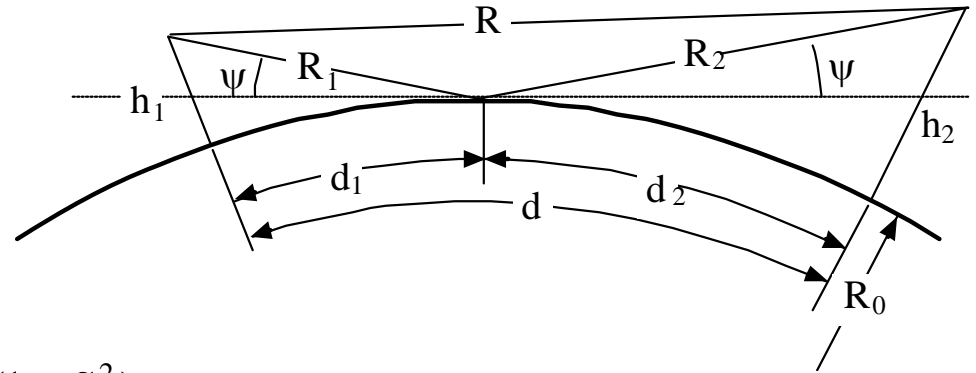


Onda riflessa su terra sferica



$$\Delta R = R_1 + R_2 - R = \frac{2h_1h_2}{d} (1 - S_1^2)(1 - S_2^2)$$

differenza di cammino

$$\tan \psi = \frac{h_1(1 - S_1^2) + h_2(1 - S_2^2)}{d}$$

angolo di radenza

$$D = \left(1 + \frac{2d_1d_2}{R_0 d \tan \psi} \right)^{-\frac{1}{2}}$$

fattore di divergenza

$$S_1 = \frac{d_1}{\sqrt{2R_0h_1}}$$

$$d_1 = \frac{d}{2} + p \cos \frac{\Phi + \pi}{3}$$

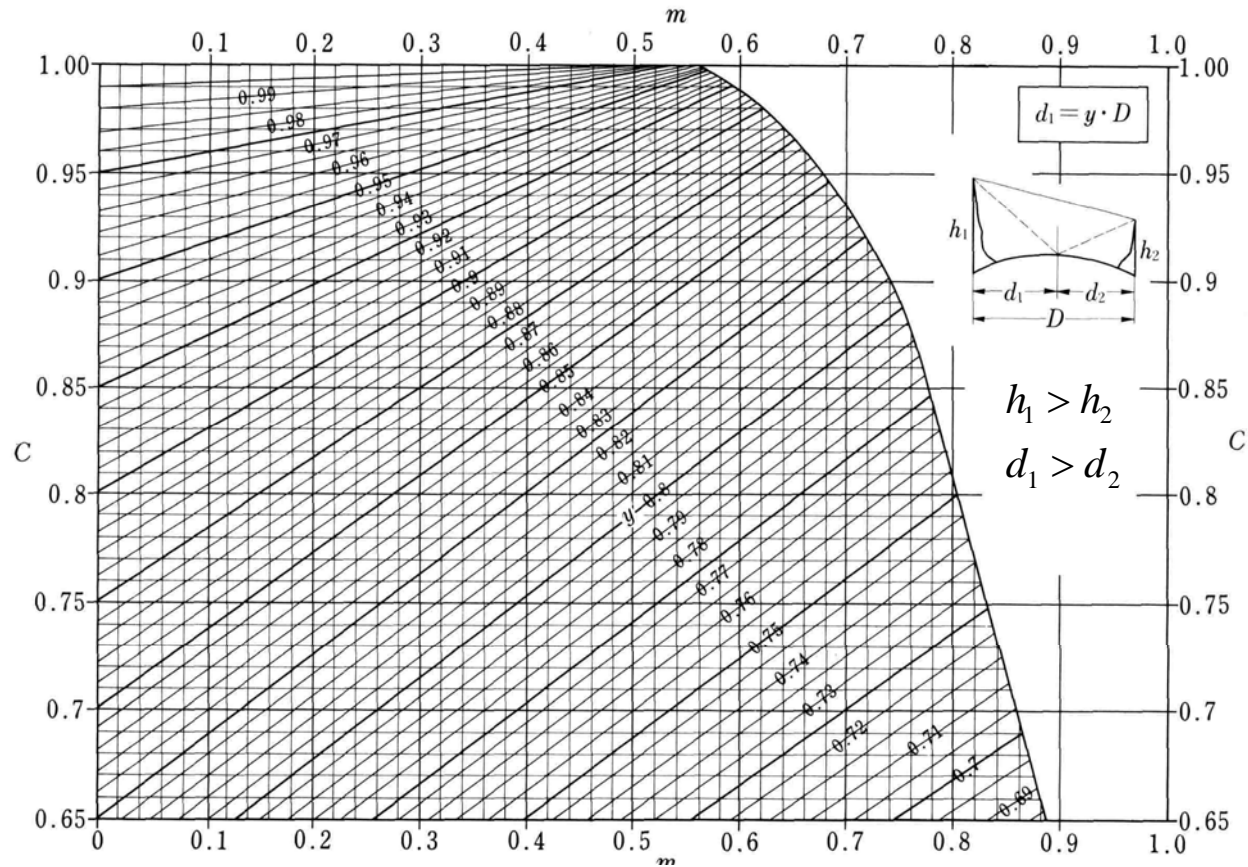
$$p = \frac{2}{\sqrt{3}} \sqrt{R_0(h_1 + h_2) + \frac{d^2}{4}}$$

