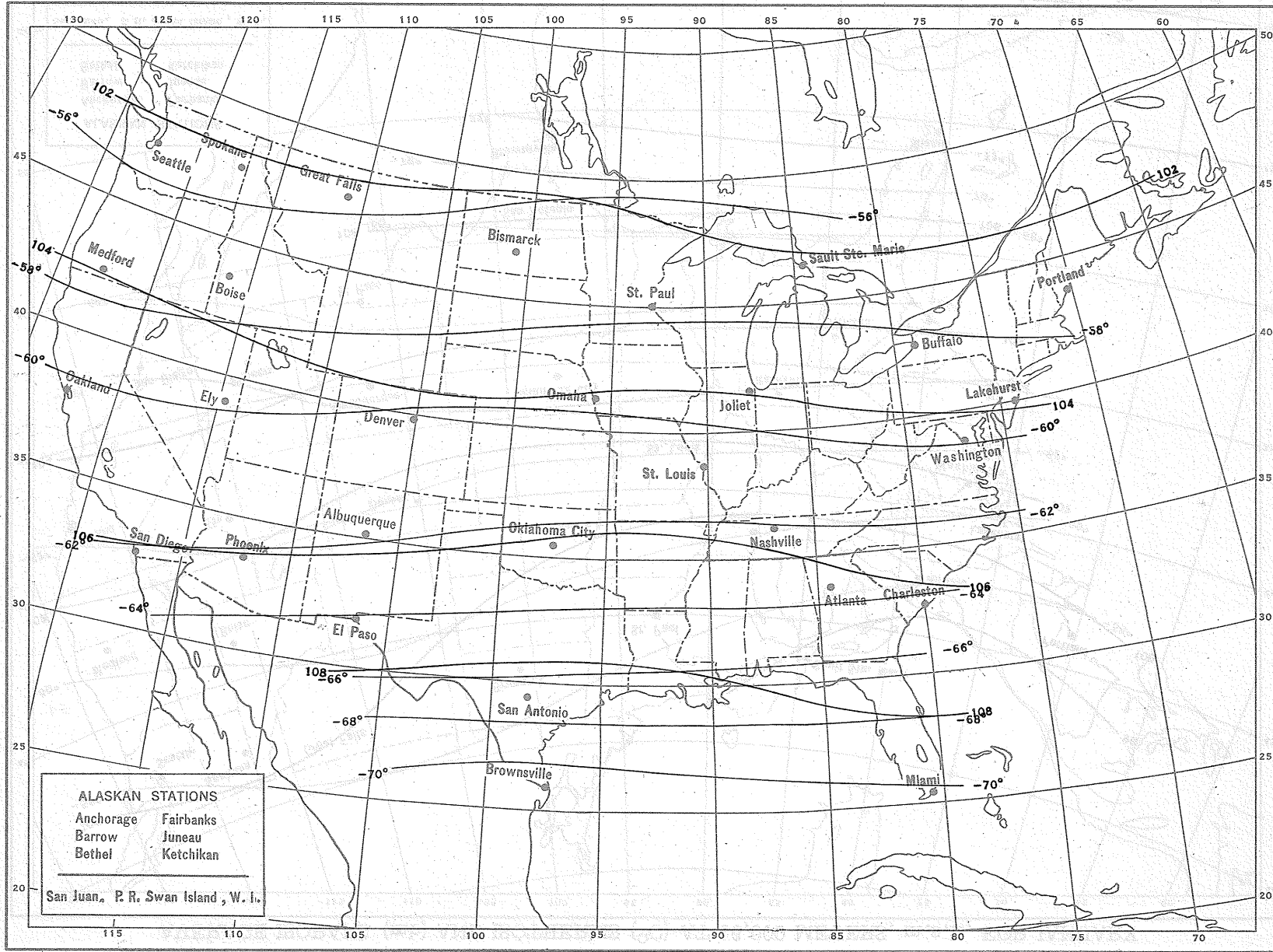
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 13,000 METERS, m.s.l., FOR OCTOBER



