

# ΤΕΥΧΟΣ ΕΠΙΛΥΣΕΩΝ ΣΤΑΣΕΩΝ

- ΛΥΣΗ ΤΩΝ ΚΑΝΟΝΚΩΝ ΕΞΙΣΩΣΕΩΝ
- ΣΥΝΟΡΘΩΜΕΝΕΣ ΠΑΡΑΤΗΡΗΣΕΙΣ
- ΑΠΟΛΥΤΕΣ ΕΛΛΕΙΨΕΙΣ ΣΦΑΛΜΑΤΟΣ
- ΣΧΕΤΙΚΕΣ ΕΛΛΕΙΨΕΙΣ ΣΦΑΛΜΑΤΟΣ



## ΤΙΤΛΟΣ ΜΕΛΕΤΗΣ :

Σ Π Υ Ρ Ι Δ Ο Π Ο Υ Λ Ο Σ Β. Γ Ρ Η Γ Ο Ρ Ι Ο Σ

Τ η λ. Γ ρ α φ ε ί ο υ : 2310725900

Κ ι ν. 6936865624

F a x : 2310 725900

Η μ ε ρ ο μ η ν ί α : 19/11/2014

« Υ Ψ Ο Μ Ε Τ Ρ Ι Κ Η Μ Ε Λ Ε Τ Η Ο Δ Ω Ν Τ Ω Ν Π.Ε 04  
( Δ Η Μ Α Ρ Χ Ε Ι Ο ) & Π.Ε. 05 ( Μ Ε Τ Α Γ Ω Γ Ω Ν ) Τ Η Σ  
Δ Η Μ Ο Τ Ι Κ Η Σ Κ Ο Ι Ν Ο Τ Η Τ Α Σ Α Μ Π Ε Λ Ο Κ Η Π Ι Ω Ν Τ Ο Υ  
Δ Η Μ Ο Υ Α Μ Π Ε Λ Ο Κ Η Π Ι Ω Ν Μ Ε Ν Ε Μ Ε Ν Η Σ »

## 1. ΛΥΣΗ ΤΩΝ ΚΑΝΟΝΙΚΩΝ ΕΙΣΩΣΕΩΝ

a-posteriori μεταβλητότητα = 0.3715

a-posteriori τυπική απόκλιση = 0.61

βαθμοί ελευθερίας = 267

κριτήριο βελτιστοποίησης = 99.1826

	Προσεγγιστικές Συντεταγμένες		Διορθώσεις		Συνορθωμένες Συντεταγμένες	
	x(m)	y(m)	dx(cm)	dy(cm)	x''(m)	y''(m)
S248	408794.749	4500453.324	0.00	0.00	408794.749	4500453.324
S341	408828.279	4500502.991	26.79	52.21	408828.547	4500503.513
S342	408849.101	4500542.871	25.94	38.53	408849.360	4500543.256
S134	408796.731	4500567.300	0.00	0.00	408796.731	4500567.300
S343	408877.751	4500595.319	23.96	19.57	408877.990	4500595.515
S345	408894.201	4500624.148	2.84	2.92	408894.229	4500624.178
S344	408893.796	4500531.067	9.68	35.27	408893.893	4500531.420
S346	408876.087	4500477.328	6.70	54.41	408876.154	4500477.872
S348	408922.633	4500564.114	6.70	21.39	408922.700	4500564.328
S288	408842.459	4500423.581	0.00	0.00	408842.459	4500423.581
S349	408941.853	4500601.000	-9.81	12.09	408941.755	4500601.121
S347	408916.521	4500502.086	3.57	43.86	408916.556	4500502.524
S350	408936.594	4500495.992	-3.50	46.37	408936.559	4500496.455
S351	408959.193	4500466.140	-9.30	55.37	408959.100	4500466.694
S350A	408948.306	4500510.900	-7.11	42.35	408948.235	4500511.324
S352	408990.590	4500502.637	-20.40	44.65	408990.386	4500503.084
S353	408944.560	4500433.394	-4.33	64.16	408944.517	4500434.035
S354	408998.841	4500448.216	-20.30	61.56	408998.638	4500448.831
S355	409001.732	4500537.087	-23.37	33.37	409001.498	4500537.421
S356	408920.776	4500400.429	3.41	72.95	408920.810	4500401.159
S294	408905.010	4500397.025	0.00	0.00	408905.010	4500397.025
S357	409020.198	4500434.659	-25.36	65.57	409019.944	4500435.315
S358	409094.468	4500376.466	-46.47	85.58	409094.003	4500377.322
S359	409053.529	4500482.453	-36.93	52.00	409053.160	4500482.973
S360	409006.874	4500401.442	-20.39	75.04	409006.671	4500402.192
S297	408977.402	4500367.320	0.00	0.00	408977.402	4500367.320
S299	409070.809	4500341.746	0.00	0.00	409070.809	4500341.746
S361	409130.576	4500368.197	-57.43	89.25	409130.002	4500369.090
S362	409172.782	4500357.502	-70.05	93.84	409172.082	4500358.440
S363	409134.570	4500425.223	-60.25	72.03	409133.967	4500425.943
S364	409224.830	4500403.433	-85.98	82.51	409223.970	4500404.258
S365	409204.043	4500327.723	-74.56	91.32	409203.297	4500328.636
S366	409169.519	4500328.449	-68.32	101.52	409168.835	4500329.464
S304	409135.120	4500301.024	0.00	0.00	409135.120	4500301.024
S367	409097.933	4500461.598	-49.85	59.74	409097.434	4500462.195
S368	409124.476	4500476.203	-59.61	56.65	409123.880	4500476.770
S369	409103.014	4500535.793	-54.83	39.13	409102.466	4500536.184
S370	409035.638	4500518.947	-33.10	40.60	409035.307	4500519.353
S371	409049.327	4500593.505	-41.54	20.49	409048.911	4500593.710
S372	408971.376	4500577.256	-16.74	20.24	408971.208	4500577.458
S373	408957.719	4500651.624	-16.23	1.70	408957.557	4500651.641
S101	408833.639	4500676.477	0.00	0.00	408833.639	4500676.477
S100	408854.404	4500724.802	0.00	0.00	408854.404	4500724.802
S374	408938.566	4500707.523	58.16	70.60	408939.148	4500708.229
S375	408981.000	4500678.774	47.47	81.08	408981.475	4500679.585
S376	408991.050	4500702.044	43.21	74.67	408991.482	4500702.791

