

pontszám	főtemagasság (m)	terepmagasság (m)	különbség (m)
2	250,38	252,563	2,18
3	250,068	252,718	2,65
4	249,468	251,403	1,94
5	249,107	251,352	2,25
6	249,075	250,633	1,56
7	248,243	250,746	2,50
8	248,008	252,036	4,03
9	247,732	252,821	5,09
10	249,219	250,576	1,36
11	249,174	250,393	1,22
12	247,332	250,441	3,11
13	248,698	250,979	2,28
14	248,547	252,764	4,22
15	247,308	252,791	5,48
16	246,365	255,352	8,99
17	245,505	252,993	7,49
18	245,355	253,737	8,38

poligon pontok-főág			
	Y	X	Z
2	614128,2	212213,8	249,9
I	614127,2	212213,5	249,7
II	614126,3	212213,3	249,5
3	614125,3	212213,0	249,3
V	614124,4	212213,1	249,0
VI	614123,4	212213,1	248,6
6	614121,8	212213,3	248,1
X	614120,8	212213,3	248,2
XI	614119,9	212213,4	248,3
10	614118,7	212213,4	248,4
11	614117,6	212213,1	248,3
XIII	614116,6	212213,0	248,0
13	614115,5	212212,9	247,6
14	614114,1	212212,6	246,8
XV	614113,5	212212,6	246,8
XVI	614112,5	212212,5	246,7
XVII	614111,5	212212,5	246,7
XVIII	614110,5	212212,5	246,6
15	614109,0	212212,5	246,5

terepi pontok-főág			
	Y	X	Z
2	614128,2	212213,8	252,5
I	614127,2	212213,6	253,3
II	614126,3	212213,3	254,1
3	614125,3	212213,0	252,73
V	614124,4	212213,1	251,4
VI	614123,4	212213,1	250,5
6	614121,8	212213,2	250,6
X	614120,8	212213,3	250,7
XI	614119,8	212213,3	250,6
10	614118,7	212213,4	250,6
11	614117,5	212213,1	250,4
XIII	614116,6	212213,0	250,2
13	614115,5	212212,9	251,0
14	614114,1	212212,6	252,8
XV	614113,5	212212,6	253,5
XVI	614112,5	212212,6	254,0
XVII	614111,5	212212,5	254,0
XVIII	614110,5	212212,5	253,5
15	614109,0	212212,5	252,6

Pontszám	Eltérések		
	Y	X	Z
2	0,02	0,01	2,64
I	0,01	0,02	3,63
II	0,00	0,01	4,59
3	0,01	0,03	3,40
V	0,01	0,01	2,38
VI	0,00	0,00	1,90
6	0,00	0,00	2,56
X	0,00	0,00	2,54
XI	0,00	-0,01	2,30
10	-0,01	0,00	2,14
11	-0,01	0,01	2,07
XIII	0,00	-0,01	2,21
13	0,00	0,00	3,42
14	-0,01	0,00	5,93
XV	0,00	0,00	6,69
XVI	0,00	0,01	7,31
XVII	0,01	0,01	7,31
XVIII	0,01	0,00	6,95
15	-0,01	0,01	6,10

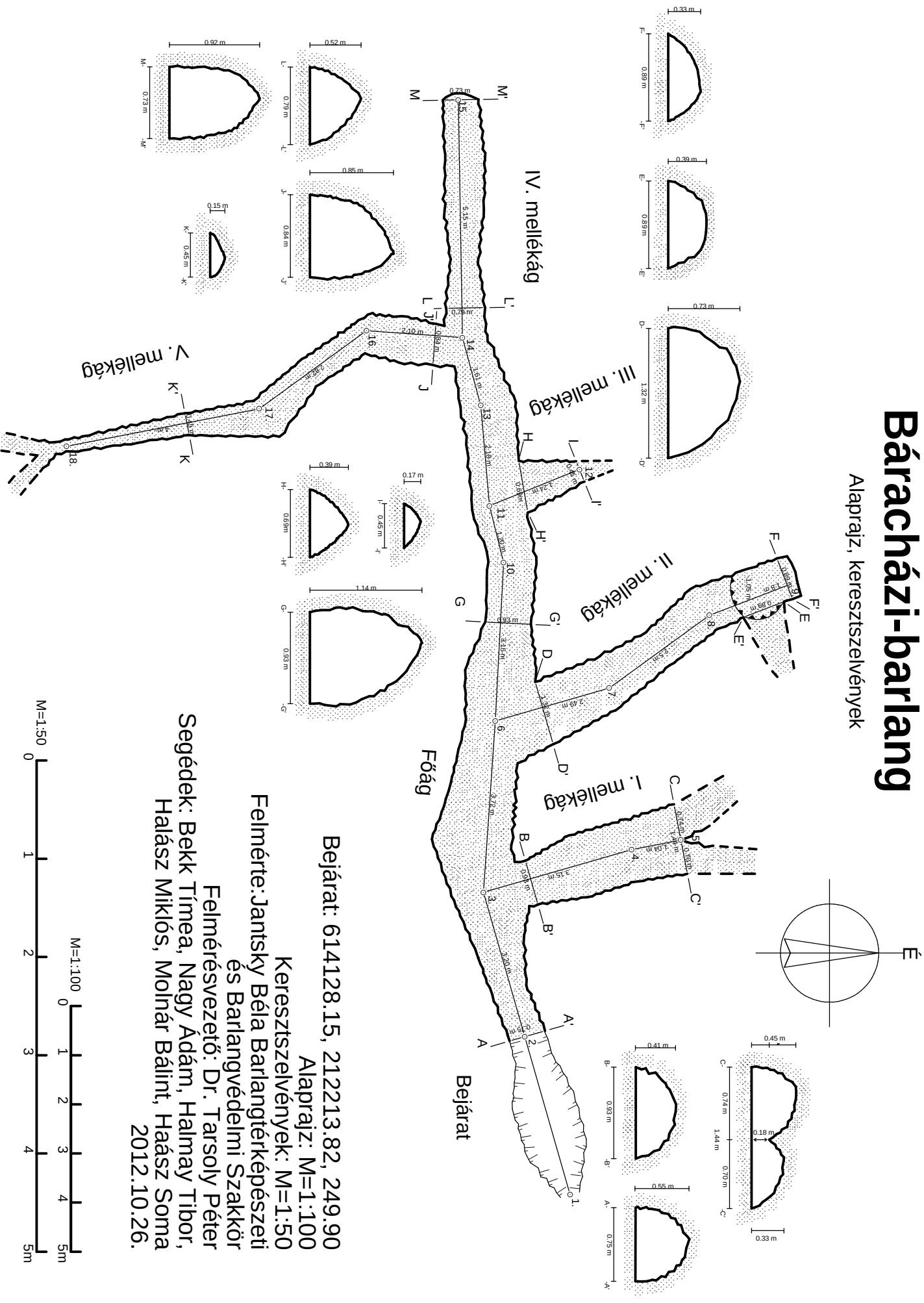
II. mellékág	barlangi pontok			tereppontok			eltérések	
	Y	X	Z	Y	X	Z	Y	X
6	614121,83	212213,25	248,06	614121,83	212213,25	250,62	0,00	0,00
VII	614121,57	212214,19	247,81	614121,58	212214,18	250,71	0,02	0,00
7	614121,17	212215,58	247,45	614121,17	212215,57	250,75	0,00	-0,01
VIII	614120,43	212216,59	247,23	614120,43	212216,58	251,48	0,00	-0,01
8	614119,68	212217,61	247,01	614119,71	212217,62	252,04	0,03	0,01
9	614119,07	212219,20	246,42	614119,07	212219,20	252,82	0,00	-0,01
V. mellékág	Y	X	Z	Y	X	Z	Y	X
14	614114,1	212212,6	246,8	614114,12	212212,58	252,75976	0,0	0,0
XX	614114,09	212212,06	246,636	614114,1	212212,05	253,21321	0,0	0,0
XXI	614114,04	212211,4	246,386	614114,06	212211,4	254,07574	0,0	0,0
16	614113,99	212210,62	246,085	614113,99	212210,62	255,33453	0,0	0,0
XXII	614114,84	212209,45	245,696	614114,83	212209,46	255,41311	0,0	0,0
17	614115,59	212208,42	245,355	614115,59	212208,42	253,03366	0,0	0,0
XXIII	614115,88	212206,95	245,355	614115,88	212206,96	253,1991	0,0	0,0
18	614116,35	212204,49	245,355	614116,36	212204,5	253,72671	0,0	0,0

