

FIGURE 17

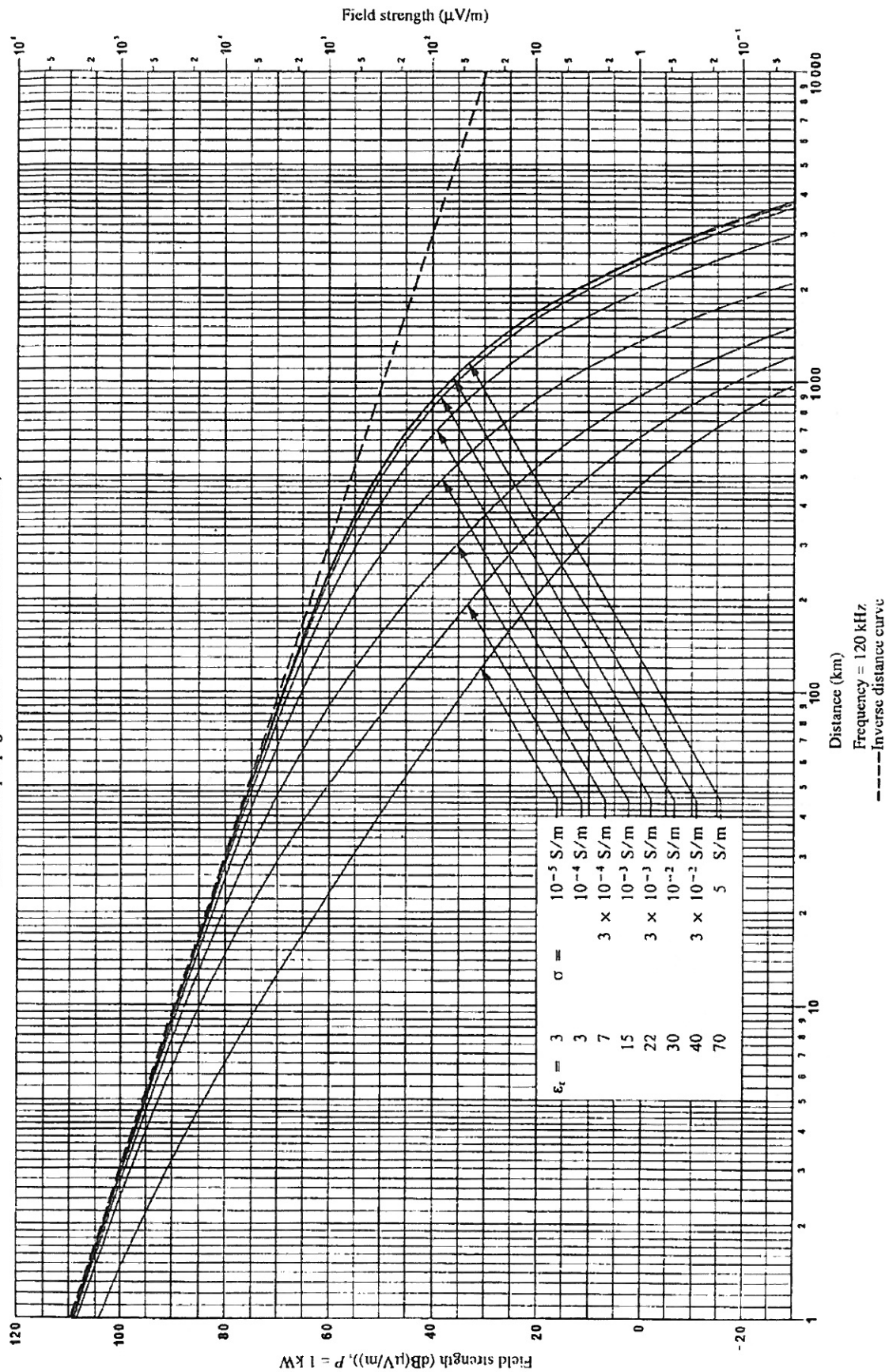
Ground-wave propagation for different values of σ and ϵ_r 

FIGURE 16

Ground-wave propagation for different values of σ and ϵ_r

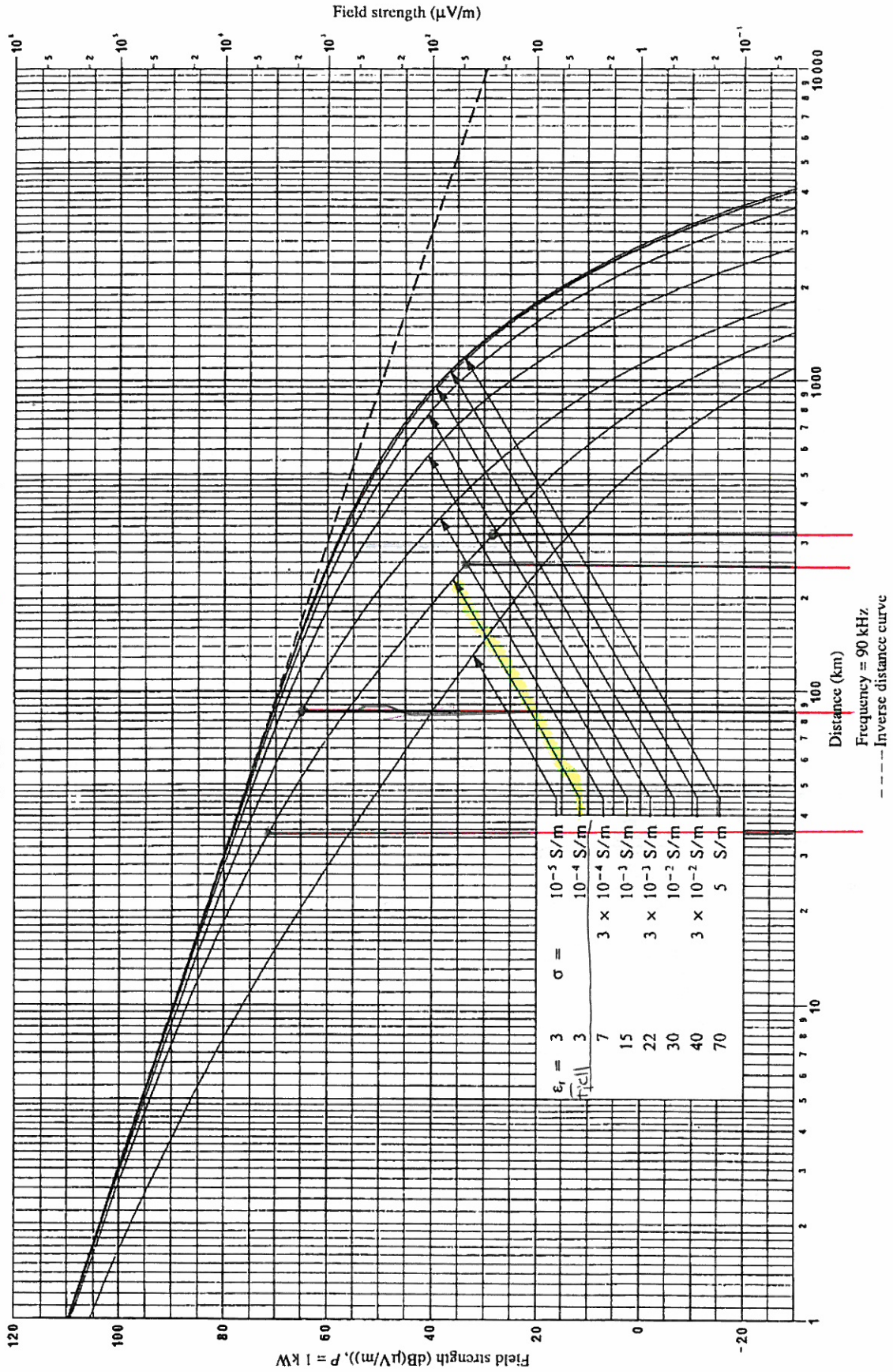
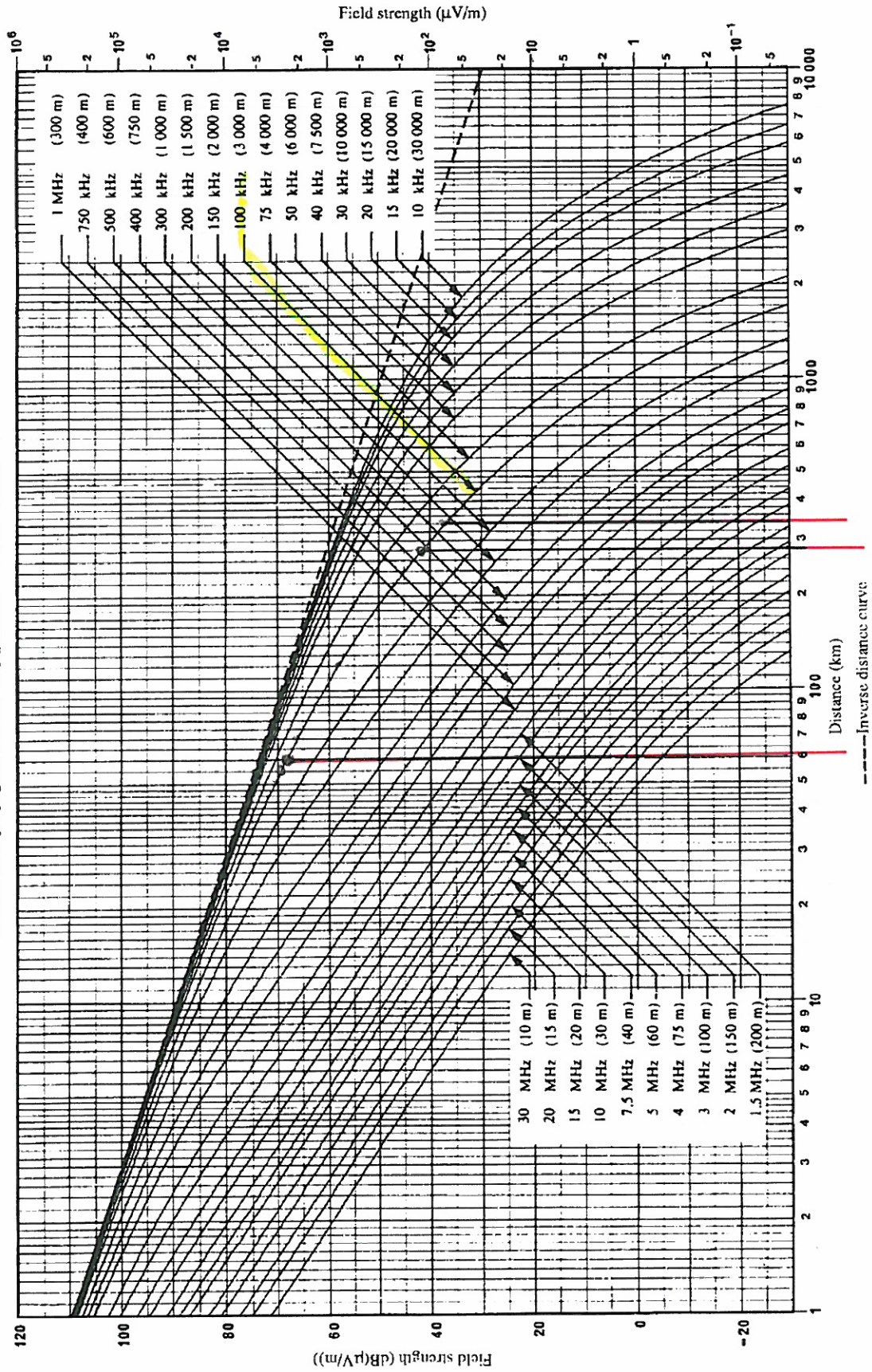