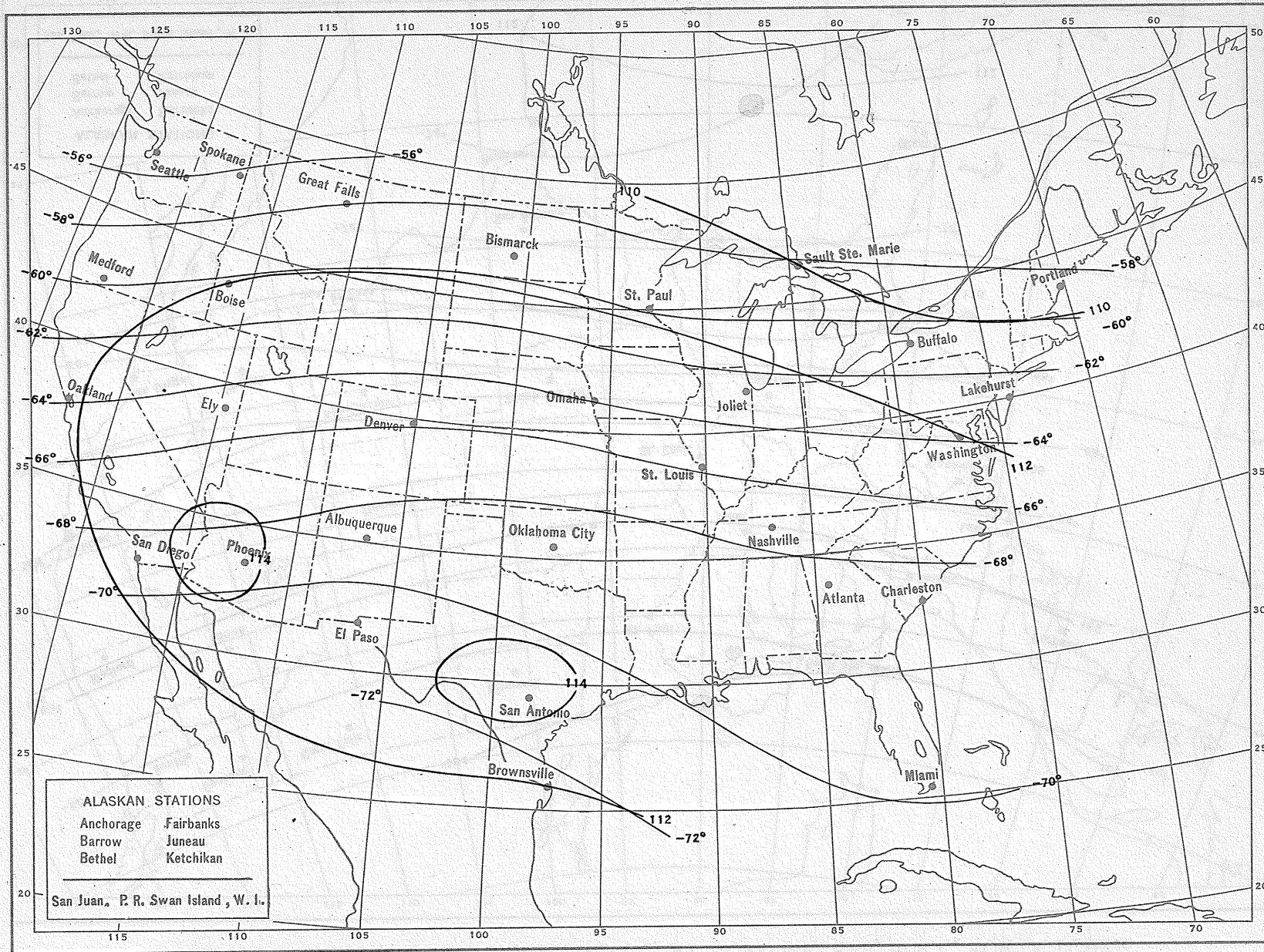
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 16,000 METERS, m.s.l., FOR JANUARY



