

you are variations
04/02

time space silence light

a series of events dedicated to the influences of Nan Hoover
1931 NYC -2008 Berlin

special edition
for Nan

Amsterdam, September 2014
Christina Della Giustina, 15/2

'you are variations'
scoring scientific methods, sounding water's cycles, becoming intimate with trees

How can we meet a tree?

Is it possible to get to know trees?

To hear them and become familiar with them?

*How intensely, under what conditions, and through what forms of knowledge
do we experience and engage with "creation", including ourselves?*

How is it we ethically relate to the environment?

'you are variations' turns scientific long-term data of tree activities into tangible events, resulting in an intersection of the scientific and the aesthetic;
that is not just to question different knowledge regimes, but to explore the power that their mutual exchange and dialogue has in creating relationships with the environment;
that is creating (the condition for) an attitude of perceiving oneself together (with ...).

Entangled with these epistemological probing
- what forms of intimacies with the organic do our known approaches distinguish, prevent, suggest, envision, and enable? -
are further questions that speak to a common querying across disciplines concerning our ways of being with ourselves and the world.
'you are variation' examines the environmental sensitivity of this 'being'.

In probing the interface, the meeting points, and the fault-lines of a series of different knowledge forms, oscillating between the scientific and the aesthetic,
what is set in motion are relationships between these modes of exploration and understanding, and in doing so the possibilities for something hybrid, something else, something maybe new.

The method is composing and performative, testing - in the process - forms of meeting and relating to trees; we created molecular polyphonies, electro-acoustic polyrhythms, and oral as well as written poetry.
The results of these different experimental processes of engaging is a collage of sorts, a kind of material intimacies, in which the formal interweaving of diverse types of material (digital, acoustic, poetic)
performs a fertile heterogeneity, a conscious disorganization and re-organization.

The performances, installations, and books realized so far are affected and inspired by trees, building a cluster of experiments that test the possibility, the quality and the degree of intensity in experiencing trees.
Its resonations can be seen as attempts to convert distance into intensity, focusing on a qualitative transformation of distance into immediacy of relation to tree and self.
The working of these pieces through depends on their capacity to create contact zones,
and mediate between worlds; acting as ladders or bridges, similar to the water climbing trees.
It is in this mediating capacity that 'you are variations, version 04/02' is dedicated to my friend Nan Hoover.

'you are variations' takes place against the backdrop of concerns with the observable trends in climatic change, and the related known and unknown modifications, both globally as well as in our own microclimates.
It may not be an easily graspable subject: 'you are variations' draws attention to the complex water cycling and sophisticated energy balance of trees under different environmental conditions.
Its queries are relevant for contemporary regimes of scientific knowledge, especially those concerned with climate futures;
as well as for queries regarding art's capacity to cultivate a set of environmental dispositions that cause pause for thought, and at the same time might move us,
for the sake of all human and non-human others we would like to live together and become intimate with.

LWF plot Lausanne *

list of parameters
with orchestration

- atmosphere	<ul style="list-style-type: none">relative air humidity [%]precipitation [mm]	dynamics H ₂ O	oud, bass clarinet
- tree	<ul style="list-style-type: none">global solar radiation [W/m /s]photosynthetic active radiation [micro²mol/m /s]evapotranspiration [mm])	tempo [bpm]	tutti
		articulation [staccato - legatissimo]	celli, oud
		length of breath H ₂ O	bass clarinet
- soil	<ul style="list-style-type: none">soil humidity³[m /m at 80 cm depth]	dynamics H ₂ O	marimba phone, glassharp

- * date of installation: 5 September 1994
- * altitude: 800-814 m
- * mean slope: 7%
- * size of the plot: 2 ha

- geological structure: subsoil: Tertiary Miocene, Burdigalian (upper molasse: sandstone) surface: Quaternary, Würm glaciation (würm-glacial Moraine)
- soil types: District Cambisols
- management system: high forest

- main tree species: *Fagus sylvatica* (quadratic average diameter of the 100 thickest trees per ha): 59.9 cm
- top-height diameter BHD >= 12 cm (2011): 650
- number of trees
- maximum tree age: *Abies alba* 160-170 yr - *Picea abies* 160-170 yr - *Fagus sylvatica* 160-170 yr

H₂O

O₂

C

SiO₂

CaCO₃

CaAl₂SiO₈

KAlSiO₈

NaAlSiO₈

sound motifs 'soil' [for Marimba]

C₆H₁₀O₅
cellulose

C₅H₁₀O₅
xylose

C₉H₁₀O₂
lignin

sound motif 'tree' [for Celli]



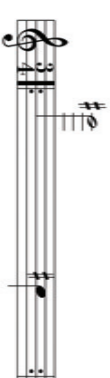
O2



H2O



N2



H2O

sound motifs 'air' [*for Oud*]

sound motif 'water' [*for Flute*]