Z
2,56
2,90
3,29
4,25
5,03
6,40
Z
5,9
6,6
7,7
9,2
9,7
7,7
7,8
8,4

VELENCEI-HEGYSÉG, PÁKOZD

Bárácházi-barlang

Alaprajz, keresztmetszvények





Munkaszám:

Székesfehérvár
Külterület

Mérési jegyzőkönyv

Szadolgozat 2014

Vetület: EOV

Magasság: Balti

Mérőeszköz típusa, száma:



Álláspont: 1 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
2	254.0000	107.0000	3.500				3.347	-1.023

Álláspont: 2 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
3	254.0000	101.0000	3.120				3.063	-0.595

Álláspont: 3 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
4	344.0000	94.0000	3.150				3.142	-0.220
6	274.0000	110.0000	3.720				3.496	-1.272

Álláspont: 4 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
5	349.0000	100.0000	1.040				1.024	-0.181

Álláspont: 6 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
7	344.0000	104.0000	2.490				2.416	-0.602
10	273.0000	83.0000	3.250				3.226	0.396

Álláspont: 7 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
8	324.0000	100.0000	2.560				2.521	-0.445

Álláspont: 8 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
9	339.0000	109.0000	1.800				1.702	-0.586

Álláspont: 10 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
11	256.0000	96.0000	1.200				1.193	-0.125

Álláspont: 11 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
12	338.0000	118.0000	2.240				1.978	-1.052
13	265.0000	110.0000	2.180				2.049	-0.746

Álláspont: 13 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
14	255.0000	117.0000	1.610				1.435	-0.731

Álláspont: 14 (műszermagasság =)

Psz	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
15	269.0000	110.0000	5.150				4.839	-1.761

16	184.0000	111.0000	2.100				1.960	-0.753
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Álláspont: 16 (műszermagasság =)

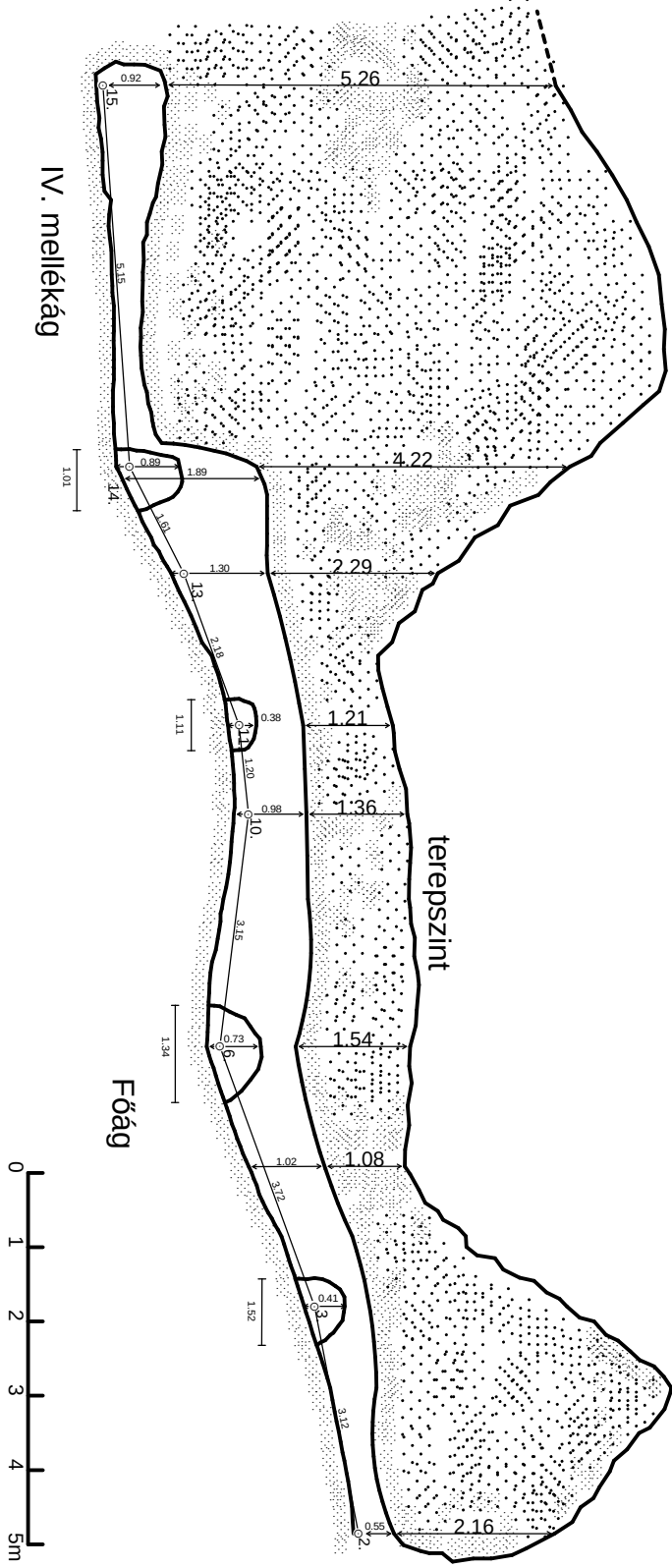
PsZ	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
17	144.0000	105.0000	2.800				2.705	-0.725

Álláspont: 17 (műszermagasság =)

PsZ	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
18	169.0000	0.0000	4.000	4.000			4.000	4.000

A főág és a IV. mellékág kiterített hosszsz metszete, a terepfelszín és a barlang együttesen ábrázolásával

M=1:100



Gridding Report

Sun Apr 20 17:40:36 2014

Elapsed time for gridding: 4.49 seconds

Data Source

Source Data File Name: C:\SZAKDOGA\surfer\koordsurfer2.txt
X Column: A
Y Column: B
Z Column: C

Data Counts

Active Data: 3152

Original Data: 3153
Excluded Data: 0
Deleted Duplicates: 1
Retained Duplicates: 1
Artificial Data: 0
Superseded Data: 0

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 1.7E-005
Y Duplicate Tolerance: 1.9E-005

Deleted Duplicates: 1
Retained Duplicates: 1
Artificial Data: 0

X	Y	Z	ID	Status
614063.9	212188.2	254.03	1911	Retained
614063.9	212188.2	239.66	2229	Deleted

