

2009年1月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高    | 最低     | 9時     | 地温    | 気圧    | 湿度     | 風向  | 風速    | 雲量  | 天気   | 霧  | pH   | 降水量  | 積雪    | 平均気温   | 積算温度   | 生物季節など |
|---|----|-------|--------|--------|-------|-------|--------|-----|-------|-----|------|----|------|------|-------|--------|--------|--------|
| 1 | 1  | -2.4  | -14.1  | -9.4   | -2.1  | 812   | 52.4   | w   | 0.9   | 0   | 快晴   |    |      |      | 9.0   | -8.3   | -8.3   | 夕方雪0   |
| 1 | 2  | -1.8  | -13.4  | -8.5   | -2.1  | 814   | 70.7   | wnw | 2.0   | 2   | 晴れ   |    |      |      | 8.5   | -7.6   | -15.9  |        |
| 1 | 3  | -1.5  | -12.1  | -8.5   | -2.1  | 820   | 64.1   | nw  | 2.3   | 0   | 快晴   |    |      |      | 8.5   | -6.8   | -22.7  |        |
| 1 | 4  | 0.5   | -13.3  | -5.7   | -2.3  | 822   | 32.9   | w   | 1.7   | 0   | 快晴   |    |      |      | 8.5   | -6.4   | -29.1  |        |
| 1 | 5  | 0.7   | -10.6  | -4.8   | -2.2  | 822   | 49.9   | sw  | 0.7   | 0   | 快晴   |    | 5.9  | 1.2  | 8.0   | -5.0   | -34.0  | 夕方雪0   |
| 1 | 6  | -0.1  | -10.9  | -6.3   | -2.2  | 822   | 78.1   | wnw | 1.3   | 0   | 快晴   |    |      |      | 10.0  | -5.5   | -39.5  | 霧氷     |
| 1 | 7  | -1.8  | -12.7  | -7.9   | -2.6  | 824   | 70.6   | ene | 2.1   | 1   | 快晴   |    |      |      | 10.0  | -7.3   | -46.8  |        |
| 1 | 8  | 1.8   | -10.4  | -4.9   | -2.6  | 826   | 44.5   | ene | 4.0   | 2   | 晴れ   |    | 6.0  | 5.2  | 10.0  | -4.3   | -51.1  |        |
| 1 | 9  | -1.0  | -8.6   | -4.1   | -2.1  | 822   | 84.6   | s   | 2.2   | 10  | 雪2   |    |      |      | 18.5  | -4.8   | -55.9  |        |
| 1 | 10 | -5.4  | -8.8   | -6.8   | -2.1  | 810   | 83.1   | ne  | 3.6   | 7   | 晴れ   | *  |      |      | 20.0  | -7.1   | -63.0  |        |
| 1 | 11 | -4.7  | -15.7  | -10.4  | -2.9  | 813   | 60.9   | nw  | 4.5   | 1   | 快晴   |    | 4.9  | 2.6  | 19.5  | -10.2  | -73.2  |        |
| 1 | 12 | -7.2  | -12.4  | -10.2  | -3.0  | 814   | 84.1   | nw  | 3.3   | 10  | 雪2   | *  | 4.5  | 3.8  | 20.5  | -9.8   | -83.0  |        |
| 1 | 13 | -5.9  | -12.8  | -9.9   | -2.7  | 816   | 82.9   | nw  | 3.6   | 10  | 雪1   |    |      |      | 21.5  | -9.4   | -92.3  |        |
| 1 | 14 | -4.2  | -14.3  | -10.0  | -2.8  | 818   | 50.1   | w   | 1.6   | 0   | 快晴   |    | 5.1  | 2.5  | 20.5  | -9.3   | -101.6 |        |
| 1 | 15 | -7.2  | -15.5  | -12.3  | -2.9  | 817   | 79.5   | wnw | 2.3   | 1   | 快晴   | *  |      |      | 25.0  | -11.4  | -112.9 |        |
| 1 | 16 | -3.7  | -16.0  | -11.4  | -3.4  | 820   | 76.5   | wnw | 4.5   | 1   | 快晴   |    |      |      | 23.0  | -9.9   | -122.8 |        |
| 1 | 17 | -2.6  | -12.6  | -7.9   | -3.2  | 823   | 83.5   | wnw | 2.5   | 1   | 快晴   | *  |      |      | 22.0  | -7.6   | -130.4 |        |
| 1 | 18 | -0.6  | -10.5  | -5.0   | -3.1  | 826   | 64.4   | sw  | 3.0   | 10  | 曇り   | *  | 4.9  | 24.4 | 21.0  | -5.6   | -135.9 |        |
| 1 | 19 | -1.4  | -6.5   | -2.0   | -2.4  | 816   | 89.7   | ne  | 21.2  | 10  | 雪0霧1 | *  |      |      | 38.0  | -4.0   | -139.9 |        |
| 1 | 20 | -1.9  | -11.7  | -6.6   | -2.9  | 822   | 62.1   | ene | 4.2   | 10  | 曇り   |    |      |      | 36.0  | -6.8   | -146.7 |        |
| 1 | 21 | 0.4   | -9.7   | -4.5   | -2.9  | 823   | 63.6   | w   | 2.1   | 10  | 曇り   |    | 5.9  | 14.0 | 35.0  | -4.7   | -151.3 |        |
| 1 | 22 | 1.8   | -6.5   | -1.5   | -2.3  | 823   | 89.9   | sw  | 2.2   | 10  | 霧1   | *  | 6.0  | 2.9  | 46.5  | -2.4   | -153.7 |        |
| 1 | 23 | 3.8   | -3.2   | 1.1    | -2.0  | 818   | 91.5   | wnw | 4.8   | 10  | 雨0   | *  | 6.8  | 2.9  | 51.0  | 0.3    | -153.4 |        |
| 1 | 24 | -6.2  | -10.9  | -9.0   | -2.0  | 812   | 62.3   | nw  | 3.0   | 5   | 晴れ   |    |      |      | 43.5  | -8.6   | -161.9 |        |
| 1 | 25 | -5.4  | -17.2  | -13.0  | -3.1  | 816   | 79.1   | nw  | 4.1   | 0   | 快晴   |    |      |      | 40.5  | -11.3  | -173.2 |        |
| 1 | 26 | -5.5  | -14.1  | -8.4   | -3.4  | 820   | 70.4   | w   | 3.3   | 10  | 曇り   |    |      |      | 40.0  | -9.8   | -183.0 |        |
| 1 | 27 | -0.7  | -10.9  | -7.7   | -3.3  | 822   | 83.4   | wnw | 3.1   | 3   | 晴れ   |    |      |      | 39.5  | -5.8   | -188.8 |        |
| 1 | 28 | 1.0   | -11.8  | -6.1   | -3.7  | 828   | 65.5   | sw  | 2.7   | 0   | 快晴   | *  |      |      | 39.0  | -5.4   | -194.2 |        |
| 1 | 29 | 6.0   | -7.2   | -1.4   | -3.1  | 829   | 64.3   | ws  | 2.3   | 0   | 快晴   |    |      |      | 38.5  | -0.6   | -194.8 |        |
| 1 | 30 | 6.2   | -2.7   | 2.4    | -2.1  | 826   | 87.8   | se  | 4.9   | 10  | 曇り   | *  | 6.0  | 33.5 | 37.0  | 1.8    | -193.1 | 霧氷     |
| 1 | 31 | -0.3  | -2.6   | -0.8   | -1.9  | 812   | 90.9   | ese | 3.9   | 10  | 雪0   | *  |      |      | 46.0  | -1.5   | -194.5 |        |
|   |    | -1.6  | -11.0  | -6.5   | -2.6  | 820   | 71.4   |     | 3.5   | 5   |      |    | 5.6  | 9.3  | 26.3  | -6.3   |        | 平均     |
|   |    | 6.2   | -2.6   | 2.4    | -1.9  | 829   | 91.5   |     | 21.2  | 10  |      |    | 6.8  | 33.5 | 51.0  | 1.8    |        | 最大値    |
|   |    | -7.2  | -17.2  | -13.0  | -3.7  | 810   | 32.9   |     | 0.7   | 0   |      |    | 4.5  | 1.2  | 8.0   | -11.4  |        | 最小値    |
|   |    | -49.3 | -339.7 | -201.5 | -81.5 | 25408 | 2213.3 |     | 107.9 | 144 |      |    | 56.0 | 93.0 | 814.5 | -194.5 |        | 合計     |
|   |    | 31    | 31     | 31     | 31    | 31    | 31     | 31  | 31    | 31  | 31   | 11 | 10   | 10   | 31    | 31     |        | 観測日数   |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

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| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
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2009年2月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高   | 最低     | 9時     | 地温    | 気圧    | 湿度     | 風向  | 風速   | 雲量  | 天気   | 霧  | pH   | 降水量   | 積雪    | 平均気温   | 積算温度   | 生物季節など    |
|---|----|------|--------|--------|-------|-------|--------|-----|------|-----|------|----|------|-------|-------|--------|--------|-----------|
| 2 | 1  | -3.8 | -9.4   | -6.6   | -1.9  | 820   | 85.0   | nne | 2.4  | 7   | 晴れ   |    |      |       | 45.0  | -6.6   | -201.1 | 霧氷        |
| 2 | 2  | -0.9 | -14.9  | -7.7   | -2.2  | 822   | 81.1   | ws  | 1.2  | 1   | 快晴   |    |      |       | 42.0  | -7.9   | -209.0 | 霧氷        |
| 2 | 3  | 1.8  | -8.6   | -2.9   | -2.3  | 820   | 72.8   | w   | 2.5  | 1   | 快晴   |    |      |       | 44.5  | -3.4   | -212.4 |           |
| 2 | 4  | 2.1  | -8.6   | -4.4   | -2.5  | 820   | 73.3   | ws  | 0.1  | 0   | 快晴   |    |      |       | 39.0  | -3.3   | -215.7 |           |
| 2 | 5  | 2.8  | -6.7   | -4.6   | -2.5  | 819   | 86.2   | w   | 2.7  | 1   | 快晴   |    |      |       | 38.5  | -2.0   | -217.6 |           |
| 2 | 6  | -0.9 | -9.3   | -5.8   | -2.7  | 818   | 69.8   | n   | 1.6  | 5   | 晴れ   | *  |      |       | 38.0  | -5.1   | -222.7 |           |
| 2 | 7  | 0.8  | -13.1  | -6.3   | -3.2  | 820   | 79.4   | w   | 2.4  | 0   | 快晴   |    |      |       | 38.0  | -6.2   | -228.9 |           |
| 2 | 8  | -0.9 | -8.6   | -6.2   | -3.1  | 818   | 65.7   | wnw | 1.9  | 3   | 晴れ   |    |      |       | 37.0  | -4.8   | -233.6 |           |
| 2 | 9  | 0.2  | -15.7  | -4.0   | -4.0  | 819   | 71.8   | w   | 3.1  | 9   | 曇り   |    |      |       | 37.0  | -7.8   | -241.4 |           |
| 2 | 10 | 0.8  | -8.8   | -4.0   | -3.2  | 812   | 60.0   | ene | 4.4  | 0   | 快晴   |    |      |       | 37.0  | -4.0   | -245.4 |           |
| 2 | 11 | 0.2  | -10.6  | -4.4   | -3.5  | 813   | 75.8   | w   | 2.7  | 6   | 晴れ   |    | 6.3  | 10.9  | 37.0  | -5.2   | -250.6 |           |
| 2 | 12 | 2.2  | -11.6  | -6.9   | -3.0  | 818   | 72.4   | w   | 0.7  | 0   | 快晴   |    |      |       | 46.0  | -4.7   | -255.3 |           |
| 2 | 13 | 7.4  | -7.4   | -1.6   | -2.7  | 820   | 81.9   | wnw | 4.0  | 10  | 曇り   | *  | 7.3  | 15.1  | 46.0  | 0.0    | -255.3 |           |
| 2 | 14 | 8.9  | -3.2   | 6.1    | -1.8  | 813   | 90.9   | w   | 8.6  | 9   | 雨0   | *  |      |       | 30.0  | 2.9    | -252.4 |           |
| 2 | 15 | 6.5  | -2.0   | 1.6    | -1.6  | 819   | 40.5   | w   | 3.3  | 0   | 快晴   |    |      |       | 23.0  | 2.3    | -250.2 |           |
| 2 | 16 | -1.2 | -5.1   | -3.3   | -2.0  | 814   | 66.9   | wnw | 7.2  | 8   | 晴れ   |    |      |       | 23.0  | -3.2   | -253.3 |           |
| 2 | 17 | -4.3 | -16.2  | -11.4  | -3.9  | 817   | 46.4   | nne | 1.5  | 0   | 快晴   |    | 7.7  | 0.5   | 24.5  | -10.3  | -263.6 |           |
| 2 | 18 | -5.0 | -14.7  | -9.4   | -5.2  | 818   | 55.4   | w   | 2.4  | 0   | 快晴   |    | 6.7  | 0.5   | 23.5  | -9.9   | -273.4 | キツツキドラミング |
| 2 | 19 | 0.2  | -15.1  | -9.7   | -4.6  | 821   | 80.3   | w   | 0.6  | 7   | 晴れ   |    | 5.6  | 41.9  | 23.5  | -7.5   | -280.9 |           |
| 2 | 20 | 1.0  | -11.4  | -0.2   | -2.9  | 810   | 90.6   | ws  | 3.7  | 10  | 雨0霧1 | *  | 5.9  | 4.2   | 30.0  | -5.2   | -286.1 |           |
| 2 | 21 | -3.0 | -12.8  | -9.9   | -3.0  | 814   | 59.7   | wnw | 4.5  | 0   | 快晴   |    |      |       | 27.0  | -7.9   | -294.0 |           |
| 2 | 22 | 3.5  | -11.7  | -6.4   | -2.8  | 820   | 45.7   | w   | 5.1  | 7   | 晴れ   |    | 6.0  | 31.2  | 29.0  | -4.1   | -298.1 |           |
| 2 | 23 | 0.4  | -7.4   | 0.3    | -2.1  | 817   | 91.3   | se  | 1.6  | 10  | 雨1   | *  |      |       | 25.5  | -3.5   | -301.6 |           |
| 2 | 24 | 3.9  | -7.1   | -0.6   | -1.9  | 824   | 91.2   | ne  | 5.6  | 10  | 霧1   | *  | 6.2  | 12.9  | 30.0  | -1.6   | -303.2 |           |
| 2 | 25 | 4.4  | -3.9   | 3.0    | -1.6  | 819   | 91.3   | ws  | 3.8  | 10  | 雨1霧1 | *  | 6.2  | 7.3   | 29.5  | 0.3    | -302.9 |           |
| 2 | 26 | 0.5  | -6.7   | -3.8   | -1.7  | 821   | 88.0   | wnw | 2.2  | 10  | 霧1   | *  | 6.6  | 2.0   | 28.5  | -3.1   | -306.0 |           |
| 2 | 27 | -1.0 | -6.0   | -4.0   | -1.8  | 822   | 88.5   | wnw | 3.1  | 10  | 雪2   | *  | 5.7  | 5.7   | 34.0  | -3.5   | -309.5 |           |
| 2 | 28 | 2.8  | -9.6   | -5.0   | -1.8  | 822   | 80.2   | wnw | 2.7  | 0   | 快晴   | *  |      |       | 37.0  | -3.4   | -312.9 |           |
|   | 29 |      |        |        |       |       |        |     |      |     |      |    |      |       |       |        | -312.9 |           |
|   | 30 |      |        |        |       |       |        |     |      |     |      |    |      |       |       |        | -312.9 |           |
|   | 31 |      |        |        |       |       |        |     |      |     |      |    |      |       |       |        | -312.9 |           |
|   |    | 1.1  | -9.5   | -4.2   | -2.7  | 818   | 74.4   |     | 3.1  | 5   |      |    | 6.4  | 12.0  | 33.7  | -4.2   |        | 平均        |
|   |    | 8.9  | -2.0   | 6.1    | -1.6  | 824   | 91.3   |     | 8.6  | 10  |      |    | 7.7  | 41.9  | 46.0  | 2.9    |        | 最大値       |
|   |    | -5.0 | -16.2  | -11.4  | -5.2  | 810   | 40.5   |     | 0.1  | 0   |      |    | 5.6  | 0.5   | 23.0  | -10.3  |        | 最小値       |
|   |    | 29.4 | -266.2 | -118.1 | -75.5 | 22910 | 2082.1 |     | 85.6 | 134 |      |    | 70.2 | 132.2 | 943.0 | -118.4 |        | 合計        |
|   |    | 28   | 28     | 28     | 28    | 28    | 28     | 28  | 28   | 28  | 28   | 10 | 11   | 11    | 28    | 28     |        | 観測日数      |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