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thanks to

Iona Blockey, cello

Dieter Buchwalder, glassharp

Ago Grzybowska Yano, marimba phone

Christian Moser, oud

Francis Petter, bass clarinet

Désirée Senn, cello

René Thie, electronics

Dr. Andreas Rigling

Head Research Unit Forest Dynamics and Member Board of Directors, WSL

Dr. Marcus Schaub and Dr. Peter Waldner

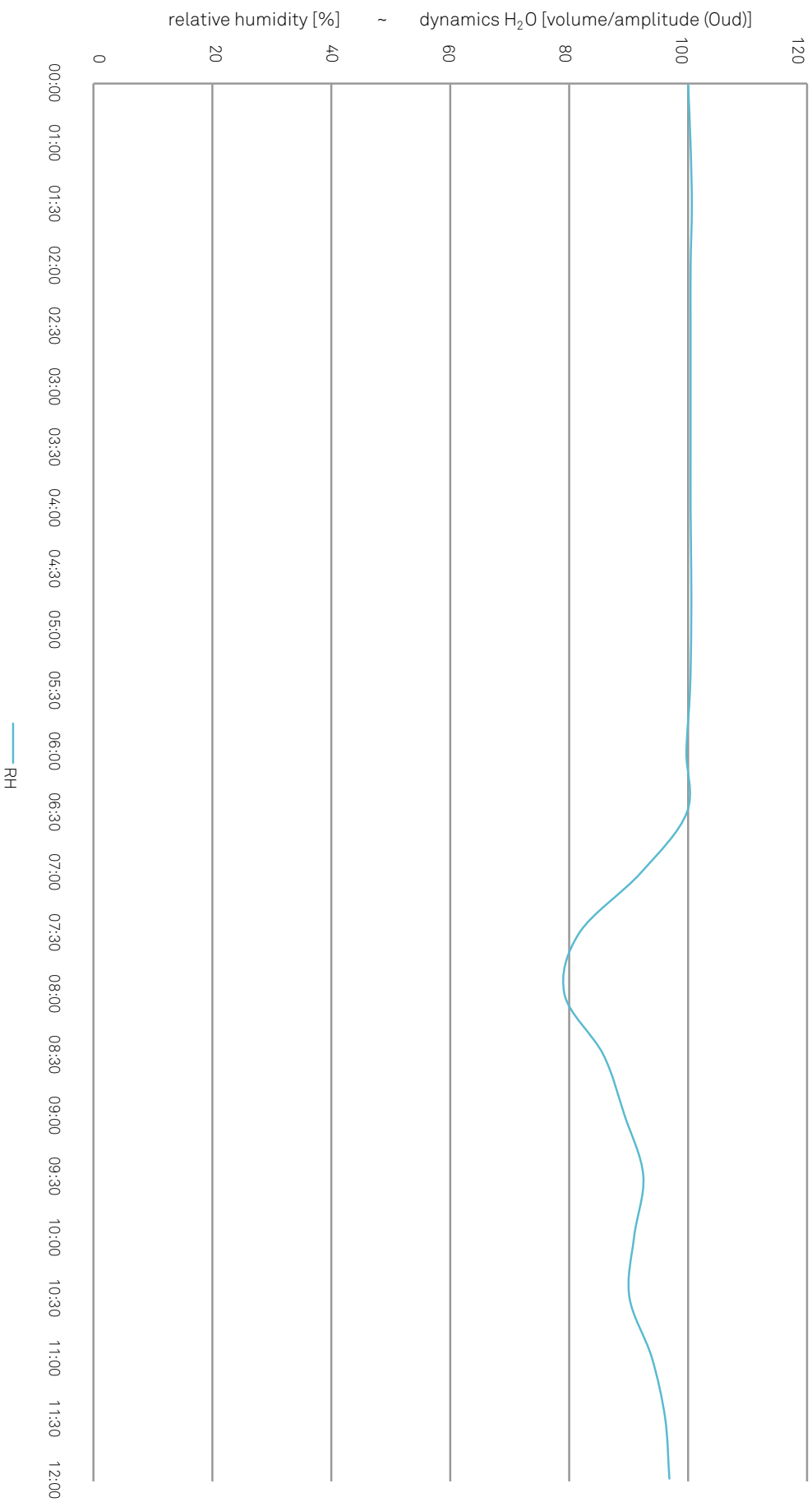
Programme heads LWF, WSL

J. Pasila

Amsterdam, September 2014
Christina Della Giustina, 15/2

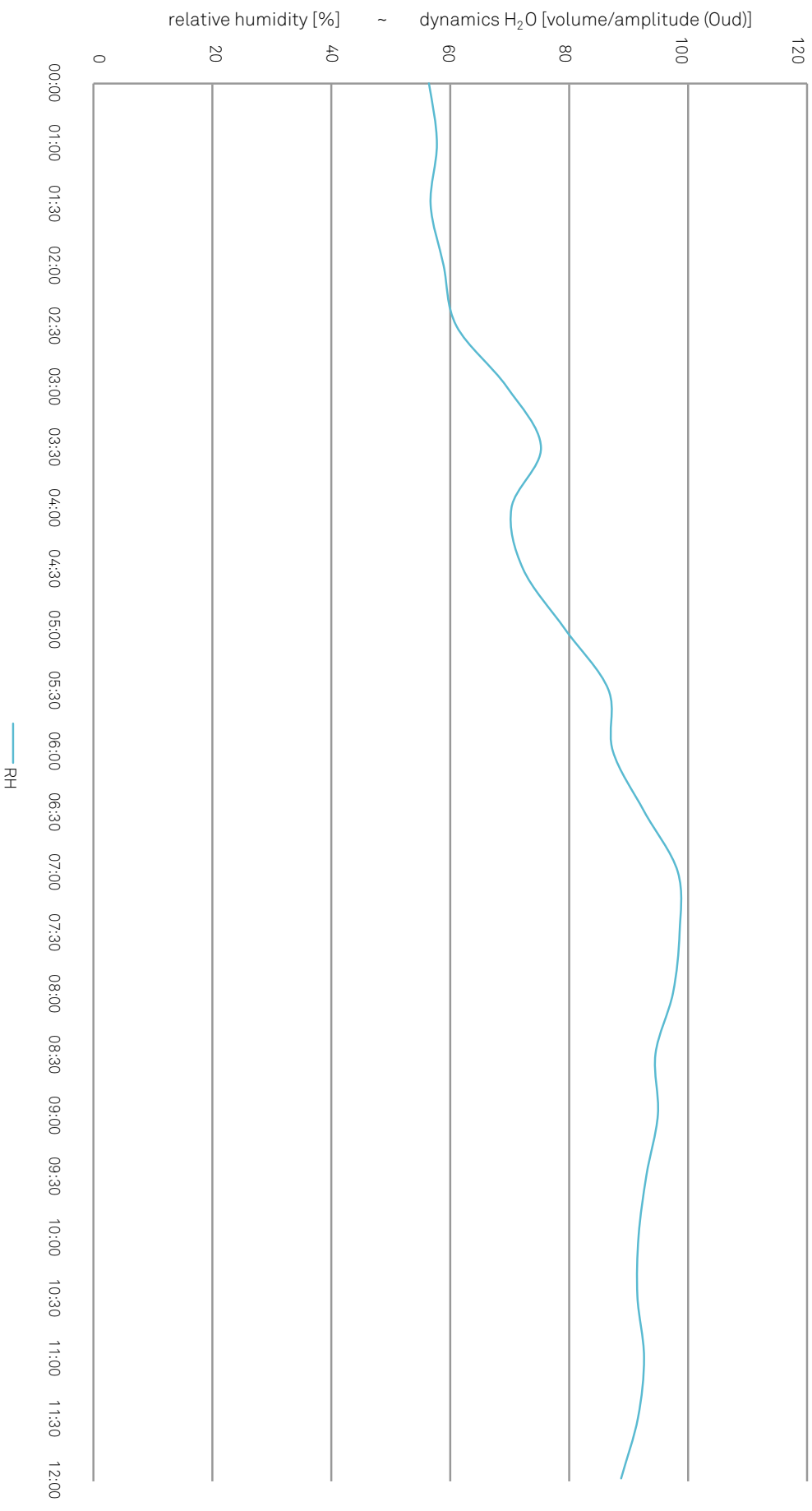
relative air humidity

autumn



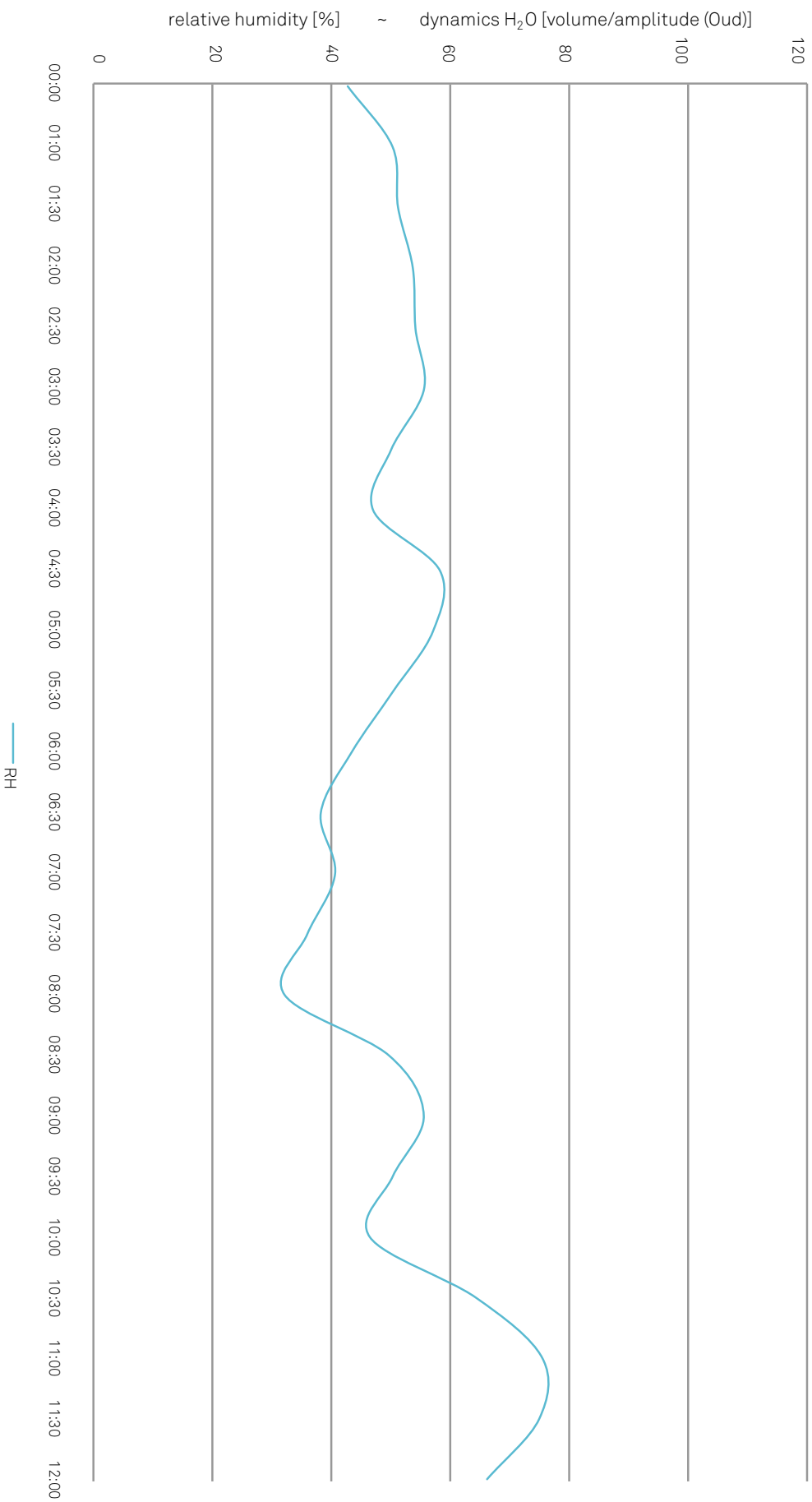
