

Klimameßstation AACHEN-HÖRN Geogr. Breite: 50° 47' N Geogr. Länge: 6° 04' E Höhe 198 m ü.NN

Monatsbericht Juli 2020

| Datum | Luftdruck[hPa]<br>in Ortshöhe (222m) |       | Lufttemperatur [°C] |      |      | Erdboden-<br>temperatur [°C] |       | Relative<br>Luftfeuchte [%] |     |     | Dampf-<br>druck<br>Max | Nieder-<br>schlag<br>[mm=l/m²] | Verdun-<br>stung [mm]<br>Summe | Sonnen-<br>schein-<br>dauer (h) | Strahlung [J/cm²] |                    | Wind       |        |          |     |           |     |           |     |
|-------|--------------------------------------|-------|---------------------|------|------|------------------------------|-------|-----------------------------|-----|-----|------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------|--------------------|------------|--------|----------|-----|-----------|-----|-----------|-----|
|       | MAX                                  | MIN   | MIT                 | MAX  | MIN  | 5 cm                         | 50 cm | MIT                         | MAX | MIN |                        |                                |                                |                                 | Global-           | Direkte<br>Sonnen- | Spitzenböe |        | 7.30 Uhr |     | 14.30 Uhr |     | 21.30 Uhr |     |
|       |                                      |       |                     |      |      |                              |       |                             |     |     |                        |                                |                                |                                 |                   |                    | Richtg.    | [km/h] | Ri.[°]   | St. | Ri.[°]    | St. | Ri.[°]    | St. |
| 1     | 983.2                                | 980.6 | 18.1                | 21.0 | 15.2 | 19.9                         | 18.0  | 91                          | 97  | 78  | 21.8                   | 10.3                           | -                              | 1.5                             | 1,313             | 202                | SSW        | 42.2   | 218      | 3   | 213       | 4   | 225       | 2   |
| 2     | 988.8                                | 983.2 | 17.0                | 21.4 | 12.6 | 19.2                         | 18.0  | 80                          | 95  | 67  | 18.9                   | 2.6                            | -                              | 5.0                             | 1,965             | 482                | SW         | 34.2   | 236      | 2   | 210       | 3   | 247       | 2   |
| 3     | 991.8                                | 988.9 | 17.1                | 21.4 | 11.6 | 19.4                         | 17.8  | 77                          | 93  | 59  | 16.8                   | .                              | -                              | 8.0                             | 2,554             | 1,018              | SW         | 37.7   | 223      | 3   | 244       | 3   | 216       | 3   |
| 4     | 991.3                                | 987.3 | 18.6                | 22.8 | 14.2 | 19.8                         | 17.7  | 78                          | 97  | 62  | 19.4                   | 1.0                            | -                              | 2.8                             | 2,270             | 477                | SW         | 51.4   | 220      | 3   | 215       | 4   | 211       | 3   |
| 5     | 987.3                                | 984.8 | 19.7                | 23.3 | 14.7 | 20.4                         | 17.8  | 81                          | 96  | 72  | 21.4                   | 0.2                            | -                              | 4.3                             | 1,795             | 406                | SW         | 55.8   | 222      | 4   | 229       | 4   | 246       | 4   |
| 6     | 995.0                                | 986.9 | 15.8                | 19.6 | 11.0 | 18.9                         | 17.9  | 71                          | 88  | 56  | 14.4                   | 0.1                            | -                              | 8.3                             | 2,673             | 1,295              | WSW        | 51.4   | 251      | 4   | 282       | 4   | 288       | 2   |
| 7     | 995.0                                | 990.2 | 17.3                | 21.1 | 9.6  | 18.7                         | 17.7  | 68                          | 93  | 56  | 14.7                   | .                              | -                              | 5.0                             | 2,167             | 615                | WSW        | 31.2   | 223      | 2   | 242       | 3   | 311       | 1   |
| 8     | 990.5                                | 988.8 | 14.3                | 16.5 | 11.0 | 18.1                         | 17.6  | 96                          | 99  | 77  | 17.9                   | 15.1                           | -                              | 0.0                             | 833               | 1                  | WSW        | 25.3   | 215      | 2   | 232       | 2   | 268       | 1   |
| 9     | 988.8                                | 984.4 | 19.6                | 24.2 | 15.7 | 20.6                         | 17.4  | 84                          | 99  | 64  | 20.5                   | 0.4                            | -                              | 6.8                             | 2,428             | 986                | WSW        | 43.2   | 232      | 2   | 233       | 3   | 61        | 1   |
| 10    | 993.4                                | 982.4 | 16.8                | 22.1 | 13.0 | 20.6                         | 17.7  | 80                          | 95  | 65  | 19.0                   | 0.4                            | -                              | 4.8                             | 2,090             | 631                | W          | 44.3   | 231      | 4   | 280       | 3   | 307       | 1   |
| 11    | 999.6                                | 993.5 | 15.8                | 21.6 | 10.2 | 20.1                         | 17.8  | 74                          | 94  | 52  | 14.7                   | 0.1                            | -                              | 10.7                            | 3,098             | 1,972              | WNW        | 34.8   | 209      | 1   | 312       | 2   | 293       | 1   |
| 12    | 1,001.2                              | 998.8 | 18.3                | 22.7 | 9.3  | 19.5                         | 17.8  | 64                          | 97  | 49  | 15.6                   | .                              | -                              | 13.2                            | 3,571             | 2,397              | E          | 25.3   | 57       | 2   | 179       | 3   | 30        | 2   |
| 13    | 998.8                                | 992.1 | 19.9                | 25.0 | 10.3 | 20.3                         | 17.8  | 60                          | 90  | 45  | 16.2                   | .                              | -                              | 13.7                            | 3,664             | 2,778              | WNW        | 22.2   | 49       | 1   | 153       | 2   | 273       | 2   |
