

Comune di Empoli

Provincia di Firenze

INDAGINE GEOFISICA

PROSPEZIONE SISMICA A RIFRAZIONE CON ONDE P E SH

Committente: IMMARTIN s.r.l.

Ottobre 2007

Via S. Ferrante n.5 – 50053 EMPOLI (FI)
Via G. di Vittorio n.41/B – 51035 LAMPORECCHIO (PT)
Via Ponte a Elsa a Brusiana n.19 – 50057 Ponte a Elsa EMPOLI (FI)

ANALISI SISMICA A RIFRAZIONE

ONDE P

CANTIERE: CARRAIA, COMUNE DI EMPOLI

POSIZIONE DEGLI SPARI

Ascissa [m]	Quota [m]	Nome File
61.00	1.00	ped1.dat
47.00	1.00	pb.dat
23.00	0.00	pc.dat
-1.00	0.00	pa.dat
-5.00	0.00	pes1.dat

POSIZIONE DEI GEOFONI E PRIMI ARRIVI

N.	Ascissa [m]	Quota [m]	FBP da 61 [ms]	FBP da 47 [ms]	FBP da 23 [ms]	FBP da -1 [ms]	FBP da -5 [ms]
1	0.00	0.00	56.47	42.68	30.75	10.00	13.88
2	2.00	0.00	55.88	41.92	30.00	14.88	18.13
3	4.00	0.00	54.24	41.36	28.88	18.25	21.88
4	6.00	0.00	53.07	40.63	27.50	20.50	24.63
5	8.00	0.00	51.12	39.91	26.38	22.50	25.75
6	10.00	0.00	50.34	39.20	25.00	23.63	27.29
7	12.00	0.00	51.01	38.50	23.25	24.88	28.44
8	14.00	0.00	50.25	37.63	22.50	25.63	30.75
9	16.00	0.00	48.90	36.93	20.75	27.13	31.52
10	18.00	0.00	48.90	35.88	18.50	28.13	32.29
11	20.00	0.00	46.57	33.60	14.38	29.75	33.83
12	22.00	0.00	45.41	31.97	3.74	30.63	35.36
13	24.00	0.00	43.08	31.35	3.79	31.88	36.90
14	26.00	0.00	41.91	29.32	14.25	33.13	38.05
15	28.00	0.00	40.75	28.07	18.63	34.25	38.44
16	30.00	0.00	38.42	26.36	21.88	36.00	39.98
17	32.00	0.00	36.88	24.64	22.88	37.63	41.90
18	34.00	0.00	36.13	23.40	24.00	38.88	43.82
19	36.00	0.00	35.38	22.00	25.50	39.63	44.97
20	38.00	0.33	34.63	16.69	26.38	40.63	45.74
21	40.00	0.67	32.25	12.13	27.63	41.88	46.89
22	42.00	1.00	30.75	8.89	29.25	44.13	48.82
23	44.00	1.00	28.50	4.88	30.13	44.63	50.35
24	46.00	1.00	24.63	2.18	31.13	45.63	51.88