$$S_2 = \frac{d_2}{\sqrt{2R_0h_2}}$$

$$d_2 = \frac{d}{2} - p \cos \frac{\Phi + \pi}{3}$$

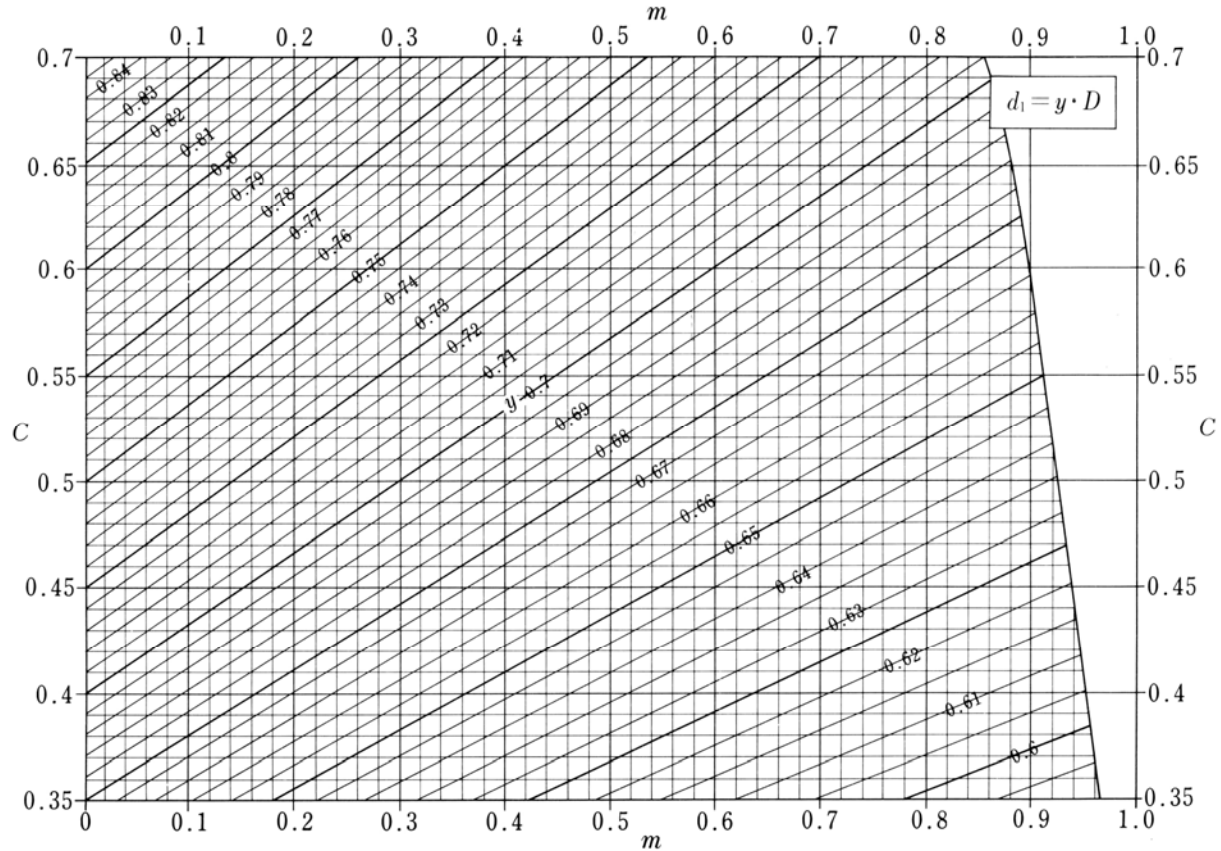
$$\Phi = \arccos \frac{2R_0(h_1 - h_2)d}{p^3}$$