<b>S377</b>	409008.994	4500675.636	-31.94	-6.38	<b>409008.675</b>	<b>4500675.572</b>
<b>S378</b>	409011.916	4500619.585	-31.32	12.10	<b>409011.602</b>	<b>4500619.706</b>
<b>S379</b>	409066.395	4500624.628	-47.64	11.56	<b>409065.918</b>	<b>4500624.744</b>
<b>S380</b>	409027.642	4500650.198	-36.95	2.54	<b>409027.272</b>	<b>4500650.224</b>
<b>S381</b>	409062.544	4500700.568	-49.09	-11.53	<b>409062.053</b>	<b>4500700.452</b>
<b>S382</b>	409096.969	4500598.080	-55.56	20.32	<b>409096.414</b>	<b>4500598.283</b>
<b>S383</b>	409096.370	4500668.027	-57.89	-1.24	<b>409095.792</b>	<b>4500668.014</b>
<b>S384</b>	409127.771	4500570.139	-63.50	29.50	<b>409127.136</b>	<b>4500570.434</b>
<b>S385</b>	409055.159	4500542.258	-41.19	35.42	<b>409054.747</b>	<b>4500542.612</b>
<b>S386</b>	409164.437	4500529.431	-72.84	42.85	<b>409163.709</b>	<b>4500529.859</b>
<b>S387</b>	409156.165	4500611.653	-73.71	17.51	<b>409155.428</b>	<b>4500611.828</b>
<b>S388</b>	409189.030	4500510.522	-79.13	49.14	<b>409188.239</b>	<b>4500511.013</b>
<b>S389</b>	409233.067	4500557.885	-94.82	35.28	<b>409232.119</b>	<b>4500558.238</b>
<b>S390</b>	409244.577	4500463.406	-94.06	65.24	<b>409243.636</b>	<b>4500464.059</b>
<b>S391</b>	409260.145	4500450.517	-97.97	69.27	<b>409259.165</b>	<b>4500451.210</b>
<b>S392</b>	409152.387	4500464.486	-67.15	61.93	<b>409151.715</b>	<b>4500465.105</b>
<b>S393</b>	409290.571	4500501.000	-109.79	53.53	<b>409289.473</b>	<b>4500501.535</b>
<b>S394</b>	409301.403	4500416.714	-108.82	74.15	<b>409300.314</b>	<b>4500417.455</b>
<b>S395</b>	409244.585	4500388.792	-90.22	77.39	<b>409243.683</b>	<b>4500389.565</b>
<b>S364A</b>	409181.818	4500440.351	-74.10	70.23	<b>409181.077</b>	<b>4500441.054</b>
<b>S397</b>	409229.592	4500369.241	-84.68	81.60	<b>409228.745</b>	<b>4500370.057</b>
<b>S396</b>	409261.592	4500374.172	-94.59	83.34	<b>409260.646</b>	<b>4500375.005</b>
<b>S398</b>	409286.986	4500365.241	-101.48	87.84	<b>409285.971</b>	<b>4500366.120</b>
<b>S399</b>	409284.553	4500399.117	-102.88	77.93	<b>409283.524</b>	<b>4500399.897</b>
<b>S400</b>	409324.208	4500425.279	-115.96	73.17	<b>409323.049</b>	<b>4500426.011</b>
<b>S401</b>	409363.339	4500470.087	-129.43	63.14	<b>409362.045</b>	<b>4500470.718</b>
<b>S402</b>	409400.191	4500514.023	-141.93	52.78	<b>409398.771</b>	<b>4500514.551</b>
<b>S403</b>	409437.884	4500546.914	-155.20	44.25	<b>409436.332</b>	<b>4500547.357</b>
<b>S404</b>	409359.104	4500558.045	-132.03	38.77	<b>409357.784</b>	<b>4500558.432</b>
<b>S405</b>	409392.813	4500619.875	-145.42	20.92	<b>409391.359</b>	<b>4500620.085</b>
<b>S406</b>	409328.588	4500543.865	-122.33	42.09	<b>409327.364</b>	<b>4500544.286</b>
<b>S407</b>	409295.350	4500569.522	-113.19	33.45	<b>409294.218</b>	<b>4500569.856</b>
<b>S408</b>	409264.530	4500606.066	-105.25	21.91	<b>409263.477</b>	<b>4500606.285</b>
<b>S409</b>	409158.291	4500632.384	-75.06	11.02	<b>409157.541</b>	<b>4500632.494</b>
<b>S410</b>	409182.774	4500665.548	-83.06	2.26	<b>409181.943</b>	<b>4500665.571</b>
<b>S411</b>	409119.860	4500717.005	-71.94	-13.81	<b>409119.141</b>	<b>4500716.867</b>
<b>S412</b>	409047.954	4500711.082	-50.45	-12.63	<b>409047.450</b>	<b>4500710.956</b>
<b>S413</b>	409006.495	4500730.670	37.23	67.44	<b>409006.868</b>	<b>4500731.345</b>
<b>S414</b>	409076.107	4500746.145	-59.25	-22.76	<b>409075.514</b>	<b>4500745.918</b>
<b>S415</b>	409022.368	4500781.926	29.66	53.19	<b>409022.665</b>	<b>4500782.458</b>
<b>S416</b>	409120.367	4500789.728	-72.64	-35.24	<b>409119.641</b>	<b>4500789.375</b>
<b>S414A</b>	409096.261	4500735.604	-65.22	-19.43	<b>409095.609</b>	<b>4500735.410</b>
<b>S424A</b>	409162.581	4500765.212	-85.12	-27.79	<b>409161.730</b>	<b>4500764.934</b>
<b>S418</b>	409153.442	4500699.945	-81.63	-8.75	<b>409152.626</b>	<b>4500699.857</b>
<b>S417</b>	409216.452	4500697.087	-97.47	-6.13	<b>409215.477</b>	<b>4500697.026</b>
<b>S419</b>	409254.059	4500749.519	-110.10	-21.44	<b>409252.958</b>	<b>4500749.305</b>
<b>S420</b>	409261.054	4500673.394	-110.52	1.62	<b>409259.949</b>	<b>4500673.411</b>
<b>S421</b>	409298.400	4500714.172	-121.73	-10.06	<b>409297.183</b>	<b>4500714.071</b>
<b>S422</b>	409185.183	4500756.376	-91.05	-25.73	<b>409184.272</b>	<b>4500756.119</b>
<b>S423</b>	409221.834	4500800.680	-101.69	-37.49	<b>409220.817</b>	<b>4500800.305</b>
<b>S424</b>	408951.671	4500763.465	51.10	54.46	<b>408952.182</b>	<b>4500764.009</b>
<b>S413A</b>	409008.827	4500755.655	35.15	60.31	<b>409009.178</b>	<b>4500756.258</b>
<b>S425</b>	409048.306	4500821.926	19.03	41.46	<b>409048.496</b>	<b>4500822.341</b>
<b>S426</b>	408983.777	4500809.682	38.41	45.20	<b>408984.161</b>	<b>4500810.134</b>
<b>S427</b>	408987.877	4500880.706	28.83	25.80	<b>408988.165</b>	<b>4500880.964</b>

<b>S428</b>	409076.341	4500842.838	9.70	36.58	<b>409076.438</b>	<b>4500843.203</b>
<b>S429</b>	409087.312	4500868.787	5.22	29.14	<b>409087.365</b>	<b>4500869.078</b>
<b>S430</b>	409093.558	4500822.897	-65.02	-45.34	<b>409092.908</b>	<b>4500822.443</b>
<b>S431</b>	409156.989	4500887.029	-84.74	-63.44	<b>409156.142</b>	<b>4500886.395</b>
<b>S432</b>	409172.669	4500864.292	-88.68	-56.87	<b>409171.782</b>	<b>4500863.723</b>
<b>S433</b>	409130.849	4500903.557	-8.41	21.18	<b>409130.765</b>	<b>4500903.769</b>
<b>S434</b>	408929.856	4500798.904	55.19	43.00	<b>408930.408</b>	<b>4500799.334</b>
<b>S73</b>	408890.013	4500840.264	0.00	0.00	<b>408890.013</b>	<b>4500840.264</b>
<b>S435</b>	408946.880	4500840.333	45.60	32.55	<b>408947.336</b>	<b>4500840.659</b>
<b>S436</b>	408967.219	4500887.471	34.52	21.33	<b>408967.564</b>	<b>4500887.685</b>
<b>S98</b>	408906.679	4500909.888	0.00	0.00	<b>408906.679</b>	<b>4500909.888</b>
<b>S437</b>	409006.096	4500914.086	22.27	17.58	<b>409006.319</b>	<b>4500914.262</b>
<b>S75</b>	408938.130	4500955.748	0.00	0.00	<b>408938.130</b>	<b>4500955.748</b>
<b>S438</b>	409032.493	4500963.559	12.44	4.52	<b>409032.617</b>	<b>4500963.604</b>
<b>S439</b>	409031.305	4500902.253	15.01	22.36	<b>409031.455</b>	<b>4500902.476</b>
<b>S440</b>	409054.491	4500929.651	7.11	15.33	<b>409054.562</b>	<b>4500929.804</b>
<b>S441</b>	409040.916	4500866.923	13.69	33.18	<b>409041.053</b>	<b>4500867.255</b>
<b>S442</b>	409097.167	4500968.418	0.87	0.94	<b>409097.176</b>	<b>4500968.428</b>
<b>S97</b>	408951.613	4500999.294	0.00	0.00	<b>408951.613</b>	<b>4500999.294</b>
<b>S443</b>	409049.709	4500991.325	6.17	-2.85	<b>409049.770</b>	<b>4500991.296</b>
<b>S444</b>	409008.682	4501008.208	17.14	-9.53	<b>409008.854</b>	<b>4501008.113</b>
<b>S107</b>	409053.680	4501026.266	0.00	0.00	<b>409053.680</b>	<b>4501026.266</b>
<b>S90</b>	408980.266	4501028.304	0.00	0.00	<b>408980.266</b>	<b>4501028.304</b>
<b>S445</b>	409114.821	4500943.634	-4.13	8.82	<b>409114.779</b>	<b>4500943.722</b>
<b>S446</b>	409192.758	4500820.701	-93.51	-44.08	<b>409191.823</b>	<b>4500820.260</b>
<b>S447</b>	409345.645	4500648.014	-133.06	10.88	<b>409344.314</b>	<b>4500648.123</b>
<b>S447A</b>	409323.036	4500624.761	-125.47	16.87	<b>409321.781</b>	<b>4500624.929</b>
<b>S448</b>	409359.115	4500613.817	-135.84	21.86	<b>409357.757</b>	<b>4500614.035</b>
<b>S449</b>	409466.147	4500466.602	-159.90	69.40	<b>409464.548</b>	<b>4500467.296</b>