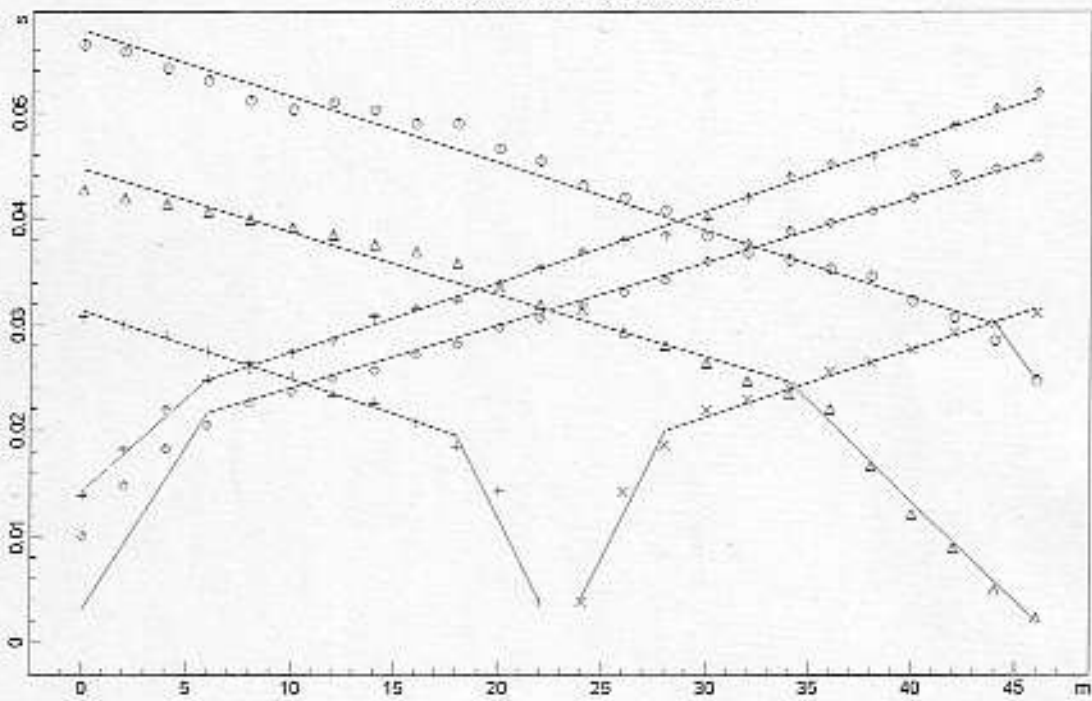
DISTANZA DEI RIFRATTORI DAI GEOFONI

N. Geof.	Dist. Rifr. 1 [m]
1	2.8
2	2.9
3	2.9
4	2.9
5	2.9
6	2.9
7	3.0
8	3.1
9	3.0
10	3.0
11	3.0
12	2.9
13	2.9
14	2.8
15	2.6
16	2.6
17	2.6
18	2.6
19	2.6
20	3.0
21	3.1
22	3.4
23	3.2
24	3.1