diagramma per la determinazione del punto di riflessione (1)



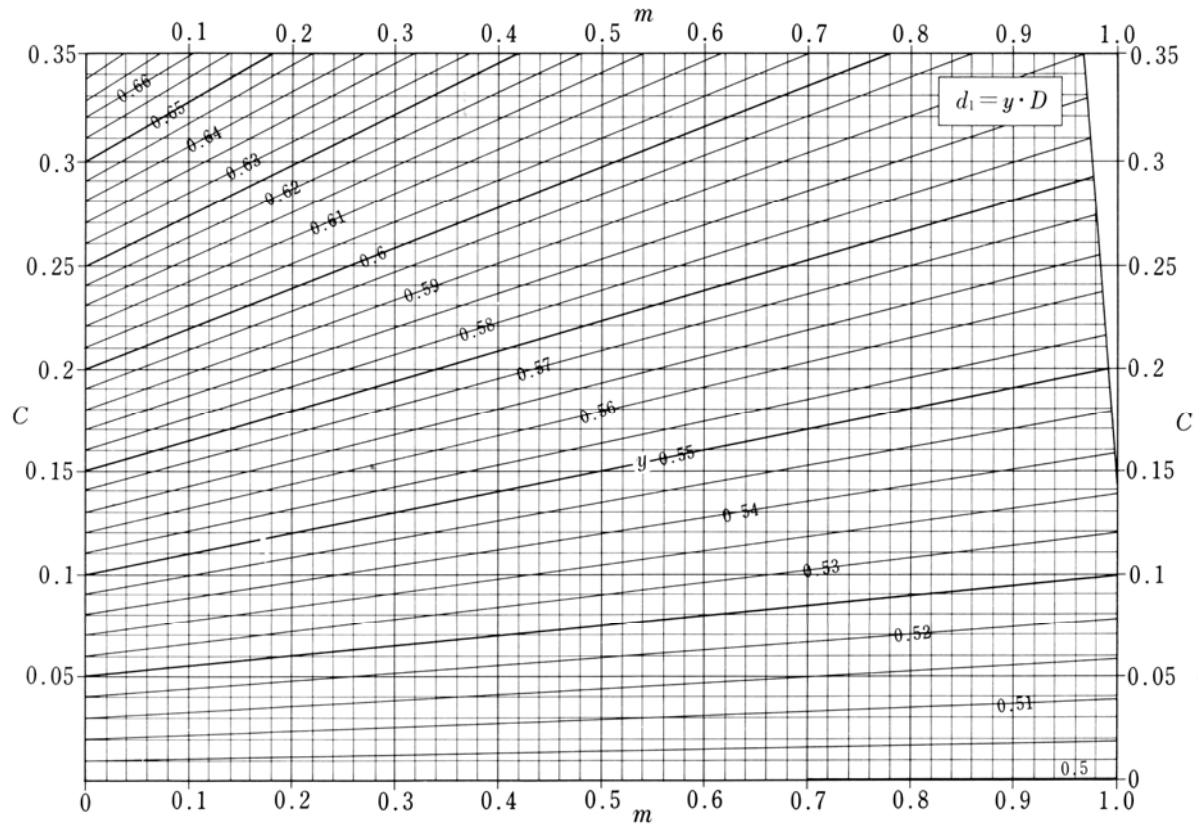
$$C = \frac{h_1 - h_2}{h_1 + h_2} \quad m = \frac{D^2}{4k R_0 (h_1 + h_2)} \quad (h_1 > h_2)$$

