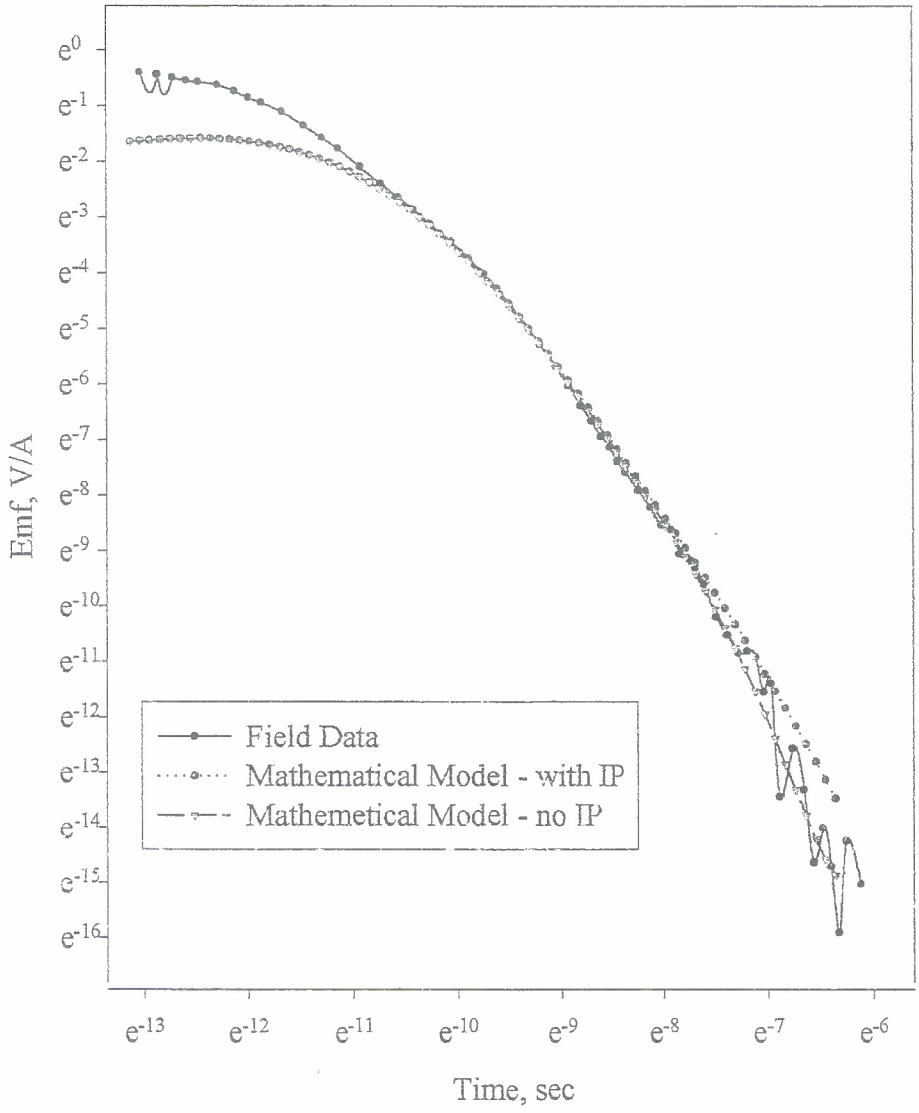
TDEM 11

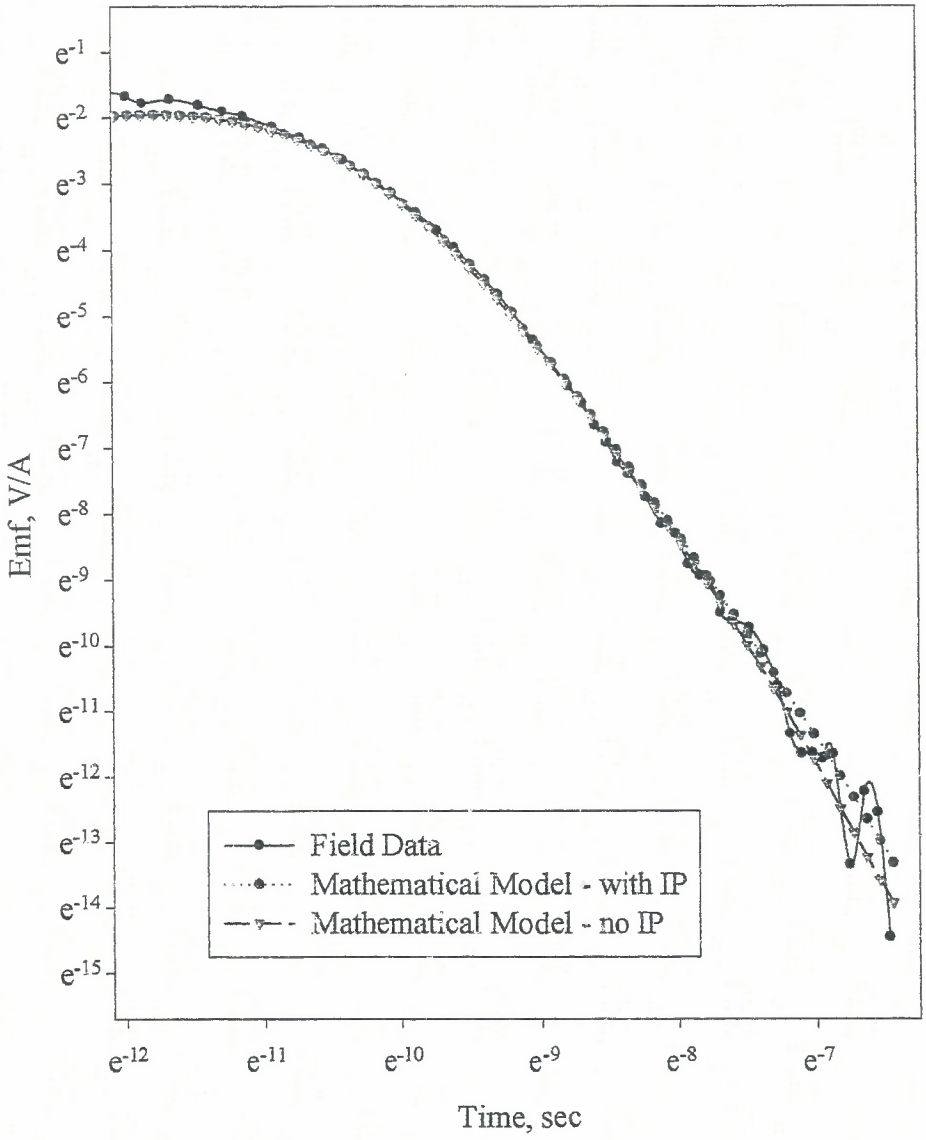


Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	29.3	24	-	-
2	21	10	0.05	4
3	50	10	0.47	13
4	85	82	-	-

Fig. 9 Comparison of field data with mathematical modeling for station no 11

TDEM 13

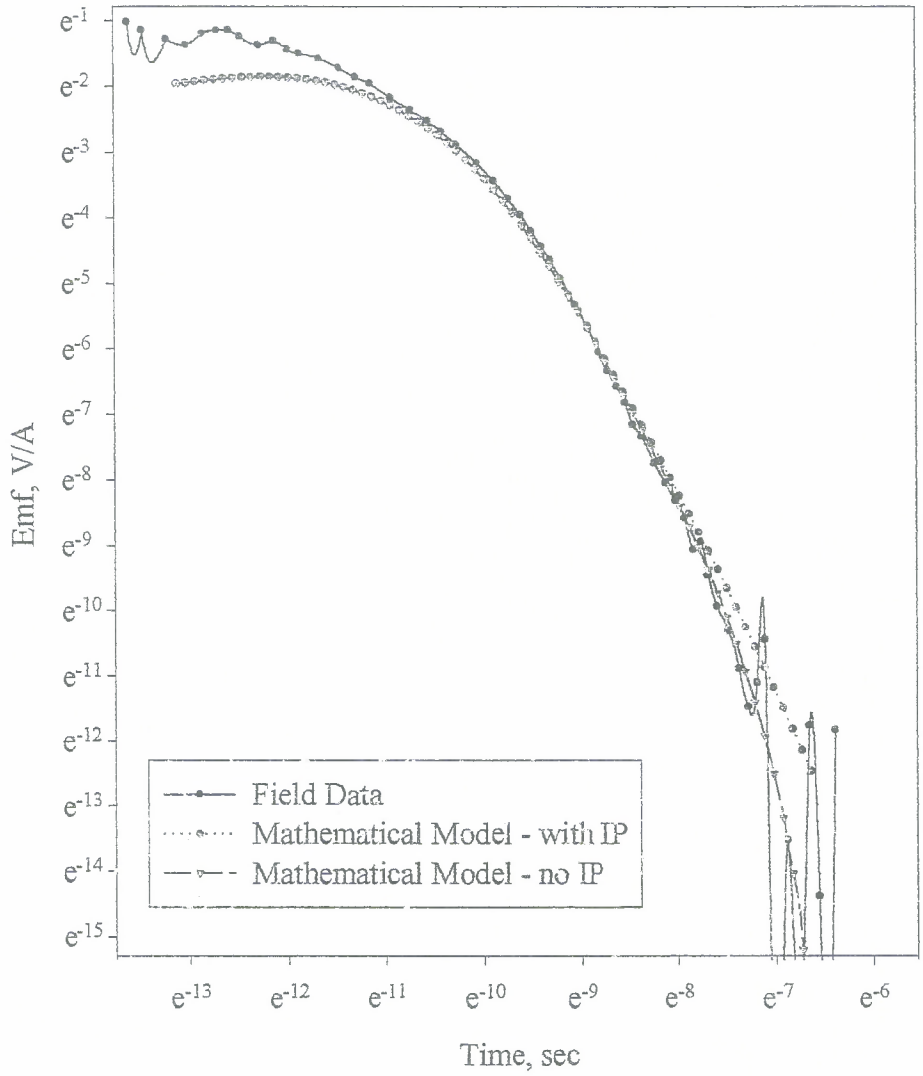


Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	22.3	24	-	-
2	26	19	0.05	4
3	51	6	0.48	15
4	115	82	-	-

Fig. 10 Comparison of field data with mathematical modeling for station no 13

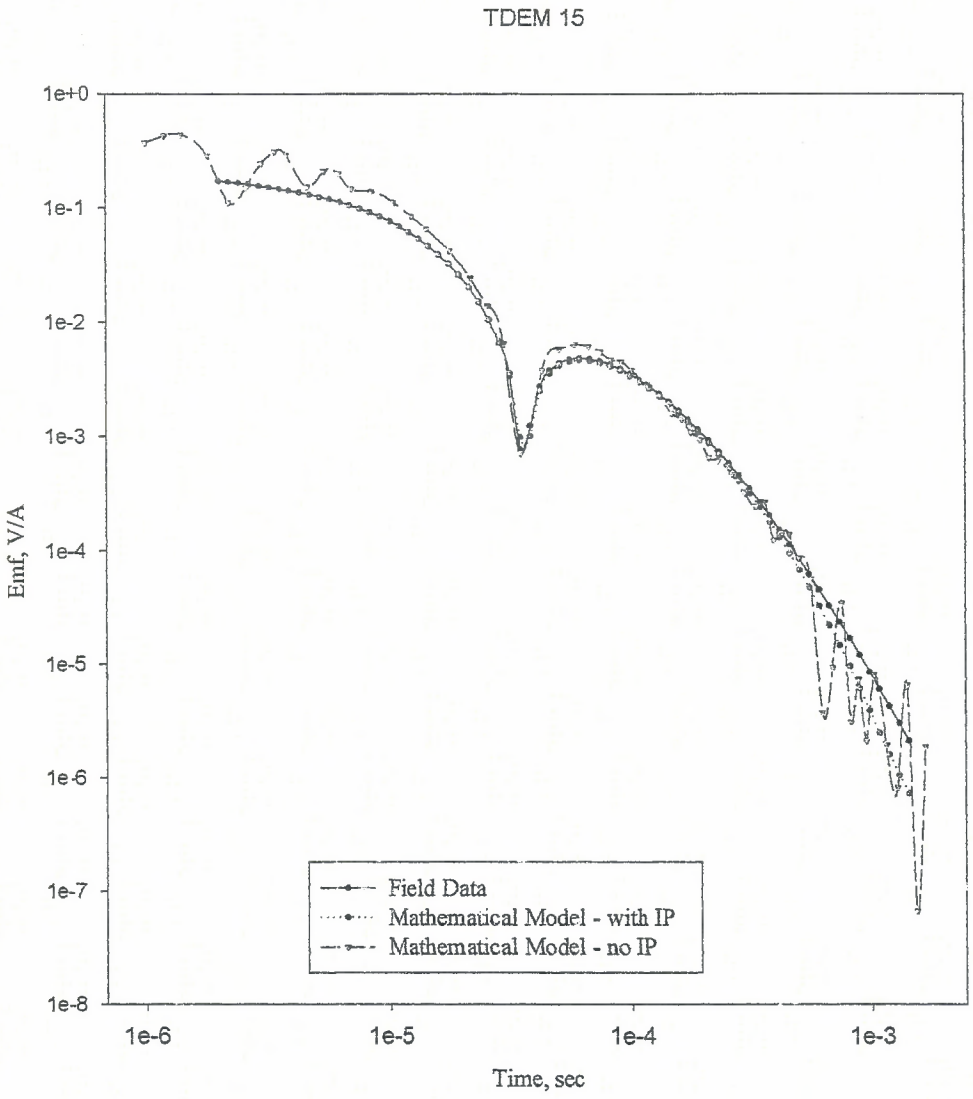
TDEM 14



Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	21.3	24	-	-
2	24	19	0.05	4
3	51	6	0.51	22
4	115	82	-	-

Fig. 11 Comparison of field data with mathematical modeling for station no 14

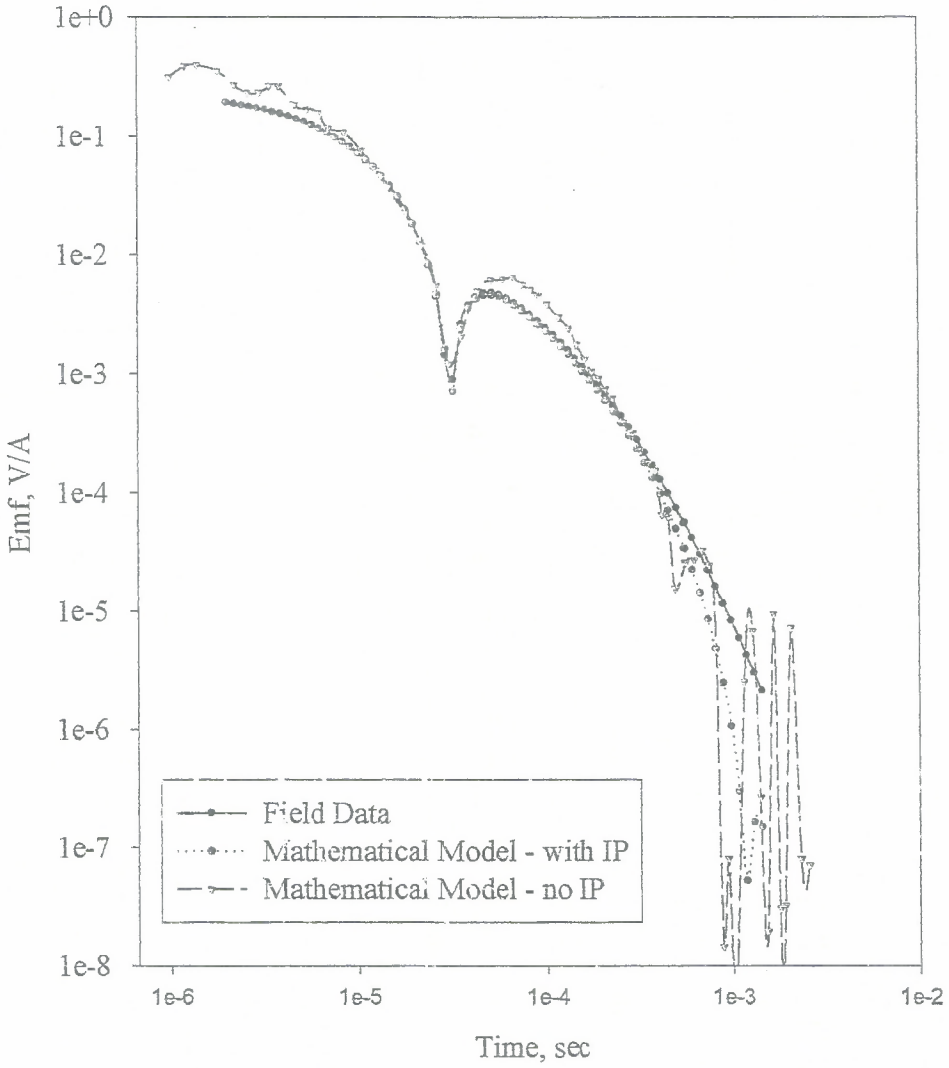


Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	22	25	-	-
2	26	20	0.05	4
3	51	2	0.42	11-12

Fig. 12 Comparison of field data with mathematical modeling for station no 15

TDEM 16

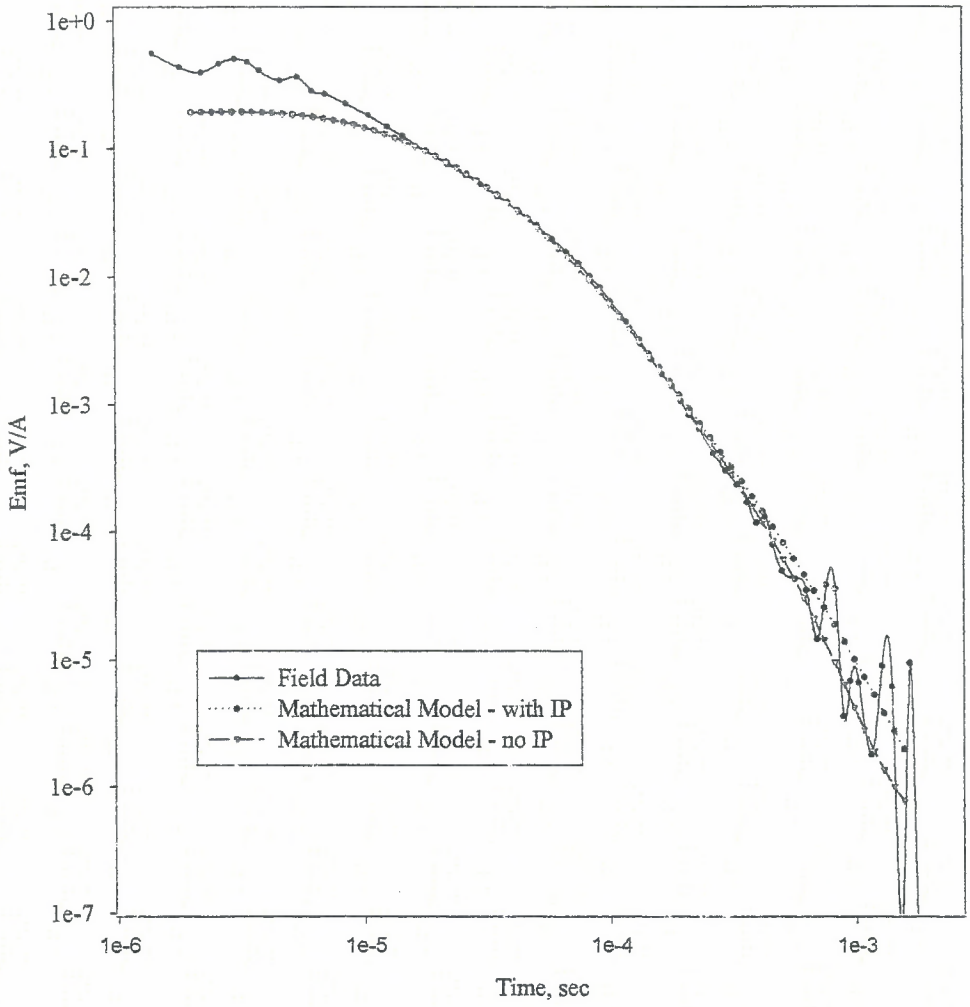


Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	24	24	-	-
2	26	25	0.05	4
3	50	2	0.48	22

Fig. 13 Comparison of field data with mathematical modeling for station no 16

TDEM 17

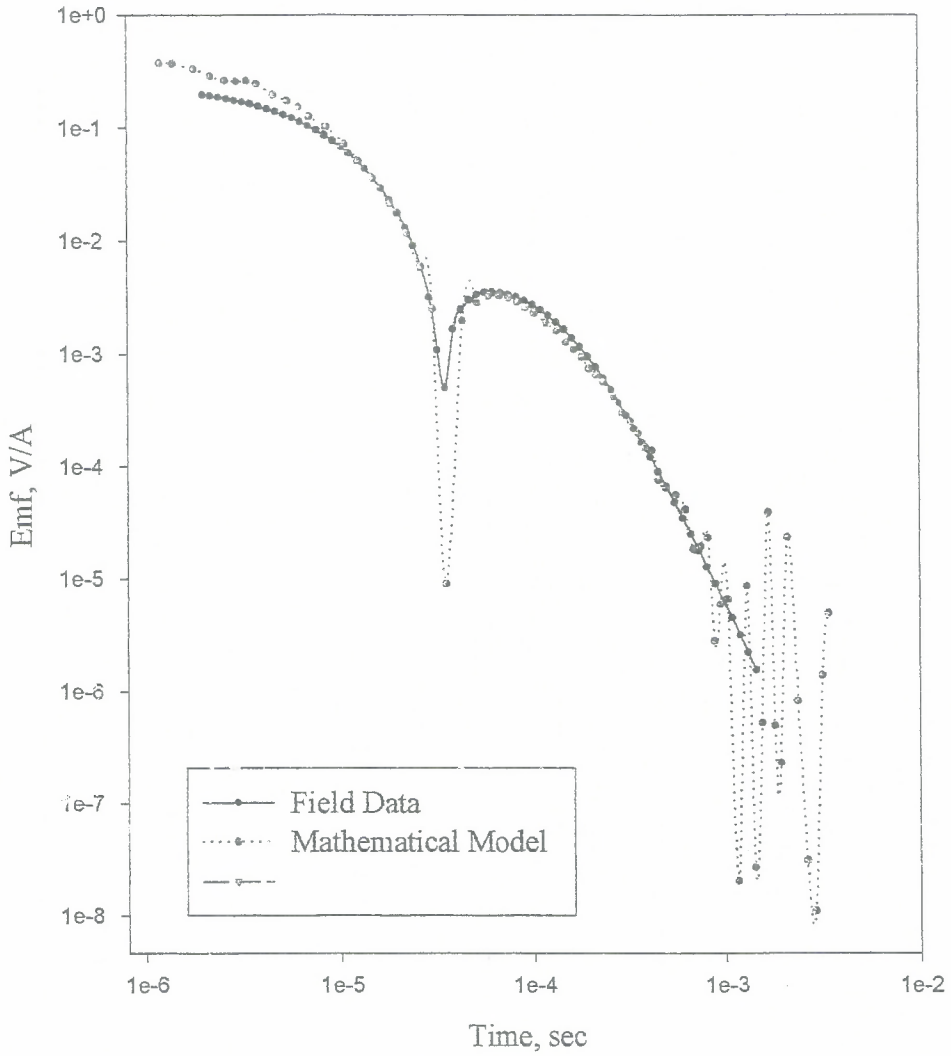


Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	22	24	-	-
2	24	21	0.05	4
3	50	6	0.46	21
4	105	82	-	-

Fig. 14 Comparison of field data with mathematical modeling for station no 17

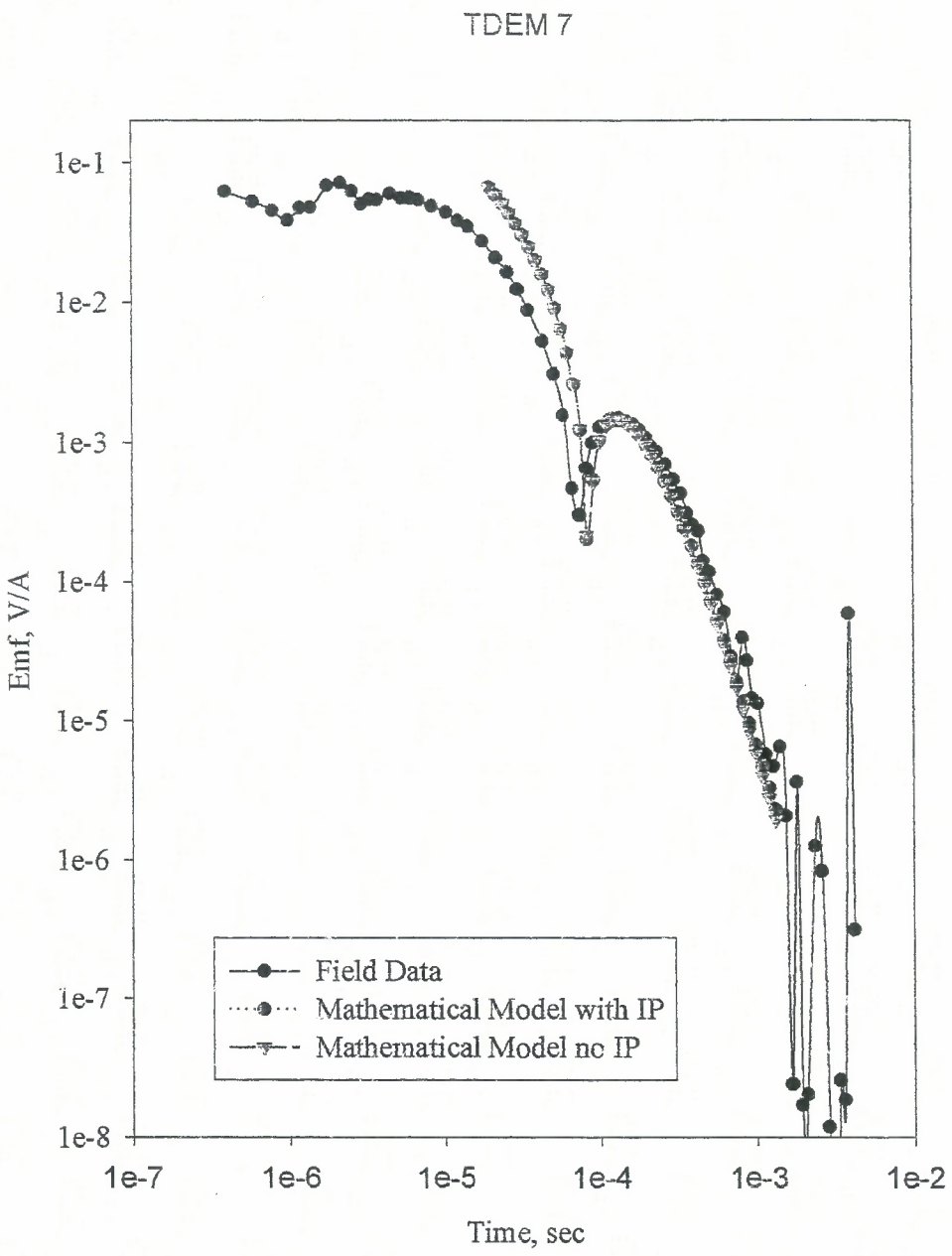
TDEM 8



Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	23	24	-	-
2	26	15	0.05	4
3	50	6	0.38	4?