relative air humidity

spring



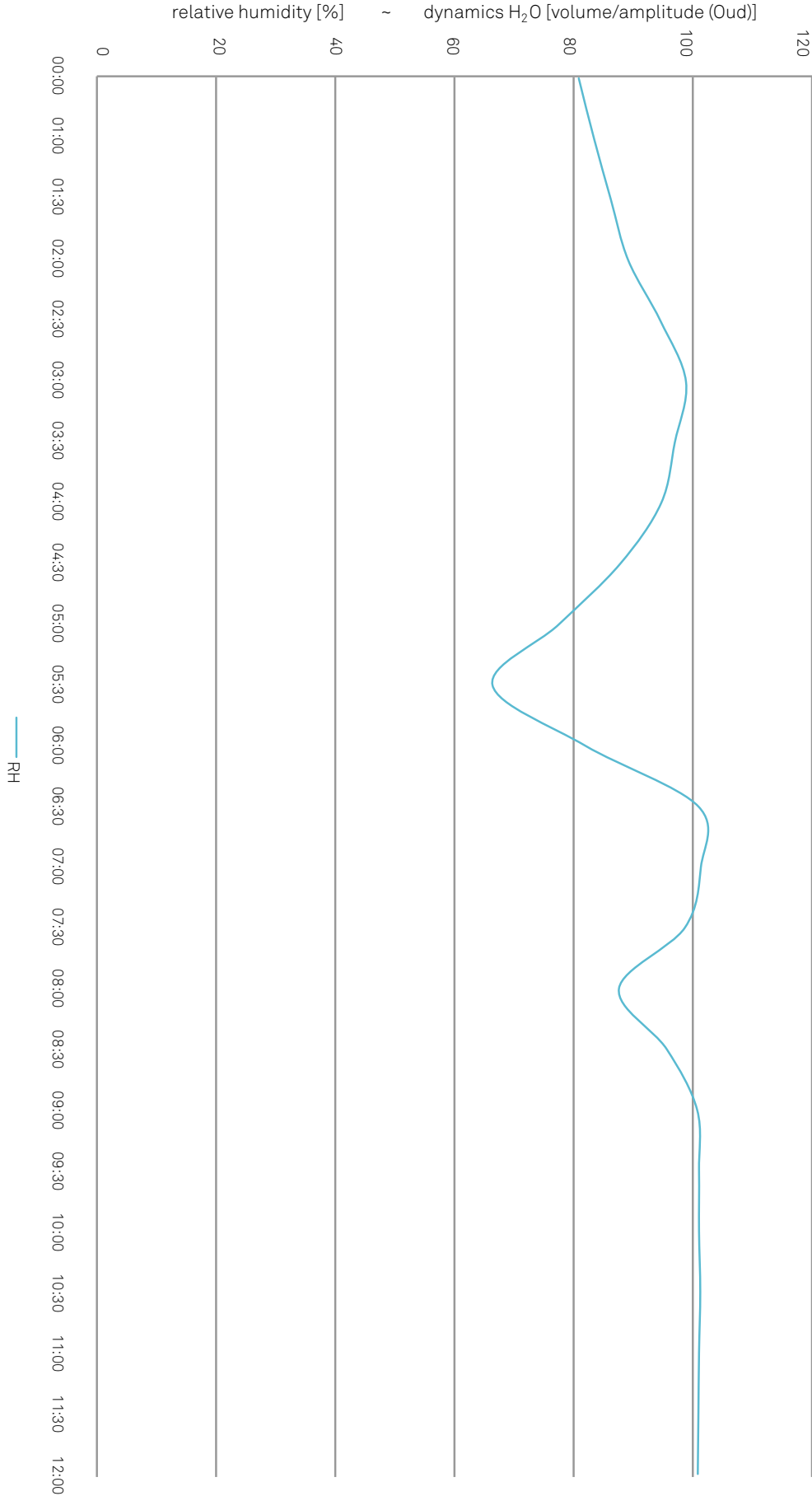
relative air humidity

summer



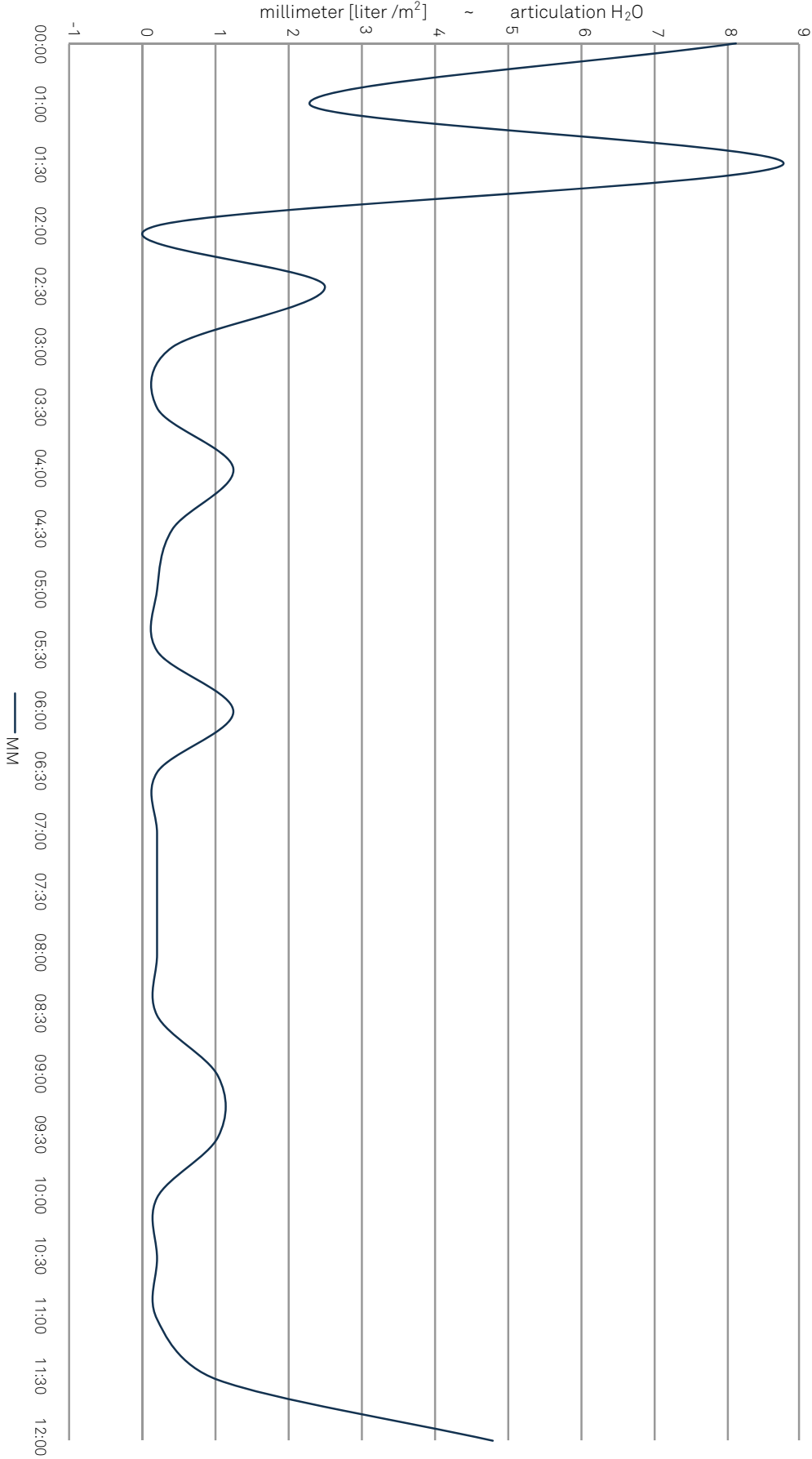
relative air humidity

winter

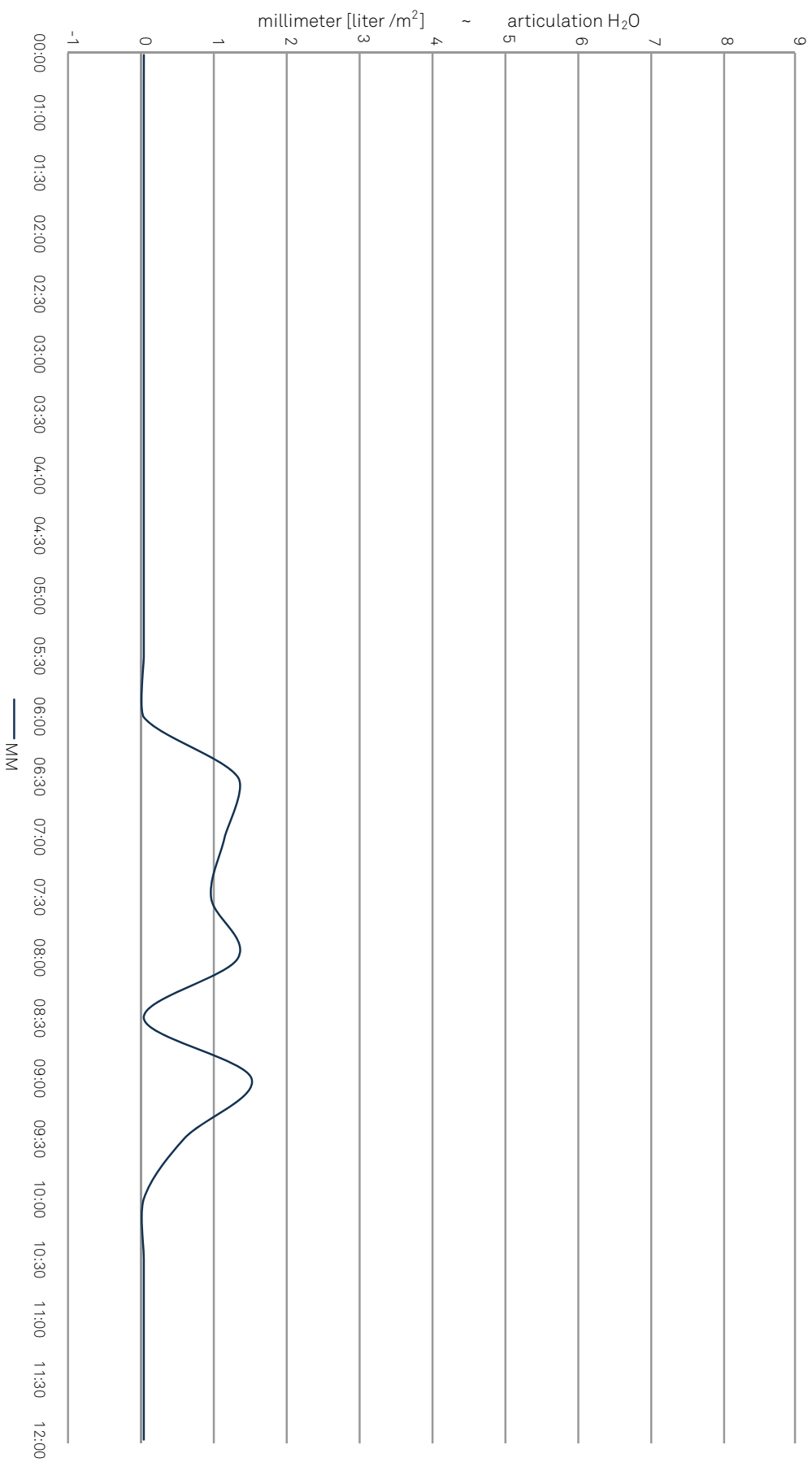


precipitation

autumn

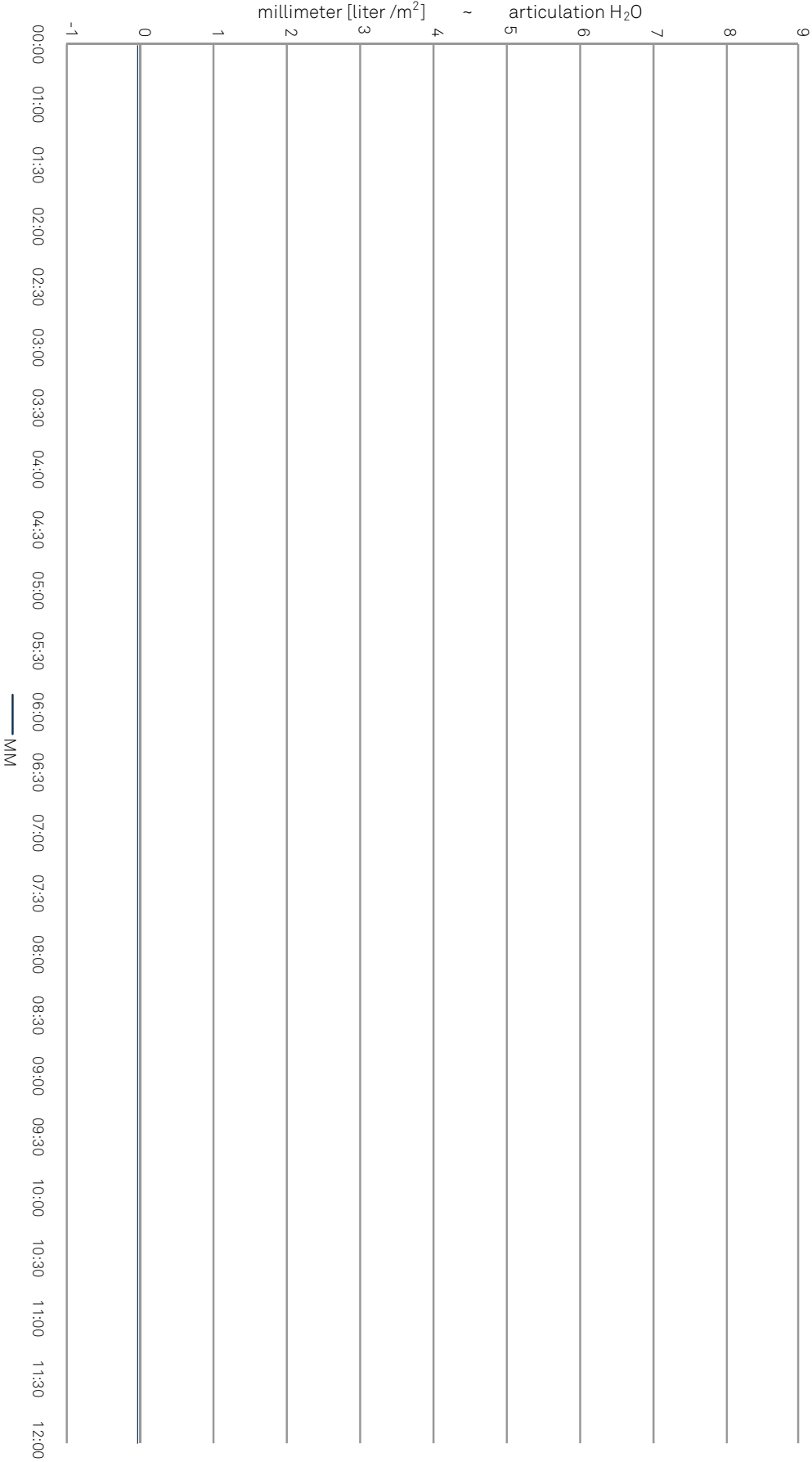


