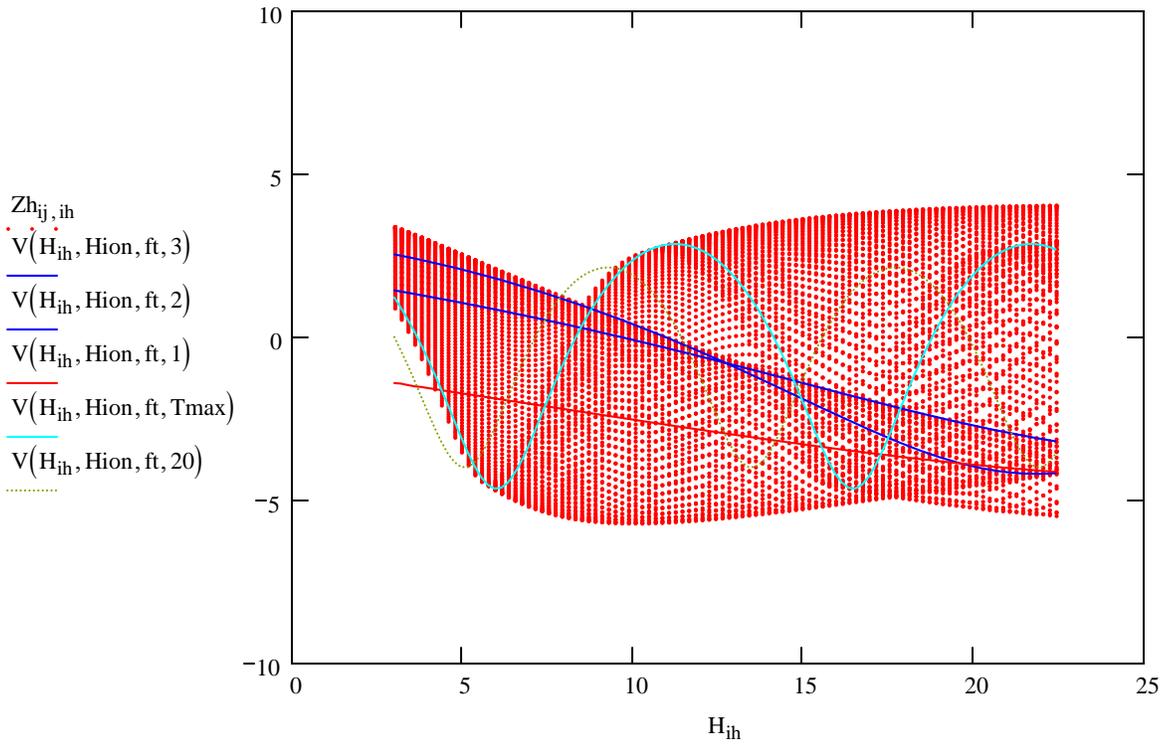


Tmin := 2

Vertical Pol Sea water

ft := 52

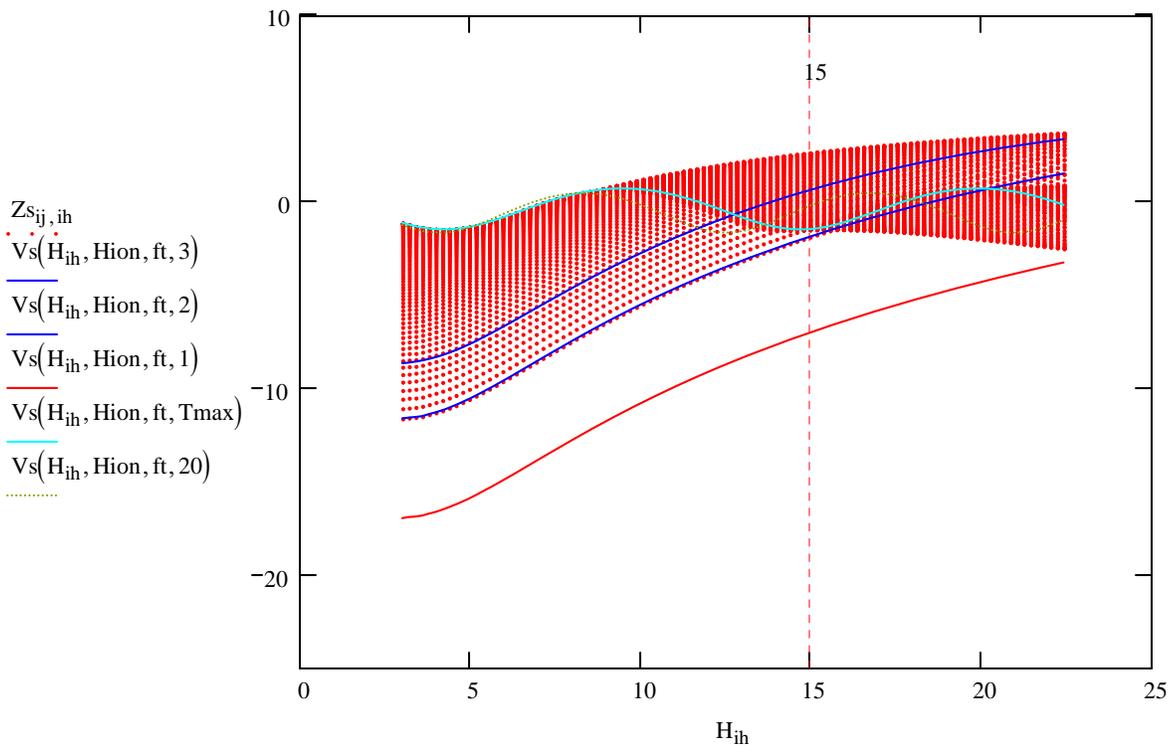
$$Tmax := 16 \quad to_{ij} := Tmin + \frac{ij}{IH - 1} \cdot (Tmax - 1) \quad Zh_{ij, ih} := V(H_{ih}, Hion, ft, to_{ij})$$