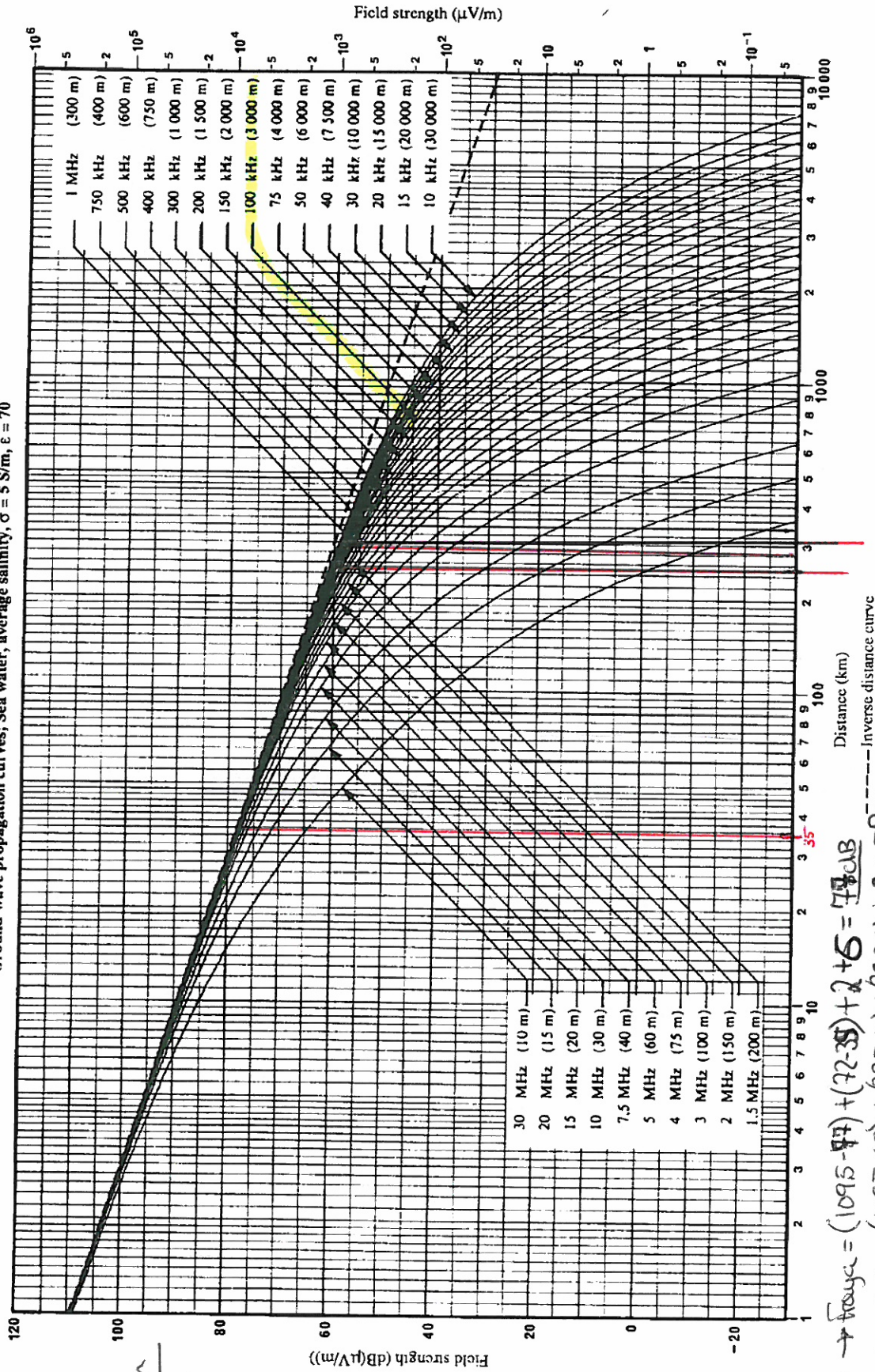
FIGURE 8

Ground-wave propagation curves; Dry ground, $\sigma = 3 \times 10^{-4}$ S/m, $\epsilon = 7$ 

0368-08

Verlaudet

FIGURE 2

Ground-wave propagation curves; Sea water, average salinity, $\sigma = 5 \text{ S/m}$, $\epsilon = 70$ 

1. $S_{10} = 35 \text{ km}$
 2. $F_{11} = 220 \text{ km}$
 3. $S_{10} = 252 \text{ km}$
 4. $T_{0.01, 1000} = 60 \text{ km}$
- 340 km

Varlandet \rightarrow Frøya = $(109.5 - 77) + (72.35) + 2 + 6 = 77.85 \text{ dB}$

