

# La.Paz

Statistics for BOL\_IWEC

Location -- LA PAZ - BOL

{S 16 31'} {W 68 10'} {GMT -4.0 Hours}

Elevation -- 4042m above sea level

Standard Pressure at Elevation -- 61303Pa

- Monthly Statistics for Dry Bulb temperatures C

|           | Jan   | Feb  | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|-----------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum   | 18.0  | 18.0 | 18.0  | 17.0  | 17.0  | 15.0  | 18.0  | 16.0  | 18.0  | 18.8  | 18.0  | 19.2  |
| Day:Hour  | 30:16 | 8:16 | 1:15  | 27:15 | 5:15  | 3:15  | 12:10 | 25:16 | 20:15 | 29:14 | 26:15 | 16:17 |
| Minimum   | 2.0   | 2.0  | 0.8   | 0.0   | -4.0  | -4.0  | -7.6  | -8.0  | -3.0  | 0.0   | 1.0   | 0.0   |
| Day:Hour  | 3:06  | 5:06 | 31:05 | 27:07 | 31:07 | 14:06 | 26:07 | 9:06  | 10:05 | 1:06  | 27:06 | 7:16  |
| Daily Avg | 7.9   | 8.3  | 7.9   | 7.1   | 6.7   | 4.7   | 4.4   | 5.5   | 6.9   | 8.1   | 8.2   | 8.5   |