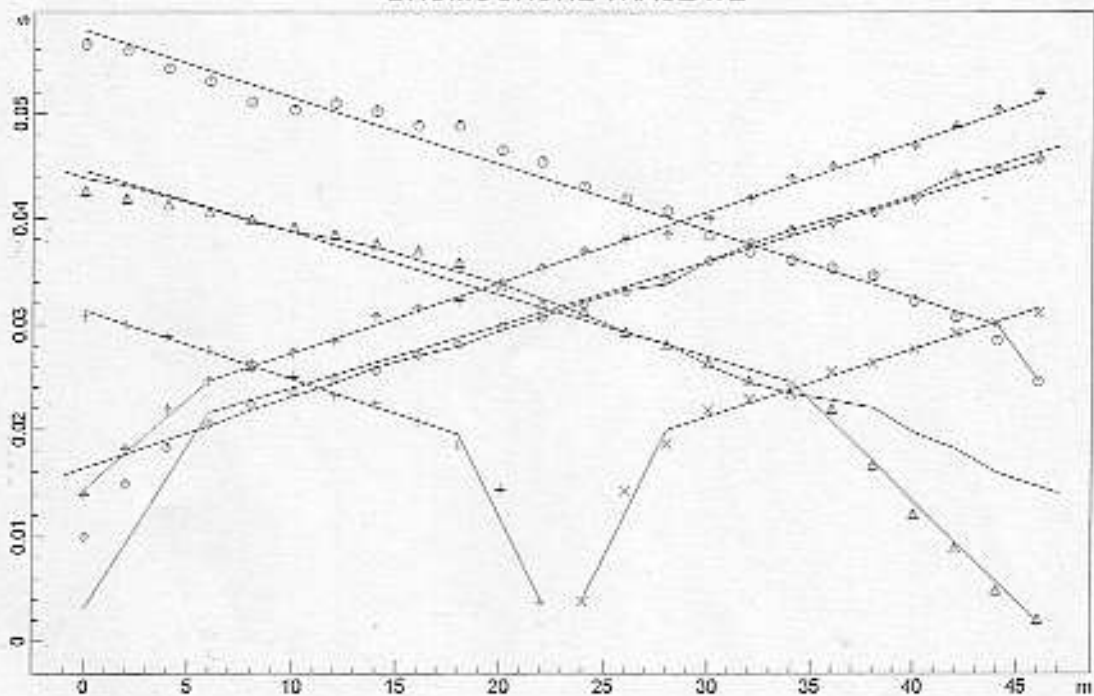
VELOCITA' DEGLI STRATI

N. Strato	Velocità [m/s]
1	347.3
2	1549.4

DROMOCRONE ORIGINALI

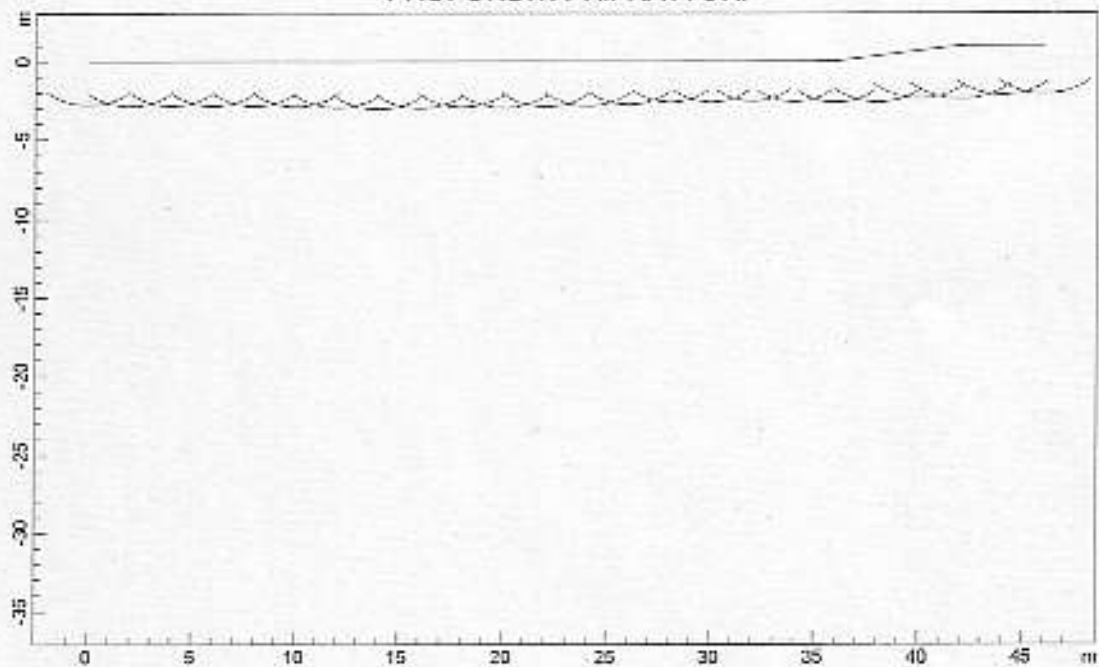


DROMOCRONE TRASLATE

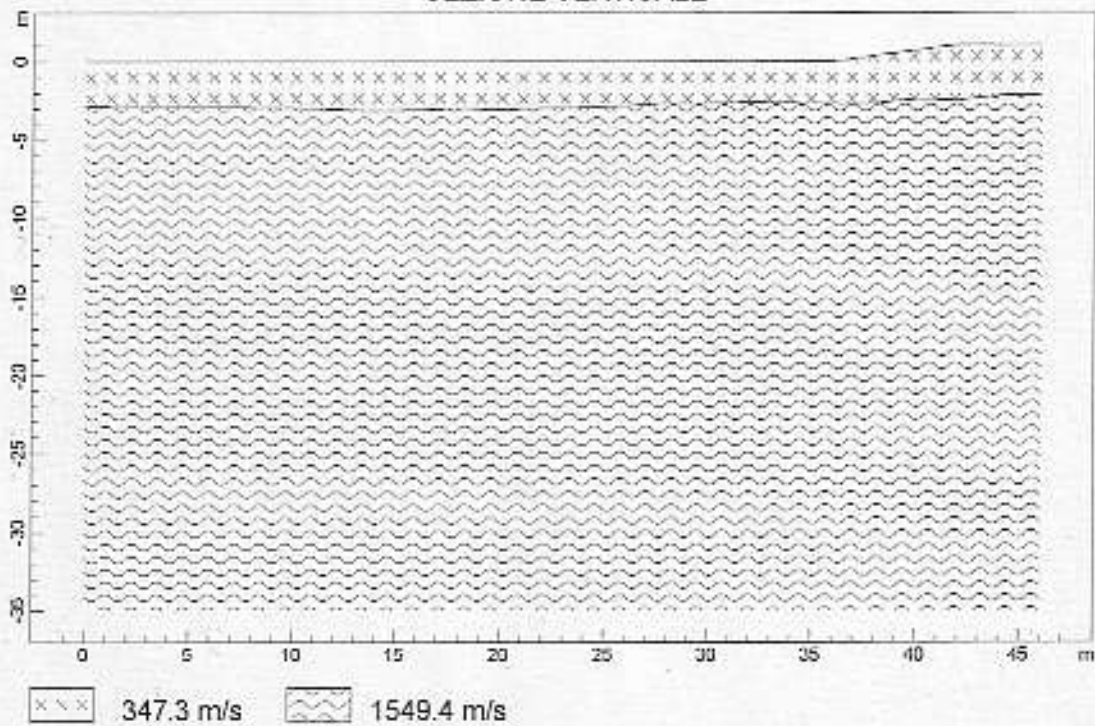


www.geondsoft.com

PROFONDITA' RIFRATTORI



SEZIONE VERTICALE



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ANALISI SISMICA A RIFRAZIONE

ONDE SH

CANTIERE: CARRAIA, COMUNE DI EMPOLI

POSIZIONE DEGLI SPARI

Ascissa [m]	Quota [m]	Nome File
-5.00	0.00	Esp.dat
-1.00	0.00	Ap.dat
47.00	1.00	Bp.dat
61.00	1.00	Edn.dat
23.00	0.00	Cn.dat

POSIZIONE DEI GEOFONI E PRIMI ARRIVI

N.	Ascissa [m]	Quota [m]	FBP da -5 [ms]	FBP da -1 [ms]	FBP da 47 [ms]	FBP da 61 [ms]	FBP da 23 [ms]
1	0.00	0.00	88.30	8.88	358.25	399.40	186.81
2	2.00	0.00	104.70	44.50	350.50	390.10	176.82
3	4.00	0.00	115.70	58.63	333.63	379.10	160.67
4	6.00	0.00	132.90	75.88	324.38	368.20	147.60
5	8.00	0.00	150.10	89.88	310.63	358.00	137.61
