

Protokol z výpočtu a polohového vyrovnaní v programe PLS v2.1

(C) Maklo 1993-2000, v 2.1
GEO-KOD s.r.o.
VYROVNANIE POLOHOVEJ SIETE

MB=14 MSB=14 N=175 IZAC=0 IOS=0 IX=0 IY=0 NSTROJOV=2 XRED=0 YRED=0 PZR=1 M=0 MT1=28

5006	1242262.2945	263858.2667	44
5005	1242248.0896	263786.2093	45
5004	1242165.5296	263768.0017	39
5003	1242098.0206	263779.1665	64
5002	1242074.3344	263854.0055	37
5001	1242078.9380	263940.7881	33
5008	1242167.9466	263936.8023	50
5011	1242180.6412	263916.9039	21
5007	1242258.2112	263937.5998	24
8001	1242313.0545	263765.9942	6
8002	1242222.5066	263719.5030	10
8003	1242040.3033	263845.5229	12
8004	1242112.2071	263975.4906	15
8005	1242313.4300	263946.2832	9

odhad globálnej norm. smer. odchýlky..... k = 0.9

Počet neznámych parametrov..... k1 = 0.0

Počet všetkých meraní..... n = 0

Počet všetkých meraní..... n1 = 0

Počet všetkých meraní..... m = 175

Počet všetkých meraní..... m1 = 0

Počet všetkých meraní..... m2 = 175

Počet nadbytočných meraní..... (m1+m2)-(n1+n2) = 175

Suma vážených štvorcov oprav v'inv(-)v = 139.93

Suma vážených štvorcov oprav v'inv(-)v1 = 0.00

Suma vážených štvorcov oprav v'inv(-)v12 = 0.50

Suma vážených štvorcov oprav v'inv(-)v2 = 139.43

Počet bodov MB = 14

Počet pevných bodov MSB = 14

Hladina významnosti s koeficientom t(-) = 3

Hladina významnosti s pravdepodobnosťou..... = 100.00

odhad normovanej smerodajnej odchýlky.. k2 = $\sqrt{v'inv(-1)v2/(m2-n2)}$ = 0.9

Počet neznámych parametrov..... n = 0

Počet meraní..... m = 175

Počet nadbytočných meraní..... m-n = 175

Suma vážených štvorcov oprav v'inv(-)v2 = 139.43

Počet bodov MB = 14

Počet pevných bodov MSB = 14

Hladina významnosti s koeficientom t(-) = 3

Hladina významnosti s pravdepodobnosťou..... = 100.00

Meranie 2. etapy ovplyvňuje 1.etapu = ANO

Zoznam bodov - vyrovnané súradnice

BOD	X ^f , Y ^f [m]	m(.) [mm]	dx, dy [mm]	X ^Λ =X ^f +dx [m]	m(. ^Λ) [mm]	P(%)	poc.mer
#5006	+1242262.2945	1.0	X	+1242262.2944	0.9	7.513	44
	+263858.2667	1.1	Y	+263858.2666	1.0	7.480	
#5005	+1242248.0896	1.4	X	+1242248.0895	1.2	9.580	45
	+263786.2093	1.0	Y	+263786.2094	0.9	6.840	
#5004	+1242165.5296	1.6	X	+1242165.5296	1.4	2.519	39
	+263768.0017	1.0	Y	+263768.0017	0.9	0.175	
#5003	+1242098.0206	1.5	X	+1242098.0206	1.3	0.235	64
	+263779.1665	1.5	Y	+263779.1665	1.3	1.035	
#5002	+1242074.3344	1.0	X	+1242074.3344	0.9	1.204	37
	+263854.0055	1.7	Y	+263854.0054	1.5	4.825	
#5001	+1242078.9380	1.2	X	+1242078.9380	1.0	1.042	33
	+263940.7881	1.7	Y	+263940.7880	1.5	3.375	
#5008	+1242167.9466	1.0	X	+1242167.9466	0.9	4.307	50
	+263936.8023	1.1	Y	+263936.8021	0.9	16.126	
#5011	+1242180.6412	1.0	X	+1242180.6412	0.9	1.528	21
	+263916.9039	1.1	Y	+263916.9038	0.9	9.368	
#5007	+1242258.2112	1.1	X	+1242258.2111	1.0	8.520	24
	+263937.5998	1.1	Y	+263937.5997	1.0	10.348	
#8001	+1242313.0545	1.8	X	+1242313.0544	1.5	7.510	6
	+263765.9942	1.5	Y	+263765.9942	1.3	2.747	
#8002	+1242222.5066	2.0	X	+1242222.5064	1.7	6.888	10
	+263719.5030	1.2	Y	+263719.5031	0.9	7.345	
#8003	+1242040.3033	1.2	X	+1242040.3033	1.0	3.379	12
	+263845.5229	2.0	Y	+263845.5228	1.7	2.920	
#8004	+1242112.2071	1.4	X	+1242112.2071	1.2	0.149	15
	+263975.4906	1.4	Y	+263975.4905	1.2	3.859	
#8005	+1242313.4300	1.4	X	+1242313.4299	1.1	5.944	9
	+263946.2832	1.6	Y	+263946.2831	1.3	7.909	