## 2. ΣΥΝΟΡΘΩΜΕΝΕΣ ΠΑΡΑΤΗΡΗΣΕΙΣ

a-posteriori μεταβλητότητα = 0.3715

a-posteriori τυπική απόκλιση = 0.61

βαθμοί ελευθερίας = 267

κριτήριο βελτιστοποίησης = 99.1826

από i	προς j	παρατήρηση (m)	T.A (cm)	σφάλμα (cm)	συνορθωμένη παρατήρηση(m)	παρατήρηση (grad)	T.A (cc)	σφάλμα(cc)	συνορθωμένη παρατήρηση (grad)
S248	S341	60.5003	1.5	-0.74	60.5077	37.6509	30	0	37.6509
S341	S248	60.4961	1.5	-1.151	60.5077	237.6509	30	3.272	237.6506
S341	S342	44.8525	1.5	-1.146	44.8639	30.6333	30	-3.272	30.6336
S342	S341	44.8556	1.5	-0.831	44.8639	230.6333	30	5.111	230.6328
S342	S134	57.8644	1.5	0.464	57.8597	327.1999	30	-14.551	327.2013
S342	S343	59.5852	1.5	-0.149	59.5867	31.8283	30	9.44	31.8273
S343	S342	59.5847	1.5	-0.197	59.5867	231.8283	30	-8.35	231.8291
S343	S345	32.9366	1.5	-0.689	32.9435	32.7401	30	8.35	32.7392
S344	S342	46.0905	1.5	1.165	46.0788	316.4379	30	-6.375	316.4385
S344	S346	56.4141	1.5	0.445	56.4097	220.2656	30	6.214	220.265
S344	S348	43.7298	1.5	-0.596	43.7358	45.6757	30	0.16	45.6756
S346	S344	56.4131	1.5	0.345	56.4097	20.2656	30	-2.879	20.2659
S346	S288	63.9066	1.5	0.99	63.8967	235.2612	30	2.879	235.2609
S348	S344	43.7312	1.5	-0.458	43.7358	245.6757	30	0.26	245.6756
S348	S349	41.4235	1.5	-1.06	41.4341	30.321	30	-0.26	30.3211
S347	S344	36.719	1.5	-0.399	36.723	357.6664	30	-10.73	357.6675
S347	S350	20.9138	1.5	1.074	20.903	118.764	30	10.73	118.763
S350	S347	20.9156	1.5	1.26	20.903	318.764	30	-16.037	318.7656
S350	S351	37.3333	1.5	-0.052	37.3339	158.7468	30	16.037	158.7452
S350	S350A	18.9025	1.5	-0.238	18.9048	42.3914	30	0	42.3914
S350A	S350	18.9072	1.5	0.238	18.9048	242.3914	30	0	242.3914
S351	S352	48.0005	1.5	1.075	47.9898	45.2267	30	23.541	45.2243
S351	S350	37.3296	1.5	-0.425	37.3339	358.7469	30	-26.928	358.7495

S351	S353	35.761	1.5	-0.589	35.7669	226.7533	30	5.771	226.7527
S351	S354	43.3689	1.5	-1.701	43.3859	127.0305	30	-2.384	127.0307
S352	S351	48.0029	1.5	1.316	47.9898	245.2267	30	-10.883	245.2277
S352	S355	36.096	1.5	0.584	36.0901	19.9461	30	10.883	19.945
S353	S351	35.7632	1.5	-0.369	35.7669	26.7532	30	-3.881	26.7536
S353	S356	40.5287	1.5	-0.407	40.5327	239.7898	30	3.881	239.7894
S356	S353	40.5291	1.5	-0.361	40.5327	39.7898	30	-1.286	39.7899
S356	S294	16.3177	1.5	0.11	16.3166	283.6944	30	1.286	283.6943
S354	S351	43.3824	1.5	-0.352	43.3859	327.0305	30	-3.703	327.0308
S354	S357	25.2195	1.5	-1.262	25.2321	136.0074	30	3.703	136.0071
S357	S354	25.2213	1.5	-1.083	25.2321	336.0074	30	-6.748	336.0081
S357	S358	94.0706	1.5	0.757	94.0631	142.311	30	8.137	142.3102
S357	S359	58.1039	1.5	1.236	58.0916	38.7653	30	-18.47	38.7671
S357	S360	35.6834	1.5	0.025	35.6832	224.2842	30	17.081	224.2825
S360	S357	35.6712	1.5	-1.198	35.6832	24.2842	30	-9.78	24.2852
S360	S297	45.5221	1.5	-0.055	45.5227	244.4646	30	9.78	244.4636
S358	S357	94.0726	1.5	0.957	94.0631	342.311	30	-5.871	342.3116
S358	S299	42.4466	1.5	-1.377	42.4604	236.7856	30	-0.079	236.7856
S358	S361	36.9316	1.5	0.356	36.928	114.3312	30	5.95	114.3306
S361	S358	36.933	1.5	0.502	36.928	314.3312	30	-0.489	314.3312
S361	S362	43.4113	1.5	0.47	43.4066	115.8002	30	0.489	115.8001
S362	S361	43.411	1.5	0.442	43.4066	315.8002	30	5.873	315.7996
S362	S363	77.5186	1.5	-0.168	77.5203	367.2952	30	-12.342	367.2964
S362	S364	69.2106	1.5	-1.165	69.2223	53.9692	30	-4.146	53.9696
S362	S365	43.167	1.5	0.789	43.1591	148.5482	30	13.681	148.5468
S362	S366	29.1491	1.5	-0.851	29.1576	207.1212	30	-3.066	207.1215
S366	S362	29.1483	1.5	-0.932	29.1576	7.1212	30	-0.109	7.1212
S366	S304	44.0663	1.5	-2.483	44.0911	255.4052	30	0.109	255.4052
S363	S362	77.5276	1.5	0.73	77.5203	167.2952	30	3.378	167.2948
S363	S367	51.4702	1.5	0.324	51.467	349.7712	30	-3.378	349.7715
S367	S363	51.4741	1.5	0.716	51.467	149.7712	30	-1.854	149.7713
S367	S368	30.2043	1.5	0.851	30.1957	67.9492	30	-20.903	67.9512
S367	S359	48.9164	1.5	0.894	48.9074	327.9542	30	22.757	327.9519

S359	S367	48.9117	1.5	0.427	48.9074	127.9541	30	-33.96	127.9575
S359	S369	72.5443	1.5	0.14	72.5429	47.5991	30	0.124	47.5991
S359	S370	40.5219	1.5	-0.203	40.5239	370.9811	30	17.883	370.9794
S359	S357	58.098	1.5	0.642	58.0916	238.7741	30	15.952	238.7725
S370	S359	40.5225	1.5	-0.141	40.5239	170.9811	30	-23.602	170.9835
S370	S355	38.3385	1.5	0.447	38.3341	331.2751	30	23.602	331.2728
S355	S370	38.3399	1.5	0.582	38.3341	131.2751	30	-28.479	131.278
S355	S371	73.5859	1.5	-1.087	73.5967	44.5992	30	20.141	44.5971
S355	S372	50.1944	1.5	-0.959	50.204	358.8011	30	8.338	358.8003
S372	S355	50.1993	1.5	-0.471	50.204	158.8011	30	-2.378	158.8014
S372	S349	37.7708	1.5	-1.115	37.782	343.1212	30	2.378	343.1209
S349	S372	37.7746	1.5	-0.732	37.782	143.1212	30	1.141	143.121
S349	S373	52.9362	1.5	0.316	52.9331	19.3342	30	7.487	19.3334
S349	S345	52.8192	1.5	-0.349	52.8227	328.7882	30	-8.628	328.789
S345	S349	52.8193	1.5	-0.342	52.8227	128.7882	30	5.901	128.7876
S345	S101	80.0301	1.5	-0.996	80.0401	345.3652	30	1.83	345.365
S345	S343	32.947	1.5	0.349	32.9435	232.8482	30	-7.731	232.8489
S101	S345	80.0377	1.5	-0.239	80.0401	145.3652	30	-6.306	145.3658
S101	S100	52.6014	1.5	0.395	52.5974	25.8702	30	6.306	25.8695
S100	S101	52.601	1.5	0.357	52.5974	225.8702	30	1.584	225.87
S100	S374	86.3422	1.5	-0.31	86.3453	112.3252	30	-1.584	112.3254
S374	S100	86.3332	1.5	-1.211	86.3453	312.3252	30	-0.17	312.3252
S374	S375	51.0982	1.5	-1.039	51.1086	137.9082	30	0.17	137.9082
S375	S374	51.1037	1.5	-0.49	51.1086	337.9082	30	0.739	337.9082
S375	S373	36.7704	1.5	-1.223	36.7826	245.0992	30	0.143	245.0992
S375	S376	25.2752	1.5	0.368	25.2715	25.9522	30	13.328	25.9509
S375	S377	27.4715	1.5	-0.584	27.4774	109.3022	30	-14.21	109.3037
S373	S375	36.7797	1.5	-0.297	36.7826	45.0797	30	5.754	45.0791
S373	S378	62.7682	1.5	-0.68	62.775	133.9887	30	-2.976	133.989
S373	S349	52.9358	1.5	0.273	52.9331	219.3127	30	-2.778	219.313
S378	S373	62.7711	1.5	-0.399	62.775	333.9887	30	-8.294	333.9895
S378	S371	45.4634	1.5	-0.928	45.4727	138.7567	30	8.294	138.7559
S371	S378	45.4691	1.5	-0.36	45.4727	338.7567	30	-16.203	338.7583