6	10.00	0.00	160.20	105.50	300.95	336.90	122.23
7	12.00	0.00	170.40	118.88	284.53	321.30	109.93
8	14.00	0.00	182.90	129.00	267.33	310.30	93.02
9	16.00	0.00	199.30	145.38	252.48	298.60	79.18
10	18.00	0.00	210.30	159.50	236.85	284.50	60.73
11	20.00	0.00	229.00	176.63	218.38	275.20	49.20
12	22.00	0.00	249.40	193.88	201.67	258.00	13.66
13	24.00	0.00	276.70	201.63	189.13	247.80	17.53
14	26.00	0.00	287.70	213.38	173.75	233.70	46.89
15	28.00	0.00	297.00	226.63	158.38	218.90	62.27
16	30.00	0.00	309.50	238.38	143.00	204.00	75.34
17	32.00	0.00	321.30	268.12	132.25	192.30	91.48
18	34.00	0.00	329.90	281.40	121.50	177.40	109.93
19	36.00	0.00	351.80	290.00	104.50	163.40	119.16
20	38.00	0.33	362.70	293.91	96.88	150.90	131.46
21	40.00	0.67	371.30	311.11	80.00	139.90	147.60
22	42.00	1.00	379.10	318.14	67.63	123.50	160.67
23	44.00	1.00	387.70	333.78	43.00	111.00	172.20
24	46.00	1.00	401.00	346.28	11.88	96.90	186.81