Frøya \rightarrow Varlandet = $(109.5 - 68) + (77.5 - 68) + (72.34) + 2 = 88.5$

$$\frac{77 + 88.5}{2} = \underline{\underline{82.25 \text{ dB}}}$$

Frøya \leftrightarrow Varlandet \rightarrow Frøya

Millington

11-3

FIGURE 17
Ground-wave propagation for different values of σ and ϵ_r

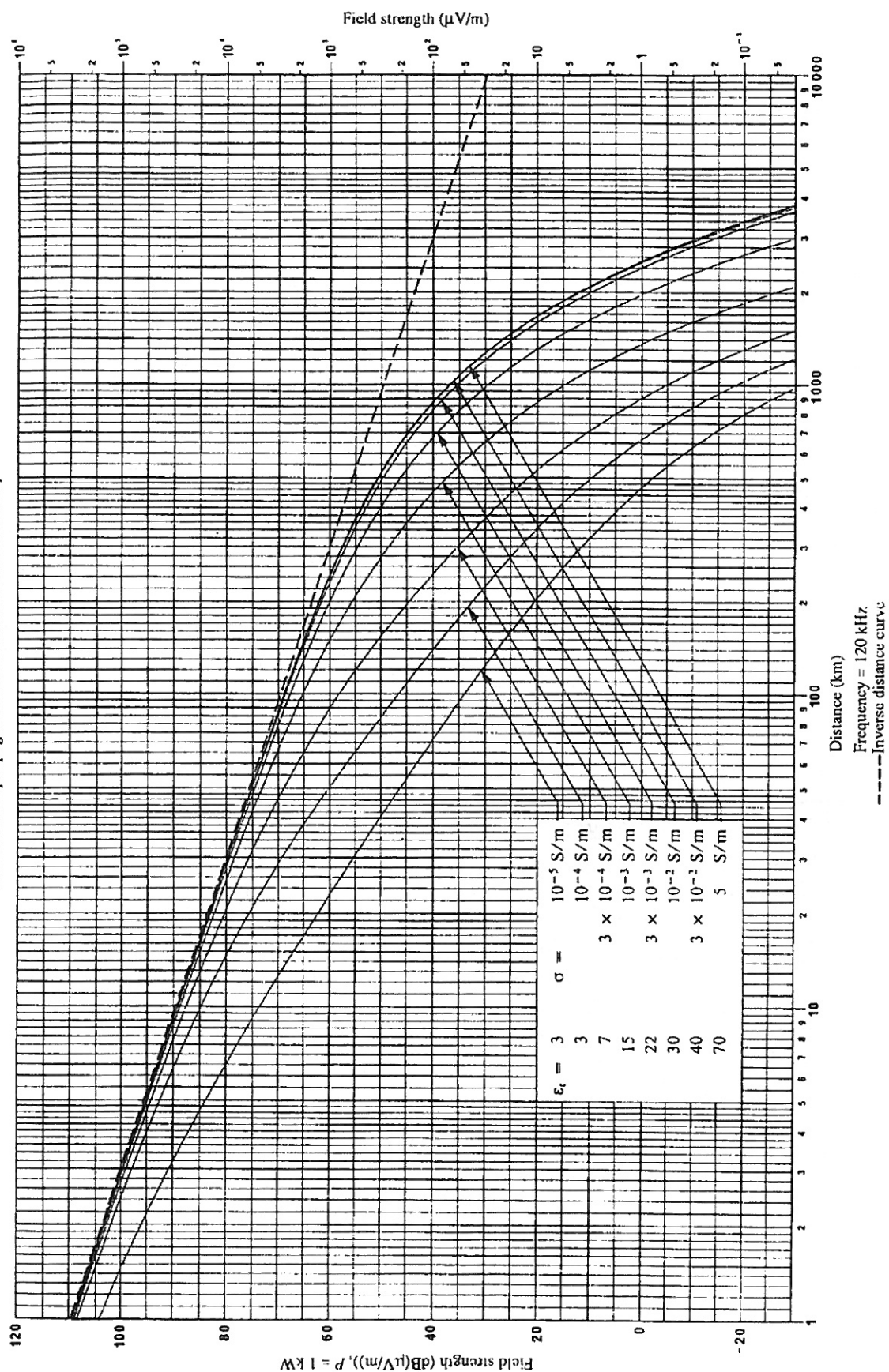


FIGURE 16
Ground-wave propagation for different values of σ and ϵ_r

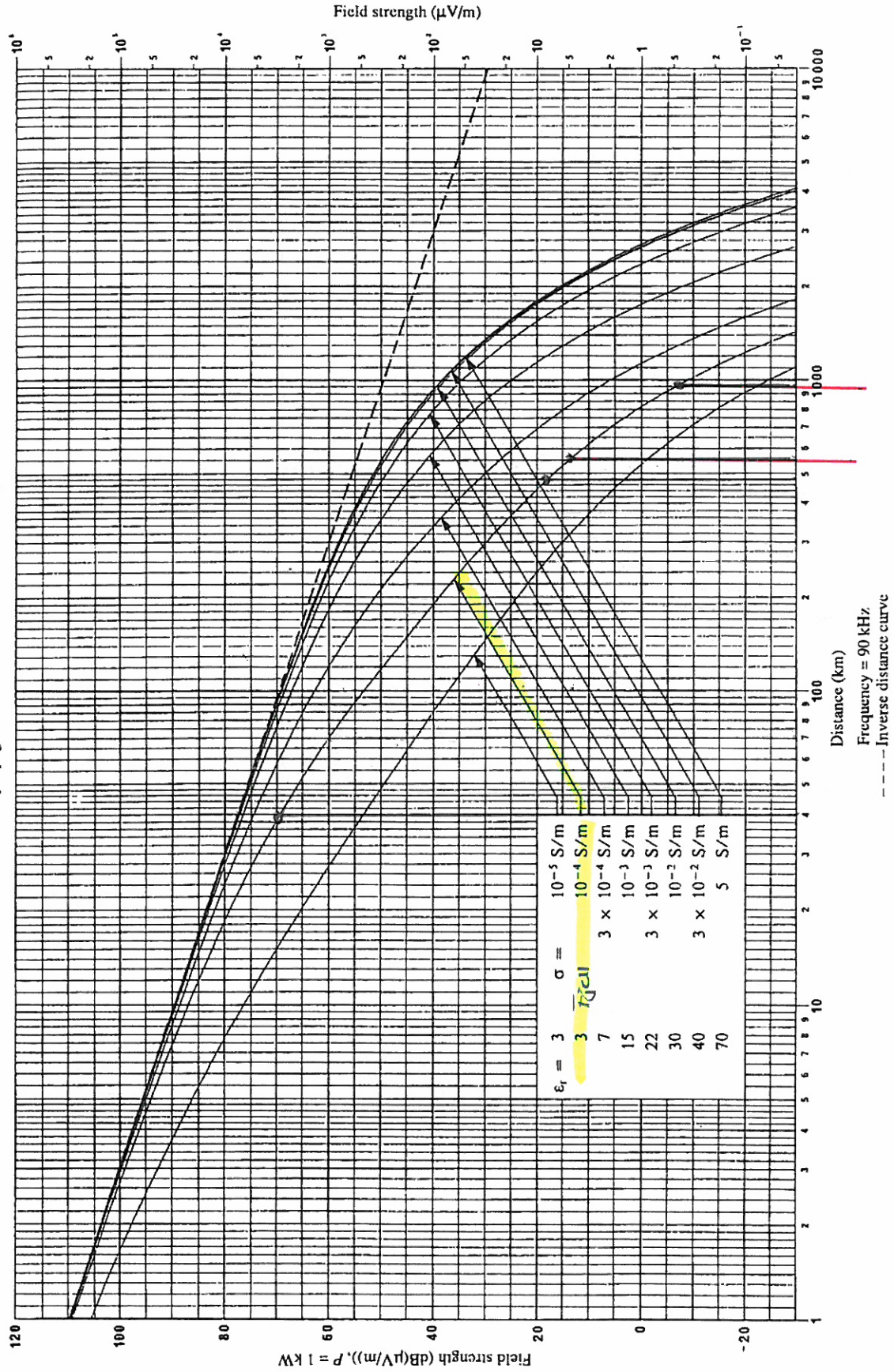


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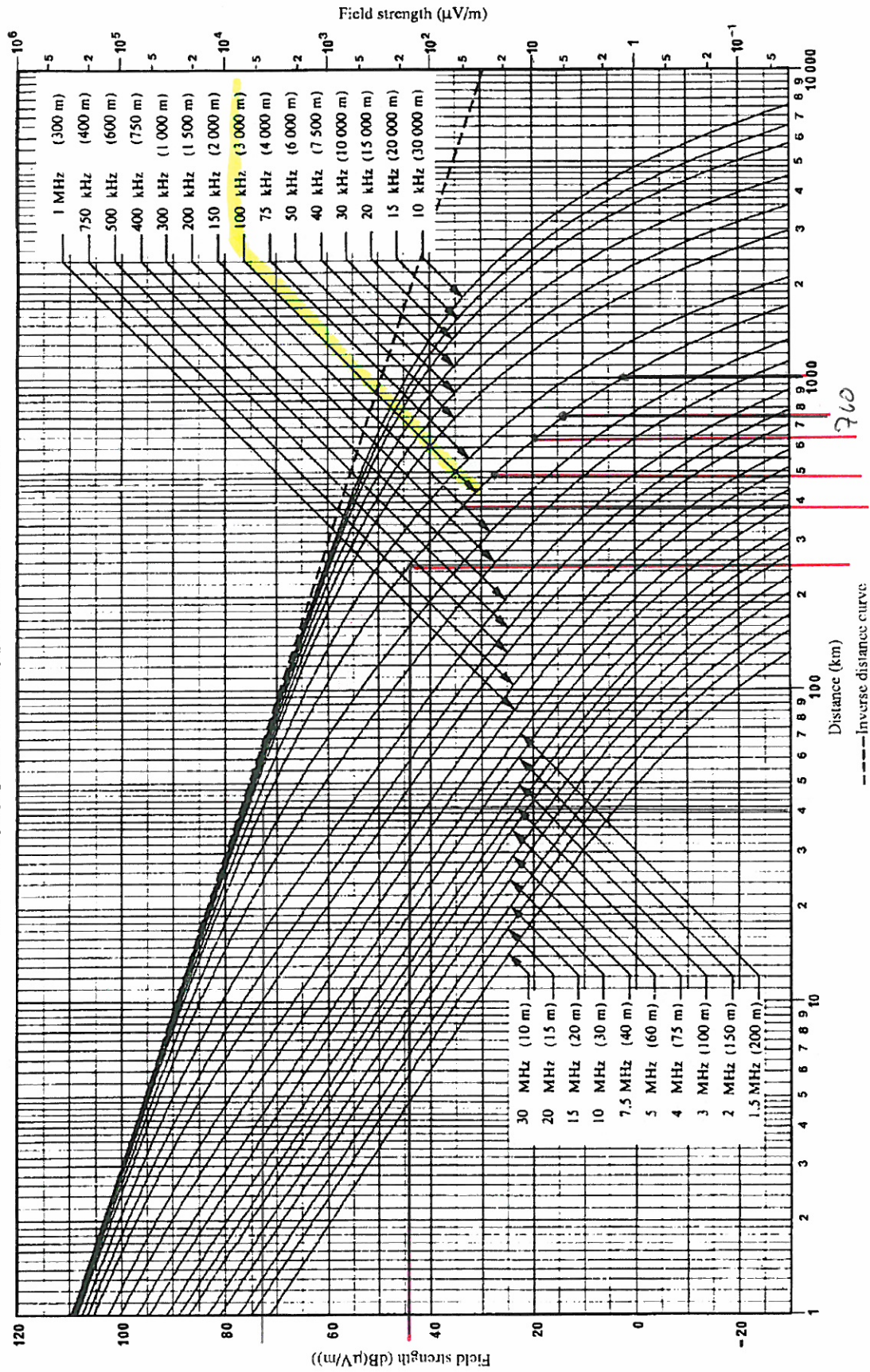