Breakline Filtering

Breakline Filtering: Not In Use

Data Counts

Active Data: 3152

Univariate Statistics

	X	Y	Z
Count:	3152	3152	3152
1%%-tile:	614013.6	212135.5	239.16
5%%-tile:	614031.9	212145.9	244.045
10%%-tile:	614045.3	212155.3	245.59
25%%-tile:	614065.1	212183.1	248.448
50%%-tile:	614088.9	212216.745	252.49
75%%-tile:	614117.6	212252.2	255.35
90%%-tile:	614131.4	212271.3	258.09
95%%-tile:	614136.7	212280.7	260.06
99%%-tile:	614147	212291.5	264.47
Minimum:	614006.5	212132.222	235.33
Maximum:	614153	212296.4	267.83
Mean:	614088.933732	212216.673165	252.099170685
Median:	614088.9	212216.7725	252.49
Geometric Mean:	614088.93284	212216.668938	252.048821486
Harmonic Mean:	614088.931948	212216.664712	251.998348712
Root Mean Square:	614088.934624	212216.677391	252.149398214
Trim Mean (10%%):	614089.701147	212217.026098	252.121274233
Interquartile Mean:	614089.544692	212218.907765	252.354445783
Midrange:	614079.75	212214.311	251.58
Winsorized Mean:	614089.790571	212216.692816	252.077665926
TriMean:	614090.125	212217.1975	252.1945
Variance:	1095.81895605	1794.36080107	25.3351973577
Standard Deviation:	33.1031562853	42.3598961409	5.03340812549
Interquartile Range:	52.5	69.1	6.902
Range:	146.5	164.178	32.5
Mean Difference:	37.9050941015	48.7787059871	5.65193504359
Median Abs. Deviation:	26.2	34.7275	3.38
Average Abs. Deviation:	28.0665069797	36.028759835	4.02553489848
Quartile Dispersion:	4.27460832985e-005	0.000162804554664	0.0136999352915
Relative Mean Diff.:	6.17257403927e-005	0.000229853315763	0.0224194908227
Standard Error:	0.589625557654	0.754504409458	0.0896538700815
Coef. of Variation:	5.39061273815e-005	0.00019960682405	0.0199659844648
Skewness:	-0.212488578065	-0.156486416279	-0.134244915958
Kurtosis:	2.22726625841	1.96786175636	3.16535481236

Sum:	1935608319.12	668906953.815	794616.586
Sum Absolute:	1935608319.12	668906953.815	794616.586
Sum Squares:	1.18863565226e+015	1.41953214049e+014	200402013.55
Mean Square:	377105219627	45035918162.9	63579.3190197

Inter-Variable Covariance

	X	Y	Z
X:	1095.819	-116.766	-19.944472
Y:	-116.766	1794.3608	128.38684
Z:	-19.944472	128.38684	25.335197

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.083	-0.120
Y:	-0.083	1.000	0.602
Z:	-0.120	0.602	1.000

Inter-Variable Rank Correlation

	X	Y	Z
X:	1.000	-0.081	-0.126
Y:	-0.081	1.000	0.645
Z:	-0.126	0.645	1.000

Principal Component Analysis

	PC1	PC2	PC3
X:	0.987041014187	0.987041014187	0.0107115067024
Y:	0.160465815452	0.160465815452	-0.0713004353903
Z:	0.000870852575976	0.000870852575976	-0.0713004353903
Lambda:	1822.75346627	1076.81840809	15.9430801164

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0106502712337	0.0708571272496	-8244.75093835
Standard Error:	0.00216253517439	0.00168996495204	1404.099244

Inter-Parameter Correlations

	A	B	C
A:	1.000	0.083	-0.967
B:	0.083	1.000	-0.334
C:	-0.967	-0.334	1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	29334.3504068	14667.1752034	
	914.649701913			
Residual:	3149	50496.8564674	16.0358388274	
Total:	3151	79831.2068742		

Coefficient of Multiple Determination (R^2): 0.36745467788

Nearest Neighbor Statistics

	Separation	Delta Z
1%%-tile:	0.141421356225	0.00999999999999
5%%-tile:	0.360555127495	0.03
10%%-tile:	0.509901951355	0.05
25%%-tile:	0.94339811322	0.13
50%%-tile:	1.10000000001	0.32
75%%-tile:	1.2806248475	0.856
90%%-tile:	1.52643375228	3.102
95%%-tile:	1.66433169772	5.34
99%%-tile:	1.86815416927	10.28
Minimum:	0.0314006369141	0
Maximum:	5.38516480711	17.15
Mean:	1.07323065111	1.08503140863
Median:	1.10000000001	0.32

Geometric Mean:	0.976502598813	N/A
Harmonic Mean:	0.795784650547	N/A
Root Mean Square:	1.13949345002	2.34958275463
Trim Mean (10%%):	1.07823514618	0.724231230173
Interquartile Mean:	1.10170754006	0.365170577045
Midrange:	2.70828272201	8.575
Winsorized Mean:	1.07218388044	0.773808375635
TriMean:	1.10600574018	0.4065
Variance:	0.146667823841	4.34462433383
Standard Deviation:	0.382972353886	2.08437624575
Interquartile Range:	0.337226734277	0.726
Range:	5.35376417019	17.15
Mean Difference:	0.412850895778	1.54593418876
Median Abs. Deviation:	0.178045554224	0.24
Average Abs. Deviation:	0.274569247917	0.946058058376
Quartile Dispersion:	0.151629160415	N/A
Relative Mean Diff.:	0.384680492821	1.42478289243
Standard Error:	0.00682141261033	0.0371264146436
Coef. of Variation:	0.356840678647	1.92102848744
Skewness:	0.197584186766	3.69992117375
Kurtosis:	8.70921814687	19.5414026213
Sum:	3382.82301229	3420.019
Sum Absolute:	3382.82301229	3420.019
Sum Squares:	4092.69965699	17400.739309
Mean Square:	1.29844532265	5.52053912088

Complete Spatial Randomness

Lambda:	0.131048973442
Clark and Evans:	0.777033736153
Skellam:	3369.94929743

Gridding Rules

Gridding Method:	Kriging
Kriging Type:	Point

Polynomial Drift Order:	0
Kriging std. deviation grid:	no

Semi-Variogram Model

Component Type:	Linear
Anisotropy Angle:	0
Anisotropy Ratio:	1
Variogram Slope:	1

Search Parameters

Search Ellipse Radius #1:	110
Search Ellipse Radius #2:	110
Search Ellipse Angle:	0

Number of Search Sectors: 4
Maximum Data Per Sector: 16
Maximum Empty Sectors: 3

Minimum Data: 8
Maximum Data: 64

Output Grid

Grid File Name: C:\SZAKDOGA\surfer\koordsurfer2.grd
Grid Size: 100 rows x 89 columns
Total Nodes: 8900
Filled Nodes: 8900
Blanked Nodes: 0
Blank Value: 1.70141E+038

Grid Geometry

X Minimum: 614006.5
X Maximum: 614153
X Spacing: 1.6647727272727

Y Minimum: 212132.222
Y Maximum: 212296.4
Y Spacing: 1.6583636363635

Univariate Grid Statistics

Z	
Count:	8900
1%%-tile:	241.792518164
5%%-tile:	245.593881297
10%%-tile:	247.46389658
25%%-tile:	250.967165065
50%%-tile:	254.427452224
75%%-tile:	256.429119888
90%%-tile:	259.221407849
95%%-tile:	261.031537468
99%%-tile:	263.400255846
Minimum:	236.011982784
Maximum:	268.658005069
Mean:	253.728017219
Median:	254.427572856
Geometric Mean:	253.686516546
Harmonic Mean:	253.64477608
Root Mean Square:	253.769281785
Trim Mean (10%%):	253.818042605
Interquartile Mean:	254.154910677
Midrange:	252.334993927