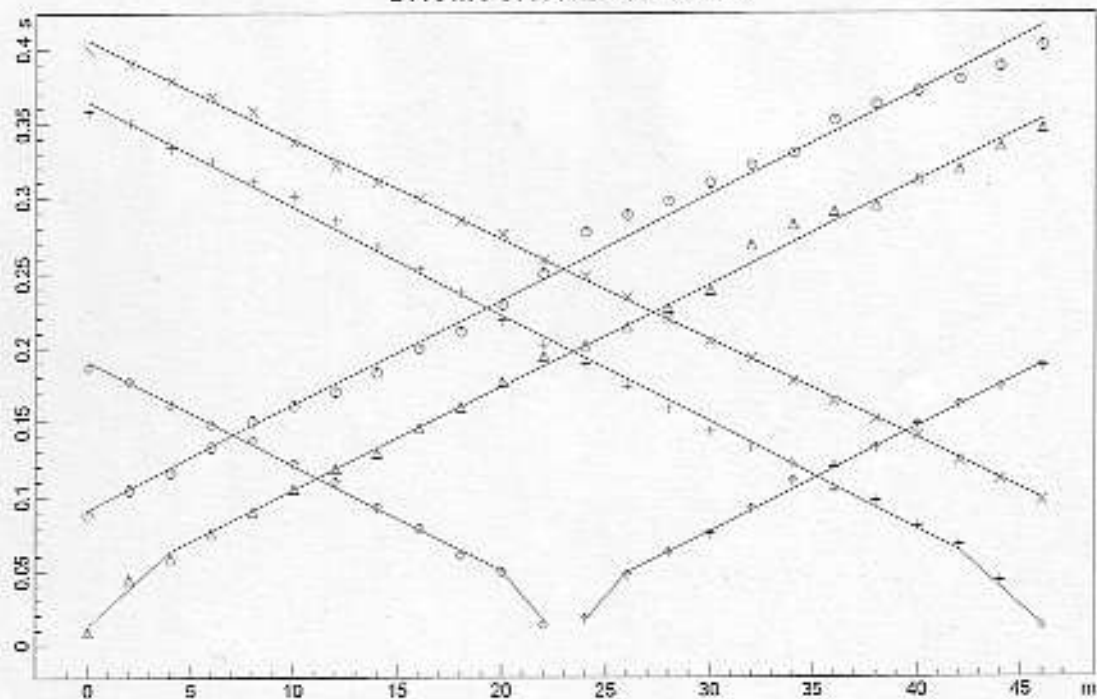
DISTANZA DEI RIFRATTORI DAI GEOFONI

N. Geof.	Dist. Rifr. 1 [m]
1	1.2
2	1.5
3	1.3
4	1.6
5	1.7
6	1.5
7	1.4
8	1.2
9	1.3
10	1.1
11	1.3
12	1.3
13	1.5
14	1.3
15	1.1
16	1.0
17	1.3
18	1.3
19	1.1
20	1.4
21	1.7
22	1.8
23	1.8
24	1.8