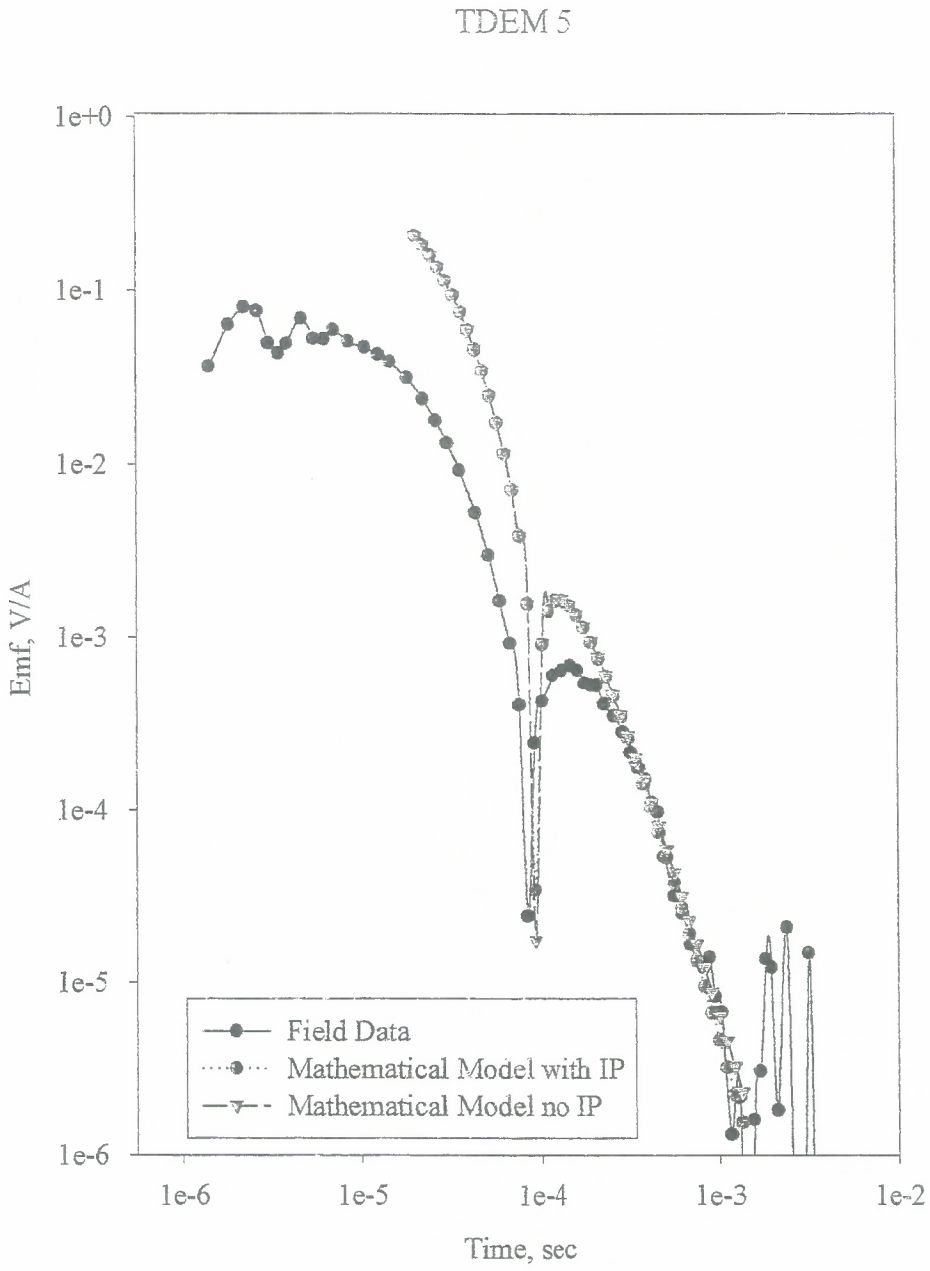
Fig. 15 Comparison of field data with mathematical modeling for station no 8



Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	24	0.5	-	-
2	14	21	-	-
3	18	36	-	-
4	30	16	-	-

Fig.16 Comparison of field data with mathematical modeling for station no 7

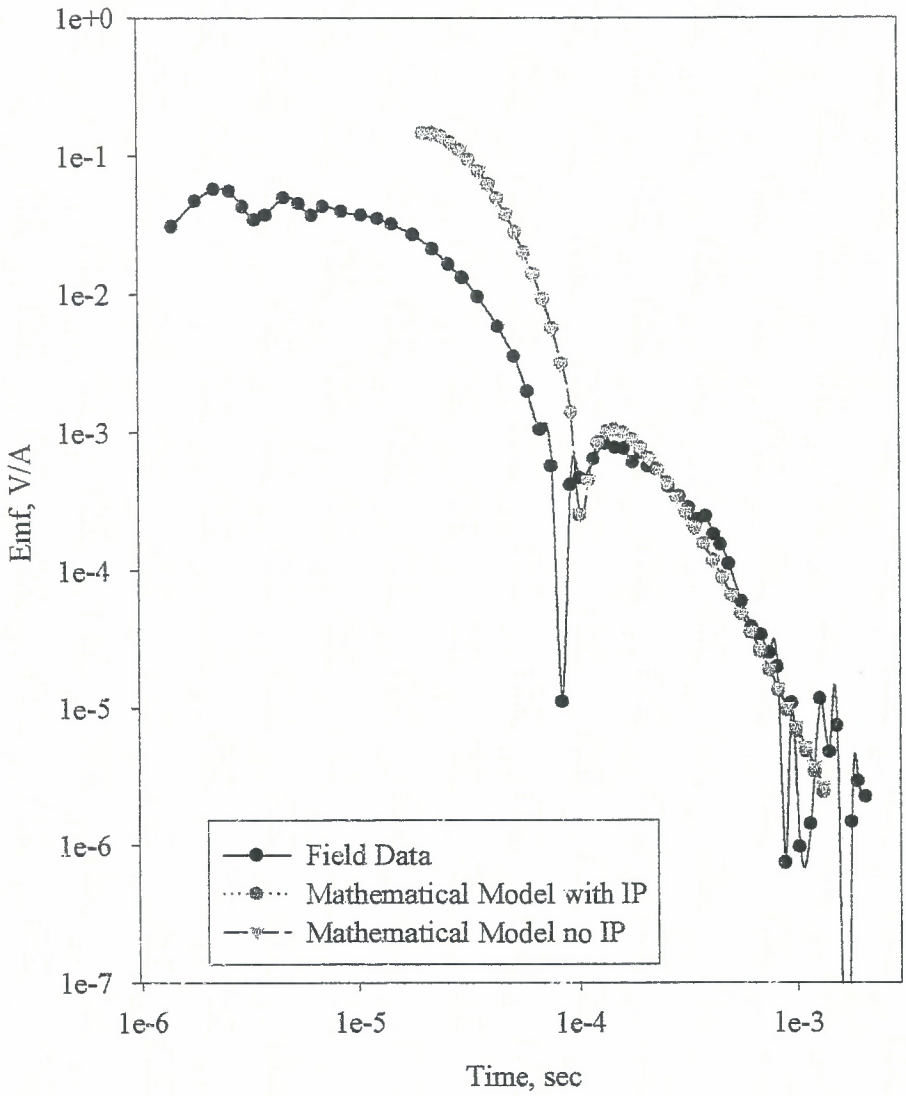


Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	34	1	-	-
2	15	17	-	-
3	18	2	-	-
4	36	10	-	-

Fig. 17 Comparison of field data with mathematical modeling for staion no 5

TDEM 6



Parameters of cross-section

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	34	1	-	-
2	25	17	-	-
3	18	3	-	-
4	20	5	-	-
5	115	82	-	-

Fig. 18 Comparison of field data with mathematical modeling for station no 6

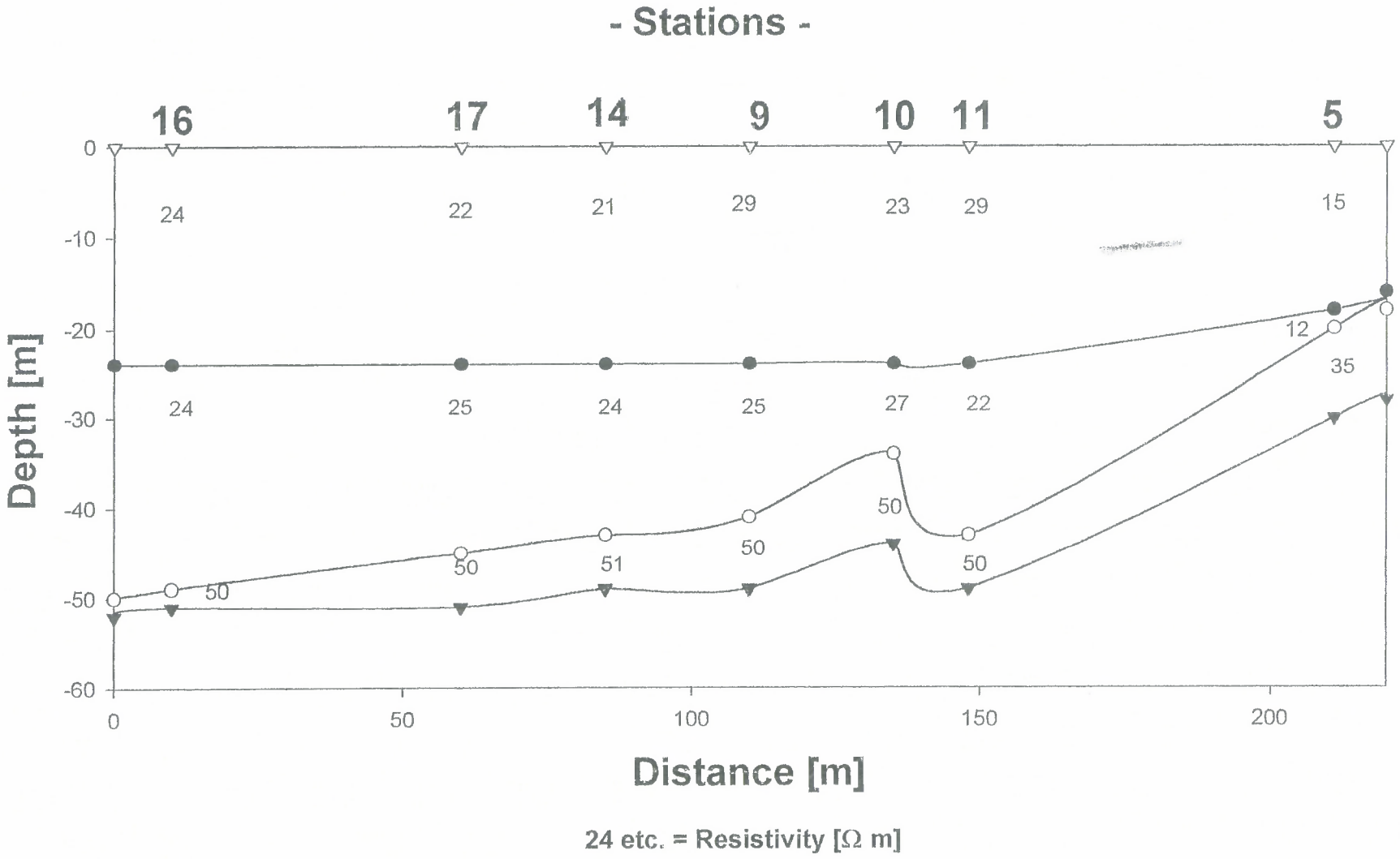


Fig. 19 Geoelectrical cross section showing the distribution of resistivity values for the stations of area 1

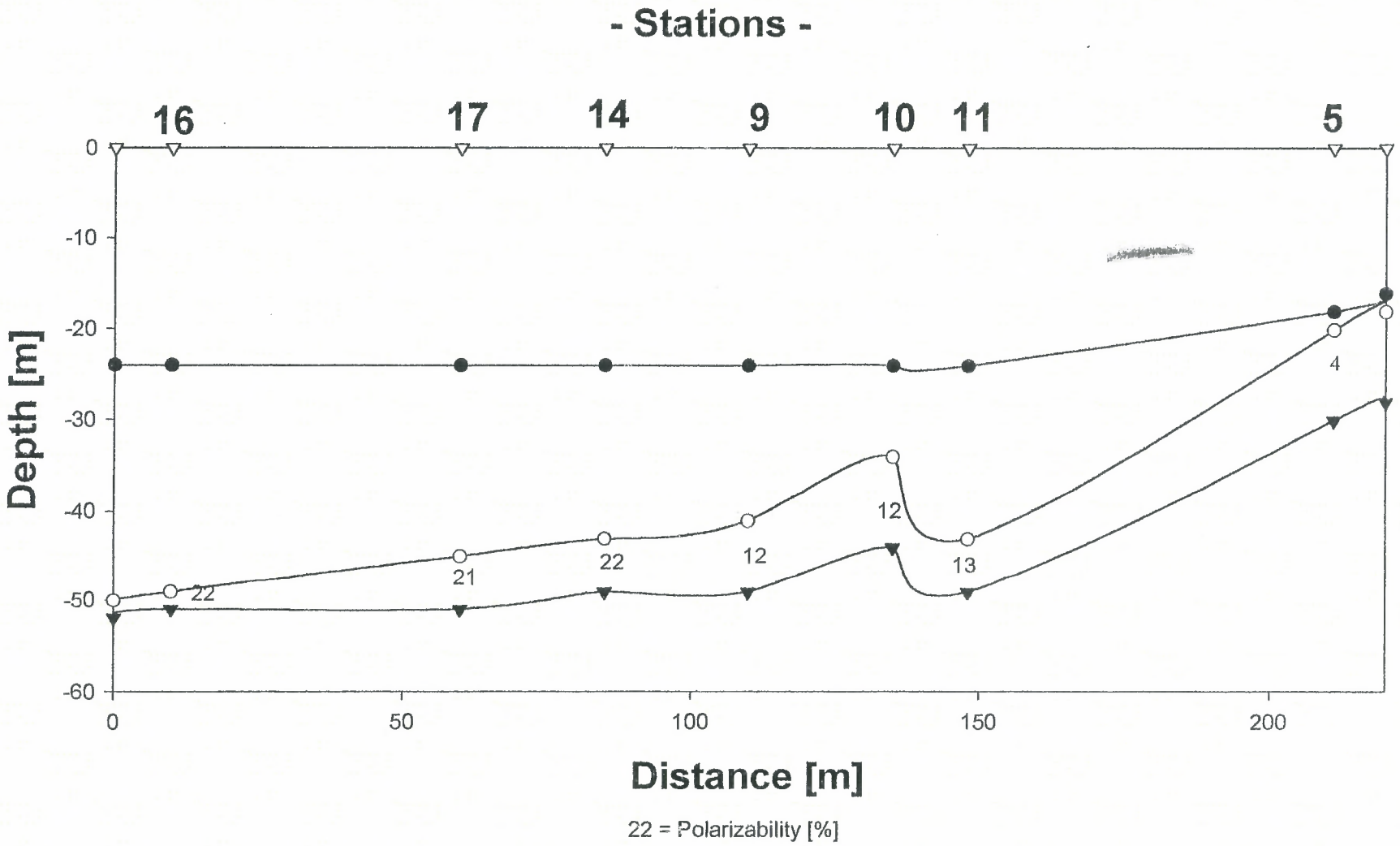


Fig. 19 a Geoelectrical cross section showing the distribution of polarizability values for the stations of area 1. Highest polarizability is correlated to high hydrocarbon pollution

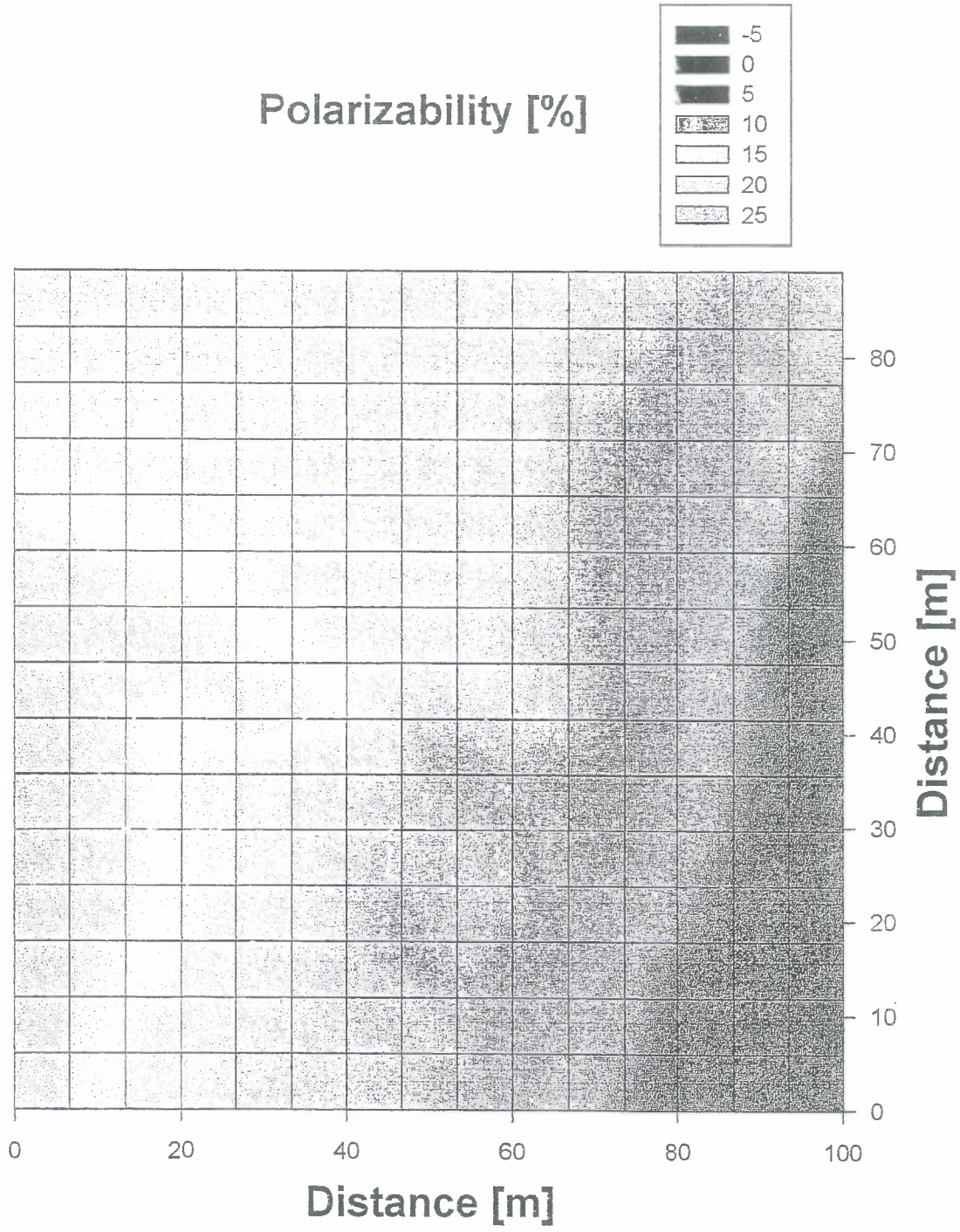
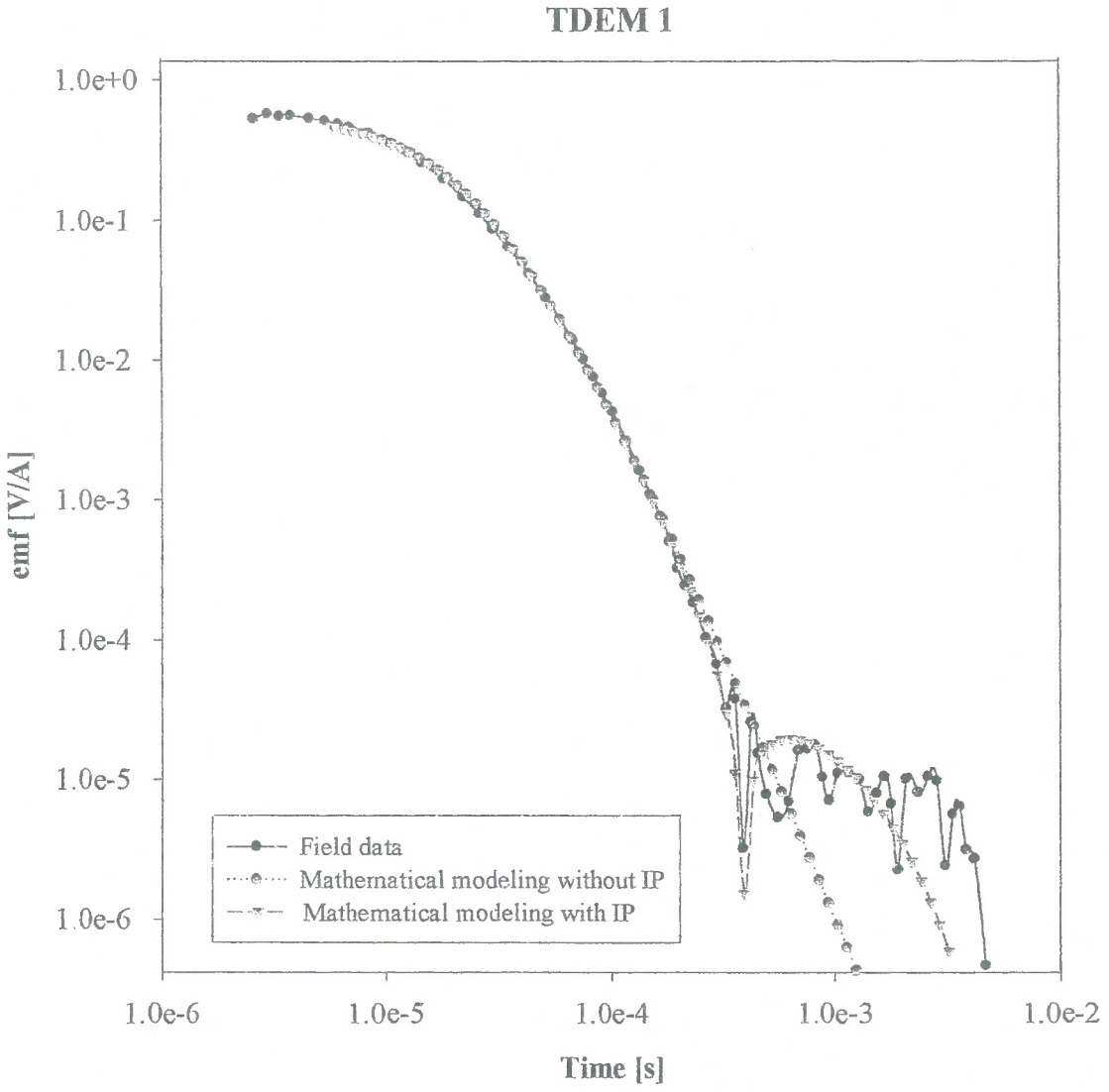


Fig. 20 Contoured plan of area 1 showing the changes in polarizability (hydrocarbon content) across the area

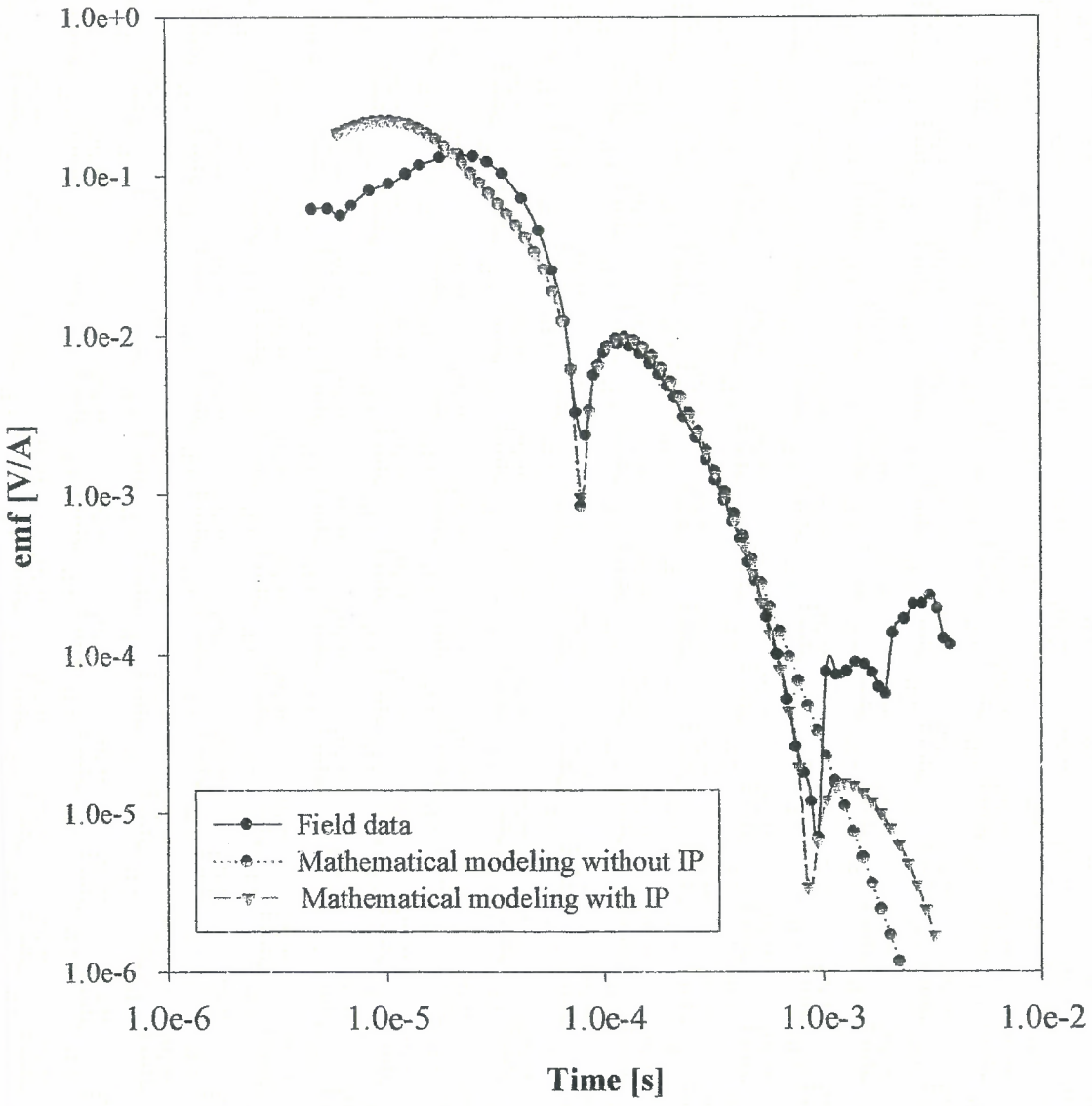
LARGER TDEM SURVEY RESULTS



TDEM 1

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10	13	-	-
2	33	9	-	-
3	48	6	0.8	15

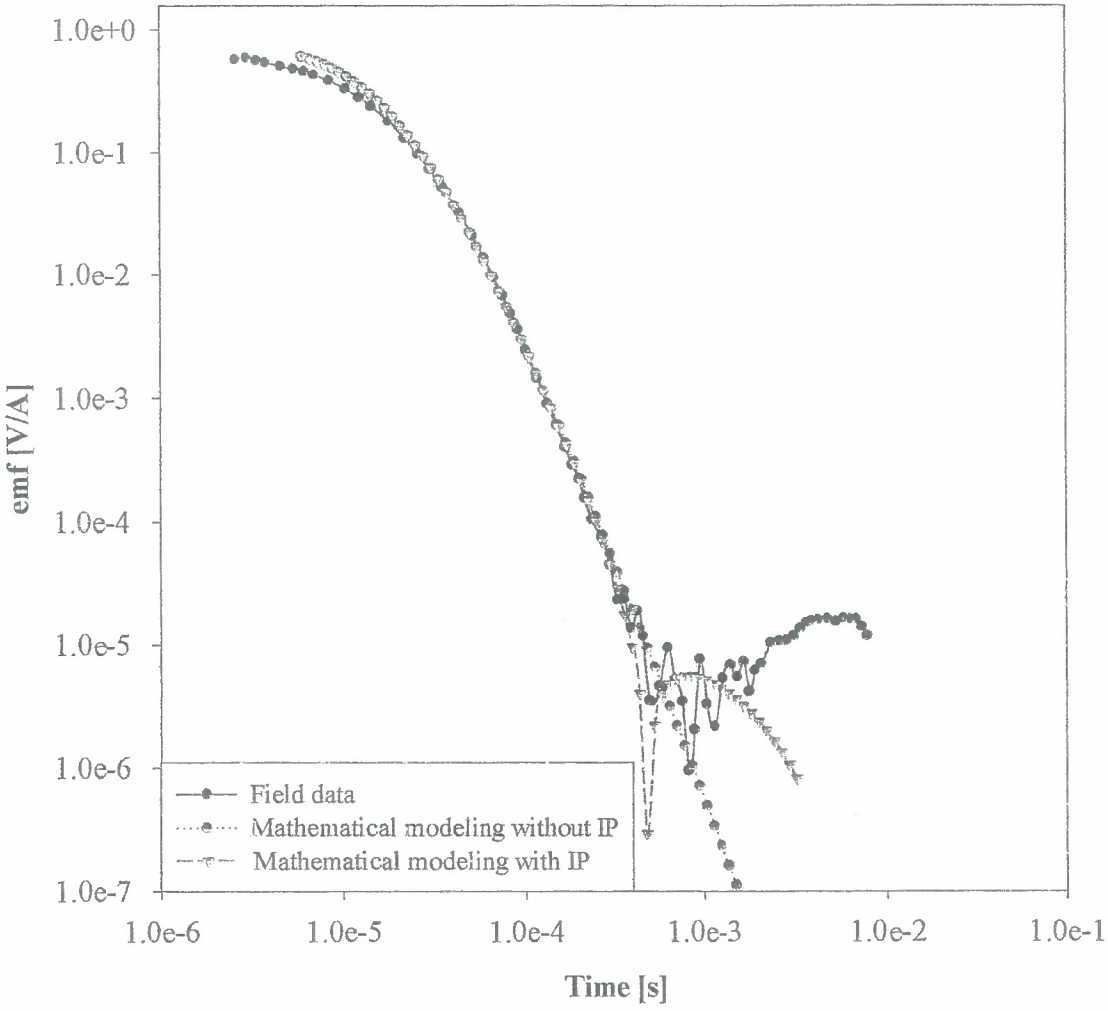
TDEM 2



TDEM 2

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	15	12	-	-
2	33	9	0.8	5

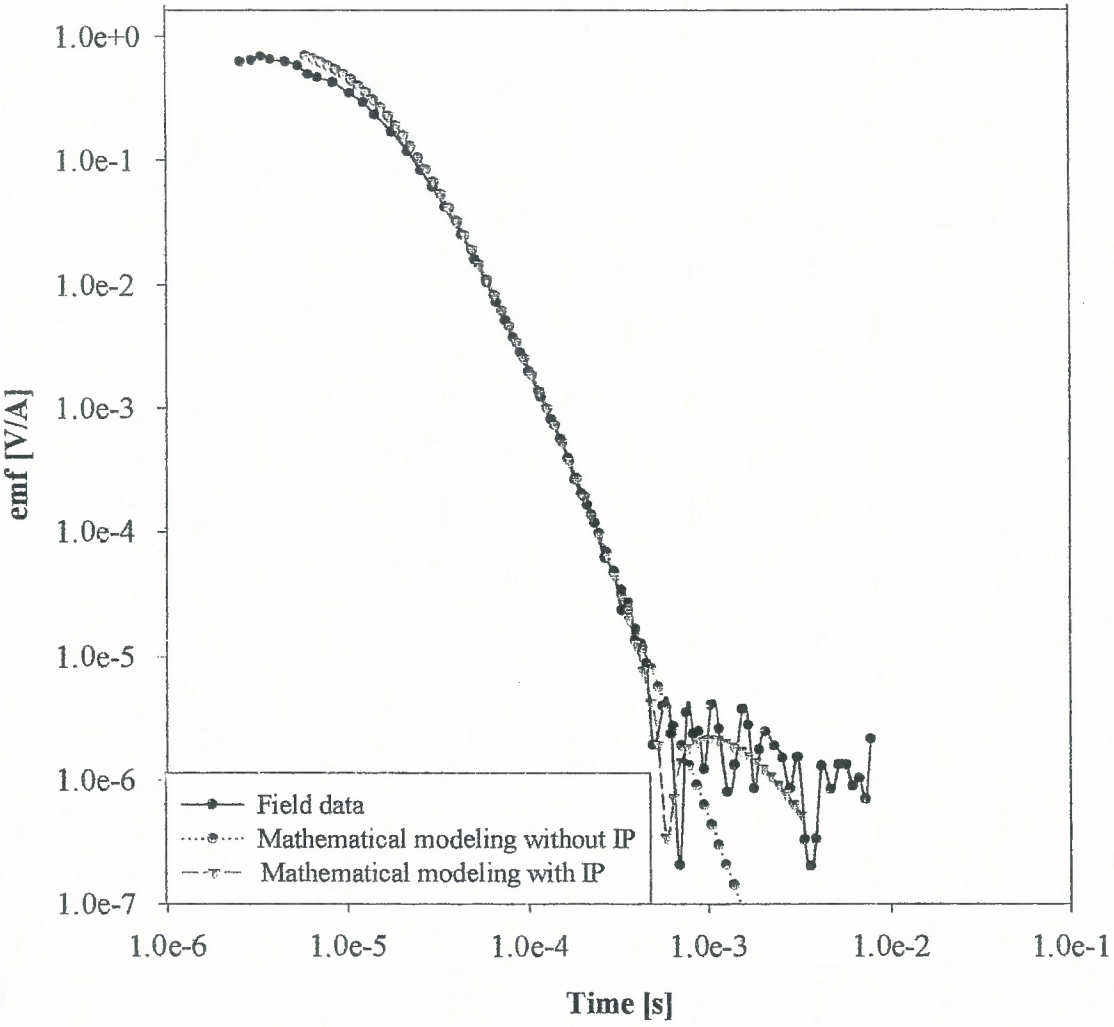
TDEM 3



TDEM 3

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	11.5	11	-	-
2	33	9	-	-
3	48	7	1.2	4

