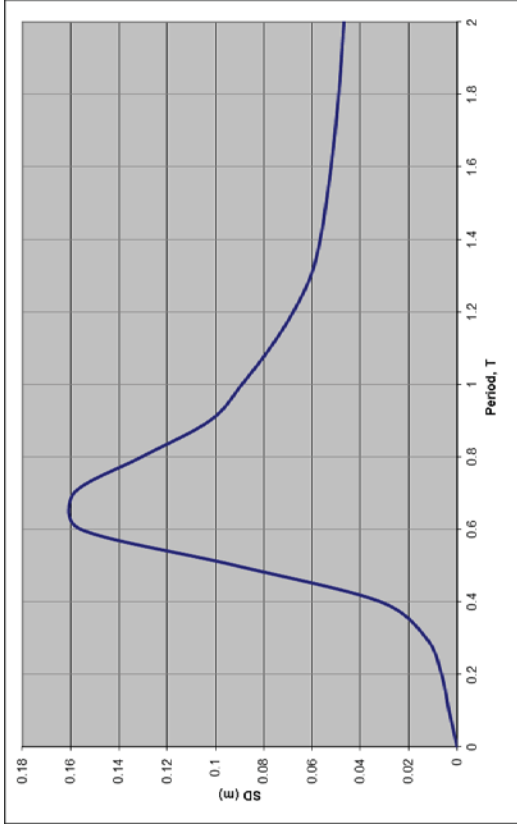


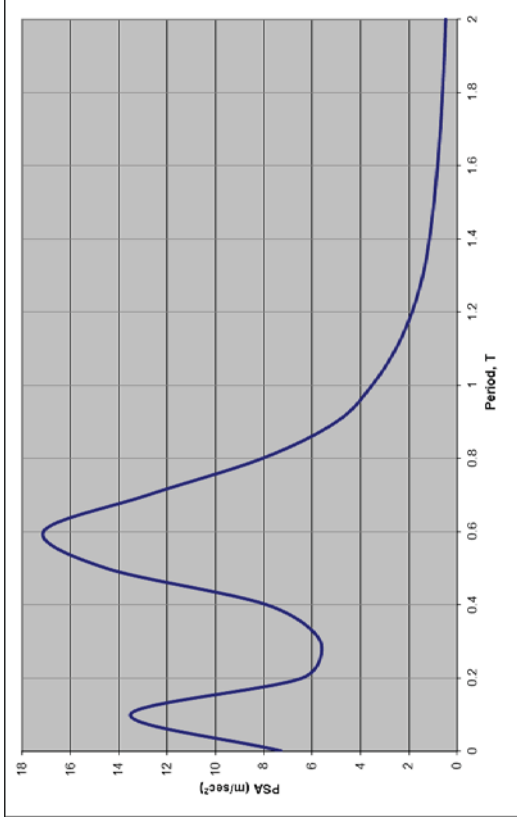
ΛΥΣΗ

Οι τιμές των ελαστικών φασμάτων απόκρισης και τα διαγράμματά τους δίνονται στον παρακάτω πίνακα και αντίστοιχα στα σχήματα 1 έως 4.