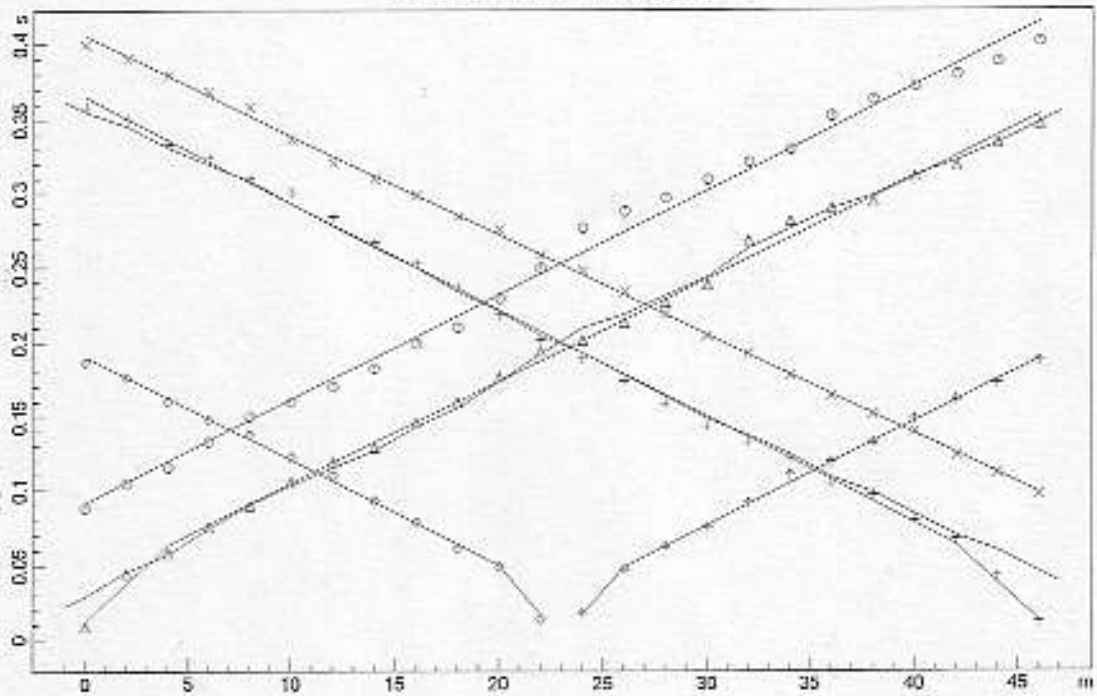
VELOCITA' DEGLI STRATI

N. Strato	Velocità [m/s]
1	68.6
2	144.6

DROMOCRONE ORIGINALI

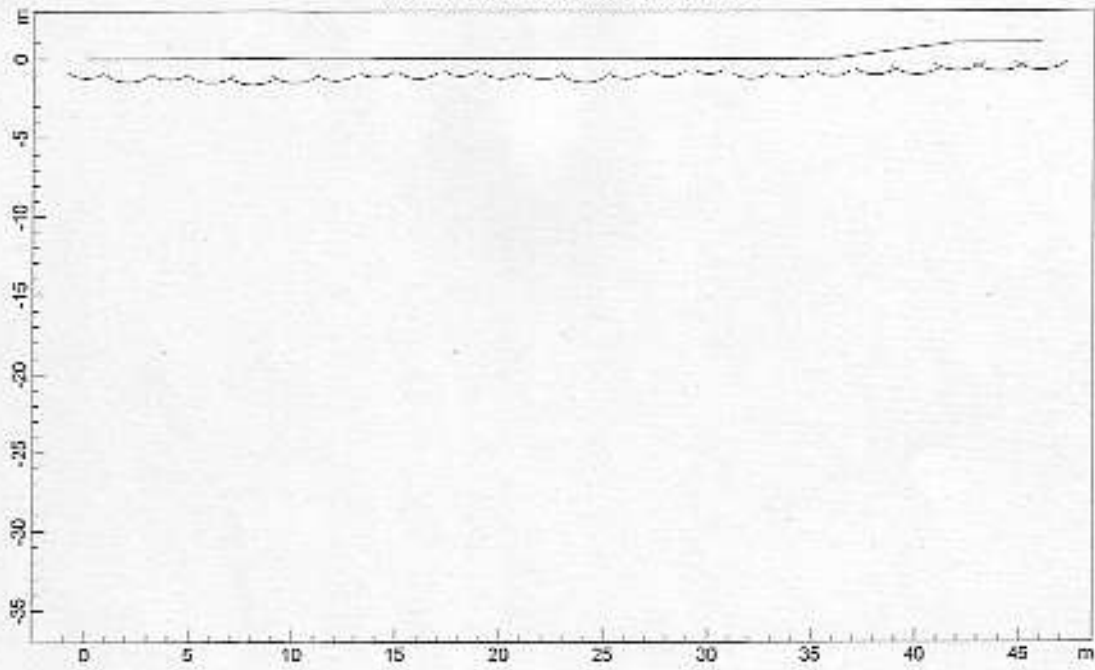


DROMOCRONE TRASLATE

