```
Adjustment of local geodetic network        version: 1.7.09-svd / win32-msvc
***********************************
http://www.gnu.org/software/gama/


Network description
*******************
 pplanner


General parameters of the adjustment
************************************

Coordinates           xyz     xy       z

Adjusted       :       21       0       0
Constrained    * :     21       0       0
Fixed          :        2       0       0
-----------------------------------------
Total          :       23       0       0

Number of directions       :    39            Number of bearings:     9
Zenith angles              :    39
Slope distances            :    39
Total of observations      :   117

Number of project equations:   117            Number of unknowns:    72
Degrees of freedom         :    45            Network defect    :     0

m0  apriori    :     1.00
m0' aposteriori:     0.05         [pvv] : 1.07618e-001

During statistical analysis we work

- with apriori standard deviation 1.00
- with confidence level 95 %

Maximal normalized residual 0.18 does not exceed critical value 1.96
on significance level 5 % for observation #22
<z-angle from="4003.00" to="5001.00" val="103.8853" stdev="3.0" />


Fixed points
************

       point          x               y               z
=========================================================

     4002.00  1066259.991     848618.890        433.847
     4010.00  1067052.929     848296.136        471.482


Adjusted coordinates
********************

  i        point    approximate  correction  adjusted    std.dev conf.i.
====================== value ====== [m] ====== value ========== [mm] ===

         4001.00
  1            X * 1066215.20200   0.00002 1066215.20202     2.1     4.1
  2            Y *  848672.46300   0.00005  848672.46305     2.5     4.8
  3            Z *     427.40800  -0.00005     427.40795     0.4     0.9

         4003.00
```

5		X	*	1066281.11300	-0.00002	1066281.11298	1.2	2.3
6		Y	*	848508.29400	-0.00003	848508.29397	1.2	2.4
7		Z	*	438.71900	-0.00005	438.71895	0.3	0.5
	4004.00							
18		X	*	1066350.27100	0.00005	1066350.27105	2.1	4.0
19		Y	*	848422.52200	-0.00001	848422.52199	1.8	3.4
20		Z	*	445.32100	-0.00000	445.32100	0.4	0.8
	4005.00							
22		X	*	1066439.47100	0.00013	1066439.47113	2.7	5.3
23		Y	*	848331.19300	0.00002	848331.19302	2.2	4.3
24		Z	*	455.45000	-0.00004	455.44996	0.5	0.9
	4006.00							
32		X	*	1066546.56800	0.00012	1066546.56812	2.9	5.7
33		Y	*	848288.97100	0.00002	848288.97102	2.3	4.6
34		Z	*	464.95000	-0.00001	464.94999	0.5	1.0
	4007.00							
39		X	*	1066679.18000	0.00006	1066679.18006	3.0	5.8
40		Y	*	848226.50400	-0.00004	848226.50396	2.3	4.5
41		Z	*	474.14000	-0.00003	474.13997	0.5	1.0
	4008.00							
46		X	*	1066805.38100	0.00007	1066805.38107	2.6	5.0
47		Y	*	848278.64800	-0.00009	848278.64791	1.9	3.7
48		Z	*	473.97900	-0.00009	473.97891	0.5	0.9
	4009.00							
53		X	*	1066921.85000	0.00003	1066921.85003	2.1	4.1
54		Y	*	848308.69800	-0.00001	848308.69799	1.2	2.3
55		Z	*	472.26700	-0.00002	472.26698	0.4	0.8
	4011.00							
64		X	*	1067121.64800	0.00003	1067121.64803	2.1	4.1
65		Y	*	848184.07300	0.00006	848184.07306	2.9	5.6
66		Z	*	469.52000	0.00000	469.52000	0.6	1.2
	5001.00							
8		X	*	1066197.24100	-0.00008	1066197.24092	1.0	2.0
9		Y	*	848599.00000	-0.00004	848598.99996	0.8	1.5
10		Z	*	431.17000	0.00001	431.17001	0.3	0.6
	5002.00							
11		X	*	1066163.53700	0.00010	1066163.53710	1.7	3.3
12		Y	*	848515.02600	-0.00002	848515.02598	1.6	3.1
13		Z	*	435.79400	0.00000	435.79400	0.5	0.9
	5003.00							
14		X	*	1066237.57400	-0.00006	1066237.57394	1.8	3.5
15		Y	*	848458.79500	-0.00005	848458.79495	1.5	2.9
16		Z	*	440.92700	-0.00002	440.92698	0.4	0.7
	5004.00							
25		X	*	1066348.04600	0.00006	1066348.04606	3.1	6.1
26		Y	*	848261.25800	-0.00002	848261.25798	3.7	7.3
27		Z	*	459.81800	0.00005	459.81805	0.9	1.8
	5005.00							
28		X	*	1066407.41000	0.00009	1066407.41009	2.9	5.7
29		Y	*	848287.46600	0.00001	848287.46601	2.6	5.1
30		Z	*	456.54200	-0.00001	456.54199	0.5	1.0

