

Rhythms and rituals - XI

Online course
with Jean-Michel Florin
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<https://www.sektion-landwirtschaft.org/en/training/deepen-biodynamics/deepening-courses>

Breathing of the Earth



GA 229 TAFEL 4

DÖRNACH, 7. OKTOBER 1923

Elements and ethers

Life ether

Chemical ether

Light ether

Warmth ether

Warmth

Air

Water

Earth

Undernature





The cohesion in the landscape

Camille Pissarro

























Rhythm is the language of life

How can we support renewal



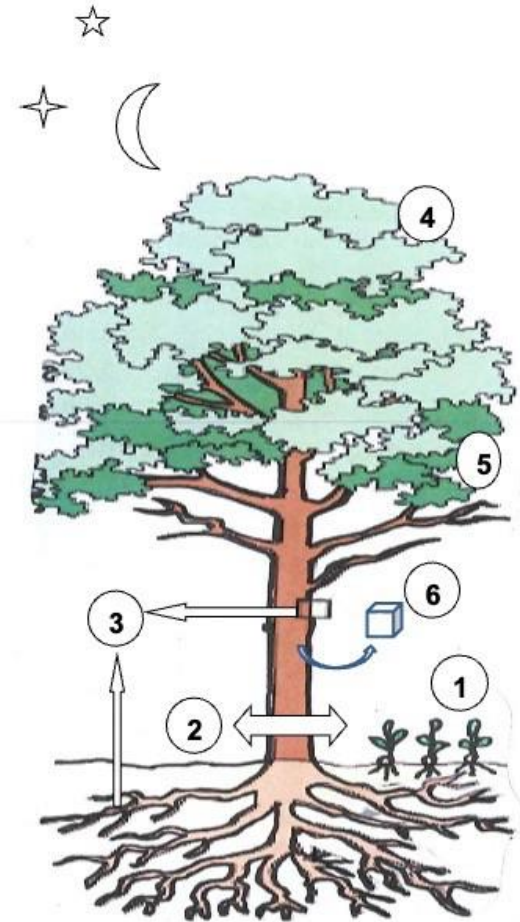






Research fields in chronobiology of trees

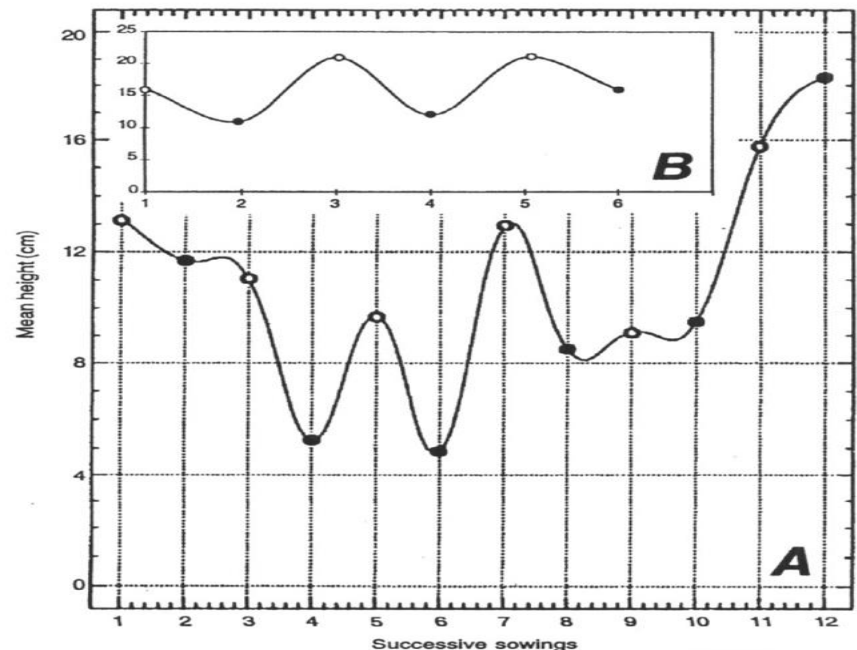
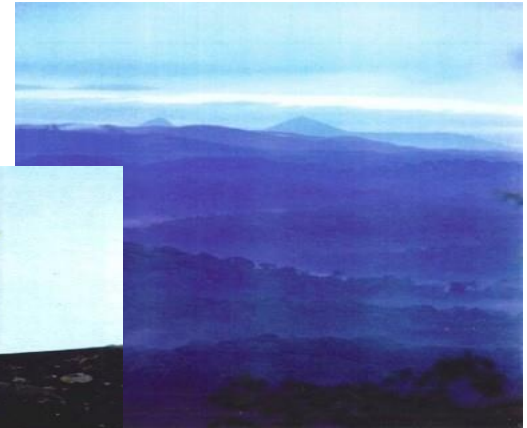
1. Germination and initial growth
2. Stem diameter fluctuations
3. Bio-electric potential variations
4. Pulsation of buds
5. (The Golden Section in Space and Time)
6. Tree felling date and wood properties