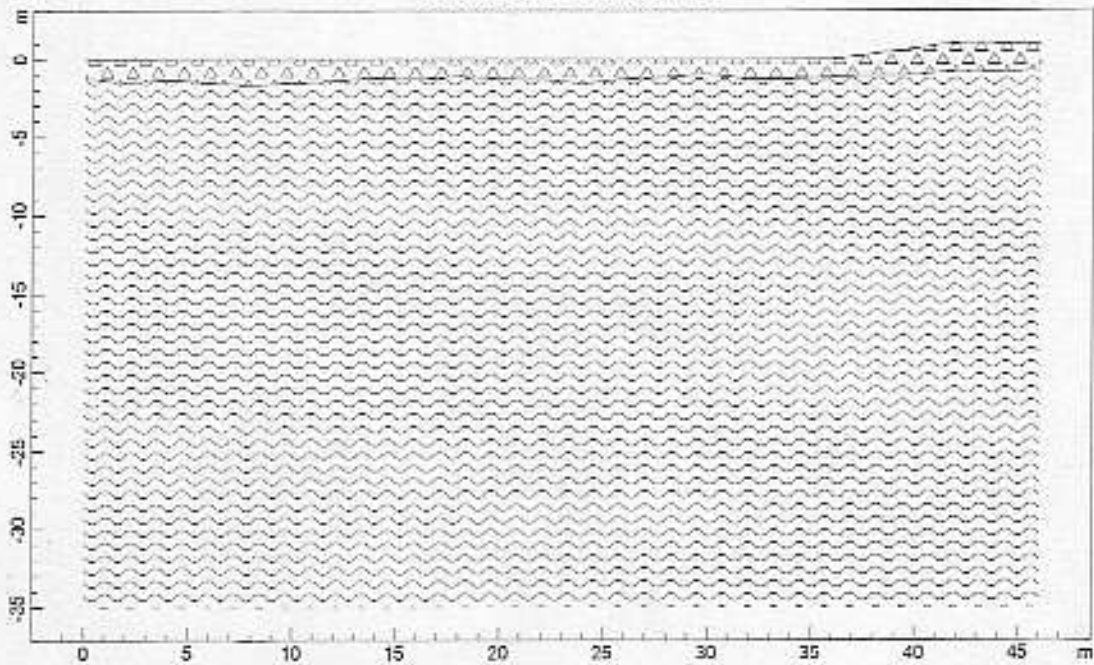


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PROFONDITA' RIFRATTORI



SEZIONE VERTICALE



68.6 m/s



144.6 m/s

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