| 14    | 992.0                                | 986.5 | 18.1                | 23.3 | 12.4 | 19.8                         | 17.9  | 73                          | 95  | 40  | 17.5                   | 0.8                            | -                              | 3.3                             | 2,045             | 351                | WSW        | 34.3   | 208      | 2   | 235       | 4   | 225       | 2   |
| 15    | 990.1                                | 986.8 | 16.5                | 20.8 | 12.4 | 20.3                         | 17.9  | 76                          | 96  | 53  | 15.4                   | .                              | -                              | 8.7                             | 2,847             | 1,312              | NW         | 24.9   | 302      | 2   | 300       | 2   | 266       | 1   |
| 16    | 993.3                                | 989.3 | 15.2                | 18.0 | 13.9 | 19.0                         | 18.0  | 93                          | 98  | 88  | 18.3                   | 8.0                            | -                              | 0.0                             | 807               | 7                  | NW         | 27.3   | 220      | 2   | 268       | 2   | 283       | 1   |
| 17    | 994.6                                | 993.1 | 18.0                | 21.4 | 13.9 | 19.9                         | 17.9  | 86                          | 99  | 69  | 18.6                   | 0.1                            | -                              | 1.7                             | 1,963             | 209                | W          | 19.8   | 258      | 1   | 261       | 2   | 263       | 1   |
| 18    | 994.2                                | 989.9 | 22.7                | 26.8 | 13.8 | 21.4                         | 17.9  | 69                          | 98  | 47  | 21.4                   | .                              | -                              | 12.3                            | 3,489             | 2,520              | WSW        | 20.9   | 176      | 1   | 269       | 2   | 0         | 1   |
| 19    | 990.7                                | 988.2 | 22.2                | 27.7 | 15.8 | 21.6                         | 18.2  | 63                          | 94  | 40  | 20.5                   | .                              | -                              | 13.0                            | 3,372             | 1,986              | WSW        | 27.0   | 165      | 3   | 232       | 2   | 299       | 2   |
| 20    | 995.9                                | 990.2 | 17.3                | 21.8 | 12.4 | 19.9                         | 18.4  | 75                          | 96  | 50  | 17.9                   | 0.3                            | -                              | 5.2                             | 1,699             | 592                | SSW        | 22.9   | 110      | 2   | 213       | 2   | 348       | 1   |
| 21    | 997.8                                | 996.0 | 17.2                | 21.9 | 9.9  | 19.7                         | 18.3  | 64                          | 95  | 46  | 15.1                   | .                              | -                              | 13.0                            | 3,673             | 2,803              | SW         | 26.7   | 236      | 2   | 130       | 2   | 345       | 1   |
| 22    | 997.8                                | 993.0 | 17.3                | 22.7 | 9.1  | 19.3                         | 18.1  | 67                          | 93  | 46  | 15.4                   | .                              | -                              | 13.5                            | 3,426             | 2,261              | S          | 25.3   | 274      | 2   | 195       | 2   | 345       | 2   |
| 23    | 993.9                                | 986.4 | 21.8                | 26.5 | 10.3 | 20.1                         | 18.0  | 56                          | 88  | 41  | 15.5                   | .                              | -                              | 12.7                            | 3,567             | 2,924              | SW         | 20.7   | 163      | 1   | 280       | 1   | 167       | 2   |
| 24    | 987.2                                | 985.2 | 19.3                | 24.7 | 16.4 | 21.4                         | 18.1  | 70                          | 90  | 54  | 18.4                   | .                              | -                              | 6.7                             | 2,575             | 1,379              | W          | 30.6   | 230      | 3   | 264       | 3   | 223       | 2   |
| 25    | 987.0                                | 981.6 | 21.4                | 25.5 | 15.5 | 20.6                         | 18.3  | 71                          | 91  | 56  | 19.2                   | 0.8                            | -                              | 2.7                             | 1,788             | 322                | SW         | 38.2   | 211      | 4   | 223       | 3   | 188       | 2   |
| 26    | 990.3                                | 980.8 | 18.3                | 23.7 | 14.8 | 21.1                         | 18.4  | 80                          | 98  | 57  | 19.1                   | 5.1                            | -                              | 8.8                             | 2,443             | 1,000              | W          | 43.2   | 220      | 3   | 254       | 2   | 238       | 1   |
| 27    | 990.2                                | 980.7 | 23.5                | 28.7 | 13.5 | 20.9                         | 18.5  | 59                          | 87  | 40  | 18.0                   | 0.2                            | -                              | 6.5                             | 2,354             | 879                | SSW        | 37.2   | 91       | 3   | 198       | 3   | 210       | 3   |
| 28    | 991.0                                | 982.2 | 18.6                | 23.4 | 14.0 | 21.0                         | 18.5  | 66                          | 84  | 50  | 18.0                   | .                              | -                              | 10.7                            | 2,596             | 1,334              | WSW        | 47.6   | 245      | 4   | 253       | 3   | 297       | 2   |
| 29    | 994.2                                | 991.0 | 17.9                | 22.6 | 11.9 | 19.6                         | 18.5  | 68                          | 88  | 52  | 15.1                   | .                              | -                              | 13.2                            | 3,066             | 1,809              | SW         | 26.7   | 222      | 3   | 281       | 2   | 307       | 2   |
| 30    | 994.2                                | 991.1 | 23.2                | 28.9 | 11.6 | 20.4                         | 18.4  | 53                          | 89  | 38  | 16.0                   | .                              | -                              | 13.8                            | 3,530             | 2,862              | NE         | 18.6   | 116      | 2   | 267       | 2   | 49        | 2   |
| 31    | 991.6                                | 986.1 | 29.0                | 36.4 | 15.3 | 21.8                         | 18.4  | 42                          | 73  | 29  | 19.2                   | .                              | -                              | 14.0                            | 3,599             | 3,181              | ENE        | 22.0   | 95       | 2   | 156       | 1   | c         | 0   |

