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presents

Tree Damage from Chronic High Frequency Exposure?

Mobile Telecommunications, Radar, Point-to-point Transmission Systems,
Terrestrial Radio and TV etc.

Timeline Sequence: "The Three Lime Trees"

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The Three Lime Trees

**Could you think of any better way
for the trees to point to the cause
for their disease?**

Translation from German by Andrea Klein, London

08.09.2006

Exposed lime tree



HF-transmitter



(mobile phone and point-to-point transmission system)

Shielded lime tree



lime tree

27.09.2006

HF-transmitter



08.10.2006

HF-transmitter



20.10.2006

Exposed lime tree



HF-transmitter



Shielded lime tree



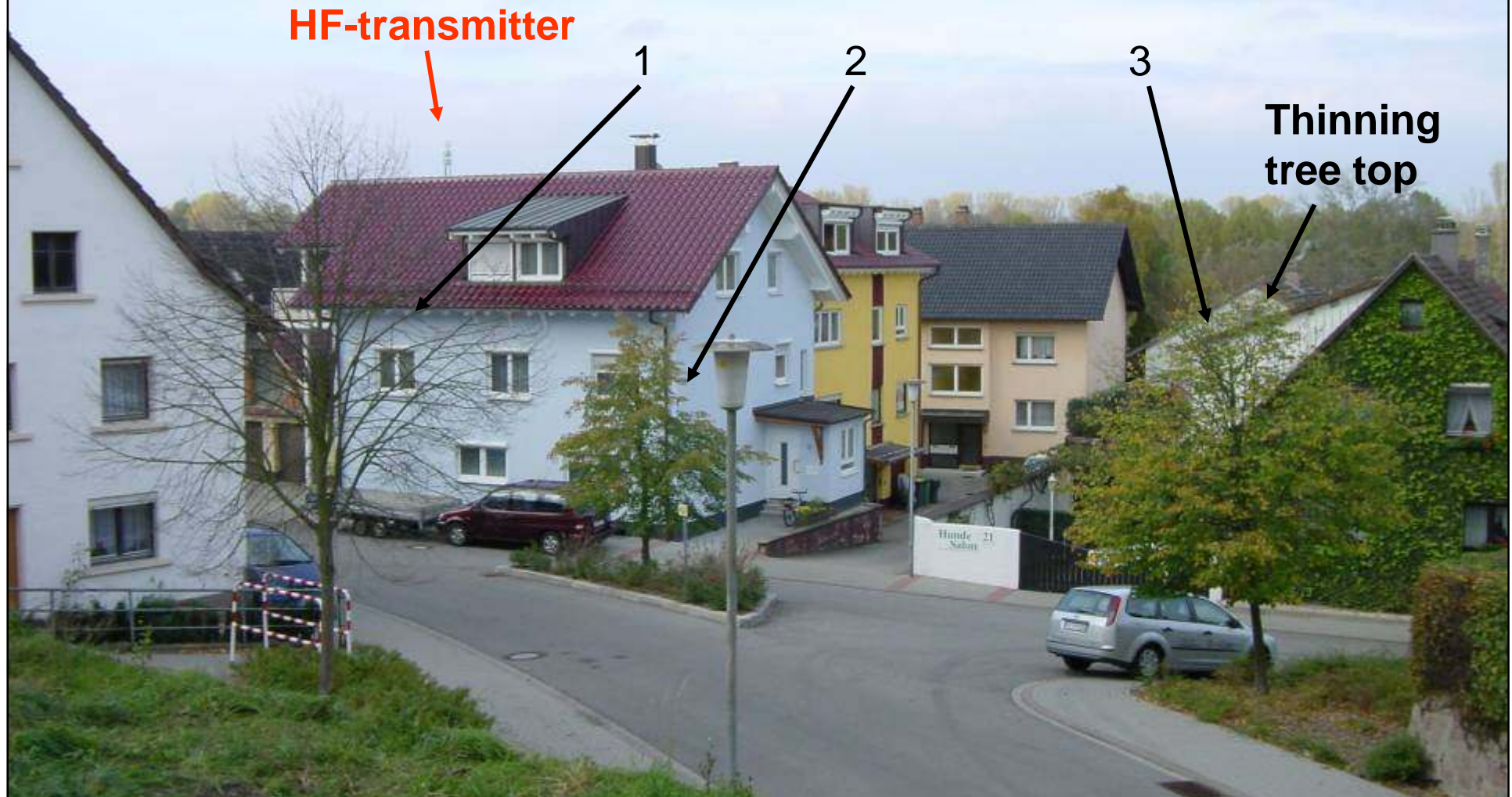
06.11.2006

HF-transmitter



Three lime trees under three different high frequency exposure conditions exhibit different spatial damage structures with different temporal sequences.

06.11.2006



09.11.2006

HF-transmitter



Thinning tree top



09.11.2006

HF-transmitter



09.11.2006



**Typically unnatural leaf wilt
in the tree top area exposed
to high frequency radiation**

Spatially irregular exposure of free standing trees occurs almost exclusively in the built-up environment. Therefore, irregular damage patterns as shown in this picture are also almost exclusively found in the built-up environment.

Spatially homogeneous leaf wilt

HF-transmitter

**Exposed tree top:
Unnatural, spatially
inhomogeneous leaf wilt**



Explanatory Model for the Timeline Sequence „The Three Lime Trees“

Mainly due to their position within the built-up environment, the three lime trees are exposed in different ways. They exhibit spatially different damage structures with different damage timelines. The exposure conditions in this case are simple and straightforward for anyone familiar with the propagation of high frequency radiation: The radiation is diffracted (bent downwards) by the roof ridge of the light blue house. Lime tree number 1 (left) has the highest position. Its transmitter facing side suffers full height exposure to the diffracted high frequency radiation. The exhibited damage is also transmitter facing, i.e. it originates on the side facing the source of the radiation and expands in the direction of the radiation. The smaller lime tree number 2 has the lowest position and is shielded by the surrounding buildings. The propagation path of the diffracted radiation goes straight past its tree top. This tree does not exhibit any transmitter facing damage and sheds its leaves only in mid-November and with a regular pattern of wilting. Lime tree number 3 is positioned in a way which exposes part of its tree top to the diffracted radiation from the transmitter. This tree exhibits the “typical” spatially inhomogeneous (irregular) damage, expressed by the unnatural premature wilting of the leaves in the tree top. A situation where free standing trees are only partially exposed to high frequency radiation (i.e. only in their tree tops) can usually only be found within the built-up environment. Hence, this particular pattern of damage is also almost exclusively found in free standing deciduous trees within a built-up environment.

Tree Damage from Chronic High Frequency Exposure

More informations and explanations at

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The End

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