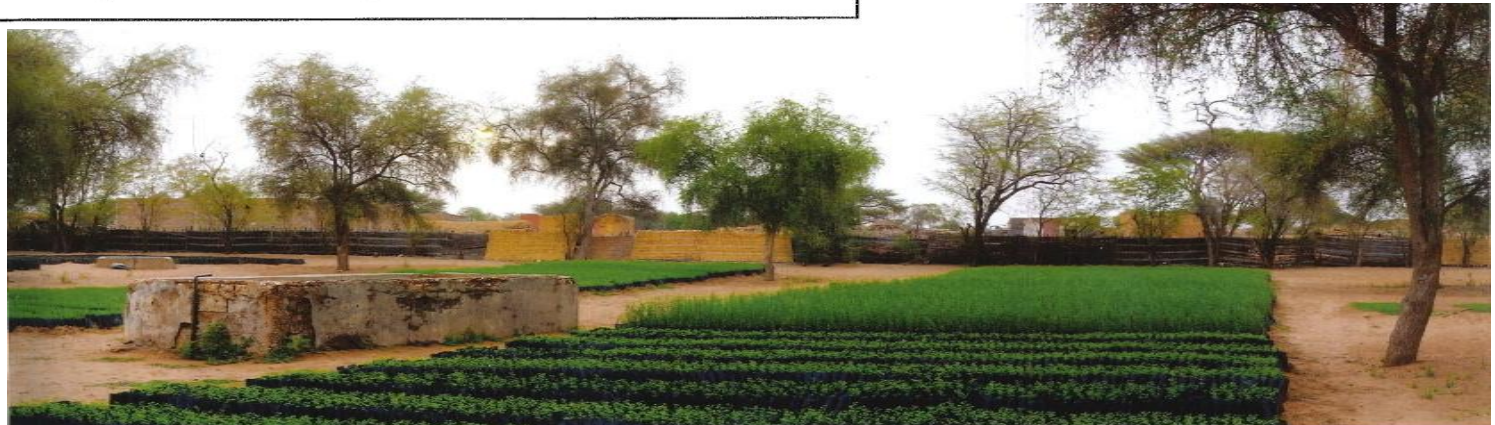
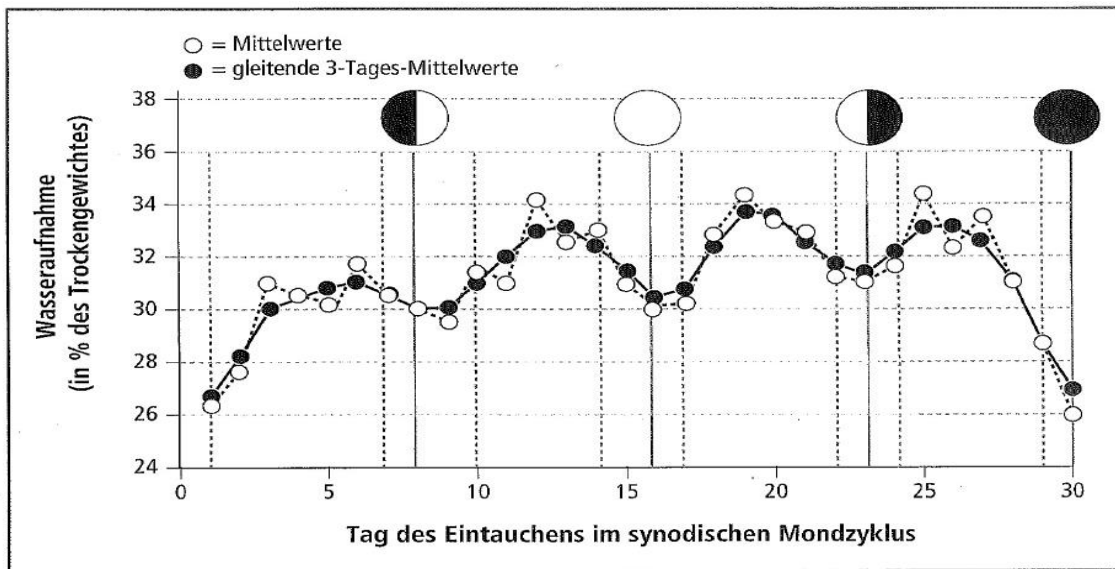
Germination, initial growth and moon rhythms