S371	S379	35.3979	1.5	0.966	35.3882	31.9337	30	27.954	31.9309
S371	S355	73.594	1.5	-0.273	73.5967	244.5797	30	-11.751	244.5809
S377	S375	27.4754	1.5	-0.199	27.4774	309.2991	30	18.674	309.2973
S377	S380	31.4445	1.5	0.529	31.4392	159.7289	30	-18.674	159.7308
S380	S377	31.4471	1.5	0.796	31.4392	359.7289	30	23.203	359.7266
S380	S381	61.0978	1.5	0.29	61.0949	38.5767	30	-21.918	38.5789
S380	S379	46.2922	1.5	0.242	46.2898	137.1315	30	-1.285	137.1317
S379	S380	46.2909	1.5	0.11	46.2898	337.1315	30	9.183	337.1306
S379	S371	35.3905	1.5	0.226	35.3882	231.9337	30	-26.798	231.9364
S379	S382	40.3702	1.5	-0.452	40.3747	145.5195	30	7.525	145.5188
S379	S383	52.5846	1.5	0.339	52.5812	38.4897	30	10.09	38.4887
S382	S379	40.3718	1.5	-0.294	40.3747	345.5195	30	-0.196	345.5195
S382	S384	41.4626	1.5	-0.391	41.4665	146.9027	30	0.196	146.9027
S382	S385	69.537	1.5	0.003	69.537	240.9257	30	0	240.9257
S385	S382	69.537	1.5	-0.003	69.537	40.9257	30	0	40.9257
S384	S382	41.4636	1.5	-0.292	41.4665	346.9027	30	7.371	346.902
S384	S369	42.2126	1.5	0.316	42.2094	239.7613	30	-4.5	239.7617
S384	S386	54.6225	1.5	-0.206	54.6246	153.3225	30	14.618	153.321
S384	S387	50.1439	1.5	0.475	50.1392	38.1877	30	-17.49	38.1894
S369	S384	42.2082	1.5	-0.127	42.2094	39.7613	30	2.922	39.761
S369	S359	72.5427	1.5	-0.025	72.5429	247.5967	30	-2.922	247.597
S386	S384	54.6236	1.5	-0.093	54.6246	353.3225	30	-3.059	353.3228
S386	S388	30.9286	1.5	-0.512	30.9338	141.7283	30	3.059	141.728
S388	S386	30.9299	1.5	-0.39	30.9338	341.7283	30	3.272	341.728
S388	S389	64.4605	1.5	-0.355	64.464	47.6875	30	2.072	47.6873
S388	S390	72.6189	1.5	-0.074	72.6196	144.7833	30	-5.345	144.7839
S390	S388	72.6214	1.5	0.179	72.6196	344.7833	30	19.061	344.7814
S390	S391	20.1537	1.5	-0.15	20.1552	144.0251	30	-16.151	144.0268
S390	S392	91.9229	1.5	-0.418	91.9271	300.7455	30	-2.91	300.7458
S391	S390	20.151	1.5	-0.422	20.1552	344.0251	30	19.796	344.0232
S391	S393	58.7382	1.5	-0.875	58.7469	34.5236	30	-25.84	34.5261
S391	S394	53.2322	1.5	0.949	53.2227	143.7532	30	1.393	143.753
S391	S364	58.6808	1.5	0.254	58.6783	240.9678	30	4.652	240.9673



S364	S391	58.6815	1.5	0.315	58.6783	40.9678	30	0.737	40.9677
S364	S362	69.2219	1.5	-0.038	69.2223	253.9692	30	9.148	253.9683
S364	S395	24.5823	1.5	-0.299	24.5853	140.7938	30	-9.885	140.7948
S364	S364A	56.5149	1.5	0.177	56.5132	345.156	30	0	345.156
S364A	S364	56.5114	1.5	-0.177	56.5132	145.156	30	0	145.156
S392	S364	94.4608	1.5	-0.188	94.4626	144.5953	30	-13.137	144.5967
S392	S368	30.1808	1.5	0.009	30.1807	325.3027	30	13.137	325.3014
S368	S392	30.1796	1.5	-0.107	30.1807	125.3027	30	-17.836	125.3045
S368	S367	30.206	1.5	1.024	30.1957	267.9783	30	17.836	267.9765
S365	S397	48.6083	1.5	-0.592	48.6142	35.1186	30	10.547	35.1176
S365	S362	43.1679	1.5	0.882	43.1591	348.5716	30	-10.547	348.5727
S397	S365	48.6053	1.5	-0.886	48.6142	235.1186	30	-6.277	235.1192
S397	S395	24.5627	1.5	-0.727	24.57	41.6486	30	6.277	41.648
S395	S397	24.564	1.5	-0.6	24.57	241.6486	30	-3.896	241.649
S395	S364	24.5819	1.5	-0.34	24.5853	340.8256	30	9.518	340.8247
S395	S396	22.3598	1.5	0.418	22.3556	145.2036	30	-5.622	145.2042
S396	S395	22.361	1.5	0.537	22.3556	345.2036	30	7.098	345.2029
S396	S398	26.8383	1.5	0	26.8383	121.5287	30	0	121.5287
S396	S399	33.8029	1.5	-0.542	33.8083	47.3636	30	-7.098	47.3644
S399	S396	33.8036	1.5	-0.473	33.8083	247.3637	30	9.208	247.3627
S399	S394	24.2881	1.5	-0.604	24.2941	48.6207	30	-9.208	48.6216
S394	S399	24.2902	1.5	-0.391	24.2941	248.6207	30	10.754	248.6196
S394	S391	53.2296	1.5	0.698	53.2227	343.7787	30	2.086	343.7785
S394	S400	24.2875	1.5	-0.329	24.2908	77.1277	30	-12.84	77.129
S400	S394	24.2888	1.5	-0.203	24.2908	277.1277	30	17.872	277.1259
S400	S401	59.3176	1.5	-0.776	59.3254	45.7007	30	-17.872	45.7025
S401	S400	59.3129	1.5	-1.25	59.3254	245.7007	30	27.749	245.6979
S401	S402	57.1746	1.5	-1.034	57.1849	44.4317	30	-27.749	44.4345
S402	S401	57.1745	1.5	-1.045	57.1849	244.4317	30	37.123	244.428
S402	S403	49.8779	1.5	0.744	49.8704	54.3247	30	5.172	54.3242
S402	S404	60.0426	1.5	-0.375	60.0463	352.1947	30	-42.295	352.1989
S404	S402	60.0375	1.5	-0.879	60.0463	152.1947	30	31.85	152.1915
S404	S405	70.192	1.5	-0.967	70.2017	31.7657	30	-21.772	31.7679

<b>S404</b>	S406	33.5445	1.5	-0.373	33.5483	272.3087	30	-10.078	272.3097
<b>S406</b>	S404	33.5503	1.5	0.207	33.5483	72.3087	30	5.313	72.3082
<b>S406</b>	S393	57.1246	1.5	-0.128	57.1259	246.1887	30	1.783	246.1885
<b>S406</b>	S407	41.8584	1.5	-0.47	41.8631	341.8507	30	-7.096	341.8514
<b>S393</b>	S406	57.126	1.5	0.012	57.1259	46.1887	30	-7.753	46.1895
<b>S393</b>	S391	58.7449	1.5	-0.196	58.7469	234.5317	30	22.262	234.5295
<b>S393</b>	S389	80.646	1.5	-0.538	80.6514	349.6557	30	-14.508	349.6572
<b>S389</b>	S393	80.6472	1.5	-0.424	80.6514	149.6558	30	9.113	149.6549
<b>S389</b>	S388	64.4643	1.5	0.026	64.464	247.6818	30	-5.47	247.6823
<b>S389</b>	S408	57.3723	1.5	-0.24	57.3747	36.8307	30	3.004	36.8304
<b>S389</b>	S387	93.563	1.5	0.295	93.56	338.8458	30	-6.647	338.8464
<b>S387</b>	S384	50.1407	1.5	0.146	50.1392	238.1918	30	15.663	238.1902
<b>S387</b>	S409	20.7691	1.5	-0.433	20.7735	6.5078	30	-15.663	6.5093
<b>S409</b>	S387	20.7776	1.5	0.413	20.7735	206.5077	30	14.331	206.5063
<b>S409</b>	S383	71.2409	1.5	0.422	71.2367	333.2507	30	-9.954	333.2517
<b>S409</b>	S410	41.1001	1.5	-0.437	41.1045	40.4837	30	-4.377	40.4842
<b>S383</b>	S409	71.2346	1.5	-0.207	71.2367	133.2507	30	13.834	133.2493
<b>S383</b>	S379	52.591	1.5	0.981	52.5812	238.4837	30	-3.924	238.4841
<b>S383</b>	S381	46.8024	1.5	-0.04	46.8028	348.7667	30	7.494	348.766
<b>S383</b>	S411	54.153	1.5	0.757	54.1455	28.3997	30	-17.404	28.4015
<b>S381</b>	S383	46.7982	1.5	-0.457	46.8028	148.7667	30	-5.036	148.7672
<b>S381</b>	S380	61.093	1.5	-0.184	61.0949	238.5767	30	22.279	238.5745
<b>S381</b>	S412	17.9894	1.5	0.141	17.988	339.7117	30	-17.243	339.7135
<b>S412</b>	S381	17.9796	1.5	-0.841	17.988	139.7066	30	18.219	139.7048
<b>S412</b>	S413	45.3971	1.5	-0.572	45.4028	329.6346	30	3.508	329.6343
<b>S412</b>	S414	44.8277	1.5	-0.48	44.8325	43.0676	30	-21.727	43.0698
<b>S414</b>	S412	44.8331	1.5	0.061	44.8325	243.0676	30	22.806	243.0653
<b>S414</b>	S415	64.2387	1.5	-0.29	64.2416	338.5086	30	-20.925	338.5107
<b>S414</b>	S416	61.9297	1.5	-0.358	61.9333	50.4916	30	-0.194	50.4917
<b>S414</b>	S411	52.4133	1.5	-0.087	52.4142	137.4047	30	-1.686	137.4048
<b>S414</b>	S414A	22.6768	1.5	0.088	22.676	130.6776	30	0	130.6776
<b>S414A</b>	S414	22.6751	1.5	-0.088	22.676	330.6776	30	0	330.6776
<b>S411</b>	S414	52.4097	1.5	-0.449	52.4142	337.4047	30	-0.772	337.4047

