

A. D. 1654.—Guericke of Magdeburg invented the air-pump; he also gave the first idea of electricity, by means of balls of sulphur; and first thought of using Torricelli's tube as a barometer.

- ☽ First Quarter 1st day, 9h. 55m. evening. s. w.  
 ● Full Moon 8th day, 10h 53m. evening. s.  
 ☾ Last Quarter 16th day, 11h. 24m. even. E.  
 ○ New Moon 24th day, 0h. 15m. evening. s.  
 ☽ First Quarter 31st day 6h 8m. morning. N.

| D. M. | D. W. | CALENDAR, &c.                     | ☉ R. & S.<br>h. m. h. | ☿ R. & S.<br>h. m. h. | ○ plac. | High water.<br>h. m. |
|-------|-------|-----------------------------------|-----------------------|-----------------------|---------|----------------------|
| 1     | Fri   | Circumcision. ☉ per. Cold.        | 7 39 5                | Morn                  | head    | 4 55                 |
| 2     | Sat   | ☿ se. 8 h. 23 m. snow.            | 7 39 5                | 0 18                  | head    | 5 45                 |
| 3     | SU    | 2d sunday after Christmas.        | 7 37 5                | 1 22                  | neck    | 6 36                 |
| 4     | Mo    | Ali. so. 5h 47m morn.             | 7 37 5                | 2 31                  | neck    | 7 23                 |
| 5     | Tu    | Low tides. wind.                  | 7 36 5                | 3 39                  | arm     | 8 21                 |
| 6     | We    | Epiphany.                         | 7 36 5                | 4 43                  | arm     | 9 15                 |
| 7     | Th    | ☾ runs high ☿ rises 3h 46m m.     | 7 35 5                | 5 43                  | arm     | 10 3                 |
| 8     | Fri   | clear                             | 7 34 5                | Rises.                | bre.    | 11 1                 |
| 9     | Sat   | ☾'s latitude 3° 58' s.            | 7 34 5                | 5 28                  | bre.    | 11 53                |
| 10    | SU    | 1st sunday after Epi, mid tides.  | 7 33 5                | 6 28                  | hert.   | Morn                 |
| 11    | Mo    | 7* s so. 8h 5m hard frost.        | 7 32 5                | 7 29                  | hert.   | 0 43                 |
| 12    | Tu    | ☿ rises 6 hours 32 minutes.       | 7 31 5                | 8 30                  | bely    | 1 31                 |
| 13    | We    | Day br 5 42 twi. en 6 18 ☿ 6 ☿    | 7 30 5                | 9 27                  | bely    | 2 16                 |
| 14    | Th    | ☽ ☿                               | 7 30 5                | 10 25                 | bely    | 3 0                  |
| 15    | Fri   | Aliot. so. 5h m ☾ apogee.         | 7 29 5                | 11 22                 | rein    | 3 43                 |
| 16    | Sat   | Quite Low Tides very sharp        | 7 28 5                | Morn                  | rein.   | 4 36                 |
| 17    | SU    | 2d sunday after Epip.             | 7 27 5                | 0 20                  | seer.   | 5 9                  |
| 18    | Mo    |                                   | 7 26 5                | 1 20                  | seer.   | 5 52                 |
| 19    | Tu    | ☾'s ☿ 22° 3' in. ☿                | 7 25 5                | 2 17                  | seer    | 6 36                 |
| 20    | We    | Fab. ☉ en ☿ 7h 2m                 | 7 24 5                | 3 15                  | thig    | 7 24                 |
| 21    | Th    | Agn ☾ runs low.                   | 7 23 5                | 4 13                  | thig    | 8 14                 |
| 22    | Fri   | Vinc. ☿ se 8h 31m a snow          | 7 21 5                | 5 11                  | kne     | 9 8                  |
| 23    | Sat   | ☾'s lat 4° 15' N storm.           | 7 20 5                | 6 2                   | kne     | 10 2                 |
| 24    | SU    | 3d sun after Epi. sir. so. 10h 9m | 7 19 5                | Sets.                 | leg     | 10 58                |
| 25    | Mo    | Con of st. Paul. ☿ rises 5h 31' m | 7 18 5                | 6 16                  | leg     | 11 55                |
| 26    | Tu    | ☿ ☉ storm                         | 7 17 5                | 7 23                  | feet    | ev. 50               |
| 27    | We    | ☿ gr elong. ☾ in. ☿ High tides.   | 7 16 5                | 8 39                  | feet    | 1 45                 |
| 28    | Th    | Ali. so 4h 5m m ☾ p.              | 7 15 5                | 9 52                  | head    | 2 30                 |
| 29    | Fri   | Spica ri. 11h 5m Geo IV or 1820   | 7 14 5                | 11 4                  | head    | 3 33                 |
| 30    | Sat   | ☾'s lat 3° 40' s. Chs Libeh 1649  | 7 12 5                | Morn                  | neck    | 4 26                 |
| 31    | SU    | 4th sunday after Epiphany         | 7 11 5                | 0 14                  | neck    | 5 18                 |