A tree nursery situated in the tropics, in Rwanda, offered interesting conditions for experiments on the germination and initial growth of woody species according to the moon influence, since temperatures and day-lengths were less variable than in higher latitudes. In addition, the dry seasons could be compensated by watering. The work occurred over 3 years: preliminary trial, main trial with 12 sowings of 4 repetitions of 50 seeds, then control and complementary trial. The sowings of the main trial were carried out 2 days before the full moon, alternating with sowings 2 days before the new moon, as suggested by Kolisko's work.

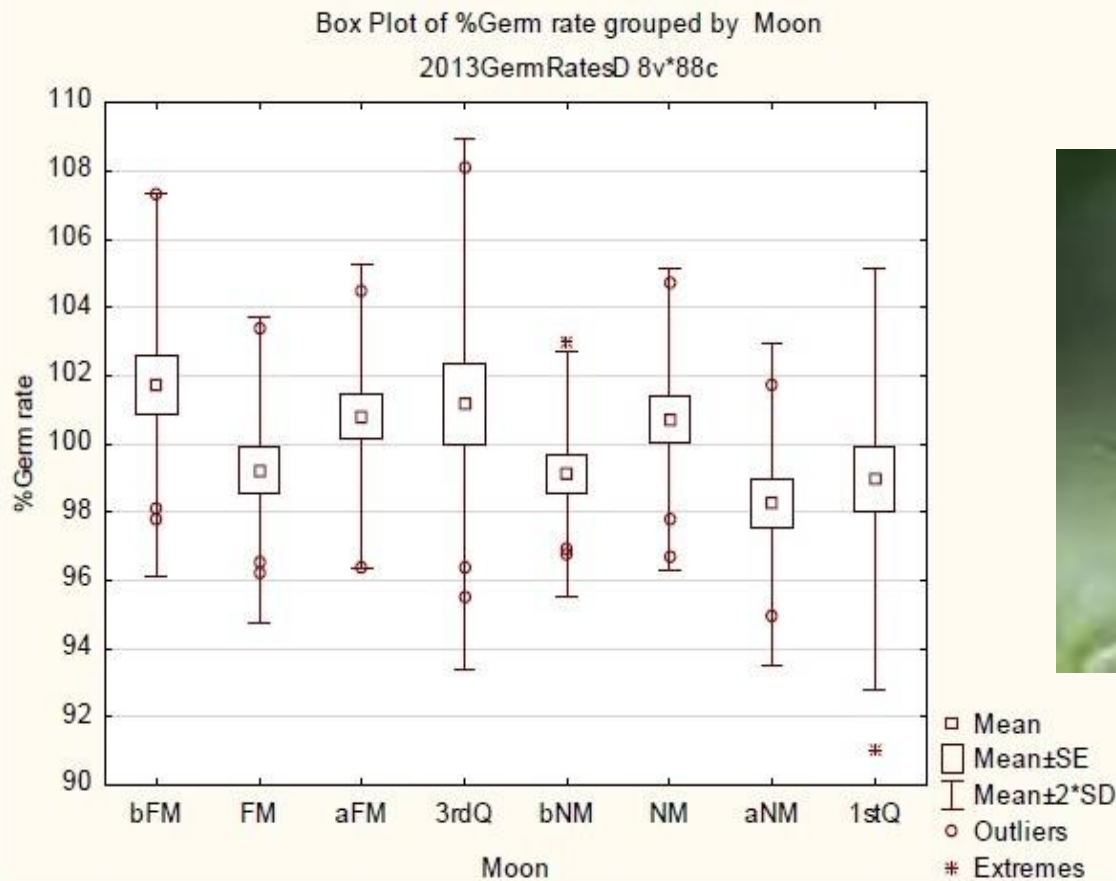
For African musizi (*Maesopsis eminii*, Rhamnaceae), a species found from Liberia to Kenya, the speed and rate of germination, as well as the mean and maximum values of growth in the first months, vary in a clearly rhythmic manner, with higher values for sowings just before the full moon (A: Zürcher 1992). Similar trials with dryland species confirmed the phenomenon (B: Bagnoud 1995).



