



ЕКОИНЖЕНЕРИНГ ЕООД

Експертна и консултантска дейност в областта на строителството и опазване на околната среда, проектиране, строителен надзор

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ИНВЕСТИЦИОНЕН ПРОЕКТ

Обект: Рехабилитация на улици и тротоари в кв. "Запад", гр Крумовград,
II -ри етап

Възложител: Община Крумовград

Изпълнител: „Екоинженеринг“ ЕООД

Част: Геодезия

Фаза: Технически проект

Съгласували:
Част., Електрическа @
Част.: Петна; ВОБЗ, ОД, ПБ;
ПБЗ, ПУСО. @

	КАМАРА НА ИНЖЕНЕРИТЕ В ИНВЕСТИЦИОННОТО ПРОЕКТИРАНЕ
	ПЪЛНА ПРОЕКТАНТСКА ПРАВОСПОСОБНОСТ
	Регистрационен № 22050
	инж. ГЕНАДИ ДИМИТРОВ ГИНЕВ
Секция: ГПГ	Подпис: @
Част на проекта: по удостоверение на ПП	ВАЖИ С ВАЛИДНО УДОСТОВЕРЕНИЕ ЗА ПП ЗА ТЕКУЩАТА ГОДИНА

Проектант:.....
/инж. Г. Гинев/



УДОСТОВЕРЕНИЕ

ЗА ПЪЛНА ПРОЕКТАНТСКА ПРАВОСПОСОБНОСТ

Регистрационен номер № 22050

Важи за 2017 година

инж. ГЕНАДИ ДИМИТРОВ ГИНЕВ

ОБРАЗОВАТЕЛНО-КВАЛИФИКАЦИОННА СТЕПЕН

МАГИСТЪР

ПРОФЕСИОНАЛНА КВАЛИФИКАЦИЯ

ИНЖЕНЕР - ГЕОДЕЗИСТ

включен в регистъра на КИИП за лицата с пълна проектантска правоспособност
с протоколно решение на УС на КИИП 136/31.03.2017 г. по части:

ГЕОДЕЗИЯ, ПРИЛОЖНА ГЕОДЕЗИЯ, ВЕРТИКАЛНО ПЛАНИРАНЕ, ТРАСИРОВЪЧНИ
ПРОЕКТИ И ПЛАНОВЕ, ПЛАНОВЕ ЗА РЕГУЛАЦИЯ

Председател на РК



инж. Д. Востанджиев

Председател на КР

инж. А. Чинев

Председател на УС на КИИП



инж. И. Каралеев

СЪДЪРЖАНИЕ

1. *Обяснителна записка;*
2. *Ръчна скица;*
3. *Геодезическо заснемане;*
4. *Резултати от изравнението на геодезическата мрежа с координатни регистри на дадените и новите точки;*
5. *GNSS координати;*
6. *Диск с dpr, kor, dwg и cad файлове.*

ОБЯСНИТЕЛНА ЗАПИСКА

Геодезическото заснемане е извършено по заявка Община Крумовград. Заснети са трайните елементи на местността, улиците, бордюрите, тротоарите, алеи, шахти, улично осветление.

Заснемането е извършено по полярен метод с тотална станция TOPCON GTS 226, с точност на ъгловите измервания $18''$ и точност на линейните измервания $\pm (2 \text{ мм} + 2 \text{ ppm} \times D)$.

Използвани са:

Триангулационна точка - 41

Полигонови точки – 5, 6, 11, 13, 14 и 15.

Резултатите от измерванията са обработени със специализиран софтуер. Създаден е цифров модел на ситуацията. Разпечатани са координатните регистри на новите и дадените точки, както резултатите от изравнението.

Заснемането е извършено и с GNSS Trimble R4 с корекции в реално време от перманентната мрежа на Geonet. Геодезическото заснемане е в координатна система 1970 год., като е използвана локална трансформация по следните триангулационни точки: 41, 42, 43 и 230. Резултатите от измерванията са обработени с фирмения софтуер Trimble Access.

септември 2017 год.

	КАМАРА НА ИНЖЕНЕРИТЕ В ИНЖЕНЕРНОТО ПРОЕКТИРАНЕ
	ПЪЛНА ПРОЕКТАНТСКА ПРАВОСПОСОБНОСТ
	Регистрационен № 22050
	инж. ГЕНАДИ ДИМИТРОВ ГИНЕВ
Секция: ГПГ	Подпис: _____
Части на проекта: по удостоверение за ПП	ВЛЖИ С ВАЛИДНО УДОСТОВЕРЕНИЕ ЗА ПП ЗА ТЕКУЩА ГОДИНА



М 1:500



O B E K T :Zapad

K ₀ -Γ°	Л« ±	X	Y	Л« ±	H	Mx	My	Ms	Mh
1970	5	4520000.000	9430000.000	0	0.0000	0.0	0.0	0.000	0.00
100041	5	4528141.289	9435178.636	5	228.7640	0.0	0.0	0.000	0.00
110015	5	4528136.227	9435204.390	5	229.1720	0.0	0.0	0.000	0.00
110005	5	4528280.433	9435310.685	5	237.4700	0.0	0.0	0.000	0.00
110014	5	4528098.507	9435296.397	5	229.6290	0.0	0.0	0.000	0.00
110011	5	4528210.865	9435429.035	5	241.3770	0.0	0.0	0.000	0.00

O B E K T :Zapad

7	40	5	5	0	1	2	0	5	60	3	5
NS	I	NT	T	R	Z	S					
100041	1.533	110014	1.445	322.6670	99.6050	125.296					
		110014	1.445	122.6660	300.3940	125.298					
		110015	1.445	312.8230	99.2080	26.265					
		110015	1.445	112.8190	300.7880	26.264					
		5	1.445	221.4850	100.6840	75.838					
		6	1.445	227.9200	100.4090	76.762					
		7	1.445	226.8030	100.5190	75.100					
		8	1.445	228.7100	100.6160	71.471					
		9	1.940	231.4070	100.1930	64.272					
		10	1.445	236.7980	100.8360	46.545					
		11	1.445	212.4340	99.7570	87.538					
		12	2.540	215.8220	100.2580	87.344					
		13	1.445	215.6700	100.4260	83.773					
		14	1.445	225.7450	100.2040	83.968					
		15	1.445	227.0670	100.2670	83.209					
		16	1.445	227.5660	100.3540	80.634					
		17	1.445	218.3780	100.7430	78.430					
		18	1.445	219.9120	100.4300	80.293					
		19	1.445	213.6830	100.2700	89.460					
		20	1.445	217.1320	100.1710	89.054					
		21	1.445	217.1470	100.2410	85.554					
		22	1.445	228.1190	100.0760	85.891					
		23	1.445	228.6710	100.3070	80.719					
		24	1.445	231.9430	100.3240	77.823					
		25	1.445	233.1850	100.5310	70.687					
		26	1.445	234.3840	100.5630	70.981					
		27	1.445	234.7970	100.6520	63.444					
		28	1.445	235.7930	100.6860	60.044					
		29	1.445	236.6920	100.5740	60.146					
		30	1.445	253.8440	100.6550	37.508					
		31	1.445	256.4550	100.9100	35.057					
		130001	1.445	300.7280	98.9720	38.015					
		130001	1.445	100.7240	301.0280	38.013	*				
130001	1.636	100041	1.445	287.1880	101.5000	38.019					
		100041	1.445	87.1850	298.5030	38.021					
		110015	1.445	262.6180	102.3090	13.205					
		110015	1.445	62.6120	297.6880	13.205					
		38	1.445	354.0690	103.5670	24.069					
		39	1.445	378.8160	103.7220	18.026					
		40	1.445	391.7540	102.4230	32.037					
		41	1.445	394.3650	102.0100	39.396					
		42	1.445	398.0980	101.1680	58.360					
		43	1.445	397.2140	101.1610	58.636					
		44	1.445	397.2470	101.0750	62.500					
		45	1.445	399.0220	99.9970	77.971					
		46	1.445	397.9660	100.2250	76.881					
		47	1.445	396.7190	101.2030	58.639					
		48	1.445	393.7940	101.6090	45.183					
		49	1.445	389.5900	102.4140	33.403					
		50	1.445	384.8840	102.6290	28.482					
		51	1.445	375.9910	103.5020	20.496					
		52	1.445	356.5830	103.4750	24.426					
		53	1.445	354.4560	102.7830	30.755					
		54	1.445	0.5430	100.8050	18.338					
		55	1.445	3.3070	99.8320	24.682					
		56	1.445	3.4350	99.5230	30.623					
		57	1.445	6.1850	98.9820	42.688					
		58	1.445	6.3240	98.5320	54.224					
		59	1.445	6.6300	98.1360	66.663					
		60	1.445	4.3070	97.9830	77.895					
		61	1.445	25.4170	98.3030	51.655					
		62	1.445	35.3020	98.1180	34.841					
		63	1.445	44.4570	98.1390	27.196					
		64	1.445	55.0440	98.2510	36.010					
		65	1.445	43.8890	98.0960	31.244					
		66	1.445	34.5100	97.9740	40.422					
		67	1.445	32.5690	98.1900	51.683					
		68	1.445	103.6120	100.2290	22.217					
		69	1.445	103.6700	99.9240	22.162					
		70	1.445	69.5730	98.8360	28.522					
		71	1.445	69.5300	98.4400	28.471					
		72	1.445	93.7780	99.7480	28.020					
		73	1.445	93.8400	99.3760	28.071					
		74	1.445	106.4670	100.2570	27.078					
		75	1.445	106.4730	99.9340	27.125					
		130002	1.445	6.1330	98.0530	76.956					
		130002	1.445	206.1380	301.9500	76.952	*				
130002	1.623	130001	1.445	96.0890	102.2530	76.966					
		130001	1.445	296.0920	297.7470	76.968					
		80	1.445	84.4890	102.3330	51.892					
		81	1.445	79.5740	102.0500	52.786					
		82	1.445	66.7540	102.1690	30.569					
		83	1.445	66.5170	101.9570	28.091					
		84	1.445	75.2380	102.1720	28.648					
		85	1.445	51.6810	101.6140	36.146					
		86	1.445	49.3520	100.7740	37.332					
		87	1.445	39.4120	100.3330	32.123					
		88	1.445	35.9310	100.1490	34.510					