diagramma per la determinazione del punto di riflessione (2)



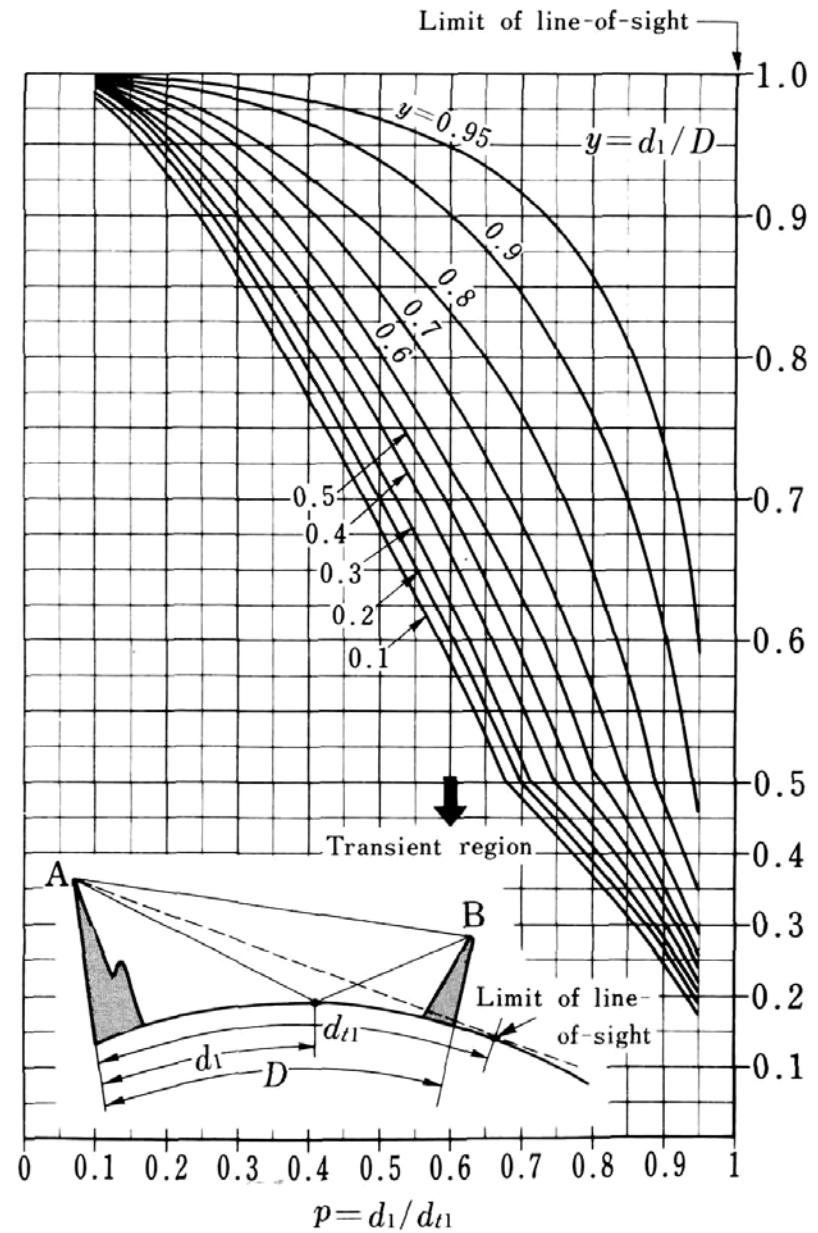
$$C = \frac{h_1 - h_2}{h_1 + h_2} \quad m = \frac{D^2}{4k R_0 (h_1 + h_2)} \quad (h_1 > h_2)$$