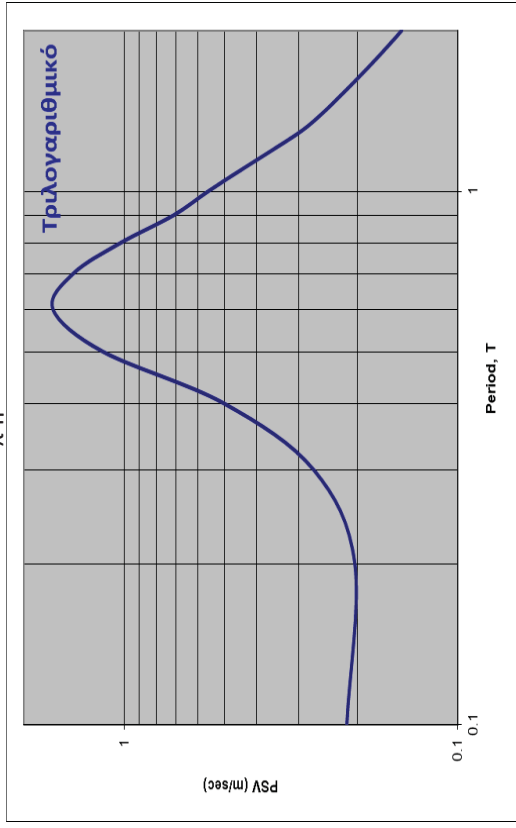
T (sec)	SD (m)	PSV (m/s)	PSA (m/s ²)
0	0	0	7.269036781
0.1	0.003423783	0.215122603	13.51655182
0.2	0.006477089	0.203483763	6.392630964
0.3	0.012890793	0.269984134	5.654534489
0.4	0.031978759	0.502321178	7.890442608
0.5	0.092121515	1.157633101	14.54724658
0.6	0.156114042	1.634822429	17.11982044
0.7	0.15862124	1.423780925	12.7798277
0.8	0.13043704	1.024450118	8.046012409
0.9	0.102211051	0.71356775	4.98164267
1	0.089016794	0.559309011	3.514242159
1.1	0.077416496	0.442201993	2.52585188
1.2	0.067798399	0.354991588	1.858731606
1.3	0.060502708	0.292422867	1.413343895
1.4	0.05665785	0.254279838	1.141205245
1.5	0.054207586	0.227064205	0.951124316
1.6	0.052161828	0.204839019	0.804400945
1.7	0.05046557	0.18652031	0.689377452
1.8	0.049044477	0.171197522	0.597592087
1.9	0.047858865	0.158266376	0.523377353
2	0.04687059	0.147248302	0.462594182



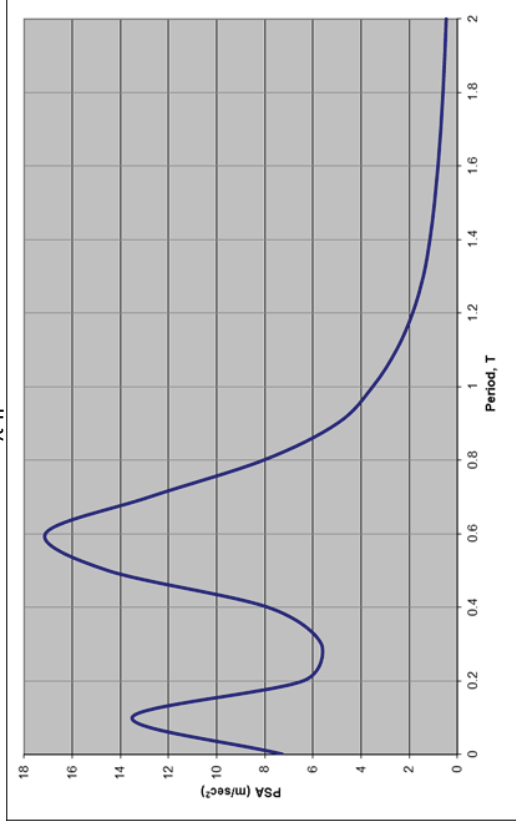
Σχήμα 1



Σχήμα 2



Σχήμα 3



Σχήμα 4

Ενδεικτικά δίνεται η επίλυση για T=0.1sec.

$$u_{i+1} = \frac{\hat{p}_i}{\hat{k}} \quad \hat{p}_i = -m\ddot{x}_{g,i} - \left[\frac{m}{(\Delta t)^2} - \frac{C}{2\Delta t} \right] u_{i-1} - \left[K - \frac{2m}{(\Delta t)^2} \right] u_i \quad \hat{k} = \frac{m}{(\Delta t)^2} + \frac{C}{2\Delta t}$$

$$u_{-1} = u_0 - (\Delta t)\dot{u}_0 + \frac{(\Delta t)^2}{2}\ddot{u}_0 \quad \ddot{u}_0 = \frac{-m\ddot{x}_{g,0} - C\dot{u}_0 - Ku_0}{m}$$