precipitation spring



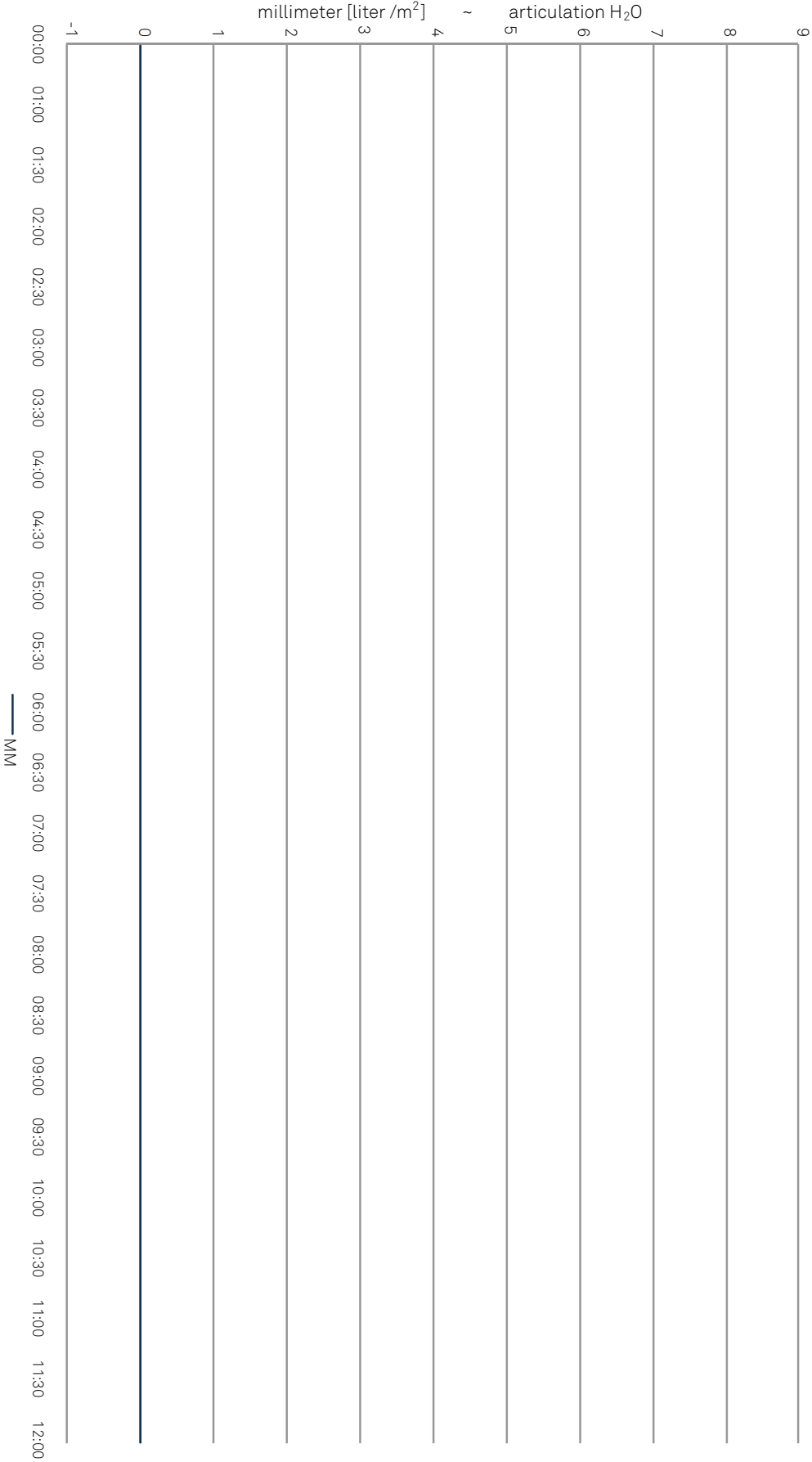
precipitation

summer



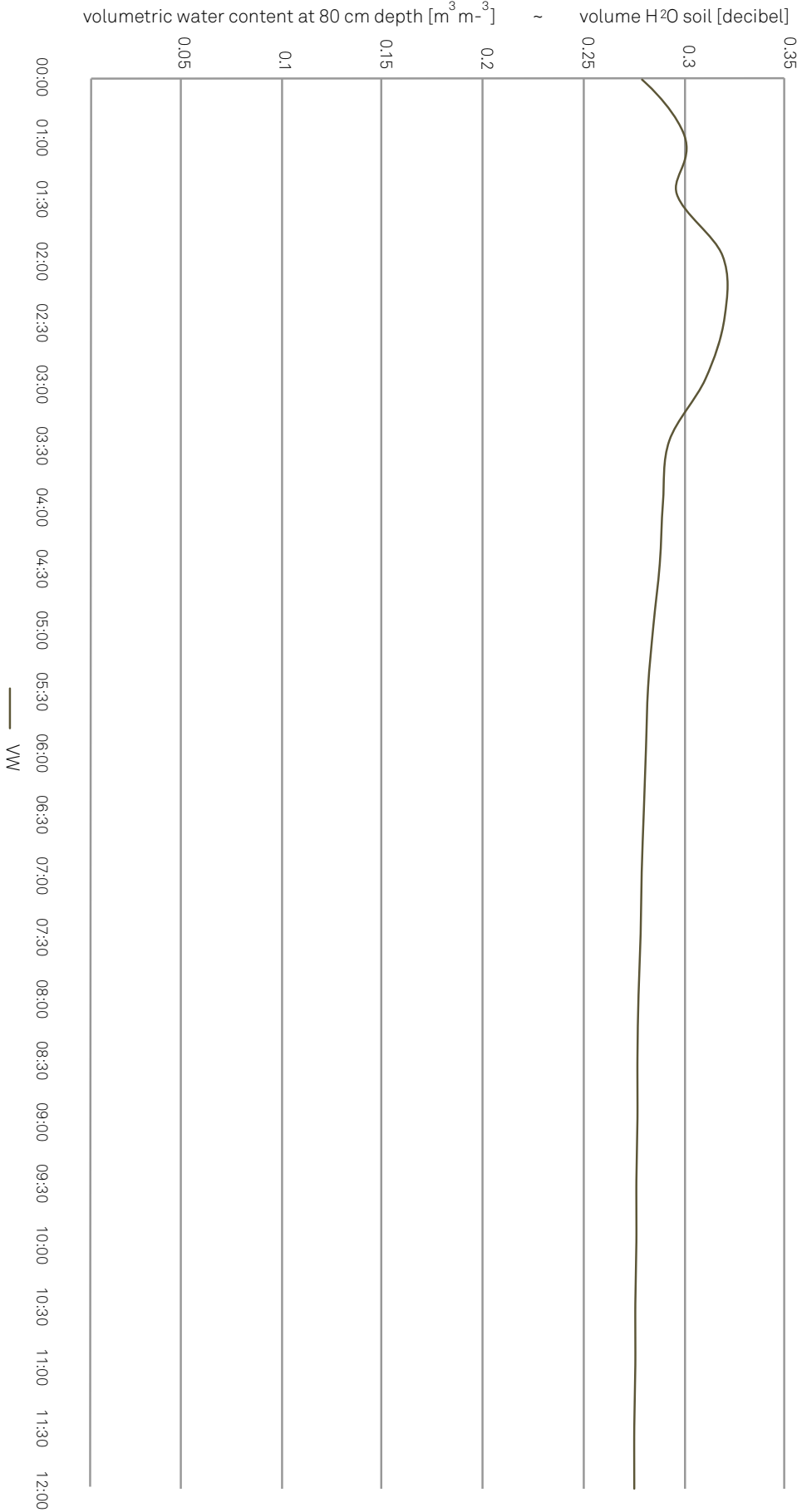
precipitation

winter

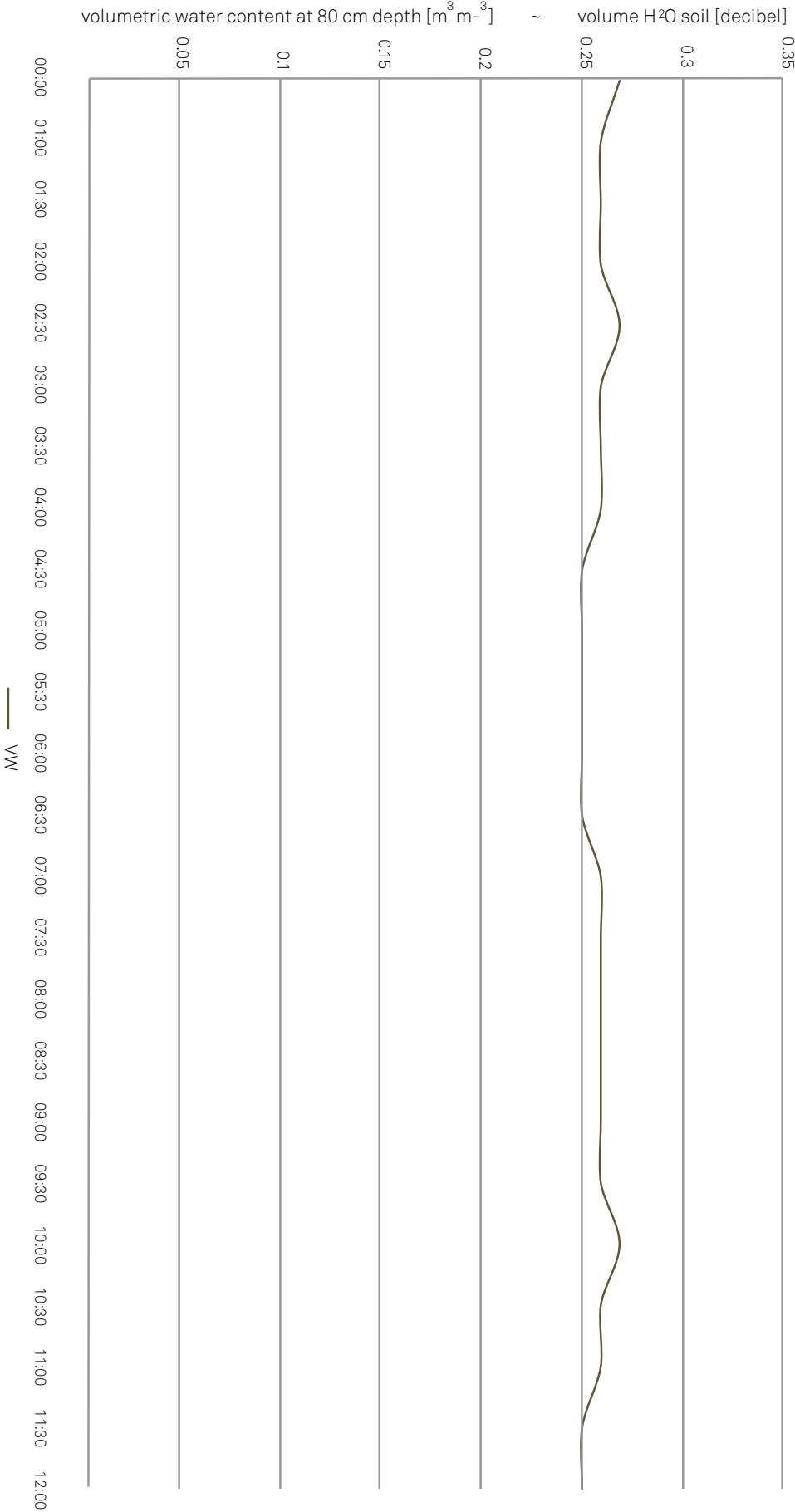


soil humidity

autumn

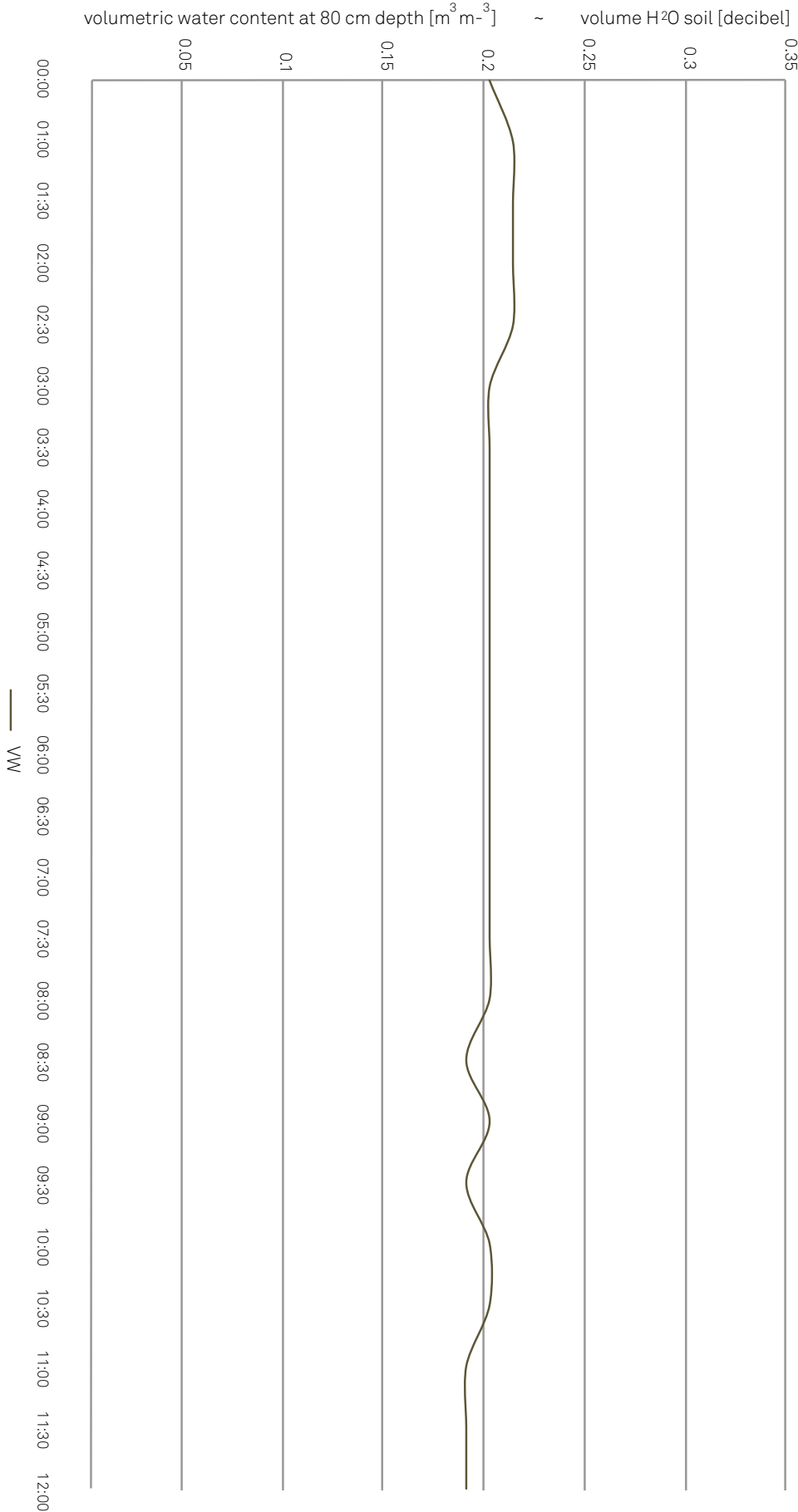


soil humidity spring



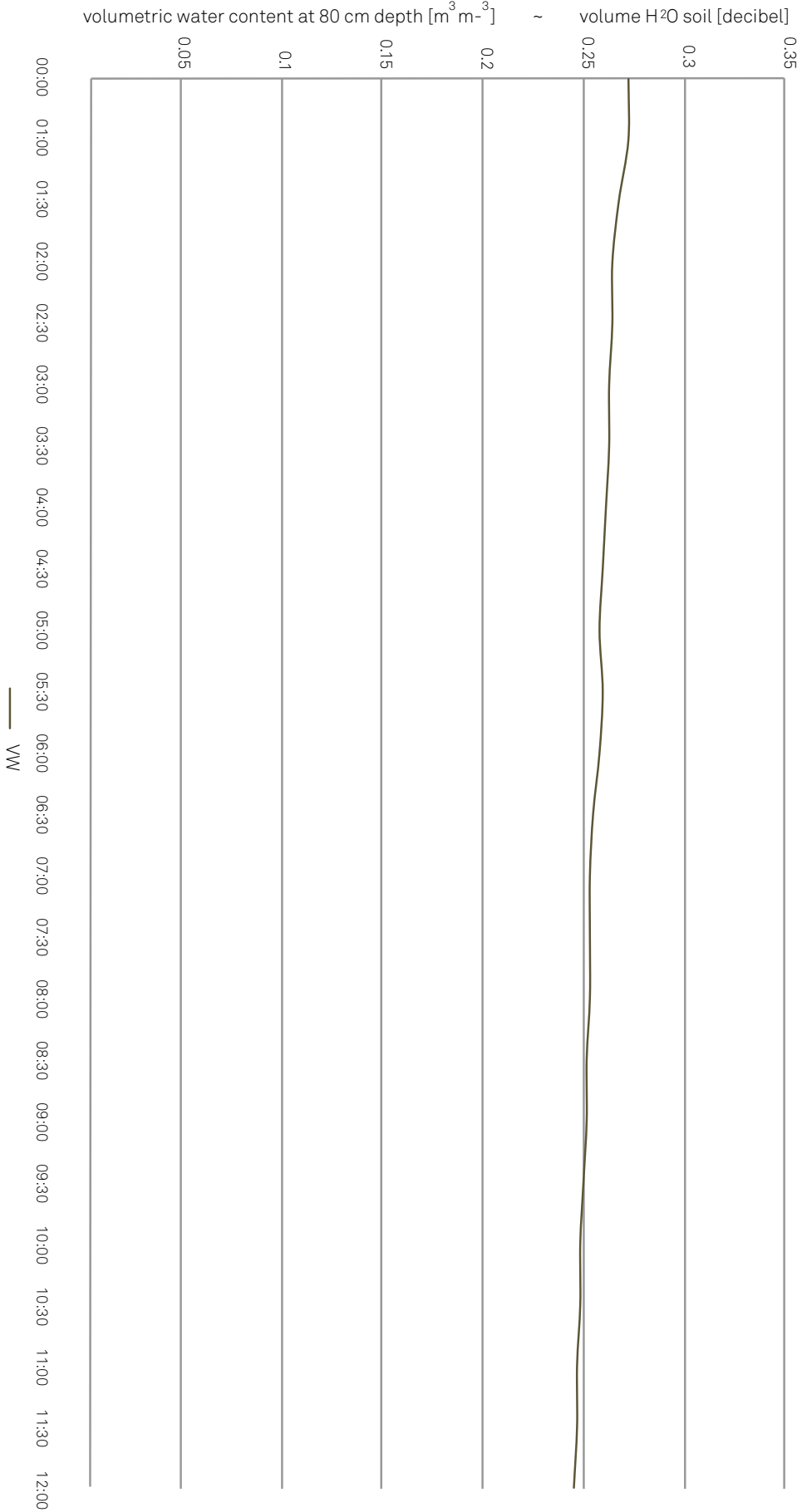