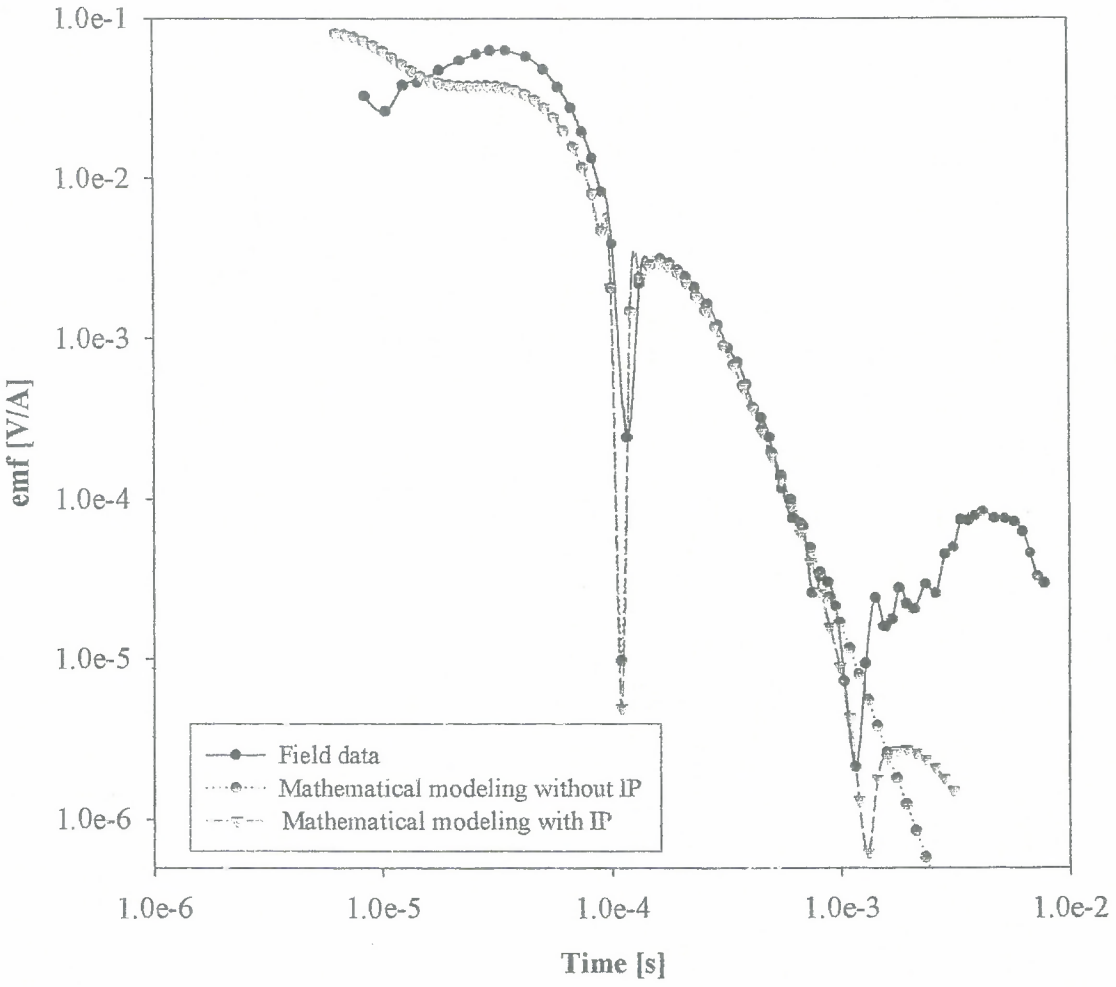
TDEM 4



TDEM 4

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	12	10	-	-
2	33	9	-	-
3	48	10	1.2-1.4	3

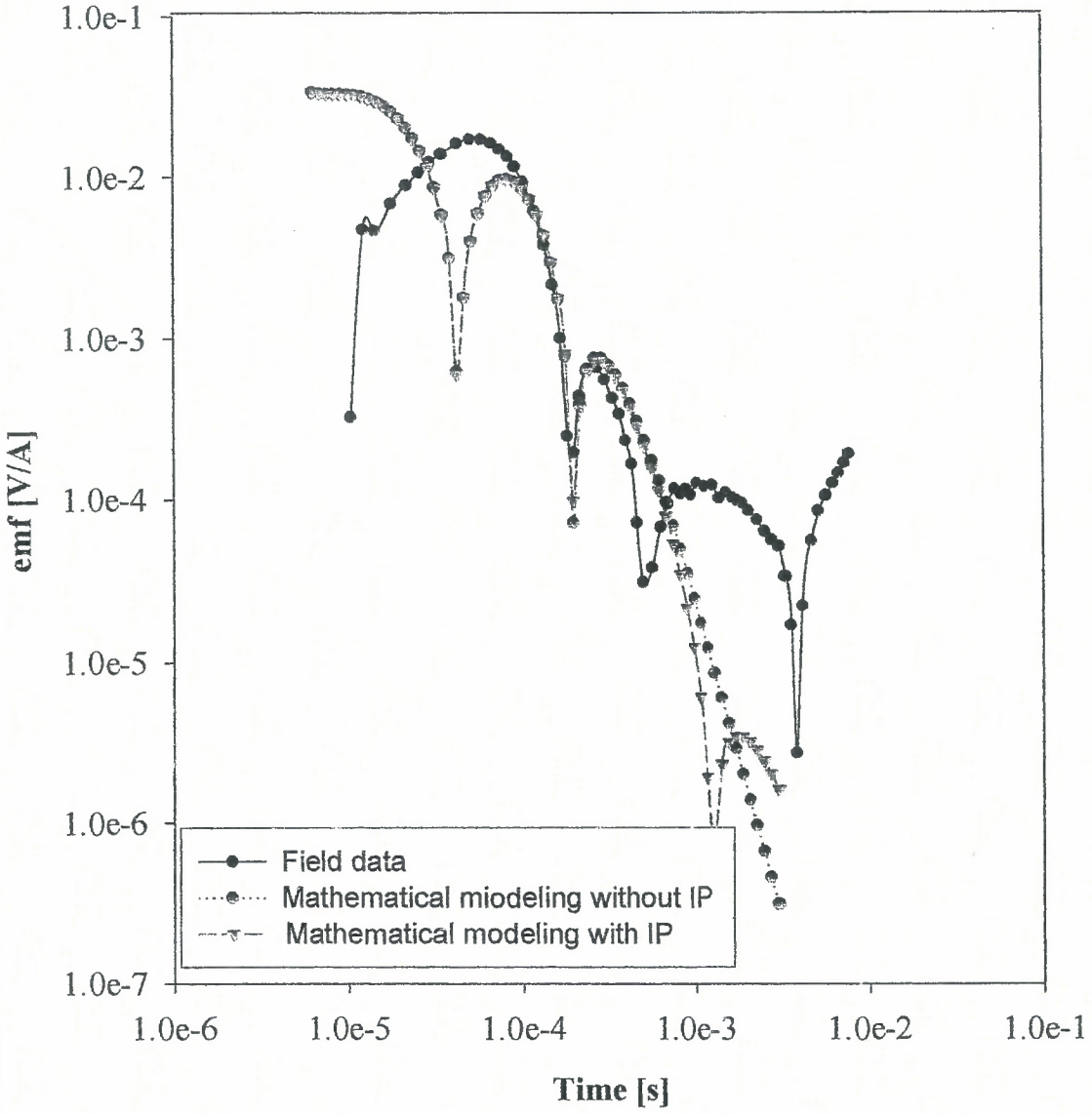
TDEM 5



TDEM 5

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	8	8.5	-	-
2	33	4	1.2	3

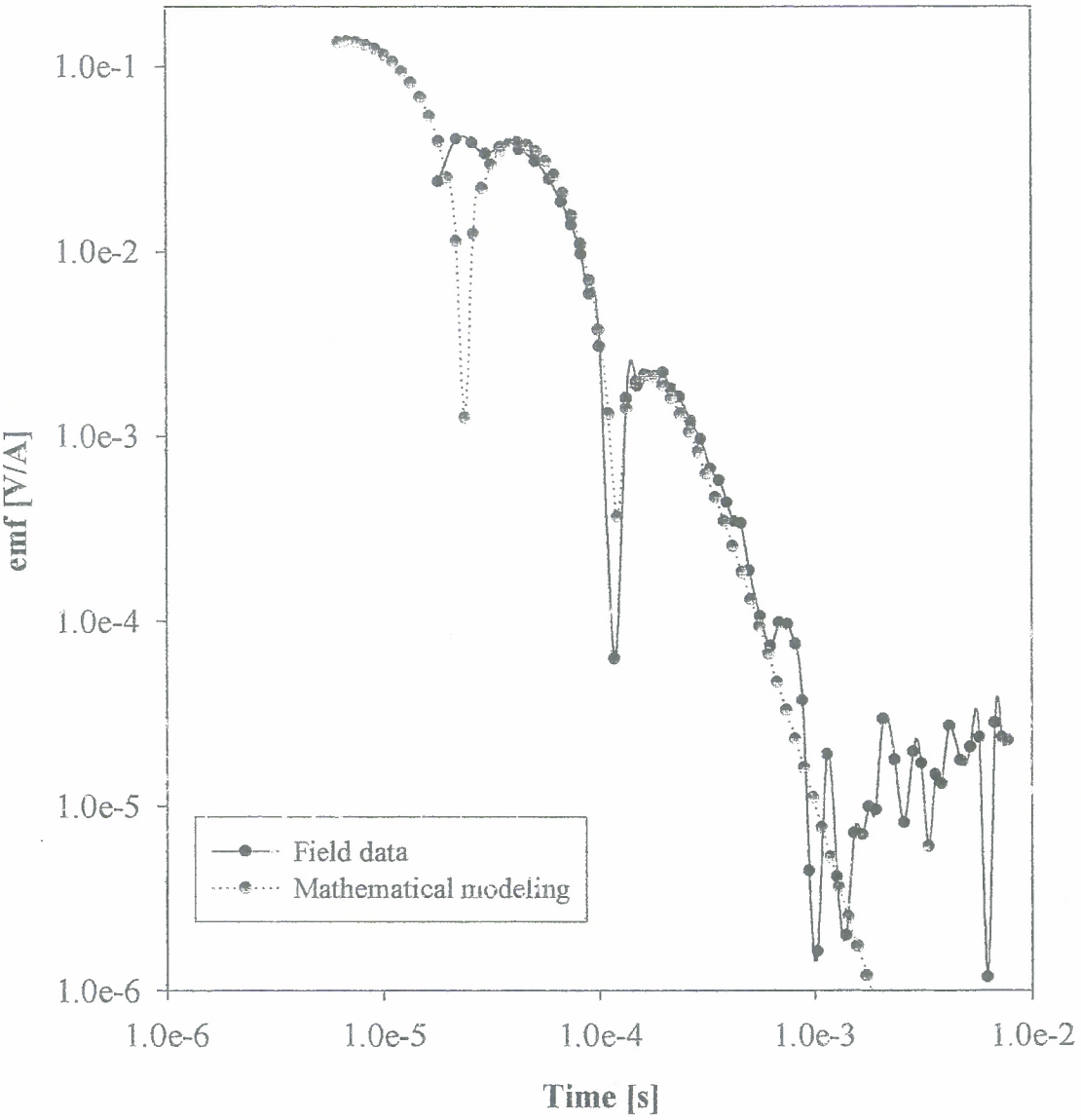
TDEM 6



TEM 6 distorton?

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	6	4.5	-	-
2	33	4	1.4	10
3	43	1	1.2	15
4	40	28	-	

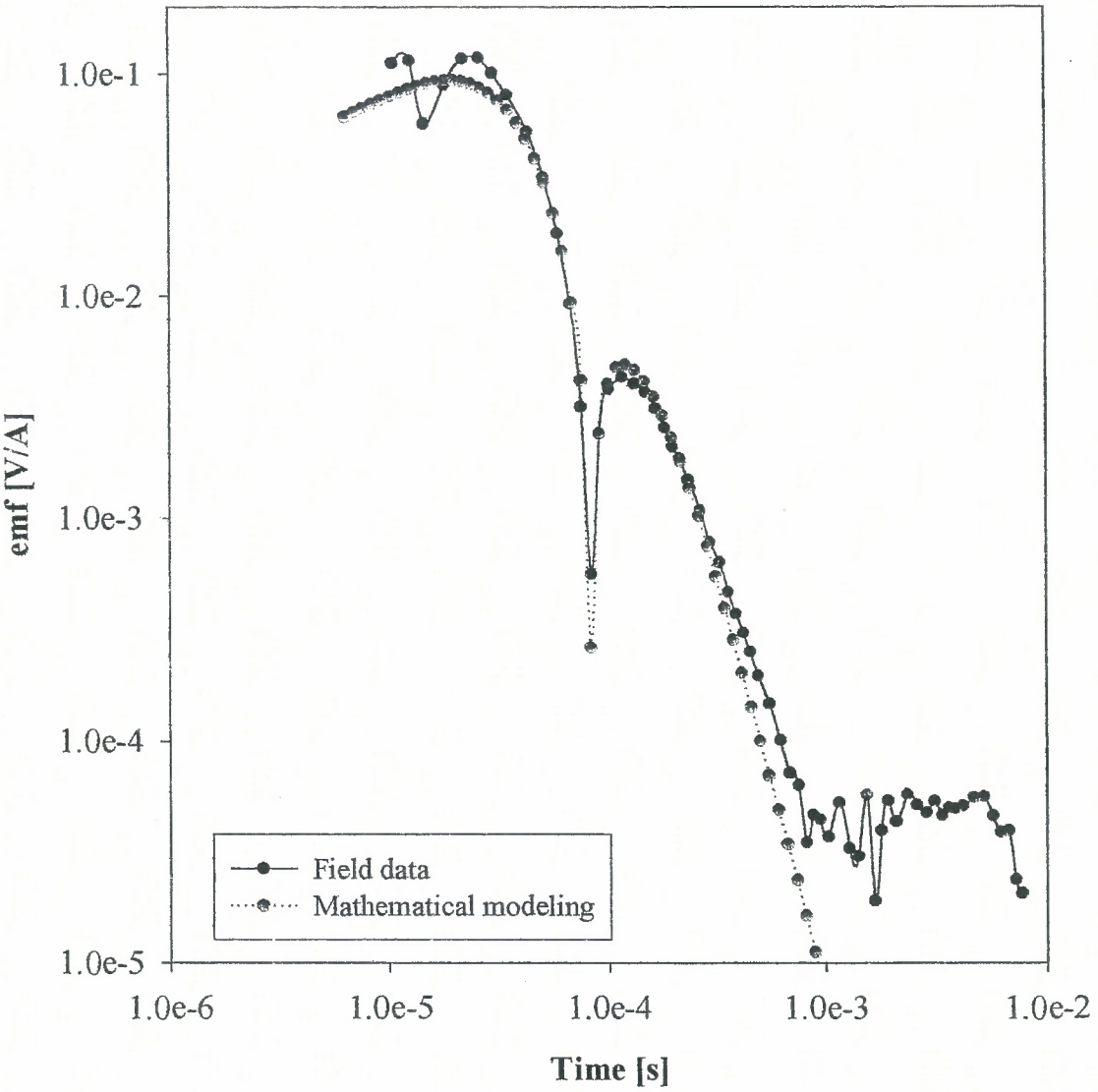
TDEM 7



TDEM 7

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	9.6	3.4	-	-
2	33	4	-	-
3	43	2	-	-
4	40	28	-	

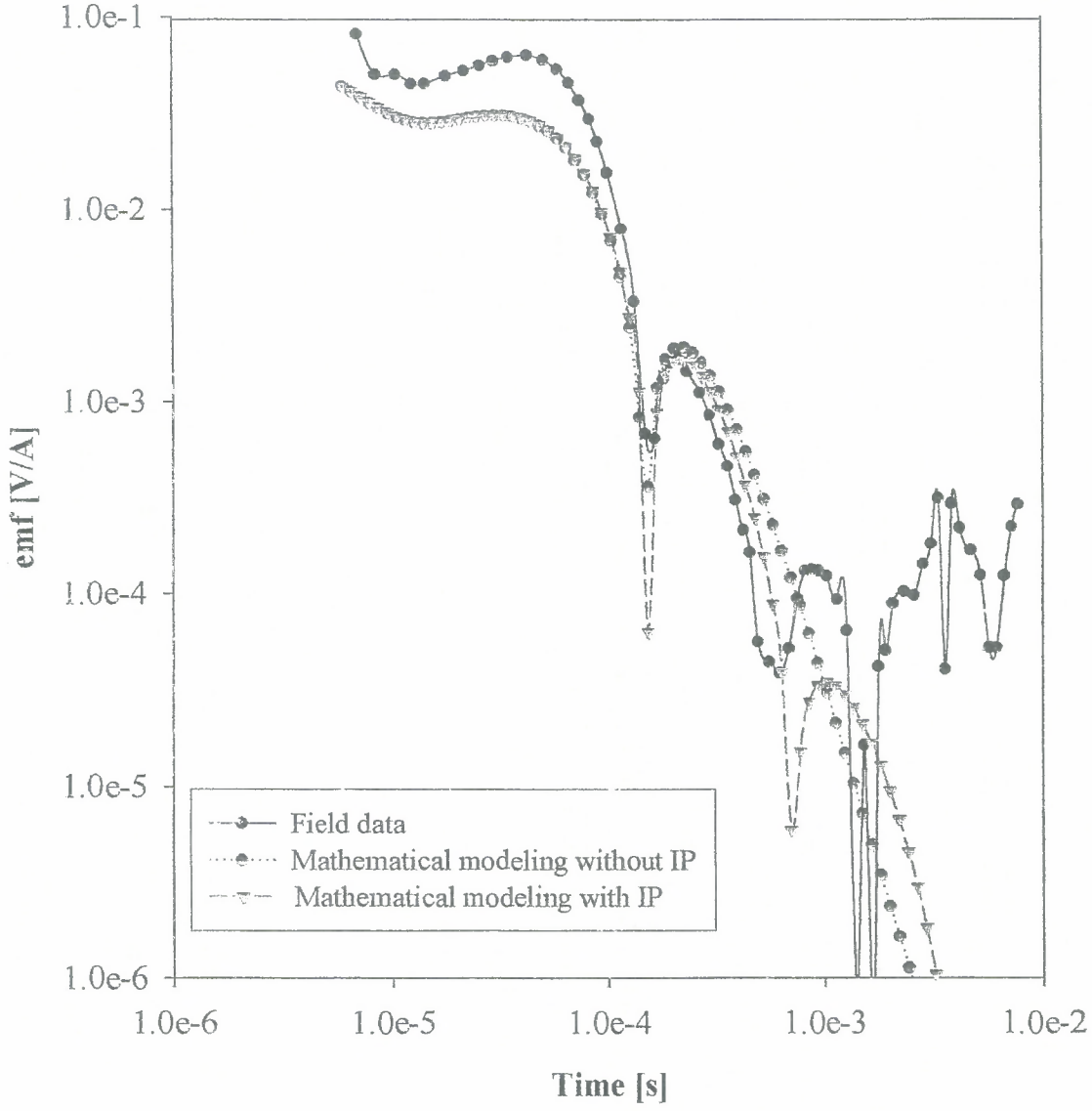
TDEM 8



TDEM 8

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10	8	-	-

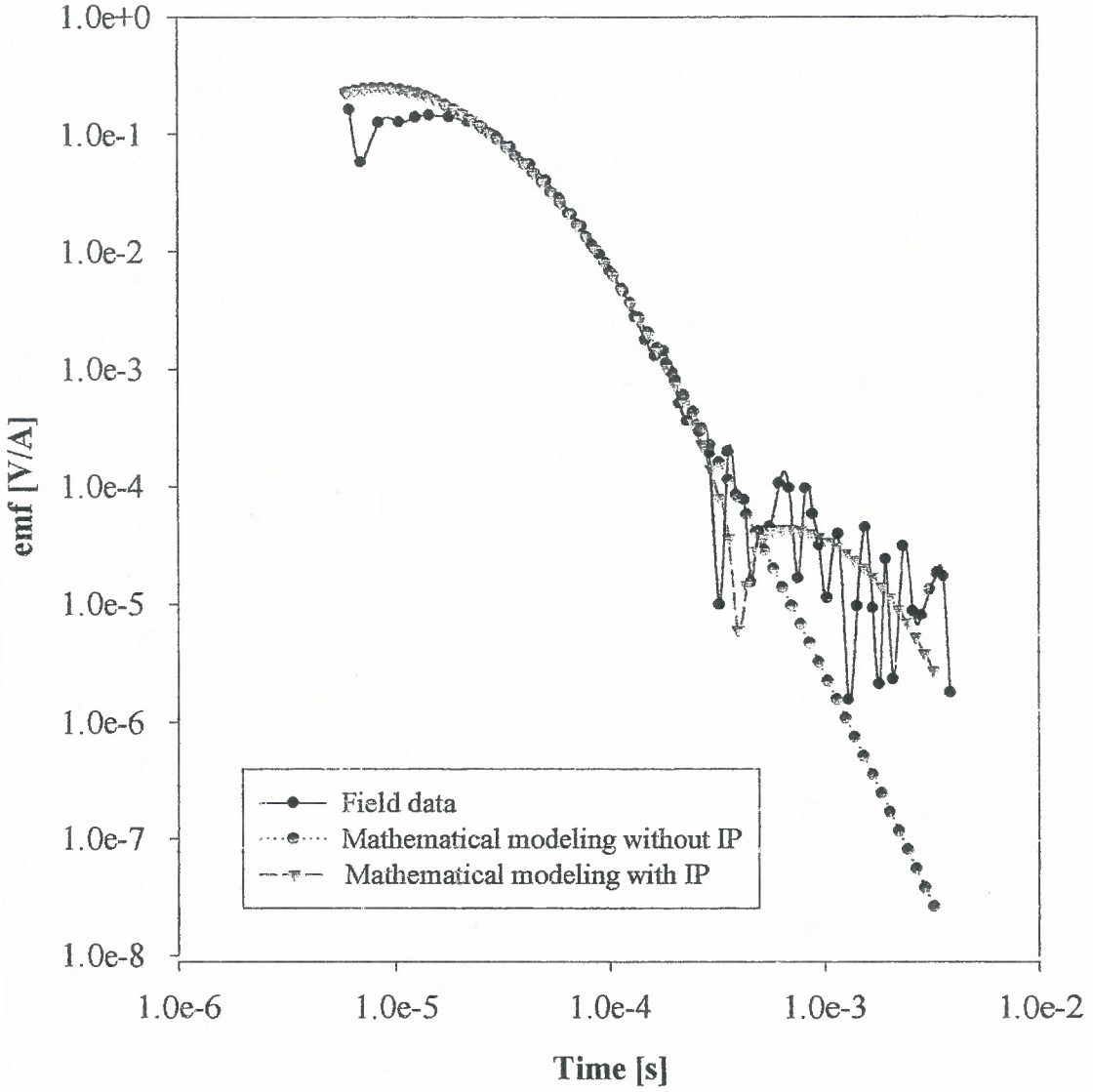
TDEM 9



TDEM 9

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10.5	16	-	-
2	43	3	0.7	25

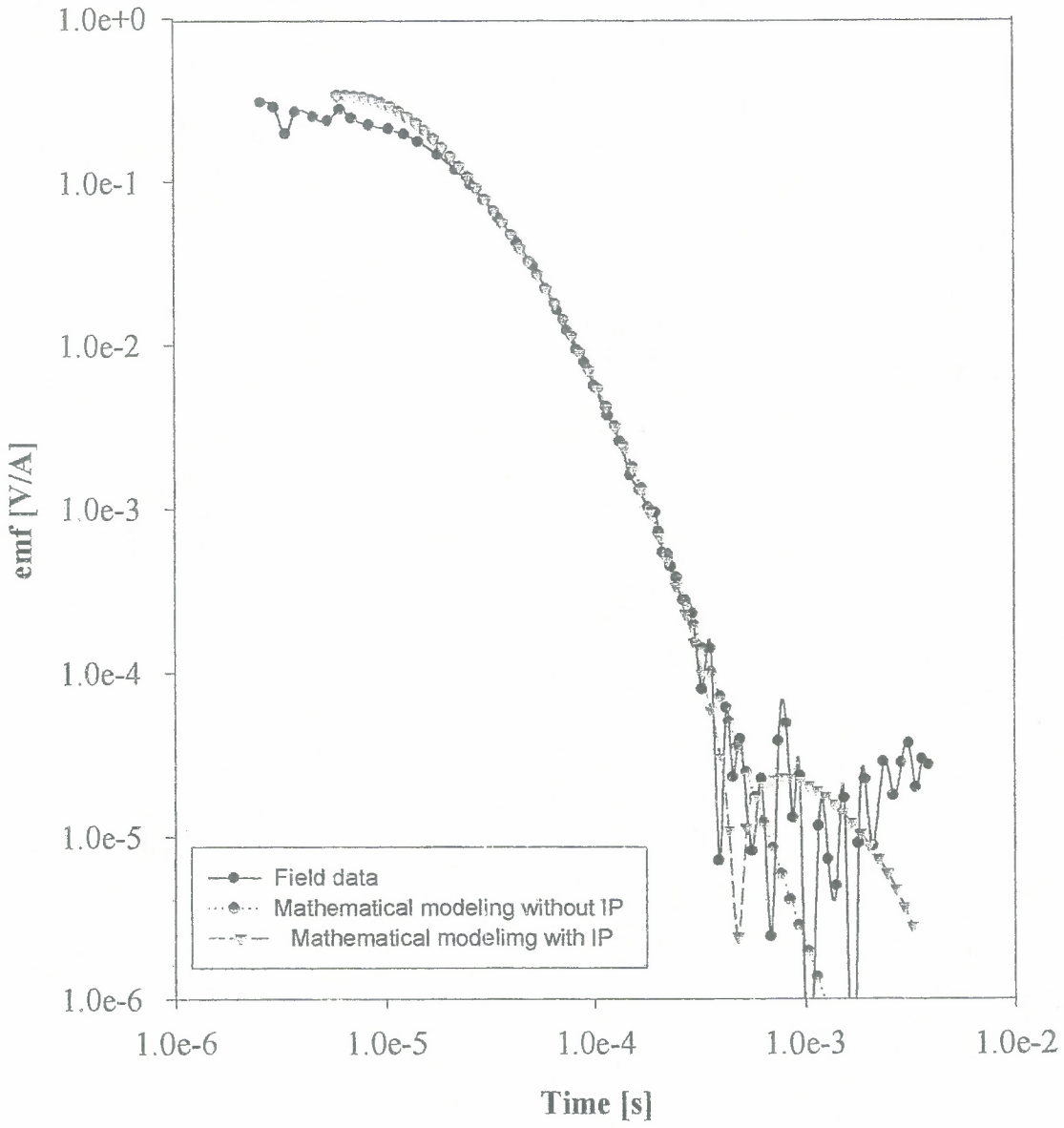
TDEM 10



TDEM 10

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	13.5	10	-	-
2	28	14	0.8	2
3	48	10	1.0	14

