

| Historical IDF, 2015 Update to Observational Records |                         |       |       |       |       |        |
|------------------------------------------------------|-------------------------|-------|-------|-------|-------|--------|
| Duration                                             | Return Interval (years) |       |       |       |       |        |
|                                                      | 2                       | 5     | 10    | 25    | 50    | 100    |
| 5 min                                                | 3.69                    | 5.53  | 6.74  | 8.28  | 9.42  | 10.55  |
| 10 min                                               | 5.24                    | 7.6   | 9.17  | 11.14 | 12.6  | 14.06  |
| 15 min                                               | 6.04                    | 8.57  | 10.25 | 12.36 | 13.93 | 15.49  |
| 30 min                                               | 7.46                    | 10.41 | 12.37 | 14.84 | 16.67 | 18.49  |
| 1 hour                                               | 10.07                   | 13.41 | 15.62 | 18.42 | 20.49 | 22.55  |
| 2 hour                                               | 13.4                    | 17.38 | 20.02 | 23.34 | 25.81 | 28.26  |
| 6 hour                                               | 22.36                   | 28.84 | 33.12 | 38.54 | 42.56 | 46.54  |
| 12 hour                                              | 28.85                   | 37.08 | 42.53 | 49.41 | 54.51 | 59.58  |
| 24 hour                                              | 36.72                   | 48.76 | 56.73 | 66.81 | 74.28 | 81.7   |
| Projected IDF Data, 2041-2070                        |                         |       |       |       |       |        |
| Duration                                             | Return Interval (years) |       |       |       |       |        |
|                                                      | 2                       | 5     | 10    | 25    | 50    | 100    |
| 5 min                                                | 4.95                    | 7.25  | 8.78  | 10.72 | 12.15 | 13.57  |
| 10 min                                               | 6.86                    | 9.82  | 11.79 | 14.72 | 16.12 | 17.94  |
| 15 min                                               | 7.77                    | 10.95 | 13.06 | 15.72 | 17.69 | 19.65  |
| 30 min                                               | 9.48                    | 13.19 | 15.65 | 18.76 | 21.07 | 23.36  |
| 1 hour                                               | 12.35                   | 16.56 | 19.34 | 22.85 | 25.46 | 28.05  |
| 2 hour                                               | 16.12                   | 21.13 | 24.44 | 28.63 | 31.73 | 34.82  |
| 6 hour                                               | 26.78                   | 34.93 | 40.32 | 47.13 | 52.19 | 57.21  |
| 12 hour                                              | 34.47                   | 44.82 | 51.67 | 60.33 | 66.75 | 73.13  |
| 24 hour                                              | 44.94                   | 60.09 | 70.12 | 82.8  | 92.2  | 101.53 |
| Projected IDF Data, 2071-2100                        |                         |       |       |       |       |        |
| Duration                                             | Return Interval (years) |       |       |       |       |        |
|                                                      | 2                       | 5     | 10    | 25    | 50    | 100    |
| 5 min                                                | 5.58                    | 7.95  | 9.52  | 11.5  | 12.97 | 14.43  |
| 10 min                                               | 7.67                    | 10.72 | 12.73 | 15.28 | 17.17 | 19.04  |
| 15 min                                               | 8.64                    | 11.91 | 14.07 | 16.8  | 18.82 | 20.83  |
| 30 min                                               | 10.5                    | 14.31 | 16.83 | 20.02 | 22.39 | 24.73  |
| 1 hour                                               | 13.51                   | 17.82 | 20.67 | 24.28 | 26.95 | 29.6   |
| 2 hour                                               | 17.49                   | 22.63 | 26.03 | 30.32 | 33.51 | 36.67  |
| 6 hour                                               | 29.02                   | 37.37 | 42.9  | 49.89 | 55.08 | 60.22  |
| 12 hour                                              | 37.31                   | 47.93 | 54.95 | 63.83 | 70.42 | 76.96  |