	5006.00						
35		X	* 1066477.89200	0.00015	1066477.89215	2.8	5.6
36		Y	* 848270.25100	-0.00002	848270.25098	2.4	4.8
37		Z	* 461.95900	-0.00003	461.95897	0.5	1.0
	5007.00						
42		X	* 1066637.16300	0.00007	1066637.16307	2.8	5.5
43		Y	* 848288.20200	-0.00002	848288.20198	2.5	4.8
44		Z	* 470.04200	-0.00005	470.04195	0.5	1.1
	5008.00						
49		X	* 1066729.58600	-0.00000	1066729.58600	2.7	5.2
50		Y	* 848298.18400	-0.00009	848298.18391	2.3	4.5
51		Z	* 473.26300	-0.00003	473.26297	0.5	1.0
	5009.00						
56		X	* 1066854.75800	0.00013	1066854.75813	2.3	4.5
57		Y	* 848334.30500	-0.00007	848334.30493	1.7	3.4
58		Z	* 475.58700	-0.00003	475.58697	0.5	0.9
	5010.00						
60		X	* 1066945.09700	-0.00001	1066945.09699	2.7	5.3
61		Y	* 848348.77100	0.00000	848348.77100	2.9	5.6
62		Z	* 473.40500	-0.00001	473.40499	0.5	0.9
	5011.00						
67		X	* 1067072.57800	0.00000	1067072.57800	1.3	2.5
68		Y	* 848247.88000	0.00004	848247.88004	2.9	5.6
69		Z	* 472.21200	0.00001	472.21201	0.2	0.5
	5012.00						
70		X	* 1067156.09900	-0.00003	1067156.09897	3.2	6.3
71		Y	* 848284.29100	0.00003	848284.29103	1.2	2.4
72		Z	* 472.60700	-0.00006	472.60694	0.5	1.0

Adjusted orientation unknowns
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i	standpoint	approximate value [g]	correction [g]	adjusted value [g]	std.dev [cc]	conf.i.
4	4002.00	0.000010	-0.000006	0.000004	7.0	13.6
17	4003.00	0.000008	-0.000010	399.999998	5.8	11.4
21	4004.00	399.999968	0.000034	0.000002	4.9	9.6
31	4005.00	0.000011	-0.000006	0.000005	4.2	8.2
38	4006.00	0.000021	-0.000016	0.000005	3.8	7.4
45	4007.00	0.000030	-0.000020	0.000009	3.8	7.4
52	4008.00	0.000015	-0.000004	0.000011	4.2	8.2
59	4009.00	399.999981	0.000031	0.000012	5.2	10.1
63	4010.00	399.999996	0.000016	0.000013	6.4	12.6