- Maximum Dry Bulb temperature of 19.2 C on Dec 16

- Minimum Dry Bulb temperature of -8.0 C on Aug 9

- Average Hourly Statistics for Dry Bulb temperatures C

|             | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0:01- 1:00  | 5.7  | 5.6  | 5.6  | 3.7  | 2.9  | 0.5  | 0.3  | 1.1  | 2.6  | 4.2  | 5.3  | 5.4  |
| 1:01- 2:00  | 5.4  | 5.2  | 5.4  | 3.4  | 2.5  | 0.0  | 0.0  | 0.7  | 2.1  | 3.3  | 5.0  | 5.1  |
| 2:01- 3:00  | 5.0  | 5.0  | 5.1  | 3.1  | 1.9  | -0.5 | -0.7 | 0.2  | 1.7  | 2.9  | 4.6  | 4.6  |
| 3:01- 4:00  | 4.9  | 4.7  | 4.9  | 3.1  | 1.4  | -1.0 | -1.3 | -0.4 | 1.1  | 2.6  | 4.4  | 4.6  |
| 4:01- 5:00  | 4.6  | 4.6  | 4.5  | 2.7  | 1.0  | -1.5 | -1.8 | -0.8 | 0.7  | 1.9  | 4.0  | 4.4  |
| 5:01- 6:00  | 4.4  | 4.4  | 4.3  | 2.6  | 1.2  | -1.5 | -2.1 | -1.1 | 0.3  | 1.6  | 4.0  | 4.2  |
| 6:01- 7:00  | 4.5  | 4.5  | 4.3  | 2.5  | 1.5  | -1.1 | -2.4 | -0.8 | 0.7  | 3.7  | 4.8  | 4.9  |
| 7:01- 8:00  | 6.1  | 5.9  | 5.7  | 4.6  | 3.3  | 0.8  | -1.0 | 0.9  | 4.3  | 6.6  | 6.5  | 6.8  |
| 8:01- 9:00  | 7.8  | 8.0  | 7.7  | 7.1  | 6.5  | 4.1  | 2.6  | 5.0  | 7.5  | 8.7  | 8.2  | 8.6  |
| 9:01-10:00  | 8.8  | 9.5  | 9.1  | 8.9  | 9.0  | 6.8  | 6.3  | 7.6  | 9.8  | 10.5 | 9.7  | 9.7  |
| 10:01-11:00 | 9.9  | 10.5 | 10.1 | 10.6 | 10.8 | 8.7  | 7.9  | 9.7  | 11.1 | 12.0 | 11.0 | 10.9 |
| 11:01-12:00 | 11.0 | 11.5 | 11.1 | 11.3 | 11.5 | 10.2 | 9.7  | 11.2 | 12.5 | 13.4 | 11.8 | 12.1 |
| 12:01-13:00 | 11.6 | 11.9 | 11.4 | 12.0 | 12.2 | 11.3 | 10.7 | 12.2 | 13.8 | 14.1 | 12.4 | 12.9 |
| 13:01-14:00 | 11.9 | 12.3 | 12.2 | 12.6 | 13.2 | 12.0 | 11.6 | 12.9 | 14.3 | 14.6 | 12.2 | 13.3 |
| 14:01-15:00 | 11.7 | 12.9 | 11.9 | 12.3 | 13.4 | 12.2 | 12.2 | 12.8 | 13.8 | 14.4 | 12.7 | 13.9 |
| 15:01-16:00 | 11.7 | 12.9 | 11.7 | 11.7 | 13.3 | 11.7 | 12.2 | 12.5 | 13.7 | 13.8 | 12.7 | 13.2 |
| 16:01-17:00 | 11.0 | 12.3 | 11.2 | 11.3 | 12.7 | 11.1 | 11.3 | 11.6 | 12.6 | 13.3 | 12.4 | 12.6 |
| 17:01-18:00 | 10.4 | 11.8 | 10.3 | 10.5 | 10.5 | 9.4  | 9.9  | 9.9  | 10.6 | 11.7 | 11.4 | 11.4 |
| 18:01-19:00 | 9.5  | 9.7  | 8.8  | 8.4  | 7.6  | 6.3  | 6.9  | 7.8  | 8.1  | 9.2  | 9.6  | 9.8  |
| 19:01-20:00 | 8.3  | 8.5  | 7.8  | 7.2  | 6.3  | 4.4  | 5.0  | 5.9  | 6.8  | 8.0  | 8.3  | 8.7  |
| 20:01-21:00 | 7.5  | 7.6  | 7.2  | 6.3  | 5.5  | 3.4  | 3.3  | 4.6  | 5.8  | 7.1  | 7.6  | 7.7  |
| 21:01-22:00 | 6.8  | 7.0  | 6.7  | 5.4  | 4.5  | 2.4  | 2.4  | 3.6  | 4.8  | 6.1  | 6.7  | 6.8  |
| 22:01-23:00 | 6.3  | 6.4  | 6.3  | 4.8  | 3.8  | 1.5  | 1.6  | 2.7  | 3.9  | 5.5  | 6.1  | 6.4  |
| 23:01-24:00 | 5.9  | 5.8  | 5.8  | 4.1  | 3.2  | 1.1  | 0.9  | 1.9  | 3.2  | 4.9  | 5.7  | 6.0  |
| Max Hour    | 14   | 15   | 14   | 14   | 15   | 15   | 15   | 14   | 14   | 14   | 15   | 15   |
| Min Hour    | 6    | 6    | 7    | 7    | 5    | 6    | 7    | 6    | 6    | 6    | 5    | 6    |

- Monthly Statistics for Extreme temperatures C

| #Days    | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Min <= 0 |     |     | 1   | 16  | 28  | 31  | 29  | 16  | 6   |     | 2   |     |

Monthly Statistics for Dew Point temperatures C

|           | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum   | 8.0   | 8.0   | 8.0   | 6.2   | 6.0   | 3.0   | 16.0  | 4.0   | 5.0   | 9.0   | 7.4   | 7.5   |
| Day:Hour  | 9:12  | 15:16 | 2:01  | 7:11  | 27:15 | 8:19  | 12:10 | 26:15 | 9:13  | 21:13 | 17:14 | 17:11 |
| Minimum   | -7.0  | 0.0   | -7.0  | -6.0  | -16.3 | -13.0 | -16.0 | -20.0 | -14.0 | -16.2 | -7.0  | -10.0 |
| Day:Hour  | 13:10 | 1:16  | 31:09 | 27:06 | 19:02 | 5:23  | 1:07  | 9:07  | 15:07 | 30:23 | 3:24  | 20:06 |
| Daily Avg | 4.2   | 4.7   | 4.5   | 2.2   | -2.4  | -5.6  | -4.1  | -4.2  | -0.6  | -0.8  | 3.7   | 2.8   |