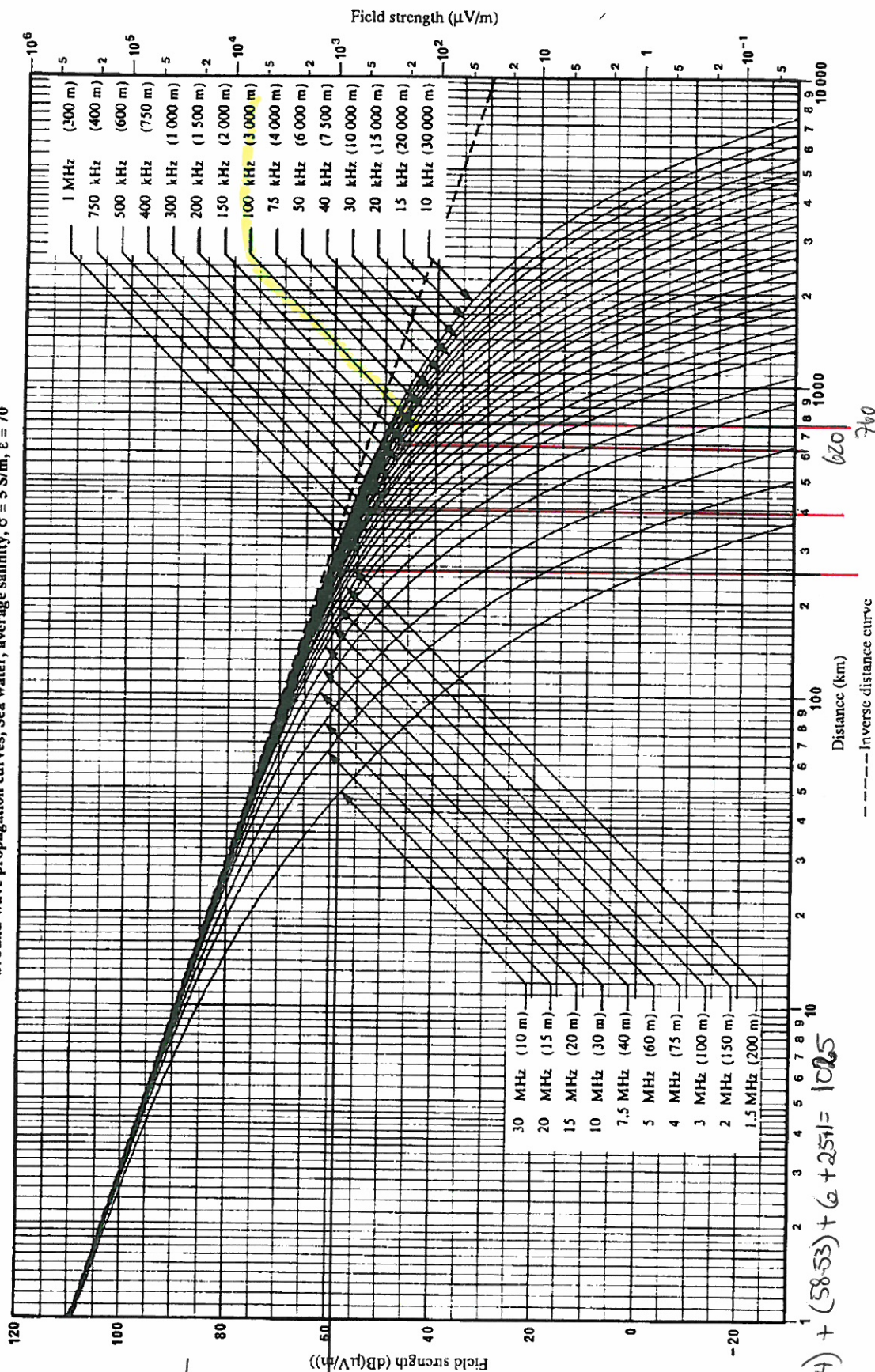
Ground-wave propagation curves; Dry ground, $\sigma = 3 \times 10^{-4}$ S/m, $\epsilon = 7$ 

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Ground-wave propagation curves; Sea water, average salinity, $\sigma = 5 \text{ S/m}$, $\epsilon = 70$ 

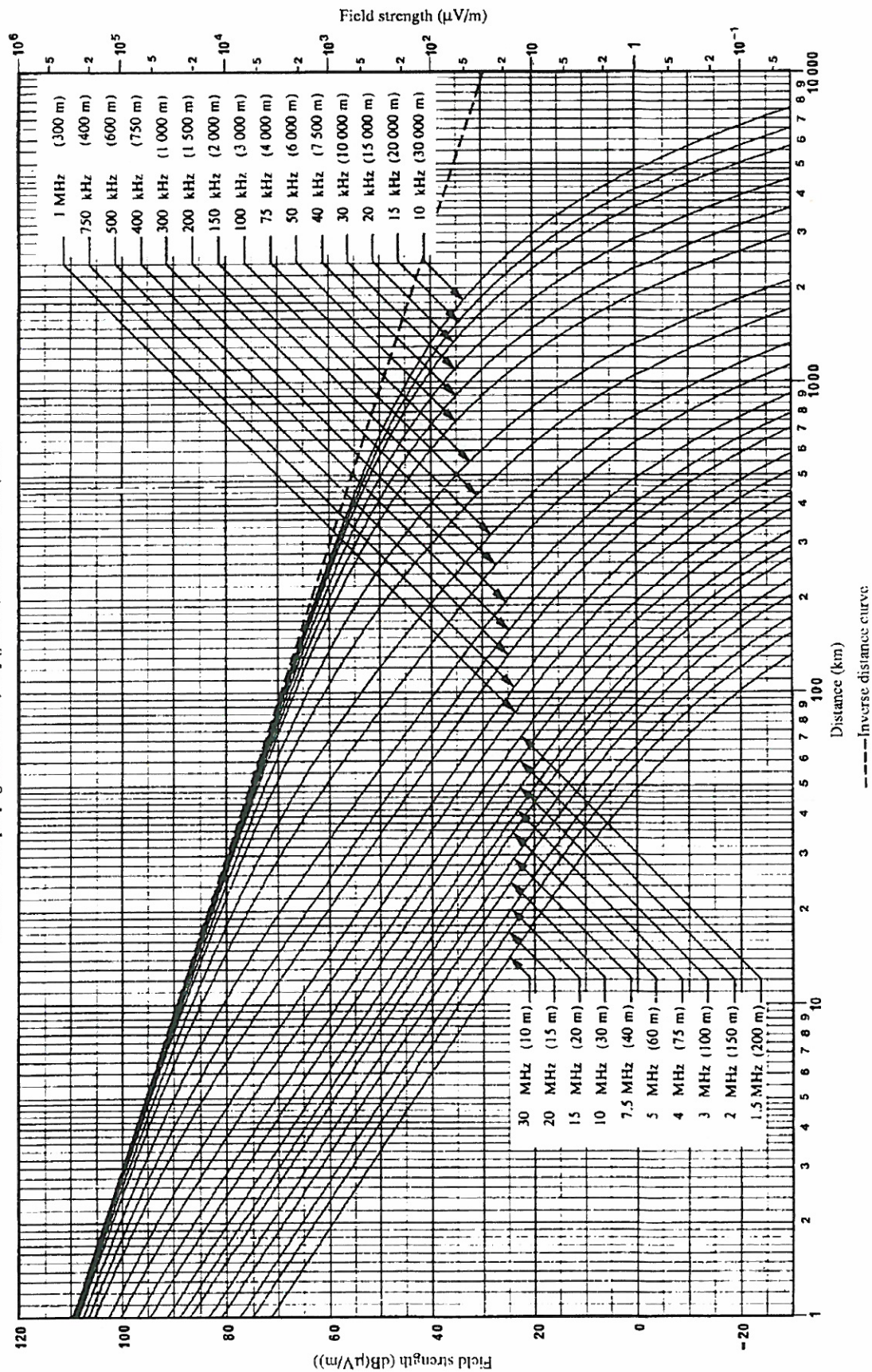
1. $T_{\text{sea land}} = 250$
2. $S_{\text{sea}} = 140$
3. $T_{\text{sea land}} = 80$
4. $f_{\text{cut}} = 500$
5. $T_{\text{sea land}} = 40$

