

**Appendix A.8. Average L-moment statistics and heterogeneity measures for regions used to prepare NOAA Atlas 14 Volume 1.**

Table A.8.1. Number of daily and hourly stations, H1 statistic, mean number of data years, and weighted L-statistics of 24-hour data for each daily region and at-site.

| region | # daily stations | # hourly stations | H1    | Mean number of data years* | Coeff. of L-variation Weighted Mean | L-Skewness Weighted Mean | L-Kurtosis Weighted Mean |
|--------|------------------|-------------------|-------|----------------------------|-------------------------------------|--------------------------|--------------------------|
| 1      | 11               | 2                 | 1.39  | 47                         | 0.193                               | 0.202                    | 0.168                    |
| 2      | 13               | 5                 | 1.73  | 62                         | 0.228                               | 0.252                    | 0.201                    |
| 3      | 20               | 4                 | 1.77  | 44                         | 0.219                               | 0.211                    | 0.169                    |
| 4      | 35               | 9                 | 0.88  | 49                         | 0.199                               | 0.203                    | 0.171                    |
| 5      | 25               | 3                 | 1.01  | 56                         | 0.193                               | 0.204                    | 0.172                    |
| 6      | 34               | 6                 | 1.8   | 56                         | 0.181                               | 0.206                    | 0.181                    |
| 7      | 10               | 3                 | 0.93  | 45                         | 0.236                               | 0.222                    | 0.163                    |
| 8      | 45               | 27                | 0.4   | 49                         | 0.188                               | 0.185                    | 0.155                    |
| 9      | 11               | 6                 | 1.74  | 53                         | 0.211                               | 0.224                    | 0.174                    |
| 10     | 25               | 11                | 1.07  | 47                         | 0.239                               | 0.203                    | 0.178                    |
| 11     | 48               | 15                | 1.17  | 48                         | 0.215                               | 0.208                    | 0.173                    |
| 12     | 17               | 4                 | 1.33  | 48                         | 0.198                               | 0.181                    | 0.166                    |
| 13     | 31               | 6                 | 1.74  | 54                         | 0.173                               | 0.173                    | 0.173                    |
| 14     | 28               | 7                 | 0.31  | 54                         | 0.167                               | 0.187                    | 0.155                    |
| 15     | 45               | 14                | 1.63  | 49                         | 0.197                               | 0.227                    | 0.183                    |
| 16     | 57               | 11                | 1.65  | 64                         | 0.186                               | 0.191                    | 0.174                    |
| 17     | 27               | 17                | 0.33  | 47                         | 0.230                               | 0.254                    | 0.205                    |
| 18     | 9                | 3                 | 1.23  | 46                         | 0.328                               | 0.254                    | 0.169                    |
| 19     | 16               | 5                 | 0.56  | 40                         | 0.265                               | 0.142                    | 0.159                    |
| 20     | 7                | 1                 | -1.22 | 47                         | 0.286                               | 0.275                    | 0.220                    |
| 21     | 36               | 12                | -0.6  | 50                         | 0.204                               | 0.188                    | 0.169                    |
| 22     | 28               | 4                 | -0.25 | 61                         | 0.184                               | 0.199                    | 0.179                    |
| 23     | 17               | 3                 | -0.52 | 55                         | 0.200                               | 0.204                    | 0.164                    |
| 24     | 12               | 3                 | 0.38  | 53                         | 0.238                               | 0.227                    | 0.185                    |
| 25     | 20               | 2                 | 0.38  | 39                         | 0.180                               | 0.168                    | 0.147                    |
| 26     | 17               | 2                 | 1.06  | 62                         | 0.194                               | 0.218                    | 0.179                    |
| 27     | 14               | 9                 | 0.76  | 48                         | 0.239                               | 0.164                    | 0.127                    |
| 28     | 29               | 19                | -1.23 | 43                         | 0.269                               | 0.226                    | 0.175                    |
| 29     | 6                | 5                 | -0.58 | 46                         | 0.268                               | 0.248                    | 0.211                    |
| 30     | 22               | 9                 | 0.43  | 43                         | 0.286                               | 0.195                    | 0.140                    |
| 31     | 80               | 51                | 0.37  | 51                         | 0.252                               | 0.186                    | 0.134                    |
| 32     | 31               | 24                | 2.21  | 44                         | 0.242                               | 0.231                    | 0.162                    |
| 33     | 17               | 9                 | 0.75  | 55                         | 0.349                               | 0.252                    | 0.206                    |
| 34     | 21               | 11                | 0.17  | 43                         | 0.265                               | 0.218                    | 0.189                    |
| 35     | 6                | 1                 | 0.37  | 44                         | 0.239                               | 0.248                    | 0.181                    |
| 36     | 35               | 4                 | 1.43  | 53                         | 0.196                               | 0.199                    | 0.164                    |
| 37     | 51               | 7                 | 0.87  | 49                         | 0.213                               | 0.213                    | 0.172                    |
| 38     | 18               | 3                 | 0.31  | 61                         | 0.175                               | 0.180                    | 0.162                    |
| 39     | 55               | 13                | 1.16  | 54                         | 0.196                               | 0.208                    | 0.166                    |