Winsorized Mean:	253.771558047
TriMean:	254.06279735
Variance:	20.9440090508
Standard Deviation:	4.57646250403
Interquartile Range:	5.4619548238
Range:	32.6460222842
Mean Difference:	5.07392205143
Median Abs. Deviation:	2.58150826893
Average Abs. Deviation:	3.4904640164
Quartile Dispersion:	0.0107646724775
Relative Mean Diff.:	0.0199974843419
Standard Error:	0.048510405522
Coef. of Variation:	0.0180368827778
Skewness:	-0.428041993067
Kurtosis:	3.46831074135
Sum:	2258179.35325
Sum Absolute:	2258179.35325
Sum Squares:	573149750.561
Mean Square:	64398.8483776

Gridding Report

Thu May 22 22:52:38 2014

Elapsed time for gridding: 0.03 seconds

Data Source

Source Data File Name: C:\SZAKDOGA\surfer\Új mappa\koord_barac.txt
X Column: A
Y Column: B
Z Column: C

Data Counts

Active Data: 37

Original Data: 37
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 2.2E-006
Y Duplicate Tolerance: 1.7E-006

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Data Counts

Active Data: 37

Univariate Statistics

	X	Y	Z
Count:	37	37	37
1%%-tile:	614109.29	212204.49	245.355
5%%-tile:	614110.74	212206.95	245.355
10%%-tile:	614112.62	212209.45	245.606
25%%-tile:	614114.84	212212.53	246.386
50%%-tile:	614118.71	212213.14	247.591
75%%-tile:	614123.44	212214.18	248.644
90%%-tile:	614125.04	212216.03	249.258
95%%-tile:	614126.26	212217.03	249.518
99%%-tile:	614127.21	212217.61	249.709
Minimum:	614109.29	212204.49	245.355
Maximum:	614128.15	212219.2	249.9
Mean:	614118.831081	212213.119459	247.541972973
Median:	614118.71	212213.14	247.591
Geometric Mean:	614118.831061	212213.119442	247.538164297
Harmonic Mean:	614118.831041	212213.119425	247.534354897
Root Mean Square:	614118.831101	212213.119477	247.545780857
Trim Mean (10%%):	614118.591176	212213.062353	247.473205882
Interquartile Mean:	614118.566842	212213.195263	247.560736842
Midrange:	614118.72	212211.845	247.6275
Winsorized Mean:	614118.814054	212213.178378	247.523864865
TriMean:	614118.925	212213.2475	247.553
Variance:	25.0748154654	7.51260525525	1.93760441592
Standard Deviation:	5.00747595755	2.74091321556	1.39197859751
Interquartile Range:	8.59999999998	1.64999999999	2.258
Range:	18.86	14.71	4.545
Mean Difference:	5.82168168167	2.84375375375	1.62527927928
Median Abs. Deviation:	4.57999999996	0.679999999993	1.205
Average Abs. Deviation:	4.25351351351	1.74594594595	1.17167567568
Quartile Dispersion:	7.00189868694e-006	3.88759698935e-006	0.00456133971678
Relative Mean Diff.:	9.47973158782e-006	1.34004615784e-005	0.0065656715092
Standard Error:	0.823223976376	0.450603356931	0.228839871781
Coef. of Variation:	8.15392022539e-006	1.29158518688e-005	0.00562320232318
Skewness:	0.0911979306383	-0.762399398077	-0.0467356640111
Kurtosis:	1.87613185077	4.78879147071	1.72180040817
Sum:	22722396.75	7851885.42	9159.053
Sum Absolute:	22722396.75	7851885.42	9159.053
Sum Squares:	1.39542517324e+013	1.66627309889e+012	2267319.80394
Mean Square:	377141938713	45034408078	61278.9136201

Inter-Variable Covariance

	X	Y	Z
X:	25.074815	5.501695	6.1829095
Y:	5.501695	7.5126053	2.0222786
Z:	6.1829095	2.0222786	1.9376044

Inter-Variable Correlation

	X	Y	Z
X:	1.000	0.401	0.887
Y:	0.401	1.000	0.530
Z:	0.887	0.530	1.000

Inter-Variable Rank Correlation

	X	Y	Z
X:	1.000	0.651	0.881
Y:	0.651	1.000	0.630
Z:	0.881	0.630	1.000

Principal Component Analysis

	PC1	PC2	PC3
X:	-0.287741859473	-0.287741859473	-0.218896497308
Y:	0.956914138174	0.956914138174	-0.105343235796
Z:	0.0389865934686	0.0389865934686	-0.105343235796
Lambda:	28.2615934817	5.94064999928	0.322781655605

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.223414861816	0.105571653361	-159359.421698
Standard Error:	0.021886192784	0.0399846969054	12697.2586762

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.401	-0.791
B:	-0.401	1.000	-0.244
C:	-0.791	-0.244	1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	57.4145697891	28.7072848945	
	79.1014443388			
Residual:	34	12.3391891839	0.362917328937	
Total:	36	69.753758973		

Coefficient of Multiple Determination (R^2): 0.823103595196

Nearest Neighbor Statistics

	Separation	Delta Z
1%%-tile:	0.521536192409	0
5%%-tile:	0.521536192409	0
10%%-tile:	0.614654374398	0
25%%-tile:	0.940053190045	0.07
50%%-tile:	0.978008179988	0.205
75%%-tile:	1.14157785544	0.341
90%%-tile:	1.27412715221	0.342
95%%-tile:	1.49833240639	0.342
99%%-tile:	1.70299735766	0.342
Minimum:	0.521536192409	0
Maximum:	2.50449595729	0.404
Mean:	1.0386646612	0.195324324324
Median:	0.978008179988	0.205
Geometric Mean:	0.987487750605	N/A
Harmonic Mean:	0.940650194546	N/A
Root Mean Square:	1.09785047966	0.234870464587
Trim Mean (10%%):	0.991222439916	0.190617647059
Interquartile Mean:	0.988789356965	0.211421052632
Midrange:	1.51301607485	0.202
Winsorized Mean:	0.989236974765	0.193648648649
TriMean:	1.00941185137	0.20525

Variance:	0.129963936065	0.0174851141141
Standard Deviation:	0.360505112398	0.132231290223
Interquartile Range:	0.201524665397	0.271
Range:	1.98295976488	0.404
Mean Difference:	0.353907829478	0.150855855856
Median Abs. Deviation:	0.0445736616111	0.136
Average Abs. Deviation:	0.216859710588	0.108810810811
Quartile Dispersion:	0.0968109434348	N/A
Relative Mean Diff.:	0.340733484731	0.77233522439
Standard Error:	0.0592666753966	0.0217386902028
Coef. of Variation:	0.347085181448	0.676983221013
Skewness:	1.76444006274	-0.261713573261
Kurtosis:	8.28855821158	1.66631242761
Sum:	38.4305924645	7.227
Sum Absolute:	38.4305924645	7.227
Sum Squares:	44.5952000003	2.041073
Mean Square:	1.20527567568	0.0551641351351

Complete Spatial Randomness

Lambda:	0.13336668702
Clark and Evans:	0.758628288139
Skellam:	37.3693330882

Gridding Rules

Gridding Method:	Kriging
Kriging Type:	Point

Polynomial Drift Order:	0
Kriging std. deviation grid:	no

Semi-Variogram Model

Component Type:	Linear
Anisotropy Angle:	0
Anisotropy Ratio:	1
Variogram Slope:	1

Search Parameters

No Search (use all data):	true
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Output Grid

Grid File Name:	C:\SZAKDOGA\surfer\Új mappakkoord_barac2.grd
Grid Size:	78 rows x 100 columns
Total Nodes:	7800
Filled Nodes:	7800
Blanked Nodes:	0
Blank Value:	1.70141E+038

Grid Geometry

X Minimum:	614109.29
X Maximum:	614128.15
X Spacing:	0.19050505050491
Y Minimum:	212204.49
Y Maximum:	212219.2
Y Spacing:	0.19103896103923