Mean errors and parameters of error ellipses
****

point	mp [mm]	mxy [mm]	mean error ellipse a [mm]	b	alpha[g]	conf.err. ellipse a' [mm]	b'	g
4001.00	3.2	2.3	3.1	0.8	144.3	7.7	2.0	0.0
4003.00	1.7	1.2	1.3	1.1	141.7	3.2	2.6	0.0
4004.00	2.7	1.9	2.1	1.7	177.4	5.1	4.2	0.0
4005.00	3.5	2.4	2.7	2.2	193.0	6.6	5.3	0.0
4006.00	3.7	2.6	2.9	2.3	4.8	7.1	5.7	0.0

4007.00	3.7	2.7	3.0	2.3	11.4	7.3	5.6	0.0
4008.00	3.2	2.3	2.6	1.9	11.4	6.3	4.6	0.0
4009.00	2.4	1.7	2.1	1.2	199.1	5.2	2.9	0.0
4011.00	3.6	2.5	3.3	1.5	135.0	8.0	3.6	0.0
5001.00	1.3	0.9	1.0	0.8	7.8	2.4	1.9	0.0
5002.00	2.3	1.6	1.7	1.5	170.7	4.1	3.8	0.0
5003.00	2.3	1.6	1.8	1.5	190.4	4.4	3.6	0.0
5004.00	4.9	3.4	3.7	3.1	96.7	9.2	7.6	0.0
5005.00	3.9	2.7	2.9	2.6	18.2	7.1	6.3	0.0
5006.00	3.8	2.7	2.9	2.4	14.2	7.0	5.9	0.0
5007.00	3.7	2.6	2.9	2.4	24.5	7.1	5.8	0.0
5008.00	3.5	2.5	2.7	2.3	7.9	6.5	5.6	0.0
5009.00	2.9	2.0	2.3	1.7	1.4	5.6	4.3	0.0
5010.00	3.9	2.8	3.5	1.8	53.7	8.5	4.5	0.0
5011.00	3.2	2.2	3.1	0.6	124.6	7.6	1.4	0.0
5012.00	3.4	2.4	3.2	1.2	192.7	7.9	2.8	0.0

Maximal mean position error is 4.9 mm on point 5004.00
Average mean position error is 3.2 mm

Adjusted observations
****

i	standpoint	target	observed value	adjusted [m|g]	std.dev [mm|cc]	conf.i. ==
1	4002.00	4001.00 zenit	105.853800	105.853800	3.0	5.9
2		4001.00 dir.	144.329800	144.329800	3.0	5.9
3		4001.00 slope	70.12550	70.12550	3.1	6.2
4		4003.00 zenit	97.247100	97.247080	1.6	3.0
5		4003.00 dir.	312.013700	312.013694	2.6	5.0
6		4003.00 slope	112.70030	112.70029	1.3	2.5
7		5001.00 zenit	102.587500	102.587524	2.7	5.3
8		5001.00 dir.	219.541300	219.541301	3.0	5.8
9		5001.00 slope	65.88130	65.88135	1.0	1.9
10		5002.00 zenit	99.125600	99.125585	2.1	4.0
11		5002.00 dir.	252.353900	252.353895	2.9	5.7
12		5002.00 slope	141.75650	141.75641	1.5	3.0
13		5003.00 zenit	97.213600	97.213619	1.4	2.7
14		5003.00 dir.	291.143400	291.143410	2.4	4.8
15		5003.00 slope	161.81180	161.81185	1.5	2.9
16	4003.00	4002.00 zenit	102.752900	102.752920	1.6	3.0
17		4002.00 dir.	112.013700	112.013700	2.9	5.7
18		4002.00 slope	112.70030	112.70029	1.3	2.5
19		4004.00 zenit	96.189900	96.189902	1.7	3.4
20		4004.00 dir.	343.199200	343.199201	3.0	5.8
21		4004.00 slope	110.37780	110.37779	1.5	3.0
22		5001.00 zenit	103.885300	103.885256	1.8	3.5
23		5001.00 dir.	147.509200	147.509200	2.9	5.8
24		5001.00 slope	123.77030	123.77029	1.3	2.6
25		5002.00 zenit	101.580800	101.580813	2.4	4.7
26		5002.00 dir.	196.358900	196.358904	2.9	5.8
27		5002.00 slope	117.80490	117.80477	1.4	2.7
28		5003.00 zenit	97.868500	97.868491	2.6	5.0
29		5003.00 dir.	254.072600	254.072596	2.9	5.7
30		5003.00 slope	65.95960	65.95966	1.0	2.0
31	4004.00	4003.00 zenit	103.810100	103.810098	1.7	3.4
32		4003.00 dir.	143.199200	143.199196	2.8	5.6
33		4003.00 slope	110.37780	110.37779	1.5	3.0
34		4005.00 zenit	94.959500	94.959499	1.7	3.3
35		4005.00 dir.	349.249300	349.249301	2.9	5.6
36		4005.00 slope	128.06340	128.06339	1.7	3.3
37		5003.00 zenit	102.361700	102.361701	1.9	3.7