Vyrovnané namerané hodnoty

Variančné koeficienty prístroja :

Vstup odhad(.^Λ)

a = +8.0 a^Λ = +7.2

i	Uzo1	pre Stroj->GV=ug	1	-(1)	1^	-(1^)	v=1-1^	-(v)
			[g c cc]	[c cc]	[g c cc]	[c cc]	[c cc]	[c cc]
1	5003	5008	5011	627314.7	5.1	627315.4	3.3	-0.7
2	5003	5008	5002	3726814.2	5.1	3726815.1	1.5	-0.9
3	5003	5008	5007	1271419.7	5.1	1271421.1	2.5	-1.4
4	5003	5008	5001	3237305.2	5.1	3237307.9	2.3	-2.7
5	5003	5008	5006	823856.5	5.1	823861.7	1.9	-5.2
6	5003	5008	5005	577145.2	5.1	577142.6	1.7	+2.6
7	5003	5008	8005	1307238.8	5.1	1307225.5	2.3	+13.3
8	5003	5008	8004	2879531.5	5.1	2879528.0	2.9	+3.5
9	5003	5008	8002	422386.0	5.1	422403.2	1.6	-17.2
10	5005	5003	5006	255836.0	5.1	255828.1	1.4	+7.9
11	5005	5003	5011	626177.5	5.1	626177.6	1.8	-0.1
12	5005	5003	5007	466631.0	5.1	466634.0	1.5	-3.0
13	5005	5003	5002	1165284.3	5.1	1165282.2	2.3	+2.1
14	5005	5003	5001	1044974.3	5.1	1044964.1	1.9	+10.2
15	5005	5003	5004	3865819.0	5.1	3865803.8	1.7	+15.2
16	5005	5003	5008	704360.7	5.1	704348.4	1.6	+12.3
17	5005	5003	8004	924224.8	5.1	924222.4	1.7	+2.4
18	5005	5003	8003	1425899.0	5.1	1425889.4	2.9	+9.6
19	5005	5003	8005	390196.0	5.1	390196.8	1.4	-0.8
20	5008	5005	5002	451825.5	5.1	451822.4	1.2	+3.1
21	5001	5005	5004	609540.8	5.1	609548.5	2.0	-7.7
22	5001	5005	5008	3782706.8	5.1	3782707.7	1.1	-0.9
23	5001	5005	5011	3774661.3	5.1	3774663.9	1.2	-2.6
24	5001	5005	5002	234527.0	5.1	234530.1	1.1	-3.1
25	5001	5005	8002	1238226.3	5.1	1238221.0	3.0	+5.3
26	5001	5005	8001	2279305.5	5.1	2279311.2	3.2	-5.7
27	5001	5005	8003	294332.0	5.1	294343.4	1.2	-11.4
28	5001	5005	8004	3867729.0	5.1	3867740.2	1.1	-11.2
29	5008	5006	5011	45442.5	5.1	45456.7	1.0	-14.2
30	5008	5006	5001	172693.5	5.1	172706.1	1.2	-12.6
31	5008	5006	5004	919812.7	5.1	919819.2	1.9	-6.5
32	5008	5006	5002	456359.2	5.1	456365.1	1.4	-5.9
33	5008	5006	5007	3474664.3	5.1	3474673.1	2.4	-8.8
34	5008	5006	5003	727607.2	5.1	727617.9	1.6	-10.7
35	5008	5006	8005	3106868.8	5.1	3106873.0	2.7	-4.2
36	5008	5006	8002	1264143.3	5.1	1264165.4	2.3	-22.1
37	5008	5006	8003	478439.5	5.1	478441.1	1.4	-1.6
38	5008	5006	8004	19798.5	5.1	19810.8	1.1	-12.3
39	5008	5006	8001	1762101.5	5.1	1762108.5	3.1	-7.0
40	5004	5007	5011	3484373.7	5.1	3484381.4	2.6	-7.7
41	5004	5007	8003	3572910.5	5.1	3572912.2	1.4	-1.7
42	5004	5007	5006	351128.0	5.1	351134.0	1.9	-6.0
43	5004	5007	8005	1417683.2	5.1	1417693.9	3.3	-10.7
44	5002	5001	5011	886889.8	5.1	886895.2	2.5	-5.4
45	5002	5001	8004	1547166.8	5.1	1547162.7	3.6	+4.1
46	5002	5001	5003	108563.5	5.1	108558.5	1.5	+5.0
47	5003	5002	5001	1771124.0	5.1	1771123.4	3.0	+0.6
48	5003	5002	8004	1612472.2	5.1	1612476.8	2.7	-4.6
49	5003	5002	5006	819295.2	5.1	819293.1	2.1	+2.1
50	5003	5002	5008	1265881.2	5.1	1265881.4	2.6	-0.2
51	5003	5002	8003	2960376.7	5.1	2960377.8	3.7	-1.1
52	5003	5004	5005	2242536.5	5.1	2242528.0	3.0	+8.5
53	5003	5004	8002	1655413.0	5.1	1655403.9	3.5	+9.1
54	5003	5004	5011	3039955.5	5.1	3039953.2	2.4	+2.3
55	5003	5004	5007	2785951.5	5.1	2785945.4	2.4	+6.1
56	5003	5004	8004	3264482.5	5.1	3264480.6	2.1	+1.9
57	5003	5004	5006	2582234.0	5.1	2582225.5	2.6	+8.5
58	5003	5004	8005	2663468.8	5.1	2663466.4	2.4	+2.4
59	5003	5004	8003	3751457.5	5.1	3751457.6	2.0	-0.1