$$S_{\text{ylt}} - F_{\text{røya}} = (109.5 - 44) + (58.53) + 6 + 251 = 102.5$$

$$F_{\text{røya}} - S_{\text{ylt}} = (109.5 - 73) + 57 + 8 + 5 + 11 = 117.5$$

$$\frac{102.5 + 117.5}{2} = 110 \text{ dB}$$

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0368-08

Ejdc

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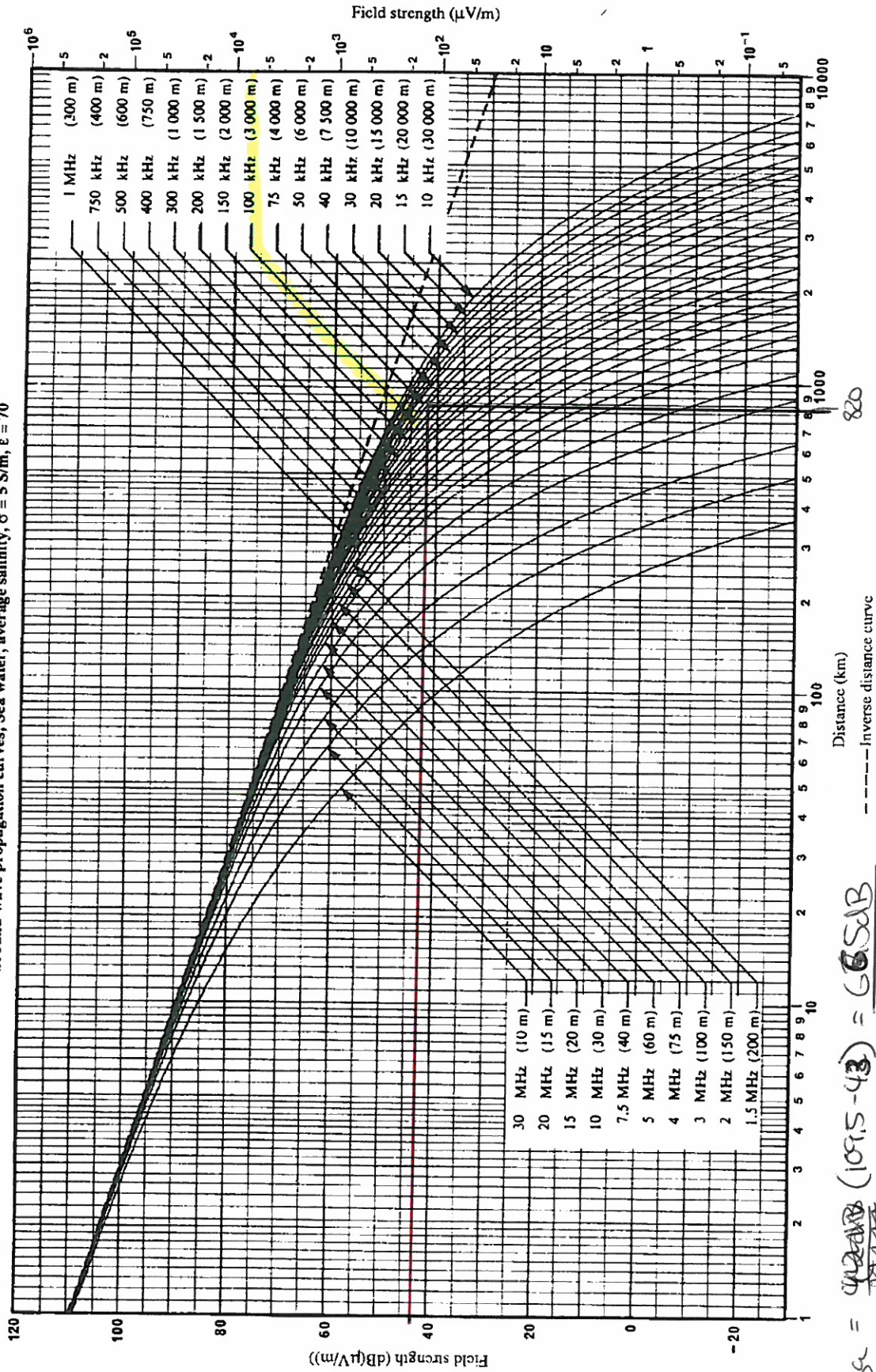


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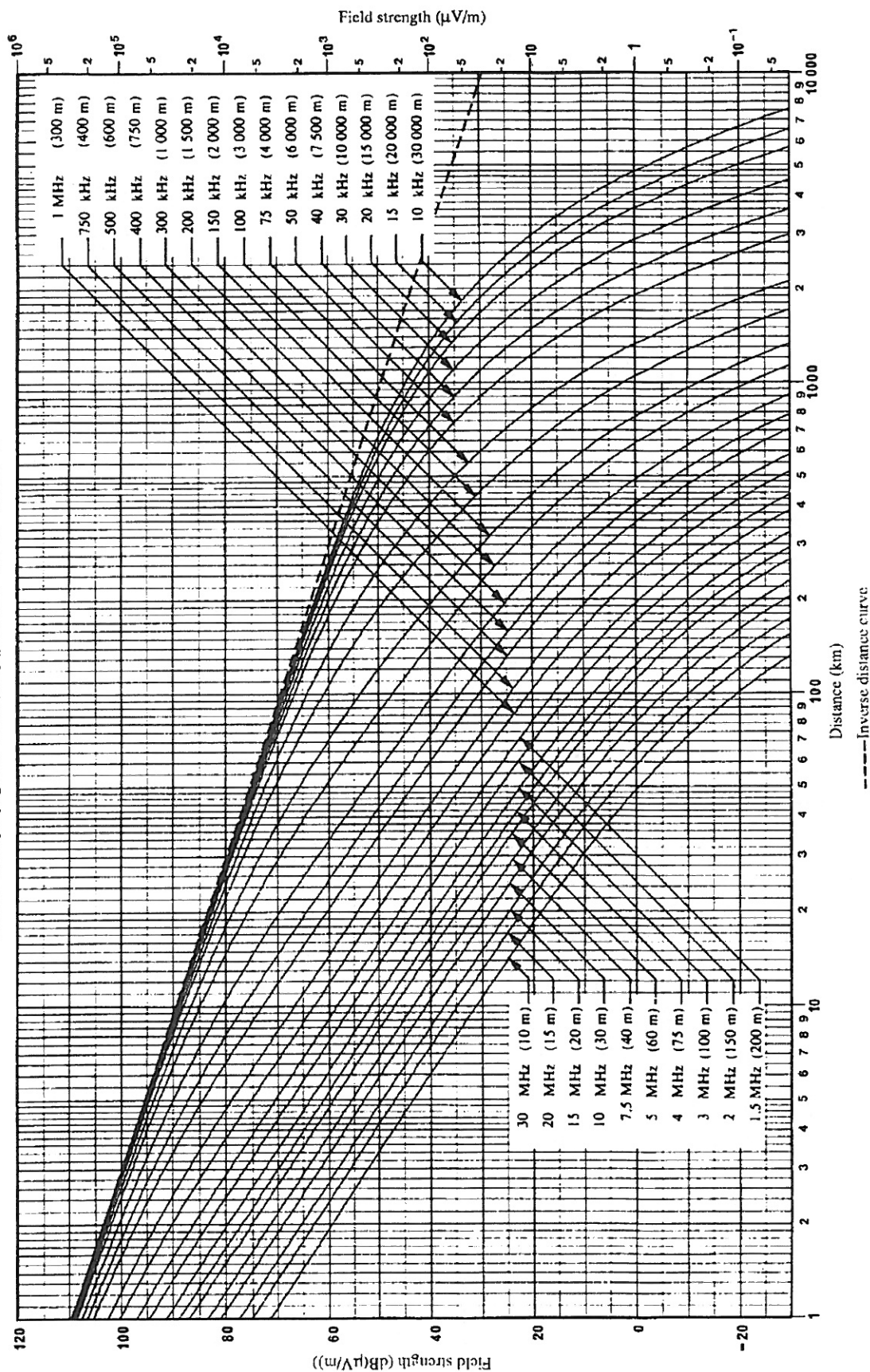
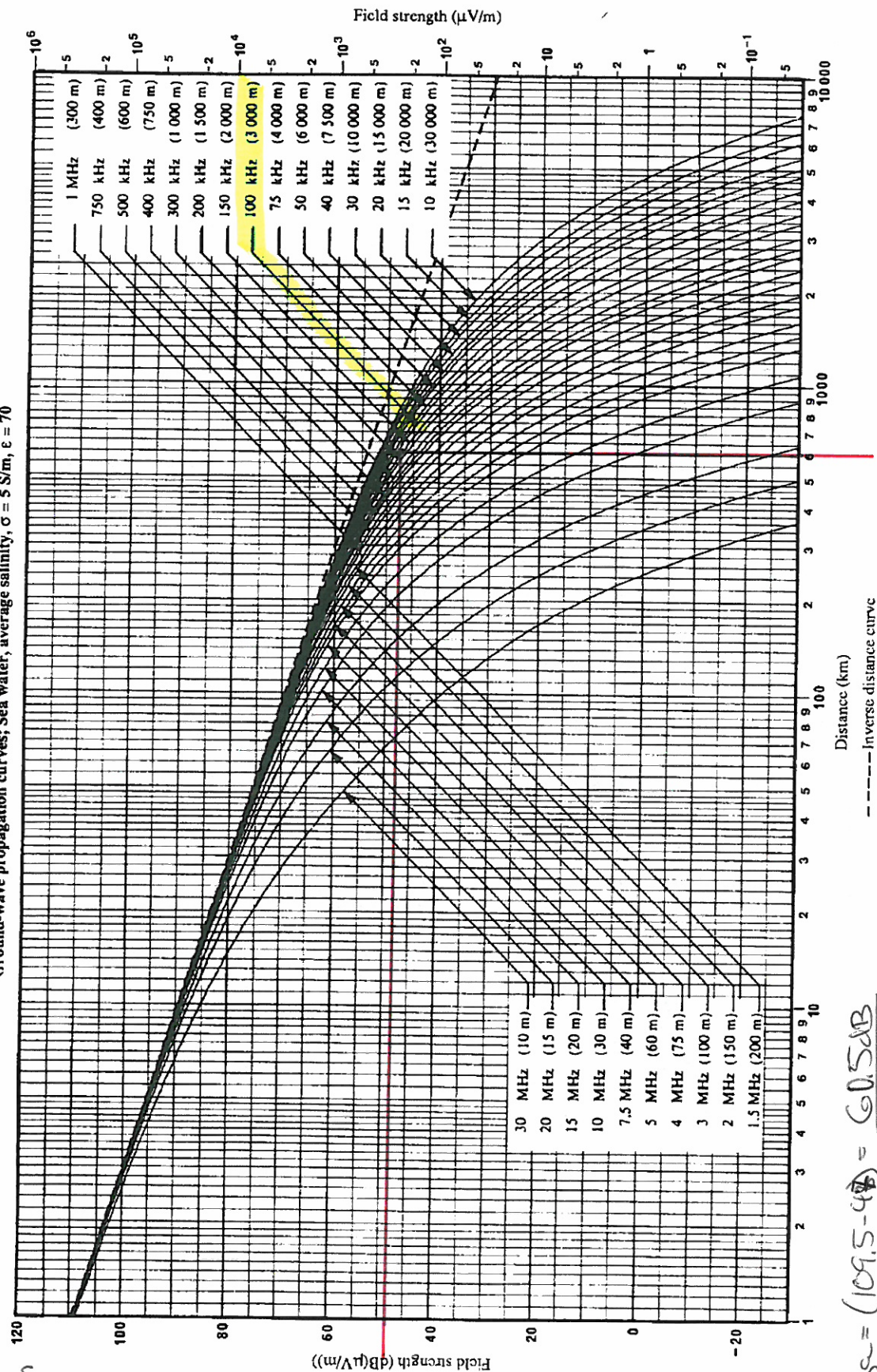
Ground-wave propagation curves; Dry ground, $\sigma = 3 \times 10^{-4}$ S/m, $\epsilon = 7$ 