Vertical Pol Earth

ft = 52

$$Zs_{ij, ih} := Vs(H_{ih}, Hion, ft, to_{ij})$$

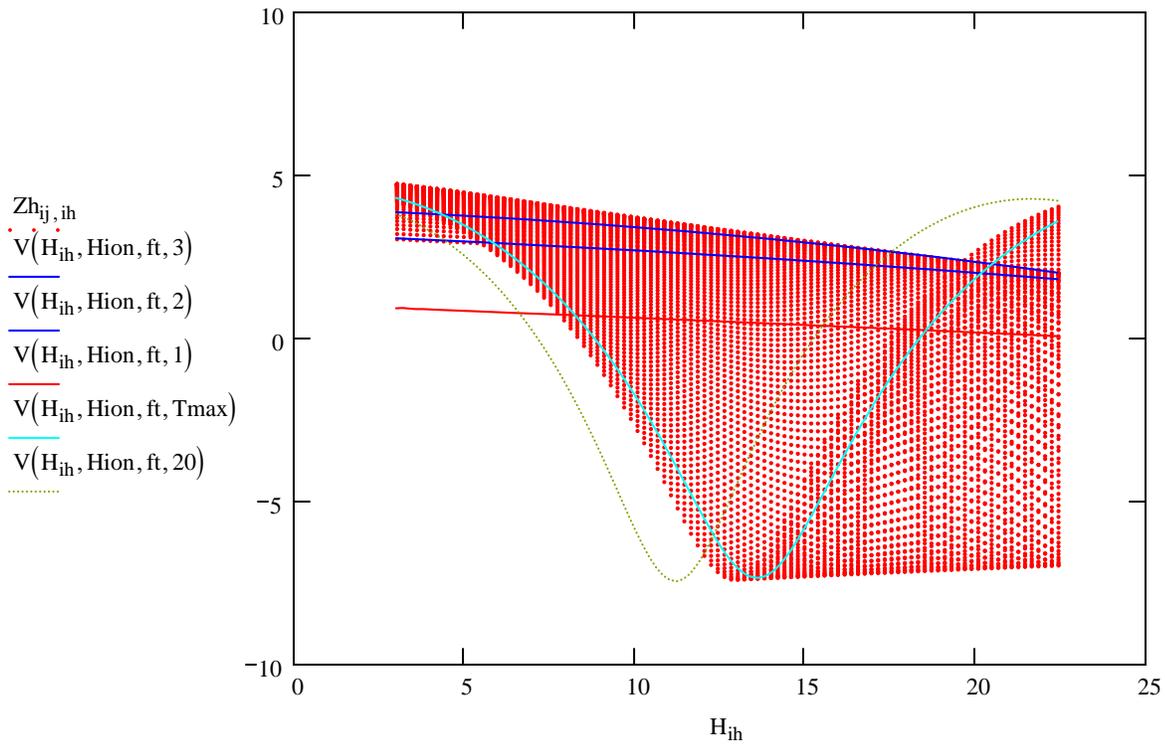


Tmin := 2

Vertical Pol Sea water

ft := 21

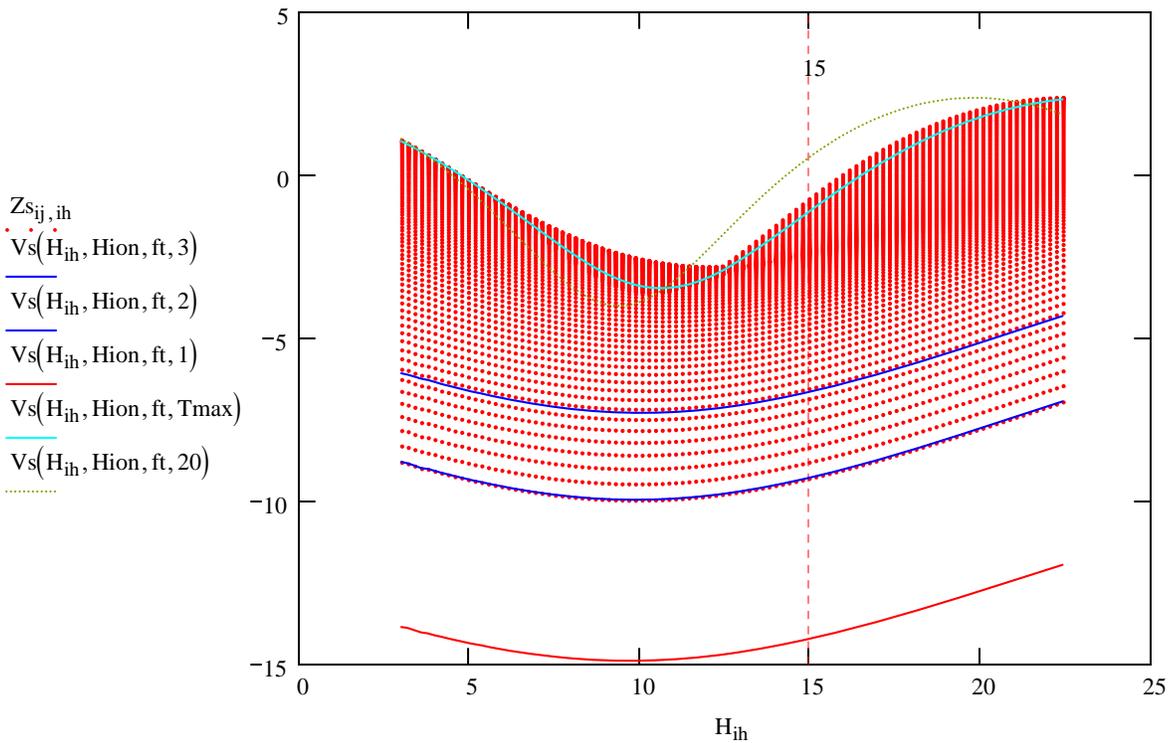
$$Tmax := 16 \quad to_{ij} := Tmin + \frac{ij}{IH - 1} \cdot (Tmax - 1) \quad Zh_{ij, ih} := V(H_{ih}, Hion, ft, to_{ij})$$