Variančne koeficienty prístroja :

Vstup Odhad(Δ)
a = +2.0 aΔ = +1.8
b = +1.0 bΔ = +0.9

i	Uzo1	pre Stroj->GV=d	1	-(1)	1^	-(1^)	v=1-1^	-(v)
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
60	5008	5003	172.4499	1.9	172.4491	0.3	+0.8	1.9
61			172.4499	1.9			+0.8	
62	5003	5008	172.4493	1.9			+0.2	
63			172.4494	1.9			+0.3	
64	5008	5011	23.6009	1.8	23.6029	0.4	-2.0	1.8
65			23.6012	1.8			-1.7	
66	5008	5002	124.9743	1.9	124.9742	0.3	+0.1	1.9
67			124.9751	1.9			+0.9	
68	5002	5008	124.9725	1.9			-1.7	
69			124.9728	1.9			-1.4	
70	5008	5007	90.2691	1.9	90.2681	0.4	+1.0	1.8
71			90.2690	1.9			+0.9	
72	5008	5001	89.0963	1.9	89.0978	0.4	-1.5	1.8
73			89.0965	1.9			-1.3	
74	5008	5006	122.7571	1.9	122.7573	0.3	-0.2	1.9
75			122.7573	1.9			+0.0	
76	5006	5008	122.7570	1.9			-0.3	
77			122.7568	1.9			-0.5	
78	5008	5005	170.5907	1.9	170.5906	0.3	+0.1	1.9
79			170.5909	1.9			+0.3	
80	5005	5008	170.5896	1.9			-1.0	
81			170.5899	1.9			-0.7	
82			170.5899	1.9			-0.7	
83			170.5899	1.9			-0.7	
84	5008	8005	145.7933	1.9	145.7920	0.6	+1.3	1.8
85			145.7936	1.9			+1.6	