S411	S383	54.1504	1.5	0.497	54.1455	228.3917	30	21.374	228.3895
S411	S424A	64.2215	1.5	0.089	64.2206	46.1637	30	8.787	46.1628
S411	S418	37.5553	1.5	-0.246	37.5578	129.9237	30	-29.389	129.9266
S407	S406	41.8637	1.5	0.055	41.8631	141.8507	30	4.74	141.8502
S407	S408	47.6625	1.5	-0.343	47.666	355.3957	30	-4.74	355.3962
S408	S407	47.6634	1.5	-0.251	47.666	155.3957	30	2.381	155.3955
S408	S389	57.3741	1.5	-0.058	57.3747	236.8297	30	-2.349	236.8299
S408	S410	100.8089	1.5	-0.079	100.8097	340.0427	30	-0.031	340.0427
S410	S408	100.8046	1.5	-0.507	100.8097	140.0427	30	-7.545	140.0435
S410	S418	45.1075	1.5	-0.394	45.1115	354.9827	30	8.008	354.9819
S410	S409	41.0952	1.5	-0.932	41.1045	240.4837	30	2.94	240.4834
S410	S417	45.9778	1.5	0.04	45.9774	52.0547	30	-3.402	52.0551
S417	S410	45.9735	1.5	-0.389	45.9774	252.0477	30	1.035	252.0476
S417	S419	64.3263	1.5	0.003	64.3263	39.6107	30	19.848	39.6087
S417	S420	50.3544	1.5	0.165	50.3527	131.0857	30	-20.882	131.0878
S420	S417	50.3518	1.5	-0.093	50.3527	331.0857	30	23.575	331.0833
S420	S421	55.1307	1.5	-0.236	55.1331	47.2057	30	-23.575	47.208
S418	S410	45.1012	1.5	-1.023	45.1115	154.9617	30	-13.961	154.9631
S418	S411	37.5608	1.5	0.302	37.5578	329.9237	30	22.941	329.9214
S418	S422	64.5535	1.5	0.202	64.5515	32.6177	30	-8.98	32.6186
S422	S418	64.5521	1.5	0.066	64.5515	232.6177	30	11.209	232.6166
S422	S423	57.3426	1.5	0.235	57.3402	43.9887	30	-11.209	43.9898
S376	S375	25.2721	1.5	0.052	25.2715	225.9522	30	-12.51	225.9535
S376	S413	32.4346	1.5	-0.066	32.4353	31.5002	30	-1.3	31.5004
S376	S424	72.7436	1.5	-0.378	72.7473	363.7053	30	13.81	363.7039
S413	S376	32.4308	1.5	-0.45	32.4353	231.5002	30	-0.506	231.5003
S413	S415	53.5072	1.5	0.863	53.4985	19.1183	30	0.506	19.1182
S413	S413A	25.0191	1.5	-0.156	25.0206	5.9233	30	0	5.9233
S413A	S413	25.0222	1.5	0.156	25.0206	205.9233	30	0	205.9233
S415	S413	53.4978	1.5	-0.073	53.4985	219.1183	30	-1.279	219.1184
S415	S414	64.2363	1.5	-0.53	64.2416	138.5433	30	18.185	138.5415
S415	S425	47.5229	1.5	0.544	47.5174	36.6233	30	-20.489	36.6254
S415	S426	47.4096	1.5	-0.87	47.4183	339.7123	30	3.583	339.712

S425	S415	47.5322	1.5	1.477	47.5174	236.6233	30	17.711	236.6216
S425	S427	84.1178	1.5	-0.421	84.122	349.1183	30	-0.375	349.1184
S425	S428	34.8705	1.5	-0.046	34.8709	59.2003	30	-17.336	59.2021
S428	S425	34.871	1.5	0.011	34.8709	259.2003	30	12.758	259.199
S428	S429	28.0884	1.5	0.094	28.0875	25.4663	30	-12.758	25.4676
S430	S428	26.4806	1.5	0.324	26.4774	357.3246	30	-1.536	357.3248
S430	S431	89.9413	1.5	0.664	89.9347	49.6497	30	14.725	49.6482
S430	S416	42.5221	1.5	-0.014	42.5222	156.7256	30	-13.189	156.727
S416	S430	42.5179	1.5	-0.437	42.5222	356.7256	30	12.597	356.7244
S416	S432	90.8048	1.5	-0.462	90.8094	38.9396	30	-13.433	38.941
S416	S414	61.9319	1.5	-0.139	61.9333	250.4916	30	0.837	250.4916
S429	S428	28.0899	1.5	0.24	28.0875	225.4663	30	8.303	225.4655
S429	S433	55.5518	1.5	-0.906	55.5609	57.0973	30	-8.303	57.0981
S424	S376	72.744	1.5	-0.336	72.7473	163.7053	30	-6.866	163.7059
S424	S434	41.4916	1.5	-0.446	41.4961	364.8723	30	6.866	364.8716
S434	S424	41.4937	1.5	-0.24	41.4961	164.8723	30	-2.872	164.8725
S434	S73	57.4929	1.5	-0.95	57.5024	350.4573	30	2.872	350.457
S435	S434	44.6627	1.5	0.485	44.6579	224.8203	30	0.743	224.8202
S435	S426	47.8257	1.5	-0.619	47.8319	144.1302	30	-14.941	144.1317
S435	S436	51.1863	1.5	-0.541	51.1918	25.9323	30	14.198	25.9308
S426	S435	47.8228	1.5	-0.912	47.8319	344.1302	30	9.389	344.1293
S426	S415	47.413	1.5	-0.53	47.4183	139.7422	30	-9.389	139.7432
S436	S435	51.1801	1.5	-1.168	51.1918	225.9323	30	-10.309	225.9333
S436	S427	21.6735	1.5	0.354	21.6699	120.1483	30	4.423	120.1478
S436	S98	64.7998	1.5	-0.637	64.8062	322.3333	30	5.887	322.3327
S427	S425	84.1186	1.5	-0.338	84.122	149.1183	30	8.363	149.1174
S427	S437	37.9159	1.5	-0.934	37.9252	31.8073	30	-8.363	31.8081
S437	S75	79.8112	1.5	-0.599	79.8172	334.8243	30	-2.559	334.8245
S437	S438	55.908	1.5	-0.495	55.913	31.2023	30	-3.063	31.2026
S437	S439	27.7649	1.5	0.343	27.7614	127.9403	30	-7.696	127.9411
S437	S427	37.9158	1.5	-0.937	37.9252	231.8073	30	13.319	231.8059
S439	S437	27.7651	1.5	0.363	27.7614	327.9403	30	9.326	327.9394
S439	S440	35.7854	1.5	-0.192	35.7874	44.7113	30	-9.326	44.7122

S439	S441	36.5052	1.5	-0.073	36.5059	183.0903	30	0	183.0903
S441	S439	36.5066	1.5	0.073	36.5059	383.0903	30	0	383.0903
S440	S439	35.7821	1.5	-0.523	35.7874	244.7113	30	11.41	244.7102
S440	S442	57.5088	1.5	-0.401	57.5128	53.1483	30	-11.41	53.1495
S438	S437	55.9134	1.5	0.044	55.913	231.2023	30	5.654	231.2017
S438	S97	88.515	1.5	-0.282	88.5178	326.4473	30	-6.018	326.4479
S438	S443	32.5731	1.5	-0.127	32.5744	35.3343	30	0.364	35.3343
S443	S438	32.5819	1.5	0.759	32.5744	235.3343	30	0.32	235.3343
S443	S444	44.2328	1.5	-0.479	44.2376	324.8533	30	6.369	324.8526
S443	S107	35.1841	1.5	-0.324	35.1873	7.1153	30	-6.689	7.116
S444	S443	44.24	1.5	0.244	44.2376	124.8533	30	-2.825	124.8536
S444	S90	34.9998	1.5	0.055	34.9992	339.1773	30	2.825	339.177
S107	S442	72.3704	1.5	0.229	72.3681	158.9623	30	-6.684	158.9629
S107	S443	35.1833	1.5	-0.406	35.1873	207.1003	30	6.684	207.0996
S442	S107	72.3614	1.5	-0.671	72.3681	358.9623	30	-4.167	358.9627
S442	S445	30.3389	1.5	0.285	30.336	160.5983	30	-10.902	160.5994
S442	S440	57.5109	1.5	-0.188	57.5128	253.1373	30	15.069	253.1358
S445	S442	30.3389	1.5	0.285	30.336	360.5983	30	7.251	360.5975
S445	S433	43.0348	1.5	0.258	43.0322	175.7793	30	-7.251	175.78
S433	S445	43.0307	1.5	-0.156	43.0322	375.7793	30	1.854	375.7791
S433	S431	30.7273	1.5	-0.668	30.7339	138.2143	30	-1.854	138.2145
S431	S433	30.7277	1.5	-0.619	30.7339	338.2157	30	-1.004	338.2158
S431	S430	89.9343	1.5	-0.034	89.9347	249.6497	30	-10.077	249.6507
S431	S432	27.5377	1.5	-0.525	27.543	161.5657	30	11.082	161.5646
S432	S431	27.5375	1.5	-0.548	27.543	361.5657	30	-13.892	361.5671
S432	S416	90.8122	1.5	0.281	90.8094	238.9497	30	11.713	238.9485
S432	S446	47.8527	1.5	-0.893	47.8616	172.5077	30	2.179	172.5075
S446	S432	47.8555	1.5	-0.61	47.8616	372.5077	30	-5.508	372.5082
S446	S424A	62.9781	1.5	-0.272	62.9808	231.7277	30	-3.072	231.728
S446	S423	35.1966	1.5	-0.011	35.1967	138.3897	30	8.58	138.3889
S424A	S446	62.9773	1.5	-0.352	62.9808	31.7217	30	5.653	31.7211
S424A	S411	64.2151	1.5	-0.551	64.2206	246.1637	30	-5.653	246.1642
S423	S446	35.1967	1.5	-0.006	35.1967	338.3897	30	-11.161	338.3908