89	1.445	30.8540	100.0450	32.755
90	1.445	29.1700	99.9440	34.447
91	1.445	36.6450	99.9800	37.134
92	1.445	39.8670	100.2340	34.874
93	1.445	49.1570	100.4030	40.002
94	1.445	51.4880	100.6350	38.795
95	1.445	53.8500	101.8900	37.673
96	1.445	63.0370	101.6260	42.267
97	1.940	201.6960	109.4140	15.831
98	1.445	212.5980	110.0130	16.388
99	1.445	207.7150	108.7390	23.767
100	1.445	221.2850	106.7370	25.181
101	1.445	220.8430	106.7390	30.932
102	1.445	219.8750	106.6290	33.110
103	1.445	269.7190	102.1590	6.942
104	1.445	269.3150	100.8800	6.932
105	1.445	270.9090	104.6160	4.173
106	1.445	269.8290	102.2360	4.161
107	1.445	39.9370	108.1810	2.585
108	1.445	40.9020	104.4390	2.547
109	1.445	50.7020	103.6320	7.166
110	1.445	51.1760	102.4220	7.156
111	1.445	50.5450	102.7930	9.959
112	1.445	50.7920	101.9770	9.977
113	1.445	48.3350	101.9400	14.061
114	1.445	48.5440	101.3530	14.087
115	1.445	47.4290	101.7470	15.063
116	1.445	47.5900	101.1590	15.092
117	1.445	45.2980	101.5520	16.393
118	1.445	45.4510	101.0040	16.427
119	1.445	40.9300	101.1210	19.862
120	1.445	41.0390	100.6430	19.899
121	1.445	38.3500	100.9940	21.832
122	1.445	38.4950	100.5900	21.848
123	1.445	34.0040	100.6950	25.175
124	1.445	34.0880	100.3340	25.206
125	1.445	30.5990	100.4380	27.862
126	1.445	30.5240	100.1460	28.006
127	1.445	26.8470	100.2260	31.603
128	1.445	26.9200	99.9740	31.653
129	1.445	30.3000	100.0050	32.380
130	1.445	36.3720	100.0880	27.292
131	1.445	42.2110	100.3300	23.512
132	1.445	45.7410	100.5660	21.071
133	1.445	49.2520	100.7650	18.659
134	1.445	54.1820	101.2190	15.806
135	1.445	57.7790	101.2390	13.238
136	1.445	63.3630	101.8060	9.670
137	1.445	70.9870	102.4660	5.615
138	1.445	103.4360	105.6360	1.919
139	1.445	234.1070	101.9070	3.038
140	1.445	250.9040	101.7240	7.300
141	1.445	316.1650	98.0140	17.587
142	1.445	316.1550	97.3930	17.526
143	1.445	313.9500	98.0090	17.112
144	1.445	313.9690	97.4650	17.067
145	1.445	312.5660	98.0770	16.660
146	1.445	312.6210	97.6510	16.617
147	1.445	308.9240	98.7540	14.773
148	1.445	309.0970	98.1890	14.784
149	1.445	307.9110	99.6840	11.620
150	1.445	308.0820	99.0900	11.592
151	1.445	310.4300	100.2700	9.622
152	1.445	310.6230	99.3990	9.610
153	1.445	323.9690	101.1780	7.152
154	1.445	324.5090	100.0340	7.176
155	1.445	375.2160	102.7540	5.876
156	1.445	375.3980	101.4540	5.897
157	1.445	14.4750	102.5410	9.195
158	1.445	14.1930	101.7250	9.223
159	1.445	24.2290	101.5920	13.234
160	1.445	24.0010	101.2520	13.254
161	1.445	25.4860	101.1450	15.884
162	1.445	25.2600	100.9060	15.875
163	1.445	24.9500	100.7910	19.075
164	1.445	24.8190	100.5380	19.092
165	1.445	22.6250	100.3530	23.359
166	1.445	22.5580	100.0120	23.318
167	1.445	20.9290	100.2170	24.298
168	1.445	20.9140	99.8280	24.233
169	1.445	19.7560	100.1300	24.483
170	1.445	19.7010	99.7980	24.426
171	1.445	9.2140	99.7480	23.879
172	1.445	9.1350	99.3650	23.824
173	1.445	2.3890	99.5660	48.802
174	1.445	2.2980	99.2330	48.780
175	1.445	398.9500	99.0460	48.603
176	1.445	0.5010	99.2630	37.714
177	1.445	2.5390	99.2580	25.930
178	1.445	3.9020	99.4120	21.197
179	1.445	17.3530	99.7830	22.256
180	1.445	17.4780	100.3670	17.053
181	1.445	15.9560	100.5720	14.450
182	1.445	0.5460	101.2510	10.031
183	1.445	374.3130	99.8200	7.833
184	1.445	336.6870	99.4150	8.989
185	1.445	318.4460	97.8200	15.664
186	1.445	357.8960	95.2180	12.663
187	1.445	375.3040	97.6950	11.152
188	1.445	387.4390	97.6170	25.364

	189	1.445	24.9380	101.8420	13.677	
	190	1.445	25.2180	101.7240	14.160	
	191	1.445	47.5160	102.0050	14.570	
	192	1.445	47.9290	102.0690	14.236	
	193	1.445	25.0350	104.0910	5.461	
	194	1.445	313.8510	98.0340	17.636	
	130003	1.445	316.6390	96.4940	43.783	
	130003	1.445	116.6330	303.5100	43.783	
	130004	1.445	1.2290	99.1800	47.408	
	130004	1.445	201.2350	300.8230	47.408	
	130005	1.445	223.1620	103.9570	53.022	
	130005	1.445	23.1670	296.0410	53.018 *	
130005	1.633	130002	1.445	318.4080	96.4820	52.996
		130002	1.445	118.4060	303.5190	52.995
		203	1.445	370.5310	103.8320	10.727
		204	1.445	381.5880	103.9310	11.337
		205	1.445	381.0650	101.8710	21.056
		206	1.445	374.7270	102.9420	13.637
		207	1.445	354.4020	101.9280	15.668
		208	1.445	350.6920	102.2640	14.546
		209	1.445	325.1420	100.5880	23.011
		210	1.445	338.5530	102.8680	13.328 *
130004	1.624	130002	1.445	184.2380	101.3030	47.420
		130002	1.445	384.2410	298.7060	47.419
		213	1.445	103.1700	101.3270	14.699
		214	1.445	104.5150	101.4890	13.953
		215	1.445	61.7490	100.7690	13.191
		216	1.445	62.6610	100.6990	14.068
		217	1.445	111.8830	102.7170	12.456
		218	1.445	111.9040	101.8210	12.512
		219	1.445	60.8870	102.6250	11.310
		220	1.445	60.8440	101.4020	11.343
		221	1.445	24.6290	101.0560	16.630
		222	1.445	24.6840	100.3030	16.684
		223	1.445	10.5100	100.3080	23.152
		224	1.445	10.6040	99.8360	23.204
		225	1.445	7.9280	100.2470	25.867
		226	1.445	8.1090	99.7820	25.902
		227	1.445	8.6410	100.3310	27.093
		228	1.445	8.8320	99.9180	27.065
		229	1.445	10.3610	100.4770	27.960
		230	1.445	10.5480	100.0320	27.923
		231	1.445	16.3670	100.6450	30.224
		232	1.445	16.4060	100.2400	30.145
		233	1.445	20.9380	99.9000	24.769
		234	1.445	24.6480	99.9660	20.930
		235	1.445	58.3450	100.5170	14.508
		236	1.445	63.2260	100.2220	15.751
		237	1.445	104.3320	101.0150	16.221
		238	1.445	120.3930	101.7070	16.482
		239	1.445	204.8540	98.8480	23.688
		240	1.445	215.1940	97.4380	17.183
		241	1.445	223.9890	96.6620	18.897
		242	1.445	244.7250	96.1280	14.157
		243	1.445	265.2390	96.3690	31.006
		244	1.445	270.9230	96.0930	30.571
		245	1.445	274.8400	96.3710	48.686
		246	1.445	281.8990	95.5500	48.156
		247	1.445	286.7840	95.2210	48.307
		248	1.445	282.3870	95.6150	16.795
		249	1.445	288.7520	95.4460	17.148
		250	1.445	289.3000	95.1680	15.995
		251	1.445	305.5280	89.1670	7.178
		252	1.445	320.1720	66.8410	2.483
		253	1.445	246.6140	93.5280	6.408
		254	1.445	366.2700	100.1560	7.933
		255	1.445	368.6000	99.8730	9.921
		256	1.445	354.5030	92.5530	10.752
		257	1.445	349.3250	90.9380	8.677
		258	1.445	367.8790	92.0530	10.035
		259	1.445	364.6130	90.0680	7.991
		130006	1.445	377.0940	99.6380	22.435
		130006	1.445	177.0980	300.3710	22.437 *
130006	1.655	130004	1.445	187.4090	101.4760	22.449
		130004	1.445	387.4060	298.5240	22.447
		264	1.445	207.4660	103.5470	3.182
		265	1.445	225.8000	90.7970	3.682
		266	1.445	273.4370	87.3130	2.096
		267	1.445	322.7090	91.6240	2.374
		268	1.445	351.0270	104.6490	1.675
		269	1.445	273.6540	91.8020	3.476
		270	1.445	218.7490	93.0340	7.323
		271	1.445	28.3370	108.5570	1.965
		272	1.445	27.0710	106.0460	1.902
		273	1.445	103.7750	114.0500	1.840
		274	1.445	104.7690	108.2170	1.777
		275	1.445	132.8770	110.8570	2.445
		276	1.445	133.2500	106.5530	2.378
		277	1.445	176.6440	104.1540	8.977
		278	1.445	177.2110	102.4560	8.968
		279	1.445	78.9890	102.3400	21.537
		280	1.445	79.1580	101.8280	21.491
		281	1.445	78.1960	102.5860	23.823
		282	1.445	78.2960	101.9840	23.865
		283	1.445	75.8950	102.6600	26.318
		284	1.445	76.0570	102.0730	26.324
		285	1.445	73.1590	102.6720	28.796
		286	1.445	73.2630	102.2230	28.803
		287	1.445	70.1240	102.5660	31.618
		288	1.445	70.2770	102.1570	31.677

289	1.445	69.1950	102.4710	34.054
290	1.445	69.2890	102.2120	34.045
291	1.445	71.6620	102.5410	38.754
292	1.445	71.7690	102.1800	38.735
293	1.445	74.4030	102.5130	45.222
294	1.445	74.4050	102.2430	45.217
295	1.445	82.5960	101.7930	25.312
296	1.445	92.5990	101.7870	25.544
297	1.445	93.4780	101.8590	23.554
298	1.445	59.9780	102.2970	35.053
299	1.445	59.8560	102.0760	35.051
300	1.445	67.6410	102.1890	46.464
301	1.445	67.5790	101.9840	46.471
302	1.445	68.7960	102.2280	48.502
303	1.445	68.7440	101.9830	48.531
304	1.445	69.9110	102.2460	49.983
305	1.445	69.8370	101.9660	50.028
306	1.445	68.0130	101.9590	58.672
307	1.445	67.9800	101.9100	55.109
308	1.445	62.4460	101.8800	44.797
309	1.445	60.4590	101.7480	45.348
310	1.445	56.9890	101.7580	40.943
311	1.445	55.4430	101.8640	39.719
312	1.445	52.7800	101.8160	37.309
313	1.445	49.3930	101.7370	42.463
314	1.445	47.4210	101.6270	45.111
130007	1.445	275.5750	94.6360	35.330
130007	1.445	75.5730	305.3660	35.329
130008	1.445	364.2120	95.4970	45.946
130008	1.445	164.2050	304.5030	45.946
130009	1.445	80.1470	102.5500	49.558
130009	1.445	280.1470	297.4490	49.544 *
130009 1.668	1.445	135.8190	98.0160	49.542
130006	1.445	335.8160	301.9850	49.544
323	1.445	150.6260	97.7210	18.039
324	1.445	130.9660	97.8500	18.135
325	1.445	110.0200	98.7170	20.204
326	1.445	110.0750	98.7250	20.836
327	1.445	105.4780	98.8340	21.795
328	1.445	110.1860	98.2920	24.652
329	1.445	104.5490	98.8170	19.667
330	1.445	109.6620	98.7420	18.602
331	1.445	110.1380	98.7210	18.884
332	1.445	130.4330	98.4480	16.832
333	1.445	124.7690	99.5460	10.906
334	1.445	99.2210	100.9500	13.605
335	1.445	99.3680	101.0180	14.135
336	1.445	99.0980	101.0560	14.294
337	1.445	92.5520	102.1660	15.645
338	1.445	86.0530	102.4330	14.393
339	1.445	92.6280	101.0940	12.729
340	1.445	95.4640	101.0210	12.725
341	1.445	122.7520	99.8140	9.735
342	1.445	109.0060	102.1610	5.700
343	1.445	70.4360	102.1950	12.264
344	1.445	120.6970	101.8360	5.180
345	1.445	134.8150	98.3510	16.648
346	1.445	241.8930	100.2180	7.400
347	1.445	242.0500	98.4240	7.464
348	1.445	257.7750	100.6940	6.577
349	1.445	257.8360	99.4980	6.616
350	1.445	289.6340	102.6130	5.892
351	1.445	289.7510	101.6780	5.925
352	1.445	312.5200	103.9490	5.870
353	1.445	312.5080	102.7870	5.909
354	1.445	332.8770	104.2450	6.203
355	1.445	332.7240	103.2200	6.238
356	1.445	349.3030	104.2190	6.726
357	1.445	348.9820	103.5600	6.759
358	1.445	371.8160	104.5020	8.056
359	1.445	370.9430	103.5210	8.330
360	1.445	9.9240	103.3450	14.212
361	1.445	9.6860	102.7900	14.245
362	1.445	20.0600	102.4160	19.097
363	1.445	19.9540	102.0170	19.097
364	1.445	29.2560	102.0110	29.468
365	1.445	29.1940	101.8080	29.473
366	1.445	32.6210	101.8250	36.749
367	1.445	32.5290	101.6360	36.732
368	1.445	34.4830	101.6660	44.469
369	1.445	34.4040	101.5740	44.489
370	1.445	18.7110	101.7070	24.678
371	1.445	15.9290	101.5570	25.230
372	1.445	6.1060	102.4310	15.962
373	1.445	389.5280	102.6870	12.804
374	1.445	350.1280	101.7800	11.264
375	1.445	350.1020	102.1260	10.086
376	1.445	304.3440	101.0690	11.021
377	1.445	286.2390	100.1610	12.622
378	1.445	281.9190	100.2050	12.023
379	1.445	275.3230	100.0970	13.955
380	1.445	201.5910	101.9100	3.784
381	1.445	200.8130	99.6650	3.737
382	1.445	210.7600	104.1010	2.803
383	1.445	209.6210	100.7620	2.766
384	1.445	307.1400	124.1310	0.994
385	1.445	308.3280	115.1330	0.880
386	1.445	351.9490	120.2900	1.299
387	1.445	352.9430	114.8940	1.233
388	1.445	7.1920	108.7400	4.194