diagramma per la determinazione del punto di riflessione (3)

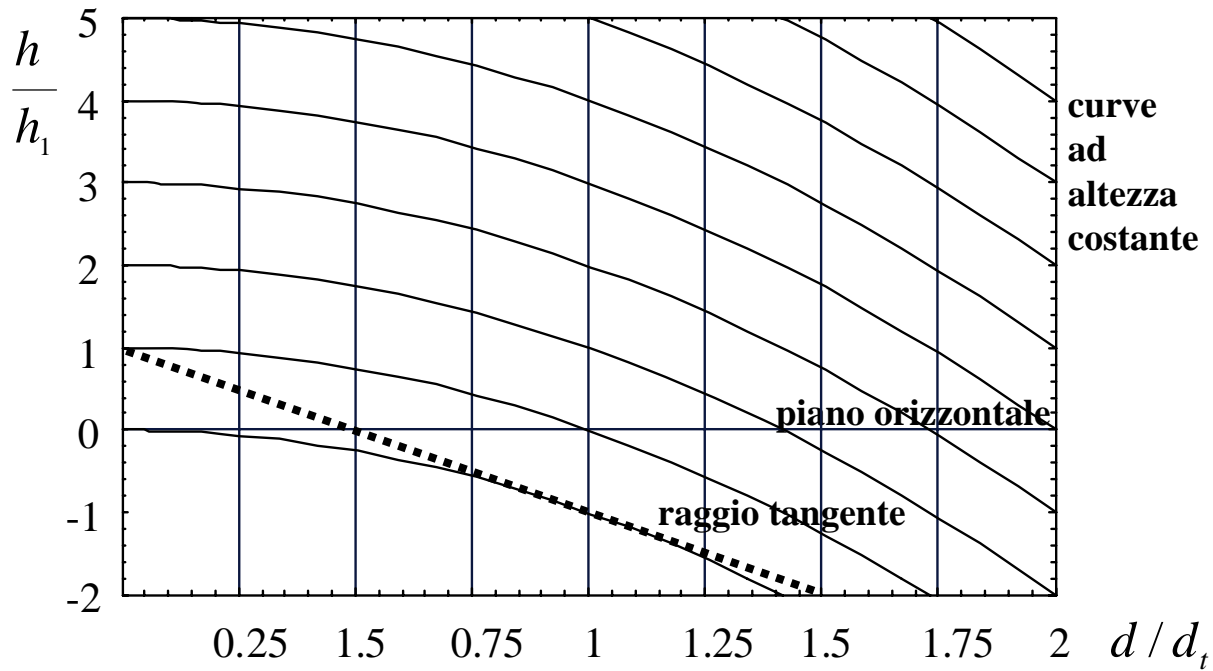


$$C = \frac{h_1 - h_2}{h_1 + h_2} \quad m = \frac{D^2}{4k R_0 (h_1 + h_2)} \quad (h_1 > h_2)$$