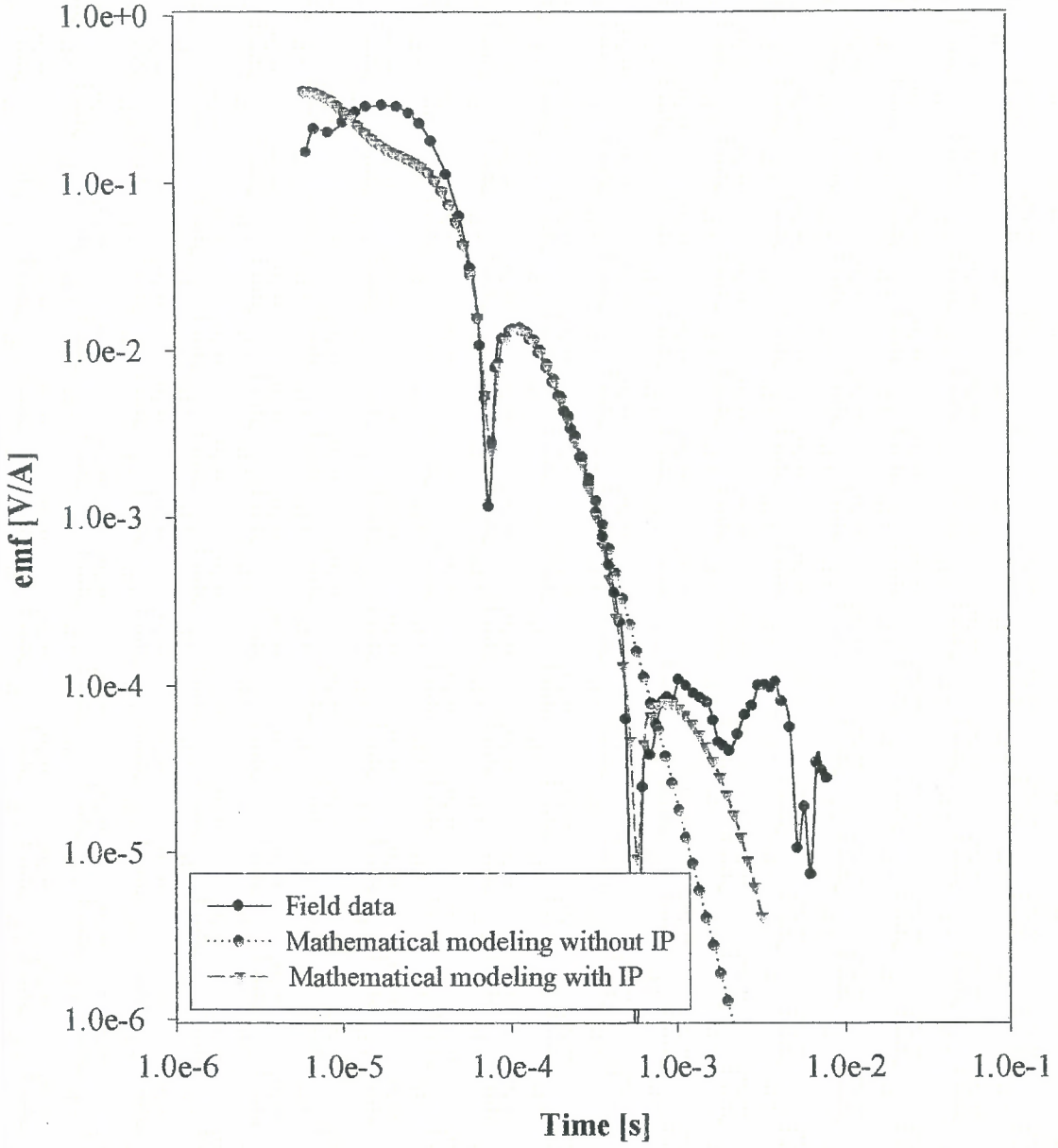
TDEM 10a



TDEM 10a

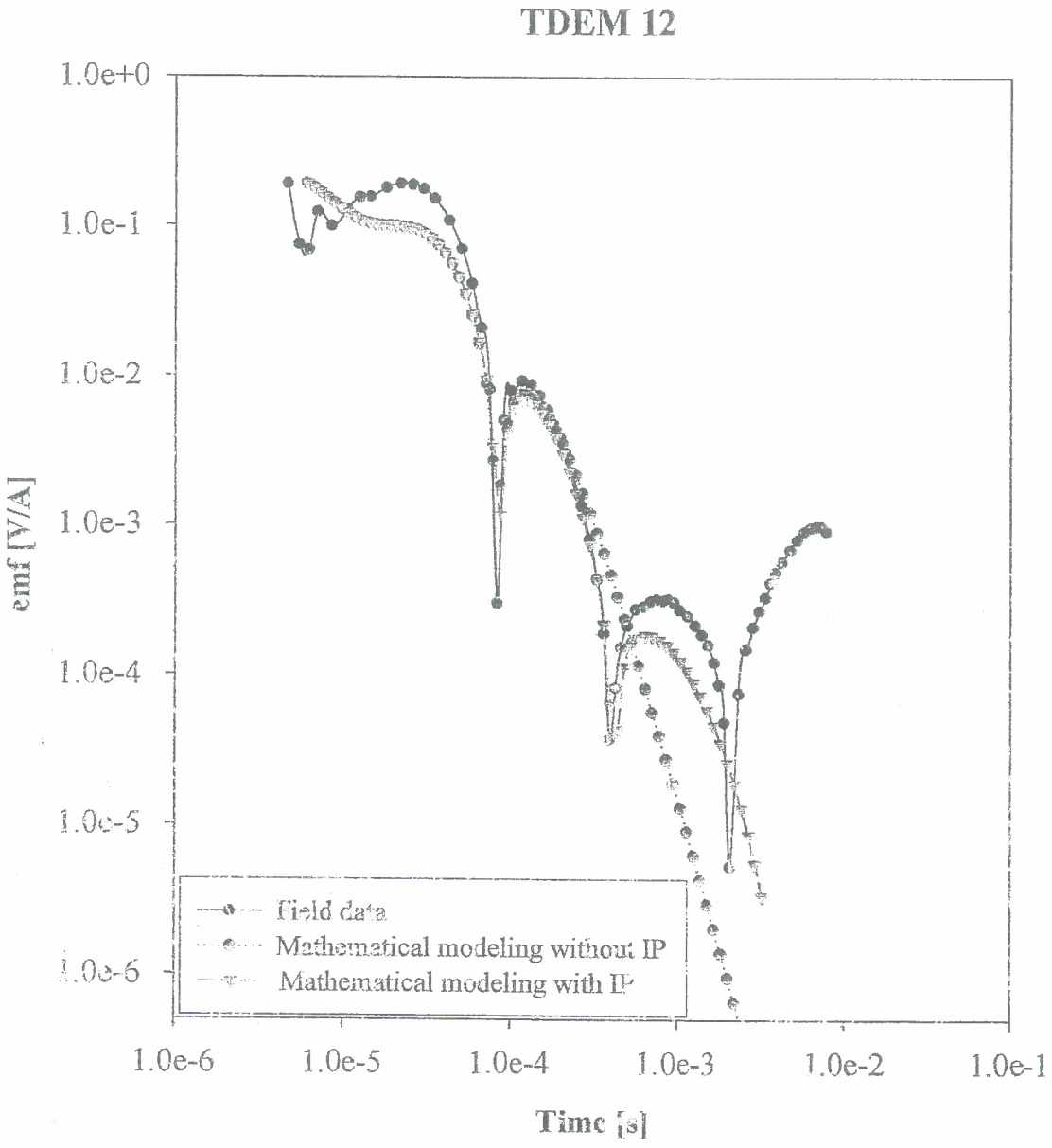
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	13.5	10	-	-
2	32	13	-	-
3	48	11	1.2	12

TDEM 11



TDEM 11

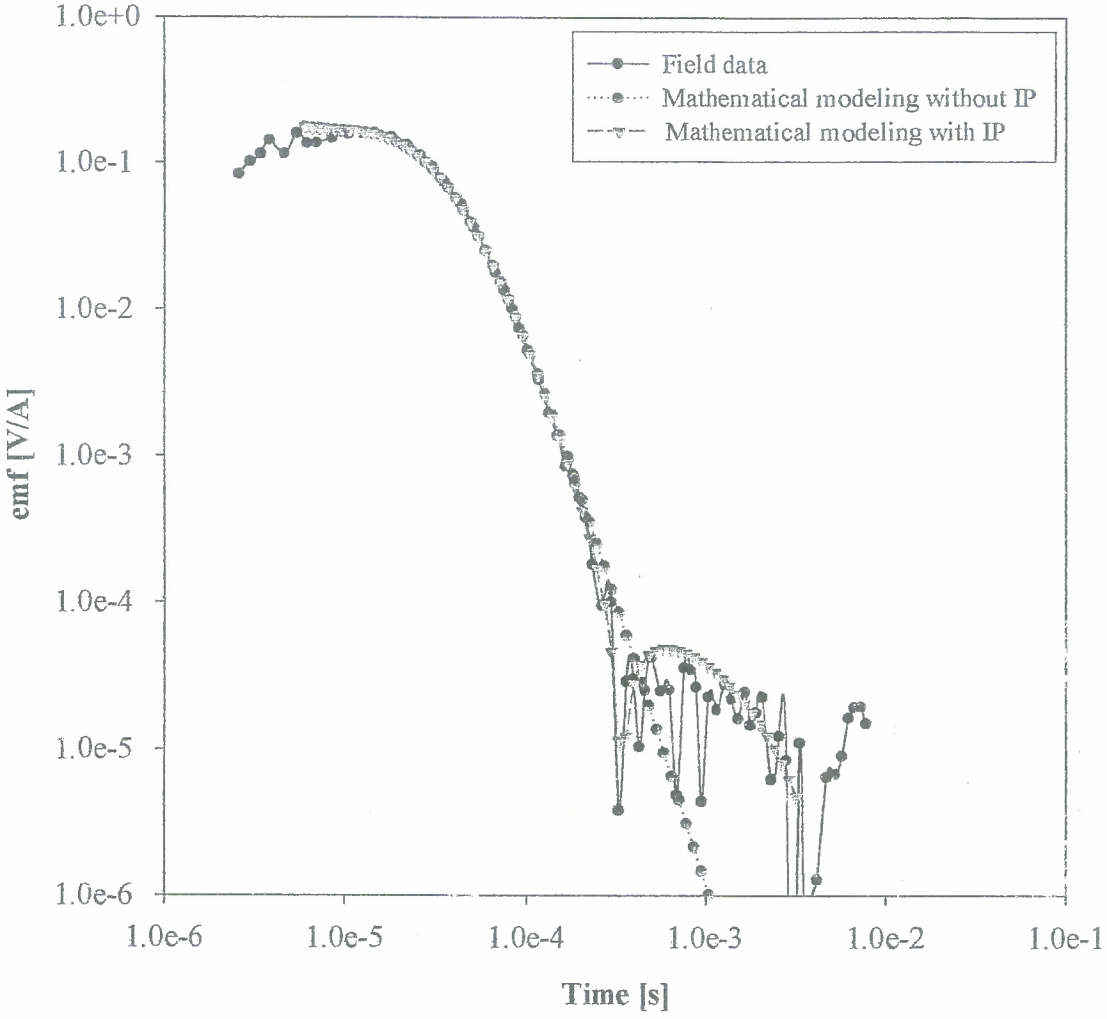
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	13.5	10	-	-
2	53	7	0.8	11



TDEM 12 (?? too big polarization)

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14	11.5	-	-
2	33	3	0 8	35

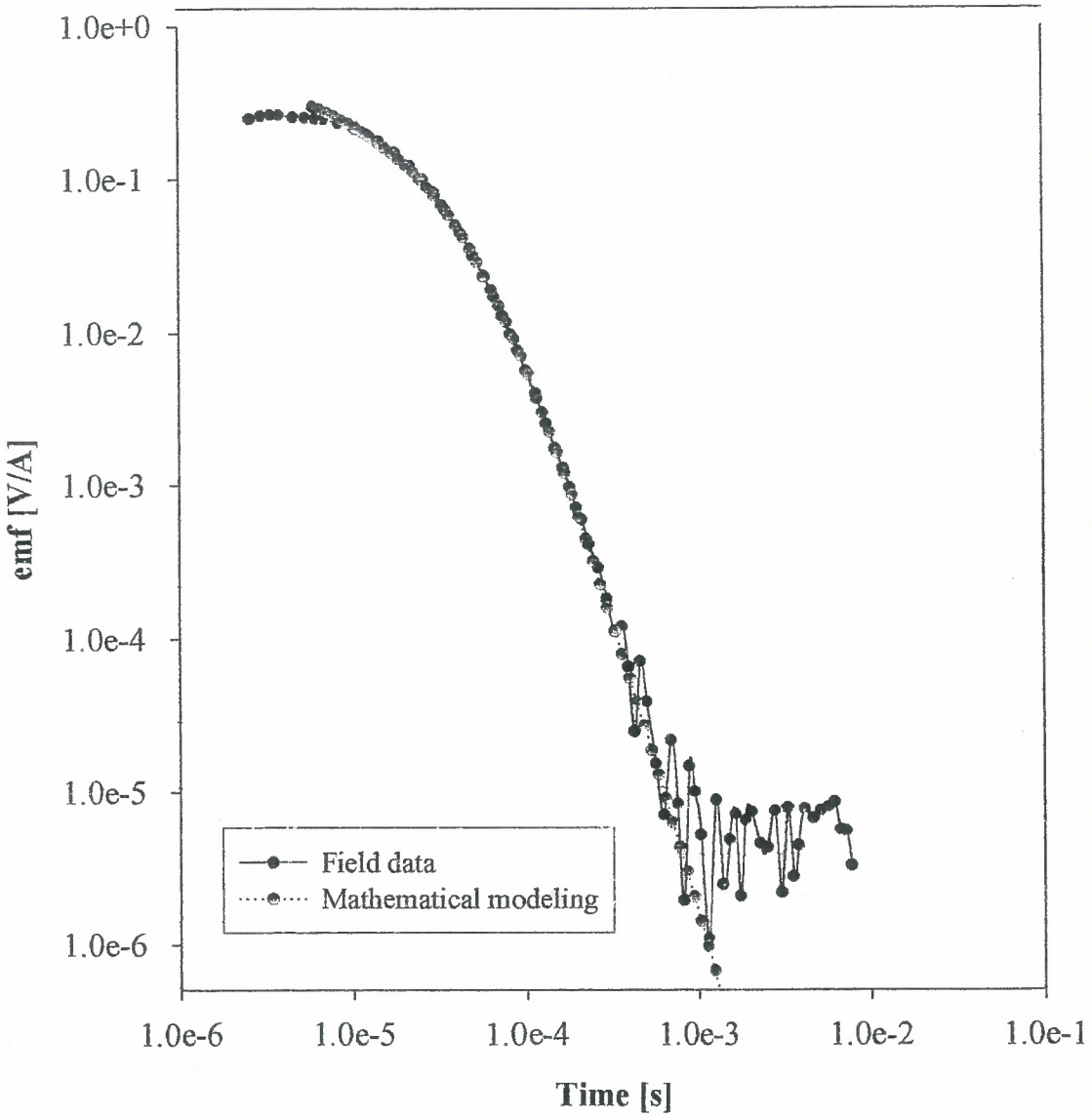
TDEM 13



TDEM 13

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14	13.5	-	-
2	33	2	0.8	1
3	48	3	1.2	10-12

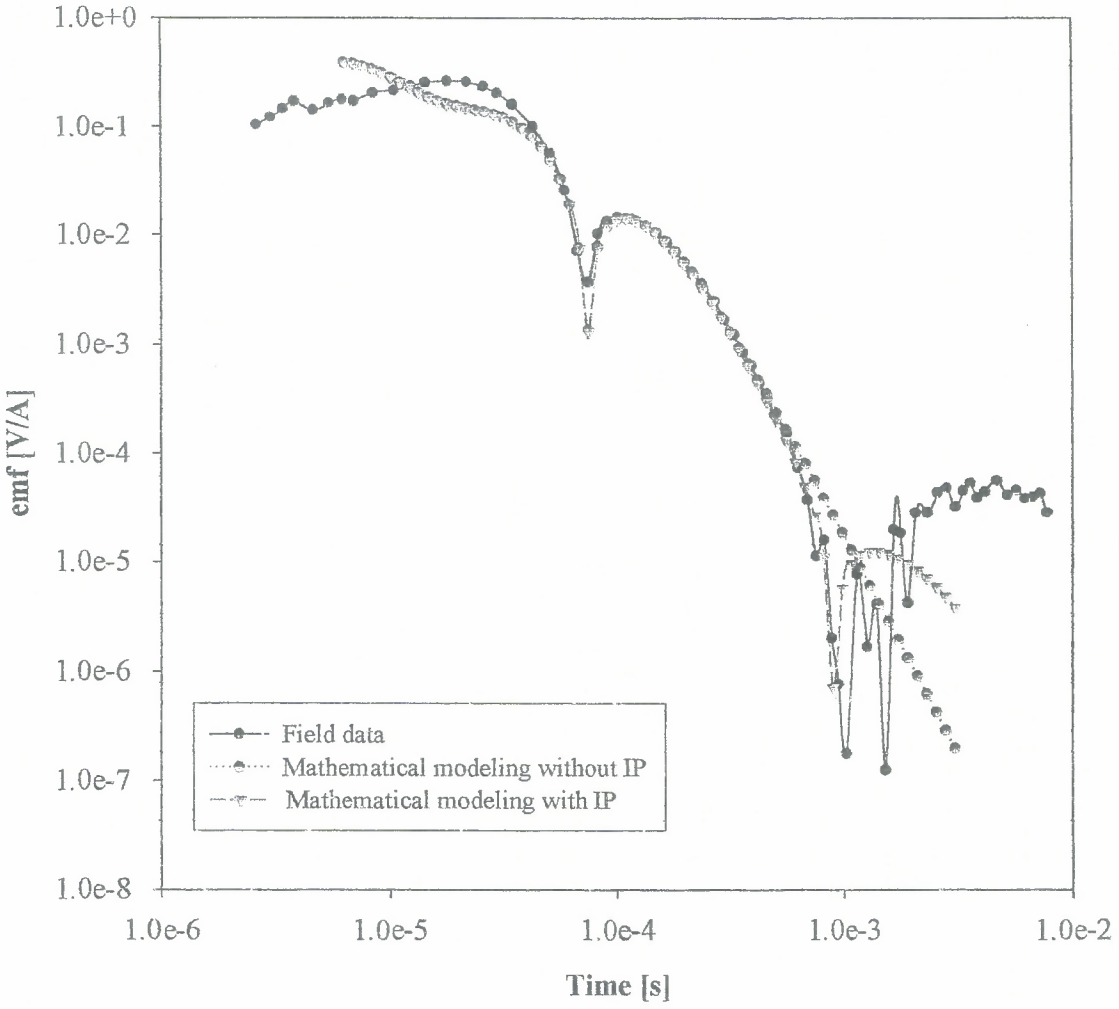
TDEM 13a



TDEM 13a

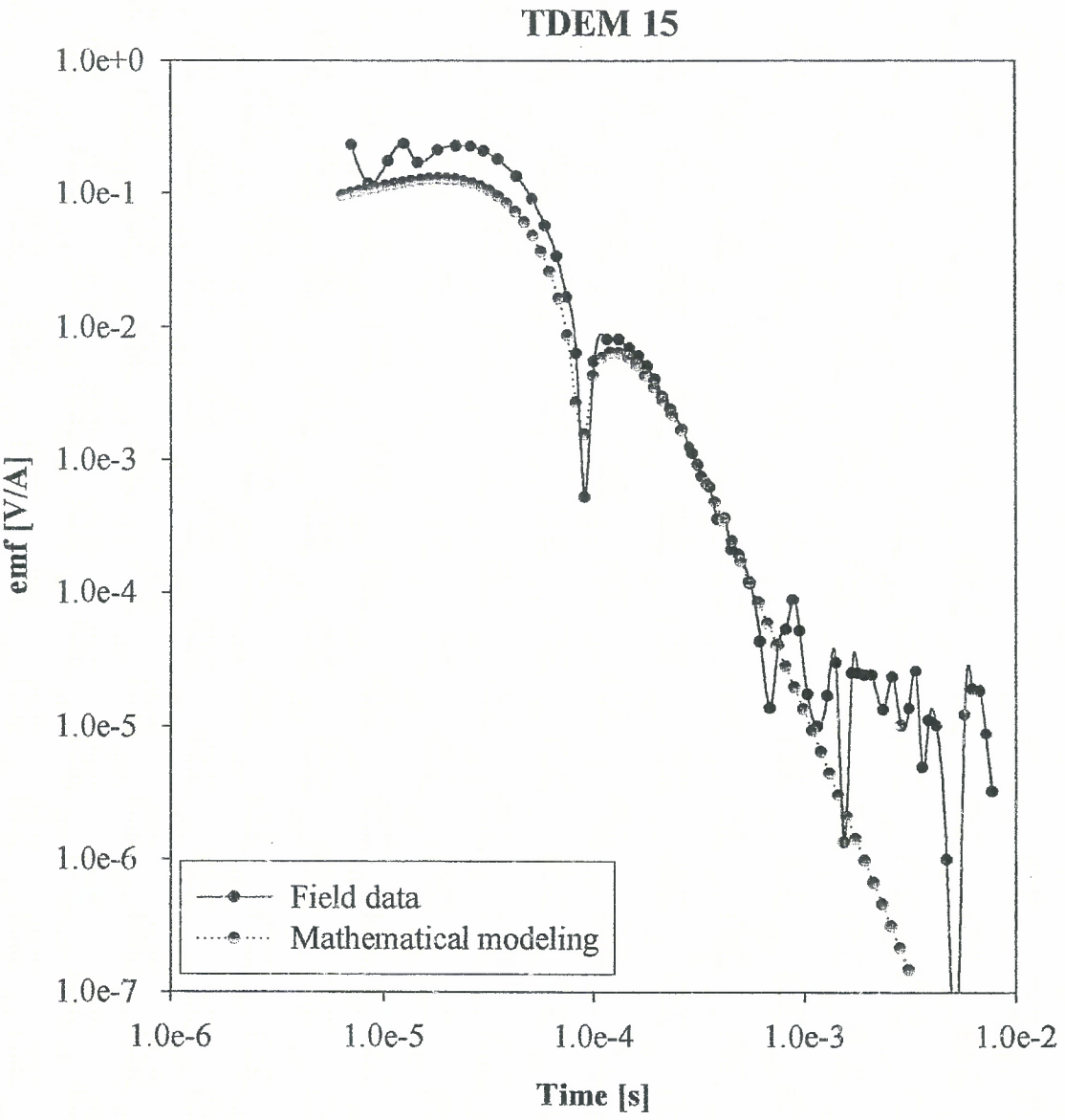
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14	13.5	-	-
2	33	5	-	-
3	48	5	-	-

TDEM 14



TDEM 14

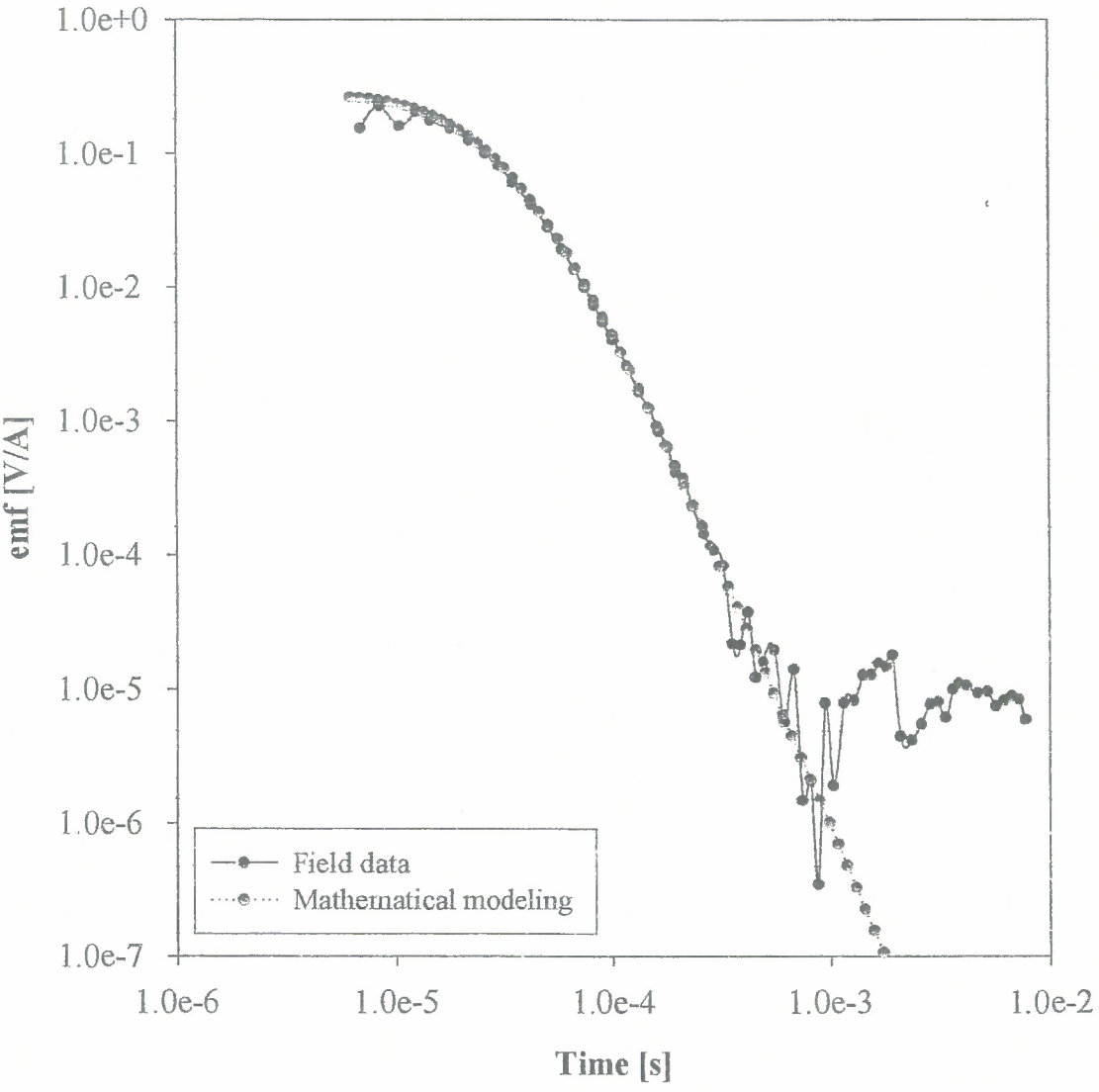
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	12	8	-	-
2	33	4	1.2	3-6



TDEM 15

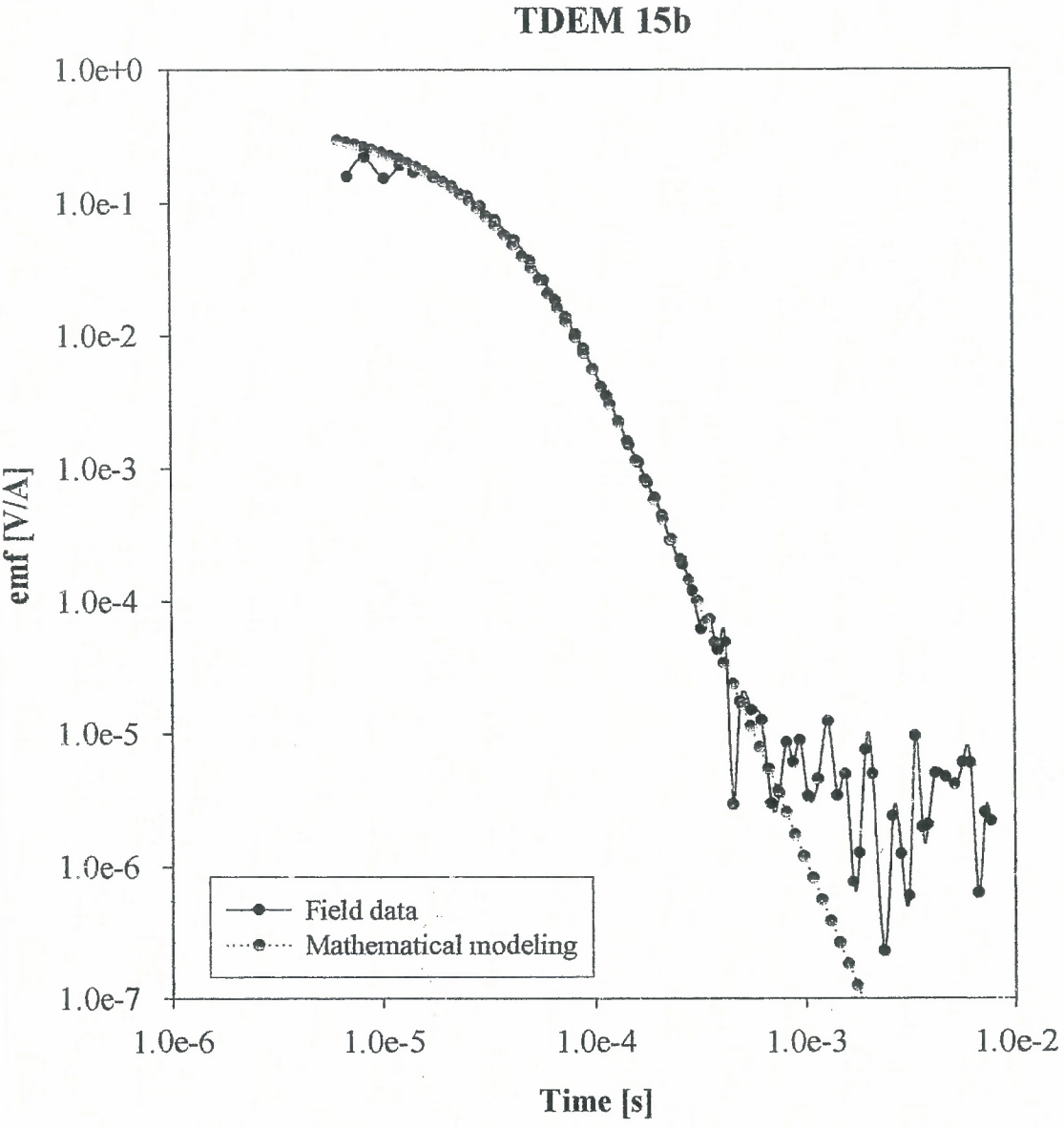
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14	12	-	-
2	33	1	0.6	2