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| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
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2009年3月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高   | 最低     | 9時    | 地温    | 気圧    | 湿度     | 風向  | 風速    | 雲量  | 天気   | 霧  | pH   | 降水量   | 積雪    | 平均気温  | 積算温度   | 生物季節など |
|---|----|------|--------|-------|-------|-------|--------|-----|-------|-----|------|----|------|-------|-------|-------|--------|--------|
| 3 | 1  | 3.7  | -6.6   | -2.5  | -1.8  | 824   | 88.1   | w   | 1.7   | 10  | 霧1   | *  | 5.6  | 1.3   | 29.5  | -1.5  | -314.4 |        |
| 3 | 2  | -2.3 | -9.8   | -7.3  | -1.9  | 822   | 83.4   | ne  | 3.0   | 8   | 雪0   |    |      |       | 31.0  | -6.1  | -320.4 |        |
| 3 | 3  | -0.7 | -13.5  | -5.1  | -1.9  | 823   | 79.5   | ws  | 3.2   | 10  | 曇り   | *  | 5.9  | 34.5  | 30.5  | -7.1  | -327.5 |        |
| 3 | 4  | 0.1  | -6.8   | -0.7  | -1.8  | 821   | 89.1   | n   | 4.9   | 10  | 曇り   | *  | 6.0  | 2.3   | 51.0  | -3.4  | -330.9 |        |
| 3 | 5  | 2.9  | -11.7  | -2.3  | -1.8  | 825   | 30.8   | ne  | 1.7   | 0   | 快晴   | *  | 6.1  | 57.7  | 47.0  | -4.4  | -335.3 |        |
| 3 | 6  | 3.8  | -5.3   | -0.1  | -1.8  | 821   | 90.9   | s   | 5.1   | 10  | 雪2   |    |      |       | 50.0  | -0.8  | -336.0 |        |
| 3 | 7  | 2.5  | -7.4   | -4.2  | -1.7  | 820   | 60.1   | nw  | 3.1   | 3   | 晴れ   |    |      |       | 46.0  | -2.5  | -338.5 |        |
| 3 | 8  | 4.7  | -6.3   | -1.2  | -1.6  | 825   | 88.2   | ssw | 2.5   | 10  | 曇り   | *  |      |       | 42.5  | -0.8  | -339.3 |        |
| 3 | 9  | 3.1  | -4.2   | -0.2  | -1.5  | 825   | 34.9   | ws  | 1.1   | 10  | 曇り   |    | 6.5  | 0.6   | 40.0  | -0.6  | -339.8 |        |
| 3 | 10 | 3.1  | -4.2   | -0.1  | -1.4  | 818   | 85.0   | nne | 1.1   | 8   | 晴れ   | *  | 6.7  | 1.1   | 40.0  | -0.6  | -340.4 |        |
| 3 | 11 | -2.6 | -13.3  | -7.1  | -1.8  | 820   | 50.4   | nw  | 3.3   | 9   | 曇り   |    |      |       | 42.0  | -8.0  | -348.3 |        |
| 3 | 12 | 1.4  | -13.7  | -7.6  | -1.9  | 826   | 48.1   | ne  | 2.1   | 0   | 快晴   |    |      |       | 42.0  | -6.2  | -354.5 |        |
| 3 | 13 | 4.8  | -7.8   | -3.2  | 1.8   | 828   | 47.2   | w   | 3.9   | 10  | 曇り   | *  | 5.8  | 38.3  | 40.0  | -1.5  | -356.0 |        |
| 3 | 14 | 0.1  | -4.5   | 0.1   | -1.7  | 812   | 91.3   | ene | 11.0  | 10  | 雪2   | *  | 7.3  | 13.6  | 38.0  | -2.2  | -358.2 |        |
| 3 | 15 | 2.9  | -11.7  | -5.0  | -1.7  | 819   | 68.9   | wnw | 2.0   | 0   | 快晴   |    | 6.7  | 3.8   | 55.5  | -4.4  | -362.6 |        |
| 3 | 16 | 2.2  | -8.6   | -3.0  | -1.6  | 820   | 66.5   | w   | 3.8   | 0   | 快晴   | *  |      |       | 51.5  | -3.2  | -365.8 |        |
| 3 | 17 | 5.2  | -4.6   | -1.3  | -1.5  | 820   | 89.7   | nw  | 4.5   | 10  | 雪1   | *  |      |       | 55.5  | 0.3   | -365.5 |        |
| 3 | 18 | 10.2 | -3.0   | 4.4   | -1.2  | 826   | 26.8   | w   | 3.4   | 1   | 快晴   |    |      |       | 50.5  | 3.6   | -361.9 |        |
| 3 | 19 | 10.9 | -0.9   | 5.0   | -1.2  | 826   | 72.5   | w   | 2.2   | 0   | 快晴   |    | 7.8  | 17.3  | 45.0  | 5.0   | -356.9 |        |
| 3 | 20 | 7.7  | 0.3    | 3.3   | -1.3  | 820   | 90.9   | ene | 1.9   | 10  | 雨0   | *  |      |       | 31.5  | 4.0   | -352.9 |        |
| 3 | 21 | 8.9  | -7.7   | 2.1   | -1.4  | 824   | 30.9   | ene | 3.3   | 0   | 快晴   |    |      |       | 27.5  | 0.6   | -352.3 |        |
| 3 | 22 | 2.3  | -3.4   | 2.8   | -1.5  | 817   | 90.8   | sw  | 7.8   | 10  | 雨1霧1 | *  |      |       | 23.0  | -0.6  | -352.8 | 降水計転倒  |
| 3 | 23 | 4.6  | -7.8   | -1.2  |       | 822   | 68.9   | ese | 2.8   | 2   | 晴れ   |    |      |       |       | -1.6  | -354.4 |        |
| 3 | 24 | -1.0 | -7.7   | -2.7  |       | 824   | 50.8   | w   | 3.2   | 0   | 快晴   |    |      |       |       | -4.4  | -358.8 |        |
| 3 | 25 | -3.5 | -8.0   | -2.7  |       | 821   | 77.9   | ws  | 3.3   | 10  | 霧1   | *  |      |       |       | -5.8  | -364.5 |        |
| 3 | 26 | -3.7 | -9.3   | -8.2  |       | 821   | 68.5   | w   | 4.1   | 5   | 晴れ   |    | 1.0  |       |       | -6.5  | -371.0 |        |
| 3 | 27 | -1.6 | -8.5   | -4.4  |       | 823   | 78.8   | w   | 4.4   | 10  | 霧0   | *  |      | 0.0   |       | -5.1  | -376.1 |        |
| 3 | 28 | 0.8  | -10.4  | -8.2  |       | 825   | 65.8   | ws  | 3.2   | 10  | 霧0   | *  |      |       |       | -4.8  | -380.9 |        |
| 3 | 29 | 4.5  | -9.4   | -5.3  |       | 828   | 67.5   | s   | 3.2   | 5   | 晴れ   |    |      |       |       | -2.5  | -383.3 |        |
| 3 | 30 | 4.6  | -8.7   | -4.9  |       | 832   | 55.2   | sw  | 2.6   | 9   | 曇り   |    |      |       |       | -2.1  | -385.4 |        |
| 3 | 31 | 3.2  | -4.6   | -1.3  |       | 831   | 64.1   | w   | 2.9   | 1   | 快晴   |    |      |       |       | -0.7  | -386.1 |        |
|   |    | 2.7  | -7.4   | -2.3  | -1.5  | 823   | 67.8   |     | 3.4   | 6   |      |    | 6.4  | 14.3  | 41.3  | -2.4  |        | 平均     |
|   |    | 10.9 | 0.3    | 5.0   | 1.8   | 832   | 91.3   |     | 11.0  | 10  |      |    | 7.8  | 57.7  | 55.5  | 5.0   |        | 最大値    |
|   |    | -3.7 | -13.7  | -8.2  | -1.9  | 812   | 26.8   |     | 1.1   | 0   |      |    | 5.6  | 0.0   | 23.0  | -8.0  |        | 最小値    |
|   |    | 82.8 | -229.1 | -72.1 | -32.2 | 25509 | 2101.5 |     | 106.3 | 191 |      |    | 64.4 | 171.5 | 909.5 | -73.2 |        | 合計     |
|   |    | 31   | 31     | 31    | 22    | 31    | 31     | 31  | 31    | 31  | 31   | 15 | 10   | 12    | 22    | 31    |        | 観測日数   |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
|--|--|
| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|