	389	1.445	8.1230	107.3130	4.147
	390	1.445	13.4070	107.9460	4.713
	391	1.445	13.3760	106.5580	4.619
	392	1.445	22.0910	107.6160	5.014
	393	1.445	22.3150	106.1170	4.943
	394	1.445	74.9410	105.7630	5.556
	395	1.445	75.1480	104.7010	5.531
	396	1.445	398.6570	109.6450	3.861
	397	1.445	390.3120	105.4660	7.076
	130010	1.445	45.7110	101.3380	44.925
	130010	1.445	245.7140	298.6600	44.924 *
130010 1.633	130009	1.445	257.6690	99.2570	44.918
	130009	1.445	57.6690	300.7490	44.921
	402	1.445	253.1630	99.8730	33.676
	403	1.445	253.0960	99.6250	33.712
	404	1.445	252.9000	99.9800	31.036
	405	1.445	252.6830	99.8880	30.960
	406	1.445	252.0710	100.1410	25.891
	407	1.445	251.8490	99.9720	25.910
	408	1.445	249.4980	100.5870	16.253
	409	1.445	249.0340	100.5480	16.230
	410	1.445	233.7820	103.3680	5.231
	411	1.445	232.7820	100.0930	5.247
	412	1.445	276.3070	104.5940	4.605
	413	1.445	276.3070	103.1080	4.533
	414	1.445	361.1560	109.5300	2.634
	415	1.445	398.9430	105.6880	4.724
	416	1.445	4.6870	104.6640	6.132
	417	1.445	5.4280	103.8070	6.140
	418	1.445	5.9610	103.4940	8.707
	419	1.445	6.4080	102.8010	8.735
	420	1.445	4.3850	103.2610	10.776
	421	1.445	4.6050	102.8080	10.810
	422	1.445	1.0940	103.2270	12.549
	423	1.445	1.3400	102.2990	12.611
	424	1.445	393.6730	102.6050	16.103
	425	1.445	393.8030	102.1870	16.124
	426	1.445	390.7060	103.0580	18.292
	427	1.445	390.7750	102.7560	18.214
	428	1.445	367.0990	102.7480	33.354
	429	1.445	368.3660	103.0480	29.089
	430	1.445	368.2720	102.7960	29.062
	431	1.445	371.4840	103.3030	19.720
	432	1.445	371.3340	102.7730	19.704
	433	1.445	374.5970	103.5840	14.298
	434	1.445	374.3940	102.9190	14.293
	435	1.445	374.9270	103.7590	11.613
	436	1.445	374.7290	103.1350	11.645
	437	1.445	372.1480	103.8990	9.958
	438	1.445	371.9950	103.1180	9.970
	439	1.445	365.2050	103.7620	8.757
	440	1.445	364.9060	102.8940	8.786
	441	1.445	353.4960	103.3960	8.009
	442	1.445	353.4260	102.9370	8.039
	443	1.445	330.4500	101.5010	10.292
	444	1.445	349.9290	102.3680	9.711
	445	1.445	361.8270	102.6430	10.920
	446	1.445	365.2840	102.8200	12.267
	447	1.445	366.4790	102.6090	14.351
	448	1.445	365.6540	102.7670	19.338
	449	1.940	364.4550	101.6200	27.665
	450	1.445	347.0480	101.7020	26.121
	451	1.445	347.6650	102.2490	27.821
	452	1.445	343.5710	102.3200	28.049
	453	1.445	338.1040	101.5260	20.068
	454	1.445	327.3600	101.1080	13.150
	455	1.445	308.3770	100.3670	15.929
	456	1.445	320.6050	103.3750	6.364
	457	1.445	6.8020	104.1390	6.106
	458	1.445	19.5960	104.1460	5.216
	459	1.445	87.6840	100.6970	7.570
	460	1.445	160.8120	102.2160	3.596
	461	1.445	160.7090	96.7670	22.005
	462	1.445	181.3330	96.6120	23.102
	463	1.445	204.9680	97.2610	29.354
	464	1.445	218.6250	97.5810	37.769
	465	1.445	225.6540	98.2040	36.323
	466	1.445	215.3340	97.7520	27.880
	467	1.445	174.0250	97.1260	17.503
	468	1.445	220.8430	97.2420	33.837
	469	1.445	213.6280	97.0900	28.295
	470	1.445	191.7410	96.4150	21.078
	471	1.445	171.7420	97.1920	16.712
	472	1.445	197.3810	99.4530	7.080
	130001	1.445	14.5130	102.1780	40.749
	130001	1.445	214.5130	297.8160	40.751 *
130003 1.662	130002	1.445	78.6900	104.0870	43.807
	130002	1.445	278.6930	295.9070	43.806
	477	1.445	67.1660	105.2140	23.892
	478	1.445	67.1490	104.7710	23.927
	479	1.445	48.0860	104.6250	22.571
	480	1.445	48.0730	104.2490	22.609
	481	1.445	42.2910	104.4480	22.291
	482	1.445	42.2920	104.0300	22.334
	483	1.445	36.0710	103.9790	21.894
	484	1.445	36.0730	103.8210	21.941
	485	1.445	32.1330	103.9270	21.549
	486	1.445	32.1960	103.6550	21.602
	487	1.445	28.2710	103.8090	21.069
	488	1.445	28.2710	103.4440	21.114

489	1.445	21.3850	103.6150	19.681	
490	1.445	21.3440	103.1690	19.697	
491	1.445	13.5530	103.3910	18.322	
492	1.445	13.5190	102.8340	18.364	
493	1.445	5.7690	103.0060	17.260	
494	1.445	5.7130	102.4280	17.286	
495	1.445	1.6330	102.6270	16.697	
496	1.445	1.5730	102.0050	16.736	
497	1.445	374.9420	101.6970	13.845	
498	1.445	374.8280	101.0680	13.881	
499	1.445	344.2280	99.7340	13.988	
500	1.445	344.2280	99.1910	14.054	
501	1.445	334.0790	99.2340	14.962	
502	1.445	334.2180	98.6120	15.003	
503	1.445	323.9450	98.4280	17.032	
504	1.445	324.0140	97.9990	17.109	
505	1.445	313.7320	97.8110	22.154	
506	1.445	313.8600	97.4560	22.216	
507	1.445	305.8550	97.0770	30.983	
508	1.445	305.8980	96.8550	31.005	
509	1.445	302.3110	96.7740	37.641	
510	1.445	302.3650	96.6510	37.650	
511	1.445	301.6840	96.6560	41.301	
512	1.445	301.7340	96.4080	41.285	
513	1.445	316.9300	96.2250	45.123	
514	1.445	303.8820	96.4370	43.589	
515	1.445	307.5150	96.5710	35.674	
516	1.445	312.9060	96.7320	28.481	
517	1.445	319.9090	97.2080	22.798	
518	1.445	333.7570	98.3300	17.311	
519	1.445	365.8910	100.1820	15.768	
520	1.445	365.3210	100.0450	17.146	
521	1.445	339.3660	98.5590	17.939	
522	1.445	341.9030	97.3440	21.015	
523	1.445	322.3050	96.6260	24.229	
524	1.445	325.9430	96.2960	26.674	
525	1.445	316.3280	96.5870	29.691	
526	1.445	321.6320	96.5040	29.934	
527	1.445	328.1650	96.2830	28.054	
528	1.445	328.1470	96.8510	24.691	
529	1.445	345.3860	97.1910	22.213	
530	1.445	345.6470	98.8840	19.144	
531	1.445	370.1080	99.8900	18.833	
532	1.445	383.3400	100.6480	18.943	
533	1.445	0.3510	101.0910	23.199	
534	1.445	6.2530	101.7630	21.229	
535	1.445	6.7920	102.1660	21.285	
536	1.445	19.9800	102.3140	26.370	
537	1.445	30.9120	102.6910	27.852	
538	1.445	32.5280	102.5840	28.982	
539	1.445	39.0470	102.9820	27.850	
540	1.445	38.9300	103.1700	26.591	
541	1.445	48.2260	103.6990	25.589	
542	1.445	56.7010	104.0160	25.266	
543	1.445	66.6030	104.3680	25.528	
544	1.445	66.4550	104.0380	26.929	
545	1.445	23.1810	102.7630	23.937	
130011	1.445	321.5750	96.3260	47.679	
130011	1.445	121.5710	303.6790	47.677 *	
130011 1.607	130003	1.445	311.6340	104.1920	47.700
	130003	1.445	111.6320	295.8090	47.699
	550	1.445	264.5560	107.2600	8.420
	551	1.445	262.2590	105.8780	10.188
	552	1.445	227.9690	104.3490	10.693
	553	1.445	210.6620	100.8910	9.332
	554	1.445	204.4230	99.8870	9.890
	555	1.445	210.1410	99.9150	14.023
	556	1.445	230.6050	102.5780	12.701
	557	1.445	231.4640	103.5110	12.624
	558	1.445	248.2620	104.4340	12.111
	559	1.445	248.2170	105.2790	10.724
	560	1.445	271.8940	105.2050	11.387
	561	1.445	286.4430	104.5320	12.866
	562	1.445	288.3540	105.1450	12.290
	563	1.445	119.0470	98.9790	17.550
	564	1.445	104.8690	98.9300	19.768
	565	1.445	95.0360	99.0250	18.278
	566	2.540	74.9860	97.0690	30.469
	567	1.445	55.4220	99.8240	19.080
	568	1.445	53.7040	99.3810	19.352
	569	1.445	60.4350	97.7480	24.698
	570	1.445	64.6070	96.4550	29.497
	571	2.540	65.7120	97.0970	29.147
	110005	1.445	28.5200	100.9460	17.531
	110005	1.445	228.5130	299.0540	17.531
	574	1.445	209.6150	99.6610	19.787
	575	1.445	201.0870	99.4150	22.376
	576	1.445	195.8300	99.3660	25.746
	577	1.445	202.6380	99.5150	23.164
	578	1.445	211.6610	99.2800	20.512
	579	1.445	221.9810	100.2980	18.815
	130012	1.445	177.2340	98.8530	42.599
	130012	1.445	377.2350	301.1520	42.596 *
130012 1.597	130011	1.445	278.8520	101.6270	42.603
	130011	1.445	78.8530	298.3750	42.602
	584	1.445	174.6350	109.7640	5.275
	585	1.940	96.1920	102.0580	7.597
	586	1.445	84.0120	99.6090	6.660
	587	1.445	73.6590	99.2430	9.619
	588	1.940	88.6340	101.2150	10.773