Synodic moon rhythms in water absorption by seeds: periodicity of lunar weeks (7.4 d)



A germination test with Spruce in 1938 (with 80'000 seeds) re-analyzed: → Moon influence actually significant !



2. Boxplot of the germination rate in %, relatively to the global mean of the current month, differentiated in eight lunar phases at the day of sowing

Stem diameter fluctuations gravimetric tides (E.Zürcher, M.-G.Cantiani and F.Sorbetti-Guerri, D.Michel 1998) – with *Picea abies* etc.

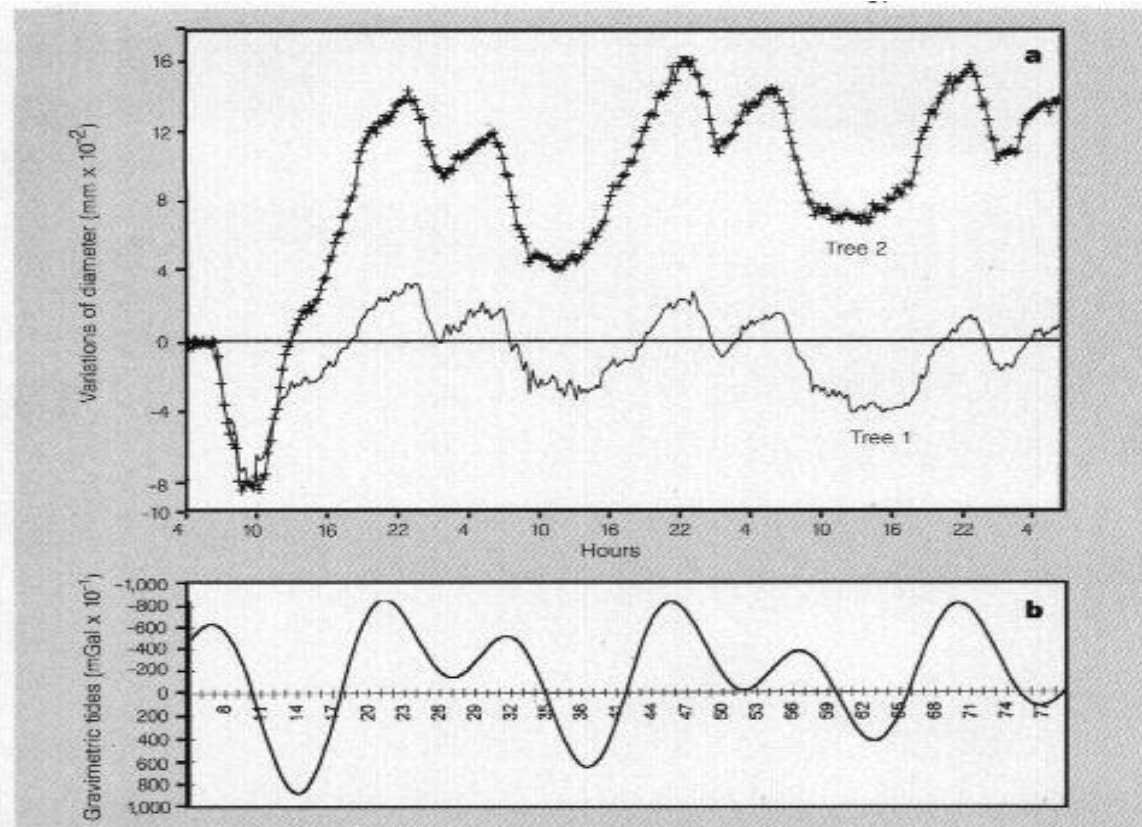
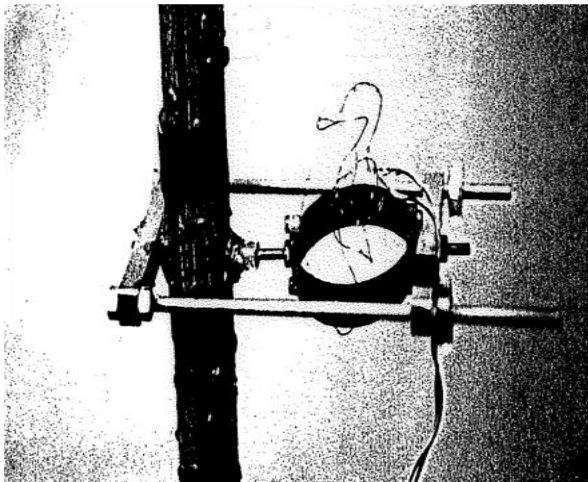
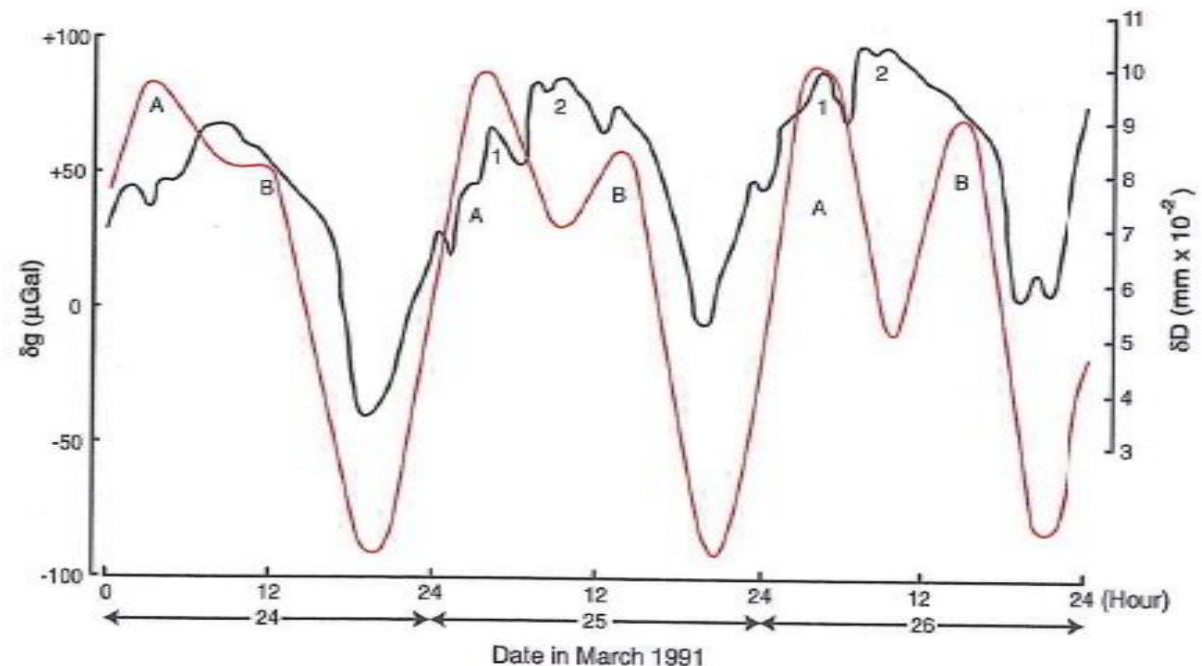