Univariate Grid Statistics

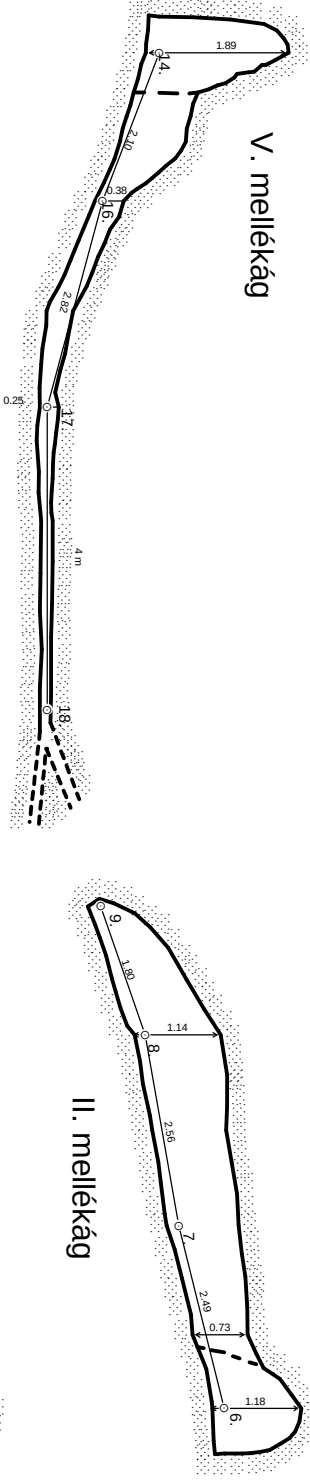
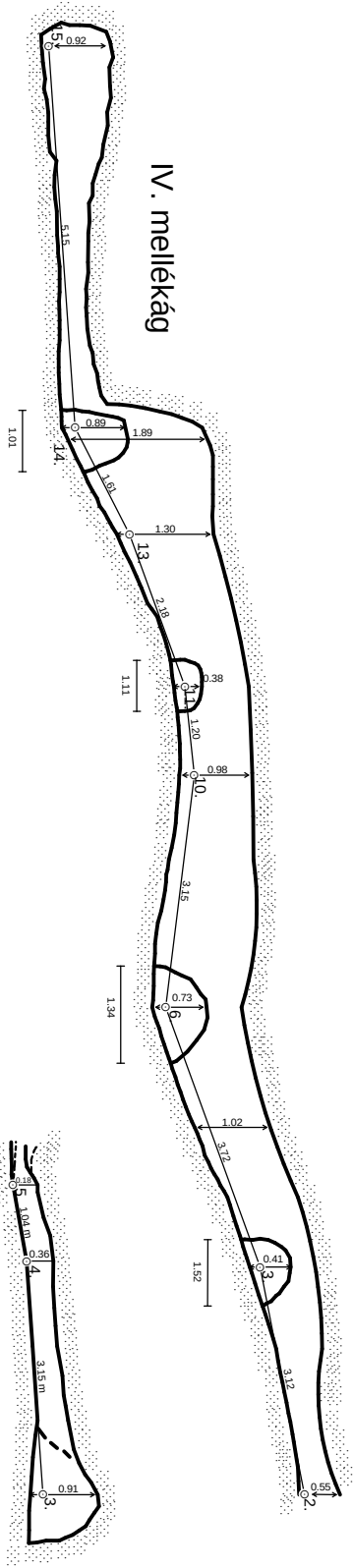
	Z
Count:	7800
1%%-tile:	244.953612283
5%%-tile:	245.07897668
10%%-tile:	245.28217607
25%%-tile:	246.201371116
50%%-tile:	247.258857528
75%%-tile:	248.255070918
90%%-tile:	249.151516699
95%%-tile:	249.466029314
99%%-tile:	249.741210255
Minimum:	244.906152798
Maximum:	249.898736217
Mean:	247.253705895
Median:	247.25899542
Geometric Mean:	247.250067216
Harmonic Mean:	247.2464284
Root Mean Square:	247.257344385
Trim Mean (10%%):	247.246366688
Interquartile Mean:	247.277998064
Midrange:	247.402444507
Winsorized Mean:	247.240770712
TriMean:	247.243539272
Variance:	1.79950410395
Standard Deviation:	1.34145596422
Interquartile Range:	2.05369980151
Range:	4.99258341919
Mean Difference:	1.54459106385
Median Abs. Deviation:	1.0206896656
Average Abs. Deviation:	1.12818487483
Quartile Dispersion:	0.00415344937778
Relative Mean Diff.:	0.00624698852646
Standard Error:	0.0151889978061
Coef. of Variation:	0.00542542308665
Skewness:	-0.00617651995386
Kurtosis:	2.01864907891

Sum:	1928578.90598
Sum Absolute:	1928578.90598
Sum Squares:	476862315.948
Mean Square:	61136.1943523

