

# ACON - VA/NC/SC

The Atlantic Coast Observer Network: Virginia, North Carolina, South Carolina

## STATION SUMMARY OF CLIMATOLOGICAL DATA - FEBRUARY 2022

OBSERVER: GLEN MARTIN  
(COLUMN S) OBSERVATION TIMES:

ACON STATION ID: Mechanicville, VA

TEMPS RECORDED AT 1700L PRECIP RECORDED AT 1700L

| DENOTATION:                           | (DATA)           | DENOTATION:                             | (DATA)                           |
|---------------------------------------|------------------|-----------------------------------------|----------------------------------|
| A - AVERAGE MAXIMUM TEMPERATURE       | 56.75            | T - TOTAL PRECIPITATION                 | 1.37                             |
| B - AVERAGE MINIMUM TEMPERATURE       | 33.18            | T1 - PRECIPITATION DEPARTURE            | —                                |
| C - AVERAGE TEMPERATURE               | 45.14            | U - MAXIMUM CALENDAR DAY PRECIPITATION  | .27                              |
| C1 - DEPARTURE OF AVERAGE TEMP        | —                | U1 DATE MAX CALENDAR DAY PRECIPITATION  | 5 <sup>th</sup>                  |
| D - MAXIMUM TEMPERATURE               | 76               | V - MAXIMUM 24-HOUR PRECIPITATION       | .48                              |
| E - DATE(S) OF MAXIMUM TEMPERATURE    | 17 <sup>th</sup> | V1 - DATE(S) MAX 24-HOUR PRECIPITATION  | 17 <sup>th</sup> 8 <sup>th</sup> |
| F - MINIMUM TEMPERATURE               | 17               | W - # DAYS PRECIPITATION >= .01"        | 9                                |
| G - DATE(*9s) OF MINIMUM TEMPERATURE  | 15 <sup>th</sup> | X - # DAYS PRECIPITATION >= 1.00"       | 0                                |
| H - # DAYS MAXIMUM TEMPERATURE >= 90° | 0                | Y - YEARLY PRECIPITATION                | 6.60                             |
| I - # DAYS MAXIMUM TEMPERATURE <= 32° | 0                | Z - MAXIMUM CALENDAR DAY SNOWFALL       | 1/8"                             |
| J - # DAYS MINIMUM TEMPERATURE <= 32° | 16               | 1 DATE MAXIMUM CALENDAR DAY SNOWFALL    | 1/8"                             |
| K - # DAYS MINIMUM TEMPERATURE <= 0°  | 0                | 2 - # DAYS WITH SNOWFALL (>= TRACE)     | 1                                |
| K1 - AVERAGE RELATIVE HUMIDITY (%)    | 45.04%           | 3 - # DAYS WITH SNOWFALL >= 1.00"       | 0                                |
| L - MAXIMUM WIND GUST (MPH)           | 24 MPH           | 4 - TOTAL MONTHLY SNOWFALL              | 1/8"                             |
| M - DIRECTION MAXIMUM WIND GUST       | —                | 5 - TOTAL SNOWFALL FOR <u>2021-2022</u> | 8.38                             |
| N - DATE(S) OF MAXIMUM WIND GUST      | 15 <sup>th</sup> | 6 - MAXIMUM BAROMETRIC PRESSURE         | 30.39                            |
| N1 - AVERAGE WIND SPEED (MPH)         | 6.07 MPH         | 6A - DATE MAXIMUM BAROMETRIC PRESSURE   | 15 <sup>th</sup>                 |
| N2 - DOMINANT WIND DIRECTION          | —                | 7 - MINIMUM BAROMETRIC PRESSURE         | 29.67                            |
| O - # DAYS - THUNDERSTORM             | 0                | 7A - DATE MINIMUM BAROMETRIC PRESSURE   | 10 <sup>th</sup>                 |
| P - # DAYS - HAIL                     | 0                | 8 - AVERAGE SEA-LEVEL PRESSURE          | 29.93                            |
| Q - # DAYS - GLAZE                    | 0                | CWA - YOUR NWS COUNTY WARNING AREA      | <b>AKQ</b>                       |
| R - # DAYS - ICE PELLETS (SLEET)      | 1                |                                         |                                  |
| R1 - # DAYS - DENSE FOG (<= 1/4 MILE) | 0                |                                         |                                  |