589	1.445	73.5380	102.2120	17.696	
590	1.445	82.2730	102.0580	18.723	
591	1.445	87.0130	102.6880	15.280	
592	1.445	167.6750	107.1710	6.781	
593	1.445	178.7410	100.7350	3.819	
594	1.445	173.7160	100.6420	4.886	
595	1.445	95.6550	99.7600	7.269	
596	1.445	86.6070	99.0190	10.777	
597	1.445	72.4820	99.0940	17.593	
598	1.445	193.4290	107.6950	6.123	
599	1.445	174.3830	105.8230	10.606	
600	1.445	188.0620	105.2950	11.709	
601	1.445	176.6670	104.8040	12.648	
602	1.445	207.1300	103.6940	7.102	
603	1.445	219.2360	102.9130	7.863	
130013	1.445	54.8220	98.5410	36.907	
130013	1.445	254.8200	301.4640	36.908	
130014	1.445	382.5730	95.7780	31.472	
130014	1.445	182.5680	304.2210	31.470 *	
130014 1.563	130012	1.445	45.6670	104.7910	31.490
	130012	1.445	245.6680	295.2100	31.488
	610	1.445	6.3780	104.5870	13.732
	611	1.445	12.6530	105.1280	13.663
	612	1.445	10.4460	103.4320	5.106
	613	1.445	9.9910	100.9090	4.768
	614	1.445	1.5950	103.4330	1.531
	615	1.445	66.0100	103.6910	2.745
	616	1.445	72.6800	103.5060	4.280
	617	1.445	67.9350	104.0850	7.044
	618	1.445	63.4200	104.7330	10.294
	619	1.445	56.8580	105.0690	15.452
	620	1.445	5.8250	104.3780	12.385
	621	1.445	395.5980	102.5590	5.327
	622	1.445	393.7020	100.0810	4.894
	623	1.445	352.7610	98.9070	8.073
	624	1.445	341.5230	99.2540	7.405
	625	1.445	331.8910	99.0170	11.137
	626	1.445	327.8490	99.1390	14.260
	627	1.445	324.8230	99.2160	18.182
	628	1.445	324.6040	99.2460	21.631
	629	1.445	323.7720	99.3940	28.608
	630	1.445	321.1910	99.3360	28.855
	631	1.445	320.5530	99.3090	32.292
	632	1.445	320.4490	99.2660	35.945
	633	1.445	320.3790	99.0650	39.721
	634	1.445	319.4990	99.0620	39.757
	635	1.445	318.6520	98.7330	46.880
	636	1.445	316.7490	98.7070	47.099
	637	1.445	316.1370	98.5960	49.333
	638	1.445	313.8650	98.6450	50.420
	639	1.445	313.7960	98.6620	60.995
	640	2.540	305.7040	97.9360	67.291
	641	1.445	304.5400	98.7860	59.869
	642	1.445	301.1920	98.6850	46.110
	643	1.445	300.2390	99.0340	46.220
	644	1.445	288.1120	99.1600	26.338
	645	1.445	274.2320	97.0480	29.923
	646	1.445	243.8010	95.3330	22.357
	647	1.445	256.3620	95.6880	27.474
	648	0.060	260.4040	98.5360	34.183
	649	1.445	249.7480	95.4310	30.245
	650	1.445	231.3330	94.8190	26.696
	651	1.445	226.3960	94.4600	22.640
	652	1.445	229.3300	94.1600	19.371
	653	1.445	233.7290	94.5580	19.796
	654	1.445	238.2080	95.2920	15.457
	655	1.445	237.9570	94.9290	15.396
	656	1.445	255.1820	98.2340	8.775
	657	1.445	254.6430	97.6020	8.708
	658	1.445	256.4220	98.9850	8.165
	659	1.445	255.9790	98.0720	8.154
	660	1.445	252.0270	99.1440	7.751
	661	1.445	251.7550	97.9700	7.837
	662	1.445	246.5620	99.6070	8.007
	663	1.445	247.0250	97.7530	8.109
	664	1.445	239.8990	99.4450	9.913
	665	1.445	240.4270	95.7670	9.977
	666	1.445	228.5350	98.9820	18.728
	667	1.445	228.8240	95.3730	18.868
	668	1.445	208.4750	99.1610	14.799
	669	1.445	175.9570	99.4550	17.099
	670	1.445	185.3040	99.4960	18.856
	671	1.445	209.5910	99.2140	18.093
	672	1.445	225.4860	99.0370	22.045
	673	1.445	206.9570	99.0810	21.937
	674	1.445	177.7500	99.1380	25.644
	675	1.445	173.8800	99.2500	23.161
	676	1.445	158.3310	98.7840	28.325
	677	1.445	157.9680	98.9270	29.438
	678	1.445	149.5950	99.6410	35.598
	679	1.445	145.2360	99.8260	34.344
	680	1.445	145.1830	100.5730	32.647
	681	2.540	139.3080	99.6350	31.234
	682	1.445	129.9660	104.0130	29.822
	683	1.445	123.8070	104.1910	29.263
	684	1.445	122.3250	104.0060	30.636
	685	2.540	112.1350	102.8670	30.301
	686	1.445	137.9930	101.3670	31.021
	687	1.445	140.9760	101.6290	27.838
	688	2.540	133.3040	101.9600	26.426

	689	1.445	125.5420	104.4090	27.786
	690	1.445	113.1090	105.0750	27.454
	691	2.540	101.1220	102.8630	28.415
	692	2.540	99.3160	103.4250	30.108
	693	1.445	142.0420	101.6270	27.752
	694	1.445	130.1200	102.5380	25.985
	695	1.445	279.1920	99.1250	11.306 *
130013 1.627	130012	1.445	384.0630	102.0420	36.919
	130012	1.445	184.0620	297.9530	36.914
	698	1.445	384.2050	102.1310	36.739
	699	1.445	384.0980	102.0420	36.730
	700	1.445	382.6890	102.2300	30.291
	701	1.445	382.5790	102.1170	30.307
	702	1.445	382.1490	102.4780	23.353
	703	1.445	381.9930	102.3570	23.373
	704	1.445	382.2530	102.9340	18.263
	705	1.445	382.0390	102.5640	18.255
	706	1.445	383.7460	104.6430	6.833
	707	1.445	383.2190	103.5740	6.831
	708	1.445	179.4640	100.2580	5.700
	709	1.445	180.2730	99.4440	5.688
	710	1.445	180.7000	99.3340	14.334
	711	1.445	180.8790	98.9540	14.323
	712	1.445	181.8840	98.9710	21.319
	713	1.445	183.6330	99.0080	22.723
	714	1.445	188.5220	99.2120	24.468
	715	1.445	193.0550	99.5830	25.808
	716	1.445	189.4880	100.3510	19.385
	717	1.445	190.0930	100.3820	17.897
	718	1.445	189.9140	99.7320	17.867
	719	1.445	191.8890	99.5270	14.577
	720	1.445	191.9280	98.8730	14.525
	721	1.445	180.8910	98.9560	14.321
	722	1.445	280.5880	104.6700	1.858
	723	1.445	280.6750	112.0080	2.551
	724	1.445	362.6900	102.9230	8.545
	725	1.445	381.8670	103.3070	8.162
	726	1.445	381.8490	102.8160	14.201
	727	1.445	371.2490	102.3090	14.340
	728	1.445	373.9880	101.9680	20.096
	729	1.445	368.7870	102.1120	13.089
	730	1.445	363.4860	102.6010	9.562
	731	1.445	342.0900	103.7700	6.614
	732	1.445	260.0610	106.6030	4.092
	733	1.445	250.4810	112.1610	2.933
	734	1.445	243.1600	101.2940	2.835
	735	1.445	206.4990	99.3290	6.053
	736	1.445	206.8270	105.6830	6.247
	737	1.445	199.3030	103.6590	8.886
	738	1.445	198.7020	98.9920	8.906
	739	1.445	193.2440	98.7820	13.032
	740	1.445	155.0940	97.6260	39.210
	741	1.445	148.3860	97.1500	31.438
	742	1.445	137.6690	96.9090	24.336
	743	1.445	137.7640	97.1080	22.598
	744	1.445	93.8750	98.3780	14.265
	745	1.445	27.3870	99.4250	20.617
	746	1.445	199.5640	106.0780	5.981
	747	1.445	193.6070	103.4960	8.714
	748	1.445	181.5700	99.3710	8.623
	749	1.445	181.2070	99.5100	5.609
	130015	1.445	190.8200	99.0670	31.444
	130015	1.445	390.8170	300.9350	31.443 *
130015 1.436	130013	1.445	226.5580	101.2960	31.444
	130013	1.445	26.5620	298.7030	31.441
	754	1.445	183.9010	104.3280	13.766
	755	1.445	186.6150	103.8740	14.918
	756	1.445	200.5480	104.1190	13.575
	757	1.445	22.4590	99.8380	12.976
	758	1.445	112.7710	106.7190	1.317
	759	1.445	31.4910	99.9600	11.677
	760	1.445	57.0770	101.6780	4.788
	761	1.445	87.5660	102.2280	8.760
	762	1.445	97.6370	103.1470	8.333
	763	1.445	104.0690	103.5180	12.061
	764	1.445	106.9250	103.8870	15.799
	765	1.445	108.4170	104.1030	19.437
	110011	1.445	381.8240	96.9900	25.847
	110011	1.445	181.8310	303.0150	25.847
	768	1.445	334.2180	96.7660	28.658 *
130008 1.538	130006	1.445	28.0030	104.9290	45.971
	130006	1.445	228.0060	295.0720	45.966
	771	1.445	257.3450	98.5020	44.781
	772	1.445	257.3680	98.2070	44.826
	773	1.445	265.6390	99.0930	44.405
	774	1.445	265.6550	98.8240	44.431
	775	1.445	267.9020	99.2720	44.112
	776	1.445	267.9020	99.0020	44.151
	777	1.445	271.4670	99.5380	43.181
	778	1.445	271.4810	99.3200	43.201
	779	1.445	274.3810	99.6790	41.945
	780	1.445	274.4270	99.4950	41.983
	781	1.445	280.0330	99.9880	39.247
	782	1.445	280.0560	99.8280	39.274
	783	1.445	283.1480	100.1440	37.478
	784	1.445	283.1910	99.9460	37.511
	785	1.445	287.0990	100.2960	34.722
	786	1.445	287.1380	100.0740	34.773
	787	1.445	302.6760	101.4780	24.966
	788	1.445	302.7910	101.0220	24.982

789	1.445	254.4290	97.8230	49.613
790	1.445	259.4370	97.9790	49.505
791	1.445	259.6080	98.0600	48.575
792	1.445	264.5360	98.4930	49.006
793	1.445	264.2990	98.4190	50.236
794	1.445	273.0430	98.6940	51.818
795	1.445	275.2410	99.3730	46.686
796	1.445	278.0910	99.4060	47.380
797	1.445	279.8530	99.4760	44.337
798	1.445	283.9460	99.6110	41.495
799	1.445	286.7230	99.8220	38.294
800	1.445	288.7050	99.7780	38.823
801	1.445	292.1860	99.9250	35.780
802	1.445	293.9960	100.1820	32.145
803	1.445	299.0840	100.5300	29.076
804	1.445	301.1940	100.4460	29.910
805	1.445	313.5350	101.1600	25.168
806	1.445	315.7660	101.0610	26.305
807	1.445	321.6780	101.2590	24.862
808	1.445	321.5820	101.4500	23.256
809	1.445	332.0810	101.9240	21.502
810	1.445	354.9710	102.5250	21.672
811	1.445	368.0880	103.2040	22.223
812	1.445	388.5490	104.6010	40.126
813	1.445	379.3150	104.9690	38.152
814	1.445	381.9480	105.3660	32.932
815	1.445	390.6980	105.2010	34.448
816	1.445	393.3080	105.2070	31.762
817	1.445	395.2960	105.1310	32.287
818	1.445	389.4540	104.8690	37.719
819	1.445	393.4820	105.1420	33.023
820	1.445	394.3670	105.0250	33.217
821	1.445	399.3900	105.0030	28.896
822	1.445	12.7860	104.7470	33.991
823	1.445	12.8400	104.8080	35.160
824	1.445	36.2810	103.8990	24.545
825	1.445	38.3310	103.2110	27.116
826	1.445	39.3250	101.0420	28.532
827	1.445	39.5850	101.0280	29.006
828	1.445	38.4980	101.0940	29.181
829	1.445	41.4180	101.0210	28.262
830	1.445	41.6430	102.2740	27.704
831	1.445	39.5240	102.6020	24.259
832	1.445	52.7410	102.0630	27.037
833	1.445	52.7880	102.2210	23.571
834	1.445	72.7410	100.0790	24.331
835	1.445	88.9420	99.4900	26.934
836	1.445	96.5810	98.9540	22.984
837	1.445	108.7260	97.7220	18.650
838	1.445	108.6450	97.6920	17.968
839	1.445	135.2720	95.8490	14.016
840	1.445	139.4050	95.0130	17.022
841	1.445	158.7070	94.4370	16.524
842	1.445	210.2210	96.1660	25.218
843	1.445	222.1620	96.2530	32.927 *
130007 1.534 130006	1.445	130.4780	105.9090	35.369
130006	1.445	330.4790	294.0920	35.367
846	1.445	44.2430	97.6050	22.801
847	1.445	43.2470	98.1150	15.657
848	1.445	48.7550	97.3970	24.591
849	1.445	50.2040	98.0070	15.745
850	1.445	64.3830	98.3510	16.276
851	1.445	66.1340	98.5170	14.937
852	1.445	327.0190	96.3640	13.315
853	1.445	319.5620	96.5980	13.641
854	1.445	334.1640	96.5230	16.716
855	1.445	332.9960	96.4220	14.974
856	1.445	336.8060	95.9540	14.825
857	1.445	337.6930	95.4400	16.708
858	1.445	360.8480	95.2180	10.737
859	1.445	364.1760	94.0300	9.033
860	1.445	385.4620	93.9530	10.943
861	1.445	380.9470	94.0370	12.253
862	1.445	388.5660	94.4190	13.283
863	1.445	393.6420	94.3540	12.086
864	1.445	399.5670	94.5890	13.380
865	1.445	394.9140	94.8610	14.388
866	1.445	10.3760	95.3390	14.223
867	1.445	118.0060	103.0680	27.139
130012	1.445	11.0270	96.1030	34.685
130012	1.445	211.0290	303.8980	34.685 *