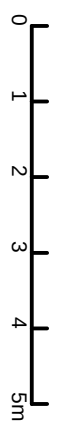
VELENCEI HEGYSÉG, PÁKOZD

Báracházi- barlang

Kiterített hosszmetset

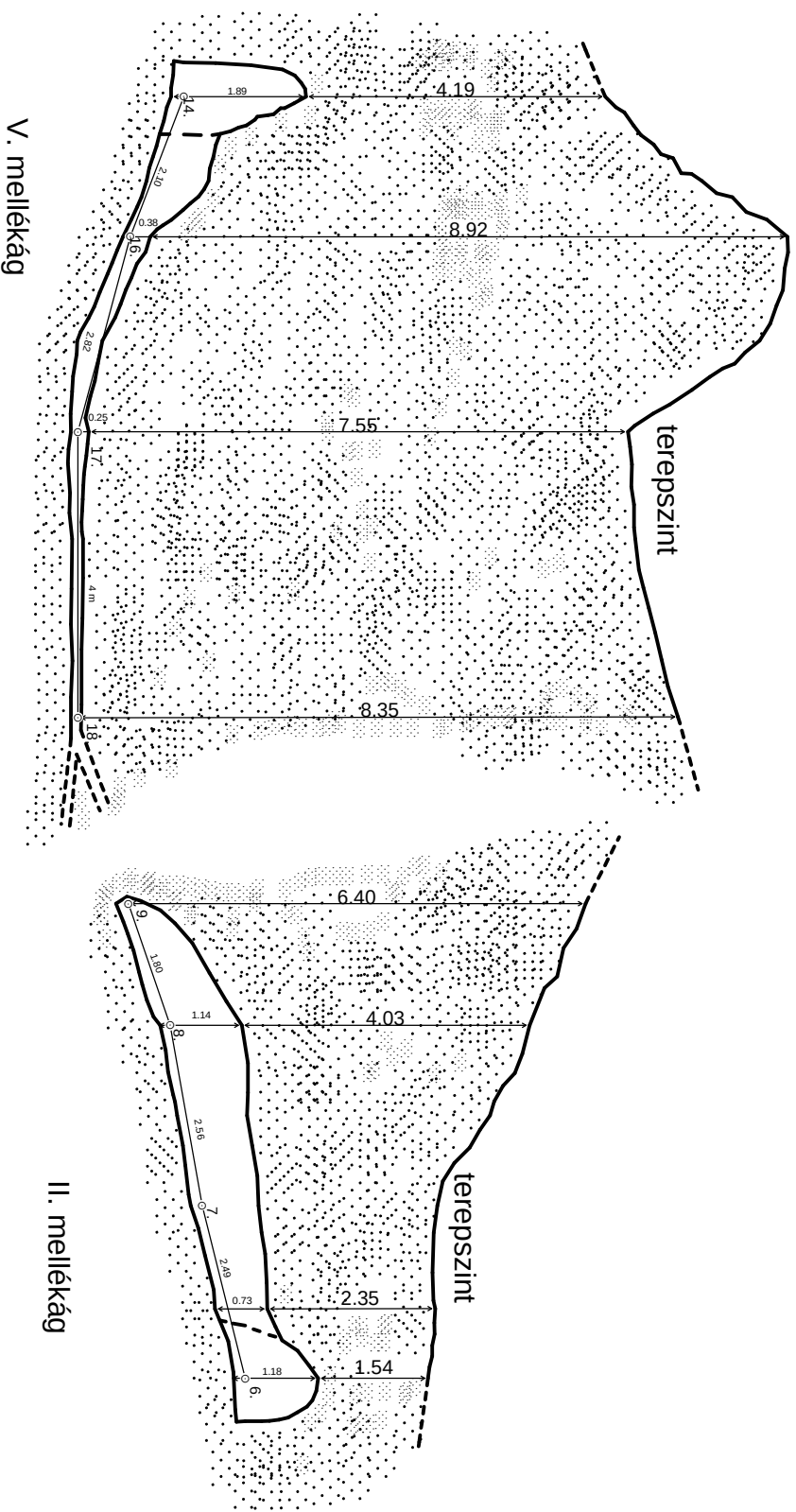


Bejárat: 614128.15, 212213.82, 249.90
M=1:100
Felmérte: Jantsky Béla Barlangtérképészeti és Barlangvédelmi Szakkör
Felmérésvezető: Dr. Tarsoly Péter
Segéddek: Bekk Tímea, Nagy Ádám, Halmai Tibor, Halász Miklós, Molnár Bálint, Haász Soma
2012.10.26.



A II. és az V. mellékág kiterített hosszsmetszete, a terepfelshn és a barlang egytttes  br zol s val

M=1:100





Munkaszám:

Székesfehérvár
Külterület

Mérési jegyzőkönyv

Szadolgozat 2014

Vetület: EOV

Magasság: Balti

Mérőeszköz típusa, száma:



www.geocalc.hu

GeoCalc 3.5 (2014.0213)

800013

Haász Adrián Soma

2014.03.24

Álláspont: 109 (műszermagasság = 1.400)

PsZ	Hz	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
3000	0.0005	85.3534	9.446		1.550			
3001	195.3617	96.1926	9.223		1.550			
3002	206.5526	93.1311	9.205		1.550			
3003	213.0644	89.1729	9.668		1.550			
3004	220.3647	86.2556	9.850		1.550			
3005	226.0105	83.5421	9.944		1.550			
3006	232.0245	81.0414	10.198		1.550			
3007	234.0103	79.0726	11.381		1.550			
3008	233.4738	78.3335	13.023		1.550			
3009	233.4542	77.5246	14.310		1.550			
3010	233.4719	77.2327	15.466		1.550			
3011	231.5659	78.0034	16.761		1.550			
3012	241.4244	76.5834	17.510		1.550			
3013	239.2745	76.5701	15.116		1.550			
3014	240.2949	76.0222	13.916		1.550			
3015	244.2450	74.5322	12.749		1.550			
3016	251.4846	74.1803	12.267		1.550			
3017	255.5259	73.5451	12.032		1.550			
3018	257.4952	73.3058	13.379		1.550			
3019	258.5018	73.3328	14.356		1.550			
3020	265.5928	72.4017	12.997		1.550			
3021	265.1925	73.5334	11.655		1.550			
3022	264.2523	74.4741	10.455		1.550			
3023	263.2945	75.1930	9.565		1.550			
3024	263.2817	75.5304	8.678		1.550			
3025	263.0210	77.1638	7.611		1.550			
3026	261.2744	79.0252	6.436		1.550			
3027	259.5229	81.1311	5.397		1.550			
3028	260.5051	83.4633	4.418		1.550			
3029	277.0745	82.0241	4.015		1.550			
3030	277.0745	79.3827	4.868		1.550			
3031	277.0955	78.0628	5.601		1.550			
3032	276.2912	77.4737	6.425		1.550			
3033	274.2707	77.1748	7.304		1.550			
3034	271.5706	75.4655	8.602		1.550			
3035	269.3112	75.2259	9.785		1.550			
3036	269.5943	75.1454	11.205		1.550			
3037	272.1137	76.2736	11.449		1.550			
3038	274.4814	77.3523	12.046		1.550			
3039	277.1512	79.0409	11.896		1.550			
3040	279.0752	80.0548	11.902		1.550			
3041	278.4927	80.2307	12.510		1.550			
3042	278.1048	80.3852	12.990		1.550			
3043	277.0942	80.3853	13.649		1.550			
3044	280.5701	81.1252	13.864		1.550			
3045	282.0325	80.4420	13.252		1.550			
3046	283.2150	80.2252	12.572		1.550			
3047	283.4649	80.2754	12.067		1.550			
3048	282.3628	81.4140	12.077		1.550			
3049	281.5453	82.5307	12.602		1.550			
3050	281.2715	83.3704	13.151		1.550			
3051	280.1745	84.3154	13.735		1.550			
3052	277.5622	84.1344	13.546		1.550			
3053	279.0304	83.1502	12.966		1.550			
3054	279.4238	82.3633	12.489		1.550			
3055	281.0817	81.3239	11.973		1.550			
3056	283.0008	79.2759	11.011		1.550			
3057	282.1403	80.3730	11.442		1.550			
3058	281.2344	81.4624	11.995		1.550			
3059	280.5319	83.0115	12.509		1.550			
3060	280.0753	83.4914	13.069		1.550			
3061	278.5957	84.1816	13.654		1.550			
3062	280.4202	79.1018	10.947		1.550			
3063	285.4445	79.3120	11.192		1.550			
3064	283.5537	80.1012	10.469		1.550			
3065	285.0648	81.0519	9.746		1.550			
3066	286.3326	81.2539	8.882		1.550			
3067	287.0501	81.4002	8.096		1.550			
3068	287.2525	81.3513	6.966		1.550			
3069	287.3511	81.0529	5.859		1.550			
3070	288.0714	81.1735	4.760		1.550			
3071	290.1449	84.0212	3.857		1.550			
3072	283.1133	79.3845	13.907		1.550			
3073	283.5802	79.2959	13.152		1.550			

3074	284.4152	79.2828	12.496	1.550
3075	277.1534	79.1115	12.123	1.550
3076	275.1626	78.1910	12.385	1.550
3077	276.1534	79.2006	13.263	1.550
3078	277.0239	80.2111	13.677	1.550
3079	278.1513	85.1142	14.150	1.550
3080	277.4754	82.1149	13.941	1.550
3081	277.2406	82.0025	13.933	1.550
3082	279.3441	82.2702	14.146	1.550
3083	0.0017	85.5321	7.213	1.550
3084	283.5337	70.4110	19.848	1.550

Álláspont: 3084 (műszermagasság = 1.460)