TDEM 15a



TDEM 15a

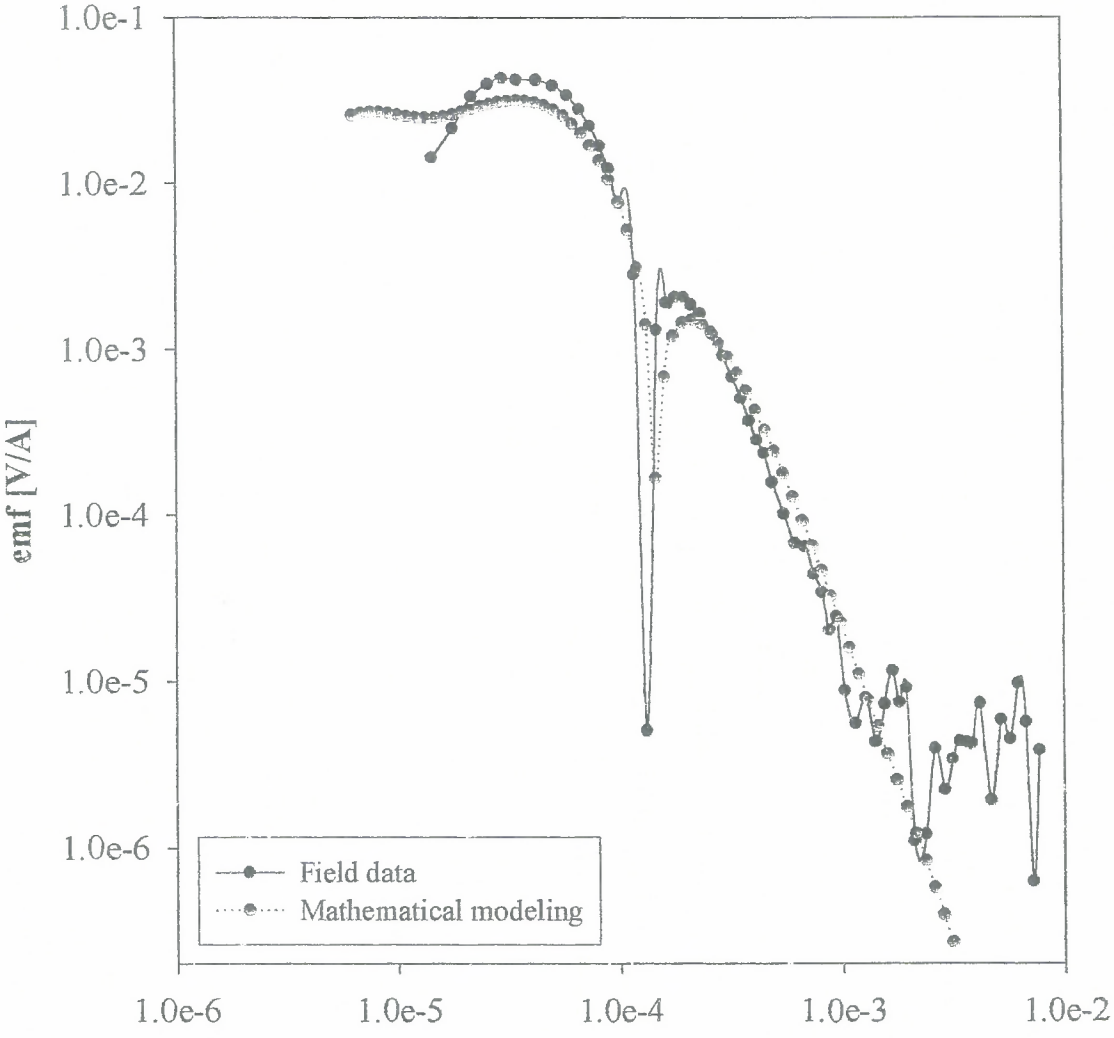
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	15.5	10	-	-
2	33	11	-	-
3	43	2	-	-



TDEM15aa (b)

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	11	10	-	-
2	33	4	-	-
3	43	2	-	-

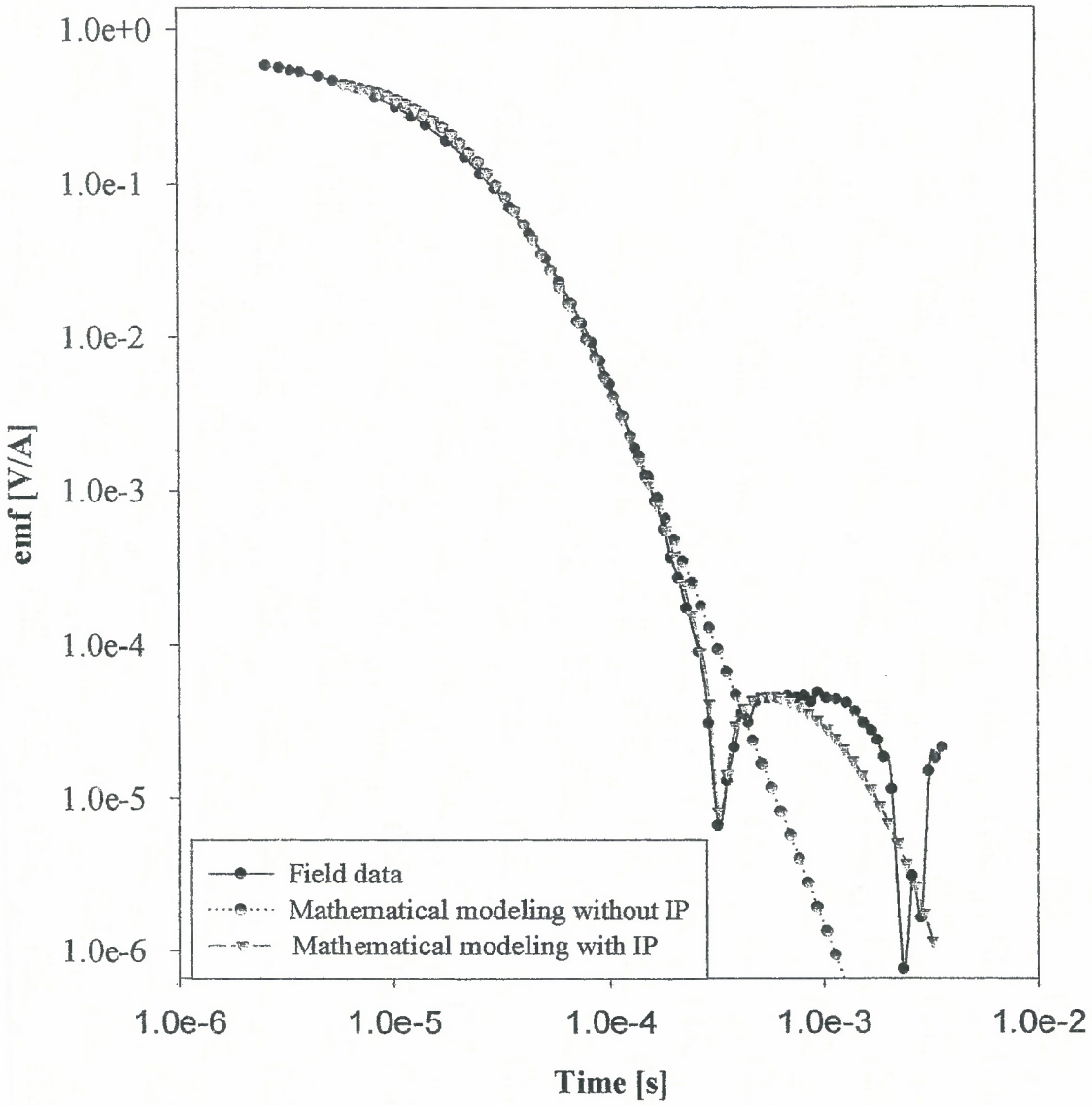
TDEM 15c



TDEM 15c

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	9	12	-	-
2	33	4	-	-

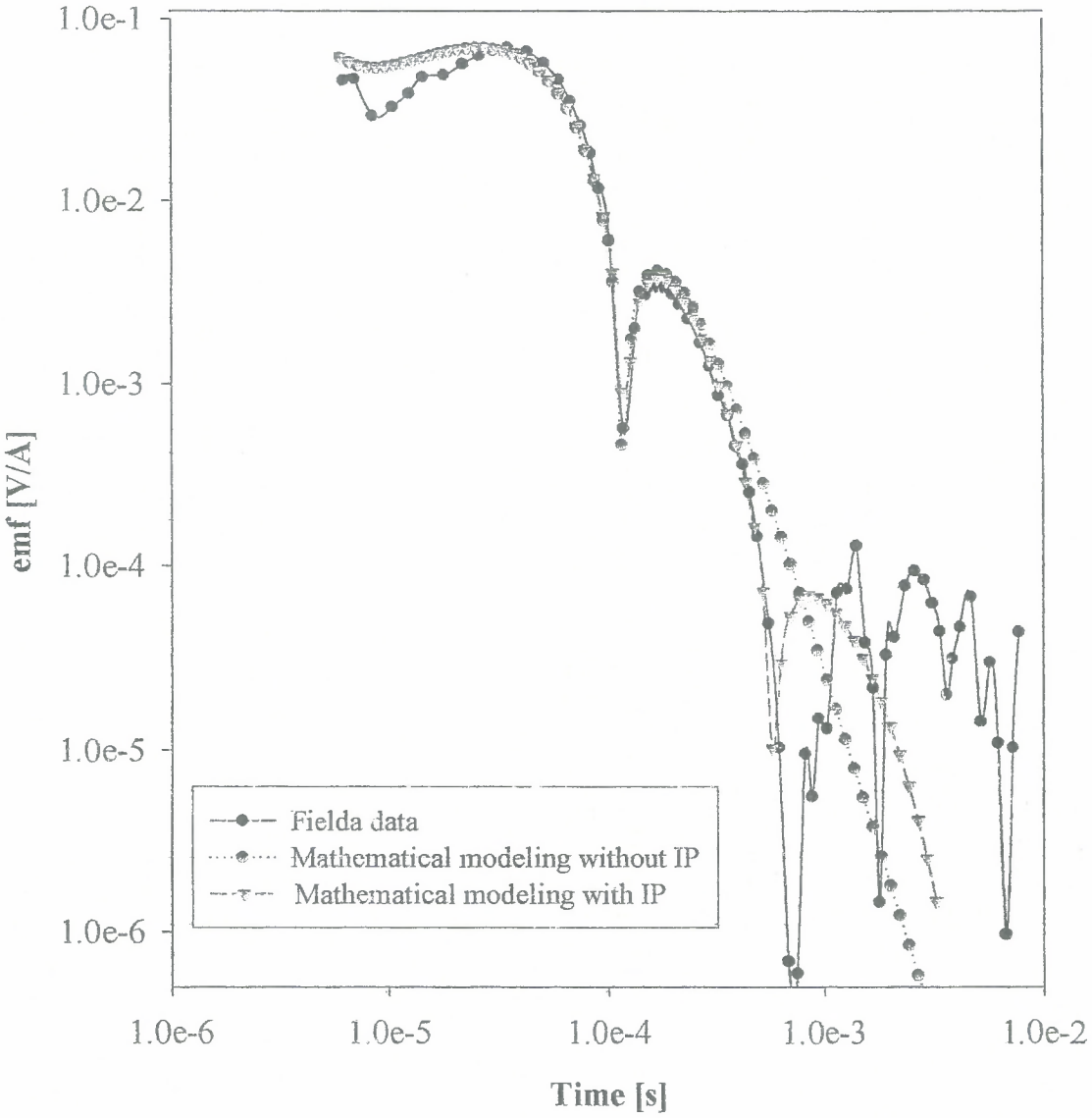
TDEM 16



TDEM 16

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	9.5	13	-	-
2	33	13	0.8	8
3	48	10	0.8	36

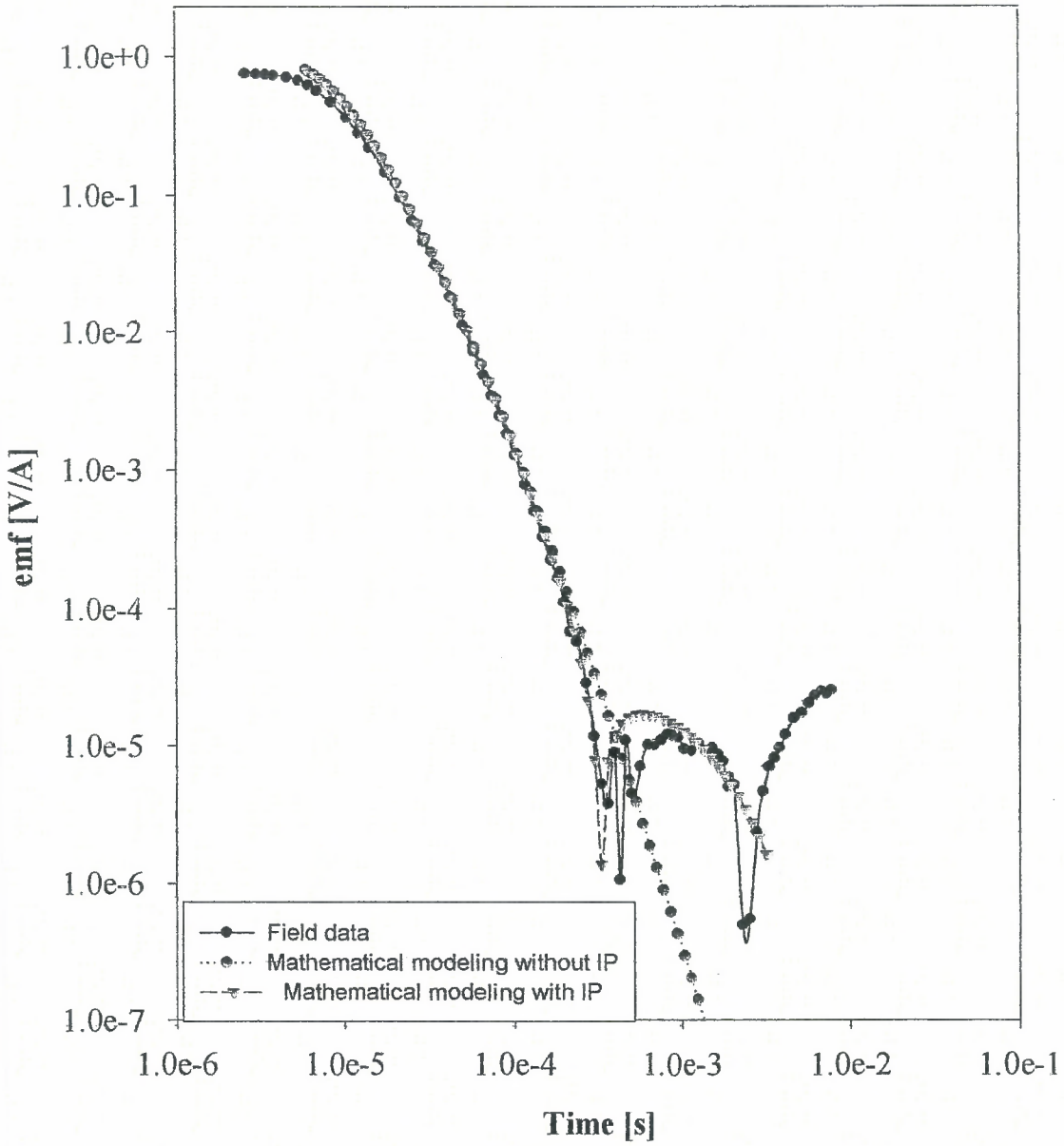
TDEM 17



TDEM 17

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10.5	12.3	-	-
2	53	2.5	0.7	24

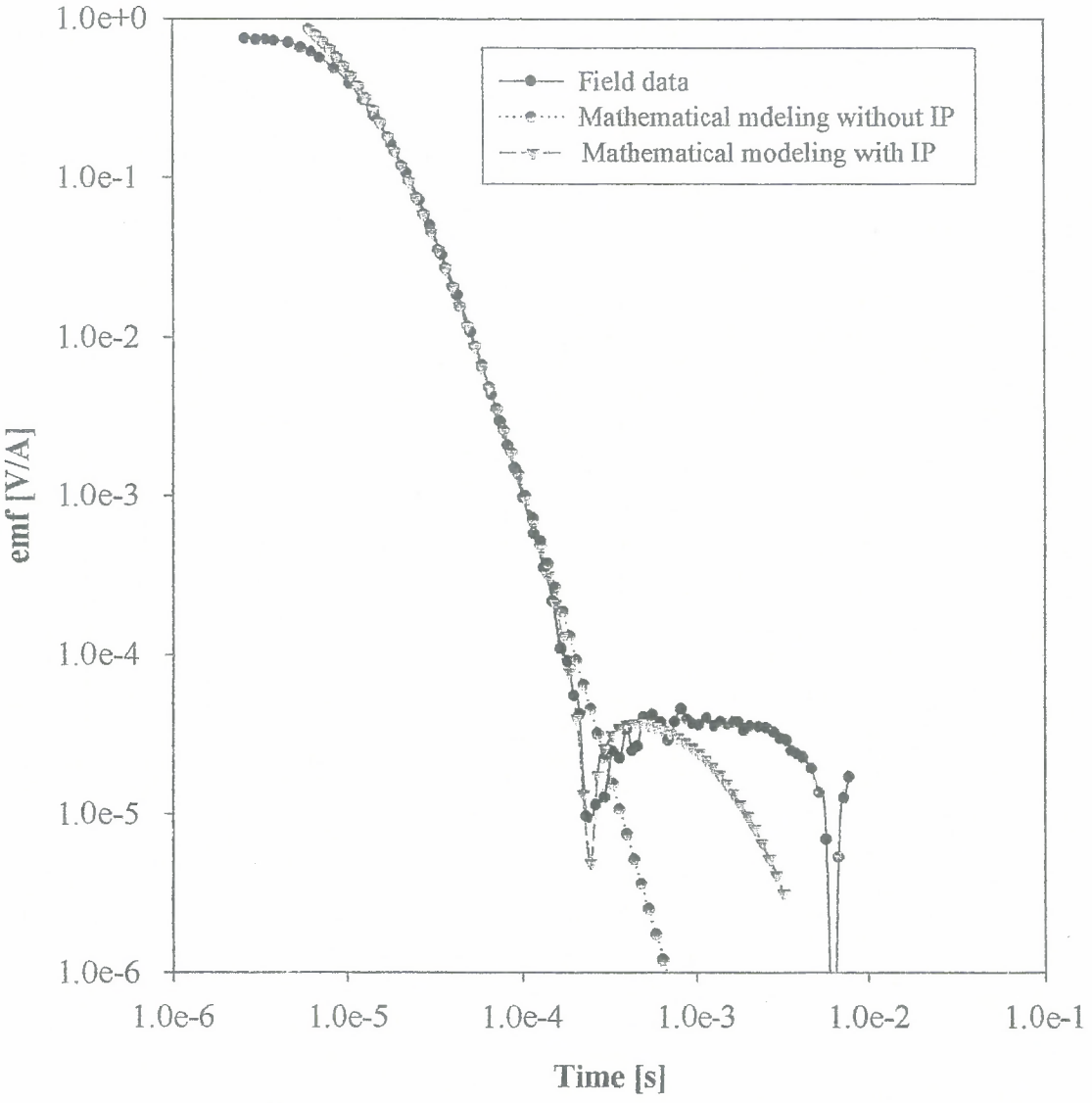
TDEM 18



TDEM 18

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14.5	9	-	-
2	33	12	-	-
3	48	8	1.2	13

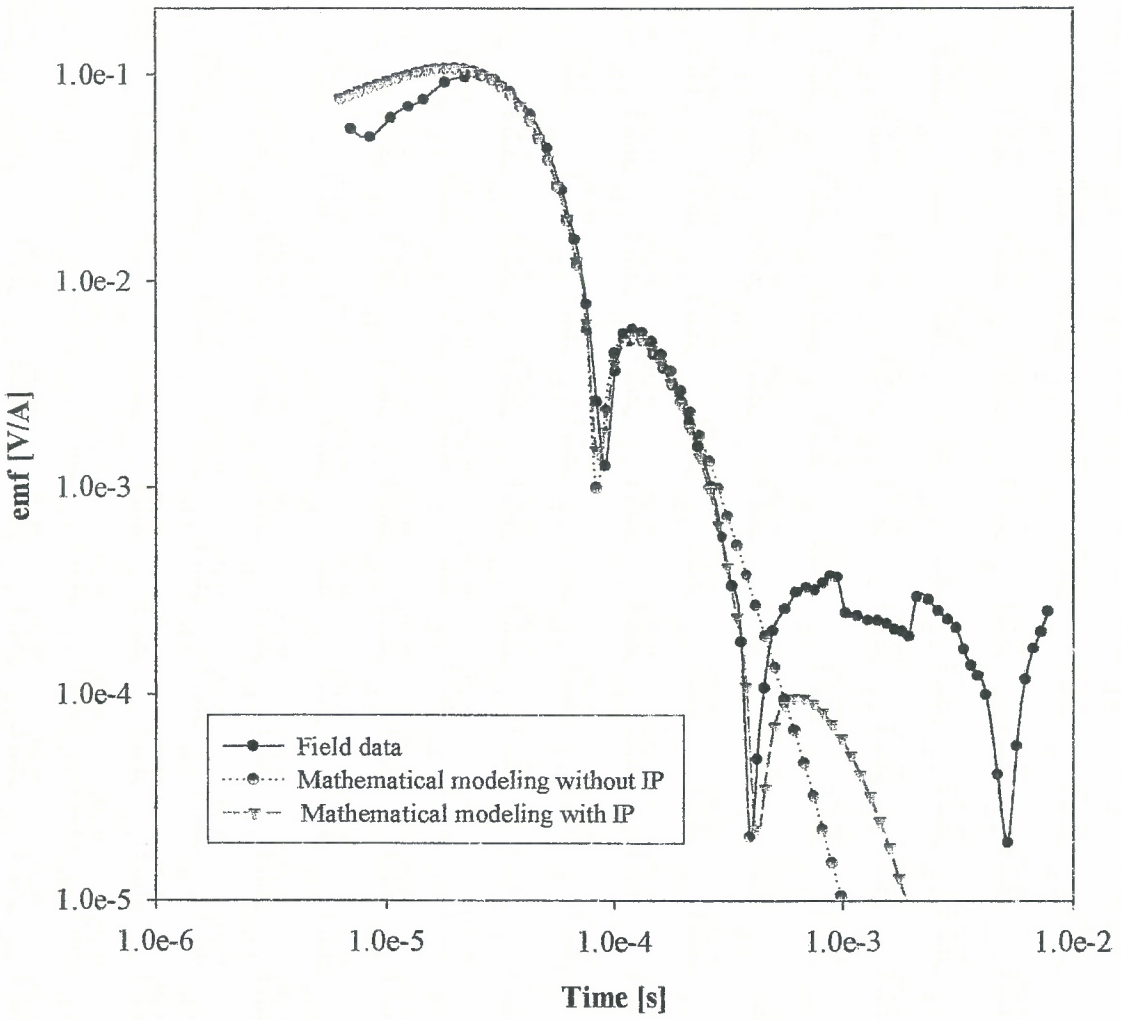
TDEM 19



TDEM 19

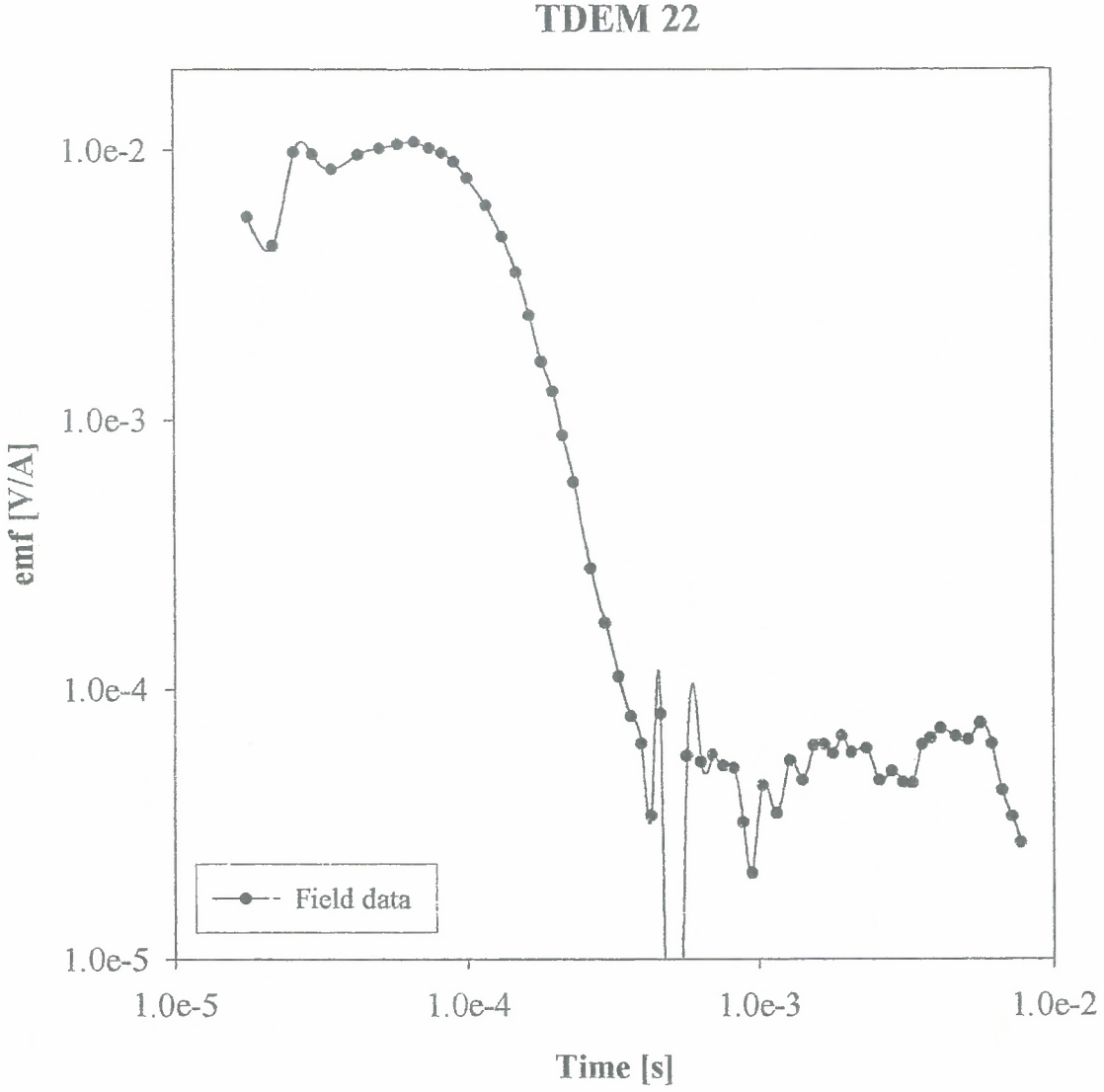
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14.5	8.5	-	-
2	33	8	-	-
3	48	7	1.2	11.5

TDEM 20



TDEM 20

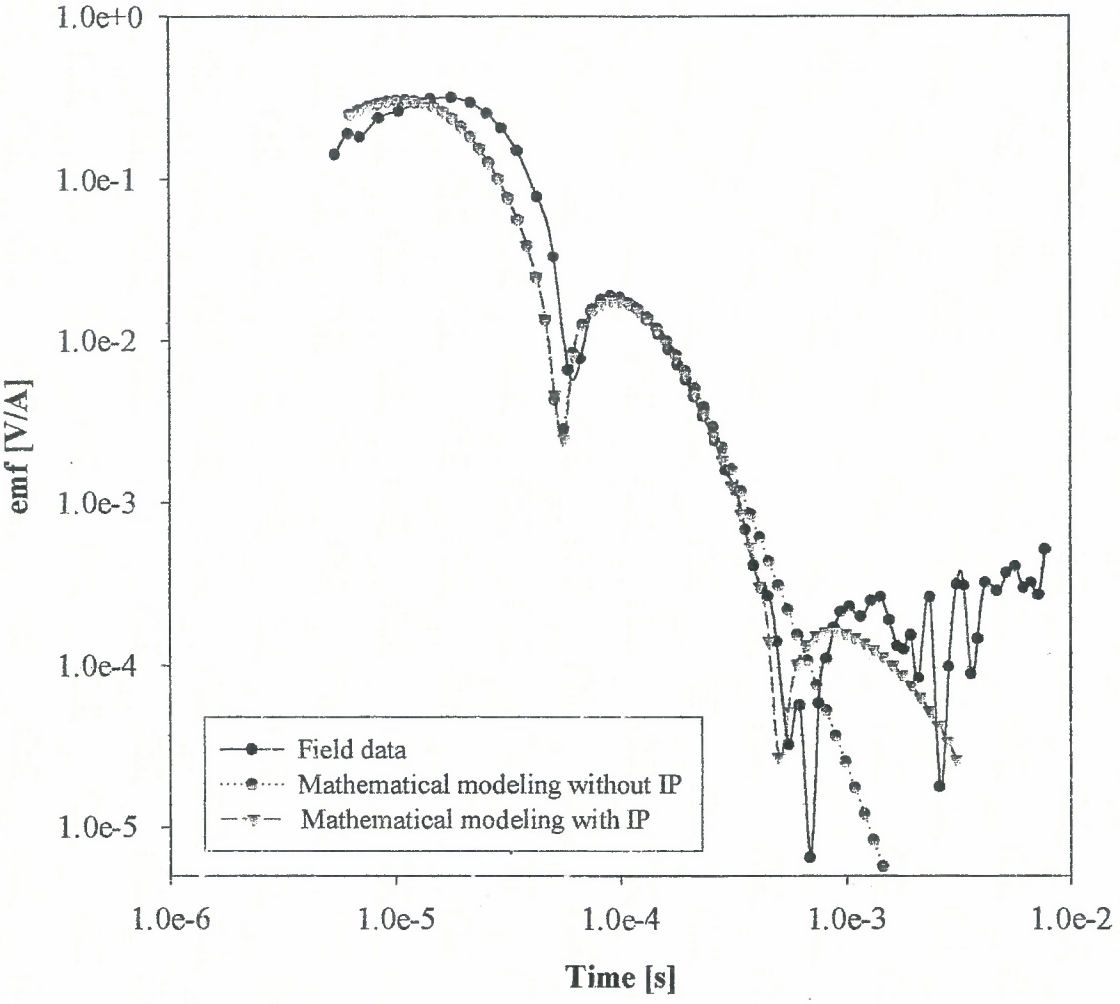
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	12	10	0.65	10
2	33	4	0.5	20?