t(sec)		a _g (m/s ²)	p'	u
				0
0		6.12574E-17	-6.1E-17	0
0.01		0.012373864	-0.01237	-5.9E-21
0.02		0.023994887	-0.04325	-1.2E-06
0.03		0.03413002	-0.08982	-4.2E-06
0.04		0.042085394	-0.14126	-8.7E-06
0.05		0.047224911	-0.18272	-1.4E-05
0.06		0.048987654	-0.20071	-1.8E-05
0.07		0.046903757	-0.18768	-1.9E-05
0.08		0.040608404	-0.14421	-1.8E-05
0.09		0.029853661	-0.07805	-1.4E-05
0.1		0.014517875	-0.00056	-7.6E-06
0.11		-0.005387562	0.077807	-5.5E-08
0.12		-0.029714256	0.151336	7.54E-06
0.13		-0.058175779	0.220636	1.47E-05
0.14		-0.090349607	0.291614	2.14E-05
0.15		-0.125682051	0.372332	2.83E-05
0.16		-0.163496108	0.469115	3.61E-05
0.17		-0.203002147	0.583447	4.55E-05
0.18		-0.243311247	0.710805	5.66E-05
0.19		-0.283450989	0.841788	6.89E-05
0.2		-0.322383434	0.964974	8.16E-05
0.21		-0.359024987	1.070327	9.36E-05
0.22		-0.392267796	1.151852	0.000104
0.23		-0.421002317	1.208532	0.000112
0.24		-0.444140628	1.243322	0.000117
0.25		-0.460640087	1.260739	0.000121
0.26		-0.469526876	1.264063	0.000122
0.27		-0.469919002	1.253271	0.000123
0.28		-0.46104831	1.224484	0.000122
0.29		-0.442281076	1.171048	0.000119
0.3		-0.413136767	1.085775	0.000114
0.31		-0.373304588	0.96341	0.000105
0.32		-0.322657447	0.802403	9.34E-05
0.33		-0.261263028	0.60534	7.78E-05
0.34		-0.189391706	0.377973	5.87E-05
0.35		-0.107521061	0.127306	3.66E-05
0.36		-0.01633685	-0.14048	1.23E-05
0.37		0.083269699	-0.42146	-1.4E-05

0.38		0.190208305	-0.71421	-4.1E-05
0.39		0.303199755	-1.01895	-6.9E-05
0.4		0.420789653	-1.33591	-9.9E-05
0.41		0.541365655	-1.66359	-0.00013
0.42		0.663177993	-1.99774	-0.00016
0.43		0.784363019	-2.33124	-0.00019
0.44		0.90296947	-2.65508	-0.00023
0.45		1.016987064	-2.95993	-0.00026
0.46		1.124377026	-3.23765	-0.00029
0.47		1.223104096	-3.48231	-0.00031
0.48		1.311169512	-3.69035	-0.00034
0.49		1.386644474	-3.85984	-0.00036
0.5		1.44770354	-3.98932	-0.00037
0.51		1.492657429	-4.07663	-0.00039
0.52		1.519984677	-4.11823	-0.0004
0.53		1.528361611	-4.10936	-0.0004
0.54		1.516690127	-4.04483	-0.0004
0.55		1.484122775	-3.92016	-0.00039
0.56		1.430084695	-3.73269	-0.00038
0.57		1.354291966	-3.4822	-0.00036
0.58		1.256766024	-3.1709	-0.00034
0.59		1.137843807	-2.80271	-0.00031
0.6		0.998183379	-2.38237	-0.00027
0.61		0.838764849	-1.91453	-0.00023
0.62		0.66088645	-1.40327	-0.00019
0.63		0.467825315	-0.85386	-0.00014
0.64		0.264334745	-0.27544	-8.3E-05
0.65		0.033771581	0.339406	-2.7E-05
0.66		-0.224211889	1.011095	3.29E-05
0.67		-0.497228519	1.752088	9.8E-05
0.68		-0.762980743	2.540294	0.00017
0.69		-0.997578151	3.305741	0.000246
0.7		-1.186252848	3.945507	0.000321
0.71		-1.332038848	4.368159	0.000383
0.72		-1.458300658	4.551411	0.000424
0.73		-1.602970018	4.584373	0.000441
0.74		-1.805368578	4.665985	0.000444
0.75		-2.08952484	5.046199	0.000452
0.76		-2.449819737	5.921591	0.000489
0.77		-2.844804339	7.321916	0.000574
0.78		-3.202921461	9.037324	0.00071
0.79		-3.440150341	10.62926	0.000876
0.8		-3.485401976	11.54117	0.001031
0.81		-3.306212443	11.28625	0.001119
0.82		-2.926126389	9.653068	0.001094
0.83		-2.426750558	6.851321	0.000936
0.84		-1.931556711	3.5294	0.000664
0.85		-1.57404927	0.632982	0.000342