Psz	H _z	Z _i	T _f	T _v	M _j	Jelleg	T _{vet}	dM
4000	0.0000	99.4818	8.891		1.560			
4001	86.4307	116.2255	7.848		1.560			
4002	87.5457	116.0213	8.507		1.560			
4003	87.4126	115.3139	9.274		1.560			
4004	88.0524	113.0010	10.429		1.560			
4005	87.2815	113.2004	11.040		1.560			
4006	87.0430	113.3328	11.668		1.560			
4007	87.2700	113.4754	12.464		1.560			
4008	87.3845	113.1502	13.809		1.560			
4009	87.3650	112.1322	14.827		1.560			
4010	76.3135	114.0444	10.731		1.560			
4011	69.1322	114.2242	10.587		1.560			
4012	62.3808	113.0407	10.808		1.560			
4013	45.1531	108.3834	11.605		1.560			
4014	44.0454	107.5159	10.228		1.560			
4015	49.3705	109.4037	9.237		1.560			
4016	57.4313	112.1256	8.443		1.560			
4017	61.3759	112.5824	6.236		1.560			
4018	45.0504	110.1033	6.250		1.560			
4019	41.4958	108.4952	5.092		1.560			
4020	28.0238	108.3102	4.862		1.560			
4021	94.3634	115.3425	5.876		1.560			
4022	99.3243	114.2135	5.039		1.560			
4023	109.5406	112.1037	4.662		1.560			
4024	120.0307	111.0054	4.869		1.560			
4025	125.2850	109.4608	5.441		1.560			
4026	127.2130	109.3512	5.972		1.560			
4027	127.0953	109.4331	6.538		1.560			
4028	126.5800	109.3646	7.085		1.560			
4029	156.1536	94.5219	3.771		1.560			
4030	145.0543	101.1435	4.668		1.560			
4031	142.1138	103.5710	5.712		1.560			
4032	150.1932	102.2120	6.567		1.560			
4033	144.5830	104.4319	7.250		1.560			
4034	153.2732	103.5610	7.766		1.560			
4035	160.0242	103.2613	8.183		1.560			
4036	165.5637	101.0212	7.679		1.560			
4037	159.0050	101.1306	7.077		1.560			
4038	172.3143	98.2856	8.307		1.560			
4039	167.5853	101.3359	8.636		1.560			
4040	171.3206	101.3021	9.871		1.560			
4041	174.4522	100.5412	11.056		1.560			
4042	181.4140	97.5407	10.930		1.560			
4043	175.3657	99.3203	12.318		1.560			
4044	170.0646	101.1125	12.977		1.560			
4045	164.2538	101.3946	13.341		1.560			
4046	159.5941	102.2632	13.594		1.560			
4047	154.3023	103.2405	13.772		1.560			
4048	149.5108	104.0013	13.234		1.560			
4049	146.4023	104.4322	12.644		1.560			
4050	142.0658	105.4709	11.966		1.560			
4051	145.0320	107.2008	10.445		1.560			
4052	146.5715	106.4954	9.346		1.560			
4053	149.4954	105.2555	8.507		1.560			
4054	154.4729	106.0654	9.176		1.560			
4055	162.1431	105.1017	9.868		1.560			
4056	164.5410	104.1756	11.018		1.560			
4057	161.1626	104.1029	12.280		1.560			
4058	159.4411	105.5425	11.352		1.560			
4059	154.4241	107.1727	10.400		1.560			
4060	153.4259	106.5139	11.423		1.560			
4061	149.0544	107.2358	10.874		1.560			
4062	130.1741	109.5722	11.460		1.560			

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4063	129.1553	110.2333	13.130	1.560
4064	128.5500	110.4045	14.535	1.560
4065	132.5044	110.1846	16.261	1.560
4066	138.0111	108.0408	15.211	1.560
4067	141.5609	106.0943	14.139	1.560
4068	152.1948	104.4209	16.397	1.560
4069	157.4526	102.3258	16.350	1.560
4070	149.0724	106.1306	17.902	1.560
4071	146.1216	106.5819	19.299	1.560
4072	144.2250	108.0937	21.529	1.560
4073	0.0001	99.5824	8.738	1.560

Álláspont: 108 (műszermagasság = 1.510)

PsZ	HZ	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
5000	0.0000	85.4333	5.579		1.510			
5001	48.2431	87.4420	8.560		1.510			
5002	48.2945	87.1048	8.051		1.510			
5003	52.0527	86.5043	8.194		1.510			
5004	52.1527	87.0703	8.785		1.510			
5005	47.5915	87.1537	9.387		1.510			
5006	43.5850	87.1633	9.218		1.510			
5007	40.1114	85.5701	8.926		1.510			
5008	40.0339	85.3320	8.056		1.510			
5009	44.0708	84.5226	7.432		1.510			
5010	51.0038	84.3354	7.241		1.510			
5011	55.1719	84.2328	7.456		1.510			
5012	57.1831	84.4906	8.225		1.510			
5013	57.1723	84.4328	9.114		1.510			
5014	51.1421	84.5350	10.515		1.510			
5015	44.2701	84.1655	10.884		1.510			
5016	40.5840	83.2628	10.766		1.510			
5017	36.1726	82.3804	10.432		1.510			
5018	31.0521	81.5613	9.699		1.510			
5019	26.5803	80.3603	8.070		1.510			
5020	31.0702	79.5400	6.926		1.510			
5021	51.1035	77.5301	5.726		1.510			
5022	120.3109	92.2724	10.418		1.510			
5023	122.1051	93.5036	11.122		1.510			
5024	114.0751	94.1159	11.353		1.510			
5025	132.1453	95.4855	11.950		1.510			
5026	126.2247	96.0807	12.052		1.510			
5027	122.2121	96.1549	12.177		1.510			
5028	118.0556	96.5018	12.698		1.510			
5029	114.2646	96.5828	13.584		1.510			
5030	114.3101	96.4245	14.621		1.510			
5031	117.2911	96.5612	15.541		1.510			
5032	122.0656	96.5337	15.895		1.510			
5033	126.0554	96.5520	15.930		1.510			
5034	130.1822	96.3702	15.886		1.510			
5035	134.0628	96.4441	15.056		1.510			
5036	126.0305	98.0929	15.198		1.510			
5037	129.0220	98.2138	14.701		1.510			
5038	128.1427	98.5200	13.627		1.510			
5039	122.2840	99.1614	13.665		1.510			
5040	121.5837	98.4038	14.841		1.510			
5041	124.1523	99.3429	14.250		1.510			
5042	117.5648	97.5741	13.633		1.510			
5043	117.5721	98.0204	14.489		1.510			
5044	120.1600	98.2804	14.738		1.510			
5045	123.2020	98.5901	13.332		1.510			
5046	129.1837	98.1956	14.569		1.510			
5047	130.1122	98.2432	13.842		1.510			
5048	128.0739	98.2617	13.233		1.510			
5049	124.2457	96.5146	12.411		1.510			
5050	359.2421	85.4548	5.517		1.510			

Álláspont: 106 (műszermagasság = 1.320)

PsZ	HZ	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM
6000	0.0000	116.5020	5.363		1.520			
6001	349.3855	117.5820	8.635		1.520			
6002	345.4308	118.1005	7.659		1.520			
6003	339.1540	117.3047	6.663		1.520			
6004	329.4146	116.5054	5.751		1.520			
6005	319.3548	116.2754	5.148		1.520			