TDEM 22 (distortion?)

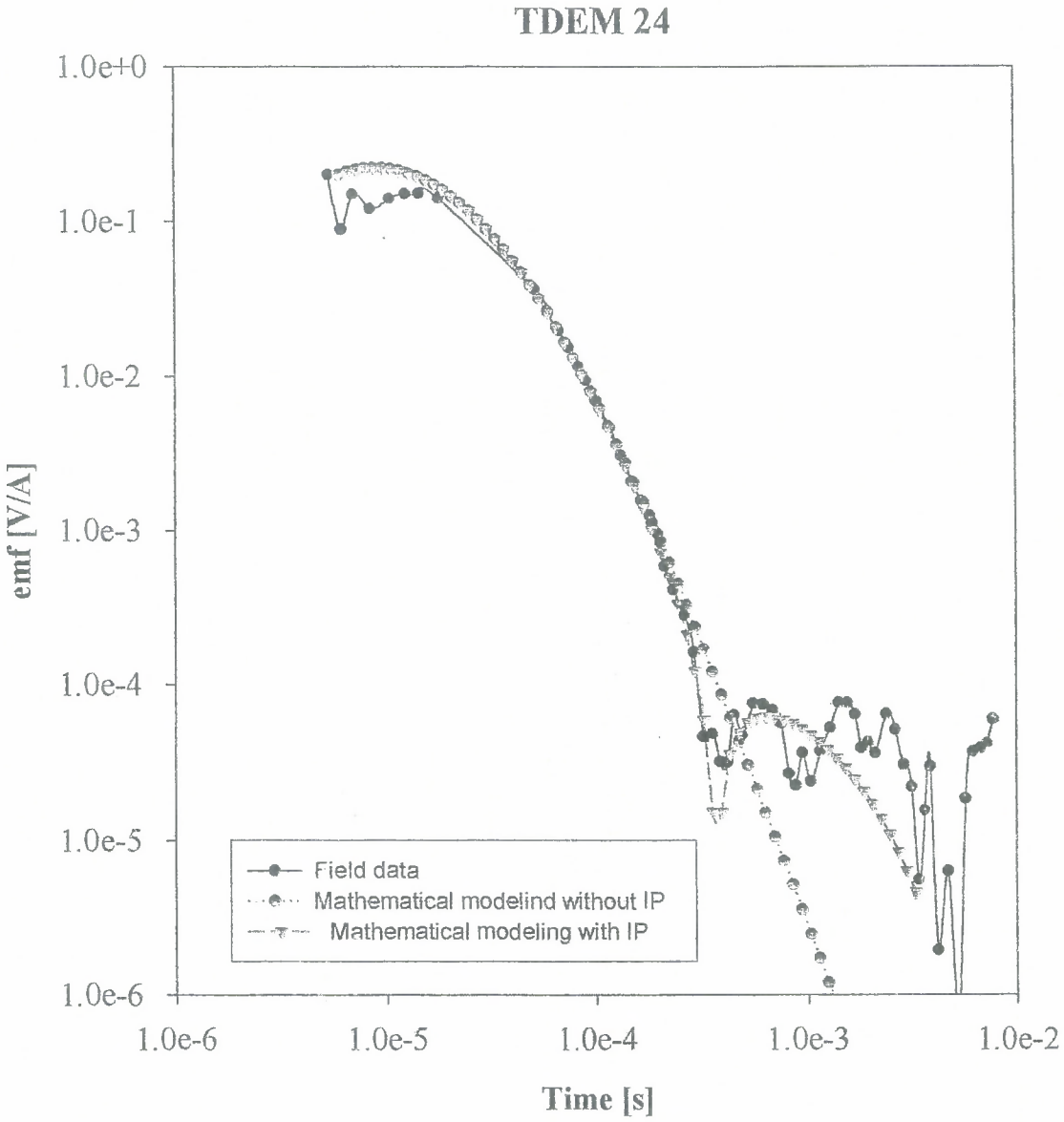
	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	Not possible		But not	-
2	receive	good misfit	polarization	-

TDEM 23



TDEM 23

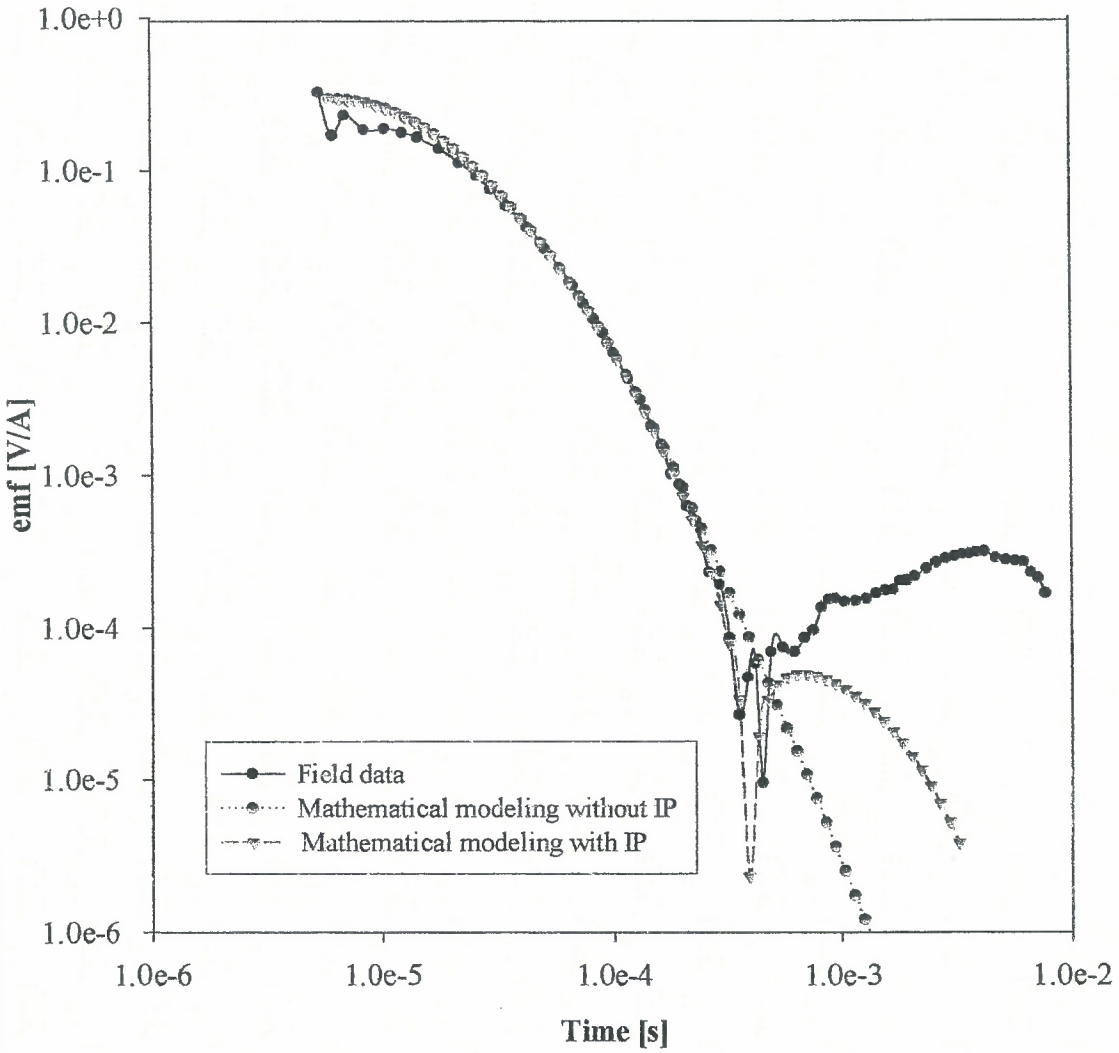
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	16.5	9	-	-
2	33	15	1.4	29



TDEM 24

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14	11	-	-
2	33	17	0.8	4
3	48	10	0.25	25

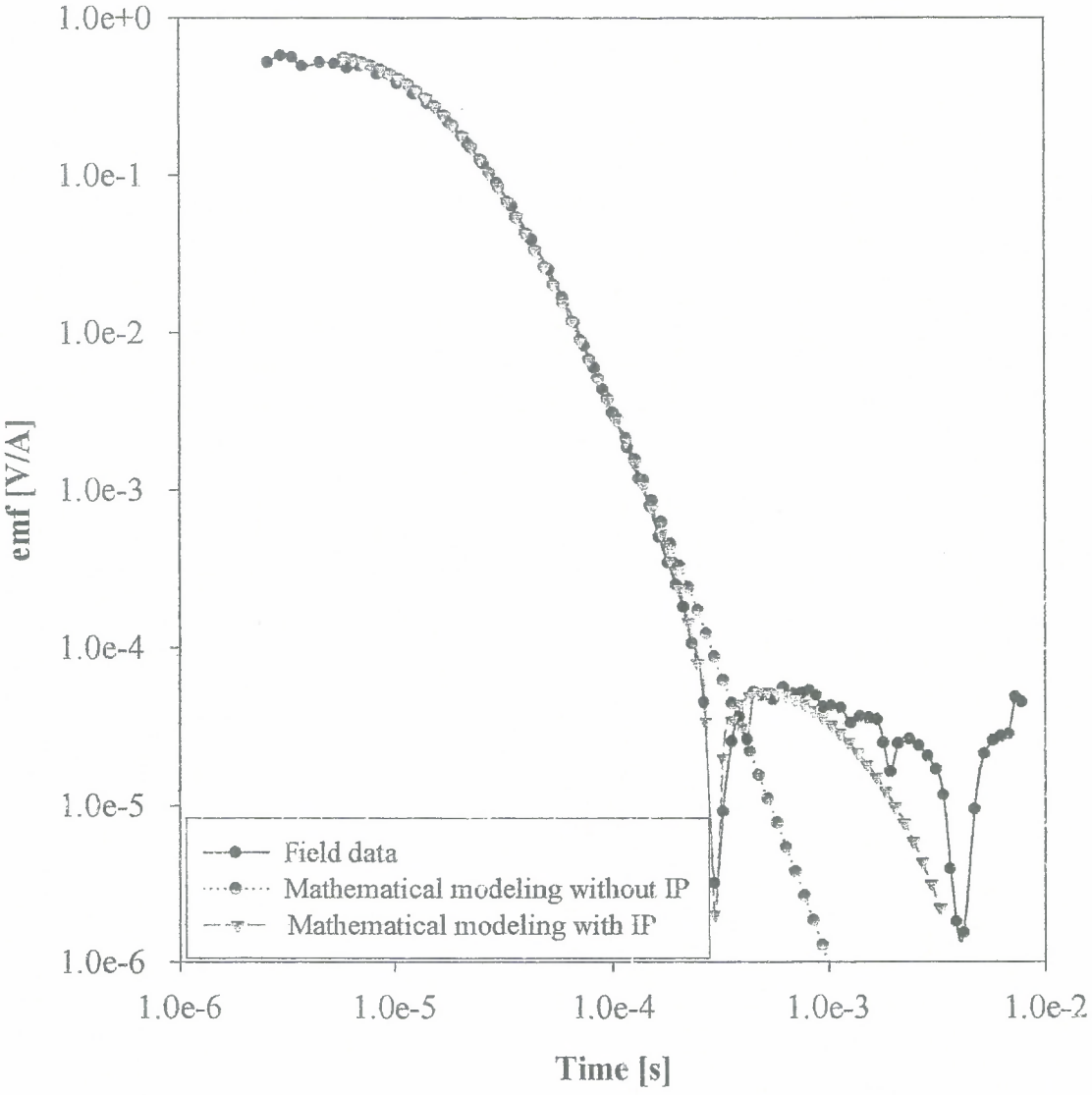
TDEM 24a



TDEM 24a

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14	22	-	-
2	33	17	0.8	4
3	48	10	1.2	25

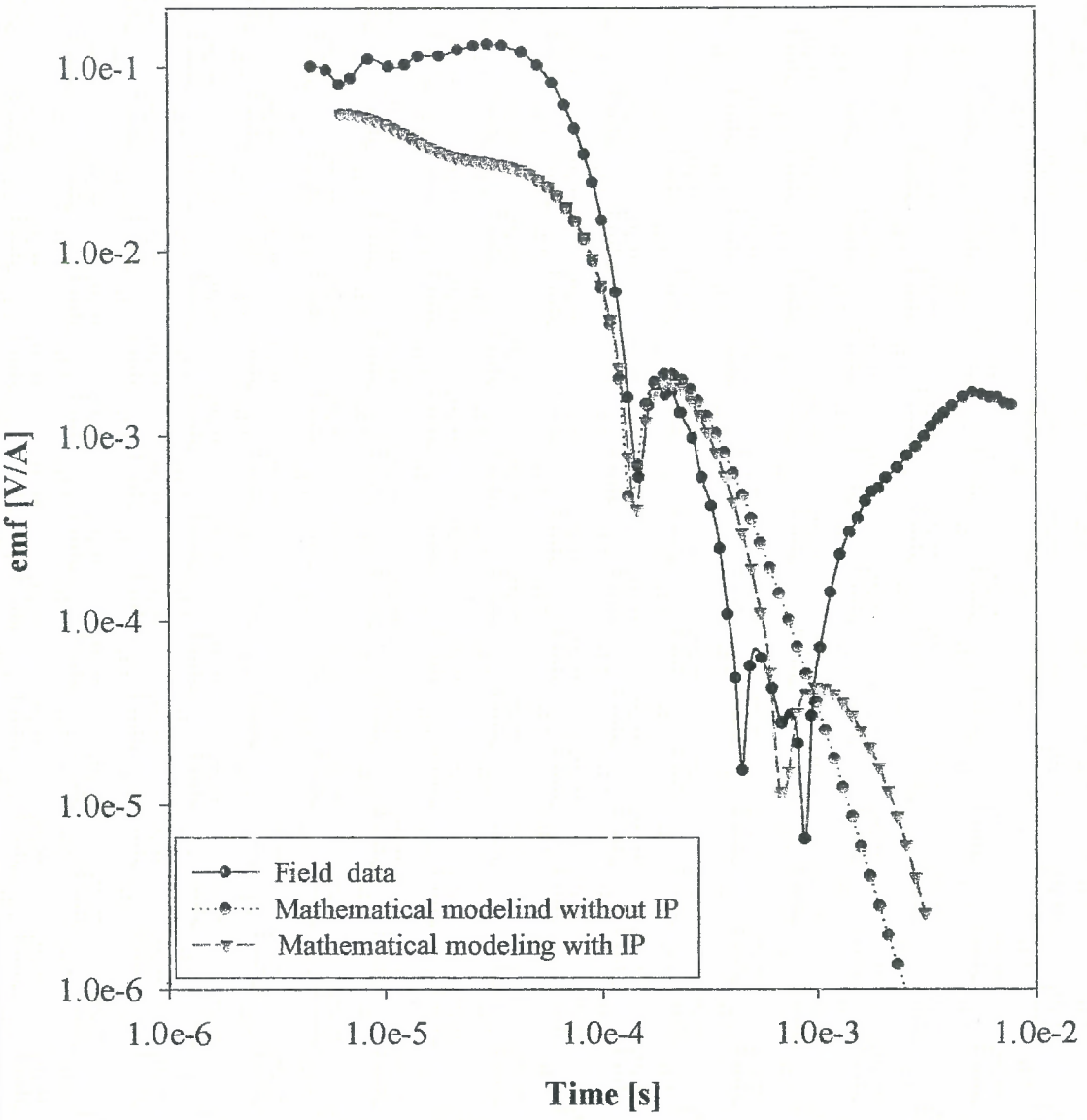
TDEM 24b



TDEM 24b

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10.5	11	-	-
2	33	16	0.8	10
3	48	8	1.2	25

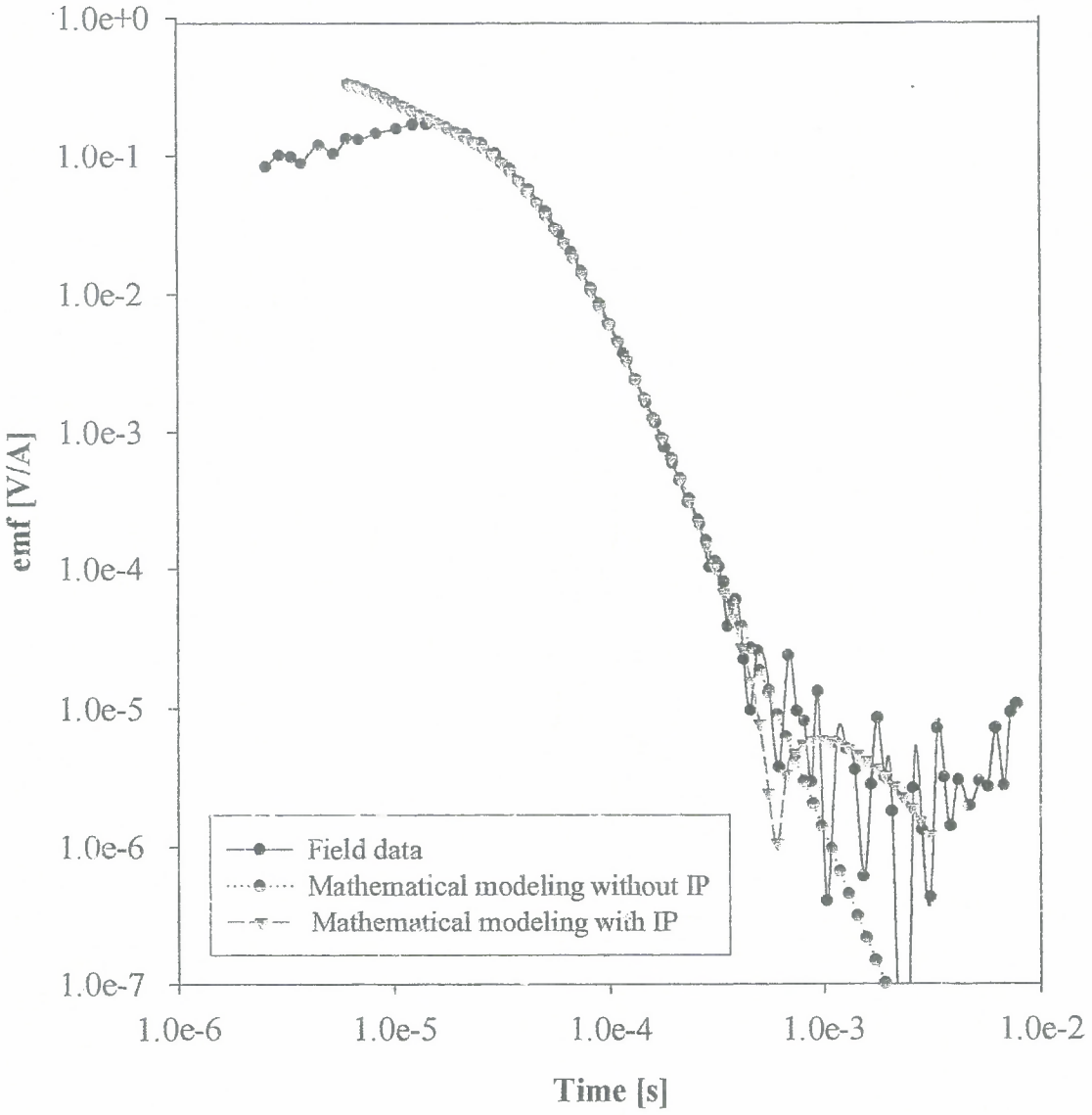
TDEM 25



TDEM 25

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	12.5	18	-	-
2	33	5	0.8	24

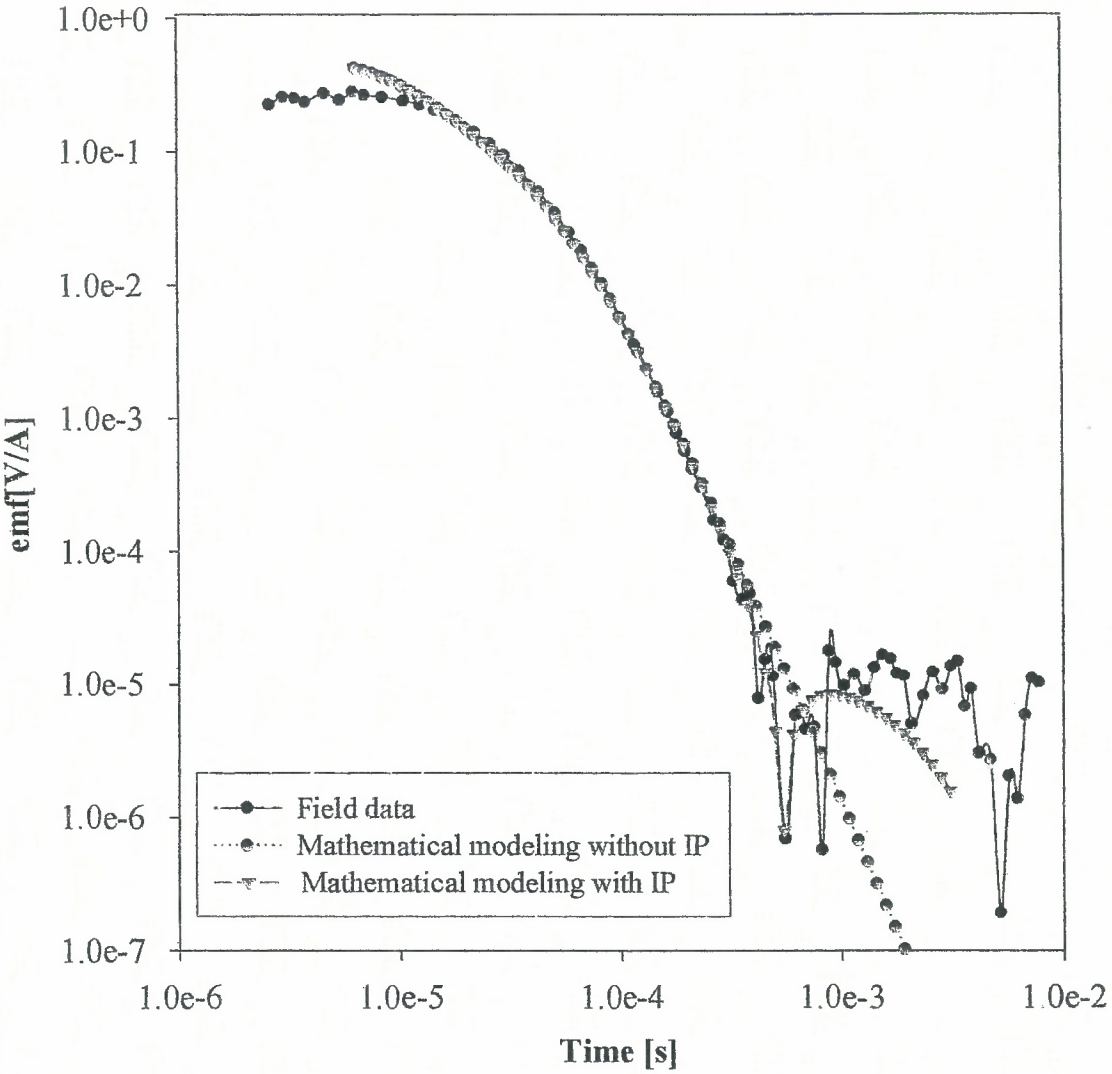
TDEM 26



TDEM 26

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10.5	8	-	-
2	33	7	-	-
3	48	8	1.2	2

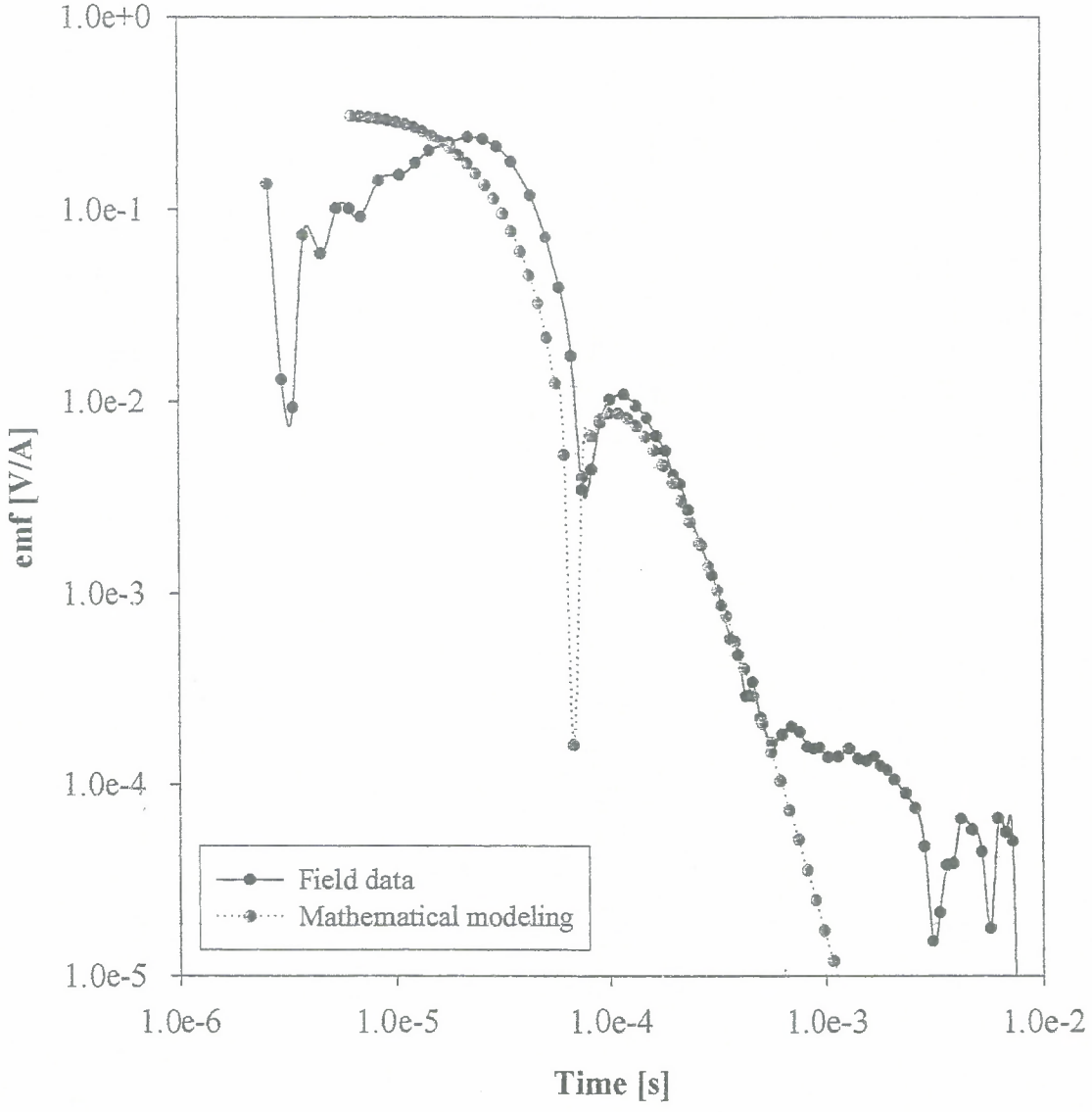
TDEM 26a



TDEM 26a

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10.5	8	-	-
2	33	7	-	-
3	48	8	1.2	3