soil humidity

summer

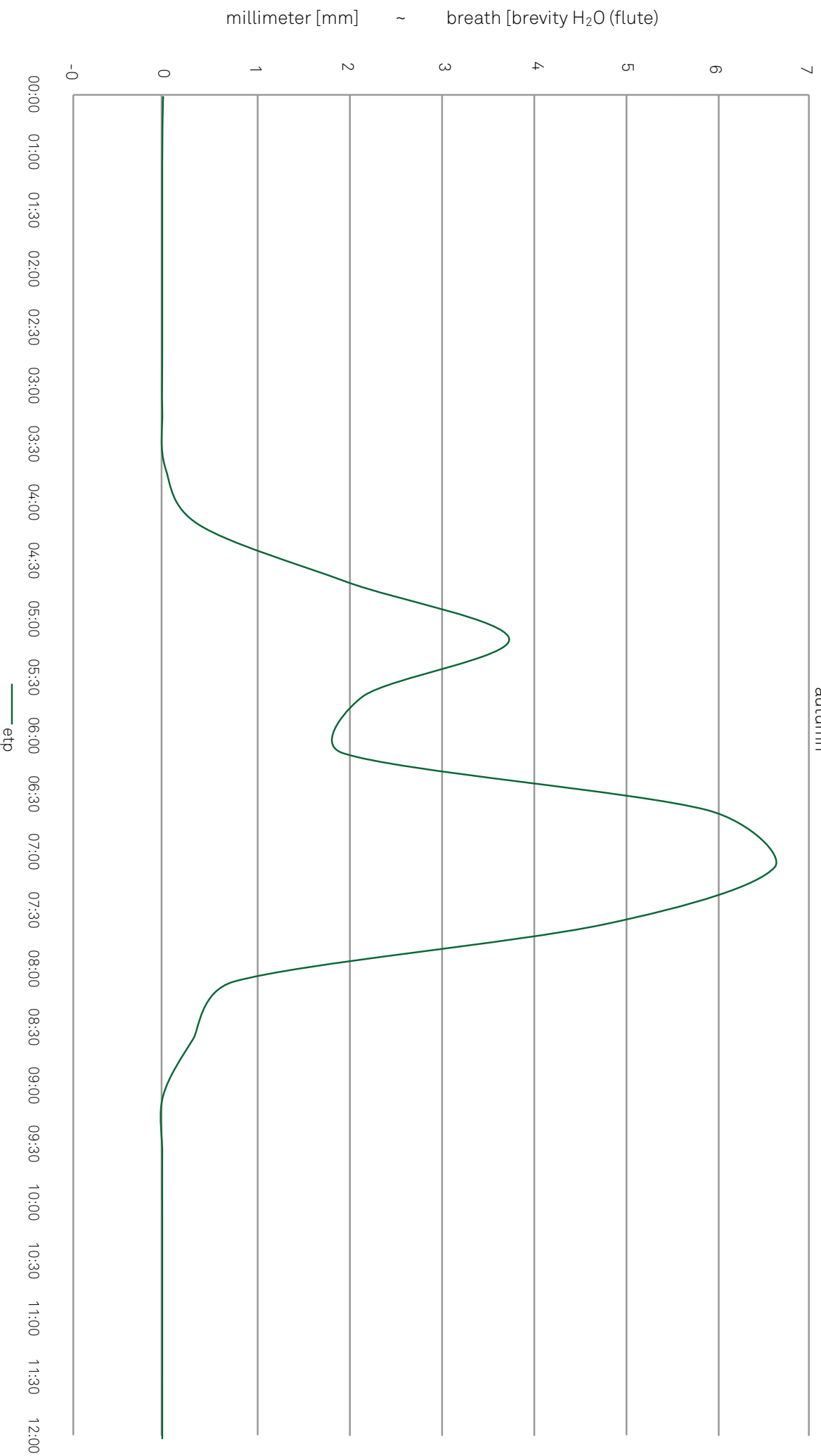


soil humidity

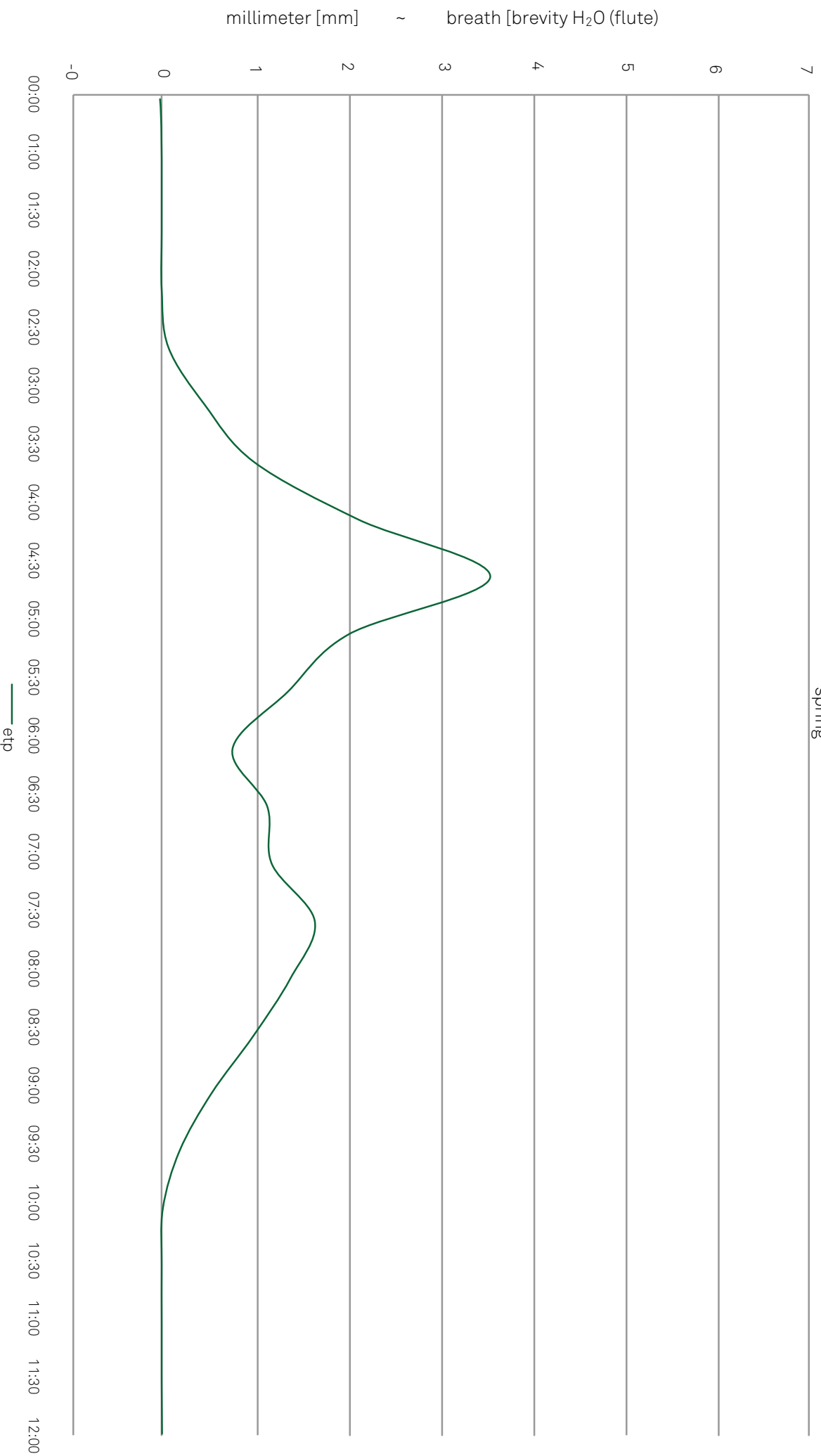
winter



evapo-transpiration autumn

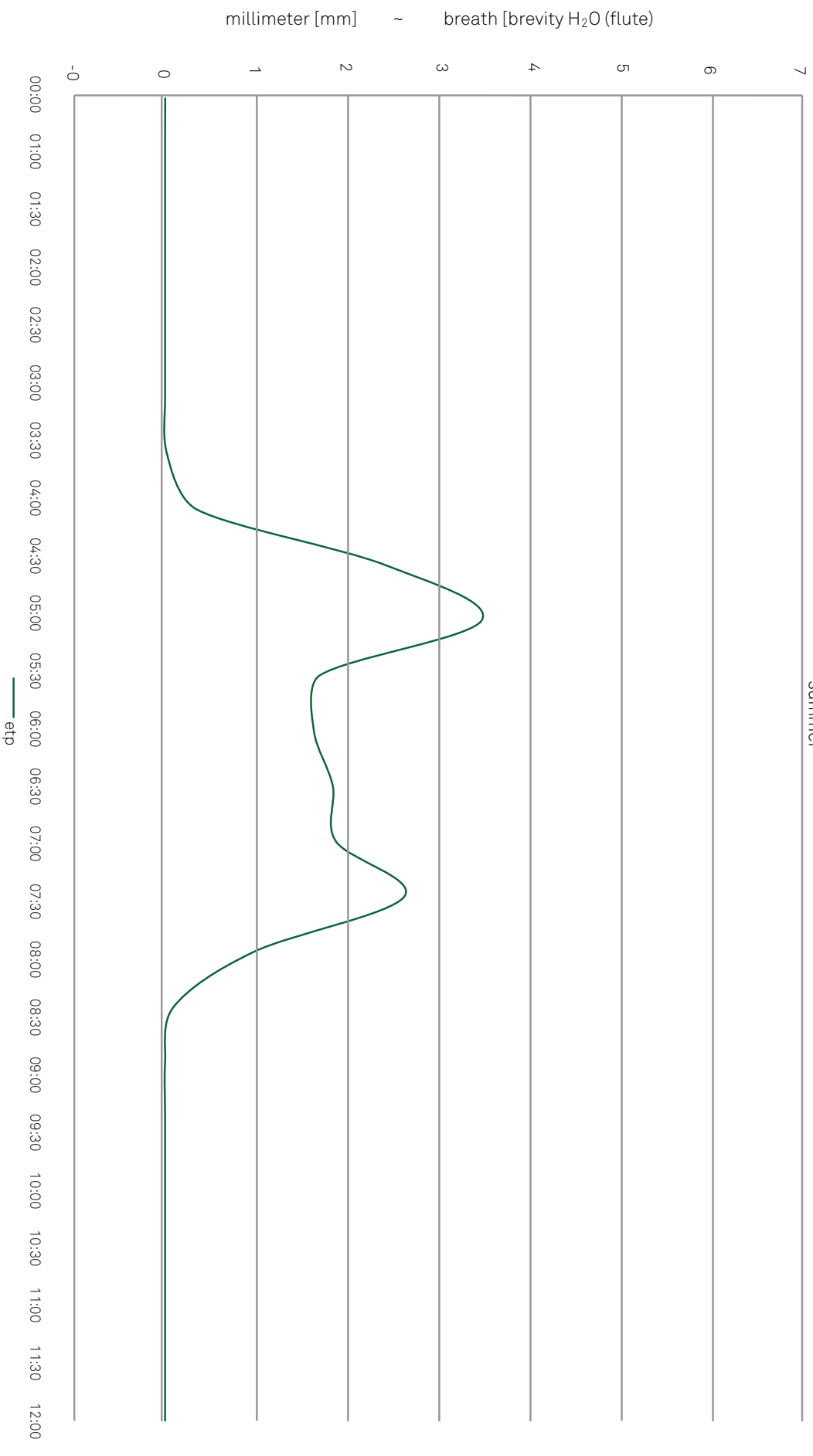


evapo-transpiration spring



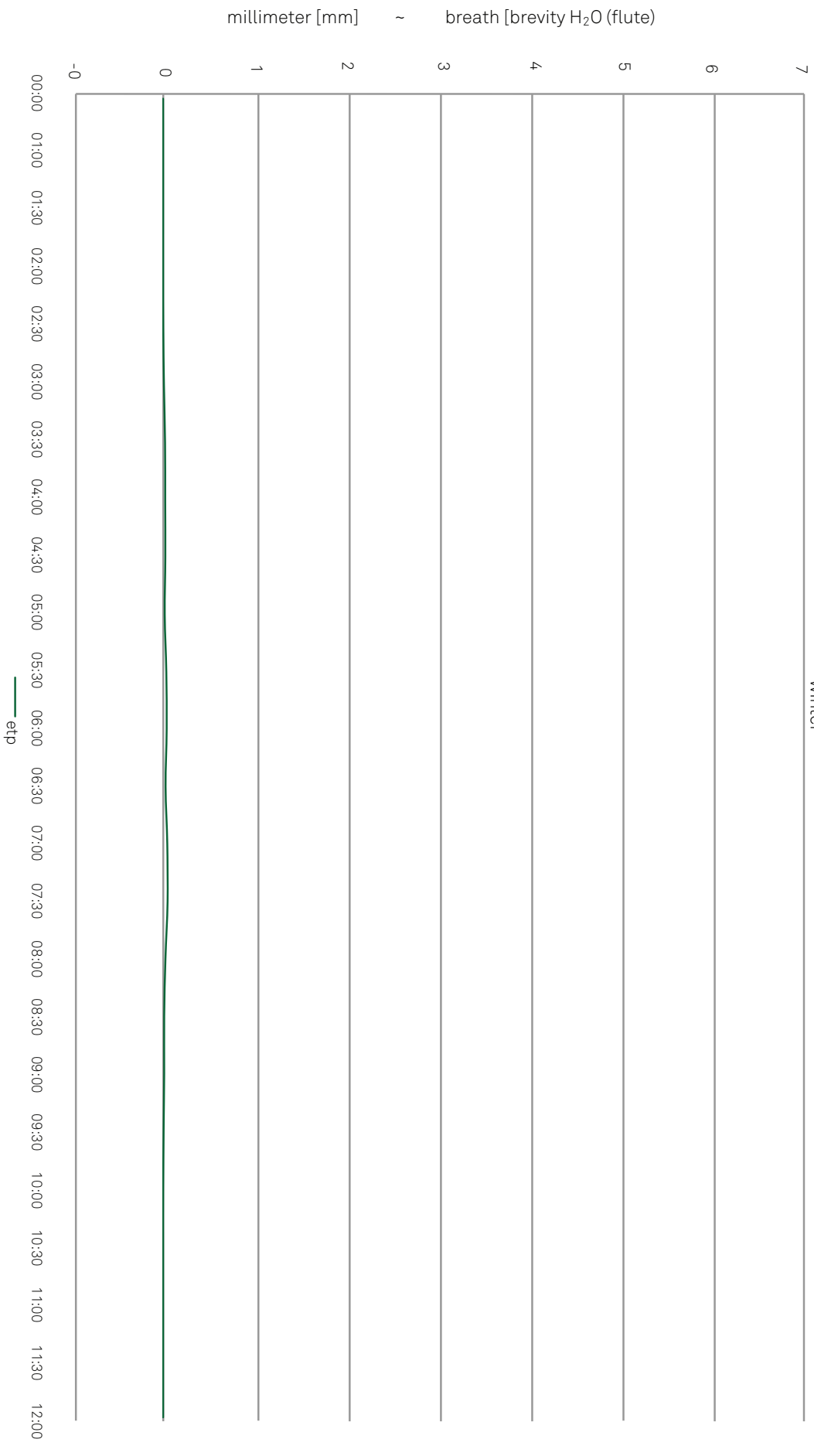
evapo-transpiration

summer