- Maximum Dew Point temperature of 16.0 C on Jul 12

- Minimum Dew Point temperature of -20.0 C on Aug 9

- Monthly Statistics for Relative Humidity %

|           | Jan   | Feb  | Mar  | Apr   | May   | Jun   | Jul  | Aug   | Sep   | Oct   | Nov   | Dec  |
|-----------|-------|------|------|-------|-------|-------|------|-------|-------|-------|-------|------|
| Maximum   | 100   | 100  | 100  | 100   | 100   | 96    | 100  | 100   | 100   | 100   | 100   | 100  |
| Day:Hour  | 1:22  | 1:06 | 2:01 | 1:05  | 1:24  | 18:08 | 9:24 | 3:01  | 2:01  | 9:05  | 1:07  | 2:01 |
| Minimum   | 29    | 31   | 27   | 24    | 16    | 14    | 23   | 15    | 15    | 14    | 24    | 24   |
| Day:Hour  | 13:10 | 1:17 | 1:16 | 25:15 | 18:11 | 3:15  | 6:15 | 20:17 | 15:11 | 30:23 | 30:14 | 9:14 |
| Daily Avg | 79    | 80   | 81   | 74    | 56    | 50    | 57   | 52    | 63    | 58    | 76    | 70   |

- Average Hourly Relative Humidity %

|             | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0:01- 1:00  | 90  | 93  | 96  | 92  | 69  | 65  | 74  | 69  | 82  | 73  | 91  | 84  |
| 1:01- 2:00  | 91  | 94  | 95  | 92  | 69  | 65  | 74  | 70  | 82  | 77  | 92  | 86  |
| 2:01- 3:00  | 91  | 94  | 97  | 91  | 71  | 66  | 74  | 70  | 83  | 80  | 93  | 88  |
| 3:01- 4:00  | 93  | 95  | 95  | 91  | 71  | 68  | 73  | 70  | 84  | 82  | 93  | 88  |
| 4:01- 5:00  | 93  | 97  | 95  | 93  | 72  | 70  | 72  | 68  | 84  | 83  | 95  | 87  |
| 5:01- 6:00  | 94  | 97  | 96  | 94  | 72  | 68  | 72  | 68  | 87  | 86  | 95  | 85  |
| 6:01- 7:00  | 94  | 97  | 95  | 94  | 69  | 67  | 72  | 66  | 84  | 79  | 92  | 84  |
| 7:01- 8:00  | 87  | 92  | 90  | 87  | 66  | 60  | 69  | 65  | 75  | 66  | 83  | 77  |
| 8:01- 9:00  | 78  | 81  | 79  | 77  | 57  | 50  | 62  | 55  | 61  | 57  | 76  | 69  |
| 9:01-10:00  | 74  | 76  | 75  | 69  | 48  | 42  | 53  | 48  | 54  | 52  | 70  | 65  |
| 10:01-11:00 | 71  | 72  | 71  | 62  | 44  | 39  | 48  | 42  | 49  | 45  | 66  | 62  |
| 11:01-12:00 | 67  | 67  | 68  | 59  | 40  | 34  | 42  | 37  | 44  | 41  | 62  | 56  |
| 12:01-13:00 | 66  | 66  | 65  | 55  | 39  | 30  | 39  | 34  | 38  | 38  | 60  | 53  |
| 13:01-14:00 | 65  | 62  | 60  | 51  | 36  | 27  | 36  | 31  | 35  | 34  | 57  | 51  |
| 14:01-15:00 | 65  | 59  | 62  | 51  | 35  | 27  | 34  | 32  | 36  | 34  | 55  | 49  |
| 15:01-16:00 | 63  | 59  | 61  | 54  | 36  | 28  | 34  | 31  | 36  | 36  | 54  | 51  |
| 16:01-17:00 | 65  | 61  | 63  | 53  | 37  | 30  | 35  | 32  | 39  | 37  | 56  | 53  |
| 17:01-18:00 | 66  | 64  | 67  | 55  | 42  | 32  | 38  | 36  | 45  | 42  | 59  | 57  |
| 18:01-19:00 | 70  | 74  | 76  | 64  | 53  | 42  | 42  | 41  | 56  | 50  | 67  | 65  |
| 19:01-20:00 | 77  | 78  | 83  | 69  | 57  | 49  | 49  | 46  | 63  | 54  | 74  | 70  |
| 20:01-21:00 | 82  | 83  | 86  | 75  | 60  | 54  | 57  | 52  | 68  | 58  | 77  | 74  |
| 21:01-22:00 | 85  | 86  | 89  | 81  | 64  | 57  | 64  | 57  | 71  | 63  | 83  | 78  |
| 22:01-23:00 | 87  | 90  | 91  | 84  | 67  | 61  | 71  | 63  | 76  | 65  | 87  | 79  |
| 23:01-24:00 | 89  | 92  | 94  | 89  | 69  | 63  | 73  | 65  | 79  | 69  | 88  | 81  |
| Max Hour    | 6   | 7   | 3   | 6   | 6   | 5   | 2   | 2   | 6   | 6   | 6   | 3   |
| Min Hour    | 16  | 15  | 14  | 15  | 15  | 15  | 15  | 14  | 14  | 15  | 16  | 15  |