86	5003	5005	150.2357	1.9	150.2342	0.4	+1.5	1.9
87			150.2356	1.9			+1.4	
88	5003	5006	182.3262	2.0	182.3260	0.3	+0.2	1.9
89			182.3263	2.0			+0.3	
90	5006	5003	182.3262	2.0			+0.2	
91			182.3260	2.0			+0.0	
92	5003	5011	160.6173	1.9	160.6168	0.3	+0.5	1.9
93			160.6173	1.9			+0.5	
94	5003	5007	225.3039	2.0	225.3045	0.4	-0.6	2.0
95			225.3044	2.0			-0.1	
96	5003	5002	78.4977	1.9	78.4978	0.3	-0.1	1.8
97			78.4978	1.9			+0.0	
98	5002	5003	78.4977	1.9			-0.1	
99			78.4971	1.9			-0.7	
100	5003	5001	162.7442	1.9	162.7442	0.4	+0.0	1.9
101			162.7442	1.9			+0.0	
102	5001	5003	162.7438	1.9			-0.4	
103			162.7437	1.9			-0.5	
104	5003	5004	68.4249	1.8	68.4260	0.4	-1.1	1.8
105			68.4249	1.8			-1.1	
106	5004	5003	68.4246	1.8			-1.4	
107			68.4246	1.8			-1.4	
108	5003	8004	196.8348	2.0	196.8360	0.4	-1.2	1.9
109			196.8356	2.0			-0.4	
110	5003	8003	87.9458	1.9	87.9458	0.5	+0.0	1.8
111			87.9459	1.9			+0.1	
112	5005	5002	186.5146	2.0	186.5133	0.4	+1.3	1.9
113			186.5146	2.0			+1.3	
114			186.5139	2.0			+0.6	
115			186.5139	2.0			+0.6	
116	5005	5001	229.1451	2.0	229.1438	0.4	+1.3	2.0
117			229.1448	2.0			+1.0	
118	5005	5004	84.5449	1.9	84.5439	0.4	+1.0	1.8
119			84.5448	1.9			+0.9	
120	5004	5005	84.5438	1.9			-0.1	
121			84.5443	1.9			+0.4	
122	5005	5011	147.0727	1.9	147.0727	0.4	+0.0	1.9
123			147.0724	1.9			-0.3	
124	5005	8002	71.4481	1.9	71.4438	0.5	+4.3	1.8
125			71.4442	1.9			+0.4	
126	5005	8001	68.0371	1.8	68.0374	0.7	-0.3	1.7
127			68.0370	1.8			-0.4	
128	5006	5011	100.5265	1.9	100.5265	0.4	+0.0	1.8
129			100.5267	1.9			+0.2	
130	5006	5001	201.0691	2.0	201.0706	0.4	-1.5	1.9
131			201.0695	2.0			-1.1	
132	5006	5004	132.3284	1.9	132.3300	0.3	-1.6	1.9
133			132.3279	1.9			-2.1	
134	5004	5006	132.3289	1.9			-1.1	
135			132.3285	1.9			-1.5	
136	5006	5002	188.0082	2.0	188.0084	0.3	-0.2	1.9
137			188.0083	2.0			-0.1	
138	5002	5006	188.0082	2.0			-0.2	
139			188.0083	2.0			-0.1	
140	5006	5007	79.4367	1.9	79.4381	0.4	-1.4	1.8
141			79.4367	1.9			-1.4	
142	5007	5006	79.4370	1.9			-1.1	
143			79.4370	1.9			-1.1	
144	5006	8002	144.3536	1.9	144.3553	0.5	-1.7	1.9
145			144.3542	1.9			-1.1	
146	5006	8001	105.3118	1.9	105.3128	0.7	-1.0	1.8
147			105.3121	1.9			-0.7	
148	5007	5004	193.2683	2.0	193.2703	0.4	-2.0	1.9
149			193.2690	2.0			-1.3	
150	5004	5007	193.2693	2.0			-1.0	
151			193.2688	2.0			-1.5	
152	5007	5011	80.2827	1.9	80.2834	0.4	-0.7	1.8
153			80.2824	1.9			-1.0	
154	5007	8005	55.8970	1.8	55.8974	0.6	-0.4	1.7
155			55.8968	1.8			-0.6	
156	5001	5002	86.9030	1.9	86.9046	0.4	-1.6	1.8
157			86.9034	1.9			-1.2	
158	5002	5001	86.9043	1.9			-0.3	
159			86.9043	1.9			-0.3	
160	5001	5011	104.4707	1.9	104.4701	0.4	+0.6	1.8
161			104.4705	1.9			+0.4	
162	5001	8004	48.0739	1.8	48.0739	0.4	+0.0	1.8
163			48.0739	1.8			+0.0	
164	5002	8004	127.2516	1.9	127.2516	0.4	+0.0	1.9
165			127.2513	1.9			-0.3	
166	5002	8003	35.0710	1.8	35.0724	0.5	-1.4	1.8
167			35.0711	1.8			-1.3	
168	5004	8002	74.8219	1.9	74.8231	0.5	-1.2	1.8
169			74.8223	1.9			-0.8	
170	5004	5011	149.6667	1.9	149.6670	0.3	-0.3	1.9
171			149.6667	1.9			-0.3	
172	5004	8004	214.2316	2.0	214.2310	0.4	+0.6	1.9
173			214.2321	2.0			+1.1	
174	5004	8003	147.2796	1.9	147.2792	0.5	+0.4	1.8
175			147.2795	1.9			+0.3	