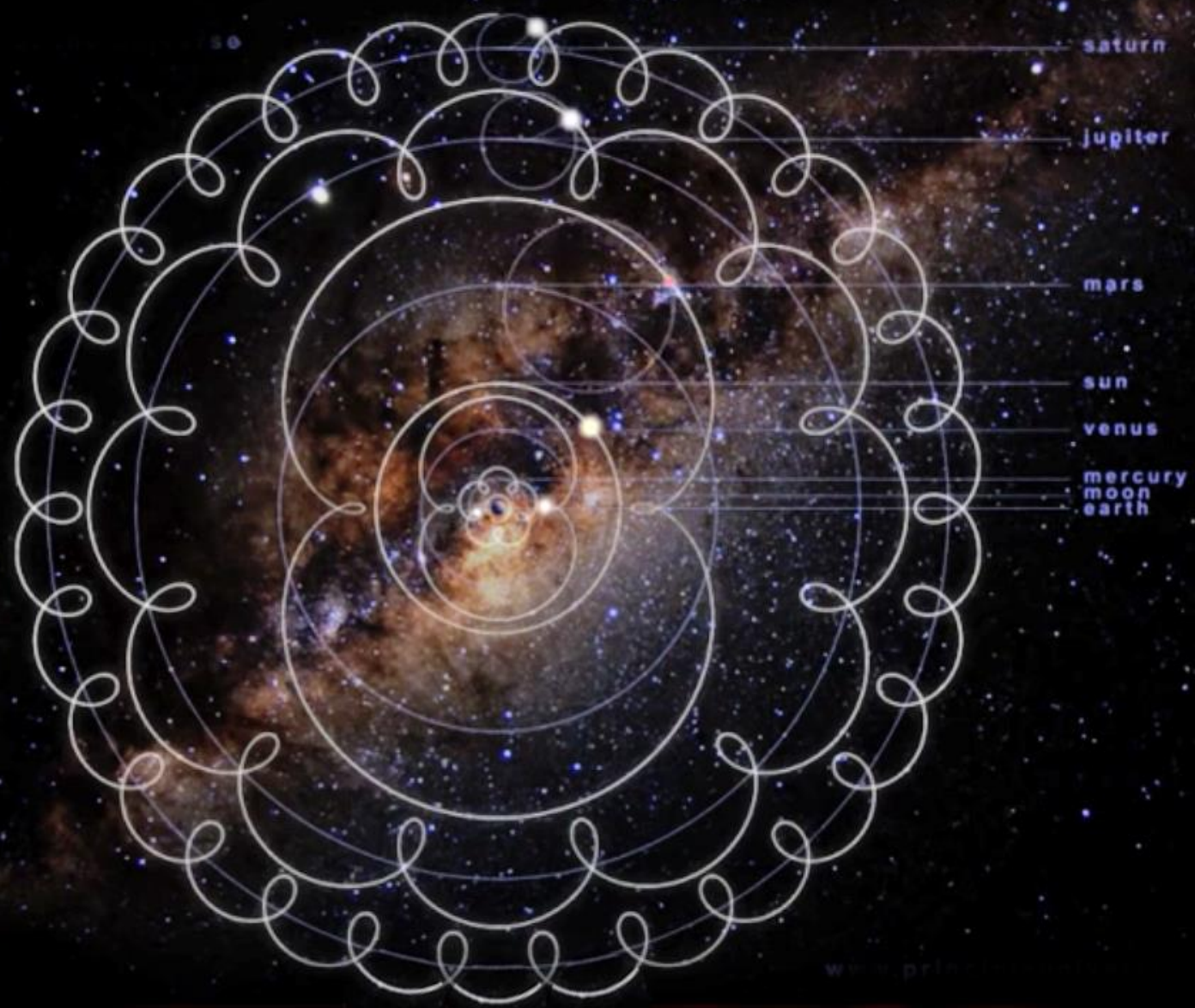
Figure 1 Reversible diameter variations in spruce and gravimetric tides. **a**, Two independent young spruce trees under conditions of constant darkness and controlled temperature show simultaneous reversible diameter variations, which are strongly correlated (synchronous) with **b**, the gravimetric curve calculated for the same place (Florence, Italy) and period (17–20 July 1988).