<b>S423</b>	S422	57.3415	1.5	0.127	57.3402	244.0087	30	12.984	244.0074
<b>S423</b>	S419	60.2809	1.5	-0.235	60.2833	164.2157	30	-1.823	164.2159
<b>S419</b>	S423	60.2844	1.5	0.115	60.2833	364.2157	30	-4.103	364.2161
<b>S419</b>	S417	64.3327	1.5	0.645	64.3263	239.6107	30	-24.118	239.6131
<b>S419</b>	S421	56.5441	1.5	-0.039	56.5445	142.8447	30	28.221	142.8419
<b>S421</b>	S419	56.538	1.5	-0.645	56.5445	342.8448	30	-35.725	342.8483
<b>S421</b>	S447	81.0562	1.5	-0.285	81.0591	160.5208	30	11.17	160.5196
<b>S421</b>	S420	55.1274	1.5	-0.568	55.1331	247.2258	30	24.555	247.2233
<b>S447</b>	S421	81.054	1.5	-0.508	81.0591	360.5208	30	-16.842	360.5224
<b>S447</b>	S447A	32.3363	1.5	-0.05	32.3368	249.1057	30	0	249.1057
<b>S447</b>	S405	54.7685	1.5	0.262	54.7659	134.2427	30	16.842	134.2411
<b>S447</b>	S448	36.6455	1.5	0.323	36.6423	176.1118	30	0	176.1118
<b>S447A</b>	S447	32.3373	1.5	0.05	32.3368	49.1057	30	0	49.1057
<b>S405</b>	S447	54.7604	1.5	-0.543	54.7659	334.2427	30	-21.449	334.2449
<b>S405</b>	S403	85.5014	1.5	-0.876	85.5102	164.7717	30	6.722	164.7711
<b>S405</b>	S404	70.1932	1.5	-0.841	70.2017	231.7767	30	14.727	231.7753
<b>S403</b>	S405	85.5054	1.5	-0.476	85.5102	364.7717	30	0.309	364.7717
<b>S403</b>	S402	49.8736	1.5	0.322	49.8704	254.3247	30	-0.309	254.3247
<b>S403</b>	S449	84.8874	1.5	0	84.8874	178.4587	30	0	178.4587
<b>S448</b>	S447	36.639	1.5	-0.323	36.6423	376.1118	30	0	376.1118

### 3. ΑΠΟΛΥΤΕΣ ΕΛΛΕΙΨΕΙΣ ΣΦΑΛΜΑΤΟΣ

a-posteriori μεταβλητότητα = 0.3715

a-posteriori τυπική απόκλιση = 0.61

βαθμοί ελευθερίας = 267

κριτήριο βελτιστοποίησης = 99.1826

i	Συντεταγμένες		Ημιάξονες		Αζιμούθιο
	x (m)	y (m)	a (cm)	b (cm)	A (grad)
S248	408794.749	4500453.324	0.0	0.0	0.000
S341	408828.547	4500503.513	0.5	0.2	35.060
S342	408849.360	4500543.256	0.3	0.2	145.580
S134	408796.731	4500567.300	0.0	0.0	0.000
S343	408877.990	4500595.515	0.5	0.4	15.490
S345	408894.229	4500624.178	0.4	0.2	150.640
S344	408893.893	4500531.420	0.4	0.3	136.230
S346	408876.154	4500477.872	0.6	0.2	31.030
S348	408922.700	4500564.328	0.6	0.4	30.650
S288	408842.459	4500423.581	0.0	0.0	0.000
S349	408941.755	4500601.121	0.4	0.3	135.230
S347	408916.556	4500502.524	0.7	0.3	150.040
S350	408936.559	4500496.455	0.6	0.4	147.780
S351	408959.100	4500466.694	0.4	0.4	96.770
S350A	408948.235	4500511.324	0.7	0.6	29.550
S352	408990.386	4500503.084	0.6	0.4	33.890
S353	408944.517	4500434.035	0.6	0.3	60.450
S354	408998.638	4500448.831	0.5	0.4	124.160
S355	409001.498	4500537.421	0.4	0.4	139.750
S356	408920.810	4500401.159	0.6	0.1	82.400
S294	408905.010	4500397.025	0.0	0.0	0.000
S357	409019.944	4500435.315	0.4	0.3	40.270
S358	409094.003	4500377.322	0.4	0.2	32.450
S359	409053.160	4500482.973	0.4	0.4	24.800
S360	409006.671	4500402.192	0.6	0.2	40.450
S297	408977.402	4500367.320	0.0	0.0	0.000
S299	409070.809	4500341.746	0.0	0.0	0.000
S361	409130.002	4500369.090	0.5	0.5	80.300
S362	409172.082	4500358.440	0.6	0.4	30.450
S363	409133.967	4500425.943	0.6	0.4	168.240
S364	409223.970	4500404.258	0.7	0.4	24.960
S365	409203.297	4500328.636	0.7	0.6	13.520
S366	409168.835	4500329.464	0.6	0.2	47.180
S304	409135.120	4500301.024	0.0	0.0	0.000
S367	409097.434	4500462.195	0.6	0.4	147.000
S368	409123.880	4500476.770	0.7	0.5	101.870
S369	409102.466	4500536.184	0.6	0.4	32.370
S370	409035.307	4500519.353	0.5	0.4	153.930
S371	409048.911	4500593.710	0.5	0.4	24.160
S372	408971.208	4500577.458	0.6	0.3	145.430

<b>S373</b>	408957.557	4500651.641	0.4	0.4	69.220
<b>S101</b>	408833.639	4500676.477	0.0	0.0	0.000
<b>S100</b>	408854.404	4500724.802	0.0	0.0	0.000
<b>S374</b>	408939.148	4500708.229	0.5	0.2	117.840
<b>S375</b>	408981.475	4500679.585	0.4	0.3	118.140
<b>S376</b>	408991.482	4500702.791	0.5	0.4	23.400
<b>S377</b>	409008.675	4500675.572	0.5	0.3	123.420
<b>S378</b>	409011.602	4500619.706	0.6	0.4	134.420
<b>S379</b>	409065.918	4500624.744	0.4	0.4	162.360
<b>S380</b>	409027.272	4500650.224	0.5	0.4	133.430
<b>S381</b>	409062.053	4500700.452	0.5	0.4	144.530
<b>S382</b>	409096.414	4500598.283	0.6	0.4	153.090
<b>S383</b>	409095.792	4500668.014	0.5	0.4	181.710
<b>S384</b>	409127.136	4500570.434	0.5	0.4	186.380
<b>S385</b>	409054.747	4500542.612	0.8	0.7	33.400
<b>S386</b>	409163.709	4500529.859	0.7	0.5	165.650
<b>S387</b>	409155.428	4500611.828	0.6	0.5	197.190
<b>S388</b>	409188.239	4500511.013	0.6	0.5	182.410
<b>S389</b>	409232.119	4500558.238	0.7	0.5	191.200
<b>S390</b>	409243.636	4500464.059	0.7	0.6	195.230
<b>S391</b>	409259.165	4500451.210	0.7	0.5	12.530
<b>S392</b>	409151.715	4500465.105	0.7	0.6	124.030
<b>S393</b>	409289.473	4500501.535	0.8	0.5	5.750
<b>S394</b>	409300.314	4500417.455	0.8	0.6	9.360
<b>S395</b>	409243.683	4500389.565	0.7	0.6	11.000
<b>S364A</b>	409181.077	4500441.054	0.8	0.6	155.760
<b>S397</b>	409228.745	4500370.057	0.8	0.6	21.690
<b>S396</b>	409260.646	4500375.005	0.8	0.6	13.300
<b>S398</b>	409285.971	4500366.120	1.1	0.8	123.230
<b>S399</b>	409283.524	4500399.897	0.9	0.6	23.010
<b>S400</b>	409323.049	4500426.011	1.0	0.7	29.010
<b>S401</b>	409362.045	4500470.718	1.1	0.7	19.810
<b>S402</b>	409398.771	4500514.551	1.1	0.7	6.070
<b>S403</b>	409436.332	4500547.357	1.2	0.7	2.540
<b>S404</b>	409357.784	4500558.432	1.0	0.7	1.850
<b>S405</b>	409391.359	4500620.085	1.1	0.7	189.740
<b>S406</b>	409327.364	4500544.286	0.9	0.6	198.840
<b>S407</b>	409294.218	4500569.856	0.9	0.6	182.260
<b>S408</b>	409263.477	4500606.285	0.8	0.5	183.640
<b>S409</b>	409157.541	4500632.494	0.6	0.5	183.620
<b>S410</b>	409181.943	4500665.571	0.6	0.5	175.530
<b>S411</b>	409119.141	4500716.867	0.5	0.4	167.710
<b>S412</b>	409047.450	4500710.956	0.5	0.4	129.850
<b>S413</b>	409006.868	4500731.345	0.4	0.4	20.240
<b>S414</b>	409075.514	4500745.918	0.5	0.4	143.300
<b>S415</b>	409022.665	4500782.458	0.4	0.4	176.890
<b>S416</b>	409119.641	4500789.375	0.6	0.5	192.400
<b>S414A</b>	409095.609	4500735.410	0.8	0.4	133.080
<b>S424A</b>	409161.730	4500764.934	0.7	0.5	6.100
<b>S418</b>	409152.626	4500699.857	0.6	0.5	156.890