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#   ПРЕДВАРИТЕЛНА ОБРАБОТКА НА ГЕОДЕЗИЧЕСКИТЕ ИЗМЕРВАНИЯ
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ПЛАНОВА МРЕЖА: Координатна система - 1970г.

Зона..... 5
Клас на плановата мрежа..... 8
Средна квадратна грешка за посока..... 30[cc]
Константи на далекомера..... a=5, b=5, c=0
Точност на центриране на инструмента..... 5[mm]
Точност на центриране на сигнала..... 5[mm]
Брой дадени точки..... 5
Брой новоопределяеми точки..... 15
Брой отчетени посоки..... 74
Брой измерени посоки в мрежата..... 38
Брой отчетени разстояния..... 74
Брой измерени разстояния в мрежата..... 38

ВИСОЧИННА МРЕЖА: Височинна система - Балтийска

Клас на височинната мрежа:..... 6
Средна квадратна грешка за зенитен ъгъл... 50[cc]
Средна квадратна грешка за превишение:.... 50[mm]
Точност на височината на инструмента:..... 5[mm]
Точност на височината на сигнала:..... 5[mm]
Брой дадени репери:..... 5

1. Оценка на точността от двойната колимационна грешка

Максимално [несъвпадение, поправка, разлика]	-32.3 [cc]
Минимално [несъвпадение, поправка, разлика]	0.0 [cc]
Средно аритметична стойност $[pw]/n$	-0.4 [cc]
Вероятна грешка $ pw \cdot \sqrt{n/2}$	12.4 [cc]
Средно аритметична грешка $ pw /n$	12.7 [cc]
Асиметрия $([pw^3]/n)/(m^3)$	0.1 [cc]
Ексцес $([pw^4]/n)/(m^4)-3$	-0.8 [cc]
Средна квадратна грешка за единица тежест	15.3 [cc]
СКГ за ед. тежест от всички несъвпадения	15.3 [cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.83 : 0.81$	
Брой на допустимите разлики n	37
Брой на недопустимите разлики m	0
Брой на положителните грешки	17
Брой на отрицателните грешки	20
Брой на разликите (положителни-отрицателни)	-3
Брой на допустимите разлики (при дов.в.96%)	12

2. Оценка на точността от двойната индексна грешка на вертикалния кръг

Максимална двоина индексна грешка	-56.4 [cc]
Минимална двоина индексна грешка	0.2 [cc]
Средно аритметична стойност	-7.3 [cc]
Вероятна грешка	14.3 [cc]
Средно аритметична грешка	18.6 [cc]
Асиметрия	-0.1 [cc]
Ексцес	-0.1 [cc]
Средна квадратна грешка за зенитен ъгъл	25.1 [cc]
СКГ за z-ъгъл от всички несъвпадения	25.1 [cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.74 : 0.57$	
Брой на допустимите разлики n	37
Брой на недопустимите разлики m	0
Брой на положителните грешки	23
Брой на отрицателните грешки	14
Брой на разликите (положителни-отрицателни)	9
Брой на допустимите разлики (при дов.в.96%)	12

14. Оценка на точността от разликите в двустранно измерените разстояния	
Максимална разлика	8.1 [mm]
Минимална разлика	-0.2 [mm]
Средно аритметична стойност	0.9 [mm]
Вероятна стойност за a	1.4 [mm]
Средно аритметична стойност за a	2.3 [mm]
Асиметрия	1.5 [mm]
Ексцес	0.4 [mm]
Средна квадратична стойност за a	3.3 [mm]
Средна квадратична стойност за b	3.3 [mm/km]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.69 : 0.41$	
Брой на допустимите разлики n	15
Брой на недопустимите разлики m	0
Брой на положителните грешки	7
Брой на отрицателните грешки	8
Брой на разликите (положителни-отрицателни)	-1
Брой на допустимите разлики (при дов.в.96%)	6

15. Оценка на точността от разликите в двустранно измерените превиишения	
Максимално [несъвпадение, поправка, разлика]	-12.3 [mm]
Минимално [несъвпадение, поправка, разлика]	-0.3 [mm]
Средно аритметична стойност [pw]/n	-4.3 [mm]
Вероятна грешка pw [i] (i=n/2)	4.6 [mm]
Средно аритметична грешка [pw]/n	4.7 [mm]
Асиметрия $([pw^3]/n) / (m^3)$	-1.3 [mm]
Ексцес $([pw^4]/n) / (m^4) - 3$	-0.9 [mm]
Средна квадратна грешка за единица тежест	5.7 [mm]
СКГ за ед. тежест от всички несъвпадения	5.7 [mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.82 : 0.80$	
Брой на допустимите разлики n	15
Брой на недопустимите разлики m	0
Брой на положителните грешки	2
Брой на отрицателните грешки	13
Брой на разликите (положителни-отрицателни)	-11
Брой на допустимите разлики (при дов.в.96%)	6

Оценка на точността от обработката на гирусите (многократните измервания)	
Средна квадратна грешка за измерена посока	mr= 0.0 [cc]
Средна кв. грешка за измерено разстояние 1km	ms= 0.0 [mm]
Средна кв. грешка за измерено превиишение (ед.теж)	mh= 0.0 [mm]
Средна квадратна грешка за измерен зенитен ъгъл	mz= 0.0 [cc]

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#      ПРЕДВАРИТЕЛНА ОБРАБОТКА НА ПЛАНОВА МРЕЖА
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ПЛАНОВА МРЕЖА: Координатна система - 1970г.

Зона..... 5

Клас на плновата мрежа..... 8

Средна квадратна грешка за посока..... 30[cc]

Константи на далекомера..... a=5, b=5

Точност на центриране на инструмента..... 5[mm]

Точност на центриране на сигнала..... 5[mm]

Брой дадени точки..... 5

Брой новоопределяеми точки..... 15

Брой отчетени посоки..... 74

Брой измерени посоки в мрежата..... 38

Брой отчетени разстояния..... 74

Брой измерени разстояния в мрежата..... 38

I. Точки с по малко от три определящи елемента - няма.

II. Едностранны измервания

---> От лт7(8) към лт12(8) посока

---> От лт10(8) към лт1(8) посока

Едностранны измерени посоки - 2 бр.

---> От лт7(8) към лт12(8) разстояние

---> От лт10(8) към лт1(8) разстояние

Едностранны измерени разстояния - 2 бр.

III. Абрис на дадените точки:

No	Име(клас)	O
1	тт41(5)	199.5193

IV. Пренасяне на ориентировачни ъгли

(Предварително ъглово изравнение на мрежата)

4. Оценка на точността от нормираните поправки от пренасянето на ориентировъчните ъгли	
Максимално[несъвпадение, поправка, разлика]	53.9 [cc]
Минимално[несъвпадение, поправка, разлика]	0.0 [cc]
Средно аритметична стойност $[pw]/n$	-0.0 [cc]
Вероятна грешка $ pw [i] (i=n/2)$	0.0 [cc]
Средно аритметична грешка $[pw]/n$	6.3 [cc]
Асиметрия $([pw^3]/n)/(m^3)$	-0.0 [cc]
Ексцес $([pw^4]/n)/(m^4)-3$	4.5 [cc]
Средна квадратна грешка за единица тежест	19.0 [cc]
СКГ за ед. тежест от всички несъвпадения	19.0 [cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.33 : 0.00$	
Брой на допустимите разлики n	17
Брой на недопустимите разлики m	0
Брой на положителните грешки	7
Брой на отрицателните грешки	10
Брой на разликите (положителни-отрицателни)	-3
Брой на допустимите разлики (при дов.в.96%)	8

V. Сумиране на ъглите в триъгълниците

VII. Сумиране на включени полигони

VIII. Сумиране на затворени полигони

VIII. Приблизителни координати на точките

тт41(5)	4528141.289	9435178.636	199.5193	Дадена
пт5(5)	4528280.433	9435310.685	-----	Дадена
пт11(5)	4528210.865	9435429.035	-----	Дадена
пт14(5)	4528098.507	9435296.397	-----	Дадена
пт15(5)	4528136.227	9435204.390	-----	Дадена
лт1(8)	4528141.148	9435216.636	13.0588	Права задача от пт15(5) W
лт2(8)	4528214.605	9435239.480	123.1038	Права задача от лт1(8) W
лт3(8)	4528250.081	9435265.034	161.0483	Права задача от лт2(8) W
лт4(8)	4528196.919	9435283.470	140.0963	Права задача от лт2(8) W
лт5(8)	4528249.770	9435199.930	227.8613	Права задача от лт2(8) W
лт6(8)	4528190.932	9435305.098	129.7848	Права задача от лт4(8) W
лт7(8)	4528226.022	9435308.059	74.8803	Права задача от лт6(8) W
лт8(8)	4528195.251	9435350.730	265.9888	Права задача от лт6(8) W
лт9(8)	4528142.013	9435297.404	274.1143	Права задача от лт6(8) W
лт10(8)	4528155.742	9435254.662	262.1578	Права задача от лт1(8) W
лт11(8)	4528262.903	9435310.821	370.9883	Права задача от пт5(5) W
лт12(8)	4528233.636	9435341.769	69.3703	Права задача от лт11(8) W
лт13(8)	4528219.949	9435376.039	340.1288	Права задача от лт12(8) W
лт14(8)	4528255.155	9435364.642	206.2733	Права задача от лт12(8) W
лт15(8)	4528205.317	9435403.817	104.3873	Права задача от пт11(5) W

IX. Абрис на всички точки:

13. Оценка на точността от свободните членове за ъгловите измервания	
Максимално[несъвпадение, поправка, разлика]	194.1 [cc]
Минимално[несъвпадение, поправка, разлика]	0.0 [cc]
Средно аритметична стойност $[pw]/n$	-0.2 [cc]
Вероятна грешка $ pw [i] (i=n/2)$	6.7 [cc]
Средно аритметична грешка $[pw]/n$	44.7 [cc]
Асиметрия $([pw^3]/n)/(m^3)$	0.0 [cc]
Ексцес $([pw^4]/n)/(m^4)-3$	0.7 [cc]
Средна квадратна грешка за единица тежест	76.6 [cc]
СКГ за ед. тежест от всички несъвпадения	76.6 [cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.58 : 0.09$	
Брой на допустимите разлики n	34
Брой на недопустимите разлики m	0
Брой на положителните грешки	16
Брой на отрицателните грешки	18
Брой на разликите (положителни-отрицателни)	-2
Брой на допустимите разлики (при дов.в.96%)	10

