Air movements in soil

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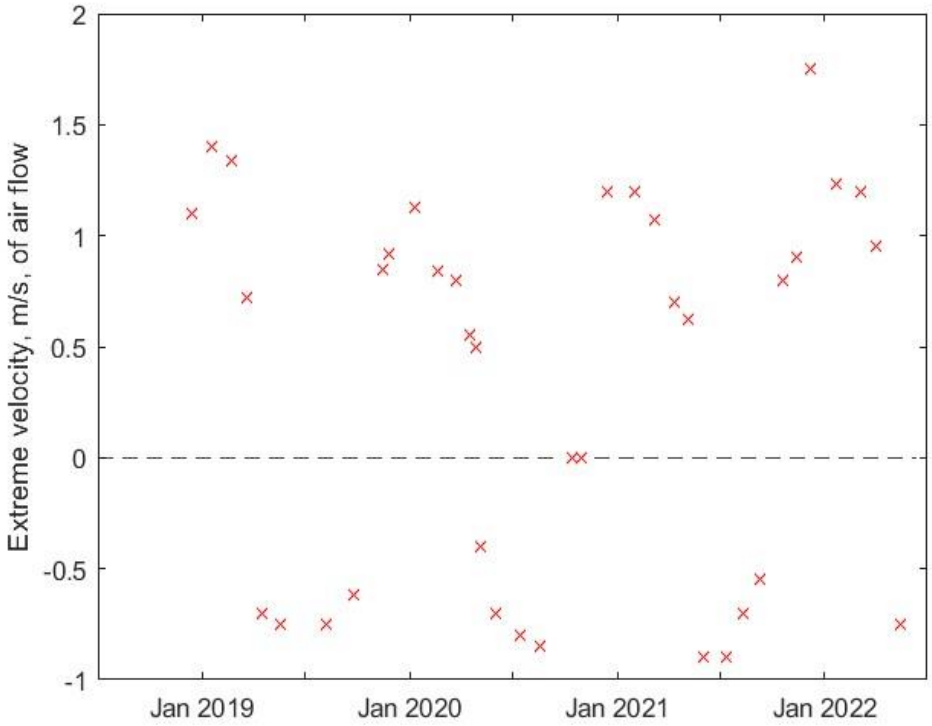
Soil above groundwater has air and water. Their movements have been examined by Green and Ampt (1911) and Morel-Seytoux (1973). Morel-Seytoux (2020) is still active.

In Hämeenlinna in Mustasuppa pit of Leiriharju esker I made measurements in 2004. Between 27.7. and 3.8. there was a big rain event (Kasi, 2006), and the following piston flow (Ksiazynski, 1994) circumstances were observed.

Since 2018 I have measured air movements in Leiriharju, Figure below. On the top of esker the positive winter velocities in the Figure are of the upwards flowing 100 % moist air in mean temperature +7.2 °C. Then the lowest atmospheric temperature was -21.4 °C. What is happening on groundwater surface? I think Morel-Seytoux better presents my surface in 1973 than in 2020.



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