<b>S417</b>	409215.477	4500697.026	0.7	0.6	194.180
<b>S419</b>	409252.958	4500749.305	0.8	0.5	173.940
<b>S420</b>	409259.949	4500673.411	0.8	0.7	180.440
<b>S421</b>	409297.183	4500714.071	0.9	0.6	174.020
<b>S422</b>	409184.272	4500756.119	0.7	0.6	184.730
<b>S423</b>	409220.817	4500800.305	0.8	0.5	164.380
<b>S424</b>	408952.182	4500764.009	0.6	0.4	166.150
<b>S413A</b>	409009.178	4500756.258	0.8	0.4	6.720
<b>S425</b>	409048.496	4500822.341	0.5	0.4	23.420
<b>S426</b>	408984.161	4500810.134	0.6	0.4	143.850
<b>S427</b>	408988.165	4500880.964	0.4	0.3	84.600
<b>S428</b>	409076.438	4500843.203	0.5	0.4	30.370
<b>S429</b>	409087.365	4500869.078	0.7	0.5	30.730
<b>S430</b>	409092.908	4500822.443	0.6	0.5	156.760
<b>S431</b>	409156.142	4500886.395	0.7	0.5	161.990
<b>S432</b>	409171.782	4500863.723	0.7	0.5	166.920
<b>S433</b>	409130.765	4500903.769	0.6	0.4	165.090
<b>S434</b>	408930.408	4500799.334	0.5	0.3	156.530
<b>S73</b>	408890.013	4500840.264	0.0	0.0	0.000
<b>S435</b>	408947.336	4500840.659	0.4	0.4	157.660
<b>S436</b>	408967.564	4500887.685	0.5	0.3	134.740
<b>S98</b>	408906.679	4500909.888	0.0	0.0	0.000
<b>S437</b>	409006.319	4500914.262	0.4	0.2	84.780
<b>S75</b>	408938.130	4500955.748	0.0	0.0	0.000
<b>S438</b>	409032.617	4500963.604	0.4	0.2	47.710
<b>S439</b>	409031.455	4500902.476	0.6	0.3	106.390
<b>S440</b>	409054.562	4500929.804	0.6	0.4	72.020
<b>S441</b>	409041.053	4500867.255	0.8	0.6	155.030
<b>S442</b>	409097.176	4500968.428	0.5	0.3	165.660
<b>S97</b>	408951.613	4500999.294	0.0	0.0	0.000
<b>S443</b>	409049.770	4500991.296	0.4	0.1	20.960
<b>S444</b>	409008.854	4501008.113	0.5	0.2	137.810
<b>S107</b>	409053.680	4501026.266	0.0	0.0	0.000
<b>S90</b>	408980.266	4501028.304	0.0	0.0	0.000
<b>S445</b>	409114.779	4500943.722	0.6	0.3	164.440
<b>S446</b>	409191.823	4500820.260	0.7	0.5	172.010
<b>S447</b>	409344.314	4500648.123	1.0	0.6	182.070
<b>S447A</b>	409321.781	4500624.929	1.1	0.8	10.060
<b>S448</b>	409357.757	4500614.035	1.2	0.7	184.040
<b>S449</b>	409464.548	4500467.296	1.6	0.9	5.870

### 3. ΣΧΕΤΙΚΕΣ ΕΛΛΕΙΨΕΙΣ ΣΦΑΛΜΑΤΟΣ

a-posteriori μεταβλητότητα = 0.3715

a-posteriori τυπική απόκλιση = 0.61

βαθμοί ελευθερίας = 267

κριτήριο βελτιστοποίησης = 99.1826

από	προς	ημιάξονες		αζιμούθιο	απόσταση	ΤΑ απόστασης	αζιμούθιο	Τ.Α. αζιμουθίου
		(cm)	(cm)	(grad)	(m)	(cm)	(grad)	(cc)
S248	S341	0.50	0.20	35.060	60.508	0.50	37.7298	24.5
S342	S343	0.60	0.20	14.280	59.587	0.60	31.9069	28.7
S344	S348	0.70	0.20	21.220	43.736	0.60	45.7758	43.3
S347	S350	0.70	0.10	198.260	20.903	0.20	118.7535	212.6
S350	S350A	0.90	0.30	17.690	18.905	0.90	42.3793	156.1
S351	S353	0.60	0.30	20.860	35.767	0.60	226.7362	47.7
S351	S354	0.60	0.30	179.240	43.386	0.40	127.0142	67.4
S353	S356	0.50	0.30	21.640	40.533	0.50	239.7720	52.1
S357	S359	0.60	0.10	4.990	58.092	0.50	38.7495	33.1
S357	S360	0.60	0.10	15.460	35.683	0.60	224.2649	21.9
S358	S361	0.60	0.40	181.830	36.928	0.50	114.3115	98.0
S362	S363	0.80	0.20	185.620	77.520	0.80	367.2773	24.4
S362	S364	0.80	0.30	1.290	69.222	0.60	53.9504	58.5
S362	S365	0.80	0.40	193.440	43.159	0.70	148.5277	90.0
S362	S366	0.70	0.20	6.250	29.158	0.70	207.1024	36.8
S363	S367	0.80	0.10	194.950	51.467	0.60	349.7539	62.5
S367	S368	0.70	0.40	11.560	30.196	0.60	67.9337	133.4
S359	S369	0.70	0.30	12.940	72.543	0.60	47.5760	37.8
S359	S370	0.60	0.20	183.720	40.524	0.60	370.9563	42.4
S355	S371	0.60	0.10	4.700	73.597	0.50	44.5646	31.7
S355	S372	0.60	0.20	182.860	50.204	0.60	358.7678	37.4
S349	S373	0.40	0.10	14.190	52.933	0.40	19.2998	11.0
S100	S374	0.50	0.20	117.840	86.349	0.50	112.2949	17.7
S375	S376	0.60	0.00	9.500	25.272	0.60	25.9176	39.0
S375	S377	0.50	0.30	180.820	27.494	0.40	109.3240	116.8
S373	S378	0.60	0.30	180.300	62.775	0.50	133.9758	49.0
S380	S381	0.60	0.10	2.660	61.095	0.50	38.5562	36.4
S379	S382	0.70	0.30	185.260	40.375	0.60	145.4971	75.3
S379	S383	0.70	0.10	2.610	52.581	0.60	38.4671	43.8
S382	S385	1.00	0.40	15.340	69.537	0.90	240.9033	47.9
S384	S386	0.80	0.30	191.410	54.625	0.70	153.2993	61.7
S384	S387	0.80	0.20	3.090	50.139	0.70	38.1677	57.4
S388	S389	0.90	0.10	0.110	64.464	0.70	47.6639	62.5
S388	S390	0.90	0.30	199.460	72.620	0.60	144.7604	63.7
S390	S392	0.90	0.30	198.020	91.927	0.30	300.7248	62.7
S391	S393	1.10	0.20	198.680	58.747	0.90	34.5087	64.2
S391	S394	1.10	0.40	198.820	53.223	0.80	143.7357	103.6
S364	S395	1.00	0.30	195.230	24.585	0.70	140.7770	198.5
S364	S364A	1.00	0.50	182.680	56.513	0.90	345.1382	76.3