Confirmation: P.W. Barlow, M. Mikulecky et J. Strestik, Protoplasma 2010

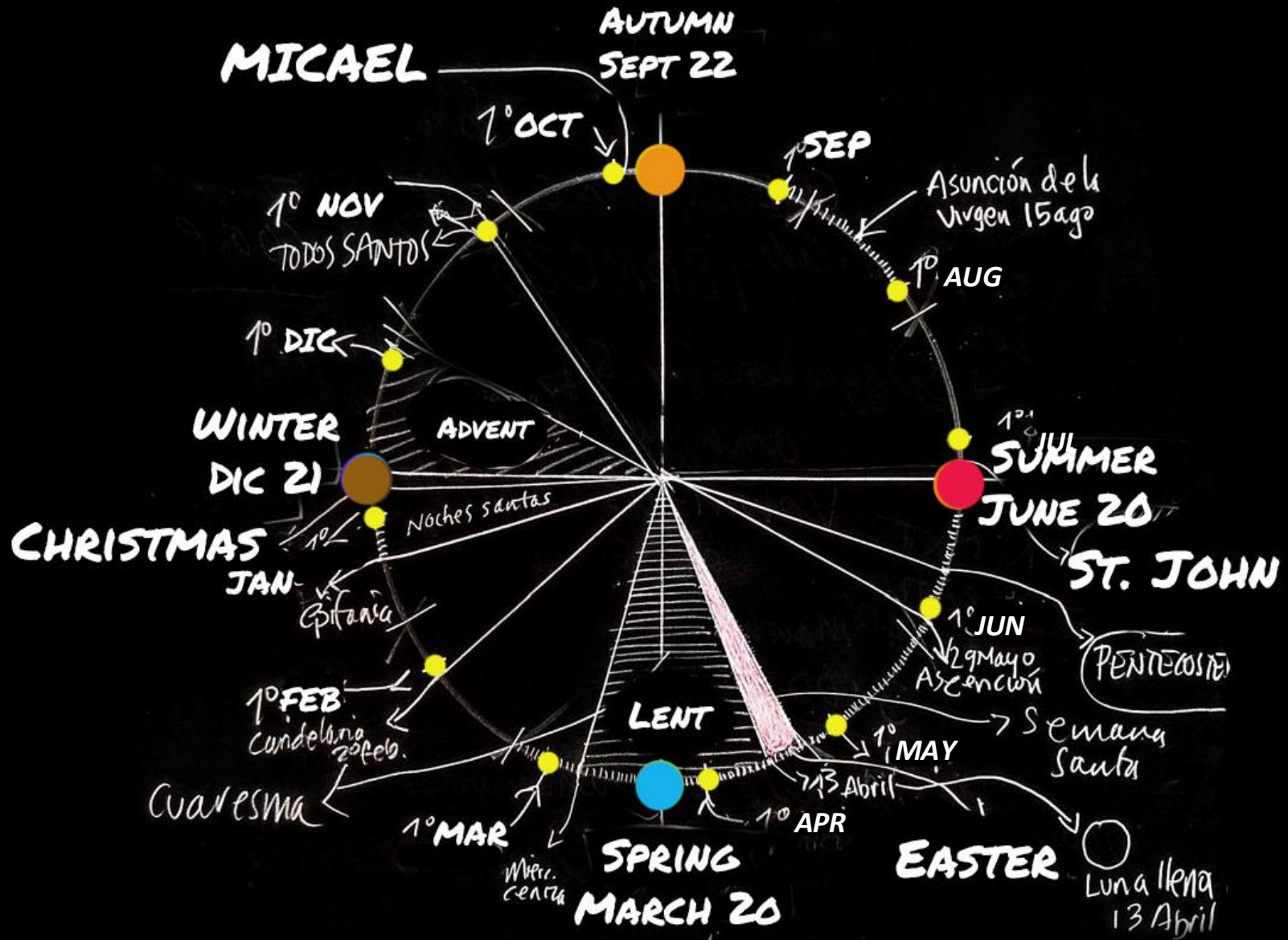
Fig. 9 Time series of δD (black line) recorded from a stem of *Juglans regia* during March 1991 and the contemporaneous variations of δg (red line)