38		5003.00	dir.	180.176200	180.176202	2.9	5.6
39		5003.00	slope	118.47220	118.47224	1.6	3.1
40		5004.00	zenit	94.292900	94.292900	3.0	5.9
41		5004.00	dir.	299.121700	299.121700	3.0	5.9
42		5004.00	slope	161.92960	161.92960	3.3	6.5
43		5005.00	zenit	95.138200	95.138206	1.7	3.3
44		5005.00	dir.	325.480100	325.480100	2.9	5.7
45		5005.00	slope	147.07450	147.07447	1.9	3.8
46	4005.00	4004.00	zenit	105.040500	105.040501	1.7	3.3
47		4004.00	dir.	149.249300	149.249298	2.9	5.8
48		4004.00	slope	128.06340	128.06339	1.7	3.3
49		4006.00	zenit	94.758300	94.758278	1.6	3.1
50		4006.00	dir.	376.092900	376.092902	2.9	5.7
51		4006.00	slope	115.51070	115.51066	1.8	3.5
52		5005.00	zenit	98.718000	98.717998	2.9	5.6
53		5005.00	dir.	259.723100	259.723100	3.0	5.9
54		5005.00	slope	54.23240	54.23241	1.2	2.3
55		5006.00	zenit	94.263700	94.263729	2.5	4.8
56		5006.00	dir.	335.810500	335.810500	3.0	5.8
57		5006.00	slope	72.33580	72.33585	1.2	2.4
58	4006.00	4005.00	zenit	105.241700	105.241722	1.6	3.1
59		4005.00	dir.	176.092900	176.092901	2.9	5.7
60		4005.00	slope	115.51070	115.51066	1.8	3.5
61		4007.00	zenit	96.014100	96.014086	1.5	2.9
62		4007.00	dir.	371.974600	371.974603	2.9	5.7
63		4007.00	slope	146.87590	146.87586	1.9	3.7
64		5006.00	zenit	102.673500	102.673472	2.5	4.9
65		5006.00	dir.	216.941700	216.941697	3.0	5.8
66		5006.00	slope	71.24450	71.24447	1.2	2.4
67		5007.00	zenit	96.425700	96.425720	2.4	4.7
68		5007.00	dir.	399.459600	399.459599	3.0	5.8
69		5007.00	slope	90.74120	90.74119	1.3	2.6
70	4007.00	4006.00	zenit	103.985900	103.985914	1.5	2.9
71		4006.00	dir.	171.974600	171.974598	2.9	5.7
72		4006.00	slope	146.87590	146.87586	1.9	3.7
73		4008.00	zenit	100.075100	100.075089	1.5	3.0
74		4008.00	dir.	24.943900	24.943903	2.9	5.7
75		4008.00	slope	136.54930	136.54930	1.9	3.7
76		5007.00	zenit	103.491500	103.491484	2.6	5.1
77		5007.00	dir.	138.061400	138.061400	3.0	5.8
78		5007.00	slope	74.75870	74.75873	1.2	2.4
79		5008.00	zenit	100.637100	100.637116	2.4	4.7
80		5008.00	dir.	60.983100	60.983099	3.0	5.8
81		5008.00	slope	87.63310	87.63300	1.3	2.6
82	4008.00	4007.00	zenit	99.924900	99.924911	1.5	3.0
83		4007.00	dir.	224.943900	224.943901	3.0	5.8
84		4007.00	slope	136.54930	136.54930	1.9	3.7
85		4009.00	zenit	100.906000	100.906008	1.6	3.1
86		4009.00	dir.	16.074800	16.074800	3.0	5.8
87		4009.00	slope	120.29530	120.29529	1.9	3.6
88		5008.00	zenit	100.582300	100.582286	2.5	5.0
89		5008.00	dir.	183.940800	183.940798	3.0	5.8
90		5008.00	slope	78.27550	78.27554	1.2	2.4
91		5009.00	zenit	98.624300	98.624291	2.5	4.8
92		5009.00	dir.	53.801800	53.801800	3.0	5.8
93		5009.00	slope	74.42030	74.42032	1.3	2.5
94	4009.00	4008.00	zenit	99.094000	99.093992	1.6	3.1
95		4008.00	dir.	216.074800	216.074800	3.0	5.8
96		4008.00	slope	120.29530	120.29529	1.9	3.6
97		4010.00	zenit	100.379500	100.379501	1.9	3.7
98		4010.00	dir.	393.917500	393.917500	3.0	5.9
99		4010.00	slope	131.68190	131.68187	2.1	4.1
100		5009.00	zenit	97.058900	97.058909	2.5	4.9
101		5009.00	dir.	176.788500	176.788500	3.0	5.8