6006	304.1810	115.3928	4.447	1.520
6007	288.1549	114.4251	4.138	1.520
6008	292.3138	115.1230	2.718	1.520
6009	295.0553	92.4002	1.548	1.520
6010	330.5935	96.2728	1.790	1.520
6011	350.3934	104.1246	2.398	1.520
6012	353.5018	109.4719	3.330	1.520
6013	356.4147	116.0116	4.382	1.520
6014	354.5002	117.1311	5.571	1.520
6015	354.5959	117.1309	6.331	1.520
6016	354.1747	118.4536	7.012	1.520
6017	352.5826	118.5543	7.970	1.520
6018	344.3022	117.0038	8.565	1.520
6019	336.3014	114.3831	8.262	1.520
6020	329.5956	112.1907	7.906	1.520
6021	324.0718	109.5807	7.469	1.520
6022	318.0049	108.3711	7.008	1.520
6023	307.0734	103.5318	6.686	1.520
6024	301.1325	100.0400	6.616	1.520
6025	296.2259	97.0741	6.507	1.520
6026	289.3222	94.0439	6.570	1.520
6027	292.5805	104.0441	5.379	1.520
6028	301.0628	106.4341	5.585	1.520
6029	311.1917	109.0224	6.025	1.520
6030	322.4914	112.4548	6.537	1.520
6031	343.0833	117.4206	5.707	1.520
6032	338.4039	117.3040	4.565	1.520
6033	326.4252	117.4423	3.438	1.520
6034	245.4440	94.0426	1.603	1.520
6035	257.1339	109.5835	2.461	1.520
6036	261.2856	111.5507	4.313	1.520
6037	265.4712	103.1205	5.477	1.520
6038	267.3652	95.4552	6.234	1.520
6039	255.5238	99.5015	6.765	1.520
6040	252.1528	104.3255	6.157	1.520
6041	246.1618	110.1813	5.460	1.520
6042	235.1218	109.3227	4.677	1.520
6043	222.0108	101.5647	4.178	1.520
6044	215.2851	102.0752	6.176	1.520
6045	222.4604	106.0201	6.754	1.520
6046	229.5350	108.0515	7.372	1.520
6047	236.0448	103.4909	7.912	1.520
6048	240.1712	98.4234	8.474	1.520
6049	235.2228	100.0223	9.677	1.520
6050	230.5442	103.2424	9.164	1.520
6051	223.4647	106.2241	8.739	1.520
6052	217.2008	104.2746	8.367	1.520
6053	208.2511	102.0716	8.174	1.520
6054	206.3123	100.2410	10.110	1.520
6055	213.1510	103.1418	10.342	1.520
6056	219.0735	105.1920	10.753	1.520
6057	223.1007	103.2016	11.184	1.520
6058	225.2440	100.4100	12.190	1.520
6059	221.3333	101.1608	13.292	1.520
6060	219.1304	102.4026	13.060	1.520
6061	215.5800	104.2822	13.068	1.520
6062	211.3730	102.3008	12.597	1.520
6063	206.3650	99.3539	12.228	1.520
6064	203.0838	99.1327	13.466	1.520
6065	201.1606	98.4347	15.006	1.520
6066	200.5431	98.0248	16.427	1.520
6067	201.5045	98.0509	17.567	1.520
6068	202.3100	98.0700	18.609	1.520
6069	202.2926	98.4634	20.018	1.520
6070	202.3517	99.0122	21.152	1.520
6071	204.0108	99.4452	22.335	1.520
6072	206.0657	99.4616	23.065	1.520
6073	209.2109	99.3458	23.451	1.520
6074	211.3905	99.2905	23.615	1.520
6075	215.2234	99.1951	23.570	1.520
6076	219.2021	98.2301	22.821	1.520
6077	221.4528	97.3310	22.154	1.520
6078	224.2111	97.0335	21.011	1.520
6079	225.3338	96.3909	20.001	1.520
6080	229.2606	96.3708	18.386	1.520
6081	229.4036	96.3015	16.787	1.750
6082	229.2442	95.5815	14.580	2.250
6083	224.4220	97.0419	13.149	2.250
6084	211.5220	103.1945	13.279	1.520
6085	209.0722	103.1935	14.390	1.520

6086	207.1134	103.0148	15.614	1.520
6087	206.1319	102.4810	16.605	1.520
6088	206.0530	102.1454	18.156	1.520
6089	205.4837	101.3823	19.184	1.520
6090	206.1710	101.4329	20.490	1.520
6091	206.1702	101.1917	21.557	1.520
6092	208.1809	100.4500	22.316	1.700
6093	211.3234	100.2806	22.655	1.700
6094	215.3044	100.2019	22.198	1.700
6095	218.3557	100.1241	20.480	1.700
6096	219.3553	100.1856	19.418	1.700
6097	220.4956	100.2610	18.621	1.700
6098	221.4834	101.2129	17.742	1.700
6099	221.5101	102.5126	16.781	1.700
6100	220.0329	105.3951	15.044	1.800
6101	213.1952	104.3117	15.348	1.800
6102	211.1627	104.0744	15.656	1.800
6103	209.4552	103.5908	17.021	1.800
6104	209.0605	103.2102	18.427	1.800
6105	208.4230	102.2912	19.580	1.800
6106	211.2233	102.1539	20.786	1.800
6107	214.4630	101.3524	20.846	1.800
6108	215.2937	102.2747	19.537	1.800
6109	216.2637	103.1033	18.209	1.800
6110	216.4433	102.0637	16.949	2.400
6111	213.4727	102.2741	15.905	2.400
6112	213.0952	105.0242	17.129	1.800
6113	212.5505	105.0503	18.170	1.800
6114	212.2521	104.3019	19.134	1.800
6115	211.4508	104.2438	19.749	1.520
6116	195.1711	98.1732	27.447	1.850
6117	194.4301	98.1621	15.588	1.850
6118	194.0229	98.2228	17.432	1.850
6119	192.4343	98.1705	19.137	1.850
6120	190.4010	99.2143	19.924	1.850
6121	190.1812	100.3736	18.776	1.550
6122	190.1007	101.1207	17.404	1.550
6123	190.1913	101.3859	15.657	1.550
6124	191.0135	102.4854	13.347	1.550
6125	188.2508	102.3653	14.982	1.550
6126	189.0725	101.2620	17.681	1.550
6127	188.4710	100.5608	19.811	1.550
6128	0.4041	116.5420	6.759	1.550

Álláspont: 6116 (műszermagasság = 1.540)

PsZ	HZ	Zi	Tf	Tv	Mj	Jelleg	Tvet	dM

7000	0.0000	79.4059	5.535		2.020			
7001	4.0246	77.0341	7.462		1.850			
7002	9.5256	77.3620	10.778		1.850			
7003	345.4013	85.5112	15.758		1.850			
7004	339.0314	84.4017	15.021		1.850			
7005	337.3510	84.0322	15.118		1.850			
7006	334.3823	85.2854	14.515		1.850			
7007	332.2828	85.1444	13.319		1.850			
7008	353.5756	79.2555	6.601		1.850			
7009	6.2028	81.0938	5.539		1.850			
7010	5.3035	83.3900	4.638		1.850			
7011	350.5615	83.0755	5.289		1.850			
7012	18.5835	81.1721	5.896		1.850			
7013	21.4244	84.0945	4.959		1.850			
7014	25.3025	83.0224	6.211		1.850			
7015	40.3746	87.0737	5.779		1.850			
7016	232.0813	99.2829	4.589		1.850			
7017	220.5819	98.4245	4.692		1.850			
7018	217.4355	99.0655	5.406		1.850			
7019	221.1601	98.4126	6.450		1.850			
7020	227.3305	99.2639	6.683		1.850			
7021	233.1929	98.0832	6.683		1.850			
7022	239.3246	98.2225	6.128		1.850			
7023	228.5340	102.4826	6.076		1.850			
7024	236.5512	87.4514	2.823		1.850			
7025	263.0410	87.1611	5.292		1.850			
7026	255.2329	88.0502	7.499		1.850			
7027	240.3037	88.4513	8.553		1.850			
7028	223.2832	88.3852	8.732		1.850			
7029	212.1124	88.3444	8.545		1.850			
7030	201.4110	87.4014	7.163		1.850			

7031	200.1157	86.2633	4.899	1.850
7032	203.3653	84.4531	3.323	1.850
7033	359.5959	81.1847	5.603	1.850
7034	359.5959	81.1847	5.553	1.850