0.86		-1.458244543	-0.87103	6.14E-05
0.87		-1.622808442	-0.32721	-8.4E-05
0.88		-2.020398611	2.329116	-3.2E-05
0.89		-2.520379483	6.452515	0.000226
0.9		-2.936833571	10.7918	0.000626
0.91		-3.076335765	13.81241	0.001046
0.92		-2.793456502	14.15564	0.001339
0.93		-2.038466428	11.09822	0.001372
0.94		-0.882534659	4.861644	0.001076
0.95		0.489045124	-3.3449	0.000471
0.96		1.816602812	-11.5878	-0.00032
0.97		2.83037474	-17.7236	-0.00112
0.98		3.323151326	-20.0249	-0.00172
0.99		3.211470521	-17.7328	-0.00194
1		2.567307059	-11.3602	-0.00172
1.01		1.609244762	-2.6368	-0.0011
1.02		0.652746807	5.911665	-0.00026
1.03		0.03054973	11.64608	0.000573
1.04		0.003212116	12.57031	0.001129
1.05		0.683771423	7.943055	0.001219
1.06		1.997926753	-1.44052	0.00077
1.07		3.692550615	-13.3936	-0.00014
1.08		5.392745068	-24.8848	-0.0013
1.09		6.694411255	-32.8455	-0.00241
1.1		7.269036781	-35.0183	-0.00318
1.11		6.953081307	-30.6083	-0.0034
1.12		5.797382038	-20.5487	-0.00297
1.13		4.061846582	-7.29852	-0.00199
1.14		2.15489392	5.783131	-0.00071
1.15		0.531912643	15.32242	0.000561
1.16		-0.42158431	18.83737	0.001486
1.17		-0.491613167	15.41964	0.001826
1.18		0.305058377	6.003031	0.001495
1.19		1.720718656	-6.85837	0.000582
1.2		3.336832156	-19.648	-0.00066
1.21		4.669797639	-28.8079	-0.0019
1.22		5.295349675	-31.6786	-0.00279
1.23		4.959289922	-27.2084	-0.00307
1.24		3.645436539	-16.2418	-0.00264
1.25		1.582644272	-1.30911	-0.00157
1.26		-0.811381898	14.02633	-0.00013
1.27		-3.035177967	26.09403	0.00136
1.28		-4.63034206	32.0692	0.00253
1.29		-5.297181079	30.70276	0.003109
1.3		-4.969225437	22.63702	0.002977
1.31		-3.827489506	10.22558	0.002195
1.32		-2.25118247	-3.09253	0.000991
1.33		-0.718174279	-13.6975	-0.0003

1.34		0.31850826	-18.732	-0.00133
1.35		0.54594136	-16.836	-0.00182
1.36		-0.131305113	-8.48001	-0.00163
1.37		-1.570948002	4.183691	-0.00082
1.38		-3.434028173	17.90862	0.000406
1.39		-5.275284717	29.21805	0.001736
1.4		-6.658392706	35.31344	0.002833
1.41		-7.265734611	34.78669	0.003424
1.42		-6.974609703	27.9517	0.003373
1.43		-5.881320006	16.71563	0.00271
1.44		-4.268690921	4.034669	0.001621
1.45		-2.527426518	-6.89068	0.000391
1.46		-1.053318493	-13.4597	-0.00067
1.47		-0.147758322	-14.3289	-0.0013
1.48		0.052974938	-9.71368	-0.00139
1.49		-0.397236169	-1.26433	-0.00094
1.5		-1.279190754	8.433421	-0.00012
1.51		-2.274130213	16.58657	0.000818
1.52		-3.051220067	20.94559	0.001608
1.53		-3.352899471	20.37485	0.002031
1.54		-3.056123885	15.09634	0.001975
1.55		-2.195112562	6.556226	0.001464
1.56		-0.942180201	-3.03091	0.000636
1.57		0.445538514	-11.3195	-0.00029
1.58		1.697198057	-16.4676	-0.0011
1.59		2.597323279	-17.5964	-0.0016
1.6		3.034956657	-14.9561	-0.00171
1.61		3.021583175	-9.77372	-0.00145
1.62		2.675722443	-3.84174	-0.00095
1.63		2.181144792	1.018198	-0.00037
1.64		1.732157162	3.460195	9.87E-05
1.65		1.481725093	2.947282	0.000335
1.66		1.506024063	-0.16851	0.000286
1.67		1.793295749	-4.82329	-1.6E-05
1.68		2.257494557	-9.60584	-0.00047
1.69		2.770349279	-13.1907	-0.00093
1.7		3.201018316	-14.7093	-0.00128
1.71		3.451534328	-13.9568	-0.00143
1.72		3.478689493	-11.3868	-0.00135
1.73		3.297890316	-7.91277	-0.0011
1.74		2.970175898	-4.5919	-0.00077
1.75		2.5783174	-2.29405	-0.00045
1.76		2.200395899	-1.45852	-0.00022
1.77		1.888969069	-2.00459	-0.00014
1.78		1.661240579	-3.41136	-0.00019
1.79		1.501598929	-4.9283	-0.00033
1.8		1.373878058	-5.84036	-0.00048
1.81		1.237964821	-5.69937	-0.00057