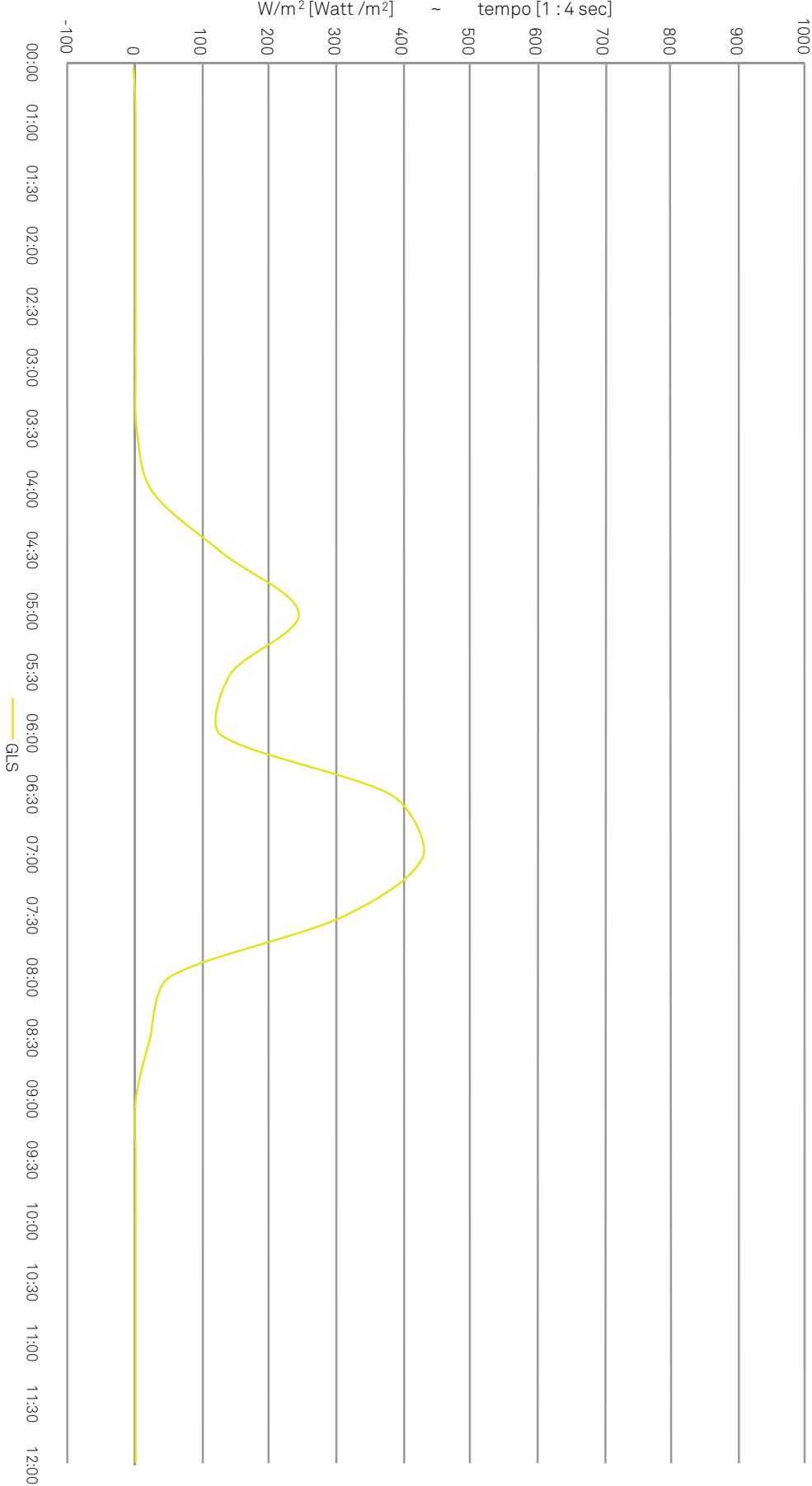


evapo-transpiration

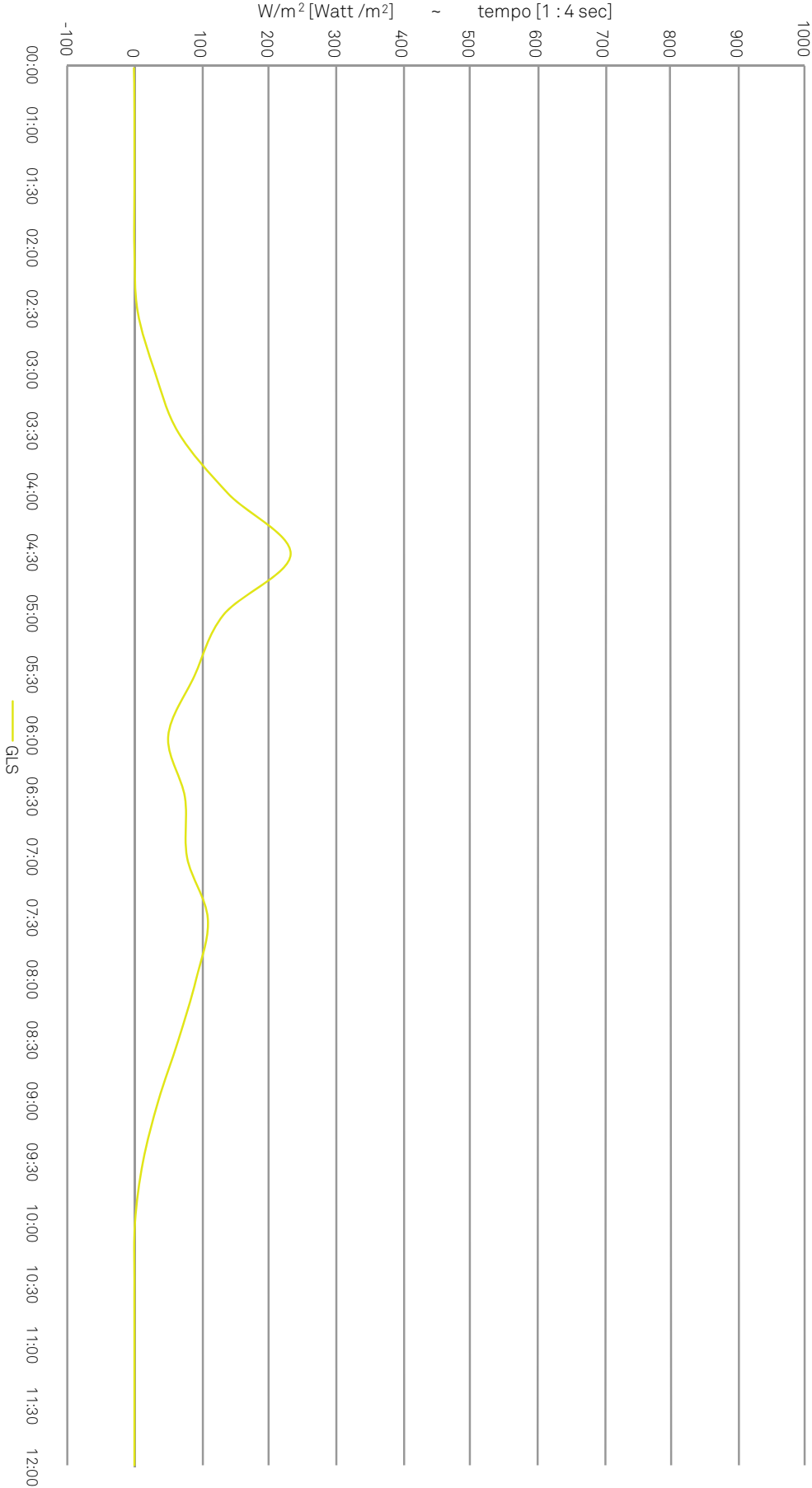
winter



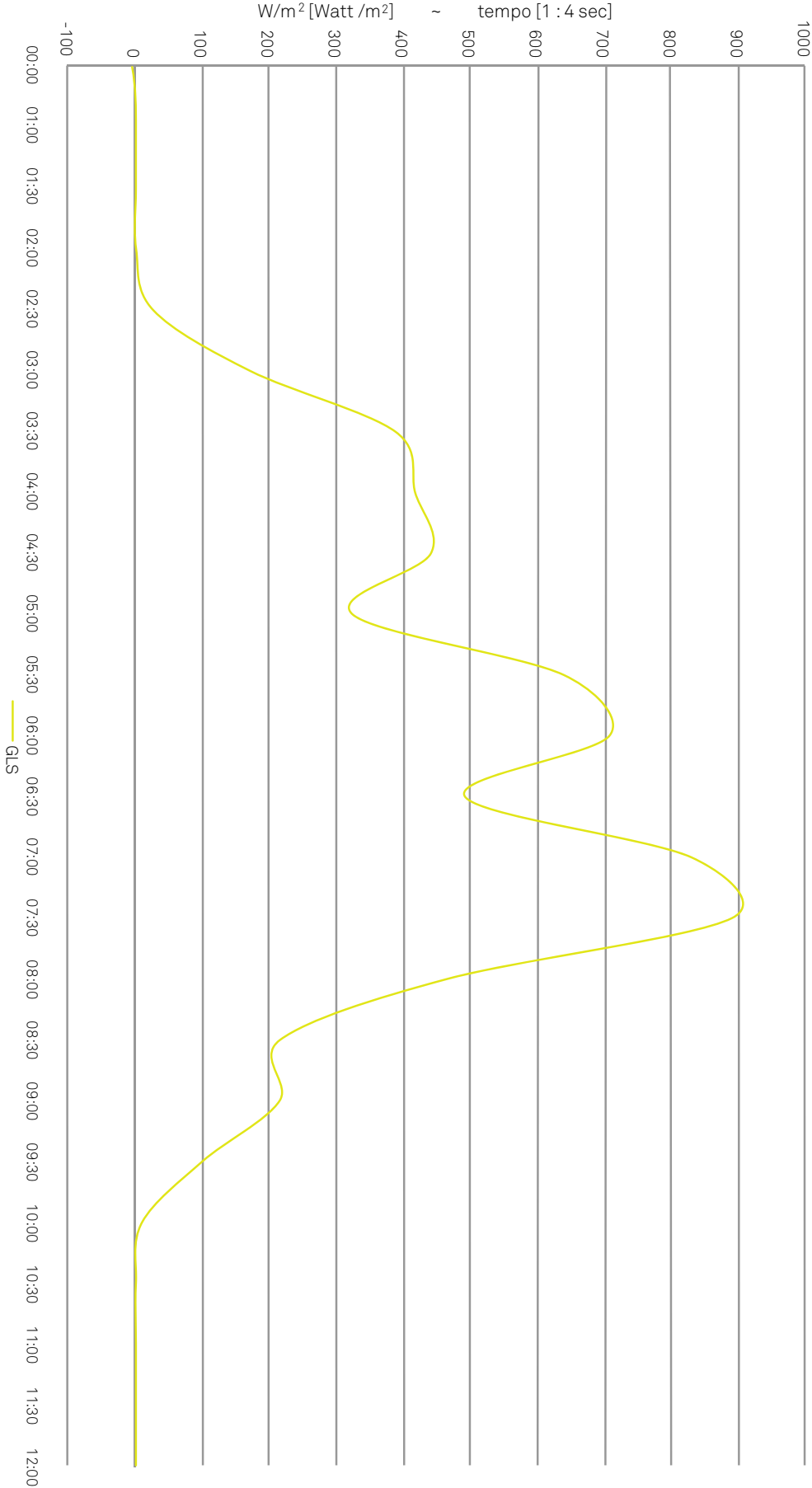
global solar radiation autumn



global solar radiation spring

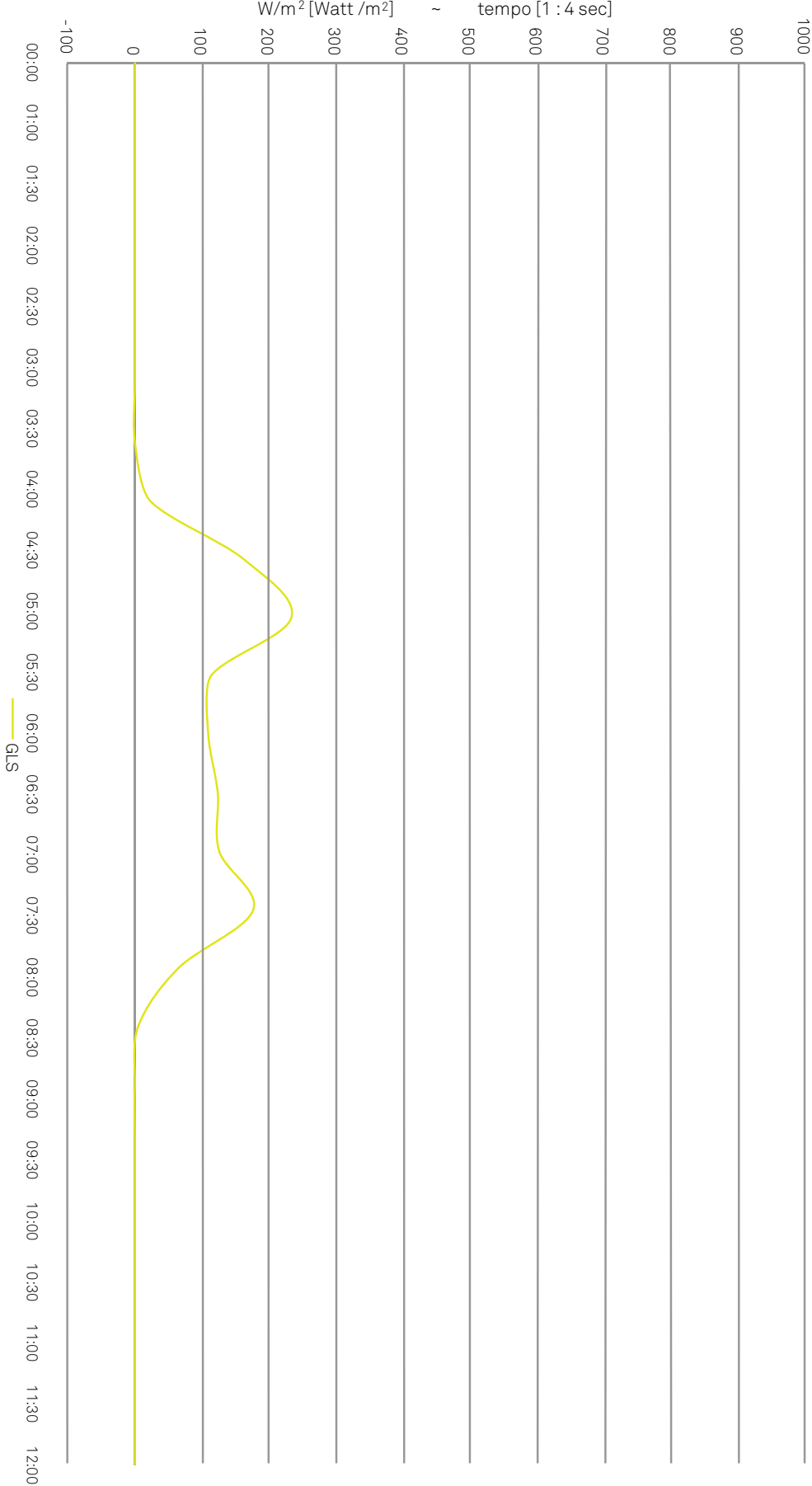


global solar radiation summer

