

| | Without multicollinearity | | Period I | | | | | | Period II | | | | | |
|-----------------------------|----------------------------|--------------------|-----------------|--------------|---------------|--------------|---------------|---------------|-----------------|--------------|---------------|--------------|---------------|---------------|
| | Tolerance of the predictor | Variance inflation | exp(<i>B</i>) | sig. | <i>B</i> | SE | upper | lower | exp(<i>B</i>) | sig. | <i>B</i> | SE | upper | lower |
| Soil temperature 0 cm | 0.731 | 1.368 | 1.015 | 0.000 | 0.015 | 0.001 | 0.013 | 0.017 | 0.809 | 0.000 | -0.212 | 0.003 | -0.218 | -0.207 |
| Soil temperature 10 cm | 0.492 | 2.031 | 1.788 | 0.000 | 0.581 | 0.002 | 0.577 | 0.586 | 1.352 | 0.000 | 0.301 | 0.004 | 0.294 | 0.309 |
| Soil moisture 0 cm | 0.355 | 2.819 | 1.242 | 0.000 | 0.216 | 0.002 | 0.212 | 0.220 | 0.907 | 0.000 | -0.097 | 0.001 | -0.098 | -0.096 |
| Soil moisture 1.5 cm | 0.196 | 5.102 | 1.061 | 0.000 | 0.059 | 0.001 | 0.057 | 0.061 | 1.044 | 0.000 | 0.043 | 0.001 | 0.041 | 0.044 |
| Soil moisture 10 cm | 0.267 | 3.749 | 0.991 | 0.000 | -0.009 | 0.001 | -0.011 | -0.007 | 1.110 | 0.000 | 0.104 | 0.001 | 0.103 | 0.105 |
| Snow height | 0.495 | 2.021 | 1.013 | 0.000 | 0.013 | 0.000 | 0.013 | 0.013 | 1.002 | 0.000 | 0.002 | 0.000 | 0.001 | 0.002 |
| LWC | 0.421 | 2.376 | 1.390 | 0.000 | 0.329 | 0.003 | 0.323 | 0.335 | 1.078 | 0.000 | 0.075 | 0.002 | 0.070 | 0.078 |
| Air temperature | 0.353 | 2.836 | 1.035 | 0.000 | 0.034 | 0.001 | 0.032 | 0.037 | 0.981 | 0.000 | -0.019 | 0.001 | -0.020 | -0.018 |
| Relative humidity | 0.554 | 1.804 | 1.009 | 0.000 | 0.009 | 0.000 | 0.008 | 0.009 | 1.002 | 0.000 | 0.002 | 0.000 | 0.002 | 0.002 |
| Global radiation | 0.867 | 1.153 | 1.001 | 0.000 | 0.001 | 0.000 | 0.001 | 0.001 | 1.001 | 0.000 | 0.001 | 0.000 | 0.001 | 0.001 |
| Static friction coefficient | 0.807 | 1.239 | 0.448 | 0.000 | -0.802 | 0.033 | -0.873 | -0.731 | 0.321 | 0.000 | -1.137 | 0.023 | -1.177 | -1.078 |
| Stagnation depth | 0.395 | 2.529 | 0.998 | 0.000 | -0.002 | 0.000 | -0.002 | -0.001 | 0.995 | 0.000 | -0.005 | 0.000 | -0.006 | -0.005 |
| Slope angle | 0.630 | 1.587 | 1.016 | 0.000 | 0.016 | 0.001 | 0.015 | 0.018 | 1.060 | 0.000 | 0.058 | 0.000 | 0.058 | 0.059 |
| Slope angle 1 m uphill | 0.721 | 1.387 | 0.998 | 0.000 | -0.002 | 0.001 | -0.003 | -0.001 | 0.983 | 0.000 | -0.017 | 0.000 | -0.018 | -0.017 |
| Slope angle 1 m downhill | 0.809 | 1.236 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.994 | 0.000 | -0.006 | 0.000 | -0.007 | -0.006 |
| Slope length uphill | 0.631 | 1.584 | 0.827 | 0.000 | -0.190 | 0.002 | -0.194 | -0.186 | 1.035 | 0.000 | 0.035 | 0.001 | 0.032 | 0.037 |
| Slope length downhill | 0.790 | 1.266 | 1.008 | 0.000 | 0.008 | 0.002 | 0.005 | 0.012 | 0.955 | 0.000 | -0.046 | 0.001 | -0.048 | -0.044 |
| Friction force drum | 0.392 | 2.553 | 1.009 | 0.000 | 0.009 | 0.000 | 0.009 | 0.009 | 0.999 | 0.000 | -0.001 | 0.000 | -0.001 | -0.001 |
| Phytomass of dwarf shrubs | 0.547 | 1.828 | 0.988 | 0.000 | -0.012 | 0.000 | -0.013 | -0.012 | 0.995 | 0.000 | -0.005 | 0.000 | -0.005 | -0.005 |
| Phytomass of mosses | 0.752 | 1.330 | 0.618 | 0.000 | -0.482 | 0.008 | -0.497 | -0.464 | 0.355 | 0.000 | -1.037 | 0.006 | -1.049 | -1.024 |
| Cover of lichen | 0.583 | 1.715 | 0.985 | 0.000 | -0.016 | 0.000 | -0.016 | -0.015 | 0.980 | 0.000 | -0.020 | 0.000 | -0.021 | -0.020 |