| region       | # daily stations | # hourly stations | H1    | Mean number of data years* | Coeff. of L-variation Weighted Mean | L-Skewness Weighted Mean | L-Kurtosis Weighted Mean |
|--------------|------------------|-------------------|-------|----------------------------|-------------------------------------|--------------------------|--------------------------|
| 40           | 11               | 1                 | -0.5  | 51                         | 0.350                               | 0.254                    | 0.183                    |
| 41           | 6                | 4                 | -0.02 | 46                         | 0.226                               | 0.203                    | 0.186                    |
| 42           | 36               | 17                | 1.53  | 45                         | 0.228                               | 0.206                    | 0.157                    |
| 43           | 15               | 6                 | 0.77  | 53                         | 0.198                               | 0.202                    | 0.169                    |
| 44           | 26               | 5                 | -0.06 | 49                         | 0.186                               | 0.183                    | 0.165                    |
| 45           | 59               | 26                | 0.11  | 49                         | 0.196                               | 0.182                    | 0.168                    |
| 46           | 4                | 2                 | -0.52 | 53                         | 0.223                               | 0.299                    | 0.207                    |
| 47           | 29               | 8                 | 0.91  | 54                         | 0.220                               | 0.221                    | 0.182                    |
| 48           | 33               | 12                | 1.51  | 50                         | 0.250                               | 0.223                    | 0.152                    |
| 49           | 42               | 11                | 0.6   | 52                         | 0.222                               | 0.223                    | 0.165                    |
| 50           | 23               | 3                 | 0.78  | 51                         | 0.215                               | 0.223                    | 0.192                    |
| 51           | 13               | 2                 | 0.39  | 53                         | 0.200                               | 0.205                    | 0.187                    |
| 52           | 26               | 2                 | 0.89  | 51                         | 0.194                               | 0.184                    | 0.144                    |
| 53           | 25               | 6                 | -0.25 | 47                         | 0.198                               | 0.166                    | 0.139                    |
| 54           | 6                | 1                 | -0.76 | 63                         | 0.237                               | 0.277                    | 0.187                    |
| 55           | 16               | 9                 | -0.62 | 51                         | 0.224                               | 0.163                    | 0.132                    |
| 56           | 19               | 8                 | -1.17 | 50                         | 0.256                               | 0.247                    | 0.206                    |
| 57           | 7                | 2                 | 0.29  | 40                         | 0.280                               | 0.268                    | 0.198                    |
| 58           | 4                | 1                 | -0.15 | 43                         | 0.307                               | 0.235                    | 0.113                    |
| 59           | 8                | 2                 | -0.28 | 54                         | 0.222                               | 0.177                    | 0.161                    |
| A1           | 1                | 0                 | N/A   | 53                         | 0.323                               | 0.345                    | 0.241                    |
| A2           | 1                | 1                 | N/A   | 53                         | 0.252                               | 0.277                    | 0.175                    |
| A3           | 1                | 0                 | N/A   | 102                        | 0.276                               | 0.289                    | 0.267                    |
| A4           | 1                | 0                 | N/A   | 109                        | 0.243                               | 0.308                    | 0.228                    |
| A5           | 1                | 0                 | N/A   | 108                        | 0.256                               | 0.343                    | 0.285                    |
| A6           | 2                | 0                 | N/A   | 59                         | 0.265                               | 0.267                    | 0.165                    |
| <b>total</b> | <b>1444</b>      | <b>479</b>        |       | <b>50</b>                  |                                     |                          |                          |