3 počet kritických meraní, podľa vzťahu $P\{ | \text{abs}(v) > t(1-\alpha/2) | - (v), \text{ kde } t(1-\alpha/2)=3 \} = 1-\alpha = 1.00$
 0 počet meraní, ktorým nebolo možné odhadnúť aposteriornu str. chybu opravy $-(v) = -(1) - (1\alpha)$, lebo $-(1\alpha) \geq -(1)$

P(1.22, 28,175)= 0.000 % pravdepodobnosť, že meranie 2.etapy signifikantne zmenilo súradnice bodov 1. etapy
 P(1.22, 28,175)= 0.000 % pravdepodobnosť, že meranie 2. etapy signifikantne zmenilo súradnice pripojovacích bodov 1. etapy

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VYROVNANIE VYSOK V POLOHOVEJ SIETI

Normovaná smerodajná odchýlka $k = \hat{u}(v'inv(-1))v/(m-n) = 9.79$
Počet neznámych parametrov $n = 5$
Počet meraní $m = 116$
Počet podmienok na regularizáciu systému .. $r = 0$
Počet stupňov voľnosti $m-n+r = 111$
Suma vážených štvorcov oprav $v'inv(-)v = 0.0106358297986$
Počet bodov $MB = 14$
Počet pevných bodov $MSB = 9$
Kvantil Studentovej náhodnej premeny $t(1--/2) = 3$
Pravdepodobnosť(hľadina významnosti) $P(1--) = 1.00$

Spôsob zadania váh $q = \text{výpočtom podľa var.koef. a,b,c}$

Zoznam bodov - vyrovnané výšky

BOD	Hř [m]	ěH [mm]	HΛ=Hř+ěH [m]	-(HΛ) [mm]	poc.mer
5006	+237.5583	.....	.....	0	28
5005	+237.4261	.....	.....	0	24
5004	+237.5772	.....	.....	0	24
5003	+237.9375	.....	.....	0	30
5002	+237.9119	.....	.....	0	24
5001	+237.9302	.....	.....	0	18
5008	+237.8219	.....	.....	0	26
5011	+238.0907	.....	.....	0	14
5007	+237.8311	.....	.....	0	16
8001	+239.2894	-13.81	+239.2756	1.41	4
8002	+240.6409	-15.78	+240.6251	1.18	6
8003	+240.3665	-14.83	+240.3517	1.01	6
8004	+241.0233	-15.02	+241.0083	1.12	8
8005	+239.8364	-18.19	+239.8182	1.39	4

Vyrovnané namerané hodnoty

Variačne koeficienty prístroja v tvare : $-(u)=a \Rightarrow -\dot{y}(u)=a\dot{y}$
Vstup $Odhad(.^{\wedge})$
 $a = +1000.00$ [mm] $-\wedge|a^{\wedge} = +9.79$