# WEATHER OBSERVATION DATA

OBSERVER Glen Martin LOCATION McDonna, VA  
 OBSERVATION TIME 1700h MONTH/YEAR FEB/2022

| date | MAX TEMP | MIN TEMP | AVG TEMP | TOTAL PRECIP. | SNOW FALL | SNOW DEPTH | T-ST | HA | TOR | HUR | SN | SLT | FOG | SW | SL | FL | WD | HDP | DRZ | RAIN | TROPST |  |
|------|----------|----------|----------|---------------|-----------|------------|------|----|-----|-----|----|-----|-----|----|----|----|----|-----|-----|------|--------|--|
| 1    | 26       | 23       | 35       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 2    | 54       | 23       | 39       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 3    | 60       | 42       | 51       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 4    | 68       | 49       | 59       | 0.06          |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 5    | 40       | 30       | 35       | 1.27          |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 6    | 40       | 19       | 30       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 7    | 45       | 33       | 39       | 0.32          |           |            |      |    |     |     |    |     |     |    |    |    |    | X   |     |      | X      |  |
| 8    | 47       | 30       | 41       | 0.76          |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      | X      |  |
| 9    | 59       | 35       | 47       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 10   | 66       | 37       | 49       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      | X      |  |
| 11   | 70       | 38       | 50       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 12   | 71       | 43       | 57       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 13   | 47       | 33       | 40       | 0.03          |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 14   | 39       | 25       | 32       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 15   | 45       | 17       | 31       | 0             | 1.72      | 1.72       |      |    |     |     | X  | X   |     |    |    |    |    |     |     |      |        |  |
| 16   | 62       | 23       | 43       | 0             |           |            |      |    |     |     | X  | X   |     |    |    |    |    |     |     |      |        |  |
| 17   | 76       | 52       | 64       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 18   | 68       | 34       | 61       | 0.2           |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 19   | 58       | 24       | 41       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 20   | 50       | 20       | 35       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 21   | 68       | 28       | 48       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 22   | 69       | 53       | 61       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      | X      |  |
| 23   | 71       | 59       | 65       | 0.17          |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 24   | 48       | 31       | 40       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 25   | 65       | 35       | 50       | 0.06          |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 26   | 75       | 34       | 40       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      | X      |  |
| 27   | 54       | 36       | 45       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      | X      |  |
| 28   | 54       | 27       | 43       | 0             |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      | X      |  |
| 29   |          |          |          |               |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 30   |          |          |          |               |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |
| 31   |          |          |          |               |           |            |      |    |     |     |    |     |     |    |    |    |    |     |     |      |        |  |

HIGHEST TEMP AND DATE 76 17th AVG. MO. HIGH 56.75  
 LOWEST TEMP AND DATE 17 15th AVG. MO. LOW 33.18  
 MONTHLY MEAN TEMP 45.14 GREATEST 24 HR PRECIP./DATE .48 7th 28th MO. TOTAL PRECIP. 1.37  
 NUMBER OF T-ST DAYS 0 GREATEST 24 HR SNOWFALL/DATE 1.72 14th MO. TOTAL SNOWFALL 1.72  
 t-st = thunderstorm slt = sleet hdp = heavy down pour hur = hurricane sn = snow sl = sharp lightning  
 ha = hail tor = tornado sw = strong winds fl = flooding wd = wind damage drz = drizzle

Part a

# WEATHER OBSERVATION DATA

OBSERVER Glen Martin LOCATION Meck VA  
 OBSERVATION TIME 1200h MONTH/YEAR Feb / 2022

## Additional Observations Sheet

| date | observations                                                                                       | date | observations                               |
|------|----------------------------------------------------------------------------------------------------|------|--------------------------------------------|
| 1    |                                                                                                    | 17   |                                            |
| 2    |                                                                                                    | 18   | BRIEF SHOWER OVERNIGHT. WINDY              |
| 3    | Light to moderate showers during the day                                                           | 19   |                                            |
| 4    | Light to moderate showers. HEAVY down pour at 1350. Slightly dropping temperature. 22 degree drop. | 20   |                                            |
| 5    | PRECIP FROM RAIN ON THE EVENING AT THE 4TH.                                                        | 21   |                                            |
| 6    |                                                                                                    | 22   | Light showers.                             |
| 7    | Rain melting in around noon.                                                                       | 23   | Light to moderate rain during the morning. |
| 8    | PRECIPITATION EVENING RAIN ON THE 7TH.                                                             | 24   | Light rain overnight                       |
| 9    |                                                                                                    | 25   | Light rain.                                |
| 10   |                                                                                                    | 26   | Light rain during the morning              |
| 11   |                                                                                                    | 27   |                                            |
| 12   |                                                                                                    | 28   |                                            |
| 13   | Light snow during the afternoon with some sleet mixed in.                                          | 29   |                                            |
| 14   | BRIEF SNOW FLURRIES OVERNIGHT. (DUSTING)                                                           | 30   |                                            |
| 15   |                                                                                                    | 31   |                                            |
| 16   | WINDY                                                                                              |      |                                            |

Part b