2009年4月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高    | 最低   | 9時    | 地温   | 気圧    | 湿度     | 風向  | 風速   | 雲量  | 天気 | 霧  | pH   | 降水量   | 積雪   | 平均気温  | 積算温度   | 生物季節など |
|---|----|-------|------|-------|------|-------|--------|-----|------|-----|----|----|------|-------|------|-------|--------|--------|
| 4 | 1  | 4.7   | -5.2 | 1.3   | -1.4 | 819   | 65.0   | w   | 2.1  | 2   | 晴れ | *  | 6.4  | 11.0  | 4.0  | -0.3  | -386.3 |        |
| 4 | 2  | 2.6   | -9.1 | -1.8  | -1.6 | 818   | 52.9   | ne  | 3.9  | 1   | 快晴 |    |      |       | 13.0 | -3.3  | -389.6 |        |
| 4 | 3  | 9.3   | -8.8 | 2.7   | -1.3 | 826   | 31.0   | w   | 1.1  | 8   | 晴れ |    |      |       | 7.0  | 0.3   | -389.3 |        |
| 4 | 4  | 3.6   | -2.3 | 3.0   | -1.1 | 824   | 65.5   | wnw | 3.1  | 10  | 曇り | *  | 6.9  | 6.5   | 2.0  | 0.7   | -388.7 |        |
| 4 | 5  | 9.3   | -2.4 | 3.4   | -1.2 | 818   | 80.7   | n   | 1.2  | 10  | 曇り | *  |      |       | 5.0  | 3.5   | -385.2 |        |
| 4 | 6  | 8.8   | -0.6 | 3.0   |      | 825   | 51.5   | ws  | 2.3  | 3   | 晴れ |    |      |       |      | 4.1   | -381.1 |        |
| 4 | 7  | 12.3  | 0.1  | 4.5   |      | 829   | 43.1   | sse | 2.4  | 0   | 快晴 |    |      |       |      | 6.2   | -374.9 |        |
| 4 | 8  | 12.3  | 2.0  | 6.3   |      | 833   | 44.9   | s   | 2.4  | 8   | 晴れ |    |      |       |      | 7.2   | -367.8 |        |
| 4 | 9  | 15.2  | 3.2  | 7.7   | -1.0 | 829   | 29.4   | ene | 5.5  | 0   | 快晴 |    |      |       |      | 9.2   | -358.6 |        |
| 4 | 10 | 18.6  | 1.9  | 10.6  | -0.5 | 830   | 34.6   | w   | 2.9  | 0   | 快晴 |    |      |       |      | 10.3  | -348.3 |        |
| 4 | 11 | 19.2  | 2.1  | 12.7  | -0.2 | 830   | 24.4   | ne  | 2.8  | 0   | 快晴 |    |      |       |      | 10.7  | -337.7 |        |
| 4 | 12 | 15.9  | 3.2  | 10.3  | 0.1  | 827   | 49.2   | w   | 1.4  | 7   | 晴れ |    |      |       |      | 9.6   | -328.1 |        |
| 4 | 13 | 14.2  | 4.3  | 8.4   |      | 826   | 55.6   | w   | 2.7  | 1   | 快晴 |    |      |       |      | 9.3   | -318.9 |        |
| 4 | 14 | 6.4   | 5.5  | 8.4   |      | 816   | 90.5   | se  | 3.8  | 9   | 曇り | *  | 7.0  | 33.8  |      | 6.0   | -312.9 |        |
| 4 | 15 | 13.2  | 4.1  | 6.6   | 1.2  | 814   | 87.0   | nw  | 1.9  | 8   | 晴れ | *  |      |       |      | 8.7   | -304.3 |        |
| 4 | 16 | 15.2  | 0.9  | 8.0   | 1.2  | 821   | 69.0   | wnw | 5.0  | 6   | 晴れ |    | 6.1  | 7.4   |      | 8.1   | -296.2 |        |
| 4 | 17 | 10.3  | 3.0  | 5.4   | 2.0  | 822   | 99.8   | ws  | 3.7  | 10  | 霧  | *  | 6.2  | 4.8   |      | 6.7   | -289.6 |        |
| 4 | 18 | 17.4  | 0.2  | 8.7   | 1.8  | 825   | 46.2   | w   | 2.9  | 3   | 晴れ |    |      |       |      | 8.8   | -280.8 |        |
| 4 | 19 | 20.1  | 3.7  | 12.5  | 3.1  | 826   | 46.5   | ne  | 3.3  | 1   | 快晴 |    |      |       |      | 11.9  | -268.9 |        |
| 4 | 20 | 18.5  | 4.8  | 10.5  | 4.9  | 826   | 79.5   | w   | 1.8  | 10  | 曇り | *  | 6.8  | 1.1   |      | 11.7  | -257.2 |        |
| 4 | 21 | 9.5   | 0.6  | 6.6   | 4.2  | 826   | 99.4   | s   | 7.3  | 9   | 霧  | *  | 7.3  | 19.9  |      | 5.1   | -252.2 |        |
| 4 | 22 | 13.9  | 2.2  | 6.7   | 5.0  | 816   | 73.5   | wnw | 6.0  | 0   | 快晴 | *  |      |       |      | 8.1   | -244.1 |        |
| 4 | 23 | 9.8   | -1.7 | 4.6   | 3.0  | 821   | 65.5   | wnw | 2.1  | 9   | 曇り |    |      |       |      | 4.1   | -240.1 |        |
| 4 | 24 | 12.4  | -3.7 | 6.5   | 3.0  | 827   | 78.5   | w   | 2.1  | 10  | 曇り | *  |      |       |      | 4.4   | -235.7 |        |
| 4 | 25 | 5.7   | 1.2  | 2.2   |      | 822   | 91.2   | sse | 4.2  | 10  | 霧  | *  | 7.4  | 52.3  |      | 3.5   | -232.3 |        |
| 4 | 26 | 1.4   | -2.9 | 0.0   | 2.2  | 806   | 91.9   | nw  | 4.9  | 9   | 曇り | *  | 7.1  | 2.1   | 0.5  | -0.8  | -233.0 |        |
| 4 | 27 | 6.2   | -5.4 | 0.7   | 0.6  | 812   | 75.9   | nw  | 2.3  | 9   | 曇り |    |      |       |      | 0.4   | -232.6 |        |
| 4 | 28 | 7.5   | 7.0  | 1.7   | 0.9  | 820   | 33.1   | nw  | 3.2  | 0   | 快晴 |    |      |       |      | 7.3   | -225.4 |        |
| 4 | 29 | 11.8  | -3.8 | 6.7   | 1.6  | 827   | 33.1   | nnw | 1.9  | 0   | 快晴 |    |      |       |      | 4.0   | -221.4 |        |
| 4 | 30 | 15.9  | -0.7 | 7.4   | 2.9  | 832   | 45.8   | wnw | 2.2  | 0   | 快晴 |    |      |       |      | 7.6   | -213.8 |        |
|   | 31 |       |      |       |      |       |        |     |      |     |    |    |      |       |      |       | -213.8 |        |
|   |    | 11.4  | 0.1  | 5.8   | 1.2  | 823   | 61.1   |     | 3.1  | 5   |    |    | 6.8  | 15.4  | 5.3  | 5.7   |        | 平均     |
|   |    | 20.1  | 7.0  | 12.7  | 5.0  | 833   | 99.8   |     | 7.3  | 10  |    |    | 7.4  | 52.3  | 13.0 | 11.9  |        | 最大値    |
|   |    | 1.4   | -9.1 | -1.8  | -1.6 | 806   | 24.4   |     | 1.1  | 0   |    |    | 6.1  | 1.1   | 0.5  | -3.3  |        | 最小値    |
|   |    | 341.2 | 3.4  | 175.3 | 29.4 | 24693 | 1834.2 |     | 92.4 | 153 |    |    | 61.2 | 138.9 | 31.5 | 172.3 |        | 合計     |
|   |    | 30    | 30   | 30    | 24   | 30    | 30     | 30  | 30   | 30  | 30 | 12 | 9    | 9     | 6    | 30    |        | 観測日数   |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
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| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|

2009年5月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高    | 最低    | 9時    | 地温    | 気圧    | 湿度     | 風向  | 風速   | 雲量  | 天気   | 霧  | pH   | 降水量   | 積雪  | 平均気温  | 積算温度   | 生物季節など |
|---|----|-------|-------|-------|-------|-------|--------|-----|------|-----|------|----|------|-------|-----|-------|--------|--------|
| 5 | 1  | 18.7  | 0.0   | 8.6   | 3.9   | 833   | 34.7   | wnw | 2.3  | 5   | 晴れ   |    |      |       |     | 9.4   | -204.4 |        |
| 5 | 2  | 18.9  | 1.4   | 13.4  | 5.3   | 831   | 41.3   | sw  | 2.5  | 1   | 快晴   |    |      |       |     | 10.2  | -194.3 |        |
| 5 | 3  | 14.9  | 2.6   | 9.8   | 5.9   | 830   | 66.1   | wnw | 3.1  | 7   | 晴れ   |    |      |       |     | 8.8   | -185.5 |        |
| 5 | 4  | 13.0  | 3.1   | 8.6   | 6.6   | 830   | 78.3   | w   | 1.8  | 10  | 曇り   | *  |      |       |     | 8.1   | -177.5 |        |
| 5 | 5  | 10.6  | 2.4   | 10.2  | 6.5   | 827   | 75.0   | ne  | 3.5  | 10  | 曇り   | *  | 7.3  | 11.5  |     | 6.5   | -171.0 |        |
| 5 | 6  | 6.6   | 1.9   | 4.4   | 5.0   | 824   | 99.0   | ne  | 5.2  | 10  | 雨1霧1 | *  | 7.3  | 19.0  |     | 4.3   | -166.7 |        |
| 5 | 7  | 10.1  | 2.5   | 6.3   | 4.9   | 823   | 99.2   | ne  | 8.7  | 10  | 雨1霧0 | *  | 7.0  | 11.7  |     | 6.3   | -160.4 |        |
| 5 | 8  | 16.0  | 4.4   | 9.1   | 5.9   | 817   | 93.2   | ne  | 3.0  | 10  | 雨1   | *  | 6.9  | 3.2   |     | 10.2  | -150.2 |        |
| 5 | 9  | 23.1  | 3.4   | 15.9  | 6.2   | 824   | 36.5   | ene | 2.8  | 0   | 快晴   |    |      |       |     | 13.3  | -137.0 |        |
| 5 | 10 | 24.4  | 8.2   | 17.3  | 9.0   | 826   | 52.3   | w   | 2.6  | 1   | 快晴   |    |      |       |     | 16.3  | -120.7 |        |
| 5 | 11 | 23.6  | 9.7   | 16.7  | 9.5   | 826   | 35.0   | w   | 2.6  | 9   | 曇り   |    |      |       |     | 16.7  | -104.0 |        |
| 5 | 12 | 21.2  | 9.0   | 15.0  | 9.2   | 824   | 47.0   | w   | 2.4  | 10  | 曇り   |    | 6.9  | 1.5   |     | 15.1  | -88.9  |        |
| 5 | 13 | 15.2  | 6.3   | 9.8   | 8.6   | 818   | 99.0   | w   | 3.5  | 10  | 霧1   | *  |      |       |     | 10.8  | -78.2  |        |
| 5 | 14 | 13.4  | -2.6  | 8.0   | 6.8   | 819   | 49.5   | wnw | 4.5  | 3   | 晴れ   |    |      |       |     | 5.4   | -72.8  |        |
| 5 | 15 | 16.5  | -5.6  | 10.3  | 6.2   | 826   | 51.0   | wnw | 1.5  | 10  | 曇り   |    |      |       |     | 5.5   | -67.3  |        |
| 5 | 16 | 8.2   | 2.8   | 6.9   | 7.1   | 829   | 90.6   | w   | 3.0  | 10  | 曇り   | *  | 7.2  | 8.9   |     | 5.5   | -61.8  |        |
| 5 | 17 | 12.3  | 3.9   | 7.9   | 6.7   | 822   | 99.2   | ws  | 5.7  | 10  | 雨0霧1 | *  | 7.2  | 16.0  |     | 8.1   | -53.7  |        |
| 5 | 18 | 20.2  | 3.5   | 10.7  | 7.7   | 820   | 59.1   | w   | 2.7  | 0   | 快晴   |    |      |       |     | 11.9  | -41.9  |        |
| 5 | 19 | 16.1  | 5.2   | 14.2  | 9.5   | 822   | 34.1   | w   | 3.1  | 8   | 晴れ   |    |      |       |     | 10.7  | -31.2  | 車山消雪   |
| 5 | 20 | 22.5  | 10.2  | 16.4  | 8.9   | 825   | 26.8   | nw  | 1.4  | 0   | 快晴   |    |      |       |     | 16.4  | -14.9  |        |
| 5 | 21 | 21.7  | 7.9   | 17.5  | 10.0  | 828   | 41.3   | wnw | 1.4  | 10  | 曇り   |    |      |       |     | 14.8  | -0.1   | カッコウ   |
| 5 | 22 | 13.4  | 6.8   | 12.1  | 9.5   | 823   | 60.4   | ws  | 4.2  | 2   | 晴れ   | *  | 6.1  | 1.1   |     | 10.1  | 10.0   |        |
| 5 | 23 | 21.8  | 7.4   | 12.9  | 9.8   | 820   | 81.3   | w   | 1.9  | 8   | 晴れ   | *  | 7.2  | 4.3   |     | 14.6  | 24.6   |        |
| 5 | 24 | 11.3  | 4.6   | 9.7   | 9.6   | 819   | 86.1   | s   | 2.2  | 10  | 雨0霧0 | *  | 7.4  | 12.0  |     | 8.0   | 32.6   |        |
| 5 | 25 | 12.6  | 2.7   | 9.9   | 8.5   | 822   | 79.5   | ne  | 3.9  | 7   | 晴れ   | *  |      |       |     | 7.7   | 40.2   |        |
| 5 | 26 | 19.7  | 3.8   | 17.0  | 9.7   | 826   | 35.7   | ne  | 3.4  | 9   | 曇り   |    |      |       |     | 11.8  | 52.0   |        |
| 5 | 27 | 16.7  | 6.1   | 13.6  | 10.1  | 826   | 75.7   | wnw | 1.3  | 7   | 晴れ   | *  | 7.0  | 1.5   |     | 11.4  | 63.4   | 雷雨     |
| 5 | 28 | 13.9  | 5.2   | 7.3   | 9.1   | 825   | 88.6   | nw  | 4.3  | 10  | 曇り   | *  | 7.3  | 7.8   |     | 9.6   | 72.9   |        |
| 5 | 29 | 14.1  | 4.8   | 13.4  | 9.0   | 821   | 96.2   | nw  | 3.4  | 8   | 晴れ   | *  | 6.9  | 1.0   |     | 9.5   | 82.4   |        |
| 5 | 30 | 15.5  | 6.1   | 11.5  | 9.5   | 820   | 94.0   | nw  | 1.7  | 10  | 霧0   | *  | 6.9  | 31.4  |     | 10.8  | 93.2   |        |
| 5 | 31 | 12.7  | 8.4   | 10.8  | 10.3  | 816   | 96.3   | w   | 2.6  | 10  | 雨1霧0 | *  |      |       |     | 10.6  | 103.7  |        |
|   |    | 16.1  | 4.4   | 11.5  | 7.9   | 824   | 67.8   |     | 3.1  | 7   |      |    | 7.0  | 9.4   | ERR | 10.2  |        | 平均     |
|   |    | 24.4  | 10.2  | 17.5  | 10.3  | 833   | 99.2   |     | 8.7  | 10  |      |    | 7.4  | 31.4  | ERR | 16.7  |        | 最大値    |
|   |    | 6.6   | -5.6  | 4.4   | 3.9   | 816   | 26.8   |     | 1.3  | 0   |      |    | 6.1  | 1.0   | ERR | 4.3   |        | 最小値    |
|   |    | 498.9 | 136.1 | 355.2 | 244.5 | 25542 | 2102.0 |     | 96.2 | 225 |      |    | 98.6 | 130.9 | 0.0 | 317.5 |        | 合計     |
|   |    | 31    | 31    | 31    | 31    | 31    | 31     | 31  | 31   | 31  | 31   | 17 | 14   | 14    | 0   | 31    |        | 観測日数   |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
|--|--|
| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|