i	uzol	pre stroj->GV=h	l [m]	-(l) [mm]	lΛ [m]	-(lΛ) [mm]	v=l-lΛ [mm]	-(v) [mm]
1	5001	5002	-0.0217	2.89	-0.0183	0.00	-3.440	2.89
2			-0.0217	2.89			-3.440	2.89
3	5001	5003	+0.0021	3.95	+0.0073	0.00	-5.170	3.95
4			+0.0018	3.95			-5.470	3.95
5	5001	5011	+0.1567	3.16	+0.1605	0.00	-3.770	3.16
6			+0.1564	3.16			-4.070	3.16
7	5001	8004	+3.0774	2.14	+3.0781	1.12	-0.678	1.83
8			+3.0767	2.14			-1.378	1.83
9	5002	5001	+0.0137	2.89	+0.0183	0.00	-4.560	2.89
10			+0.0135	2.89			-4.760	2.89
11	5002	5003	+0.0217	2.75	+0.0255	0.00	-3.830	2.75
12			+0.0215	2.75			-4.030	2.75
13	5002	5006	-0.3596	4.24	-0.3537	0.00	-5.920	4.24
14			-0.3602	4.24			-6.520	4.24
15	5002	5008	-0.0942	3.46	-0.0900	0.00	-4.200	3.46
16			-0.0947	3.46			-4.700	3.46
17	5002	8003	+2.4378	1.83	+2.4397	1.01	-1.928	1.53
18			+2.4374	1.83			-2.328	1.53
19	5002	8004	+3.0975	3.49	+3.0963	1.12	+1.162	3.31
20			+3.0965	3.49			+0.162	3.31
21	5003	5001	-0.0044	3.95	-0.0073	0.00	+2.870	3.95
22			-0.0047	3.95			+2.570	3.95
23	5003	5002	-0.0217	2.75	-0.0255	0.00	+3.830	2.75
24			-0.0217	2.75			+3.830	2.75
25	5003	5004	-0.3554	2.55	-0.3602	0.00	+4.840	2.55
26			-0.3557	2.55			+4.540	2.55
27	5003	5005	-0.5099	3.79	-0.5114	0.00	+1.470	3.79
28			-0.5116	3.79			-0.230	3.79
29	5003	5006	-0.3763	4.18	-0.3792	0.00	+2.910	4.18
30			-0.3765	4.18			+2.710	4.18
31	5003	5007	-0.1043	4.64	-0.1063	0.00	+2.030	4.64
32			-0.1045	4.64			+1.830	4.64
33	5003	5008	-0.1120	4.06	-0.1155	0.00	+3.530	4.06
34			-0.1127	4.06			+2.830	4.06
35	5003	5011	+0.1569	3.93	+0.1532	0.00	+3.700	3.93
36			+0.1562	3.93			+3.000	3.93
37	5003	8003	+2.4203	2.90	+2.4142	1.01	+6.102	2.72
38			+2.4201	2.90			+5.902	2.72
39	5003	8004	+3.0746	4.34	+3.0708	1.12	+3.792	4.20
40			+3.0734	4.34			+2.592	4.20
41	5004	5003	+0.3591	2.55	+0.3602	0.00	-1.140	2.55
42			+0.3589	2.55			-1.340	2.55
43	5004	5005	-0.1524	2.85	-0.1511	0.00	-1.270	2.85
44			-0.1524	2.85			-1.270	2.85
45	5004	5006	-0.0212	3.56	-0.0190	0.00	-2.230	3.56
46			-0.0212	3.56			-2.230	3.56
47	5004	5007	+0.2497	4.30	+0.2539	0.00	-4.210	4.30
48			+0.2497	4.30			-4.210	4.30
49	5004	5011	+0.5104	3.79	+0.5134	0.00	-3.040	3.79
50			+0.5102	3.79			-3.240	3.79
51	5004	8002	+3.0479	2.68	+3.0479	1.18	+0.006	2.41