- Monthly Wind Direction % {N=0 or 360,E=90,S=180,W=270}

|           | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| North     | 39  | 32  | 41  | 40  | 61  | 54  | 39  | 42  | 44  | 49  | 37  | 42  |
| NorthEast | 13  | 11  | 5   | 11  | 3   | 7   | 13  | 17  | 13  | 17  | 15  | 13  |
| East      | 23  | 35  | 31  | 26  | 9   | 10  | 13  | 9   | 22  | 21  | 25  | 23  |
| SouthEast | 10  | 11  | 10  | 8   | 2   | 1   | 3   | 4   | 8   | 5   | 11  | 8   |
| South     | 2   | 3   | 3   | 2   | 3   | 1   | 1   | 3   | 3   | 3   | 2   | 3   |
| SouthWest | 2   | 2   | 1   | 1   | 2   | 1   | 2   | 2   | 1   | 1   | 2   | 3   |
| West      | 7   | 3   | 6   | 5   | 14  | 21  | 21  | 12  | 6   | 3   | 5   | 6   |
| NorthWest | 4   | 3   | 4   | 6   | 8   | 5   | 8   | 10  | 2   | 2   | 4   | 2   |

- Monthly Statistics for Wind Speed m/s

|           | Jan   | Feb  | Mar   | Apr  | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|-----------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum   | 8.2   | 10.3 | 8.2   | 8.2  | 9.3   | 11.3  | 12.9  | 15.4  | 10.3  | 10.3  | 9.3   | 9.3   |
| Day:Hour  | 20:19 | 5:17 | 19:14 | 5:18 | 14:11 | 14:14 | 20:19 | 28:16 | 22:15 | 20:15 | 18:20 | 15:17 |
| Minimum   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Day:Hour  | 1:01  | 1:01 | 1:01  | 1:03 | 1:01  | 1:02  | 1:02  | 1:04  | 1:01  | 1:01  | 1:01  | 1:01  |
| Daily Avg | 2.4   | 2.6  | 2.2   | 2.2  | 1.7   | 2.2   | 2.4   | 2.3   | 2.4   | 2.2   | 2.5   | 2.4   |