Fattore di divergenza per riflessione



Abbassamenti rispetto al piano orizzontale



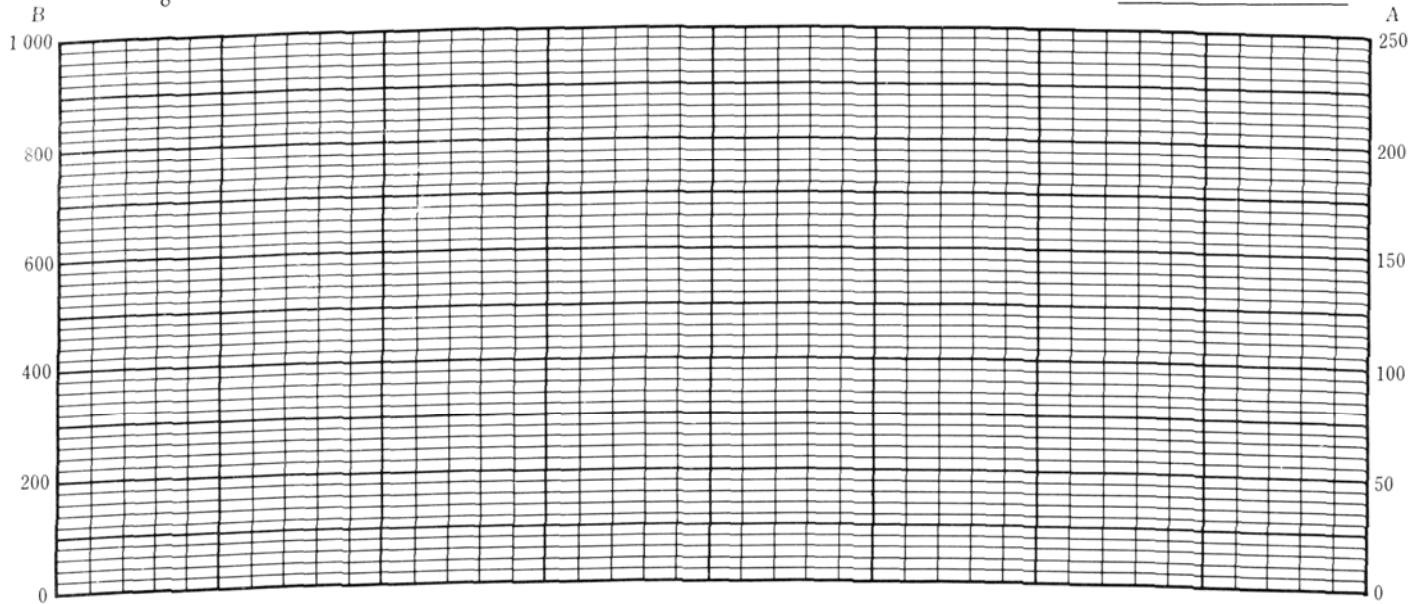
$$y = h \left(1 - \frac{x^2}{d_t^2} \right) \quad \text{altezza efficace}$$

$$d_t = \sqrt{2 h R_{eq}} \quad \text{distanza dell'orizzonte radio}$$

Profilo di tratta (1)