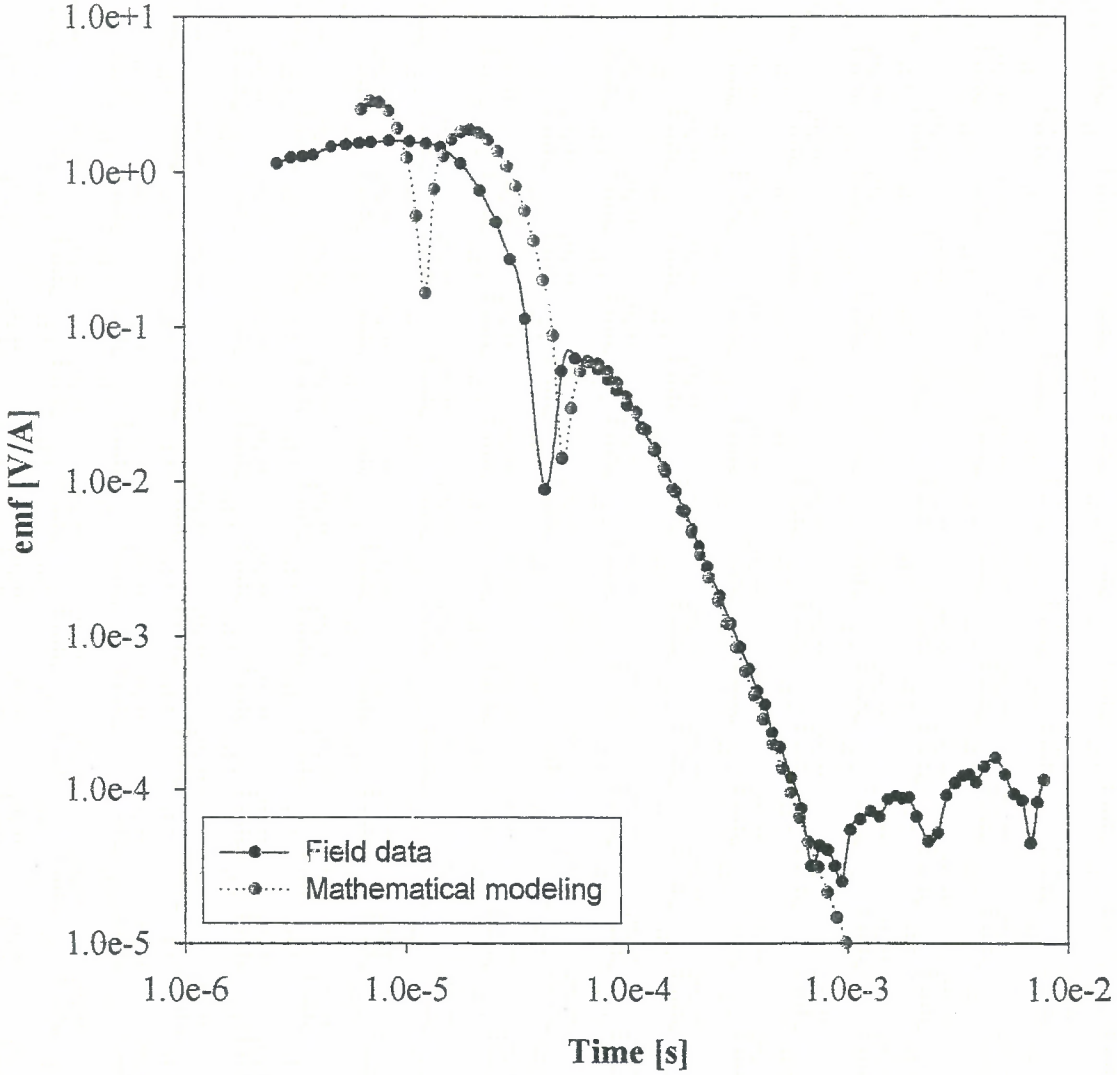
TDEM 26b



TDEM 26 b

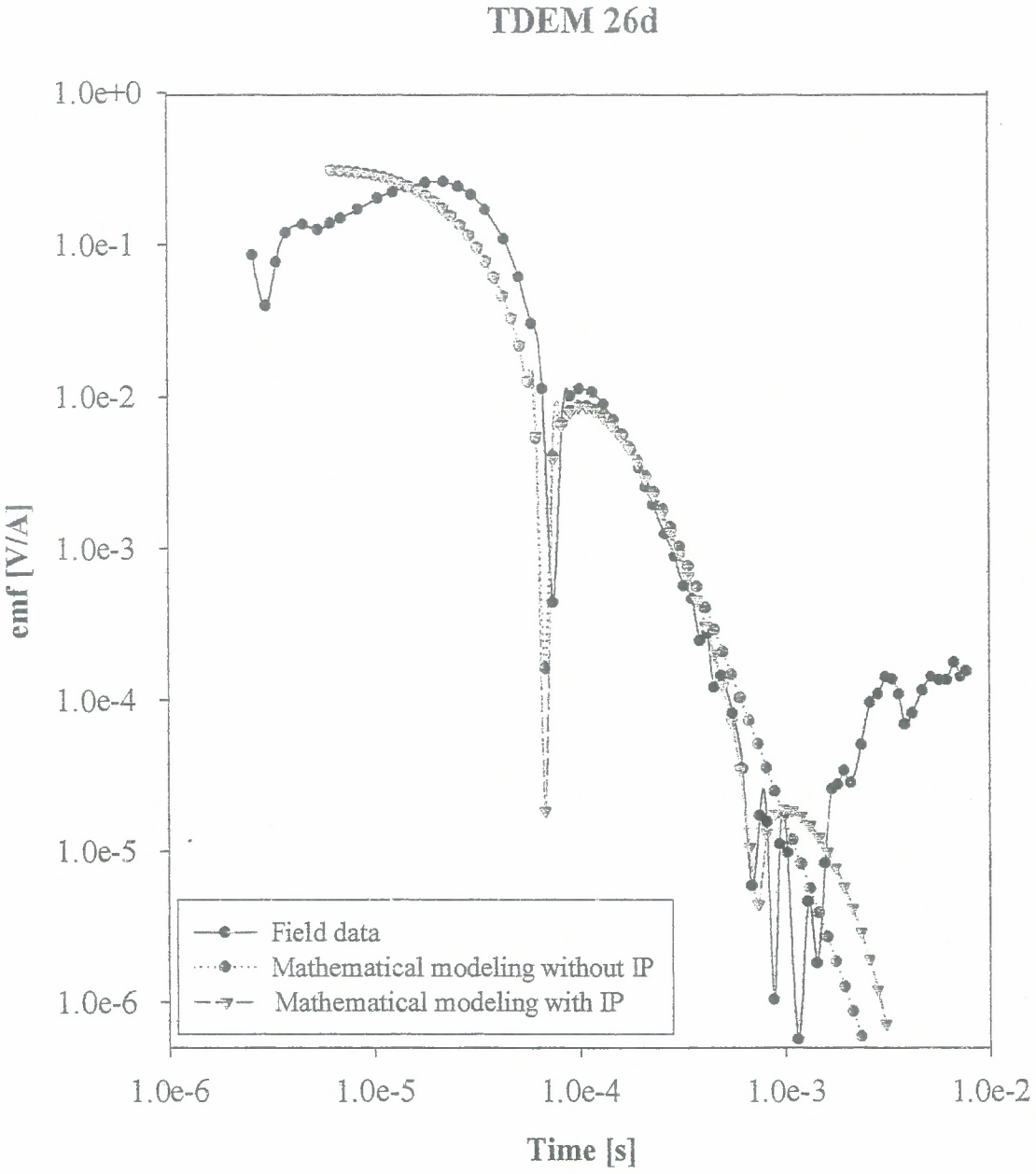
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	5.5	10	-	-
2	33	1	-	-

TDEM 26c



TDEM 26c

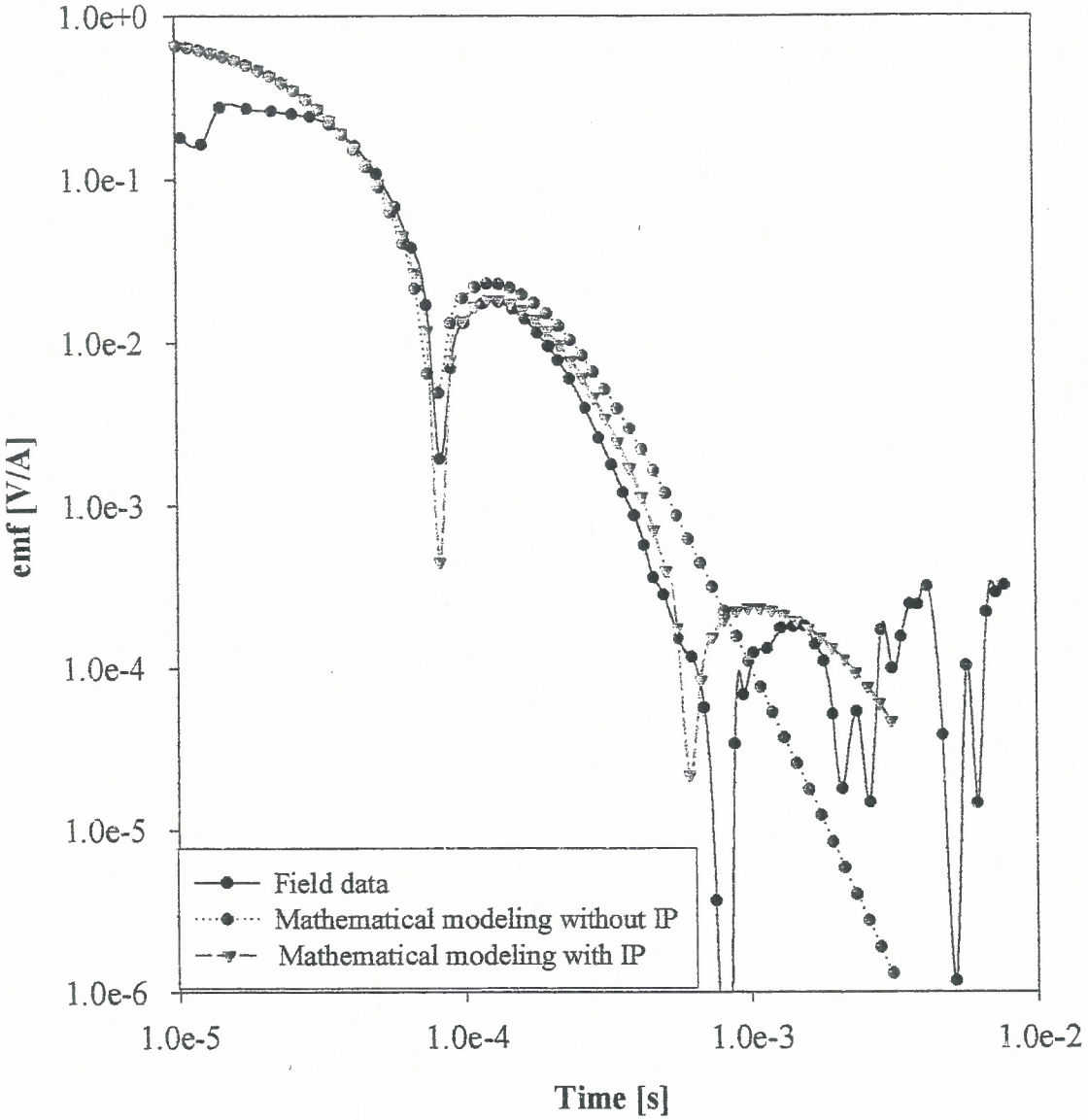
№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	5.5	2	-	-
2	13.5	4	-	-
3	33	10	-	-



TDEM 26d

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	5.5	10	-	-
2	33	5	0.6	5

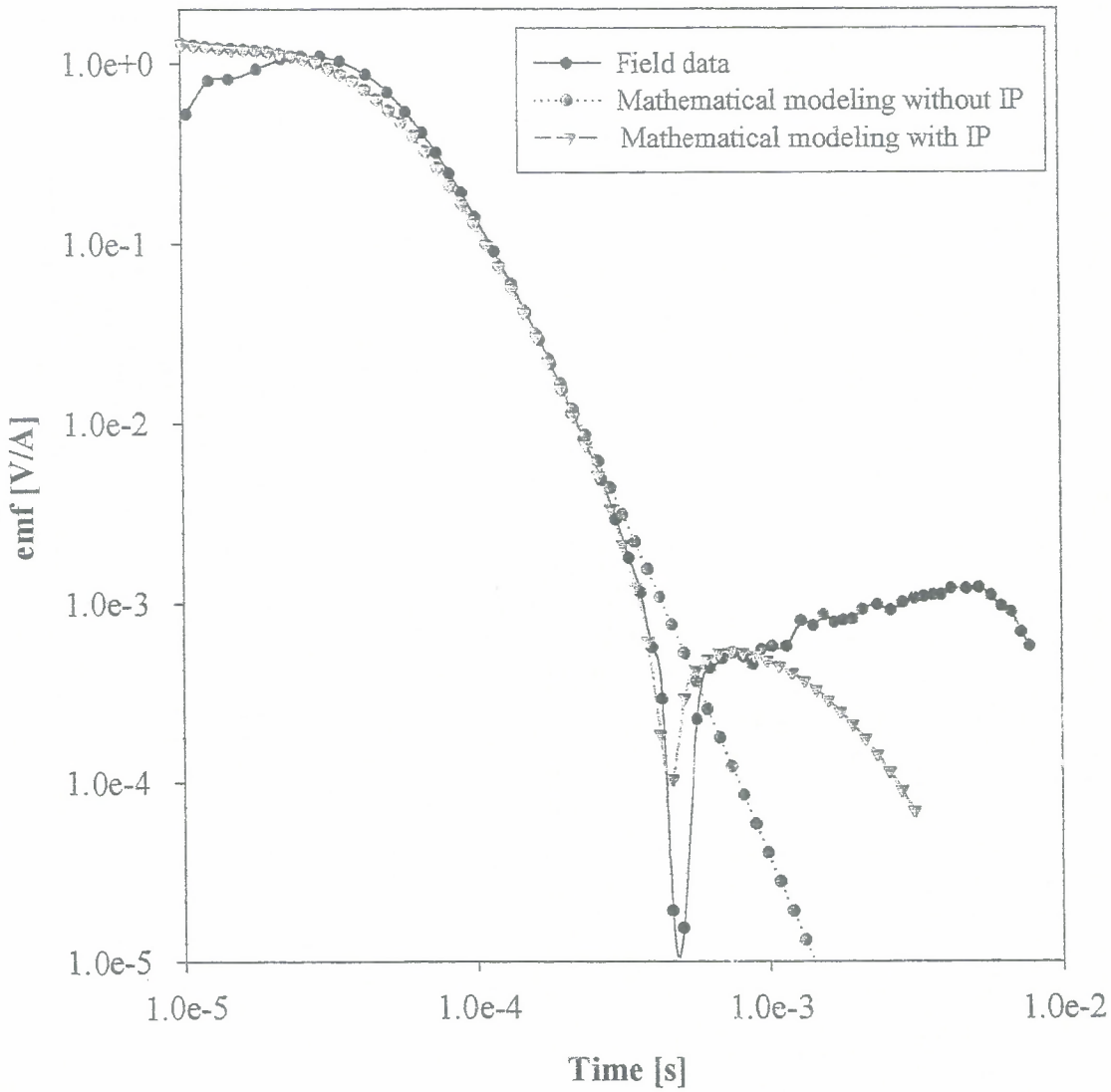
TDEM 30



TDEM 30

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	6.5	15	0.15	15
2	23	1	1.2	16

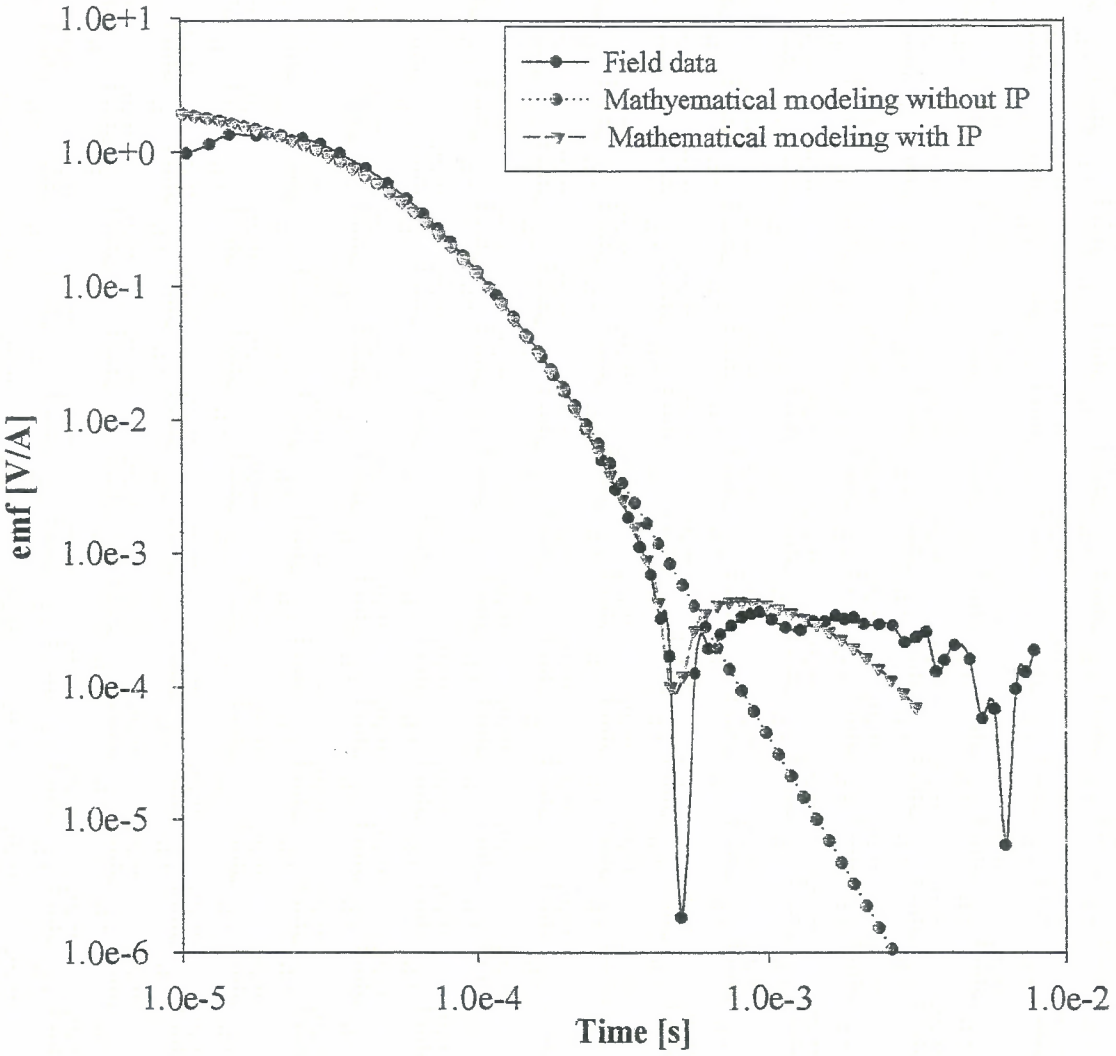
TDEM 31



TDEM 31

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	8	11	-	-
2	33	4	-	-
3	48	6	1.2	15

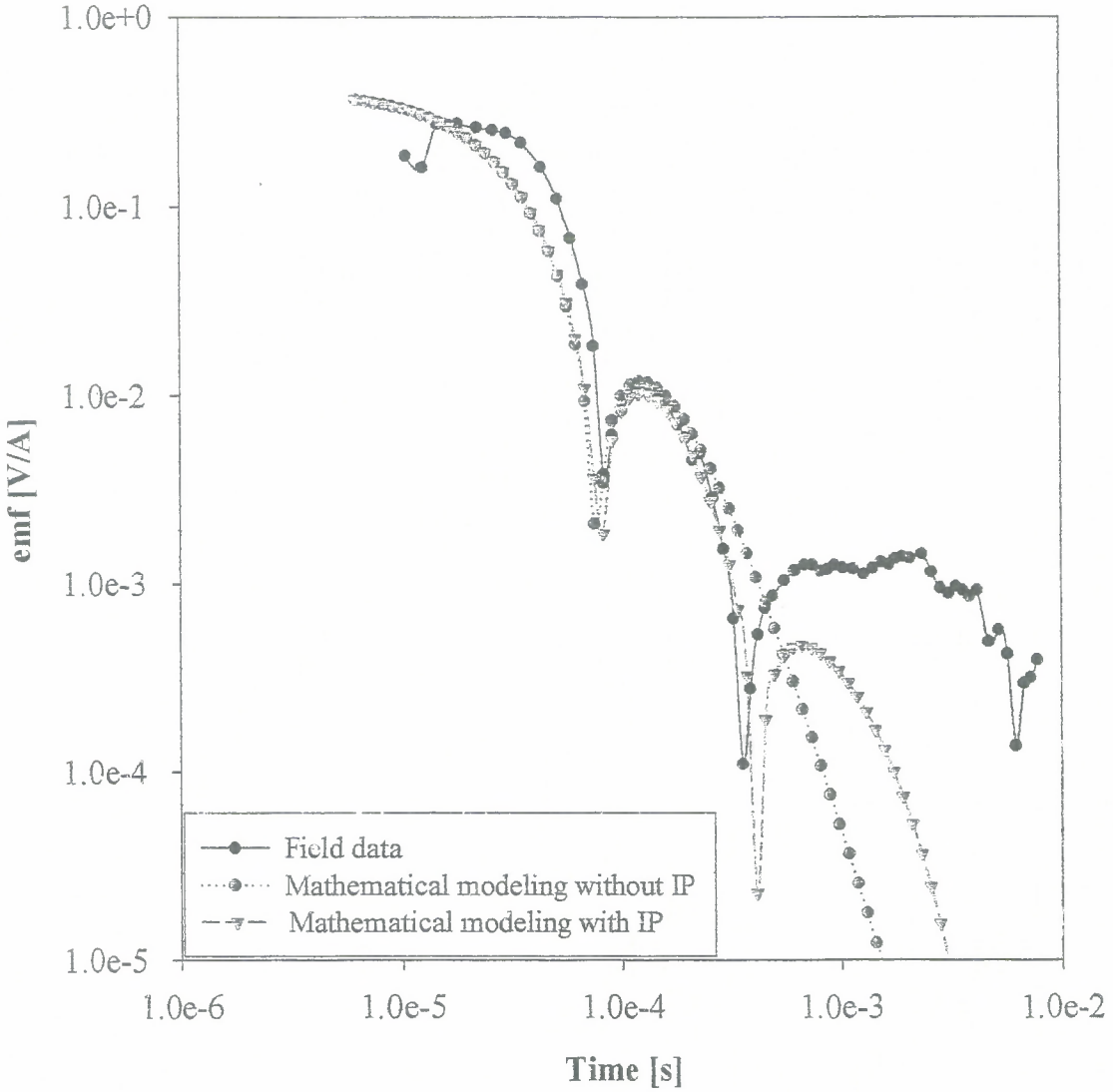
TDEM 31a



TDEM 31a

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	7	10	-	-
2	33	4	-	-
3	48	6	1.2	14

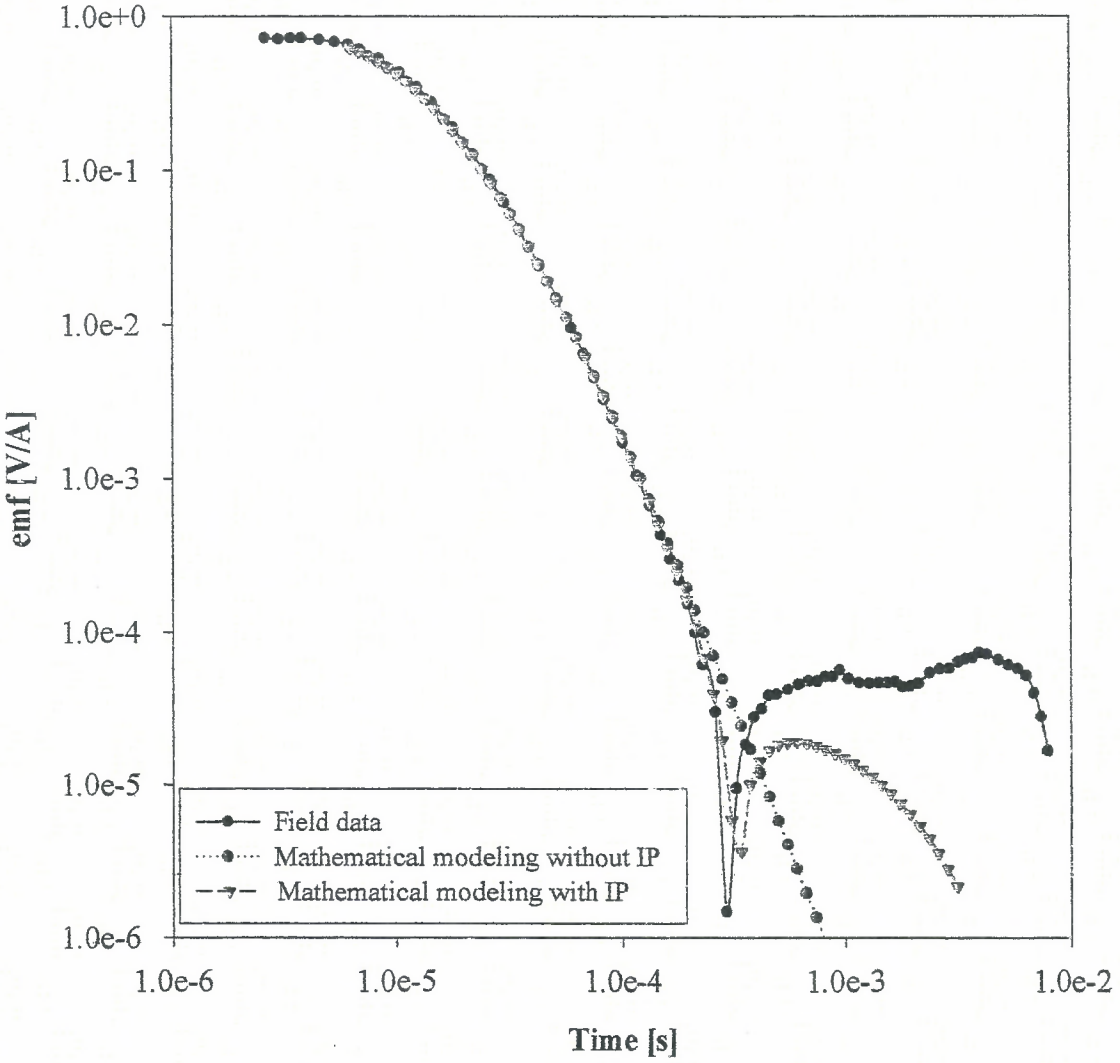
TDEM 31b



TDEM 31b perhabs distortion.