- = Messung ausgefallen; alle Zeitangaben in mitteleuropäischer Zeit (MEZ)

Niederschlag: die vom Morgen des Datumstages bis zum Morgen des Folgetages gefallene Menge, . = kein Niederschlag, 0.0 = Niederschlag kleiner als 0,1 mm

Wind 7.30, 14.30, 21.30 Uhr: Ri. = Windrichtung [°], St. = Windstärke [Bft], c = Calmen (keine Richtungsangabe möglich) Luftdruck: Angaben nicht auf Meeresspiegelniveau reduziert!

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### Luftdruck in Ortshöhe (222m ü.NN) [hPa]

|              |   |         |    |      |
|--------------|---|---------|----|------|
| Monatsmittel | = | 990.0   |    |      |
| Abs. Maximum | = | 1,001.2 | am | 12 . |
| Abs. Minimum | = | 980.6   | am | 1 .  |

### Lufttemperatur in 2 m Höhe [°C]

|              |   |      |    |      |
|--------------|---|------|----|------|
| Monatsmittel | = | 18.9 |    |      |
| Abs. Maximum | = | 36.4 | am | 31 . |
| Abs. Minimum | = | 9.1  | am | 22 . |

### Relative Luftfeuchte [%]

|                       |   |      |    |      |
|-----------------------|---|------|----|------|
| Monatsmittel          | = | 72   |    |      |
| Abs. Minimum          | = | 29   | am | 31 . |
| Max. Dampfdruck [hPa] | = | 21.8 | am | 1 .  |