102		5009.00	slope	71.88930	71.88923	1.2	2.4
103		5010.00	zenit	98.436500	98.436500	3.0	5.9
104		5010.00	dir.	66.534800	66.534800	3.0	5.9
105		5010.00	slope	46.34180	46.34180	3.1	6.1
106	4010.00	4009.00	zenit	99.620500	99.620499	1.9	3.7
107		4009.00	dir.	193.917500	193.917500	3.0	5.9
108		4009.00	slope	131.68190	131.68187	2.1	4.1
109		4011.00	zenit	100.950100	100.950100	3.0	5.9
110		4011.00	dir.	335.019300	335.019300	3.0	5.9
111		4011.00	slope	131.46960	131.46960	3.3	6.4
112		5011.00	zenit	99.108100	99.108100	3.0	5.9
113		5011.00	dir.	324.617000	324.617000	3.0	5.9
114		5011.00	slope	52.10810	52.10810	3.1	6.1
115		5012.00	zenit	99.310400	99.310400	3.0	5.9
116		5012.00	dir.	392.722800	392.722800	3.0	5.9
117		5012.00	slope	103.85380	103.85380	3.2	6.3

Residuals and analysis of observations

i	standpoint	target		f[%]	v [mm|cc]	|v'|		e-obs. [mm|cc]	e-adj.
1	4002.00	4001.00	zenit	0.0 u	0.000				
2		4001.00	dir.	0.0 u	0.000				
3		4001.00	slope	0.0 u	0.000				
4		4003.00	zenit	48.2	-0.197	0.1		-0.3	-0.1
5		4003.00	dir.	14.7	-0.064	0.0		-0.2	-0.2
6		4003.00	slope	60.5	-0.009	0.0		-0.0	-0.0
7		5001.00	zenit	9.6	0.236	0.2		1.3	1.1
8		5001.00	dir.	0.5 w	0.013	0.0			
9		5001.00	slope	68.3	0.049	0.0		0.1	0.0
10		5002.00	zenit	31.5	-0.151	0.1		-0.3	-0.1
11		5002.00	dir.	3.3 w	-0.052	0.1			
12		5002.00	slope	52.9	-0.085	0.0		-0.1	-0.0
13		5003.00	zenit	53.6	0.193	0.1		0.2	0.1
14		5003.00	dir.	18.4	0.103	0.1		0.3	0.2
15		5003.00	slope	56.2	0.051	0.0		0.1	0.0
16	4003.00	4002.00	zenit	48.2	0.197	0.1		0.3	0.1
17		4002.00	dir.	3.5 w	-0.005	0.0			
18		4002.00	slope	60.5	-0.009	0.0		-0.0	-0.0
19		4004.00	zenit	41.9	0.019	0.0		0.0	0.0
20		4004.00	dir.	0.9 w	0.009	0.0			
21		4004.00	slope	52.6	-0.006	0.0		-0.0	-0.0
22		5001.00	zenit	40.3	-0.443	0.2	m	-0.7	-0.2
23		5001.00	dir.	2.1 w	-0.002	0.0			
24		5001.00	slope	59.6	-0.005	0.0		-0.0	-0.0
25		5002.00	zenit	20.4	0.126	0.1		0.3	0.2
26		5002.00	dir.	2.2 w	0.039	0.1			
27		5002.00	slope	57.6	-0.131	0.0		-0.2	-0.0
28		5003.00	zenit	14.3	-0.086	0.1		-0.3	-0.2
29		5003.00	dir.	2.9 w	-0.042	0.1			
30		5003.00	slope	68.0	0.058	0.0		0.1	0.0
31	4004.00	4003.00	zenit	41.9	-0.019	0.0		-0.0	-0.0
32		4003.00	dir.	5.4	-0.036	0.0		-0.3	-0.3
33		4003.00	slope	52.6	-0.006	0.0		-0.0	-0.0
34		4005.00	zenit	43.1	-0.015	0.0		-0.0	-0.0
35		4005.00	dir.	4.1 w	0.011	0.0			
36		4005.00	slope	48.5	-0.015	0.0		-0.0	-0.0
37		5003.00	zenit	37.4	0.015	0.0		0.0	0.0
38		5003.00	dir.	4.0 w	0.025	0.0			
39		5003.00	slope	51.6	0.044	0.0		0.1	0.0
40		5004.00	zenit	0.0 u	0.000				