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	6.5	15	0.8	40

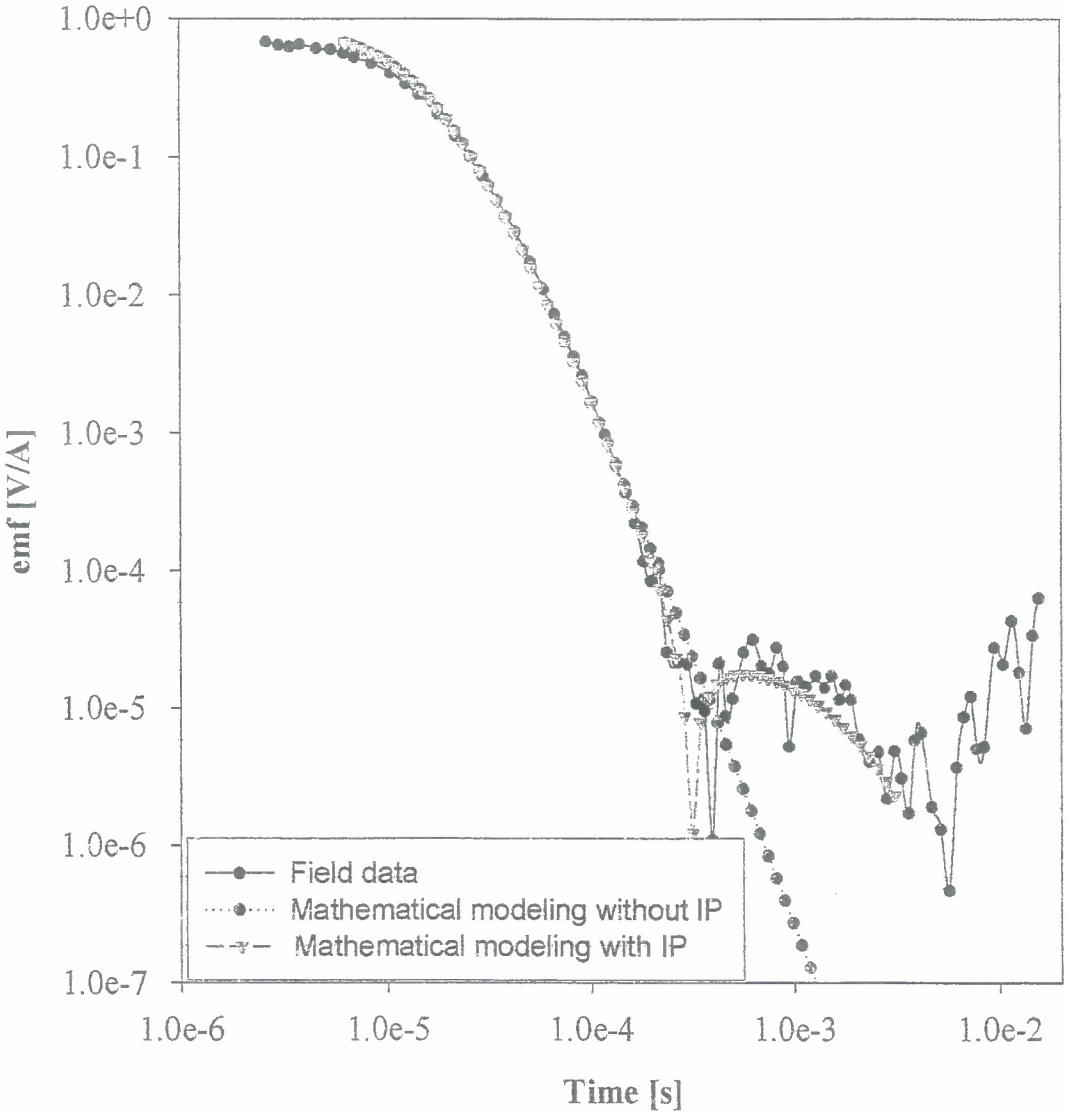
TDEM 32



TDEM 32

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	14.5	12	-	-
2	33	4	-	-
3	48	6	1.2	12

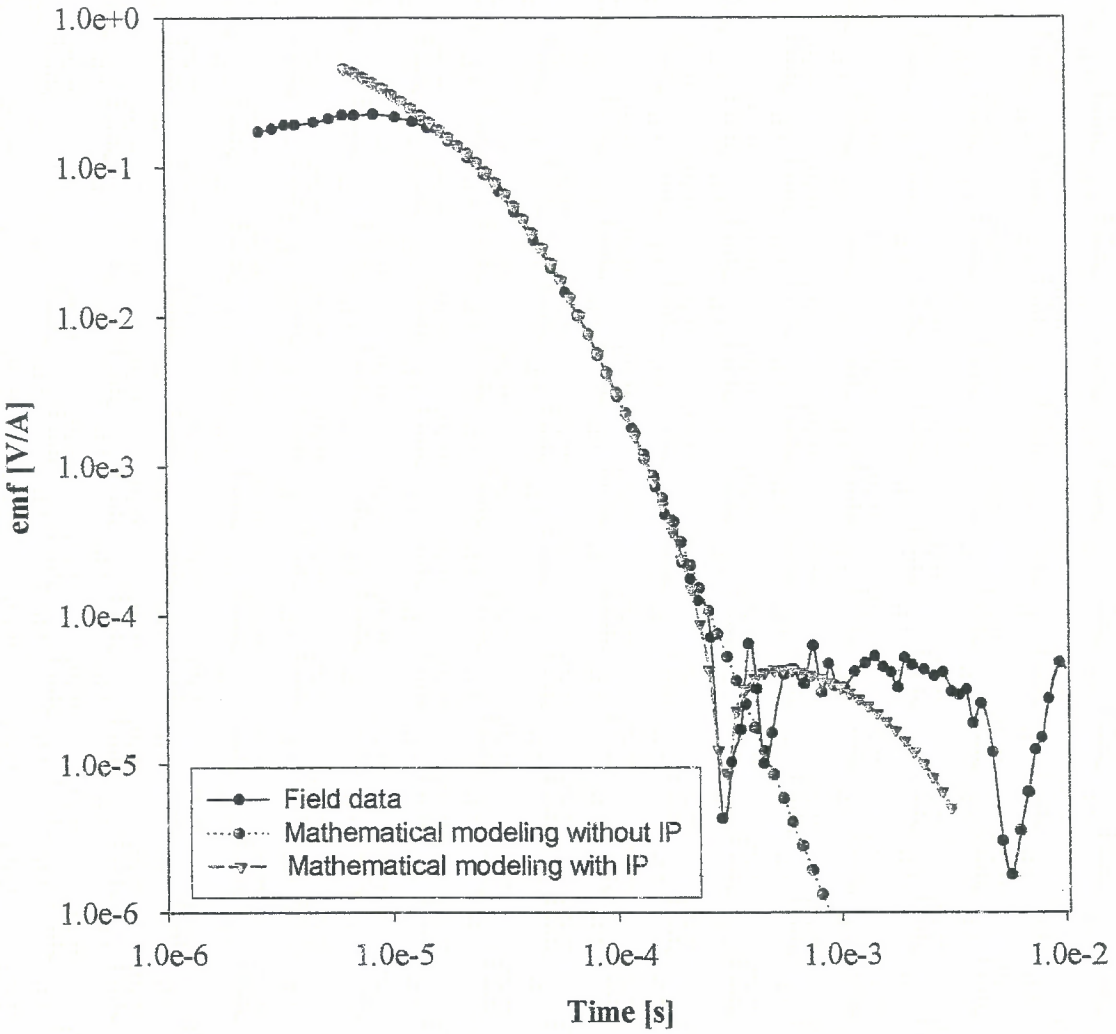
TDEM 34



TDEM 34

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10.5	9	-	-
2	33	3	-	-
3	48	8	1.2	3

TDEM 36

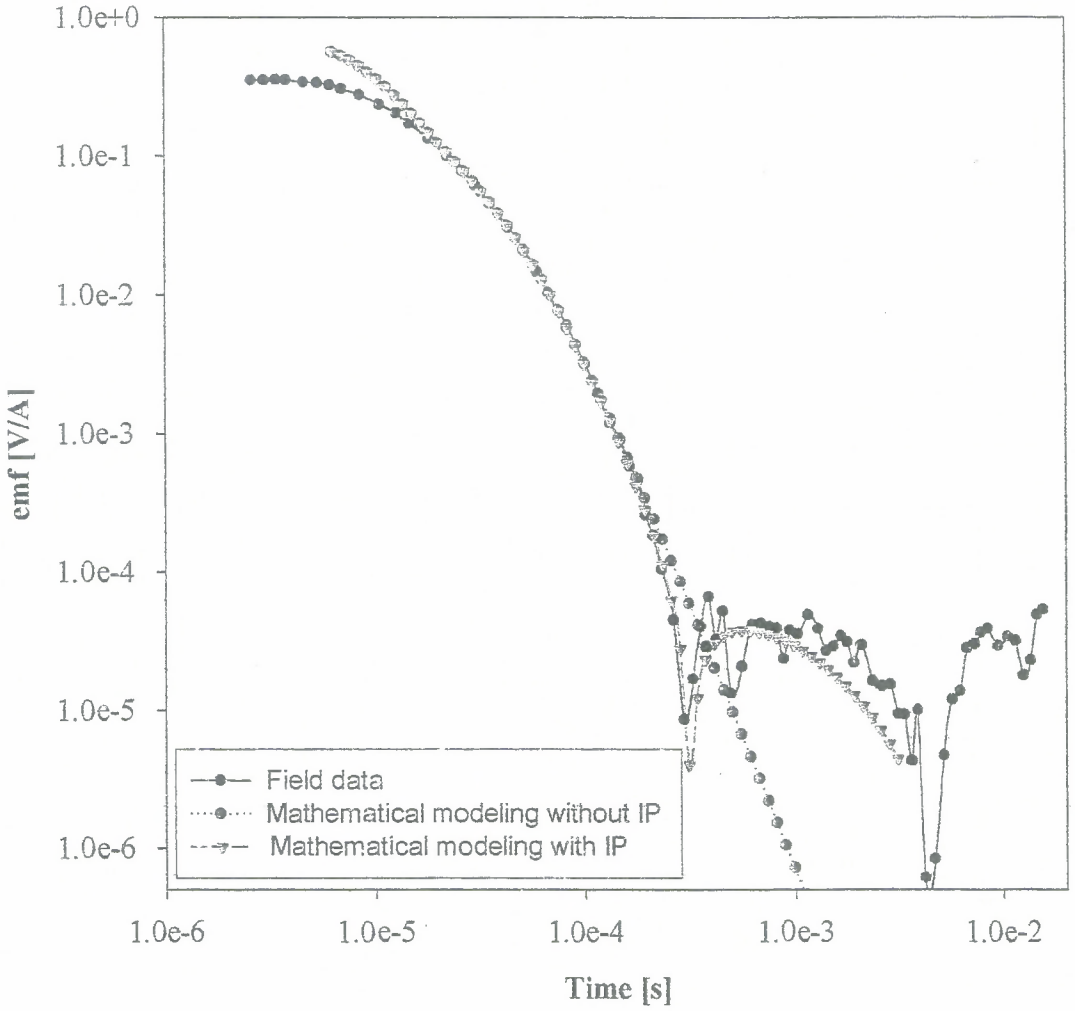


TDEM 36

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	16.5	7.5	-	-
2	33	10	-	-
3	48	5	1.2	~7

]

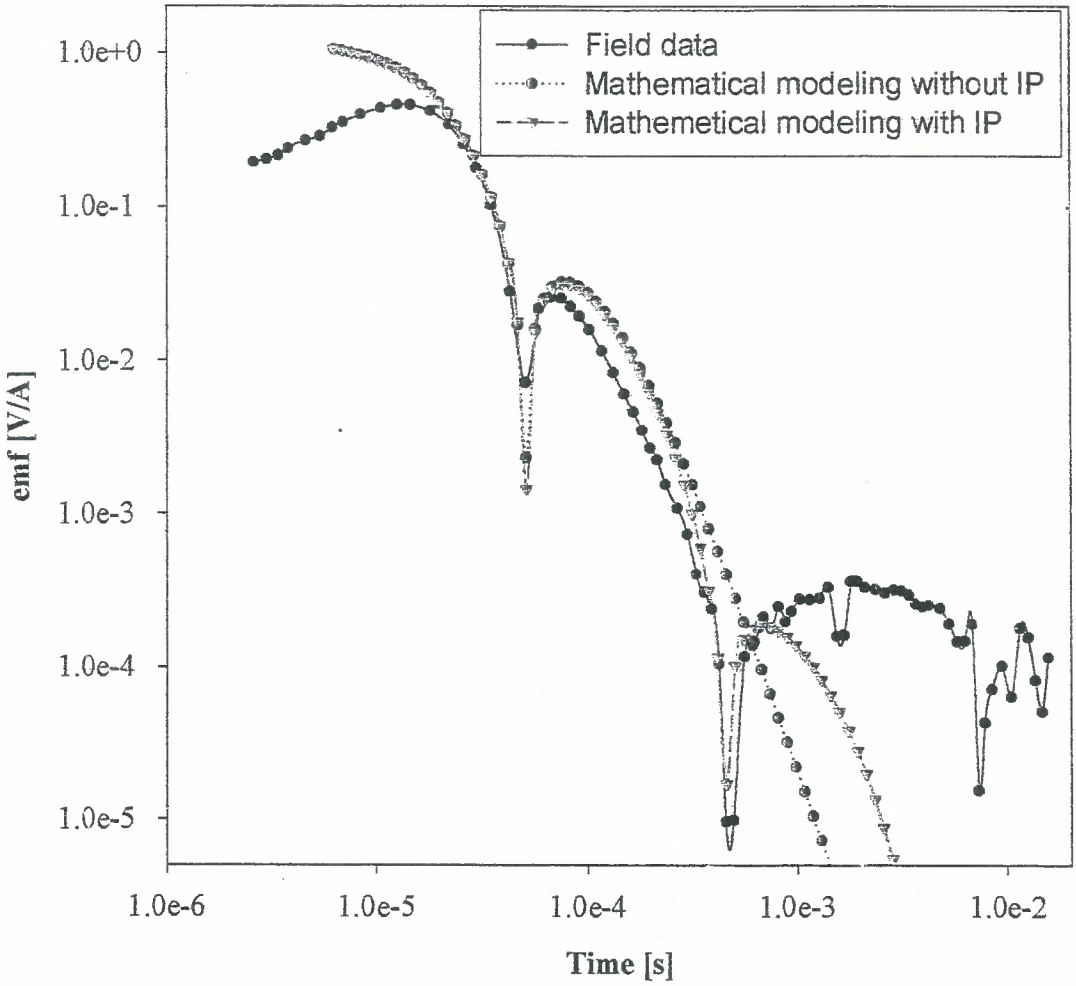
TDEM 36a



TDEM 36a

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	16.5	7.5	-	-
2	33	10	-	-
3	48	7	1.4	5

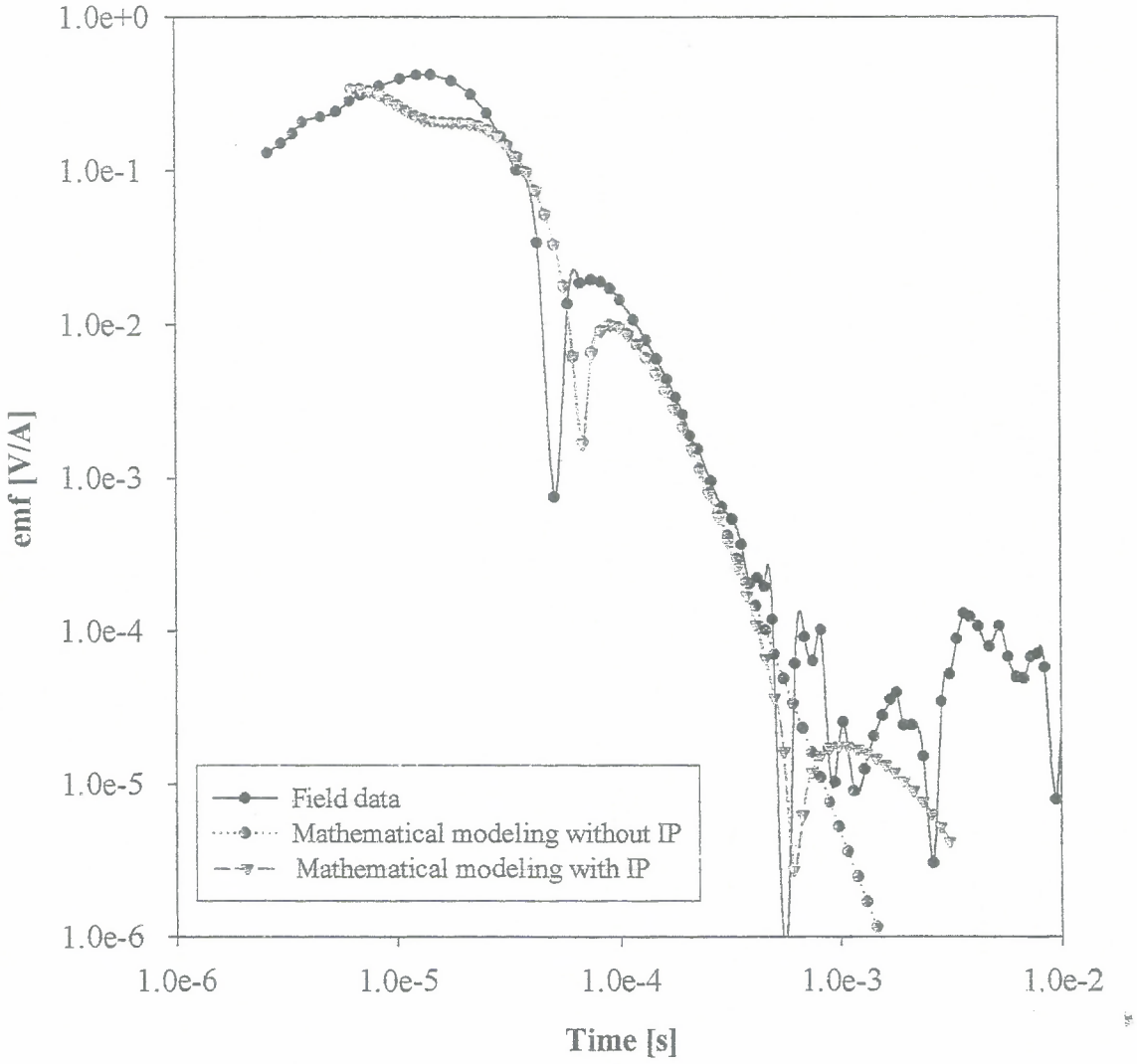
TDEM 37



TDEM 37

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	7.5	10	-	-
2	23	2	0.8	9

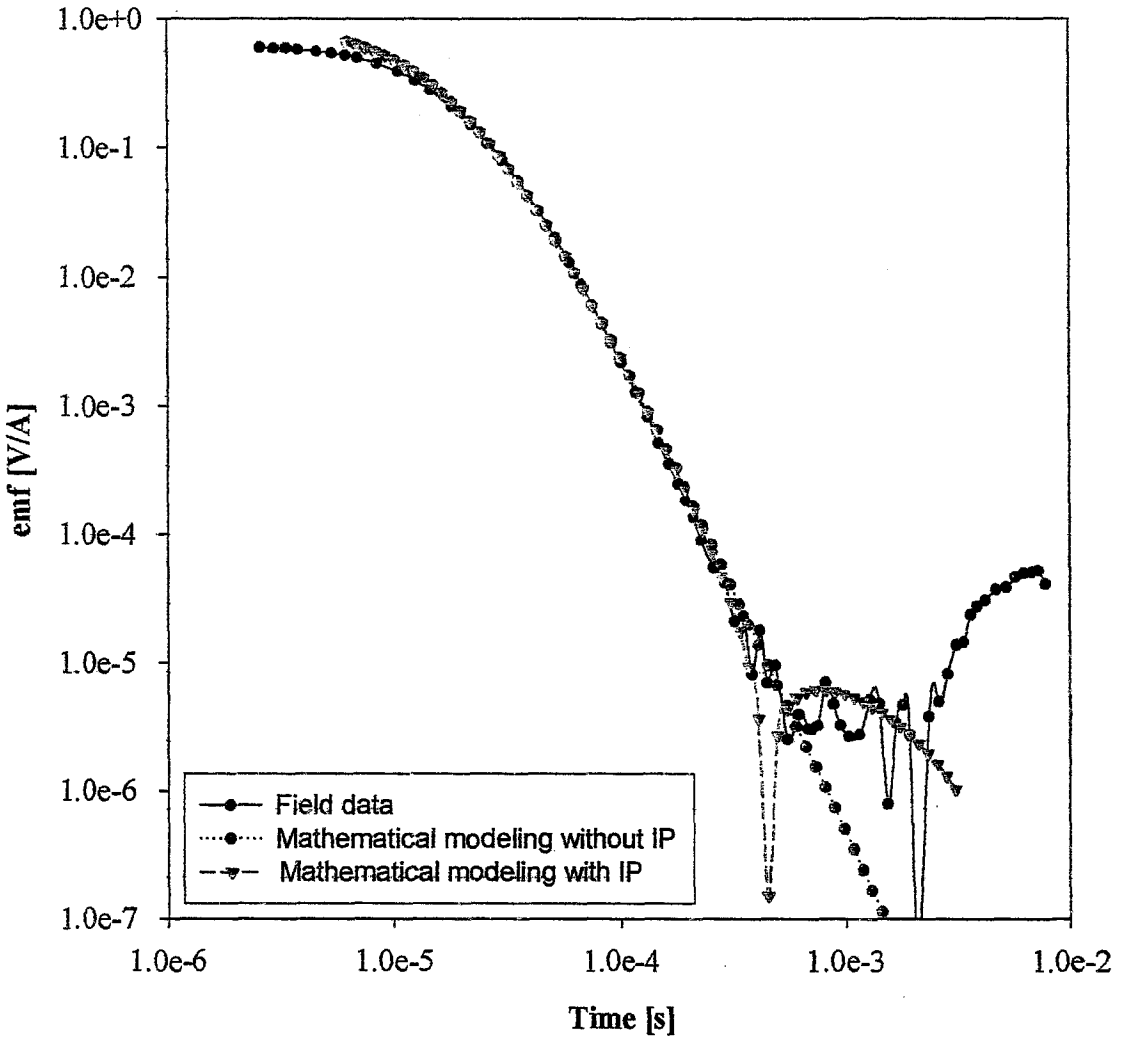
TDEM 38



TDEM 38

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	7.53	10	-	-
2	23	2	0.8	4

TDEM 39



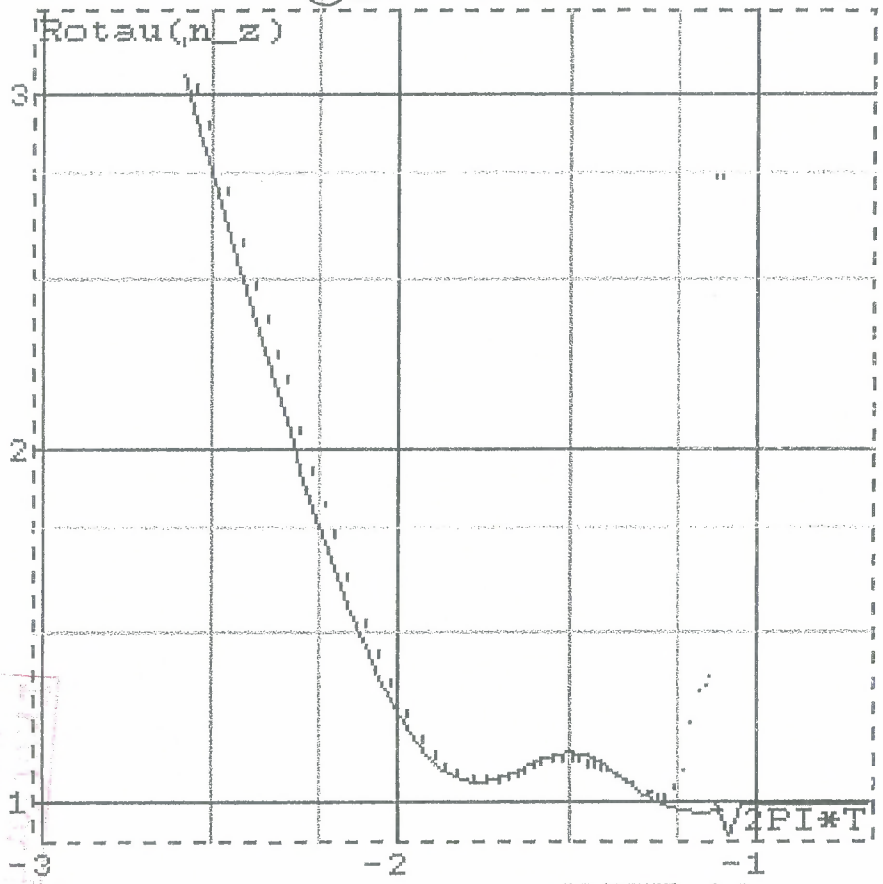
TDEM 39

№ of layers	ρ resistivity (Ω·m)	h thickness, m	τ decay constant (msec)	η polarizability (%)
1	10.5	9.5	-	-
2	33	8	-	-
3	48	7	1.2	3

ТЕМ 40

Графический подбор

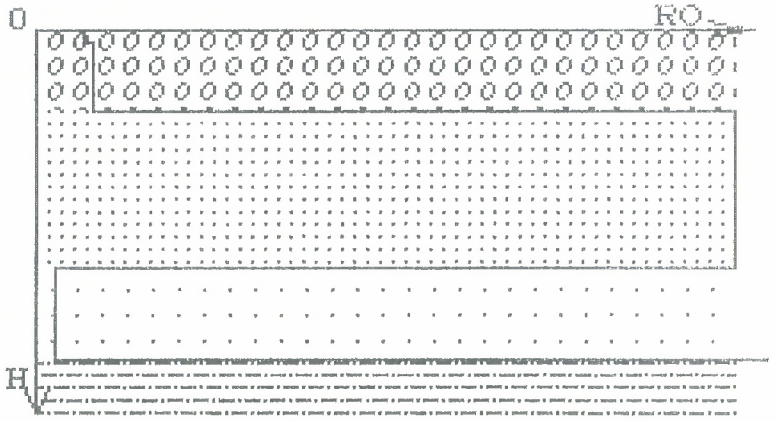
Пикет: va3040_3; Профиль: Номер



	ρ	depth
1	7.00	2.00
2	8.00	14.50
3	100.00	43.00
4	2.50	60.00
5	2000.00	

Целевая функция = .4037E+11

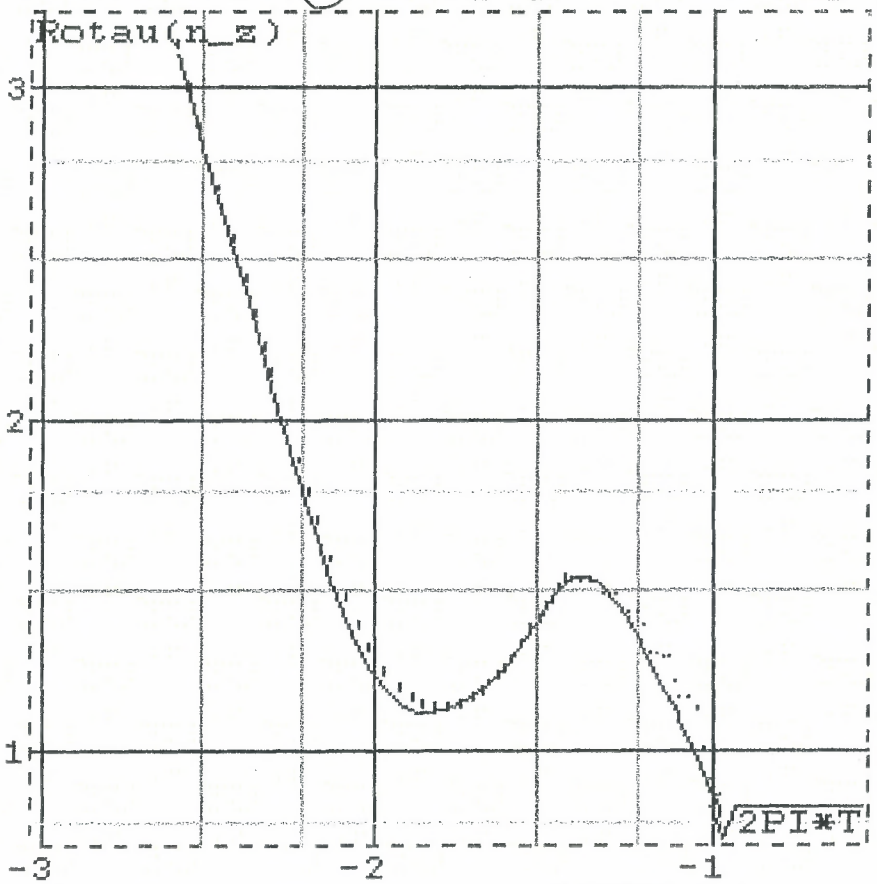
<Shift>+<PtScreen> - печать, иначе - выход



TEM 41

Графический подбор

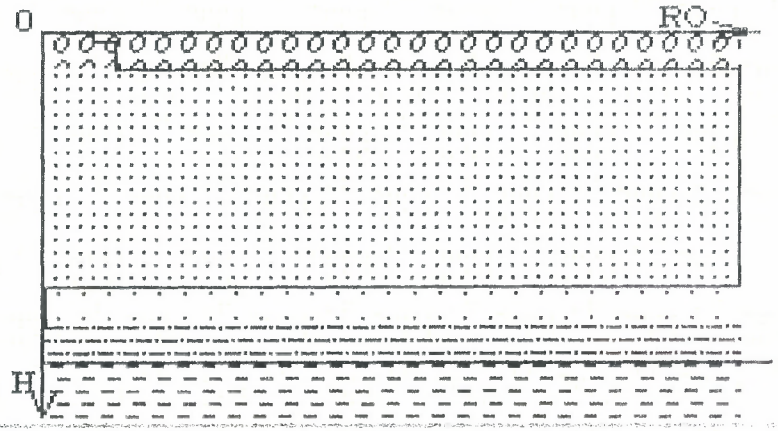
Пикет: va3041b1; Профиль: Номер



Целевая функция = .2055E+06

<Shift>+<PtScreen> - печать, иначе - выход

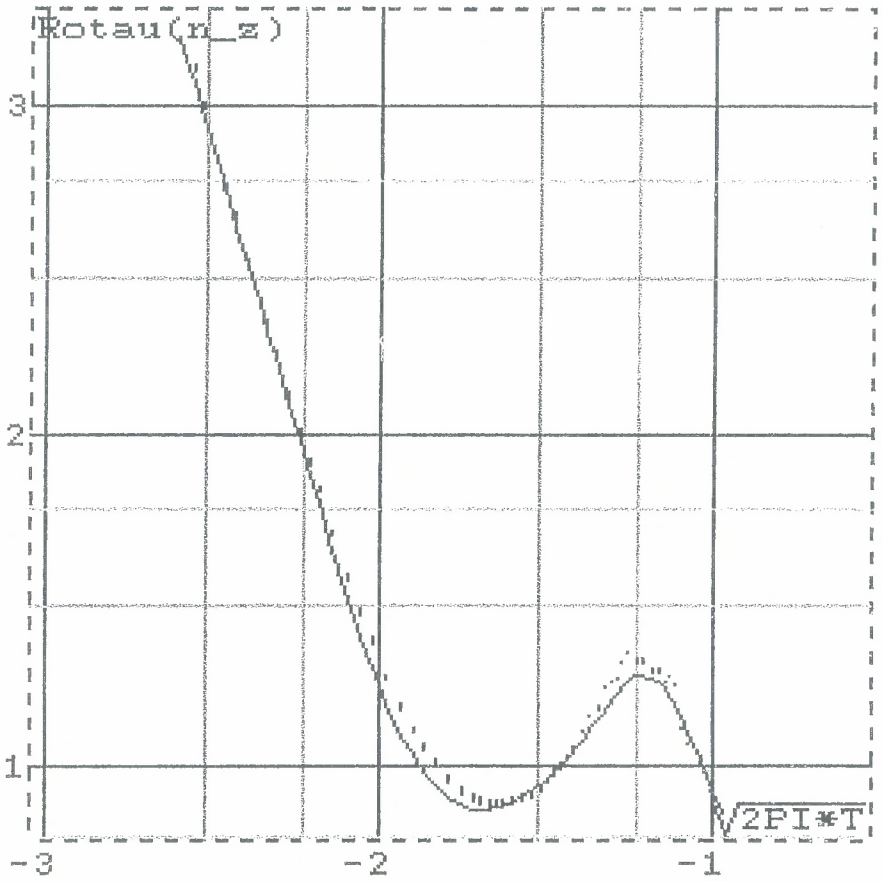
	ρ	Глубина
1	6.00	2.40
2	8.50	10.00
3	83.00	69.00
4	.20	80.00
5	.10	90.00
6	2000.00	



ТЕМ 42

Графический подбор

Пикет: va3042_1; Профиль: Номер



Целевая функция = .6426E+05

<Shift>+<PtScreen> - печать, иначе - выход

	ρ	dep th
1	4.40	0.00
2	10.00	19.00
3	110.00	80.00
4	.20	100.00
5	2000.00