2009年6月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高    | 最低    | 9時    | 地温    | 気圧    | 湿度     | 風向  | 風速   | 雲量  | 天気   | 霧  | pH    | 降水量   | 積雪  | 平均気温  | 積算温度  | 生物季節など   |  |
|---|----|-------|-------|-------|-------|-------|--------|-----|------|-----|------|----|-------|-------|-----|-------|-------|----------|--|
| 6 | 1  | 16.5  | 6.5   | 10.4  | 9.2   | 816   | 85.2   | nw  | 1.0  | 6   | 晴れ   |    |       |       |     | 11.5  | 115.2 |          |  |
| 6 | 2  | 20.2  | 2.6   | 12.3  | 9.1   | 823   | 54.0   | w   | 3.4  | 6   | 晴れ   |    |       |       |     | 11.4  | 126.6 |          |  |
| 6 | 3  | 14.7  | 6.0   | 10.4  | 10.4  | 822   | 70.1   | ws  | 2.3  | 10  | 曇り   | *  | 7.0   | 1.4   |     | 10.4  | 137.0 |          |  |
| 6 | 4  | 17.8  | 4.2   | 11.0  | 9.7   | 818   | 87.4   | nne | 0.9  | 10  | 曇り   | *  | 6.5   | 1.3   |     | 11.0  | 148.0 |          |  |
| 6 | 5  | 11.7  | 7.3   | 10.6  | 10.4  | 820   | 95.9   | ne  | 1.6  | 10  | 雨1霧0 | *  | 7.0   | 6.5   |     | 9.5   | 157.5 |          |  |
| 6 | 6  | 16.1  | 6.8   | 10.0  | 9.8   | 817   | 95.9   | ne  | 3.2  | 10  | 霧2   | *  | 7.0   | 0.2   |     | 11.5  | 168.9 |          |  |
| 6 | 7  | 20.0  | 6.3   | 15.7  | 10.7  | 819   | 71.9   | ne  | 3.1  | 2   | 晴れ   |    |       |       |     | 13.2  | 182.1 |          |  |
| 6 | 8  | 21.7  | 7.6   | 13.7  | 11.9  | 816   | 83.8   | wnw | 2.4  | 10  | 曇り   | *  | 6.9   | 3.3   |     | 14.7  | 196.7 |          |  |
| 6 | 9  | 16.0  | 7.6   | 12.1  | 11.8  | 826   | 95.4   | w   | 2.3  | 10  | 霧1   | *  | 6.8   | 0.7   |     | 11.8  | 208.6 |          |  |
| 6 | 10 | 16.6  | 9.1   | 12.3  |       | 828   | 84.3   | ws  | 2.5  | 10  | 曇り   | *  | 7.0   | 21.9  |     | 12.9  | 221.4 |          |  |
| 6 | 11 | 15.8  | 7.3   | 11.5  | 10.9  | 814   | 95.3   | ws  | 3.1  | 10  | 霧1   |    |       |       |     | 11.6  | 233.0 |          |  |
| 6 | 12 | 19.5  | 4.1   | 14.9  | 10.0  | 817   | 39.8   | w   | 1.3  | 7   | 晴れ   |    |       |       |     | 11.8  | 244.8 |          |  |
| 6 | 13 | 20.8  | 6.7   | 13.9  | 10.9  | 818   | 64.3   | w   | 2.3  | 10  | 曇り   |    | 6.6   | 2.4   |     | 13.8  | 258.5 |          |  |
| 6 | 14 | 18.6  | 9.8   | 14.0  | 11.8  | 820   | 90.7   | w   | 1.7  | 10  | 霧0   | *  | 7.0   | 2.3   |     | 14.2  | 272.7 | 雷・アサギマダラ |  |
| 6 | 15 | 20.4  | 6.1   | 15.4  | 12.0  | 823   | 73.6   | w   | 2.1  | 2   | 晴れ   |    |       |       |     | 13.3  | 286.0 |          |  |
| 6 | 16 | 20.3  | 7.8   | 15.6  | 12.9  | 825   | 69.0   | w   | 2.5  | 2   | 晴れ   | *  | 6.8   | 9.6   |     | 14.1  | 300.0 | 雷雨       |  |
| 6 | 17 | 19.3  | 5.8   | 14.2  | 12.0  | 826   | 72.1   | w   | 3.4  | 1   | 快晴   | *  | 6.9   | 0.6   |     | 12.6  | 312.6 |          |  |
| 6 | 18 | 18.0  | 7.1   | 10.1  | 12.1  | 828   | 93.8   | w   | 2.2  | 10  | 雨0   | *  | 6.8   | 0.3   |     | 12.6  | 325.1 |          |  |
| 6 | 19 | 24.7  | 7.0   | 17.9  | 12.9  | 826   | 65.7   | w   | 1.1  | 4   | 晴れ   | *  |       |       |     | 15.9  | 341.0 |          |  |
| 6 | 20 | 22.7  | 9.2   | 17.8  | 13.9  | 825   | 65.7   | sw  | 2.8  | 8   | 晴れ   | *  | 7.2   | 17.8  |     | 16.0  | 356.9 |          |  |
| 6 | 21 | 19.6  | 10.5  | 14.7  | 13.9  | 822   | 95.1   | w   | 1.6  | 10  | 雨0霧1 | *  | 7.2   | 4.2   |     | 15.1  | 372.0 |          |  |
| 6 | 22 | 16.7  | 13.1  | 15.9  | 14.8  | 820   | 92.0   | w   | 2.6  | 10  | 霧0   | *  | 7.0   | 67.5  |     | 14.9  | 386.9 |          |  |
| 6 | 23 | 21.5  | 12.3  | 15.4  | 14.7  | 816   | 91.7   | ws  | 4.5  | 7   | 晴れ   | *  | 6.9   | 5.1   |     | 16.9  | 403.8 |          |  |
| 6 | 24 | 21.5  | 10.2  | 13.0  | 14.0  | 818   | 94.4   | ssw | 0.8  | 10  | 雨1霧1 | *  |       |       |     | 15.9  | 419.6 |          |  |
| 6 | 25 | 22.8  | 12.5  | 14.7  |       | 830   | 55.7   | s   | 1.5  | 9   | 曇り   |    |       |       |     | 17.7  | 437.3 |          |  |
| 6 | 26 | 23.4  | 8.5   | 17.7  | 14.8  | 825   | 51.6   | w   | 2.0  | 3   | 晴れ   |    |       |       |     | 16.0  | 453.2 |          |  |
| 6 | 27 | 25.9  | 10.7  | 19.9  | 15.2  | 825   | 38.1   | w   | 1.6  | 2   | 晴れ   |    |       |       |     | 18.3  | 471.5 |          |  |
| 6 | 28 | 20.4  | 11.4  | 16.4  | 15.4  | 824   | 76.0   | ne  | 1.8  | 10  | 曇り   |    |       |       |     | 15.9  | 487.4 | 沖縄梅雨明け   |  |
| 6 | 29 | 20.7  | 7.2   | 17.6  | 14.8  | 824   | 52.2   | s   | 2.1  | 6   | 晴れ   |    | 7.5   | 29.4  |     | 14.0  | 501.4 |          |  |
| 6 | 30 | 19.6  | 10.1  | 16.2  | 14.4  | 822   | 94.8   | ws  | 2.8  | 10  | 霧1   | *  | 7.3   | 12.4  |     | 14.9  | 516.2 |          |  |
|   | 31 |       |       |       |       |       |        |     |      |     |      |    |       |       |     |       | 516.2 |          |  |
|   |    | 19.5  | 8.0   | 14.2  | 12.3  | 822   | 76.5   |     | 2.2  | 8   |      |    | 7.0   | 10.4  | ERR | 13.7  |       | 平均       |  |
|   |    | 25.9  | 13.1  | 19.9  | 15.4  | 830   | 95.9   |     | 4.5  | 10  |      |    | 7.5   | 67.5  | ERR | 18.3  |       | 最大値      |  |
|   |    | 11.7  | 2.6   | 10.0  | 9.1   | 814   | 38.1   |     | 0.8  | 1   |      |    | 6.5   | 0.2   | ERR | 9.5   |       | 最小値      |  |
|   |    | 583.5 | 241.4 | 425.3 | 344.4 | 24653 | 2295.5 |     | 66.5 | 225 |      |    | 125.4 | 186.9 | 0.0 | 412.5 |       | 合計       |  |
|   |    | 30    | 30    | 30    | 28    | 30    | 30     | 30  | 30   | 30  | 30   | 18 | 18    | 18    | 0   | 30    |       | 観測日数     |  |

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
|--|--|
| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|