17. Оценка на точността от свободните членове за измерените дължини		
Максимално [несъвпадение, поправка, разлика]	-64.2	[mm]
Минимално [несъвпадение, поправка, разлика]	0.0	[mm]
Средно аритметична стойност $[pw]/n$	-10.3	[mm]
Вероятна грешка $ pw [i] (i=n/2)$	2.8	[mm]
Средно аритметична грешка $[pw]/n$	11.4	[mm]
Асиметрия $([pw^3]/n)/(m^3)$	-2.2	[mm]
Ексцес $([pw^4]/n)/(m^4)-3$	2.5	[mm]
Средна квадратна грешка за единица тежест	21.6	[mm]
СКГ за ед. тежест от всички несъвпадения	21.6	[mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.53 : 0.13$		
Брой на допустимите разлики n	37	
Брой на недопустимите разлики m	0	
Брой на положителните грешки	13	
Брой на отрицателните грешки	24	
Брой на разликите (положителни-отрицателни)	-11	
Брой на допустимите разлики (при дов.в.96%)	12	

ОЦЕНКА НА ТОЧНОСТТА НА ИЗМЕРВАНИЯТА		
I. Средна квадратна грешка за посока получена от:		
1. двойната колимационна грешка.....	15.28	[cc]
3. абрисите на дадените точки.....	0.00	[cc]
4. пренасянето на ориентировъчните ъгли.....	19.05	[cc]
5. несъвпадения в триъгълниците.....	0.00	[cc]
6. ъглови несъвпадения във включените полигони.....	0.00	[cc]
7. несъвпадения f_x във включените полигони.....	0.00	[cc]
8. несъвпадения f_y във включените полигони.....	0.00	[cc]
9. ъглови несъвпадения в затворените полигони.....	0.00	[cc]
10. несъвпадения f_x в затворените полигони.....	0.00	[cc]
11. несъвпадения f_y в затворените полигони.....	0.00	[cc]
II. Средна квадратна грешка за зенитен ъгъл при:		
- едно положение на тръбата.....	25.13	[cc]
- две положения на тръбата.....	17.78	[cc]
III. Параметри за дължините от разликите в двустранните измервания:		
1. средна стойност.....	2.26	[mm]
2. средно квадратична стойност.....	3.27	[mm]

Средна квадратна грешка за измерена посока от всички оценки.
Препоръчителна стойност за единица тежест: 20[cc]

ПАРАМЕТРИЧНО ИЗРАВНЕНИЕ НА ПЛАНОВА МРЕЖА #

#####

ДИМЕНСИИ:

Посоки и ъгли..... градуси;
Поправки и ср. кв. грешки за посоки... сантисантигради;
Разстояния и координати..... метри;
Поправки и СКГ за разст. и координати.. милиметри;

Избраният модел на тежестите е:

Единицата тежест - едно насочване и отчитане
В тежестите на измерените ъгли и дължини се отчитат:
- броя на измерванията
- влиянието точността на центриране на инструмента и сигнала.
Средната квадратна грешка за единица тежест трябва да се получи близка до проспективната точност на инструмента.

ЗАБЕЛЕЖКА:

В изравнението участват осреднените стойности от многократните измервания (ако има такива).

РЕЗУЛТАТИ ОТ ИЗРАВНЕНИЕТО

Станция: тт41(5) - Дадена $O=199.5182$ (измерени 3 посоки и 3 дължини)								
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал	Разстояние	ms	mv		
лт1(8)	300.7260	-59.7	100.2383	43.0	38.002	2.9	51.1	
пт15(5)	312.8210	161.8	112.3554	0.0	26.247	0.0	91.7	
пт14(5)	322.6665	-4.4	122.1843	0.0	125.291	0.0	12.8	
пт14(5)	125.3088	-17.4	122.1843	0.0	125.291	0.0	5.8	
пт15(5)	26.2655	-18.7	112.3554	0.0	26.247	0.0	5.5	
лт1(8)	38.0133	-11.6	100.2383	43.0	38.002	2.9	4.7	

Станция: лт1(8) - Нова O= 13.0416 (измерени 3 посоки и 3 дължини)						
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms mv
лт2(8)	6.1355	-44.9	19.1726	35.2	76.918	3.5 13.6
пт15(5)	262.6150	264.4	275.6831	122.1	13.199	3.0 146.7
тт41(5)	287.1865	100.7	300.2382	43.0	38.002	2.9 48.8
тт41(5)	38.0138	-12.0	300.2382	43.0	38.002	2.9 4.7
пт15(5)	13.1978	0.9	275.6831	122.1	13.199	3.0 4.6
лт2(8)	76.9267	-8.5	19.1726	35.2	76.918	3.5 4.4

Станция: лт2(8) - Нова O=123.0838 (измерени 4 посоки и 4 дължини)						
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms mv
лт4(8)	1.2320	20.1	124.3178	54.0	47.411	3.6 30.1
лт1(8)	96.0905	-17.5	219.1726	35.2	76.918	3.5 14.6
лт5(8)	223.1645	-0.0	346.2483	65.2	52.922	3.9 0.0
лт3(8)	316.6360	18.4	39.7217	45.2	43.714	3.5 31.1
лт1(8)	76.9275	-9.3	219.1726	35.2	76.918	3.5 4.4
лт3(8)	43.7215	-7.0	39.7217	45.2	43.714	3.5 4.3
лт4(8)	47.4094	1.3	124.3178	54.0	47.411	3.6 4.3
лт5(8)	52.9236	-1.5	346.2483	65.2	52.922	3.9 3.9

Станция: лт3(8) - Нова O=161.0342 (измерени 2 посоки и 2 дължини)						
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms mv
лт2(8)	78.6915	-41.4	239.7216	45.2	43.714	3.5 26.7
лт11(8)	321.5730	35.9	82.6108	49.4	47.597	3.5 23.2
лт2(8)	43.7211	-6.6	239.7216	45.2	43.714	3.5 4.3
лт11(8)	47.6039	-7.4	82.6108	49.4	47.597	3.5 4.3

Станция: лт4(8) - Нова O=140.0760 (измерени 2 посоки и 2 дължини)						
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms mv
лт2(8)	184.2395	22.1	324.3178	54.0	47.411	3.6 16.6
лт6(8)	377.0960	-85.9	117.1635	84.3	22.440	3.5 64.7
лт2(8)	47.4150	-4.3	324.3178	54.0	47.411	3.6 4.3
лт6(8)	22.4382	1.5	117.1635	84.3	22.440	3.5 4.2

Станция: лт5(8) - Нова O=227.8414 (измерени 1 посоки и 1 дължини)						
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms mv
лт2(8)	318.4070	-0.0	146.2484	65.2	52.922	3.9 0.0
лт2(8)	52.9206	1.5	146.2484	65.2	52.922	3.9 3.9

Станция: лт6(8) - Нова O=129.7400 (измерени 4 посоки и 4 дължини)						
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms mv
лт9(8)	80.1470	-12.1	209.8858	59.1	49.520	3.8 20.5
лт4(8)	187.4075	158.4	317.1634	84.3	22.440	3.5 72.6
лт7(8)	275.5740	-46.7	5.3094	68.5	35.211	3.7 29.2
лт8(8)	364.2085	-0.0	93.9485	85.2	45.836	3.9 0.0
лт4(8)	22.4445	-4.9	317.1634	84.3	22.440	3.5 4.2
лт7(8)	35.2081	2.9	5.3094	68.5	35.211	3.7 4.1
лт8(8)	45.8363	-0.1	93.9485	85.2	45.836	3.9 3.9
лт9(8)	49.5168	3.0	209.8858	59.1	49.520	3.8 4.1

Станция: лт7(8) - Нова O= 74.8338 (измерени 2 посоки и 2 дължини)						
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms mv
лт12(8)	11.0280	31.2	85.8650	96.3	34.615	4.6 18.6
лт6(8)	130.4785	-30.3	205.3093	68.5	35.211	3.7 18.0
лт6(8)	35.2198	-8.8	205.3093	68.5	35.211	3.7 4.1
лт12(8)	34.6239	-9.3	85.8650	96.3	34.615	4.6 3.0

Станция: лт8(8) - Нова O=265.9440 (измерени 1 посоки и 1 дължини)						
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms mv
лт6(8)	28.0045	-0.0	293.9485	85.2	45.836	3.9 0.0
лт6(8)	45.8360	0.1	293.9485	85.2	45.836	3.9 3.9

Станция: лт9(8) - Нова O=274.0698 (измерени 2 посоки и 2 дължини)							
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние		ms mv
лт10(8)	45.7125	16.7	319.7840	60.0	44.919	3.8	26.7
лт6(8)	135.8175	-14.1	9.8859	59.1	49.520	3.8	22.7
лт6(8)	49.5245	-4.7	9.8859	59.1	49.520	3.8	4.1
лт10(8)	44.9196	-0.7	319.7840	60.0	44.919	3.8	4.1

Станция: лт10(8) - Нова O=262.1149 (измерени 2 посоки и 2 дължини)							
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние		ms mv
лт1(8)	14.5130	-1.9	276.6277	73.0	40.727	4.7	12.0
лт9(8)	257.6690	1.6	119.7841	60.0	44.919	3.8	10.1
лт1(8)	40.7307	-3.9	276.6277	73.0	40.727	4.7	2.9
лт9(8)	44.9215	-2.5	119.7841	60.0	44.919	3.8	4.1

Станция: лт11(8) - Нова O=370.9765 (измерени 3 посоки и 3 дължини)							
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние		ms mv
пт5(5)	28.5165	-41.2	399.4889	121.8	17.513	4.4	63.3
лт12(8)	177.2345	-6.9	148.2103	53.3	42.588	3.5	28.2
лт3(8)	311.6330	12.3	282.6107	49.4	47.597	3.5	25.5
пт5(5)	17.5310	-18.2	399.4889	121.8	17.513	4.4	3.2
лт3(8)	47.6015	-5.0	282.6107	49.4	47.597	3.5	4.3
лт12(8)	42.5954	-7.1	148.2103	53.3	42.588	3.5	4.3

Станция: лт12(8) - Нова O= 69.3581 (измерени 3 посоки и 3 дължини)							
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние		ms mv
лт13(8)	54.8210	4.3	124.1795	61.0	36.893	3.6	30.3
лт11(8)	278.8525	-3.3	348.2102	53.3	42.588	3.5	23.5
лт14(8)	382.5705	-0.0	51.9286	102.5	31.404	3.9	0.0
лт11(8)	42.5934	-5.2	348.2102	53.3	42.588	3.5	4.3
лт13(8)	36.9020	-8.5	124.1795	61.0	36.893	3.6	4.2
лт14(8)	31.4054	-1.0	51.9286	102.5	31.404	3.9	3.9

Станция: лт13(8) - Нова O=340.1152 (измерени 2 посоки и 2 дължини)							
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние		ms mv
лт15(8)	190.8185	-22.7	130.9315	71.3	31.433	3.6	24.9
лт12(8)	384.0625	17.0	324.1794	61.0	36.893	3.6	18.6
лт12(8)	36.9016	-8.2	324.1794	61.0	36.893	3.6	4.2
лт15(8)	31.4437	-10.2	130.9315	71.3	31.433	3.6	4.2

Станция: лт14(8) - Нова O=206.2610 (измерени 1 посоки и 1 дължини)							
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние		ms mv
лт12(8)	45.6675	-0.0	251.9285	102.5	31.404	3.9	0.0
лт12(8)	31.4034	1.0	251.9285	102.5	31.404	3.9	3.9

Станция: лт15(8) - Нова O=104.3648 (измерени 2 посоки и 2 дължини)							
към N	пос. (раз.)	п-ка	Посочен ъгъл Мал		Разстояние		ms mv
лт13(8)	226.5600	65.7	330.9314	71.3	31.433	3.6	16.9
пт11(5)	381.8275	-94.8	86.1828	110.4	25.806	4.7	24.4
пт11(5)	25.8209	-15.0	86.1828	110.4	25.806	4.7	2.8
лт13(8)	31.4395	-6.1	330.9314	71.3	31.433	3.6	4.2

О Ц Е Н К А Н А Т О Ч Н О С Т Т А

Контролни суми и максимална по абсолютна стойност поправка:

[pvv]= 107749.0 [pff. 46]= 107749.0 |v|max= 264.4 (nor)|v|max= 110.8

Средна квадратна грешка за единица тежест Me = 32.5[сс]

Зададена точност на центриране:

- на инструмента 5.0[mm]
- на сигнала 5.0[mm]

Средната квадратна грешка за измерена посока при едно положение на тръбата с отчитане влиянието точността на центриране на инструмента и сигнала е:

- за разстояние 50 метра mr= 76.2
- за разстояние 100 метра mr= 47.4
- за разстояние 1000 метра mr= 32.7

СПИСЪК НА ДАДЕНИТЕ ТОЧКИ

No	Име (клас)	X	Y
1	тт41 (5)	4528141.289	9435178.636
2	пт5 (5)	4528280.433	9435310.685
3	пт11 (5)	4528210.865	9435429.035
4	пт14 (5)	4528098.507	9435296.397
5	пт15 (5)	4528136.227	9435204.390

СПИСЪК НА НОВИТЕ ТОЧКИ

(Полуоси на елипсите на грешките при доверителна вероятност 68%)

No	Име (клас)	X	mx	Y	my	ms	Rmax	Rmin	Fi
1	лт1 (8)	4528141.147	2.6	9435216.638	2.9	3.9	3.0	2.5	90.0
2	лт2 (8)	4528214.603	4.2	9435239.454	4.4	6.1	4.7	3.9	137.1
3	лт3 (8)	4528250.081	4.8	9435264.994	4.6	6.6	5.0	4.3	166.5
4	лт4 (8)	4528196.930	5.5	9435283.448	4.9	7.4	5.8	4.6	178.5
5	лт5 (8)	4528249.756	6.3	9435199.893	7.0	9.4	7.2	6.0	80.8
6	лт6 (8)	4528190.953	6.2	9435305.077	5.0	8.0	6.4	4.8	190.0
7	лт7 (8)	4528226.042	6.3	9435308.010	5.3	8.2	6.3	5.3	198.8
8	лт8 (8)	4528195.304	9.4	9435350.706	6.3	11.4	9.5	6.2	195.5
9	лт9 (8)	4528142.029	6.8	9435297.418	6.1	9.1	6.9	5.9	14.6
10	лт10 (8)	4528155.765	5.1	9435254.650	5.5	7.4	5.5	5.0	110.7
11	лт11 (8)	4528262.921	4.4	9435310.826	3.4	5.6	4.5	3.3	195.9
12	лт12 (8)	4528233.665	5.4	9435341.775	4.4	6.9	5.4	4.4	198.5
13	лт13 (8)	4528219.987	5.8	9435376.039	4.8	7.5	5.8	4.8	4.6
14	лт14 (8)	4528255.188	7.2	9435364.643	5.9	9.3	7.3	5.8	191.8
15	лт15 (8)	4528205.308	4.5	9435403.834	4.7	6.5	4.7	4.5	98.3

Максимална ср. кв. грешка ms = 11.36 в лт8 (8) пореден номер 8

```
#####
#
#      ПРЕДВАРИТЕЛНА ОБРАБОТКА НА НИВЕЛАЧНА МРЕЖА
#      (тригонометрична нивелация)
#
#####
```

ВИСОЧИННА МРЕЖА: Височинна система - Балтийска

Клас на височинната мрежа:..... 6

Средна квадратна грешка за зенитен ъгъл:.. 50[сс]

Средна квадратна грешка за превииение:.... 50[mm]

Точност на височината на инструмента:..... 5[mm]

Точност на височината на сигнала:..... 5[mm]

Брой дадени репери:..... 5

Брой новоопределяеми точки..... 16

Брой отчетени превииения..... 74

Брой измерени превииения в мрежата..... 38

I. Едностранно измерени превииения

```
----> От   тт41 (5) към   пт14 (5)
----> От   тт41 (5) към   пт15 (5)
----> От   лт1 (8)  към   пт15 (5)
----> От   лт7 (8)  към   лт12 (8)
----> От   лт10 (8) към   лт1 (8)
----> От   лт11 (8) към   пт5 (5)
----> От   лт15 (8) към   пт11 (5)
```

Едностранно измерени превииения - 7 бр.

II. Точки с по малко от две определящи превииения

```
----> лт5 (8) - 1 бр.
----> лт8 (8) - 1 бр.
----> лт14 (8) - 1 бр.
```

Точки с по малко от две определящи превииения - 3 бр.

III. Сумиране на включени нивелачни ходове

Включен нивелачен ход № 1 от 6 точки

от точка	към точка	hik	p	Sik
тт41 (5)	лт1 (8)	0.7028	4.1336	38.014
лт1 (8)	лт2 (8)	2.5456	2.8152	76.927
лт2 (8)	лт3 (8)	2.5924	3.9410	43.721
лт3 (8)	лт11 (8)	2.9726	3.8064	47.603
лт11 (8)	пт5 (5)	-0.0985	2.3460	17.531
Fh= -0.0090 Fhd=0.139		pFh=0.649 [S]=		223.796

Включен нивелачен ход № 2 от 9 точки

от точка	към точка	hik	p	Sik
тт41(5)	лт1(8)	0.7028	4.1336	38.014
лт1(8)	лт2(8)	2.5456	2.8152	76.927
лт2(8)	лт3(8)	2.5924	3.9410	43.721
лт3(8)	лт11(8)	2.9726	3.8064	47.603
лт11(8)	лт12(8)	0.9336	3.9797	42.594
лт12(8)	лт13(8)	1.0013	4.1699	36.902
лт13(8)	лт15(8)	0.6463	4.3410	31.442
лт15(8)	пт11(5)	1.2137	2.2477	25.821
Fh= 0.0047 Fhd=0.145		pFh=0.439 [S]= 343.023		

Включен нивелачен ход № 3 от 3 точки

от точка	към точка	hik	p	Sik
тт41(5)	лт1(8)	0.7028	4.1336	38.014
лт1(8)	пт15(5)	-0.2881	2.3824	13.198
Fh= -0.0067 Fhd=0.129		pFh=1.511 [S]= 51.211		

Включен нивелачен ход № 4 от 6 точки

от точка	към точка	hik	p	Sik
пт5(5)	лт11(8)	0.0985	2.3460	17.531
лт11(8)	лт12(8)	0.9336	3.9797	42.594
лт12(8)	лт13(8)	1.0013	4.1699	36.902
лт13(8)	лт15(8)	0.6463	4.3410	31.442
лт15(8)	пт11(5)	1.2137	2.2477	25.821
Fh= 0.0137 Fhd=0.140		pFh=0.628 [S]= 154.290		

Включен нивелачен ход № 5 от 7 точки

от точка	към точка	hik	p	Sik
пт5(5)	лт11(8)	0.0985	2.3460	17.531
лт11(8)	лт3(8)	-2.9726	3.8064	47.603
лт3(8)	лт2(8)	-2.5924	3.9410	43.721
лт2(8)	лт1(8)	-2.5456	2.8152	76.927
лт1(8)	тт41(5)	-0.7028	4.1336	38.014
тт41(5)	пт14(5)	0.8656	0.8291	125.309
Fh= 0.0084 Fhd=0.149		pFh=0.364 [S]= 349.105		

Включен нивелачен ход № 6 от 6 точки

от точка	към точка	hik	p	Sik
пт5(5)	лт11(8)	0.0985	2.3460	17.531
лт11(8)	лт3(8)	-2.9726	3.8064	47.603
лт3(8)	лт2(8)	-2.5924	3.9410	43.721
лт2(8)	лт1(8)	-2.5456	2.8152	76.927
лт1(8)	пт15(5)	-0.2881	2.3824	13.198
Fh= 0.0023 Fhd=0.141		pFh=0.582 [S]= 198.980		

Включен нивелачен ход № 7 от 10 точки

от точка	към точка	hik	p	Sik
пт11(5)	лт15(8)	-1.2137	2.2477	25.821
лт15(8)	лт13(8)	-0.6463	4.3410	31.442
лт13(8)	лт12(8)	-1.0013	4.1699	36.902
лт12(8)	лт11(8)	-0.9336	3.9797	42.594
лт11(8)	лт3(8)	-2.9726	3.8064	47.603
лт3(8)	лт2(8)	-2.5924	3.9410	43.721
лт2(8)	лт1(8)	-2.5456	2.8152	76.927
лт1(8)	тт41(5)	-0.7028	4.1336	38.014
тт41(5)	пт14(5)	0.8656	0.8291	125.309
Fh= -0.0053 Fhd=0.154		pFh=0.287 [S]= 468.332		

Включен нивелачен ход № 8 от 9 точки

от точка	към точка	hik	p	Sik
пт11(5)	лт15(8)	-1.2137	2.2477	25.821
лт15(8)	лт13(8)	-0.6463	4.3410	31.442
лт13(8)	лт12(8)	-1.0013	4.1699	36.902
лт12(8)	лт11(8)	-0.9336	3.9797	42.594
лт11(8)	лт3(8)	-2.9726	3.8064	47.603
лт3(8)	лт2(8)	-2.5924	3.9410	43.721
лт2(8)	лт1(8)	-2.5456	2.8152	76.927
лт1(8)	пт15(5)	-0.2881	2.3824	13.198
Fh= -0.0114 Fhd=0.147		pFh=0.407 [S]= 318.208		

18. Оценка на точността от нормираните несъвпадения във включените нивелачни ходове	
Максимално [несъвпадение, поправка, разлика]	10.9 [mm]
Минимално [несъвпадение, поправка, разлика]	1.7 [mm]
Средно аритметична стойност $[pw]/n$	-0.6 [mm]
Вероятна грешка $ pw \cdot [i] \cdot (i=n/2)$	6.1 [mm]
Средно аритметична грешка $[pw]/n$	5.8 [mm]
Асиметрия $([pw^3]/n) / (m^3)$	0.0 [mm]
Ексцес $([pw^4]/n) / (m^4) - 3$	-1.7 [mm]
Средна квадратна грешка за единица тежест	6.9 [mm]
СКГ за ед. тежест от всички несъвпадения	6.9 [mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.83 : 0.88$	
Брой на допустимите разлики n	8
Брой на недопустимите разлики m	0
Брой на положителните грешки	4
Брой на отрицателните грешки	4
Брой на разликите (положителни-отрицателни)	0
Брой на допустимите разлики (при дов.в.96%)	4

IV. Сумиране на затворени нивелачни ходове

Затворен нивелачен ход № 1 от 13 точки

от точка	към точка	hik	p	Sik
лт1(8)	лт2(8)	2.5456	2.8152	76.927
лт2(8)	лт3(8)	2.5924	3.9410	43.721
лт3(8)	лт11(8)	2.9726	3.8064	47.603
лт11(8)	лт12(8)	0.9336	3.9797	42.594
лт12(8)	лт7(8)	-2.2113	2.1178	34.624
лт7(8)	лт6(8)	-3.1863	4.2242	35.214
лт6(8)	лт9(8)	-1.7709	3.7392	49.521
лт9(8)	лт10(8)	-0.7181	3.8997	44.921
лт10(8)	лт1(8)	-1.2076	2.0204	40.731
Fh= 0.0500 Fhd=0.040 ***		pFh=0.351	[S]=	415.855

Затворен нивелачен ход № 2 от 4 точки

от точка	към точка	hik	p	Sik
тт41(5)	лт1(8)	0.7028	4.1336	38.014
лт1(8)	пт15(5)	-0.2881	2.3824	13.198
пт15(5)	тт41(5)	-0.4140	2.2441	26.265
Fh= -0.0007 Fhd=0.025		pFh=0.903	[S]=	77.477

Затворен нивелачен ход № 3 от 4 точки

от точка	към точка	hik	p	Sik
тт41(5)	пт15(5)	0.4140	2.2441	26.265
пт15(5)	лт1(8)	0.2881	2.3824	13.198
лт1(8)	тт41(5)	-0.7028	4.1336	38.014
Fh= 0.0007 Fhd=0.025		pFh=0.903	[S]=	77.477