| 24 hour                                              | 49.1                    | 64.64 | 74.93 | 87.93 | 97.58 | 107.15 |

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| Duration                                             | Return Interval (years) |       |       |       |       |       |
|                                                      | 2                       | 5     | 10    | 25    | 50    | 100   |
| 5 min                                                | 3.69                    | 5.53  | 6.74  | 8.28  | 9.42  | 10.55 |
| 10 min                                               | 5.24                    | 7.6   | 9.17  | 11.14 | 12.6  | 14.06 |
| 15 min                                               | 6.04                    | 8.57  | 10.25 | 12.36 | 13.93 | 15.49 |
| 30 min                                               | 7.46                    | 10.41 | 12.37 | 14.84 | 16.67 | 18.49 |
| 1 hour                                               | 10.07                   | 13.41 | 15.62 | 18.42 | 20.49 | 22.55 |
| 2 hour                                               | 13.4                    | 17.38 | 20.02 | 23.34 | 25.81 | 28.26 |
| 6 hour                                               | 22.36                   | 28.84 | 33.12 | 38.54 | 42.56 | 46.54 |
| 12 hour                                              | 28.85                   | 37.08 | 42.53 | 49.41 | 54.51 | 59.58 |
| 24 hour                                              | 36.72                   | 48.76 | 56.73 | 66.81 | 74.28 | 81.7  |
| 10th Percentile of Projection Ensemble, 2041-2070    |                         |       |       |       |       |       |
| Duration                                             | Return Interval (years) |       |       |       |       |       |
|                                                      | 2                       | 5     | 10    | 25    | 50    | 100   |
| 5 min                                                | 4.43                    | 6.24  | 7.44  | 8.96  | 10.08 | 11.2  |
| 10 min                                               | 6.19                    | 8.52  | 10.07 | 12.02 | 13.46 | 14.9  |
| 15 min                                               | 7.06                    | 9.56  | 11.21 | 13.3  | 14.85 | 16.39 |
| 30 min                                               | 8.65                    | 11.56 | 13.5  | 15.93 | 17.74 | 19.54 |
| 1 hour                                               | 11.42                   | 14.72 | 16.9  | 19.66 | 21.7  | 23.73 |
| 2 hour                                               | 15                      | 18.93 | 21.53 | 24.82 | 27.25 | 29.67 |
| 6 hour                                               | 24.97                   | 31.36 | 35.59 | 40.94 | 44.9  | 48.84 |
| 12 hour                                              | 32.16                   | 40.29 | 45.66 | 52.46 | 57.5  | 62.5  |
| 24 hour                                              | 41.56                   | 53.46 | 61.33 | 71.27 | 78.65 | 85.97 |
| 10th Percentile of Projection Ensemble, 2071-2100    |                         |       |       |       |       |       |
| Duration                                             | Return Interval (years) |       |       |       |       |       |
|                                                      | 2                       | 5     | 10    | 25    | 50    | 100   |
| 5 min                                                | 4.74                    | 6.74  | 8.06  | 9.71  | 10.94 | 12.16 |
| 10 min                                               | 6.59                    | 9.16  | 10.86 | 12.98 | 14.56 | 16.12 |
| 15 min                                               | 7.48                    | 10.24 | 12.06 | 14.34 | 16.03 | 17.7  |
| 30 min                                               | 9.14                    | 12.37 | 14.49 | 17.15 | 19.12 | 21.08 |
| 1 hour                                               | 11.97                   | 15.62 | 18.02 | 21.03 | 23.26 | 25.47 |
| 2 hour                                               | 15.67                   | 20.01 | 22.87 | 26.45 | 29.11 | 31.75 |
| 6 hour                                               | 26.05                   | 33.12 | 37.77 | 43.6  | 47.92 | 52.21 |
| 12 hour                                              | 33.54                   | 42.52 | 48.43 | 55.84 | 61.33 | 66.78 |
| 24 hour                                              | 43.57                   | 56.72 | 65.38 | 76.22 | 84.26 | 92.24 |