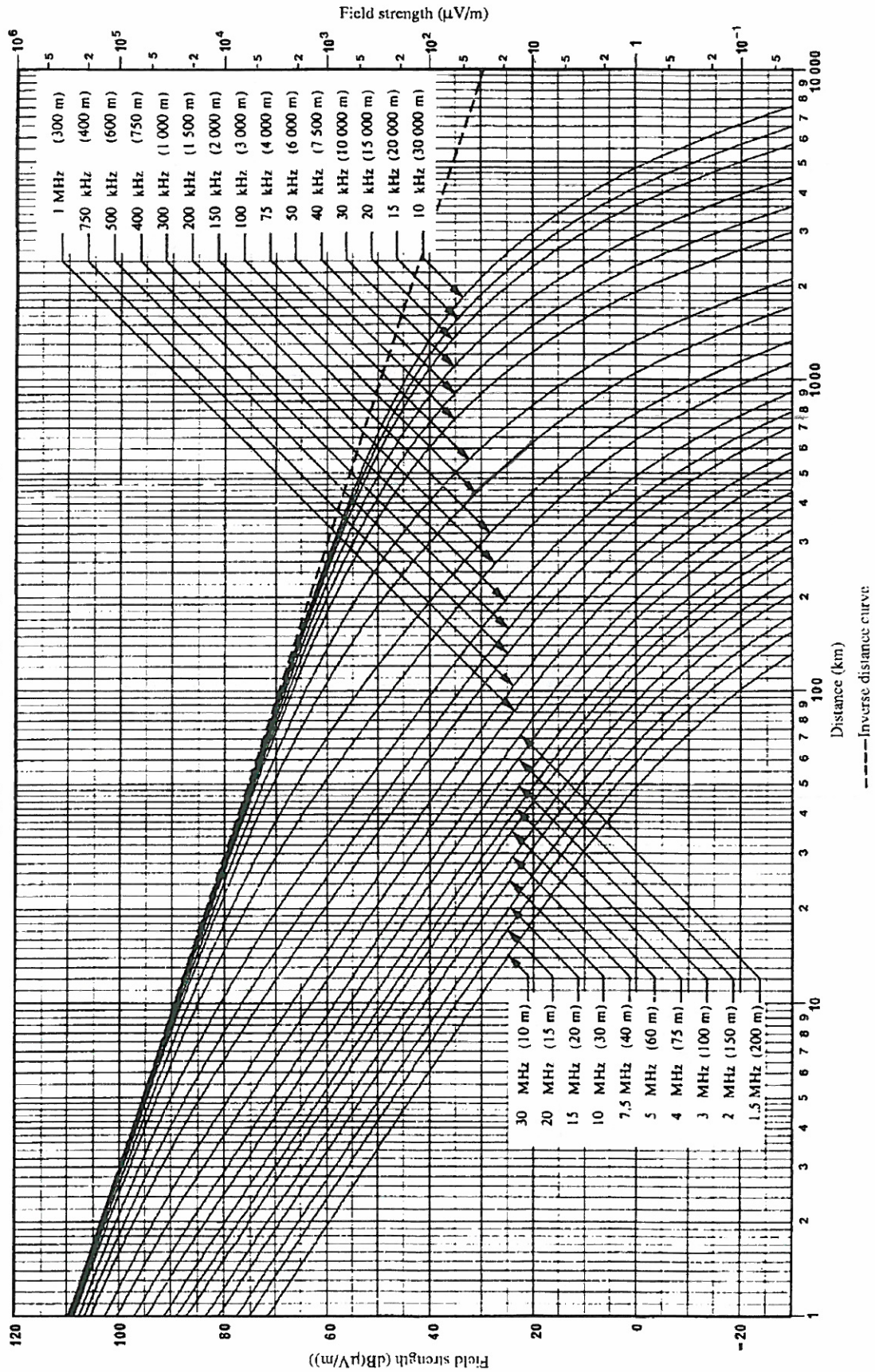
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Ground-wave propagation curves; Sea water, average salinity, $\sigma = 5 \text{ S/m}$, $\epsilon = 70$ 

$$B_{\alpha} - \text{Freyer} = (109.5 - 47) = 60.5 \text{ dB}$$

$$1. S_{\alpha} = 600 \text{ km}$$

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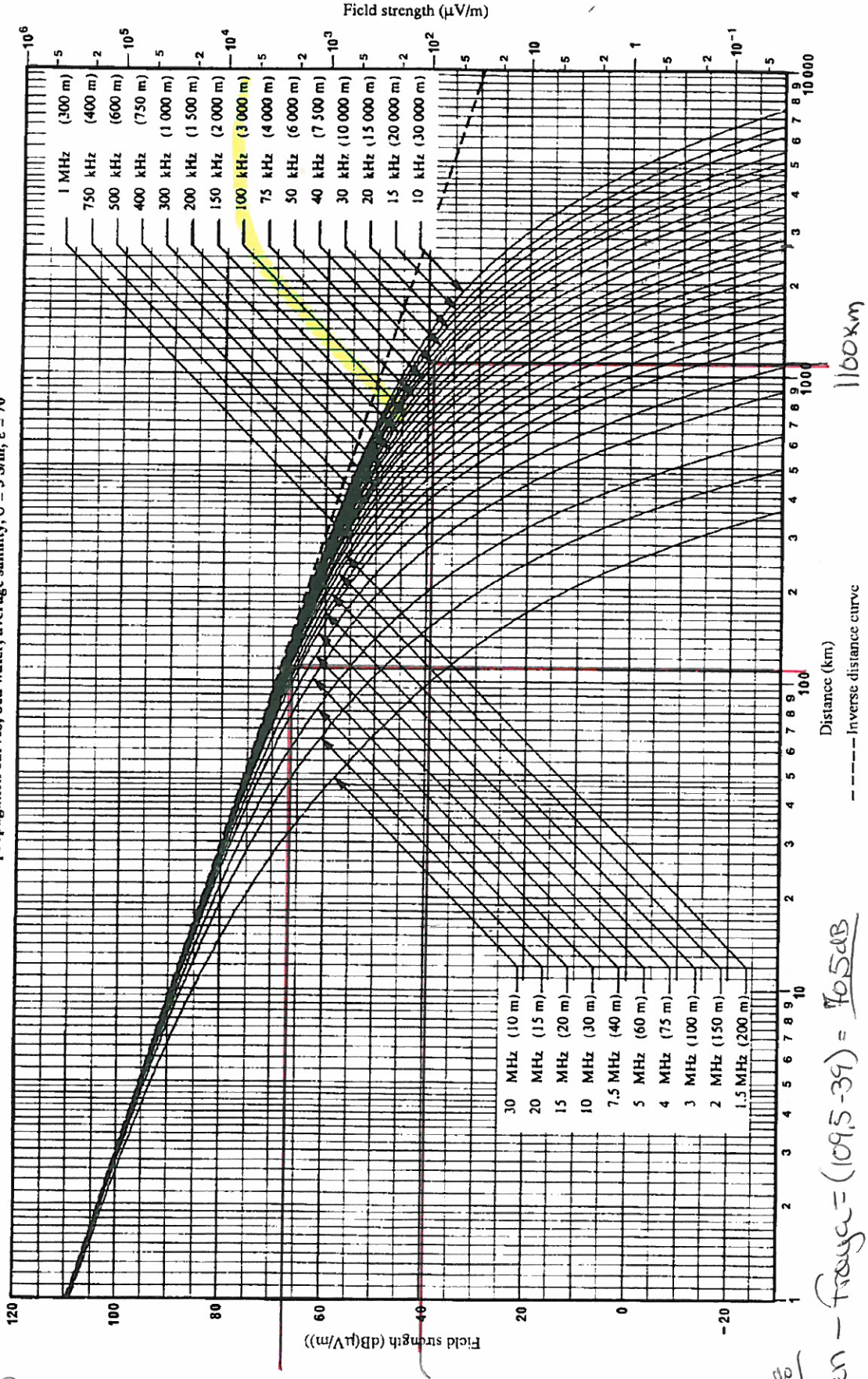
San Mayen