41		5004.00	dir.	0.0	u	-0.000			
42		5004.00	slope	0.0	u	-0.000			
43		5005.00	zenit	44.3		0.064	0.0	0.1	0.0
44		5005.00	dir.	2.9	w	0.000	0.0		
45		5005.00	slope	40.9		-0.035	0.0	-0.1	-0.0
46	4005.00	4004.00	zenit	43.1		0.015	0.0	0.0	0.0
47		4004.00	dir.	2.1	w	-0.015	0.0		
48		4004.00	slope	48.5		-0.015	0.0	-0.0	-0.0
49		4006.00	zenit	47.4		-0.219	0.1	-0.3	-0.1
50		4006.00	dir.	2.3	w	0.015	0.0		
51		4006.00	slope	44.7		-0.039	0.0	-0.1	-0.0
52		5005.00	zenit	4.8	w	-0.024	0.0		
53		5005.00	dir.	0.3	w	0.001	0.0		
54		5005.00	slope	61.6		0.011	0.0	0.0	0.0
55		5006.00	zenit	17.9		0.289	0.2	0.9	0.6
56		5006.00	dir.	0.6	w	-0.000	0.0		
57		5006.00	slope	60.8		0.048	0.0	0.1	0.0
58	4006.00	4005.00	zenit	47.4		0.219	0.1	0.3	0.1
59		4005.00	dir.	2.4	w	0.015	0.0		
60		4005.00	slope	44.7		-0.039	0.0	-0.1	-0.0
61		4007.00	zenit	50.7		-0.144	0.1	-0.2	-0.0
62		4007.00	dir.	3.0	w	0.026	0.0		
63		4007.00	slope	43.2		-0.041	0.0	-0.1	-0.0
64		5006.00	zenit	17.2		-0.284	0.2	-0.9	-0.6
65		5006.00	dir.	0.7	w	-0.029	0.1		
66		5006.00	slope	61.2		-0.032	0.0	-0.0	-0.0
67		5007.00	zenit	20.6		0.196	0.1	0.5	0.3
68		5007.00	dir.	1.6	w	-0.011	0.0		
69		5007.00	slope	58.1		-0.005	0.0	-0.0	-0.0
70	4007.00	4006.00	zenit	50.7		0.144	0.1	0.2	0.0
71		4006.00	dir.	2.5	w	-0.017	0.0		
72		4006.00	slope	43.2		-0.041	0.0	-0.1	-0.0
73		4008.00	zenit	48.9		-0.110	0.0	-0.1	-0.0
74		4008.00	dir.	2.4	w	0.028	0.0		
75		4008.00	slope	41.9		0.000	0.0	0.0	0.0
76		5007.00	zenit	13.4		-0.162	0.1	-0.6	-0.5
77		5007.00	dir.	1.1	w	0.002	0.0		
78		5007.00	slope	61.6		0.034	0.0	0.0	0.0
79		5008.00	zenit	20.0		0.159	0.1	0.4	0.3
80		5008.00	dir.	1.0	w	-0.012	0.0		