2009年7月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高    | 最低    | 9時    | 地温    | 気圧    | 湿度     | 風向 | 風速   | 雲量  | 天気   | 霧  | pH    | 降水量   | 積雪  | 平均気温  | 積算温度   | 生物季節など   |
|---|----|-------|-------|-------|-------|-------|--------|----|------|-----|------|----|-------|-------|-----|-------|--------|----------|
| 7 | 1  | 17.2  | 12.2  | 15.3  | 15.2  | 820   | 94.3   | w  | 4.4  | 10  | 雨0霧2 | *  | 7.2   | 41.3  |     | 14.7  | 530.9  |          |
| 7 | 2  | 17.5  | 12.7  | 15.1  | 14.8  | 817   | 93.0   | sw | 2.4  | 10  | 雨0霧1 | *  |       |       |     | 15.1  | 546.0  |          |
| 7 | 3  | 18.5  | 11.6  | 15.1  | 13.8  | 820   | 91.1   | sw | 1.3  | 10  | 霧0   | *  | 7.1   | 5.7   |     | 15.1  | 561.1  |          |
| 7 | 4  | 20.6  | 9.0   | 17.4  | 16.4  | 822   | 82.1   | nw | 0.8  | 9   | 曇り   | *  | 6.9   | 2.3   |     | 14.8  | 575.9  |          |
| 7 | 5  | 19.2  | 10.7  | 14.7  | 16.7  | 828   | 88.4   | sw | 2.1  | 10  | 曇り   | *  | 7.6   | 8.3   |     | 15.0  | 590.8  |          |
| 7 | 6  | 16.8  | 11.3  | 15.7  | 14.6  | 830   | 91.5   | s  | 2.1  | 10  | 雨0   | *  | 7.4   | 19.3  |     | 14.1  | 604.9  |          |
| 7 | 7  | 17.9  | 12.8  | 16.0  | 15.4  | 829   | 82.3   | sw | 2.6  | 10  | 霧0   | *  | 7.2   | 13.8  |     | 15.4  | 620.2  |          |
| 7 | 8  | 16.7  | 12.7  | 15.1  | 14.9  | 825   | 91.7   | sw | 4.3  | 10  | 雨1霧1 | *  | 7.0   | 21.8  |     | 14.7  | 634.9  |          |
| 7 | 9  | 16.9  | 12.9  | 16.2  | 15.7  | 823   | 89.3   | sw | 3.5  | 10  | 霧1   | *  | 6.9   | 11.7  |     | 14.9  | 649.8  |          |
| 7 | 10 | 18.8  | 14.2  | 16.5  | 16.2  | 818   | 87.0   | nw | 8.2  | 10  | 雨1霧1 | *  |       |       |     | 16.5  | 666.3  | 九州南部梅雨明け |
| 7 | 11 | 19.6  | 12.1  | 16.4  | 15.5  | 824   | 84.5   | w  | 3.7  | 8   | 晴れ   | *  |       |       |     | 15.9  | 682.2  |          |
| 7 | 12 | 21.2  | 10.9  | 18.0  | 16.7  | 827   | 69.1   | w  | 1.9  | 9   | 曇り   | *  |       |       |     | 16.1  | 698.2  |          |
| 7 | 13 | 19.3  | 13.5  | 16.8  | 16.2  | 826   | 89.0   | w  | 5.1  | 10  | 曇り   | *  |       |       |     | 16.4  | 714.6  |          |
| 7 | 14 | 24.8  | 12.8  | 19.2  | 18.5  | 828   | 72.5   | sw | 2.1  | 9   | 曇り   | *  | 7.3   | 0.4   |     | 18.8  | 733.4  | 関東甲信梅雨明け |
| 7 | 15 | 13.3  | 13.6  | 18.8  | 18.4  | 824   | 74.3   | sw | 5.0  | 4   | 晴れ   | *  |       |       |     | 13.5  | 746.9  |          |
| 7 | 16 | 24.6  | 11.8  | 18.7  | 17.4  | 824   | 68.8   | w  | 3.4  | 1   | 快晴   | *  | 7.6   | 43.5  |     | 18.2  | 765.1  |          |
| 7 | 17 | 17.5  | 10.8  | 16.8  | 15.8  | 824   | 86.0   | sw | 3.1  | 10  | 霧0   | *  | 7.5   | 13.0  |     | 14.2  | 779.2  | 夜中雷      |
| 7 | 18 | 17.7  | 13.7  | 16.3  | 16.0  | 824   | 90.9   | sw | 3.9  | 10  | 雨0霧2 | *  | 7.2   | 3.0   |     | 15.7  | 794.9  |          |
| 7 | 19 | 18.6  | 13.9  | 16.4  | 16.2  | 822   | 89.2   | w  | 3.9  | 10  | 雨0霧1 | *  |       |       |     | 16.3  | 811.2  |          |
| 7 | 20 | 23.2  | 12.4  | 18.9  | 16.7  | 823   | 79.3   | w  | 1.4  | 3   | 晴れ   | *  | 7.1   | 4.2   |     | 17.8  | 829.0  |          |
| 7 | 21 | 17.7  | 14.0  | 16.8  | 16.5  | 820   | 80.8   | sw | 3.5  | 10  | 霧1   | *  | 7.2   | 33.1  |     | 15.9  | 844.8  |          |
| 7 | 22 | 18.9  | 13.9  | 17.0  | 16.3  | 816   | 87.0   | w  | 4.2  | 10  | 霧1   | *  |       |       |     | 16.4  | 861.2  |          |
| 7 | 23 | 22.7  | 10.7  | 17.7  | 16.9  | 821   | 82.8   | ne | 1.1  | 10  | 曇り   | *  | 7.3   | 4.2   |     | 16.7  | 877.9  |          |
| 7 | 24 | 21.3  | 14.1  | 17.3  | 16.7  | 823   | 90.0   | sw | 2.5  | 10  | 雨0霧1 | *  | 7.4   | 3.7   |     | 17.7  | 895.6  |          |
| 7 | 25 | 19.5  | 13.7  | 16.4  | 16.6  | 824   | 90.3   | sw | 3.4  | 10  | 霧1   | *  | 7.3   | 24.0  |     | 16.6  | 912.2  |          |
| 7 | 26 | 19.8  | 14.2  | 17.8  | 17.0  | 824   | 86.2   | sw | 3.4  | 10  | 霧1   | *  | 7.3   | 22.5  |     | 17.0  | 929.2  |          |
| 7 | 27 | 16.6  | 13.5  | 16.0  | 15.6  | 823   | 89.9   | sw | 3.0  | 10  | 雨0霧1 | *  | 7.2   | 5.3   |     | 15.1  | 944.3  |          |
| 7 | 28 | 18.0  | 12.7  | 16.6  | 15.5  | 824   | 90.5   | w  | 1.7  | 10  | 霧1   | *  | 7.2   | 38.2  |     | 15.4  | 959.6  |          |
| 7 | 29 | 19.4  | 13.8  | 17.0  | 16.8  | 823   | 90.7   | sw | 3.1  | 10  | 雨1霧1 | *  | 7.1   | 4.9   |     | 16.6  | 976.2  |          |
| 7 | 30 | 24.9  | 15.2  | 19.2  | 17.9  | 823   | 84.8   | w  | 2.9  | 9   | 霧0   | *  |       |       |     | 20.1  | 996.3  | ハアリ      |
| 7 | 31 | 21.6  | 15.0  | 19.5  | 18.4  | 824   | 86.9   | w  | 1.3  | 10  | 霧0   | *  |       |       |     | 18.3  | 1014.6 |          |
|   |    | 19.4  | 12.8  | 16.9  | 16.3  | 823   | 85.6   |    | 3.1  | 9   |      |    | 7.2   | 15.4  | ERR | 16.1  |        | 平均       |
|   |    | 24.9  | 15.2  | 19.5  | 18.5  | 830   | 94.3   |    | 8.2  | 10  |      |    | 7.6   | 43.5  | ERR | 20.1  |        | 最大値      |
|   |    | 13.3  | 9.0   | 14.7  | 13.8  | 816   | 68.8   |    | 0.8  | 1   |      |    | 6.9   | 0.4   | ERR | 13.5  |        | 最小値      |
|   |    | 600.3 | 396.4 | 524.7 | 505.3 | 25523 | 2654.2 |    | 95.3 | 282 |      |    | 152.0 | 324.2 | 0.0 | 498.4 |        | 合計       |
|   |    | 31    | 31    | 31    | 31    | 31    | 31     | 31 | 31   | 31  | 31   | 29 | 21    | 21    | 0   | 31    |        | 観測日数     |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
|--|--|
| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|

2009年8月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高    | 最低    | 9時    | 地温    | 気圧    | 湿度     | 風向  | 風速   | 雲量  | 天気 | 霧  | pH    | 降水量   | 積雪  | 平均気温  | 積算温度   | 生物季節など |
|---|----|-------|-------|-------|-------|-------|--------|-----|------|-----|----|----|-------|-------|-----|-------|--------|--------|
| 8 | 1  | 21.0  | 14.5  | 17.6  | 17.1  | 823   | 92.1   | w   | 1.8  | 10  | 霧  | *  | 7.1   | 10.1  |     | 17.8  | 1032.3 |        |
| 8 | 2  | 20.2  | 13.0  | 16.1  | 16.6  | 823   | 88.9   | s   | 2.4  | 10  | 雨  | *  | 7.1   | 11.3  |     | 16.6  | 1048.9 |        |
| 8 | 3  | 22.3  | 11.6  | 19.1  | 16.9  | 824   | 78.4   | ne  | 1.1  | 8   | 晴れ | *  |       |       |     | 17.0  | 1065.9 |        |
| 8 | 4  | 23.6  | 13.1  | 19.7  | 17.2  | 822   | 82.0   | ne  | 2.5  | 3   | 晴れ | *  |       |       |     | 18.4  | 1084.2 |        |
| 8 | 5  | 24.8  | 14.7  | 18.1  | 18.1  | 825   | 88.8   | wnw | 1.1  | 10  | 曇り | *  |       |       |     | 19.8  | 1104.0 |        |
| 8 | 6  | 23.7  | 15.7  | 21.0  | 18.7  | 826   | 87.4   | nw  | 1.4  | 9   | 曇り | *  | 6.9   | 44.5  |     | 19.7  | 1123.7 |        |
| 8 | 7  | 20.6  | 15.5  | 18.3  | 18.1  | 826   | 92.0   | ssw | 3.2  | 10  | 霧  | *  | 7.5   | 21.4  |     | 18.1  | 1141.7 |        |
| 8 | 8  | 20.8  | 15.0  | 20.7  | 18.0  | 824   | 91.3   | w   | 1.3  | 9   | 曇り | *  | 7.2   | 32.5  |     | 17.9  | 1159.6 |        |
| 8 | 9  | 21.7  | 14.7  | 19.0  | 18.6  | 826   | 85.1   | ssw | 0.9  | 10  | 霧  | *  | 7.3   | 21.5  |     | 18.2  | 1177.8 |        |
| 8 | 10 | 19.6  | 14.8  | 17.5  | 17.4  | 825   | 91.3   | s   | 0.6  | 10  | 雨霧 | *  | 7.1   | 4.7   |     | 17.2  | 1195.0 |        |
| 8 | 11 | 24.6  | 14.2  | 17.3  | 19.3  | 822   | 91.7   | ne  | 3.6  | 5   | 晴れ | *  |       |       |     | 19.4  | 1214.4 |        |
| 8 | 12 | 25.2  | 14.9  | 19.9  | 18.6  | 822   | 90.7   | w   | 2.0  | 2   | 晴れ | *  |       |       |     | 20.1  | 1234.5 |        |
| 8 | 13 | 21.5  | 15.5  | 19.0  | 19.0  | 820   | 91.9   | w   | 3.2  | 10  | 霧  | *  | 7.1   | 0.3   |     | 18.5  | 1253.0 |        |
| 8 | 14 | 22.9  | 14.5  | 16.7  | 18.3  | 822   | 92.0   | ne  | 2.0  | 10  | 雨霧 | *  |       |       |     | 18.7  | 1271.7 |        |
| 8 | 15 | 25.7  | 10.6  | 21.2  | 18.1  | 825   | 76.9   | w   | 1.7  | 8   | 晴れ | *  | 7.5   | 1.5   |     | 18.2  | 1289.8 |        |
| 8 | 16 | 23.7  | 10.8  | 19.4  | 17.9  | 828   | 56.4   | ne  | 2.6  | 0   | 快晴 | *  |       |       |     | 17.3  | 1307.1 |        |
| 8 | 17 | 24.5  | 10.9  | 21.7  | 17.5  | 829   | 55.3   | ne  | 1.7  | 0   | 快晴 | *  |       |       |     | 17.7  | 1324.8 |        |
| 8 | 18 | 24.6  | 10.8  | 21.9  | 17.8  | 828   | 66.8   | ne  | 1.5  | 1   | 快晴 | *  |       |       |     | 17.7  | 1342.5 |        |
| 8 | 19 | 23.8  | 12.8  | 20.7  | 18.4  | 822   | 69.7   | ne  | 1.9  | 7   | 晴れ | *  | 7.6   | 1.8   |     | 18.3  | 1360.8 |        |
| 8 | 20 | 23.3  | 12.0  | 18.1  | 18.0  | 826   | 80.4   | ws  | 1.7  | 2   | 晴れ | *  |       |       |     | 17.7  | 1378.4 |        |
| 8 | 21 | 19.2  | 13.1  | 17.6  | 17.8  | 823   | 92.6   | w   | 2.5  | 10  | 霧  | *  | 6.8   | 14.1  |     | 16.2  | 1394.6 |        |
| 8 | 22 | 22.9  | 14.3  | 17.8  | 17.4  | 822   | 91.9   | w   | 3.5  | 10  | 霧  | *  |       |       |     | 18.6  | 1413.2 |        |
| 8 | 23 | 22.0  | 10.6  | 14.8  | 16.8  | 822   | 63.7   | w   | 1.9  | 10  | 曇り | *  |       |       |     | 16.3  | 1429.5 |        |
| 8 | 24 | 19.9  | 7.8   | 17.1  | 15.9  | 822   | 67.7   | nw  | 1.0  | 1   | 快晴 | *  |       |       |     | 13.9  | 1443.3 |        |
| 8 | 25 | 21.8  | 7.2   | 13.9  | 15.3  | 825   | 87.2   | w   | 1.1  | 10  | 曇り | *  |       |       |     | 14.5  | 1457.8 |        |
| 8 | 26 | 22.6  | 9.8   | 16.5  | 16.0  | 826   | 75.7   | w   | 1.1  | 9   | 曇り | *  |       |       |     | 16.2  | 1474.0 |        |
| 8 | 27 | 21.5  | 10.2  | 15.6  | 16.0  | 826   | 90.1   | w   | 1.1  | 10  | 曇り | *  |       |       |     | 15.9  | 1489.9 |        |
| 8 | 28 | 22.3  | 11.0  | 16.1  | 16.1  | 825   | 88.9   | w   | 2.0  | 8   | 晴れ | *  |       |       |     | 16.7  | 1506.5 |        |
| 8 | 29 | 22.1  | 12.9  | 16.7  | 15.6  | 826   | 91.9   | ws  | 1.6  | 10  | 雨霧 | *  | 7.2   | 0.4   |     | 17.5  | 1524.0 |        |
| 8 | 30 | 19.6  | 12.0  | 15.5  | 16.3  | 828   | 91.9   | ne  | 2.6  | 10  | 霧  | *  | 7.3   | 0.4   |     | 15.8  | 1539.8 |        |
| 8 | 31 | 16.7  | 12.5  | 15.8  | 16.0  | 825   | 92.1   | ne  | 3.8  | 10  | 雨霧 | *  | 7.2   | 0.6   |     | 14.6  | 1554.4 |        |
|   |    | 22.2  | 12.6  | 18.1  | 17.4  | 824   | 83.3   |     | 1.9  | 7   |    |    | 7.2   | 11.8  | ERR | 17.4  |        | 平均     |
|   |    | 25.7  | 15.7  | 21.9  | 19.3  | 829   | 92.6   |     | 3.8  | 10  |    |    | 7.6   | 44.5  | ERR | 20.1  |        | 最大値    |
|   |    | 16.7  | 7.2   | 13.9  | 15.3  | 820   | 55.3   |     | 0.6  | 0   |    |    | 6.8   | 0.3   | ERR | 13.9  |        | 最小値    |
|   |    | 688.7 | 391.0 | 560.4 | 538.8 | 25558 | 2582.8 |     | 60.4 | 232 |    |    | 100.9 | 165.1 | 0.0 | 539.9 |        | 合計     |
|   |    | 31    | 31    | 31    | 31    | 31    | 31     | 31  | 31   | 31  | 31 | 30 | 14    | 14    | 0   | 31    |        | 観測日数   |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
|--|--|
| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|