Millington 11-3

Jan Mayen → Freya

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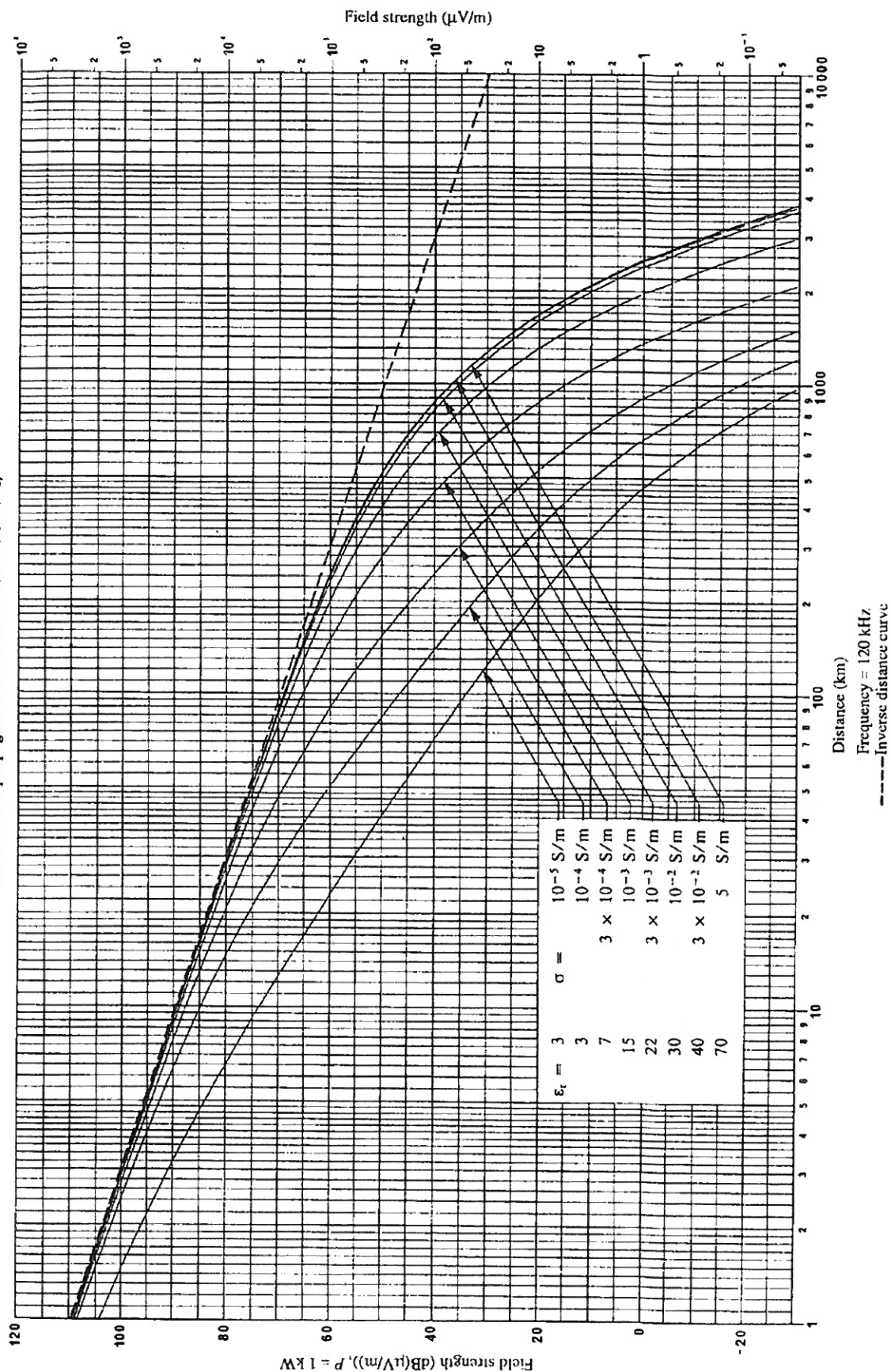


1. $S_{10} = 1090$

Demping

Jan Mayen - Freya = $(109,5 - 39) = 70,5 \text{ dB}$

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Bestway

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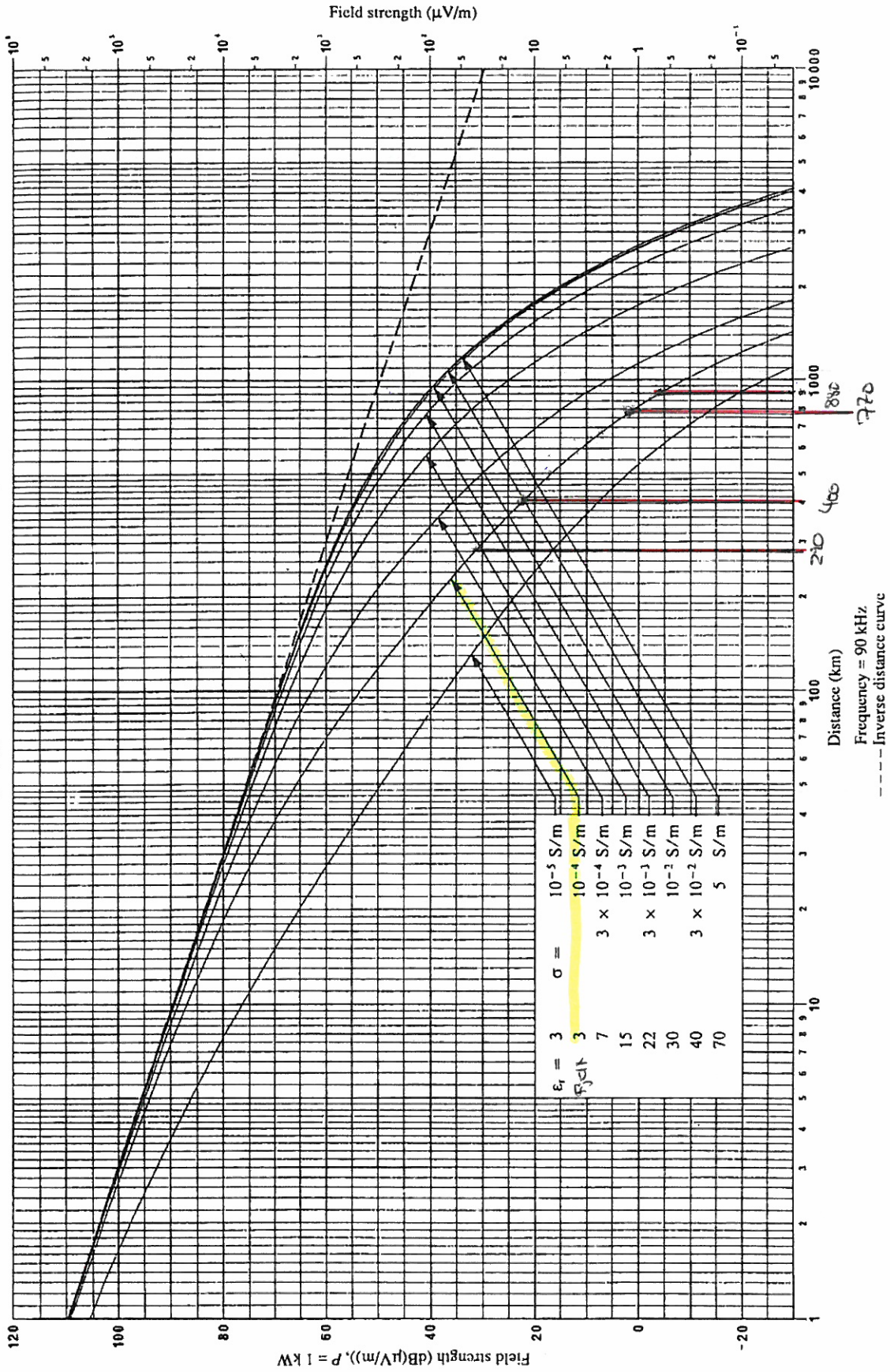


