

◦ DIONYSOS SATELLITE OBSERVATORY  
◦ PROGRAM DIFF

N.T.U. Athens ◦  
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From 1995 to 98a



## ΣΥΝΤΕΤΑΓΜΕΝΕΣ ΣΤΗΝ ΠΡΩΤΗ ΕΠΟΧΗ

1	HYDR,	4626383.770	1886982.837	3951894.838
2	TRIV,	4623667.118	1886338.107	3955438.930
3	LEVK,	4621284.915	1885650.143	3958761.706
4	PNTG,	4626811.185	1874397.899	3958350.530
5	SIXB,	4628830.906	1882134.196	3951405.939
6	KOKK,	4627397.723	1880774.553	3954288.804
7	FIVA,	4627767.725	1882687.684	3952421.203
8	AGPA,	4632880.557	1897503.316	3939382.846
9	PENT,	4628581.828	1889602.158	3948105.247
10	POTI,	4633061.745	1878623.554	3948955.803
11	GALA,	4626225.318	1907914.441	3941405.192
12	TOLO,	4639429.439	1891801.148	3933803.083



## ΣΥΝΤΕΤΑΓΜΕΝΕΣ ΣΤΗΝ ΔΕΥΤΕΡΗ ΕΠΟΧΗ

1	HYDR ,	4626383.6540	1886982.8996	3951894.7356
2	TRIV ,	4623667.0405	1886338.1906	3955438.8698
3	LEVK ,	4621284.8152	1885650.2085	3958761.6371
4	PNTG ,	4626811.0440	1874397.9517	3958350.4208
5	SIXB ,	4628830.8125	1882134.2186	3951405.8377
6	KOKK ,	4627397.5814	1880774.5990	3954288.6751
7	FIVA ,	4627767.5966	1882687.7413	3952421.0842
8	AGPA ,	4632880.4730	1897503.3878	3939382.7130
9	PENT ,	4628581.7289	1889602.2543	3948105.1487
10	POTI ,	4633061.6357	1878623.6198	3948955.6812
11	GALA ,	4626225.2310	1907914.4722	3941405.1146
12	TOLO ,	4639429.3890	1891801.2304	3933802.9979



1	HYDR,	342171.435	4266119.307
2	TRIV,	342688.733	4270600.270
3	LEVK,	343032.786	4274728.577
4	PNTG,	330515.261	4274112.978
5	SIXB,	336746.713	4265572.856
6	KOKK,	336096.659	4268987.358
7	FIVA,	337685.629	4266831.655
8	AGPA,	349141.683	4249971.980
9	PENT,	343670.653	4261241.151
10	POTI,	331831.254	4262138.668
11	GALA,	361349.896	4252702.596
12	TOLO,	341258.066	4243324.378



### Diffs between two sets

1	HYDR	,	-0.116	0.063	-0.102
2	TRIV	,	-0.077	0.084	-0.060
3	LEVK	,	-0.100	0.066	-0.069
4	PNTG	,	-0.141	0.053	-0.109
5	SIXB	,	-0.094	0.023	-0.101
6	KOKK	,	-0.142	0.046	-0.129
7	FIVA	,	-0.128	0.057	-0.119
8	AGPA	,	-0.084	0.072	-0.133
9	PENT	,	-0.099	0.096	-0.098
10	POTI	,	-0.109	0.066	-0.122
11	GALA	,	-0.087	0.031	-0.077
12	TOLO	,	-0.050	0.082	-0.085
X translation:			-0.102 ± 0.027		
Y translation:			0.061 ± 0.021		
Z translation:			-0.100 ± 0.024		



### Remaining diffs between two sets after a 3D translation

1	HYDR	,	-0.014	0.001	-0.002
2	TRIV	,	0.025	0.022	0.040
3	LEVK	,	0.002	0.004	0.032
4	PNTG	,	-0.039	-0.009	-0.009
5	SIXB	,	0.009	-0.039	-0.001
6	KOKK	,	-0.039	-0.015	-0.028
7	FIVA	,	-0.026	-0.004	-0.018
8	AGPA	,	0.018	0.010	-0.033
9	PENT	,	0.003	0.035	0.002
10	POTI	,	-0.007	0.004	-0.021
11	GALA	,	0.015	-0.030	0.023
12	TOLO	,	0.052	0.021	0.015



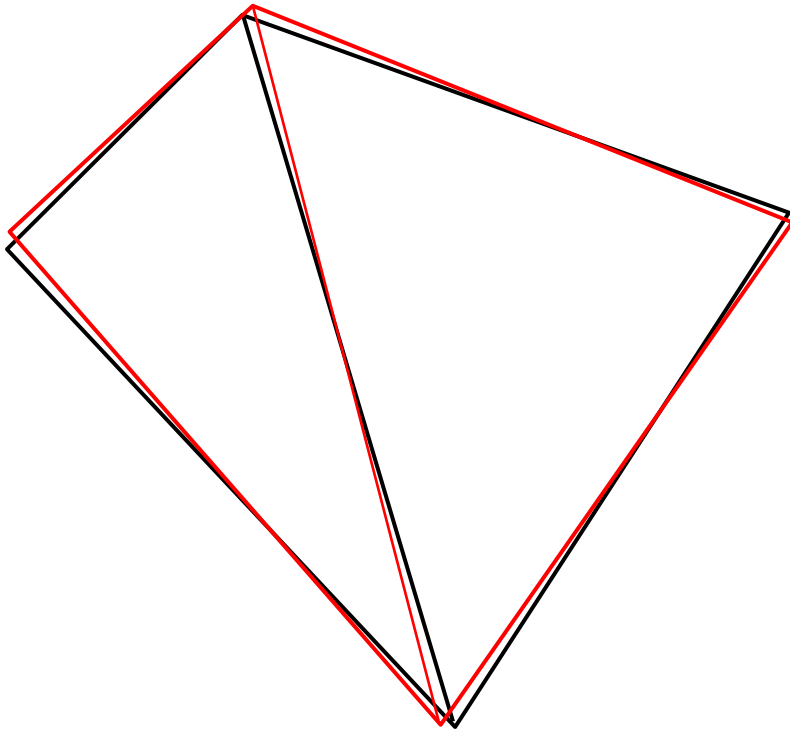
**Remaining diffs converted to North-East-Up**