2009年9月 霧ヶ峰高原の気象観測データ

| 月 | 日  | 最高    | 最低    | 9時    | 地温    | 気圧    | 湿度     | 風向  | 風速   | 雲量  | 天気   | 霧  | pH   | 降水量  | 積雪  | 平均気温  | 積算温度   | 生物季節など |
|---|----|-------|-------|-------|-------|-------|--------|-----|------|-----|------|----|------|------|-----|-------|--------|--------|
| 9 | 1  | 19.4  | 11.7  | 15.9  | 15.8  | 828   | 94.3   | ne  | 1.2  | 10  | 雨0霧0 | *  | 7.3  | 0.4  |     | 15.6  | 1570.0 |        |
| 9 | 2  | 17.5  | 12.3  | 15.6  | 15.8  | 830   | 94.6   | ne  | 2.2  | 10  | 霧    | *  | 7.0  | 2.1  |     | 14.9  | 1584.9 |        |
| 9 | 3  | 19.6  | 10.1  | 17.1  | 15.8  | 830   | 93.5   | w   | 0.9  | 10  | 曇り   | *  | 7.2  | 2.5  |     | 14.9  | 1599.7 |        |
| 9 | 4  | 18.5  | 12.8  | 16.6  | 16.1  | 827   | 93.9   | ne  | 1.6  | 10  | 霧    | *  | 7.3  | 7.8  |     | 15.7  | 1615.4 |        |
| 9 | 5  | 21.1  | 9.8   | 16.0  | 14.8  | 724   | 90.6   | ne  | 3.0  | 0   | 快晴   | *  |      |      |     | 15.5  | 1630.8 |        |
| 9 | 6  | 22.1  | 10.2  | 16.7  | 15.8  | 822   | 90.3   | n   | 0.8  | 8   | 晴れ   | *  |      |      |     | 16.2  | 1647.0 |        |
| 9 | 7  | 23.2  | 7.8   | 18.0  | 15.7  | 821   | 68.9   | wnw | 1.1  | 0   | 快晴   |    |      |      |     | 15.5  | 1662.5 |        |
| 9 | 8  | 23.0  | 10.7  | 19.9  | 16.0  | 818   | 63.2   | ene | 1.5  | 0   | 快晴   | *  |      |      |     | 16.9  | 1679.3 |        |
| 9 | 9  | 17.1  | 7.9   | 12.7  | 15.1  | 820   | 91.3   | w   | 3.4  | 10  | 霧    | *  |      |      |     | 12.5  | 1691.8 |        |
| 9 | 10 | 17.6  | 2.6   | 13.2  | 13.6  | 822   | 71.9   | w   | 1.1  | 0   | 快晴   |    |      |      |     | 10.1  | 1701.9 |        |
| 9 | 11 | 18.1  | 3.9   | 12.3  | 12.9  | 824   | 72.0   | wnw | 1.0  | 2   | 晴れ   |    | 7.5  | 3.8  |     | 11.0  | 1712.9 |        |
| 9 | 12 | 12.7  | 7.9   | 11.2  | 13.0  | 823   | 90.9   | e   | 0.7  | 10  | 雨2霧1 | *  | 7.4  | 24.6 |     | 10.3  | 1723.2 |        |
| 9 | 13 | 17.0  | 6.3   | 11.7  | 12.3  | 823   | 88.4   | sw  | 3.2  | 1   | 快晴   |    |      |      |     | 11.7  | 1734.9 |        |
| 9 | 14 | 17.7  | 4.0   | 14.1  | 12.2  | 828   | 82.8   | w   | 2.1  | 2   | 晴れ   | *  | 7.2  | 1.5  |     | 10.9  | 1745.7 |        |
| 9 | 15 | 11.7  | 9.5   | 11.7  | 12.5  | 824   | 91.0   | ssw | 1.6  | 10  | 曇り   | *  |      |      |     | 10.6  | 1756.3 |        |
| 9 | 16 | 15.5  | 7.4   | 11.5  |       | 830   | 79.5   | ene | 2.6  | 3   | 晴れ   | *  |      |      |     | 11.5  | 1767.8 |        |
| 9 | 17 | 18.1  | 7.8   | 12.8  |       | 833   | 80.0   | sse | 2.1  | 5   | 晴れ   | *  |      |      |     | 13.0  | 1780.7 |        |
| 9 | 18 | 18.1  | 8.6   | 12.6  | 12.3  | 826   | 89.8   | ne  | 0.7  | 9   | 曇り   | *  |      |      |     | 13.4  | 1794.1 |        |
| 9 | 19 | 13.9  | 6.5   | 10.7  | 11.9  | 824   | 92.0   | ne  | 5.6  | 10  | 曇り   | *  |      |      |     | 10.2  | 1804.3 |        |
| 9 | 20 | 15.9  | 3.0   | 10.2  | 10.4  | 824   | 81.3   | ne  | 4.5  | 0   | 快晴   |    |      |      |     | 9.5   | 1813.7 |        |
| 9 | 21 | 16.8  | 3.9   | 12.0  | 10.1  | 828   | 84.2   | sw  | 3.1  | 2   | 晴れ   |    |      |      |     | 10.4  | 1824.1 |        |
| 9 | 22 | 16.7  | 3.8   | 12.3  | 11.4  | 826   | 90.4   | w   | 2.6  | 10  | 霧    | *  | 7.6  | 0.6  |     | 10.3  | 1834.3 |        |
| 9 | 23 | 14.7  | 9.1   | 13.3  | 12.0  | 827   | 90.6   | nw  | 0.4  | 10  | 霧    | *  |      |      |     | 11.9  | 1846.2 |        |
| 9 | 24 | 19.4  | 6.5   | 14.5  | 11.8  | 825   | 84.9   | ne  | 3.7  | 1   | 快晴   |    |      |      |     | 13.0  | 1859.2 |        |
| 9 | 25 | 20.2  | 7.5   | 15.5  | 12.1  | 828   | 86.9   | ne  | 2.8  | 3   | 晴れ   | *  |      |      |     | 13.9  | 1873.0 |        |
| 9 | 26 | 18.3  | 9.5   | 12.4  | 12.6  | 827   | 88.7   | ne  | 3.5  | 10  | 曇り   | *  |      |      |     | 13.9  | 1886.9 |        |
| 9 | 27 | 17.9  | 7.3   | 16.2  | 12.6  | 832   | 79.3   | wnw | 2.2  | 6   | 晴れ   | *  | 7.5  | 8.9  |     | 12.6  | 1899.5 |        |
| 9 | 28 | 14.5  | 7.8   | 10.8  | 11.9  | 830   | 91.2   | s   | 5.7  | 10  | 曇り   | *  |      | 5.3  |     | 11.2  | 1910.7 |        |
| 9 | 29 | 15.8  | 12.7  | 14.2  |       | 837   | 91.9   | sw  | 2.3  | 10  | 霧    | *  |      | 6.3  |     | 14.3  | 1924.9 |        |
| 9 | 30 | 13.9  | 10.4  | 12.8  |       | 838   | 91.2   | sw  | 1.8  | 10  | 霧    | *  | 7.8  | 34.9 |     | 12.2  | 1937.1 |        |
|   | 31 |       |       |       |       |       |        |     |      |     |      |    |      |      |     |       | 1937.1 |        |
|   |    | 17.5  | 8.0   | 13.8  | 13.3  | 823   | 86.0   |     | 2.3  | 6   |      |    | 7.4  | 8.2  | ERR | 12.8  |        | 平均     |
|   |    | 23.2  | 12.8  | 19.9  | 16.1  | 838   | 94.6   |     | 5.7  | 10  |      |    | 7.8  | 34.9 | ERR | 16.9  |        | 最大値    |
|   |    | 11.7  | 2.6   | 10.2  | 10.1  | 724   | 63.2   |     | 0.4  | 0   |      |    | 7.0  | 0.4  | ERR | 9.5   |        | 最小値    |
|   |    | 526.0 | 239.3 | 414.5 | 346.5 | 24699 | 2579.5 |     | 69.0 | 182 |      |    | 73.8 | 98.7 | 0.0 | 382.7 |        | 合計     |
|   |    | 30    | 30    | 30    | 26    | 30    | 30     | 30  | 30   | 30  | 30   | 23 | 10   | 12   | 0   | 30    |        | 観測日数   |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |                 |       |                             |
|-------|-----------------|-------|-----------------------------|
| 百葉箱   | いすず10号型         | 気圧計   | アネロイド/WXT510                |
| 最高温度計 | フース型温度計         | 風向風速計 | Vaisala WXT510              |
| 最低温度計 | フース型温度計         |       | 地上9.8m                      |
| 地温計   | 隔測温度計<br>地下10cm | 雨量計   | 口径20cm銅製雨量計<br>VP20(塩化ビニル管) |
| 温湿度計  | Vaisala HM34    | pH計   | ホリバ2点自動校正pH計                |