- Monthly Statistics for Solar Radiation (Direct Normal, Diffuse, Global Horizontal) Wh/m

|                | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct   | Nov  | Dec   |
|----------------|------|------|------|------|------|------|------|------|------|-------|------|-------|
| Direct Avg     | 1441 | 2372 | 2569 | 3754 | 5493 | 5843 | 6128 | 6137 | 5204 | 4327  | 2454 | 2092  |
| Direct Max Day | 8776 | 9260 | 9335 | 8734 | 8445 | 8574 | 8768 | 8952 | 9363 | 10128 | 9821 | 10288 |
| Diffuse Avg    | 3650 | 3342 | 2974 | 2529 | 1724 | 1483 | 1527 | 1714 | 2216 | 2892  | 3477 | 3387  |
| Global Avg     | 4694 | 5126 | 4827 | 4987 | 5101 | 4774 | 5172 | 5727 | 5850 | 6062  | 5250 | 4963  |

- Maximum Direct Normal Solar of 10288 Wh/m on Dec 20

- Average Hourly Statistics for Direct Normal Solar Radiation Wh/m

|             | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0:01- 1:00  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 1:01- 2:00  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 2:01- 3:00  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 3:01- 4:00  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 4:01- 5:00  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 5:01- 6:00  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 6:01- 7:00  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 39  | 53  | 10  |
| 7:01- 8:00  | 104 | 119 | 106 | 182 | 162 | 187 | 134 | 207 | 327 | 305 | 193 | 154 |
| 8:01- 9:00  | 151 | 241 | 229 | 380 | 439 | 465 | 455 | 531 | 551 | 479 | 263 | 222 |
| 9:01-10:00  | 161 | 309 | 312 | 476 | 564 | 626 | 649 | 655 | 614 | 538 | 249 | 251 |
| 10:01-11:00 | 142 | 332 | 324 | 498 | 632 | 677 | 755 | 797 | 630 | 541 | 218 | 275 |
| 11:01-12:00 | 129 | 271 | 300 | 444 | 644 | 671 | 750 | 817 | 587 | 470 | 202 | 223 |
| 12:01-13:00 | 133 | 248 | 282 | 400 | 627 | 664 | 742 | 737 | 561 | 430 | 212 | 203 |
| 13:01-14:00 | 120 | 219 | 262 | 341 | 631 | 588 | 675 | 651 | 498 | 363 | 249 | 175 |
| 14:01-15:00 | 119 | 190 | 235 | 326 | 603 | 602 | 648 | 610 | 466 | 359 | 239 | 175 |
| 15:01-16:00 | 136 | 172 | 225 | 308 | 575 | 593 | 586 | 510 | 427 | 330 | 221 | 169 |
| 16:01-17:00 | 147 | 150 | 177 | 250 | 484 | 545 | 481 | 410 | 356 | 288 | 208 | 144 |
| 17:01-18:00 | 84  | 101 | 116 | 149 | 132 | 226 | 252 | 214 | 187 | 186 | 146 | 83  |