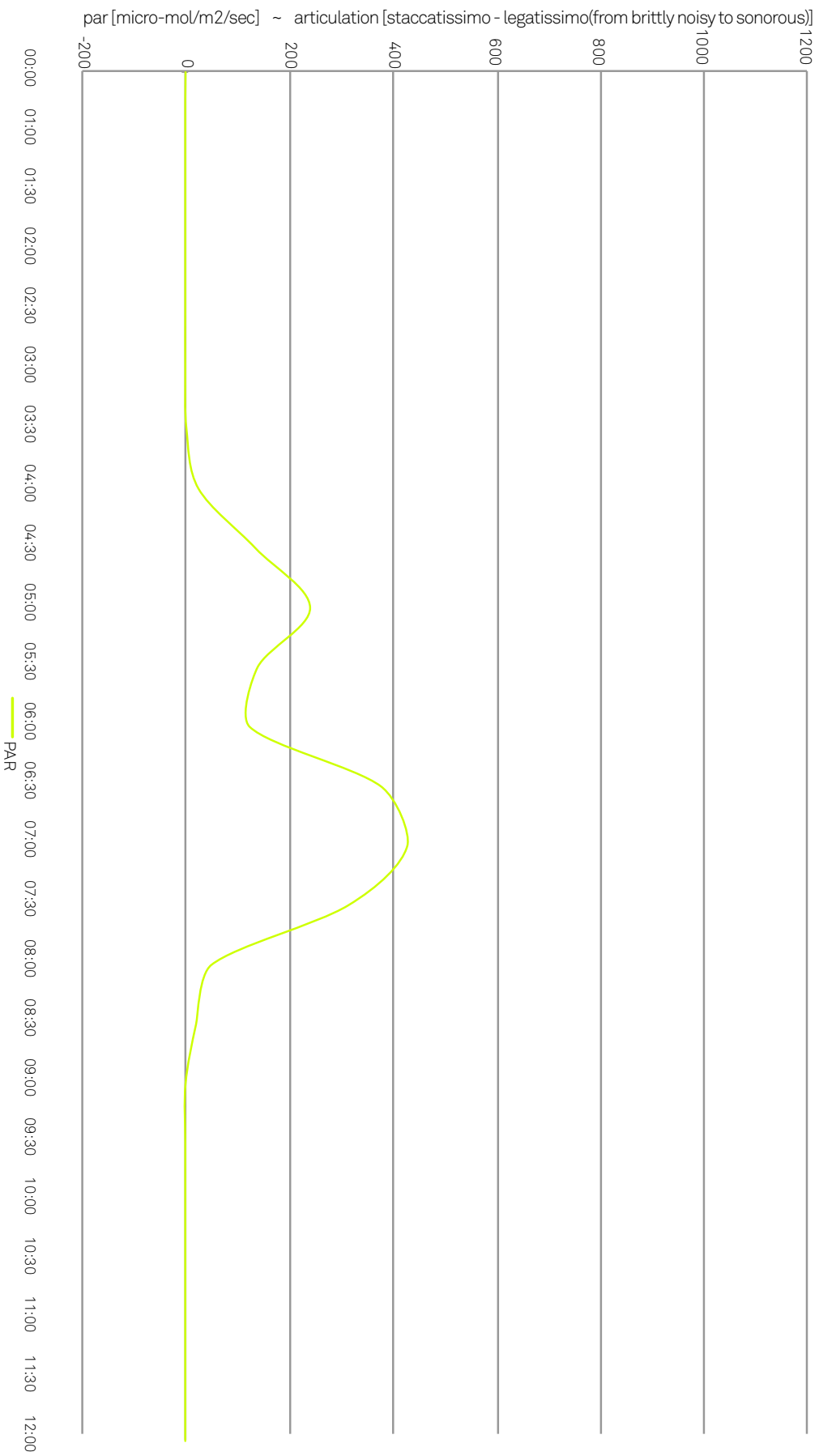


global solar radiation

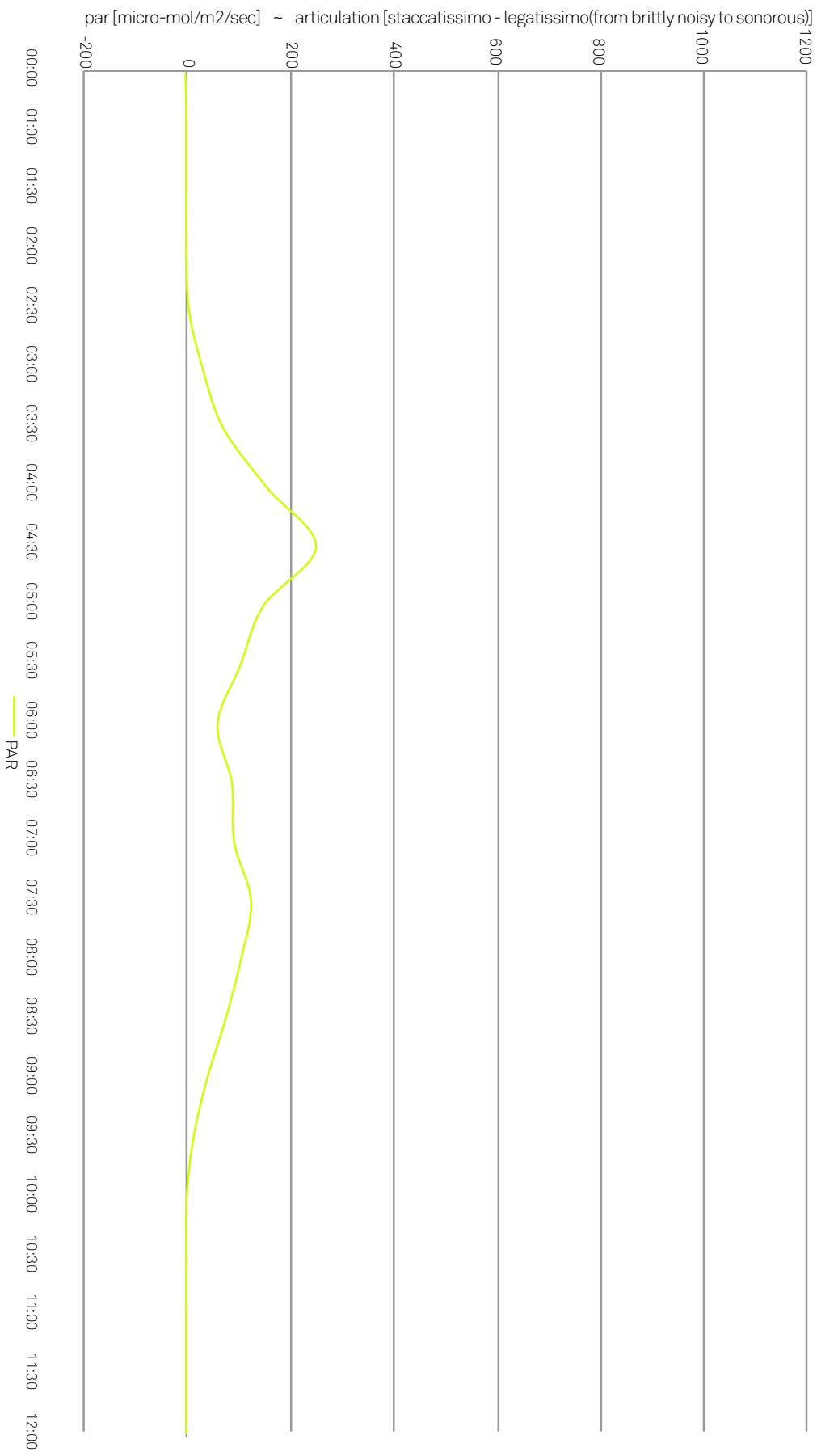
winter



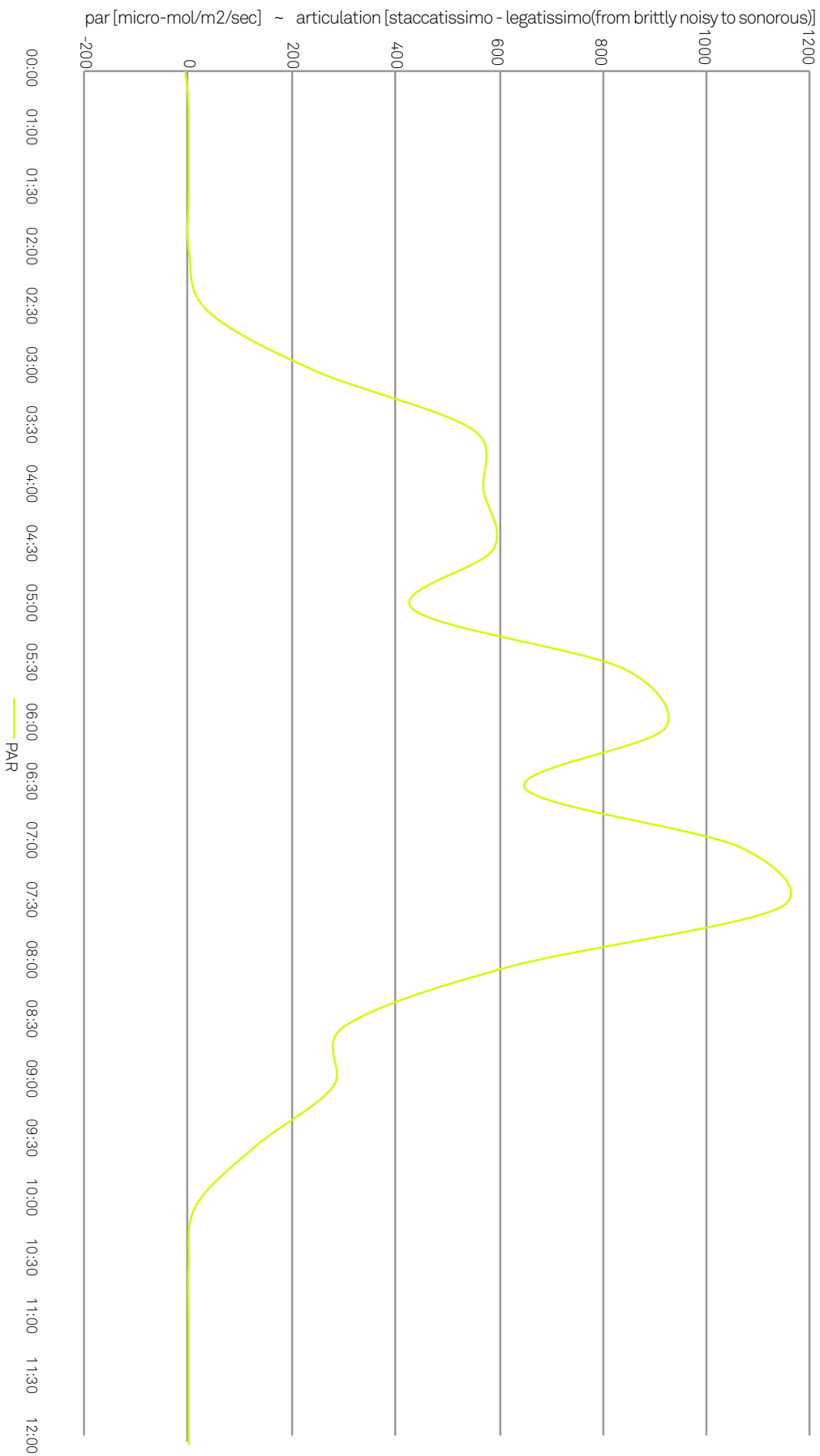
photosynthetic active radiation autumn



photosynthetic active radiation spring



photosynthetic active radiation summer



photosynthetic active radiation

winter