52			+3.0462	2.68				-1.694	2.41
53	5004	8003	+2.7735	3.75	+2.7744	1.01		-0.938	3.61
54			+2.7732	3.75				-1.238	3.61
55	5004	8004	+3.4339	4.53	+3.4310	1.12		+2.852	4.39
56			+3.4282	4.53				-2.848	4.39
57	5005	5001	+0.4989	4.68	+0.5041	0.00		-5.200	4.68
58			+0.4989	4.68				-5.200	4.68
59	5005	5002	+0.4819	4.23	+0.4858	0.00		-3.940	4.23
60			+0.4818	4.23				-4.040	4.23
61			+0.4816	4.23				-4.240	4.23
62			+0.4816	4.23				-4.240	4.23
63	5005	5004	+0.1504	2.85	+0.1511	0.00		-0.730	2.85
64			+0.1500	2.85				-1.130	2.85
65	5005	5008	+0.3945	4.05	+0.3958	0.00		-1.340	4.05
66			+0.3934	4.05				-2.440	4.05
67			+0.3929	4.05				-2.940	4.05
68			+0.3929	4.05				-2.940	4.05
69	5005	5011	+0.6622	3.75	+0.6646	0.00		-2.370	3.75
70			+0.6621	3.75				-2.470	3.75
71	5005	8001	+1.8503	2.55	+1.8495	1.41		+0.814	2.13
72			+1.8489	2.55				-0.586	2.13
73	5005	8002	+3.2005	2.61	+3.1990	1.18		+1.476	2.33
74			+3.1998	2.61				+0.776	2.33
75	5006	5001	+0.3680	4.39	+0.3719	0.00		-3.940	4.39
76			+0.3676	4.39				-4.340	4.39
77	5006	5002	+0.3504	4.24	+0.3537	0.00		-3.280	4.24
78			+0.3504	4.24				-3.280	4.24
79	5006	5003	+0.3705	4.18	+0.3792	0.00		-8.710	4.18
80			+0.3705	4.18				-8.710	4.18
81	5006	5004	+0.0179	3.56	+0.0190	0.00		-1.070	3.56
82			+0.0177	3.56				-1.270	3.56
83	5006	5007	+0.2724	2.75	+0.2729	0.00		-0.480	2.75
84			+0.2723	2.75				-0.580	2.75
85	5006	5008	+0.2626	3.43	+0.2637	0.00		-1.080	3.43
86			+0.2607	3.43				-2.980	3.43
87	5006	5011	+0.5311	3.11	+0.5324	0.00		-1.310	3.11
88			+0.5307	3.11				-1.710	3.11
89	5006	8001	+1.7189	3.17	+1.7173	1.41		+1.574	2.84
90			+1.7154	3.17				-1.926	2.84
91	5006	8002	+3.0673	3.71	+3.0669	1.18		+0.436	3.52
92			+3.0651	3.71				-1.764	3.52
93	5007	5004	-0.2571	4.30	-0.2539	0.00		-3.190	4.30
94			-0.2575	4.30				-3.590	4.30
95	5007	5006	-0.2746	2.75	-0.2729	0.00		-1.720	2.75
96			-0.2748	2.75				-1.920	2.75
97	5007	5011	+0.2569	2.77	+0.2595	0.00		-2.630	2.77
98			+0.2568	2.77				-2.730	2.77
99	5007	8005	+1.9903	2.32	+1.9871	1.39		+3.233	1.85
100			+1.9873	2.32				+0.233	1.85
101	5008	5001	+0.1062	2.92	+0.1083	0.00		-2.060	2.92
102			+0.1058	2.92				-2.460	2.92
103	5008	5002	+0.0873	3.46	+0.0900	0.00		-2.700	3.46
104			+0.0871	3.46				-2.900	3.46
105	5008	5003	+0.1071	4.06	+0.1155	0.00		-8.430	4.06
106			+0.1056	4.06				-9.930	4.06
107	5008	5005	-0.3998	4.05	-0.3958	0.00		-3.960	4.05
108			-0.3998	4.05				-3.960	4.05
109	5008	5006	-0.2660	3.43	-0.2637	0.00		-2.320	3.43
110			-0.2665	3.43				-2.820	3.43
111	5008	5007	+0.0073	2.94	+0.0092	0.00		-1.900	2.94
112			+0.0070	2.94				-2.200	2.94
113	5008	5011	+0.2683	1.52	+0.2687	0.00		-0.430	1.52
114			+0.2682	1.52				-0.530	1.52
115	5008	8005	+1.9922	3.74	+1.9963	1.39		-4.067	3.47
116			+1.9913	3.74				-4.967	3.47

l 0 počet kritických meraní, podľa vzťahu $P\{ \text{abs}(v) > t(1-\alpha/2) | -(v) \}$, kde $t(1-\alpha/2)=3$ } = $1-\alpha = 1.00$
r 0 počet meraní, ktorým nebolo možné odhadnúť aposteriornu str. chybu opravy $-(v) = -(1) - -(1^A)$, lebo $-(1^A) \geq -(1)$

Aposteriorná globálna kovariančná matica zoznamu bodov je uložená v súbore |.GKM

koniec výstupného protokolu.