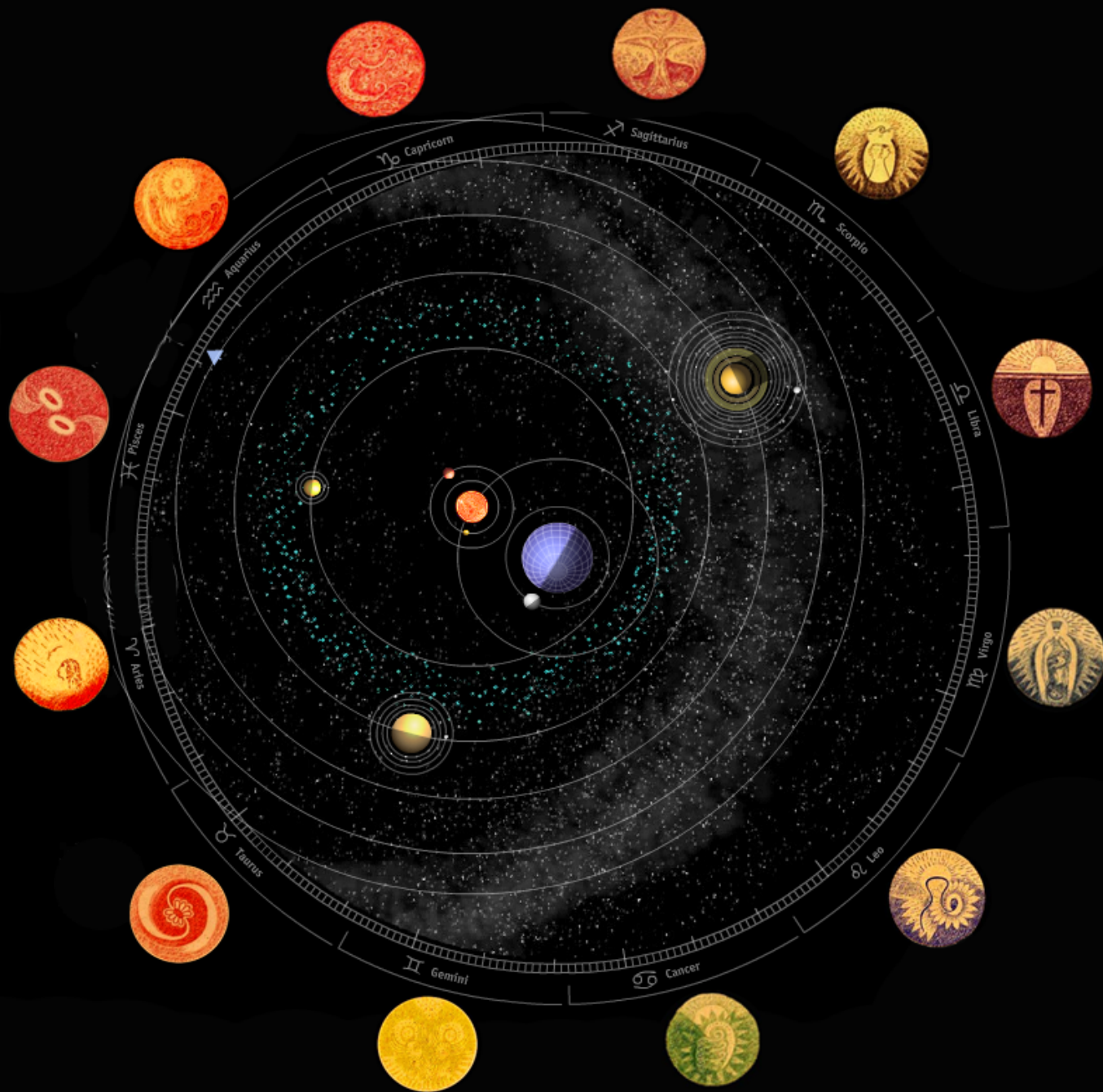






Festive year cycle 2025





Yearly Rhythm

Biodynamic agriculture practices

- BD Calendar
- Spray applications 500, 501
- Compost Preparations

Personal Practices

- Personal and community rhythms
- Calendar of the soul
- New ritual



L'Angélus, Jean-François Millet. 1857-9.

Thank you!

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Sources ER

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Sources JMF

Camille Pissarro
Vincent Van Gogh
Claude Monet
Paul Cézanne

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