1.82		1.064680528	-4.45016	-0.00055
1.83		0.844226748	-2.41794	-0.00043
1.84		0.586270208	-0.1703	-0.00023
1.85		0.312890023	1.692717	-1.7E-05
1.86		0.048019844	2.746316	0.000164
1.87		-0.192090378	2.876643	0.000266
1.88		-0.403702401	2.301672	0.000279
1.89		-0.598897922	1.479637	0.000223
1.9		-0.782485706	0.923821	0.000143
1.91		-0.948106463	0.996368	8.96E-05
1.92		-1.094359478	1.777487	9.66E-05
1.93		-1.220159814	3.050831	0.000172
1.94		-1.324743833	4.403615	0.000296
1.95		-1.407669849	5.396135	0.000427
1.96		-1.468814029	5.731585	0.000523
1.97		-1.508361701	5.361143	0.000556
1.98		-1.526794305	4.488034	0.00052
1.99		-1.52487229	3.475149	0.000435
2		-1.503614309	2.697434	0.000337
2.01		-1.464273119	2.398901	0.000262
2.02		-1.40830863	2.608661	0.000233
2.03		-1.33735859	3.144512	0.000253
2.04		-1.253207428	3.697335	0.000305
2.05		-1.157753762	3.959045	0.000358
2.06		-1.052977141	3.742428	0.000384
2.07		-0.94090454	3.047462	0.000363
2.08		-0.823577166	2.051964	0.000295
2.09		-0.703018071	1.034719	0.000199
2.1		-0.581201096	0.264596	0.0001
2.11		-0.460021586	-0.09987	2.57E-05
2.12		-0.341269328	-0.06263	-9.7E-06
2.13		-0.226604072	0.222909	-6.1E-06
2.14		-0.117533992	0.523271	2.16E-05
2.15		-0.015397344	0.620446	5.07E-05
2.16		0.078652437	0.395568	6.02E-05
2.17		0.163658065	-0.13068	3.84E-05
2.18		0.23886603	-0.81371	-1.3E-05
2.19		0.303730522	-1.44741	-7.9E-05
2.2		0.357913651	-1.84641	-0.00014
2.21		0.401282081	-1.91566	-0.00018
2.22		0.4339002	-1.68135	-0.00019
2.23		0.456020062	-1.27378	-0.00016
2.24		0.468068326	-0.87156	-0.00012
2.25		0.470630527	-0.63087	-8.5E-05
2.26		0.464432991	-0.62781	-6.1E-05
2.27		0.450322803	-0.83496	-6.1E-05
2.28		0.429246208	-1.13914	-8.1E-05
2.29		0.402225891	-1.39101	-0.00011