Map. 1/

Project : _____



$K=4/3$

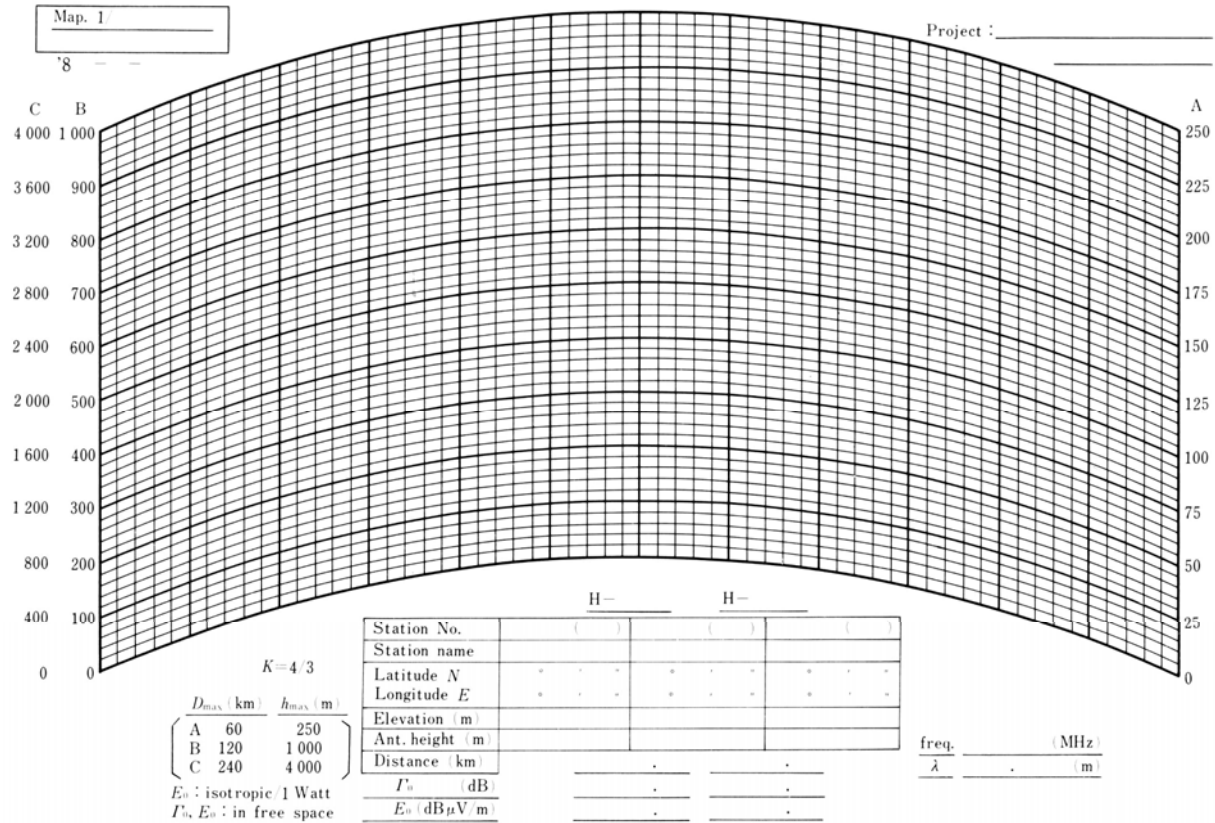
	D_{max} (km)	h_{max} (m)
A	20	250
B	40	1000
C	80	4000

E_0 : isotropic / 1 Watt
 I_0, E_0 : in free space

	H-	H-
Station No.	()	()
Station name		
Latitude N
Longitude E
Elevation (m)		
Ant. height (m)		
Distance (km)		
I_0 (dB)		
E_0 (dB μ V/m)		

freq. _____ (MHz)
 λ _____ m

Profilo di tratta (2)