Vertical Pol Earth

ft = 21

$$Zs_{ij, ih} := Vs(H_{ih}, Hion, ft, to_{ij})$$



Tmin := 2

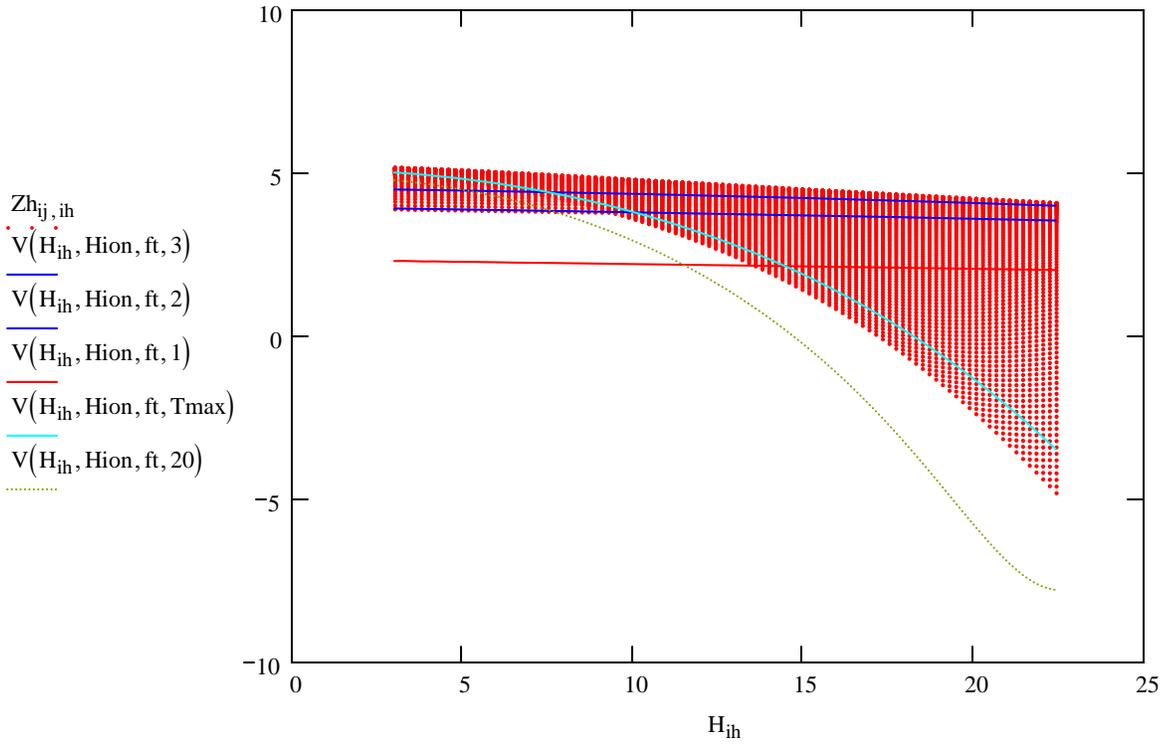
Vertical Pol Sea water

ft := 10

Tmax := 16

$$to_{ij} := Tmin + \frac{ij}{IH - 1} \cdot (Tmax - 1)$$

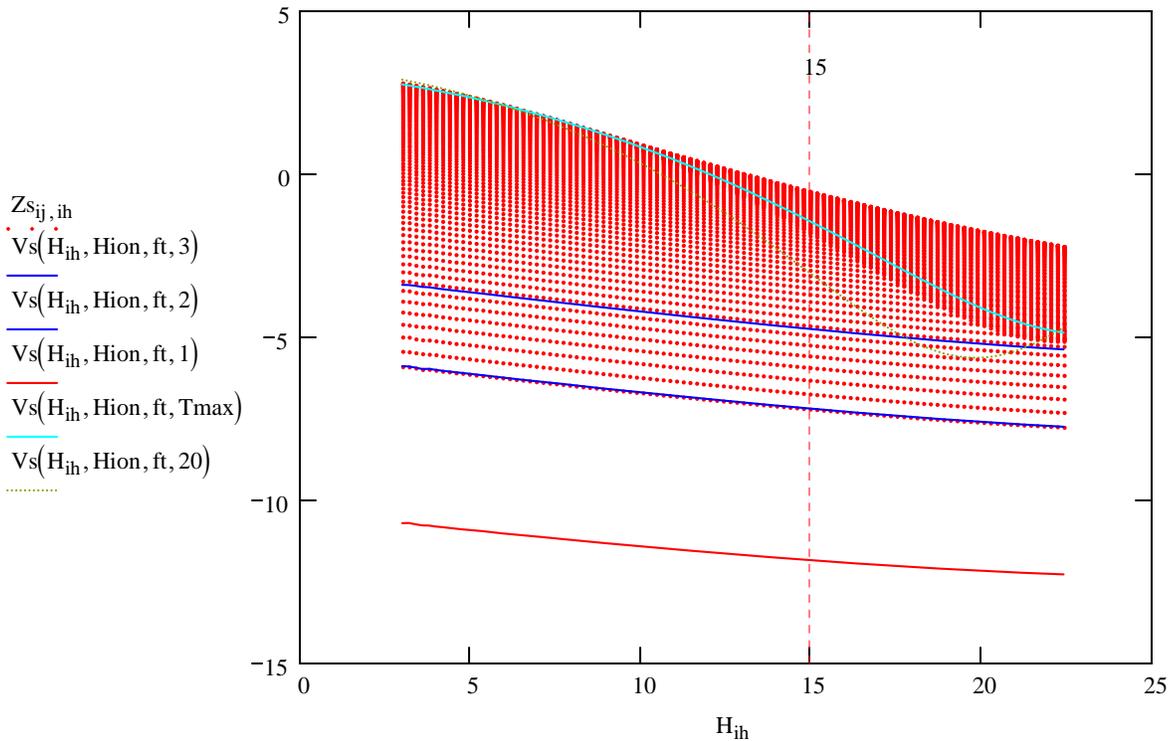
$$Zh_{ij, ih} := V(H_{ih}, Hion, ft, to_{ij})$$



Vertical Pol Earth

ft = 10

$$Zs_{ij, ih} := Vs(H_{ih}, Hion, ft, to_{ij})$$



These equations were used to compute the results in:

- [1] K. Siwiak, "An Optimum Height for an Elevated HF Antenna" QEX May/June 2011.
- [2] K. Siwiak, "What's the Optimum Height for an HF Antenna?" QST June 2011.
- [3] K. Siwiak, "Optimum Height for an Elevated Communications Antenna", DUBUS Magazine, Vol. 39, 3rd Quarter 2010, pp. 86-99.

They are presented here without warrantee or technical support. Use at your own risk.