1	HYDR	,	0.006	0.006	-0.011
2	TRIV	,	0.012	0.011	0.050
3	LEVK	,	0.022	0.003	0.023
4	PNTG	,	0.018	0.006	-0.036
5	SIXB	,	0.003	-0.039	-0.006
6	KOKK	,	0.004	0.000	-0.051
7	FIVA	,	0.002	0.006	-0.032
8	AGPA	,	-0.038	0.003	-0.004
9	PENT	,	-0.008	0.031	0.014
10	POTI	,	-0.014	0.007	-0.017
11	GALA	,	0.016	-0.034	0.016
12	TOLO	,	-0.023	-0.000	0.054
North translation:			0.000 ±	0.018	
East translation:			-0.000 ±	0.019	
Up translation:			0.000 ±	0.033	

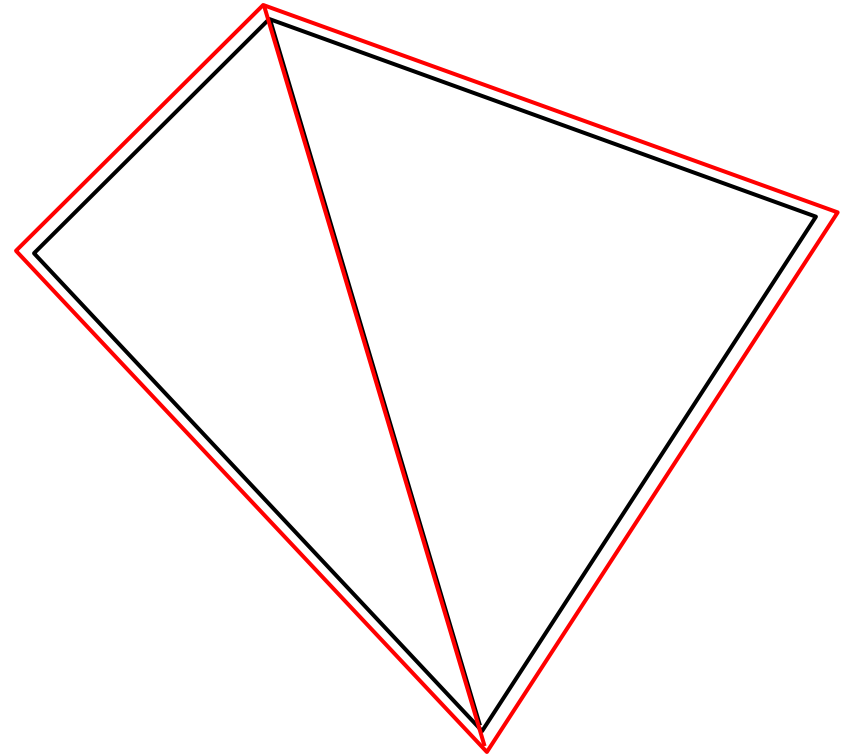
**Center at E= 341349.064 N= 4263027.648**

**Coefficients: s= 0.490 r= 0.23764**





**Rotation : 2 degrees**



**Scale : 5%**





**Computed diffs based on coefficients s,r**

1	HYDR	,	0.001	0.001
2	TRIV	,	0.003	0.002
3	LEVK	,	0.005	0.004
4	PNTG	,	0.008	-0.003
5	SIXB	,	0.002	-0.002
6	KOKK	,	0.004	-0.001
7	FIVA	,	0.003	-0.001
8	AGPA	,	-0.008	0.001
9	PENT	,	-0.001	0.001
10	POTI	,	0.002	-0.005
11	GALA	,	-0.010	0.007
12	TOLO	,	-0.010	-0.005



**Remaining diffs at North-East-Up after scalling and rotating (horizontal only)**

1	HYDR	,	0.005	0.005	-0.011
2	TRIV	,	0.009	0.009	0.050
3	LEVK	,	0.017	-0.001	0.023
4	PNTG	,	0.010	0.009	-0.036
5	SIXB	,	0.001	-0.038	-0.006
6	KOKK	,	-0.000	0.002	-0.051
7	FIVA	,	-0.001	0.007	-0.032
8	AGPA	,	-0.030	0.002	-0.004
9	PENT	,	-0.007	0.030	0.014
10	POTI	,	-0.015	0.012	-0.017
11	GALA	,	0.026	-0.041	0.016
12	TOLO	,	-0.013	0.004	0.054
North translation:			0.000 ±	0.015	
East translation:			-0.000 ±	0.020	