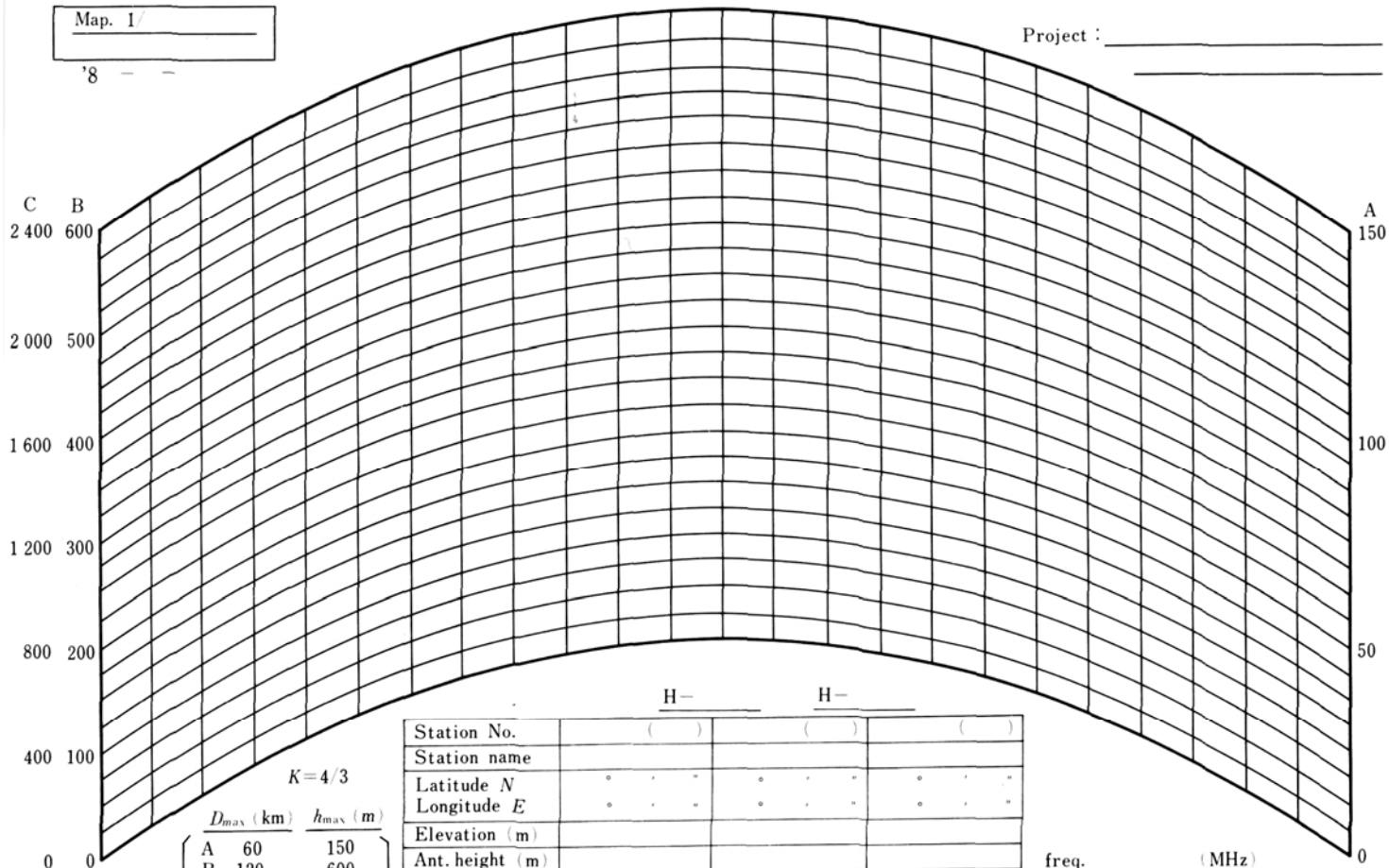


Profilo di tratta (3)

Map. 1/

'8

Project : _____



$K=4/3$

	D_{max} (km)	h_{max} (m)
A	60	150
B	120	600
C	240	2400

E_0 : isotropic / 1 Watt
 I_0, E_0 : in free space

H- H-

Station No.	()	()	()
Station name			
Latitude N	° ' "	° ' "	° ' "
Longitude E	° ' "	° ' "	° ' "
Elevation (m)			
Ant. height (m)			
Distance (km)			

freq. _____ (MHz)
 λ . _____ (m)

I_0 (dB)	_____	_____	_____
E_0 (dB μ V/m)	_____	_____	_____