S365	S397	1.00	0.20	2.450	48.614	0.90	35.0725	67.7
S395	S396	1.10	0.20	197.450	22.356	0.70	145.1563	224.9
S396	S398	1.20	0.80	177.580	26.838	1.00	121.4821	251.4
S396	S399	1.10	0.20	3.470	33.808	0.90	47.3178	141.0
S394	S400	1.20	0.40	5.180	24.291	0.70	77.0860	297.9
S402	S403	1.70	0.10	199.460	49.870	1.10	54.2954	161.7
S404	S405	1.50	0.20	196.760	70.202	1.30	31.7465	71.3
S406	S407	1.30	0.20	194.110	41.863	0.90	341.8316	141.7
S389	S408	1.00	0.20	198.200	57.375	0.80	36.8120	66.4
S387	S409	0.80	0.10	199.350	20.773	0.80	6.4869	36.7
S409	S410	0.80	0.10	0.170	41.104	0.70	40.4647	78.8
S383	S381	0.40	0.10	156.820	46.803	0.40	348.7489	18.2
S383	S411	0.80	0.10	199.090	54.146	0.70	28.3842	42.3
S414	S416	0.70	0.20	5.970	61.933	0.60	50.4865	50.3
S414	S414A	0.80	0.50	167.960	22.676	0.70	130.6725	168.2
S411	S424A	0.90	0.30	6.770	64.221	0.70	46.1577	55.5
S411	S418	0.80	0.30	193.690	37.558	0.50	129.9216	115.8
S410	S418	0.90	0.20	195.140	45.112	0.70	354.9631	76.7
S410	S417	0.90	0.30	5.480	45.977	0.70	52.0362	92.0
S417	S419	1.10	0.00	197.550	64.326	0.80	39.5975	63.8
S417	S420	1.10	0.40	197.500	50.353	0.60	131.0766	121.0
S418	S422	0.90	0.30	4.420	64.551	0.80	32.6188	46.9
S413	S413A	0.90	0.10	2.470	25.021	0.90	5.8874	26.0
S415	S425	0.70	0.10	4.270	47.517	0.60	36.5893	46.2
S415	S426	0.70	0.30	182.730	47.418	0.60	339.6760	65.2
S425	S428	0.70	0.20	5.630	34.871	0.50	59.1699	94.6
S428	S429	0.80	0.20	8.410	28.087	0.80	25.4384	68.1
S416	S432	0.90	0.10	195.500	90.809	0.70	38.9359	40.0
S435	S426	0.40	0.10	157.620	47.832	0.40	144.0620	20.9
S435	S436	0.60	0.10	194.340	51.192	0.50	25.8611	34.9
S437	S439	0.50	0.30	139.720	27.761	0.50	127.9120	76.4
S439	S441	0.80	0.40	188.500	36.506	0.80	183.0630	64.2
S443	S444	0.60	0.30	156.510	44.238	0.50	324.8244	53.8
S107	S442	0.50	0.30	165.660	72.368	0.50	158.9512	23.6
S442	S445	0.70	0.30	185.390	30.336	0.70	160.5878	75.2
S445	S433	0.50	0.20	192.720	43.032	0.50	175.7703	30.9
S433	S431	0.40	0.10	160.280	30.754	0.40	138.2191	34.8
S446	S423	0.40	0.20	145.250	35.197	0.40	138.3754	38.4
S419	S421	1.20	0.30	199.170	56.545	0.80	142.8263	103.2
S421	S447	1.40	0.20	0.970	81.059	1.10	160.4975	65.2
S447	S447A	1.50	0.40	7.790	32.337	1.20	249.0808	187.2
S447	S405	0.40	0.00	197.810	54.766	0.20	134.2162	37.3
S447	S448	1.50	0.30	198.110	36.642	1.50	176.0869	102.7
S403	S449	2.00	0.60	1.740	84.887	1.90	178.4293	68.3
S344	S348	0.70	0.20	21.220	43.736	0.60	45.7758	43.3
S350	S350A	0.90	0.30	17.690	18.905	0.90	42.3793	156.1
S351	S353	0.60	0.30	20.860	35.767	0.60	226.7362	47.7
S351	S354	0.60	0.30	179.240	43.386	0.40	127.0142	67.4
S353	S356	0.50	0.30	21.640	40.533	0.50	239.7720	52.1
S357	S359	0.60	0.10	4.990	58.092	0.50	38.7495	33.1

S357	S360	0.60	0.10	15.460	35.683	0.60	224.2649	21.9
S358	S361	0.60	0.40	181.830	36.928	0.50	114.3115	98.0
S362	S363	0.80	0.20	185.620	77.520	0.80	367.2773	24.4
S362	S364	0.80	0.30	1.290	69.222	0.60	53.9504	58.5
S362	S365	0.80	0.40	193.440	43.159	0.70	148.5277	90.0
S362	S366	0.70	0.20	6.250	29.158	0.70	207.1024	36.8
S363	S367	0.80	0.10	194.950	51.467	0.60	349.7539	62.5
S367	S368	0.70	0.40	11.560	30.196	0.60	67.9337	133.4
S359	S369	0.70	0.30	12.940	72.543	0.60	47.5760	37.8
S359	S370	0.60	0.20	183.720	40.524	0.60	370.9563	42.4
S355	S371	0.60	0.10	4.700	73.597	0.50	44.5646	31.7
S355	S372	0.60	0.20	182.860	50.204	0.60	358.7678	37.4
S349	S373	0.40	0.10	14.190	52.933	0.40	19.2998	11.0
S100	S374	0.50	0.20	117.840	86.349	0.50	112.2949	17.7
S375	S376	0.60	0.00	9.500	25.272	0.60	25.9176	39.0
S375	S377	0.50	0.30	180.820	27.494	0.40	109.3240	116.8
S373	S378	0.60	0.30	180.300	62.775	0.50	133.9758	49.0
S380	S381	0.60	0.10	2.660	61.095	0.50	38.5562	36.4
S379	S382	0.70	0.30	185.260	40.375	0.60	145.4971	75.3
S379	S383	0.70	0.10	2.610	52.581	0.60	38.4671	43.8
S382	S385	1.00	0.40	15.340	69.537	0.90	240.9033	47.9
S384	S386	0.80	0.30	191.410	54.625	0.70	153.2993	61.7
S384	S387	0.80	0.20	3.090	50.139	0.70	38.1677	57.4
S388	S389	0.90	0.10	0.110	64.464	0.70	47.6639	62.5
S388	S390	0.90	0.30	199.460	72.620	0.60	144.7604	63.7
S390	S392	0.90	0.30	198.020	91.927	0.30	300.7248	62.7
S391	S393	1.10	0.20	198.680	58.747	0.90	34.5087	64.2
S391	S394	1.10	0.40	198.820	53.223	0.80	143.7357	103.6
S364	S395	1.00	0.30	195.230	24.585	0.70	140.7770	198.5
S364	S364A	1.00	0.50	182.680	56.513	0.90	345.1382	76.3
S365	S397	1.00	0.20	2.450	48.614	0.90	35.0725	67.7
S395	S396	1.10	0.20	197.450	22.356	0.70	145.1563	224.9
S396	S398	1.20	0.80	177.580	26.838	1.00	121.4821	251.4
S396	S399	1.10	0.20	3.470	33.808	0.90	47.3178	141.0
S394	S400	1.20	0.40	5.180	24.291	0.70	77.0860	297.9
S402	S403	1.70	0.10	199.460	49.870	1.10	54.2954	161.7
S404	S405	1.50	0.20	196.760	70.202	1.30	31.7465	71.3
S406	S407	1.30	0.20	194.110	41.863	0.90	341.8316	141.7
S389	S408	1.00	0.20	198.200	57.375	0.80	36.8120	66.4
S387	S409	0.80	0.10	199.350	20.773	0.80	6.4869	36.7
S409	S410	0.80	0.10	0.170	41.104	0.70	40.4647	78.8
S383	S381	0.40	0.10	156.820	46.803	0.40	348.7489	18.2
S383	S411	0.80	0.10	199.090	54.146	0.70	28.3842	42.3
S414	S416	0.70	0.20	5.970	61.933	0.60	50.4865	50.3
S414	S414A	0.80	0.50	167.960	22.676	0.70	130.6725	168.2
S411	S424A	0.90	0.30	6.770	64.221	0.70	46.1577	55.5
S411	S418	0.80	0.30	193.690	37.558	0.50	129.9216	115.8
S410	S418	0.90	0.20	195.140	45.112	0.70	354.9631	76.7
S410	S417	0.90	0.30	5.480	45.977	0.70	52.0362	92.0
S417	S419	1.10	0.00	197.550	64.326	0.80	39.5975	63.8

S417	S420	1.10	0.40	197.500	50.353	0.60	131.0766	121.0
S418	S422	0.90	0.30	4.420	64.551	0.80	32.6188	46.9
S413	S413A	0.90	0.10	2.470	25.021	0.90	5.8874	26.0
S415	S425	0.70	0.10	4.270	47.517	0.60	36.5893	46.2
S415	S426	0.70	0.30	182.730	47.418	0.60	339.6760	65.2
S425	S428	0.70	0.20	5.630	34.871	0.50	59.1699	94.6
S428	S429	0.80	0.20	8.410	28.087	0.80	25.4384	68.1
S416	S432	0.90	0.10	195.500	90.809	0.70	38.9359	40.0
S435	S426	0.40	0.10	157.620	47.832	0.40	144.0620	20.9
S435	S436	0.60	0.10	194.340	51.192	0.50	25.8611	34.9
S437	S439	0.50	0.30	139.720	27.761	0.50	127.9120	76.4
S439	S441	0.80	0.40	188.500	36.506	0.80	183.0630	64.2
S443	S444	0.60	0.30	156.510	44.238	0.50	324.8244	53.8
S107	S442	0.50	0.30	165.660	72.368	0.50	158.9512	23.6
S442	S445	0.70	0.30	185.390	30.336	0.70	160.5878	75.2
S445	S433	0.50	0.20	192.720	43.032	0.50	175.7703	30.9
S433	S431	0.40	0.10	160.280	30.754	0.40	138.2191	34.8
S446	S423	0.40	0.20	145.250	35.197	0.40	138.3754	38.4
S419	S421	1.20	0.30	199.170	56.545	0.80	142.8263	103.2
S421	S447	1.40	0.20	0.970	81.059	1.10	160.4975	65.2
S447	S447A	1.50	0.40	7.790	32.337	1.20	249.0808	187.2
S447	S405	0.40	0.00	197.810	54.766	0.20	134.2162	37.3
S447	S448	1.50	0.30	198.110	36.642	1.50	176.0869	102.7
S403	S449	2.00	0.60	1.740	84.887	1.90	178.4293	68.3