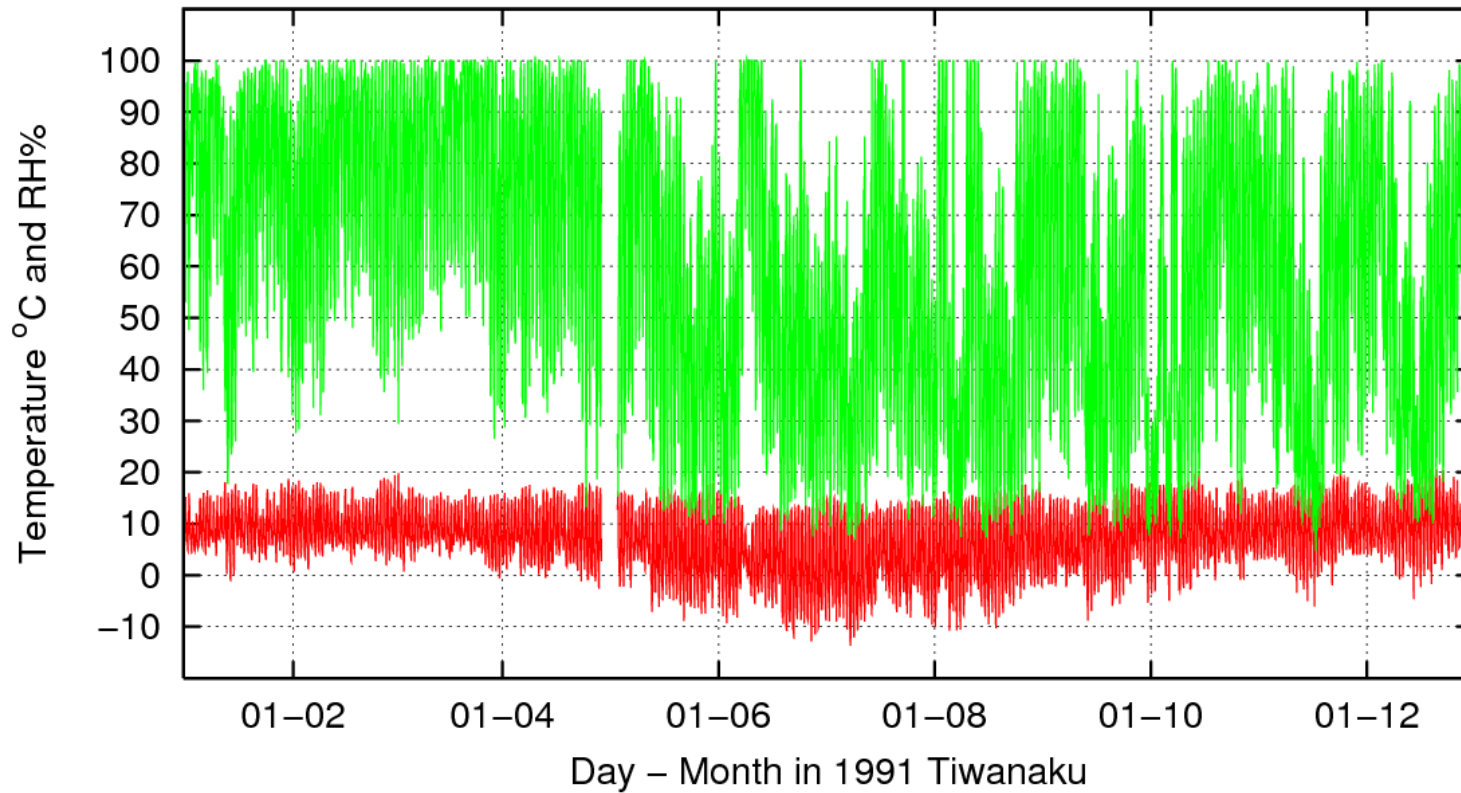
|             |    |    |    |    |    |    |    |    |    |    |   |    |
|-------------|----|----|----|----|----|----|----|----|----|----|---|----|
| 18:01-19:00 | 15 | 19 | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 5  |
| 19:01-20:00 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0  |
| 20:01-21:00 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0  |
| 21:01-22:00 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0  |
| 22:01-23:00 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0  |
| 23:01-24:00 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 | 0  |
| Max Hour    | 10 | 11 | 11 | 11 | 12 | 11 | 11 | 12 | 11 | 11 | 9 | 11 |
| Min Hour    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1 | 1  |

- Monthly Calculated "undisturbed" Ground Temperatures\*\* C

|       | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0.5 m | 8.1 | 8.7 | 8.9 | 8.7 | 7.8 | 6.9 | 6.0 | 5.3 | 5.2 | 5.5 | 6.2 | 7.2 |
| 2.0 m | 7.5 | 8.1 | 8.4 | 8.4 | 7.9 | 7.2 | 6.5 | 5.9 | 5.6 | 5.7 | 6.1 | 6.8 |
| 4.0 m | 7.1 | 7.6 | 7.9 | 8.0 | 7.8 | 7.4 | 6.9 | 6.4 | 6.1 | 6.1 | 6.3 | 6.6 |

- Climate type "H" (Köppen classification)

- Severely cold high altitude climate



Temperature outside ————

RH outside ————