2.3		0.370337556	-1.46544	-0.00013
2.31		0.33468626	-1.30912	-0.00014
2.32		0.29638294	-0.95763	-0.00013
2.33		0.256521553	-0.51752	-9.3E-05
2.34		0.216157256	-0.1223	-5E-05
2.35		0.176285997	0.11937	-1.2E-05
2.36		0.137825887	0.162803	1.16E-05
2.37		0.101600659	0.039676	1.58E-05
2.38		0.068325501	-0.15946	3.85E-06
2.39		0.038595483	-0.32403	-1.5E-05
2.4		0.012876759	-0.36742	-3.1E-05
2.41		-0.008499323	-0.25904	-3.6E-05
2.42		-0.025339145	-0.03277	-2.5E-05
2.43		-0.037586753	0.229847	-3.2E-06
2.44		-0.045320851	0.43381	2.23E-05
2.45		-0.048748937	0.508051	4.21E-05
2.46		-0.048198748	0.431507	4.93E-05
2.47		-0.044107196	0.23857	4.18E-05
2.48		-0.037007051	0.003079	2.31E-05
2.49		-0.027511644	-0.19173	2.98E-07
2.5		-0.016297925	-0.28499	-1.9E-05
2.51		-0.004088221	-0.2594	-2.8E-05
2.52		0	-0.13608	-2.5E-05
2.53		0	0.031818	-1.3E-05
2.54		0	0.177306	3.08E-06
2.55		0	0.246066	1.72E-05
2.56		0	0.216453	2.39E-05
2.57		0	0.105794	2.1E-05
2.58		0	-0.03862	1.03E-05
2.59		0	-0.15945	-3.7E-06
2.6		0	-0.21189	-1.5E-05
2.61		0	-0.18003	-2.1E-05
2.62		0	-0.08121	-1.7E-05
2.63		0	0.04268	-7.9E-06
2.64		0	0.142686	4.14E-06
2.65		0	0.181985	1.38E-05
2.66		0	0.149233	1.76E-05
2.67		0	0.061357	1.45E-05
2.68		0	-0.04465	5.95E-06
2.69		0	-0.12711	-4.3E-06
2.7		0	-0.15589	-1.2E-05
2.71		0	-0.12325	-1.5E-05
2.72		0	-0.04543	-1.2E-05
2.73		0	0.045049	-4.4E-06
2.74		0	0.112769	4.37E-06
2.75		0	0.1332	1.09E-05
2.76		0	0.101403	1.29E-05
2.77		0	0.03273	9.83E-06

2.78		0	-0.04429	3.17E-06
2.79		0	-0.09966	-4.3E-06
2.8		0	-0.11352	-9.7E-06
2.81		0	-0.08308	-1.1E-05
2.82		0	-0.02269	-8.1E-06
2.83		0	0.042697	-2.2E-06
2.84		0	0.087762	4.14E-06
2.85		0	0.09649	8.51E-06
2.86		0	0.067754	9.36E-06
2.87		0	0.014835	6.57E-06
2.88		0	-0.04054	1.44E-06
2.89		0	-0.07702	-3.9E-06
2.9		0	-0.0818	-7.5E-06
2.91		0	-0.05498	-7.9E-06
2.92		0	-0.00875	-5.3E-06
2.93		0	0.038016	-8.5E-07
2.94		0	0.067381	3.69E-06
2.95		0	0.069166	6.53E-06
2.96		0	0.044369	6.71E-06
2.97		0	0.004099	4.3E-06
2.98		0	-0.03529	3.97E-07
2.99		0	-0.05877	-3.4E-06
3		0	-0.05832	-5.7E-06
3.01		0	-0.03558	-5.7E-06
3.02		0	-0.00061	-3.4E-06
3.03		0	0.032468	-5.9E-08
3.04		0	0.051102	3.15E-06
3.05		0	0.049041	4.95E-06
3.06		0	0.028335	4.75E-06
3.07		0	-0.00196	2.75E-06
3.08		0	-0.02965	-1.9E-07
3.09		0	-0.04431	-2.9E-06
3.1		0	-0.04112	-4.3E-06
3.11		0	-0.02238	-4E-06
3.12		0	0.003782	-2.2E-06
3.13		0	0.026903	3.67E-07
3.14		0	0.038318	2.61E-06
3.15		0	0.034371	3.72E-06
3.16		0	0.017509	3.33E-06
3.17		0	-0.00503	1.7E-06
3.18		0	-0.02427	-4.9E-07
3.19		0	-0.03305	-2.4E-06
3.2		0	-0.02864	-3.2E-06
3.21		0	-0.01354	-2.8E-06
3.22		0	0.005821	-1.3E-06
3.23		0	0.021776	5.64E-07
3.24		0	0.028424	2.11E-06
3.25		0	0.023788	2.76E-06