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| Duration                                             | Return Interval (years) |       |       |        |        |        |
|                                                      | 2                       | 5     | 10    | 25     | 50     | 100    |
| 5 min                                                | 3.69                    | 5.53  | 6.74  | 8.28   | 9.42   | 10.55  |
| 10 min                                               | 5.24                    | 7.6   | 9.17  | 11.14  | 12.6   | 14.06  |
| 15 min                                               | 6.04                    | 8.57  | 10.25 | 12.36  | 13.93  | 15.49  |
| 30 min                                               | 7.46                    | 10.41 | 12.37 | 14.84  | 16.67  | 18.49  |
| 1 hour                                               | 10.07                   | 13.41 | 15.62 | 18.42  | 20.49  | 22.55  |
| 2 hour                                               | 13.4                    | 17.38 | 20.02 | 23.34  | 25.81  | 28.26  |
| 6 hour                                               | 22.36                   | 28.84 | 33.12 | 38.54  | 42.56  | 46.54  |
| 12 hour                                              | 28.85                   | 37.08 | 42.53 | 49.41  | 54.51  | 59.58  |
| 24 hour                                              | 36.72                   | 48.76 | 56.73 | 66.81  | 74.28  | 81.7   |
| 90th Percentile of Projection Ensemble, 2041-2070    |                         |       |       |        |        |        |
| Duration                                             | Return Interval (years) |       |       |        |        |        |
|                                                      | 2                       | 5     | 10    | 25     | 50     | 100    |
| 5 min                                                | 5.59                    | 8.65  | 10.67 | 13.23  | 15.13  | 17.01  |
| 10 min                                               | 7.69                    | 11.62 | 14.22 | 17.51  | 19.95  | 22.37  |
| 15 min                                               | 8.66                    | 12.87 | 15.66 | 19.19  | 21.8   | 24.4   |
| 30 min                                               | 10.52                   | 15.44 | 18.69 | 22.81  | 25.86  | 28.9   |
| 1 hour                                               | 13.53                   | 19.09 | 22.77 | 27.43  | 30.88  | 34.31  |
| 2 hour                                               | 17.52                   | 24.15 | 28.54 | 34.08  | 38.19  | 42.27  |
| 6 hour                                               | 29.06                   | 39.85 | 46.99 | 56.01  | 62.7   | 69.34  |
| 12 hour                                              | 37.37                   | 51.07 | 60.14 | 71.6   | 80.11  | 88.55  |
| 24 hour                                              | 49.18                   | 69.24 | 82.52 | 99.3   | 111.75 | 124.11 |
| 90th Percentile of Projection Ensemble, 2071-2100    |                         |       |       |        |        |        |
| Duration                                             | Return Interval (years) |       |       |        |        |        |
|                                                      | 2                       | 5     | 10    | 25     | 50     | 100    |
| 5 min                                                | 7.16                    | 9.83  | 11.6  | 13.84  | 15.62  | 17.45  |
| 10 min                                               | 9.7                     | 13.14 | 15.41 | 18.29  | 20.58  | 22.93  |
| 15 min                                               | 10.82                   | 14.5  | 16.94 | 20.02  | 22.48  | 24.99  |
| 30 min                                               | 13.04                   | 17.34 | 20.19 | 23.79  | 26.66  | 29.6   |
| 1 hour                                               | 16.38                   | 21.24 | 24.46 | 28.53  | 31.78  | 35.1   |
| 2 hour                                               | 20.92                   | 26.71 | 30.54 | 35.39  | 39.26  | 43.21  |
| 6 hour                                               | 34.59                   | 44.01 | 50.26 | 58.14  | 64.44  | 70.88  |
| 12 hour                                              | 44.39                   | 56.36 | 64.3  | 74.32  | 82.32  | 90.49  |
| 24 hour                                              | 59.46                   | 77    | 88.61 | 103.28 | 114.99 | 126.96 |