\*includes both daily and hourly stations

Table A.8.2. Number of hourly stations, H1 statistic, mean number of data years, and weighted L-statistics of 60-minute data for each hourly region.

| region | # hourly stations | H1    | Mean number of data years* | Coeff. of L-variation Weighted Mean | L-Skewness Weighted Mean | L-Kurtosis Weighted Mean |
|--------|-------------------|-------|----------------------------|-------------------------------------|--------------------------|--------------------------|
| 1      | 6                 | 0.57  | 40                         | 0.265                               | 0.354                    | 0.268                    |
| 2      | 14                | -1.20 | 41                         | 0.266                               | 0.309                    | 0.190                    |
| 3      | 14                | 0.82  | 34                         | 0.281                               | 0.318                    | 0.233                    |
| 4      | 16                | 2.12  | 35                         | 0.281                               | 0.316                    | 0.229                    |
| 5      | 12                | 0.07  | 35                         | 0.261                               | 0.318                    | 0.219                    |
| 6      | 10                | 1.08  | 37                         | 0.275                               | 0.319                    | 0.220                    |
| 7      | 16                | 1.79  | 41                         | 0.308                               | 0.292                    | 0.194                    |
| 8      | 27                | -0.50 | 34                         | 0.262                               | 0.243                    | 0.172                    |
| 9      | 12                | 2.25  | 41                         | 0.263                               | 0.246                    | 0.178                    |

| <b>region</b> | <b>#<br/>hourly<br/>stations</b> | <b>H1</b> | <b>Mean<br/>number of<br/>data<br/>years*</b> | <b>Coeff. of L-<br/>variation<br/>Weighted<br/>Mean</b> | <b>L-Skewness<br/>Weighted<br/>Mean</b> | <b>L-Kurtosis<br/>Weighted<br/>Mean</b> |
|---------------|----------------------------------|-----------|---|---|---|---|
| 10E           | 12                               | 1.00      | 29  | 0.269   | 0.167                                   | 0.115                                   |
| 10W           | 17                               | 1.02      | 36  | 0.392   | 0.318                                   | 0.200                                   |
| 11            | 26                               | 0.93      | 24  | 0.263   | 0.214                                   | 0.168                                   |
| 12            | 17                               | 2.55      | 33  | 0.240   | 0.176                                   | 0.145                                   |
| 13            | 43                               | 1.05      | 37  | 0.259   | 0.181                                   | 0.130                                   |
| 14            | 45                               | 1.00      | 41  | 0.254   | 0.184                                   | 0.152                                   |
| 15            | 80                               | 1.38      | 40  | 0.231   | 0.235                                   | 0.196                                   |
| 16            | 25                               | 0.16      | 32  | 0.200   | 0.337                                   | 0.269                                   |
| 17            | 12                               | -0.64     | 44  | 0.265   | 0.390                                   | 0.270                                   |
| 18            | 4                                | 1.97      | 41  | 0.277   | 0.288                                   | 0.154                                   |
| 19            | 5                                | 2.39      | 36  | 0.259   | 0.254                                   | 0.174                                   |
| 20            | 22                               | 2.59      | 40  | 0.217   | 0.273                                   | 0.200                                   |
| 21            | 15                               | 3.49      | 42  | 0.274   | 0.304                                   | 0.203                                   |
| 22            | 19                               | 2.50      | 35  | 0.219   | 0.225                                   | 0.176                                   |
| 23            | 7                                | -0.48     | 40  | 0.253   | 0.330                                   | 0.204                                   |
| 24            | 11                               | 1.12      | 41  | 0.224   | 0.312                                   | 0.243                                   |
| <b>total</b>  | <b>487</b>                       | <b>37</b> |   |   |   |   |