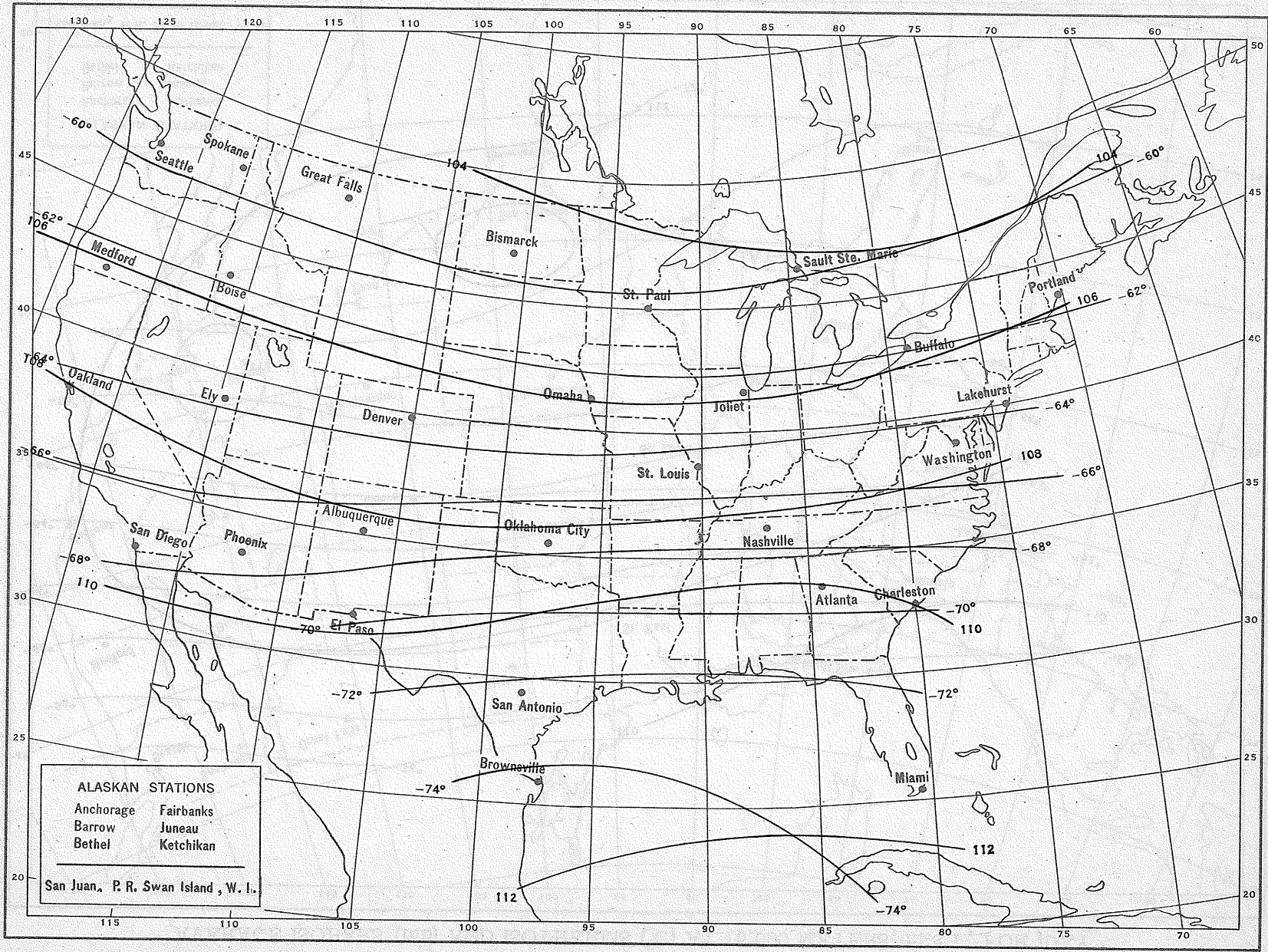
AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 16,000 METERS, m.s.l., FOR APRIL



AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 16,000 METERS, m.s.l., FOR JULY



AVERAGE ISOBARS (mb) AND ISOTHERMS (°C) AT 16,000 METERS, m.s.l., FOR OCTOBER



ALASKAN STATIONS  
 Anchorage Fairbanks  
 Barrow Juneau  
 Bethel Ketchikan

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San Juan, P. R. Swan Island, W. I.