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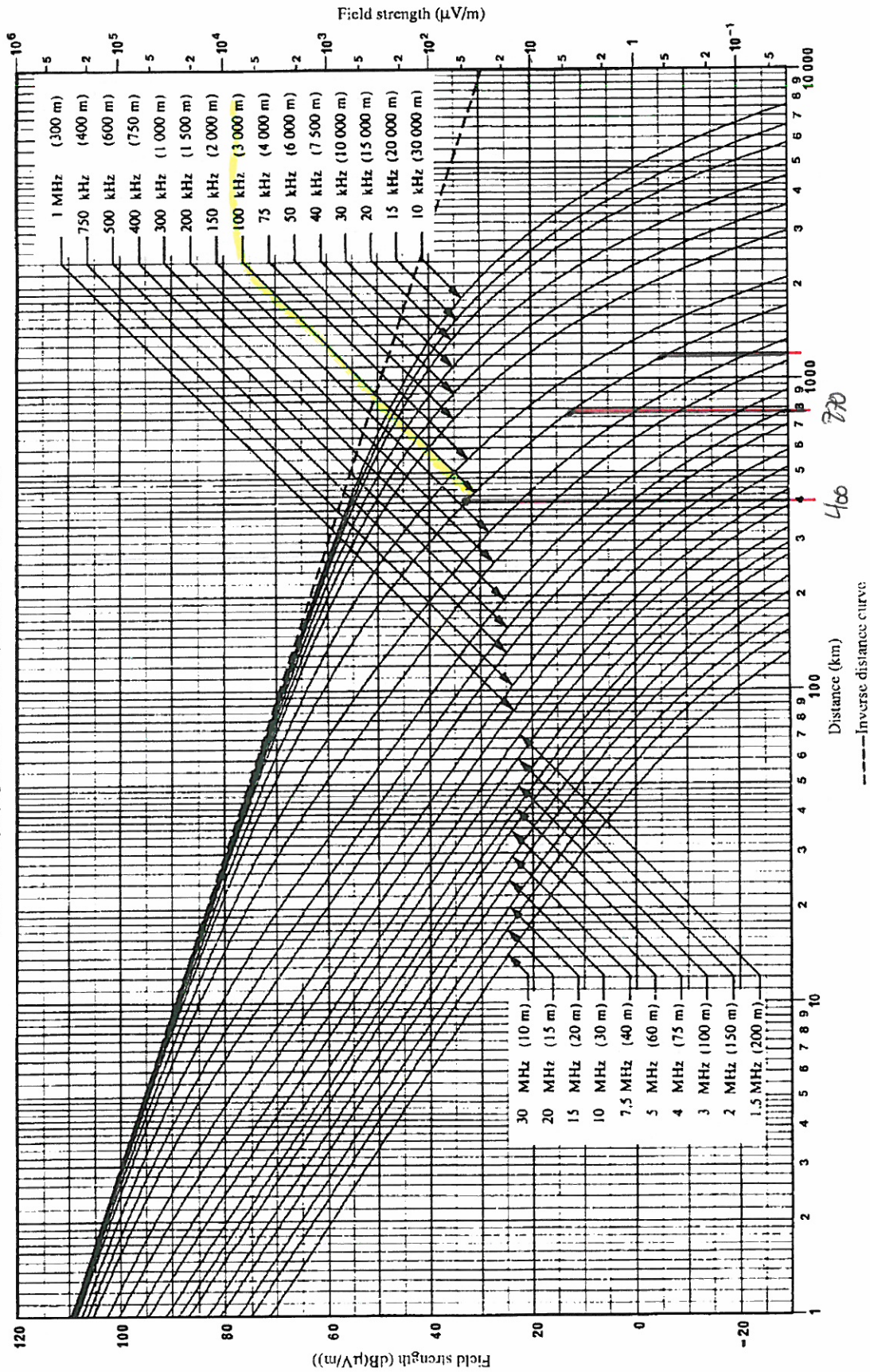
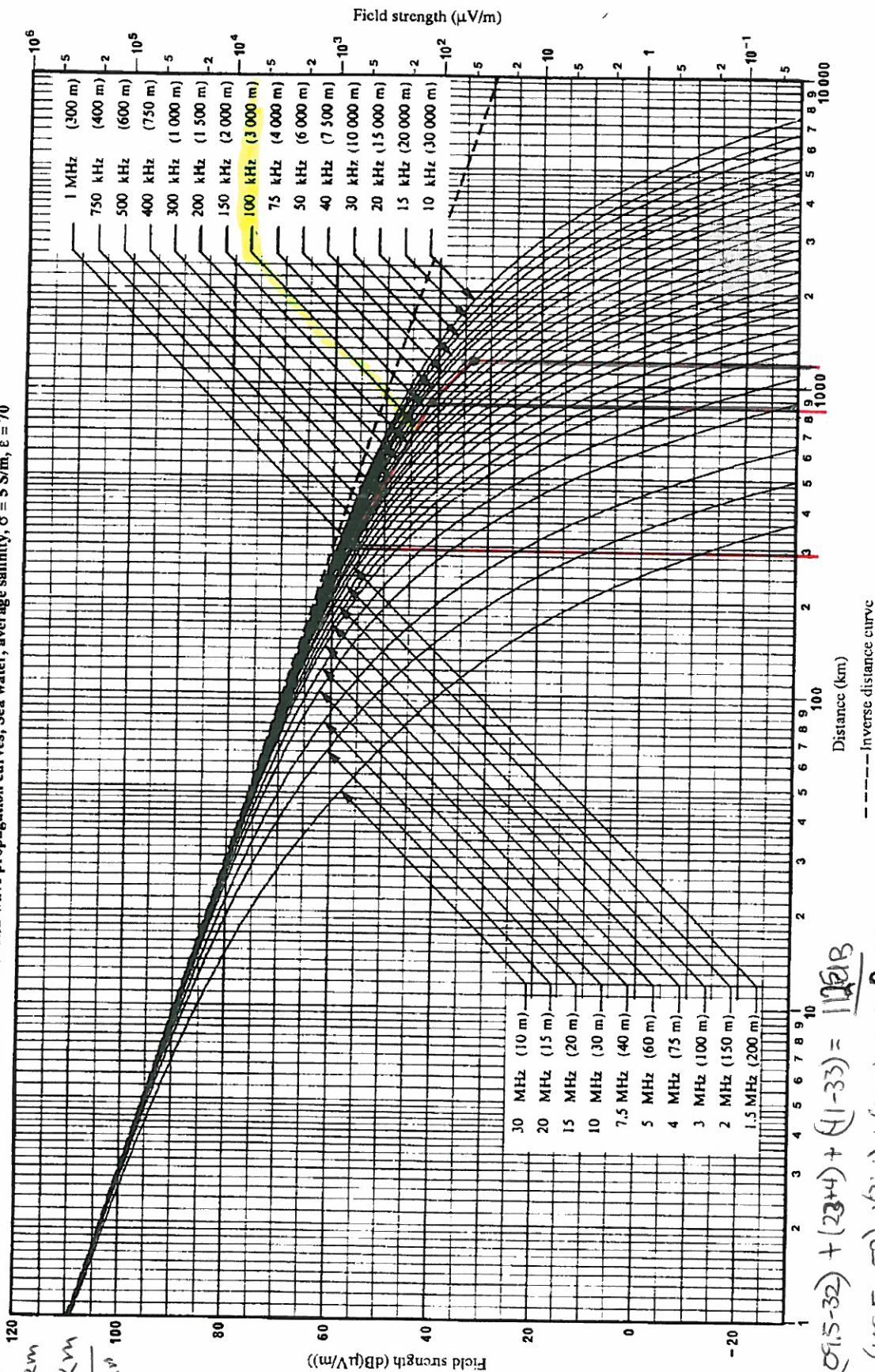
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Ground-wave propagation curves; Sea water, average salinity, $\sigma = 5 \text{ S/m}$, $\epsilon = 70$ 

1. $100 \text{ km} = 400 \text{ km}$
2. $f_{\text{cell}} = 480 \text{ km}$
3. $S_{\text{IQ}} = 290 \text{ km}$

$$\frac{1170 \text{ km}}{2}$$

$$\begin{aligned} \text{Berlevåg-Frøya} &= (101.5 - 32) + (23 + 4) + (41 - 33) = 112.5 \text{ dB} \\ \text{Frøya-Berlevåg} &= (101.5 - 57) + (31 - 1) + (13 + 6) = 102.5 \end{aligned}$$

$$\frac{111 + 100.5}{2} = 108.25 \text{ dB}$$