|  |  |
|--|--|
| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|

2009年10月 霧ヶ峰高原の気象観測データ

| 月  | 日  | 最高    | 最低   | 9時    | 地温    | 気圧    | 湿度     | 風向  | 風速   | 雲量  | 天気   | 霧  | pH   | 降水量   | 積雪  | 平均気温  | 積算温度   | 生物季節など |
|----|----|-------|------|-------|-------|-------|--------|-----|------|-----|------|----|------|-------|-----|-------|--------|--------|
| 10 | 1  | 16.9  | 10.8 | 12.9  | 16.7  | 830   | 94.3   | w   | 0.9  | 10  | 霧0   | *  | 7.3  | 1.7   |     | 13.9  | 1950.9 |        |
| 10 | 2  | 13.8  | 8.1  | 11.7  | 12.6  | 824   | 92.8   | s   | 5.5  | 10  | 雨0霧0 | *  | 7.5  | 30.4  |     | 11.0  | 1961.9 |        |
| 10 | 3  | 15.4  | 9.2  | 14.0  | 12.2  | 820   | 92.3   | w   | 1.4  | 10  | 雨1霧0 | *  | 7.7  | 1.0   |     | 12.3  | 1974.2 |        |
| 10 | 4  | 15.8  | 5.0  | 9.9   | 10.7  | 826   | 88.4   | w   | 2.9  | 0   | 快晴   |    |      |       |     | 10.4  | 1984.6 |        |
| 10 | 5  | 12.8  | 3.9  | 9.8   | 10.9  | 828   | 59.6   | w   | 0.6  | 10  | 曇り   | *  |      |       |     | 8.4   | 1992.9 |        |
| 10 | 6  | 11.9  | 8.1  | 9.5   |       | 834   | 89.8   | se  | 1.8  | 10  | 雨0霧0 | *  | 7.6  | 7.7   |     | 10.0  | 2002.9 |        |
| 10 | 7  | 13.2  | 6.2  | 10.1  | 9.9   | 826   | 94.6   | ne  | 2.2  | 10  | 霧2   | *  | 6.8  | 59.8  |     | 9.7   | 2012.6 |        |
| 10 | 8  | 10.6  | 5.4  | 8.8   | 7.8   | 802   | 96.2   | ene | 3.4  | 10  | 雨1   | *  | 6.8  | 2.7   |     | 8.0   | 2020.6 |        |
| 10 | 9  | 10.2  | 1.3  | 5.7   | 7.0   | 818   | 95.8   | ne  | 1.2  | 10  | 曇り   | *  |      |       |     | 5.8   | 2026.4 | 白馬冠雪   |
| 10 | 10 | 11.4  | -0.8 | 6.5   | 6.4   | 822   | 96.4   | w   | 1.4  | 1   | 快晴   |    |      |       |     | 5.3   | 2031.7 | 霜      |
| 10 | 11 | 11.7  | -1.4 | 6.6   | 5.8   | 826   | 96.9   | ne  | 2.4  | 0   | 快晴   |    |      |       |     | 5.2   | 2036.8 |        |
| 10 | 12 | 12.3  | -0.6 | 6.4   | 5.5   | 818   | 90.5   | w   | 2.6  | 1   | 快晴   |    |      |       |     | 5.9   | 2042.7 |        |
| 10 | 13 | 13.5  | 0.9  | 6.9   | 6.3   | 822   | 81.8   | w   | 3.6  | 0   | 快晴   |    |      |       |     | 7.2   | 2049.9 |        |
| 10 | 14 | 12.5  | 1.1  | 7.9   | 6.3   | 822   | 80.9   | w   | 1.5  | 10  | 曇り   |    |      |       |     | 6.8   | 2056.7 |        |
| 10 | 15 | 13.7  | -0.3 | 8.1   | 6.0   | 825   | 73.8   | nne | 0.9  | 0   | 快晴   |    | 6.8  | 0.4   |     | 6.7   | 2063.4 |        |
| 10 | 16 | 12.6  | 2.9  | 7.4   | 6.9   | 824   | 90.6   | w   | 2.4  | 7   | 晴れ   | *  |      |       |     | 7.8   | 2071.1 |        |
| 10 | 17 | 9.7   | 2.3  | 7.6   | 6.6   | 822   | 84.2   | sw  | 2.8  | 8   | 晴れ   | *  | 6.9  | 7.3   |     | 6.0   | 2077.1 |        |
| 10 | 18 | 12.5  | 3.5  | 7.6   | 7.0   | 816   | 94.1   | sw  | 2.8  | 3   | 晴れ   | *  |      |       |     | 8.0   | 2085.1 |        |
| 10 | 19 | 12.7  | -0.2 | 4.8   | 5.8   | 818   | 87.2   | w   | 3.4  | 1   | 快晴   |    |      |       |     | 6.3   | 2091.4 |        |
| 10 | 20 | 10.6  | 2.3  | 9.0   | 6.2   | 820   | 72.4   | w   | 4.1  | 10  | 曇り   |    |      |       |     | 6.5   | 2097.8 |        |
| 10 | 21 | 13.6  | -0.4 | 8.7   | 4.8   | 825   | 40.6   | w   | 2.7  | 0   | 快晴   |    |      |       |     | 6.6   | 2104.4 |        |
| 10 | 22 | 12.9  | -1.4 | 7.2   | 4.3   | 827   | 78.6   | ne  | 4.1  | 1   | 快晴   |    |      |       |     | 5.8   | 2110.2 |        |
| 10 | 23 | 14.3  | 1.9  | 8.3   | 5.0   | 826   | 77.3   | nnw | 1.3  | 0   | 快晴   | *  |      |       |     | 8.1   | 2118.3 |        |
| 10 | 24 | 9.7   | 3.1  | 8.1   | 5.7   | 828   | 79.0   | ne  | 3.0  | 10  | 曇り   | *  |      |       |     | 6.4   | 2124.7 |        |
| 10 | 25 | 5.9   | 1.2  | 5.4   | 5.3   | 828   | 94.2   | ne  | 2.7  | 10  | 霧0   | *  | 6.4  | 6.8   |     | 3.6   | 2128.2 |        |
| 10 | 26 | 7.4   | 1.2  | 5.9   | 5.1   | 823   | 95.9   | ne  | 4.8  | 10  | 雨2   | *  | 6.7  | 28.6  |     | 4.3   | 2132.5 |        |
| 10 | 27 | 10.6  | 1.7  | 6.9   | 5.1   | 818   | 94.8   | nw  | 2.3  | 9   | 曇り   |    |      |       |     | 6.2   | 2138.7 |        |
| 10 | 28 | 12.3  | -0.4 | 6.2   | 4.0   | 830   | 85.8   | sw  | 2.8  | 9   | 曇り   | *  |      |       |     | 6.0   | 2144.6 |        |
| 10 | 29 | 13.9  | 2.0  | 7.1   | 5.2   | 832   | 85.0   | sw  | 2.6  | 0   | 快晴   |    |      |       |     | 8.0   | 2152.6 | 霜      |
| 10 | 30 | 10.5  | 2.4  | 9.9   | 5.8   | 831   | 57.9   | ne  | 3.7  | 0   | 快晴   | *  |      |       |     | 6.5   | 2159.0 |        |
| 10 | 31 | 15.4  | 1.5  | 9.6   | 5.2   | 831   | 60.0   | s   | 3.6  | 0   | 快晴   |    |      |       |     | 8.5   | 2167.5 |        |
|    |    | 12.3  | 2.6  | 8.2   | 7.1   | 824   | 83.9   |     | 2.6  | 5   |      |    | 7.1  | 14.6  | ERR | 7.4   |        | 平均     |
|    |    | 16.9  | 10.8 | 14.0  | 16.7  | 834   | 96.9   |     | 5.5  | 10  |      |    | 7.7  | 59.8  | ERR | 13.9  |        | 最大値    |
|    |    | 5.9   | -1.4 | 4.8   | 4.0   | 802   | 40.6   |     | 0.6  | 0   |      |    | 6.4  | 0.4   | ERR | 3.6   |        | 最小値    |
|    |    | 380.3 | 80.5 | 254.5 | 212.1 | 25542 | 2601.7 |     | 81.4 | 170 |      |    | 70.5 | 146.4 | 0.0 | 230.4 |        | 合計     |
|    |    | 31    | 31   | 31    | 30    | 31    | 31     | 31  | 31   | 31  | 31   | 17 | 10   | 10    | 0   | 31    |        | 観測日数   |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
|--|--|
| 冬期の降水量はVP20(内径20cm,高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|

2009年11月 霧ヶ峰高原の気象観測データ

| 月  | 日  | 最高    | 最低    | 9時   | 地温   | 気圧    | 湿度     | 風向  | 風速   | 雲量  | 天気   | 霧  | pH   | 降水量   | 積雪   | 平均気温   | 積算温度   | 生物季節など   |
|----|----|-------|-------|------|------|-------|--------|-----|------|-----|------|----|------|-------|------|--------|--------|----------|
| 11 | 1  | 15.5  | 2.3   | 8.9  | 5.8  | 824   | 91.7   | w   | 3.7  | 10  | 曇り   | *  | 6.8  | 20.0  |      | 8.9    | 2176.4 |          |
| 11 | 2  | 5.2   | -1.2  | 4.4  | 5.4  | 818   | 92.3   | nw  | 2.2  | 10  | 曇り   | *  | 6.7  | 7.5   |      | 2.0    | 2178.4 | 初雪17:00～ |
| 11 | 3  | 1.4   | -10.4 | -3.8 | 2.9  | 824   | 86.8   | nnw | 2.6  | 7   | 晴れ   |    |      | 5.5   | -4.5 | 2173.9 |        |          |
| 11 | 4  | 8.2   | -6.4  | 1.0  | 1.5  | 832   | 84.0   | ws  | 3.0  | 0   | 快晴   |    |      |       |      | 0.9    | 2174.8 |          |
| 11 | 5  | 7.9   | -2.0  | 4.7  | 1.7  | 830   | 54.1   | w   | 2.4  | 8   | 晴れ   |    |      |       |      | 3.0    | 2177.7 |          |
| 11 | 6  | 12.8  | -1.1  | 6.6  | 1.8  | 828   | 72.7   | wnw | 0.9  | 0   | 快晴   |    |      |       |      | 5.9    | 2183.6 |          |
| 11 | 7  | 12.7  | 0.6   | 6.4  | 2.3  | 828   | 77.6   | ws  | 1.9  | 0   | 快晴   |    |      |       |      | 6.7    | 2190.2 |          |
| 11 | 8  | 13.9  | 1.5   | 7.3  | 3.2  | 828   | 80.1   | w   | 1.0  | 10  | 曇り   |    |      |       |      | 7.7    | 2197.9 |          |
| 11 | 9  | 14.6  | 2.4   | 9.0  | 3.2  | 826   | 63.1   | nw  | 0.8  | 10  | 曇り   |    |      |       |      | 8.5    | 2206.4 |          |
| 11 | 10 | 13.1  | 2.7   | 8.1  | 4.0  | 824   | 78.3   | w   | 1.4  | 1   | 快晴   | *  | 6.8  | 40.0  |      | 7.9    | 2214.3 |          |
| 11 | 11 | 8.3   | 5.1   | 7.7  | 5.3  | 818   | 94.7   | ne  | 3.7  | 10  | 霧0雨2 | *  | 6.6  | 17.2  |      | 6.7    | 2221.0 |          |
| 11 | 12 | 4.2   | -2.5  | 1.1  | 3.6  | 827   | 95.3   | ne  | 7.9  | 10  | 霧0   | *  | 6.3  | 0.6   |      | 0.9    | 2221.9 |          |
| 11 | 13 | 9.3   | -3.4  | 0.4  | 2.5  | 828   | 97.8   | e   | 3.9  | 10  | 霧1   | *  | 6.5  | 28.6  |      | 3.0    | 2224.8 | 霧氷       |
| 11 | 14 | 9.7   | -2.5  | 9.3  | 4.6  | 812   | 94.9   | w   | 5.7  | 10  | 霧1雨2 | *  | 6.1  | 6.1   |      | 3.6    | 2228.4 |          |
| 11 | 15 | 5.4   | -1.2  | 2.4  | 3.1  | 817   | 97.1   | w   | 5.3  | 8   | 晴れ   |    |      |       |      | 2.1    | 2230.5 |          |
| 11 | 16 | 4.5   | 3.2   | 0.9  | 2.6  | 824   | 78.9   | w   | 3.9  | 10  | 曇り   |    |      |       |      | 3.9    | 2234.4 |          |
| 11 | 17 | 2.4   | -1.9  | -0.1 | 0.9  | 822   | 94.9   | ene | 3.1  | 10  | 雪2   | *  |      |       | 6.0  | 0.3    | 2234.6 |          |
| 11 | 18 | 0.0   | -5.4  | -3.5 |      | 828   | 89.3   | e   | 4.2  | 10  | 霧1   | *  | 6.4  | 20.3  |      | -2.7   | 2231.9 |          |
| 11 | 19 | 2.6   | -3.9  | -0.3 |      | 833   | 82.3   | w   | 3.2  | 10  | 霧1雪0 | *  |      |       | 6.5  | -0.7   | 2231.3 |          |
| 11 | 20 | 4.3   | -8.4  | 1.3  | -0.2 | 826   | 92.0   | ne  | 3.5  | 1   | 快晴   | *  |      |       | 6.5  | -2.1   | 2229.2 |          |
| 11 | 21 | 2.6   | -5.9  | -1.5 | -0.3 | 822   | 93.5   | nw  | 4.5  | 2   | 晴れ   |    |      |       | 5.0  | -1.7   | 2227.6 |          |
| 11 | 22 | 1.6   | -8.1  | -0.2 | -0.5 | 827   | 91.3   | wnw | 3.0  | 10  | 曇り   |    |      |       | 4.5  | -3.3   | 2224.3 |          |
| 11 | 23 | 6.7   | -3.2  | 1.7  | -0.3 | 826   | 88.5   | w   | 2.0  | 0   | 快晴   | *  |      |       | 7.5  | 1.8    | 2226.1 |          |
| 11 | 24 | 5.1   | -4.7  | 1.6  | -0.2 | 829   | 90.7   | ssw | 2.5  | 6   | 晴れ   |    |      |       |      | 0.2    | 2226.2 |          |
| 11 | 25 | 7.4   | 2.3   | 5.3  |      | 830   | 91.2   | sw  | 2.9  | 10  | 霧1   | *  |      |       |      | 4.9    | 2231.1 |          |
| 11 | 26 | 8.6   | 0.3   | 2.2  |      | 834   | 81.9   | sse | 2.7  | 1   | 快晴   | *  |      |       |      | 4.5    | 2235.5 |          |
| 11 | 27 | 8.0   | 0.8   | 2.6  |      | 834   | 82.1   | w   | 3.8  | 4   | 晴れ   |    |      |       |      | 4.4    | 2239.9 |          |
| 11 | 28 | 4.7   | -3.7  | 1.8  |      | 831   | 81.7   | s   | 3.4  | 10  | 霧0   | *  |      |       |      | 0.5    | 2240.4 |          |
| 11 | 29 | 5.6   | -3.2  | 0.6  |      | 831   | 92.2   | sw  | 3.1  | 7   | 晴れ   |    |      |       |      | 1.2    | 2241.6 |          |
| 11 | 30 | 2.2   | -0.7  | 1.2  |      | 829   |        | sw  | 2.3  | 10  | 霧1   | *  | 6.3  | 32.8  |      | 0.8    | 2242.4 |          |
|    | 31 |       |       |      |      |       |        |     |      |     |      |    |      |       |      |        | 2242.4 |          |
|    |    | 7.0   | -2.0  | 2.9  | 2.4  | 826   | 85.9   |     | 3.2  | 7   |      |    | 6.5  | 19.2  | 5.9  | 2.5    |        | 平均       |
|    |    | 15.5  | 5.1   | 9.3  | 5.8  | 834   | 97.8   |     | 7.9  | 10  |      |    | 6.8  | 40.0  | 7.5  | 8.9    |        | 最大値      |
|    |    | 0.0   | -10.4 | -3.8 | -0.5 | 812   | 54.1   |     | 0.8  | 0   |      |    | 6.1  | 0.6   | 4.5  | -4.5   |        | 最小値      |
|    |    | 208.5 | -58.6 | 87.1 | 52.9 | 24790 | 2491.0 |     | 94.5 | 205 |      |    | 58.5 | 173.1 | 41.5 | 75.0   |        | 合計       |
|    |    | 30    | 30    | 30   | 22   | 30    | 29     | 30  | 30   | 30  | 30   | 16 | 9    | 9     | 7    | 30     |        | 観測日数     |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0～360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
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| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|