3.26		0	0.010329	2.31E-06
3.27		0	-0.00626	1E-06
3.28		0	-0.01945	-6.1E-07
3.29		0	-0.02439	-1.9E-06
3.3		0	-0.01969	-2.4E-06
3.31		0	-0.00774	-1.9E-06
3.32		0	0.006441	-7.5E-07
3.33		0	0.017294	6.24E-07
3.34		0	0.020866	1.68E-06
3.35		0	0.016234	2.02E-06
3.36		0	0.005671	1.57E-06
3.37		0	-0.00642	5.5E-07
3.38		0	-0.01532	-6.2E-07
3.39		0	-0.01781	-1.5E-06
3.4		0	-0.01333	-1.7E-06
3.41		0	-0.00403	-1.3E-06
3.42		0	0.006255	-3.9E-07
3.43		0	0.013515	6.06E-07
3.44		0	0.01516	1.31E-06
3.45		0	0.010902	1.47E-06
3.46		0	0.002731	1.06E-06
3.47		0	-0.00599	2.65E-07
3.48		0	-0.01188	-5.8E-07
3.49		0	-0.01287	-1.2E-06
3.5		0	-0.00887	-1.2E-06
3.51		0	-0.00172	-8.6E-07
3.52		0	0.005653	-1.7E-07
3.53		0	0.010415	5.48E-07
3.54		0	0.0109	1.01E-06
3.55		0	0.007183	1.06E-06
3.56		0	0.000944	6.96E-07
3.57		0	-0.00528	9.15E-08
3.58		0	-0.0091	-5.1E-07
3.59		0	-0.00921	-8.8E-07
3.6		0	-0.00578	-8.9E-07
3.61		0	-0.00035	-5.6E-07
3.62		0	0.004879	-3.4E-08
3.63		0	0.007926	4.73E-07
3.64		0	0.007753	7.68E-07
3.65		0	0.004623	7.52E-07
3.66		0	-8.5E-05	4.48E-07
3.67		0	-0.00447	-8.3E-09
3.68		0	-0.00688	-4.3E-07
3.69		0	-0.00651	-6.7E-07
3.7		0	-0.00367	-6.3E-07
3.71		0	0.000404	-3.6E-07
3.72		0	0.004074	3.92E-08
3.73		0	0.005962	3.95E-07

3.74		0	0.005452	5.78E-07
3.75		0	0.002887	5.29E-07
3.76		0	-0.00063	2.8E-07
3.77		0	-0.00369	-6.1E-08
3.78		0	-0.00515	-3.6E-07
3.79		0	-0.00455	-5E-07
3.8		0	-0.00225	-4.4E-07
3.81		0	0.000776	-2.2E-07
3.82		0	0.003318	7.52E-08
3.83		0	0.004436	3.22E-07
3.84		0	0.003788	4.3E-07
3.85		0	0.001729	3.67E-07
3.86		0	-0.00087	1.68E-07
3.87		0	-0.00297	-8.4E-08
3.88		0	-0.00381	-2.9E-07
3.89		0	-0.00314	-3.7E-07
3.9		0	-0.00131	-3E-07
3.91		0	0.000912	-1.3E-07
3.92		0	0.002649	8.84E-08
3.93		0	0.003266	2.57E-07
3.94		0	0.002596	3.17E-07
3.95		0	0.000973	2.52E-07
3.96		0	-0.00092	9.43E-08
3.97		0	-0.00235	-9E-08
3.98		0	-0.00279	-2.3E-07
3.99		0	-0.00214	-2.7E-07
4		0	-0.0007	-2.1E-07
4.01		0	0.000911	-6.8E-08
4.02		0	0.002079	8.83E-08
4.03		0	0.00238	2.02E-07
4.04		0	0.001752	2.31E-07
4.05		0	0.000491	1.7E-07
4.06		0	-0.00088	4.76E-08
4.07		0	-0.00183	-8.5E-08
4.08		0	-0.00202	-1.8E-07
4.09		0	-0.00143	-2E-07
4.1		0	-0.00032	-1.4E-07
4.11		0	0.000838	-3.1E-08
4.12		0	0.001608	8.12E-08
4.13		0	0.001716	1.56E-07
4.14		0	0.001161	1.66E-07
4.15		0	0.000195	1.13E-07
4.16		0	-0.00079	1.89E-08
4.17		0	-0.00141	-7.6E-08
4.18		0	-0.00145	-1.4E-07
4.19		0	-0.00094	-1.4E-07
4.2		0	-9.6E-05	-9.1E-08
4.21		0	0.000731	-9.3E-09