### Anzahl der besonderen Tage

|                                 |              |   |    |
|---------------------------------|--------------|---|----|
| Maximum < 0°C                   | (Eistage)    | = | 0  |
| Minimum $\leq$ -10°C            |              | = | 0  |
| Minimum < 0°C                   | (Frosttage)  | = | 0  |
| Maximum $\geq$ +25°C            | (Sommertage) | = | 8  |
| Maximum $\geq$ +30°C            | (heiße Tage) | = | 1  |
| Minimum $\geq$ +15°C            |              | = | 6  |
| Minimum $\geq$ +20°C            |              | = | 0  |
| Max. Dampfdruck $\geq$ 18,8 hPa |              | = | 11 |

### Niederschlag [mm]

|                                |   |      |    |     |
|--------------------------------|---|------|----|-----|
| Monatssumme                    | = | 45.4 |    |     |
| Max in 24 Stunden (7.30-7.30h) | = | 15.1 | am | 8 . |
| Tage mit $\geq$ 0,1 mm         | = | 16   |    |     |
| Tage mit $\geq$ 1 mm           | = | 5    |    |     |
| Tage mit $\geq$ 10 mm          | = | 2    |    |     |
| Tage mit Schneedecke           | = | 0    |    |     |

### Verdunstung [mm]

|             |   |   |  |  |
|-------------|---|---|--|--|
| Monatssumme | = | - |  |  |
|-------------|---|---|--|--|

### Sonnenscheindauer [h]

|                     |   |       |    |      |
|---------------------|---|-------|----|------|
| Monatssumme         | = | 243.8 |    |      |
| maximale Tagessumme | = | 14.0  | am | 31 . |

### Globalstrahlung [J/cm²]

|                     |   |          |    |      |
|---------------------|---|----------|----|------|
| Monatssumme         | = | 79,260.9 |    |      |
| maximale Tagessumme | = | 3,673.3  | am | 21 . |
| minimale Tagessumme | = | 806.8    | am | 16 . |

### Direkte Sonnenstrahlung [J/cm²]

|                     |   |          |    |      |
|---------------------|---|----------|----|------|
| Monatssumme         | = | 40,992.9 |    |      |
| maximale Tagessumme | = | 3,181.4  | am | 31 . |
| minimale Tagessumme | = | 1.0      | am | 8 .  |

### Windverteilung

| aus      | Termin 14.30 h MEZ | an Tagen | [Bft]         |
|----------|--------------------|----------|---------------|
| Richtung |                    |          | Mittl. Stärke |
| N        | 0.0°               | 0        | ---           |
| NNE      | 22.5°              | 0        | ---           |
| NE       | 45.0°              | 0        | ---           |
| ENE      | 67.5°              | 0        | ---           |
| E        | 90.0°              | 0        | ---           |
| ESE      | 112.5°             | 0        | ---           |
| SE       | 135.0°             | 1        | 2.0           |
| SSE      | 157.5°             | 2        | 1.5           |
| S        | 180.0°             | 1        | 3.0           |
| SSW      | 202.5°             | 5        | 2.8           |
| SW       | 225.0°             | 7        | 3.1           |
| WSW      | 247.5°             | 4        | 2.8           |
| W        | 270.0°             | 7        | 2.1           |
| WNW      | 292.5°             | 3        | 2.7           |
| NW       | 315.0°             | 1        | 2.0           |
| NNW      | 337.5°             | 0        | ---           |
| Calmen   |                    | 0        |               |

|                                    |          |   |                              |             |
|------------------------------------|----------|---|------------------------------|-------------|
| Mittl. Stärke / 14 h WOZ /         | =        | 3 |                              |             |
| Max. Stärke / 14 h WOZ /           | =        | 4 | am                           | 1 . *)      |
| Zahl der Tage $\geq$ 6 Bft Spitzen | =        | 8 | 10 - min Mittel (Windtage)=  | 0           |
| Zahl der Tage $\geq$ 8 Bft Spitzen | =        | 0 | 10 - min Mittel (Sturmtage)= | 0           |
| Max. Geschwindigkeit:              | 15.5 m/s | = | 55.8 km/h                    | = 7 Bft     |
| aus SW                             |          |   | am 5. 7. um                  | 10:00 h WOZ |

\*) und an weiteren Tagen