81		5008.00	slope	58.0		-0.098	0.0	-0.1	-0.0
82	4008.00	4007.00	zenit	48.9		0.110	0.0	0.1	0.0
83		4007.00	dir.	1.2	w	0.007	0.0		
84		4007.00	slope	41.9		0.000	0.0	0.0	0.0
85		4009.00	zenit	48.0		0.085	0.0	0.1	0.0
86		4009.00	dir.	1.2	w	0.005	0.0		
87		4009.00	slope	42.6		-0.007	0.0	-0.0	-0.0
88		5008.00	zenit	15.6		-0.142	0.1	-0.5	-0.4
89		5008.00	dir.	0.8	w	-0.015	0.0		
90		5008.00	slope	61.0		0.043	0.0	0.1	0.0
91		5009.00	zenit	18.0		-0.089	0.1	-0.3	-0.2
92		5009.00	dir.	0.8	w	0.004	0.0		
93		5009.00	slope	60.1		0.023	0.0	0.0	0.0
94	4009.00	4008.00	zenit	48.0		-0.085	0.0	-0.1	-0.0
95		4008.00	dir.	0.7	w	-0.004	0.0		
96		4008.00	slope	42.6		-0.007	0.0	-0.0	-0.0
97		4010.00	zenit	36.5		0.014	0.0	0.0	0.0
98		4010.00	dir.	0.1	u	0.003			
99		4010.00	slope	35.5		-0.026	0.0	-0.0	-0.0
100		5009.00	zenit	16.7		0.086	0.1	0.3	0.2
101		5009.00	dir.	0.7	w	0.002	0.0		
102		5009.00	slope	61.2		-0.068	0.0	-0.1	-0.0
103		5010.00	zenit	0.0	u	0.000			
104		5010.00	dir.	0.0	u	0.000			

105		5010.00	slope	0.0	u	0.000			
106	4010.00	4009.00	zenit	36.5		-0.014	0.0	-0.0	-0.0
107		4009.00	dir.	0.0	u	0.000			
108		4009.00	slope	35.5		-0.026	0.0	-0.0	-0.0
109		4011.00	zenit	0.0	u	0.000			
110		4011.00	dir.	0.0	u	-0.000			
111		4011.00	slope	0.0	u	0.000			
112		5011.00	zenit	0.0	u	-0.000			
113		5011.00	dir.	0.0	u	-0.000			
114		5011.00	slope	0.0	u	0.000			
115		5012.00	zenit	0.0	u	0.000			
116		5012.00	dir.	0.0	u	0.000			
117		5012.00	slope	0.0	u	0.000			

Test of normality of homogenised residuals
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Test Kolmogorov-Smirnov : 0.0 %

Condition number : 1.0e+002