4.22		0	0.001228	7.09E-08
4.23		0	0.001225	1.19E-07
4.24		0	0.000753	1.19E-07
4.25		0	2.13E-05	7.3E-08
4.26		0	-0.00067	2.06E-09
4.27		0	-0.00107	-6.5E-08
4.28		0	-0.00103	-1E-07
4.29		0	-0.0006	-1E-07
4.3		0	3.37E-05	-5.8E-08
4.31		0	0.000616	3.27E-09
4.32		0	0.000927	5.97E-08
4.33		0	0.000864	8.99E-08
4.34		0	0.000474	8.38E-08
4.35		0	-7.3E-05	4.6E-08
4.36		0	-0.00056	-7.1E-09
4.37		0	-0.0008	-5.4E-08
4.38		0	-0.00072	-7.8E-08
4.39		0	-0.00037	-7E-08
4.4		0	0.0001	-3.6E-08
4.41		0	0.000505	9.7E-09
4.42		0	0.000692	4.89E-08
4.43		0	0.000602	6.71E-08
4.44		0	0.000288	5.84E-08
4.45		0	-0.00012	2.79E-08
4.46		0	-0.00045	-1.1E-08
4.47		0	-0.0006	-4.4E-08
4.48		0	-0.0005	-5.8E-08
4.49		0	-0.00022	-4.9E-08
4.5		0	0.000127	-2.1E-08
4.51		0	0.000405	1.24E-08
4.52		0	0.000511	3.93E-08
4.53		0	0.000414	4.95E-08
4.54		0	0.000165	4.02E-08
4.55		0	-0.00013	1.6E-08
4.56		0	-0.00036	-1.3E-08
4.57		0	-0.00044	-3.5E-08
4.58		0	-0.00034	-4.2E-08
4.59		0	-0.00012	-3.3E-08
4.6		0	0.000132	-1.2E-08
4.61		0	0.000319	1.28E-08
4.62		0	0.000373	3.1E-08
4.63		0	0.000281	3.62E-08
4.64		0	8.68E-05	2.72E-08
4.65		0	-0.00013	8.41E-09
4.66		0	-0.00028	-1.2E-08
4.67		0	-0.00032	-2.7E-08
4.68		0	-0.00023	-3.1E-08
4.69		0	-5.9E-05	-2.2E-08

4.7		0	0.000124	-5.8E-09
4.71		0	0.000248	1.2E-08
4.72		0	0.00027	2.41E-08
4.73		0	0.000187	2.62E-08
4.74		0	3.79E-05	1.82E-08
4.75		0	-0.00012	3.67E-09
4.76		0	-0.00022	-1.1E-08
4.77		0	-0.00023	-2.1E-08
4.78		0	-0.00015	-2.2E-08
4.79		0	-2.1E-05	-1.5E-08
4.8		0	0.000109	-2.1E-09
4.81		0	0.00019	1.06E-08
4.82		0	0.000193	1.84E-08
4.83		0	0.000122	1.87E-08
4.84		0	8.75E-06	1.19E-08
4.85		0	-0.0001	8.48E-10
4.86		0	-0.00017	-9.8E-09
4.87		0	-0.00016	-1.6E-08
4.88		0	-9.8E-05	-1.6E-08
4.89		0	6.46E-07	-9.5E-09
4.9		0	9.29E-05	6.26E-11
4.91		0	0.000144	9E-09
4.92		0	0.000137	1.4E-08
4.93		0	7.77E-05	1.33E-08
4.94		0	-7.5E-06	7.54E-09
4.95		0	-8.5E-05	-7.3E-10
4.96		0	-0.00012	-8.2E-09
4.97		0	-0.00011	-1.2E-08
4.98		0	-6.1E-05	-1.1E-08
4.99		0	1.23E-05	-5.9E-09
5		0	7.67E-05	1.19E-09

T (sec)	SD (m)	PSV (m/s)	PSA (m/s ²)
0.1	0.00342378	0.215122603	13.51655182

