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# Tree Damage from Chronic High Frequency Exposure?

Mobile Telecommunications, Radar, Point-to-point transmission systems,  
Terrestrial Radio and TV etc.

## **Timeline Sequence: "The Cherry Tree Hut"**

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[Dr.-Ing. Dipl.-Phys. Volker Schorpp](#)

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# The Cherry Tree Hut

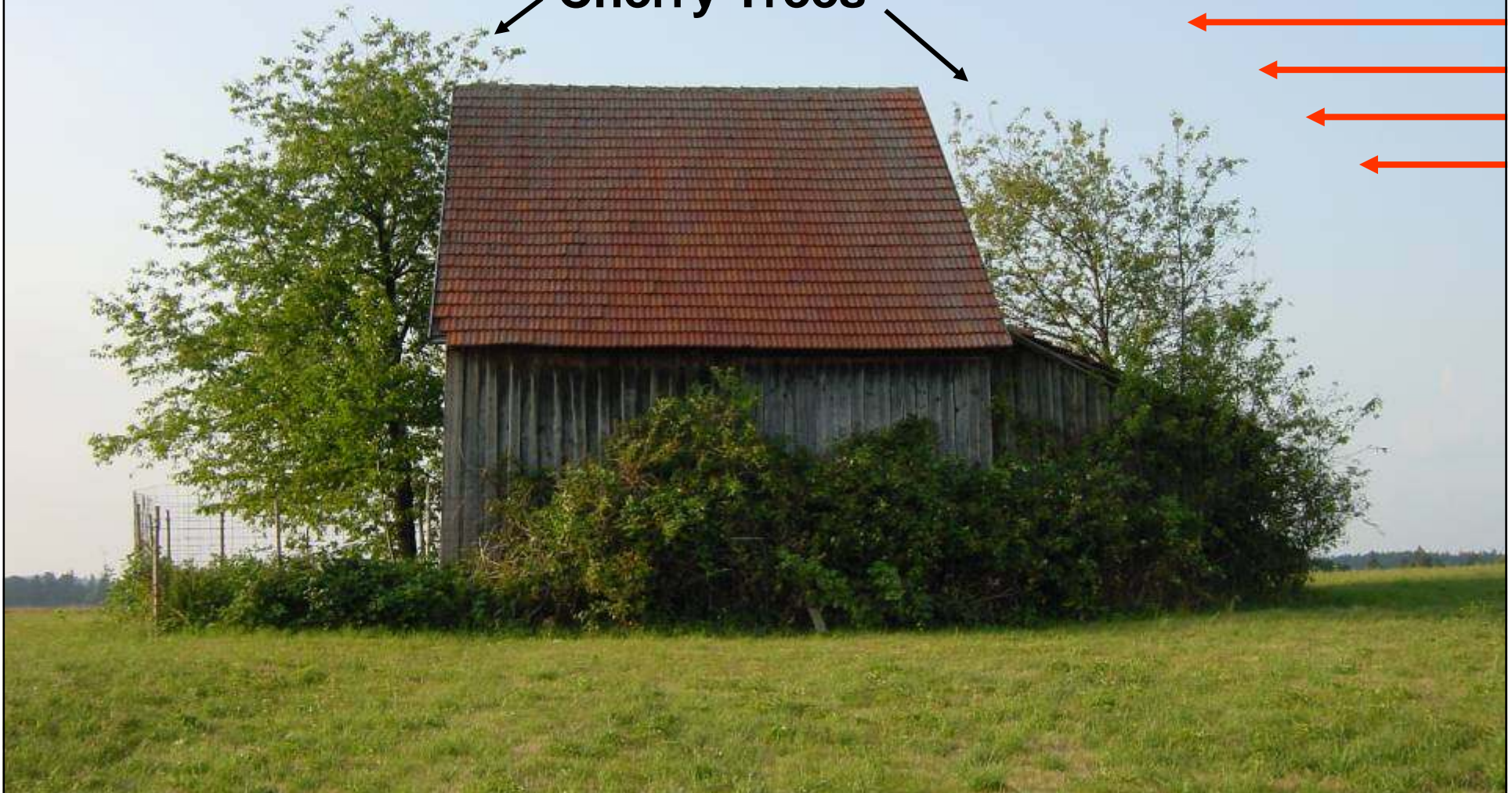
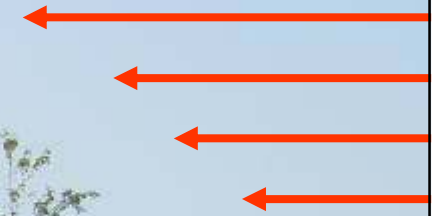
29.07.2006

← West

East →

Cherry Trees

HF



23.09.2006

## Plausible Explanation:

The right hand tree (transmitter facing) and the barn offer a degree of protection to the tree on the left. Hence, its damage is progressing more slowly.



18.10.2006

The worst damage on the left hand tree occurs on the parts that are not protected against the HF radiation. The radiation is diffracted around the hut and also partially penetrates the hut.



Another month later



31.10.2006

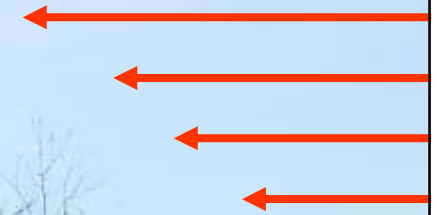
**HF**



**End of October - no leaves**

10.11.2006

**HF**



**Beginning of November**

# From a different angle

HF- Transmitter



31.10.2006

HF- Transmitter



10.11.2006

HF- Transmitter



## Explanation model for the timeline sequence "The Cherry Tree Hut"

The hut is in an exposed position on the top of a softly sloping hill. Next to both gable sides are cherry trees. The HF radiation from transmitters on a distant water tower enters the picture from the right (east). The two young trees on the eastern side exhibit a lack of leaves in July – and this not only in the tree tops but throughout their entire structure which corresponds to their HF exposure pattern. As early as September, these trees are completely bare.

The left cherry tree (which is on the weather side) is somewhat protected from the radiation by the hut and the trees on the right hand side and shows a slower and spatially different damage pattern.

The branches of its tree top are taller than the hut and suffer comparable exposure to the trees on the right. These unprotected branches exhibit the fastest damage pattern within the whole tree. Already in July, they lack leaves. The radiation is diffracted around the hut and also partially penetrates the hut. Accordingly, the branches of the left hand tree exhibit a faster damage pattern near the edge of the hut than the branches near the middle of the hut. The area which is most protected from HF radiation carries a small number of drying leaves for the longest time. A healthy, undamaged cherry tree in this geographical region and climate would normally exhibit yellowing leaves around the middle of November, evenly distributed across its entire structure, and then shed the leaves within a few days. Any damage due to exposure to wind or weather would be more likely to occur – if at all – on the left hand tree (western side).

# **Tree Damage from Chronic High Frequency Exposure**

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# The End

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