2009年12月 霧ヶ峰高原の気象観測データ

| 月  | 日  | 最高   | 最低     | 9時     | 地温    | 気圧    | 湿度     | 風向  | 風速    | 雲量  | 天気 | 霧  | pH   | 降水量  | 積雪    | 平均気温   | 積算温度   | 生物季節など |
|----|----|------|--------|--------|-------|-------|--------|-----|-------|-----|----|----|------|------|-------|--------|--------|--------|
| 12 | 1  | 5.4  | -2.0   | 0.9    | 0.0   | 824   | 81.6   | sw  | 1.4   | 0   | 快晴 |    |      |      | 3.0   | 1.7    | 2244.1 |        |
| 12 | 2  | 7.1  | -3.6   | 1.7    | -0.2  | 827   | 71.2   | sw  | 1.3   | 0   | 快晴 |    |      |      | 3.0   | 1.8    | 2245.8 |        |
| 12 | 3  | 3.8  | -2.7   | 3.1    | -0.2  | 821   | 84.8   | w   | 3.0   | 10  | 曇り | *  | 6.4  | 10.4 | 3.0   | 0.6    | 2246.4 |        |
| 12 | 4  | 0.9  | -4.1   | -1.3   | -0.4  | 819   | 96.1   | ne  | 3.1   | 10  | 雪0 | *  |      |      | 3.5   | -1.6   | 2244.8 |        |
| 12 | 5  | 0.8  | -6.1   | -0.8   | -0.7  | 822   | 97.6   | sw  | 3.9   | 10  | 霧0 | *  | 6.2  | 12.5 | 2.5   | -2.7   | 2242.1 |        |
| 12 | 6  | 2.5  | -3.5   | -0.5   | -0.8  | 816   | 93.1   | nw  | 3.1   | 1   | 快晴 | *  |      |      | 9.5   | -0.5   | 2241.6 |        |
| 12 | 7  | 1.1  | -9.3   | -3.8   | -1.0  | 821   | 88.9   | w   | 1.8   | 0   | 快晴 |    |      |      | 9.0   | -4.1   | 2237.5 |        |
| 12 | 8  | 2.6  | -10.8  | -0.3   | -1.0  | 826   | 50.1   | w   | 1.7   | 0   | 快晴 |    |      |      | 9.0   | -4.1   | 2233.4 |        |
| 12 | 9  | 3.4  | -2.1   | 0.9    |       | 832   | 81.9   | sw  | 3.0   | 10  | 曇り | *  |      |      |       | 0.7    | 2234.1 |        |
| 12 | 10 | 5.2  | -2.4   | -0.5   |       | 833   | 81.1   | sse | 3.5   | 6   | 晴れ | *  | 6.3  | 6.8  |       | 1.4    | 2235.5 |        |
| 12 | 11 | 3.8  | -4.8   | -0.4   | -1.0  | 824   | 96.0   | sse | 5.3   | 10  | 雪1 | *  | 6.3  | 17.4 | 15.0  | -0.5   | 2235.0 |        |
| 12 | 12 | 6.6  | -3.1   | 3.7    | -0.9  | 821   | 95.3   | sw  | 3.2   | 3   | 晴れ |    | 6.0  | 0.3  | 19.5  | 1.8    | 2236.7 |        |
| 12 | 13 | 1.6  | -6.7   | -3.8   | -1.1  | 819   | 97.7   | ne  | 5.5   | 10  | 霧0 | *  | 6.1  | 3.1  | 13.0  | -2.6   | 2234.2 |        |
| 12 | 14 | 1.0  | -7.7   | -2.6   | -1.1  | 818   | 97.8   | wnw | 4.2   | 10  | 霧0 |    |      |      | 16.0  | -3.4   | 2230.8 |        |
| 12 | 15 | -1.4 | -12.4  | -6.4   | -1.2  | 819   | 95.1   | wnw | 4.3   | 3   | 晴れ |    |      |      | 18.0  | -6.9   | 2223.9 |        |
| 12 | 16 | -1.7 | -6.8   | -5.6   |       | 824   | 78.9   | wnw | 3.3   | 10  | 曇り |    |      |      |       | -4.3   | 2219.7 |        |
| 12 | 17 | -0.6 | -10.0  | -7.5   |       | 822   | 94.9   | wnw | 4.2   | 10  | 霧1 | *  | 6.9  | 3.3  |       | -5.3   | 2214.4 |        |
| 12 | 18 | -9.2 | -12.8  | -9.2   | -1.8  | 808   | 97.0   | w   | 4.6   | 10  | 雪1 | *  | 6.4  | 8.2  | 22.0  | -11.0  | 2203.4 |        |
| 12 | 19 |      | -13.3  | -10.0  | -1.8  | 810   | 95.9   | sw  | 0.4   | 10  | 雪1 | *  |      |      | 44.0  | -6.7   | 2196.7 |        |
| 12 | 20 | -6.7 |        |        |       |       |        |     |       | 10  | 霧1 | *  | 5.6  | 5.6  |       | -3.4   | 2193.4 |        |
| 12 | 21 | -6.8 | -12.3  | -7.8   | -1.4  | 812   | 91.2   | nw  | 3.9   | 7   | 晴れ |    |      |      | 37.0  | -9.6   | 2183.8 |        |
| 12 | 22 | -1.8 | -13.8  | -7.1   | -1.4  | 820   | 60.7   | sw  | 2.9   | 0   | 快晴 |    |      |      | 34.0  | -7.8   | 2176.0 |        |
| 12 | 23 | -1.6 | -9.7   | -5.2   | -1.5  | 821   | 92.9   | wnw | 3.1   | 4   | 晴れ |    |      |      | 31.5  | -5.7   | 2170.4 |        |
| 12 | 24 | 1.9  | -7.4   | -3.8   | -1.2  | 821   | 96.9   | n   | 0.8   | 2   | 晴れ |    |      |      | 30.5  | -2.8   | 2167.6 |        |
| 12 | 25 | 3.1  | -11.1  | -5.7   | -1.4  | 818   | 79.6   | ne  | 5.8   | 0   | 快晴 |    | 6.1  | 4.2  | 30.0  | -4.0   | 2163.6 |        |
| 12 | 26 | 1.8  | -7.8   | -1.0   | -1.2  | 816   | 97.7   | sw  | 3.9   | 10  | 霧0 | *  |      |      | 31.5  | -3.0   | 2160.6 |        |
| 12 | 27 | 1.1  | -10.1  | -5.9   | -1.5  | 818   | 95.7   | ene | 4.8   | 8   | 晴れ |    | 5.8  | 6.7  | 30.5  | -4.5   | 2156.1 |        |
| 12 | 28 | -0.6 | -8.0   | -2.2   | -1.5  | 812   | 98.2   | n   | 10.9  | 10  | 2  | *  | 5.6  | 2.6  | 33.5  | -4.3   | 2151.8 |        |
| 12 | 29 | -1.1 | -14.0  | -7.3   | -1.6  | 817   | 95.8   | ene | 1.5   | 0   | 快晴 | *  |      |      | 35.0  | -7.6   | 2144.3 |        |
| 12 | 30 | -0.8 | -9.4   | -6.3   | -1.6  | 816   | 82.5   | w   | 4.2   | 10  | 曇り | *  |      |      | 35.0  | -5.1   | 2139.2 |        |
| 12 | 31 |      | -9.5   | -7.3   | -1.6  | 802   | 85.3   | nw  | 4.1   | 10  | 雪0 |    |      |      | 44.0  | -4.8   | 2134.4 |        |
|    |    | 0.7  | -7.9   | -3.4   | -1.1  | 819   | 88.4   |     | 3.6   | 6   |    |    | 6.1  | 6.8  | 21.6  | -3.5   |        | 平均     |
|    |    | 7.1  | -2.0   | 3.7    | 0.0   | 833   | 98.2   |     | 10.9  | 10  |    |    | 6.9  | 17.4 | 44.0  | 1.8    |        | 最大値    |
|    |    | -9.2 | -14.0  | -10.0  | -1.8  | 802   | 50.1   |     | 0.4   | 0   |    |    | 5.6  | 0.3  | 2.5   | -11.0  |        | 最小値    |
|    |    | 21.4 | -237.3 | -102.0 | -29.1 | 24579 | 2651.5 |     | 106.7 | 194 |    |    | 73.7 | 81.1 | 562.5 | -108.0 |        | 合計     |
|    |    | 29   | 30     | 30     | 26    | 30    | 30     | 30  | 30    | 31  | 31 | 16 | 12   | 12   | 26    | 31     |        | 観測日数   |

[備考]

|    |         |     |           |
|----|---------|-----|-----------|
| 気温 | ℃       | 気圧  | Hpa       |
| 地温 | ℃       | 湿度  | %         |
| 風向 | 0~360°  | 降水量 | mm        |
| 風速 | m/s     | 積雪  | cm        |
|    | 10分間の平均 |     | 2本の積雪棒の平均 |

観測時間 午前9時

観測地点 北緯36° 07' 08.43" 東経138° 09' 33.76"

標高1656m

長野県諏訪郡下諏訪町八島湿原10618

|       |              |       |                |
|-------|--------------|-------|----------------|
| 百葉箱   | いすず10号型      | 気圧計   | アネロイド/WXT510   |
| 最高温度計 | フース型温度計      | 風向風速計 | Vaisala WXT510 |
| 最低温度計 | フース型温度計      |       | 地上9.8m         |
| 地温計   | 隔測温度計        | 雨量計   | 口径20cm銅製雨量計    |
|       | 地下10cm       |       | VP20(塩化ビニル管)   |
| 温湿度計  | Vaisala HM34 | pH計   | ホリバ2点自動校正pH計   |

|  |  |
|--|--|
| 冬期の降水量はVP20(内径20cm.高さ50cm)で降雪を受け室温で融解し計測 | 平均気温=(最高気温+最低気温)÷2<br>積算温度=1月1日からの日平均気温の積算 |
|--|--|