Затворен нивелачен ход № 4 от 10 точки

от точка	към точка	hik	p	Sik
лт1(8)	лт2(8)	2.5456	2.8152	76.927
лт2(8)	лт3(8)	2.5924	3.9410	43.721
лт3(8)	лт11(8)	2.9726	3.8064	47.603
лт11(8)	лт12(8)	0.9336	3.9797	42.594
лт12(8)	лт7(8)	-2.2113	2.1178	34.624
лт7(8)	лт6(8)	-3.1863	4.2242	35.214
лт6(8)	лт9(8)	-1.7709	3.7392	49.521
лт9(8)	лт10(8)	-0.7181	3.8997	44.921
лт10(8)	лт1(8)	-1.2076	2.0204	40.731
Fh= 0.0500 Fhd=0.040 ***		pFh=0.351	[S]=	415.855

Затворен нивелачен ход № 5 от 7 точки

от точка	към точка	hik	p	Sik
лт1(8)	лт10(8)	1.2076	2.0204	40.731
лт10(8)	лт9(8)	0.7181	3.8997	44.921
лт9(8)	лт6(8)	1.7709	3.7392	49.521
лт6(8)	лт4(8)	-0.3093	4.5854	22.441
лт4(8)	лт2(8)	-0.7889	3.8130	47.412
лт2(8)	лт1(8)	-2.5456	2.8152	76.927
Fh= -0.0528 Fhd=0.032 ***		pFh=0.539	[S]=	281.953

от точка	към точка	hik	p	Sik
лт2(8)	лт4(8)	0.7889	3.8130	47.412
лт4(8)	лт6(8)	0.3093	4.5854	22.441
лт6(8)	лт7(8)	3.1863	4.2242	35.214
лт7(8)	лт12(8)	2.2113	2.1178	34.624
лт12(8)	лт11(8)	-0.9336	3.9797	42.594
лт11(8)	лт3(8)	-2.9726	3.8064	47.603
лт3(8)	лт2(8)	-2.5924	3.9410	43.721
Fh= 0.0028 Fhd=0.033		pFh=0.511 [S]= 273.610		

19. Оценка на точността от нормираните
несъвпадения в затворените нивелачни ходове

Максимално [несъвпадение, поправка, разлика]	-38.8 [mm]
Минимално [несъвпадение, поправка, разлика]	0.7 [mm]
Средно аритметична стойност [pw]/n	3.7 [mm]
Вероятна грешка pw [i] (i=n/2)	15.8 [mm]
Средно аритметична грешка [pw]/n	16.9 [mm]
Асиметрия ((pw^3)/n)/(m^3)	-0.1 [mm]
Ексцес ((pw^4)/n)/(m^4)-3	-1.5 [mm]
Средна квадратна грешка за единица тежест	25.5 [mm]
СКГ за ед. тежест от всички несъвпадения	25.5 [mm]
m : s : r = 1 : 0.80 : 0.67 = 1: 0.66 : 0.62	
Брой на допустимите разлики n	6
Брой на недопустимите разлики m	0
Брой на положителните грешки	4
Брой на отрицателните грешки	2
Брой на разликите (положителни-отрицателни)	2
Брой на допустимите разлики (при дов.в.96%)	4

V. Изчисляване на приблизителни височини

лт1(8)	N= 229.4654	Нивелачен ход от	тт41(5) до	пт5(5)
лт2(8)	N= 232.0090	Нивелачен ход от	тт41(5) до	пт5(5)
лт3(8)	N= 234.5999	Нивелачен ход от	тт41(5) до	пт5(5)
лт4(8)	N= 232.7983	Нивелачен ход от	лт2(8) до	лт2(8)
лт6(8)	N= 233.1079	Нивелачен ход от	лт2(8) до	лт2(8)
лт7(8)	N= 236.2945	Нивелачен ход от	лт2(8) до	лт2(8)
лт11(8)	N= 237.5709	Нивелачен ход от	тт41(5) до	пт5(5)
лт12(8)	N= 238.5138	Нивелачен ход от	тт41(5) до	пт11(5)
лт13(8)	N= 239.5156	Нивелачен ход от	тт41(5) до	пт11(5)
лт15(8)	N= 240.1624	Нивелачен ход от	тт41(5) до	пт11(5)
лт5(8)	N= 228.8931	Определена от	лт2(8)	
лт8(8)	N= 236.5676	Определена от	лт6(8)	
лт9(8)	N= 231.3370	Определена от	лт10(8)	
лт10(8)	N= 230.6374	Определена от	лт1(8)	
лт14(8)	N= 240.7571	Определена от	лт12(8)	

ОЦЕНКА НА ТОЧНОСТТА НА ИЗМЕРВАНИЯТА

I. Средна квадратна грешка за превишение получена от:		
15. разликите в двустранно измерените превишения.....	5.73 [mm]	
18. несъвпадения във включените нивелачни ходове.....	6.95 [mm]	
19. несъвпадения в затворените нивелачни ходове.....	25.54 [mm]	

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#
# ПАРАМЕТРИЧНО ИЗРАВНЕНИЕ НА НИВЕЛАЧНА МРЕЖА
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ДИМЕНСИИ:

Коти и превишения..... метри;

Разстояния..... метри;

Поправки..... милиметри;

Средни кв. грешки за превишения..... милиметри;

ТРИГОНОМЕТРИЧНА НИВЕЛАЦИЯ

В изравнението участват усреднените стойности от многократно измерените превишения (ако има такива).

Средната квадратна грешка за единица тежест е за разстояние S=42.0m и зенитен ъгъл Z=100g.

В средната квадратна грешка за единица тежест не е включено влиянието на грешката от измерването височината на инструмента и сигнала.

РЕЗУЛТАТИ ОТ ИЗРАВНЕНИЕТО

От точка	Към точка	Измерено h' [m]	mh'	Изравнено h [m]	mh	Поправка v [mm]	mv	Разстояние [m]
тт41 (5)	лт1 (8)	0.7019	4.6	0.6979	2.4	-4.0	3.9	38.01
тт41 (5)	пт15 (5)	0.4140	4.4	0.4080	0.0	-6.0	4.4	26.27
тт41 (5)	пт14 (5)	0.8656	7.2	0.8650	0.0	-0.6	7.2	125.31
лт1 (8)	лт2 (8)	2.5464	5.5	2.5521	3.1	5.7	4.6	76.93
лт1 (8)	пт15 (5)	-0.2881	4.2	-0.2899	2.4	-1.8	3.5	13.20
лт1 (8)	тт41 (5)	-0.7037	4.6	-0.6979	2.4	5.8	3.9	38.01
лт5 (8)	лт2 (8)	3.1157	4.9	3.1159	3.4	0.2	3.4	52.92
лт10 (8)	лт9 (8)	0.7145	4.7	0.7093	3.0	-5.2	3.6	44.92
лт10 (8)	лт1 (8)	-1.2076	4.6	-1.1906	3.8	17.0	2.6	40.73
лт2 (8)	лт3 (8)	2.5895	4.7	2.5911	2.9	1.6	3.7	43.72
лт2 (8)	лт4 (8)	0.7899	4.7	0.7951	3.0	5.2	3.7	47.41
лт2 (8)	лт1 (8)	-2.5448	5.5	-2.5521	3.1	-7.3	4.6	76.93
лт2 (8)	лт5 (8)	-3.1160	4.9	-3.1159	3.4	0.2	3.4	52.92
лт4 (8)	лт6 (8)	0.3082	4.3	0.3144	2.8	6.2	3.3	22.44
лт4 (8)	лт2 (8)	-0.7880	4.7	-0.7951	3.0	-7.1	3.7	47.42
лт9 (8)	лт6 (8)	1.7673	4.8	1.7617	3.1	-5.6	3.7	49.52
лт9 (8)	лт10 (8)	-0.7217	4.7	-0.7093	3.0	12.4	3.6	44.92
лт8 (8)	лт6 (8)	-3.4620	4.7	-3.4597	3.3	2.3	3.3	45.84
лт3 (8)	лт11 (8)	2.9691	4.7	2.9712	2.9	2.2	3.7	47.60
лт3 (8)	лт2 (8)	-2.5953	4.7	-2.5911	2.9	4.2	3.7	43.72
лт6 (8)	лт7 (8)	3.1839	4.5	3.1837	2.9	-0.2	3.4	35.21
лт6 (8)	лт8 (8)	3.4574	4.7	3.4597	3.3	2.3	3.3	45.84
лт6 (8)	лт9 (8)	-1.7744	4.8	-1.7617	3.1	12.7	3.7	49.52
лт6 (8)	лт4 (8)	-0.3104	4.3	-0.3144	2.8	-4.0	3.3	22.44
лт11 (8)	лт12 (8)	0.9313	4.6	0.9370	2.8	5.7	3.7	42.60
лт11 (8)	лт3 (8)	-2.9761	4.7	-2.9712	2.9	4.8	3.7	47.60
лт11 (8)	пт5 (5)	-0.0985	4.3	-0.1064	3.1	-7.9	2.9	17.53
лт7 (8)	лт12 (8)	2.2113	4.5	2.2061	3.7	-5.2	2.6	34.62
лт7 (8)	лт6 (8)	-3.1887	4.5	-3.1837	2.9	5.0	3.4	35.22
лт14 (8)	лт12 (8)	-2.2492	4.4	-2.2433	3.1	5.9	3.1	31.40
лт12 (8)	лт14 (8)	2.2374	4.4	2.2433	3.1	5.9	3.1	31.41
лт12 (8)	лт13 (8)	0.9993	4.5	1.0019	2.9	2.6	3.5	36.90
лт12 (8)	лт11 (8)	-0.9358	4.6	-0.9370	2.8	-1.1	3.7	42.59
лт13 (8)	лт15 (8)	0.6434	4.4	0.6469	2.9	3.5	3.4	31.44
лт13 (8)	лт12 (8)	-1.0033	4.5	-1.0019	2.9	1.3	3.5	36.90
лт15 (8)	пт11 (5)	1.2137	4.4	1.2148	3.6	1.2	2.5	25.82
лт15 (8)	лт13 (8)	-0.6492	4.4	-0.6469	2.9	2.3	3.4	31.44

ОЦЕНКА НА ТОЧНОСТТА

Контролни суми и максимална по абсолютна стойност поправка:
 [pvv]= 2531 [pff. 15]= 2531 |v|max= 17.0

Средна квадратна грешка за единица тежест $M_e = 6.5 [mm]$
 Средната квадратна грешка за измерено превишение

без да е включено влиянието на грешката от измерването
 на височината на инструмента и сигнала е:

- за разстояние 50 метра $m_r = 7.8$
- за разстояние 100 метра $m_r = 15.6$
- за разстояние 1000 метра $m_r = 155.9$

СПИСЪК НА ДАДЕНИТЕ РЕПЕРИ

No	Име (клас)	клас H	H
1	тт41 (5)	5	228.76400
2	пт5 (5)	5	237.47000
3	пт11 (5)	5	241.37700
4	пт14 (5)	5	229.62900
5	пт15 (5)	5	229.17200

СПИСЪК НА НОВИТЕ РЕПЕРИ

No	Име (клас)	клас H	H	mh
1	лт1 (8)	6	229.46192	2.36
2	лт2 (8)	6	232.01406	3.43
3	лт3 (8)	6	234.60517	3.67
4	лт4 (8)	6	232.80914	4.03
5	лт5 (8)	6	228.89819	4.86
6	лт6 (8)	6	233.12354	4.02
7	лт7 (8)	6	236.30726	4.27
8	лт8 (8)	6	236.58322	5.22
9	лт9 (8)	6	231.36184	4.36
10	лт10 (8)	6	230.65256	4.25
11	лт11 (8)	6	237.57640	3.13
12	лт12 (8)	6	238.51335	3.52
13	лт13 (8)	6	239.51527	3.79
14	лт14 (8)	6	240.75667	4.72
15	лт15 (8)	6	240.16216	3.57

Максимална средна квадратна грешка $m_h = 5.22$ в т.лт8 (8) 8

ПОЛЯРНА ГЕОДЕЗИЧЕСКА СНИМКА

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Координатна система - 1970г.

Зона..... 5

Височинна система - Балтийска

Средна квадратна грешка за посока..... 30[cc]

Константи на далекомера..... a=5, b=5, c=0

Точност на центриране на инструмента..... 5[mm]

Точност на центриране на сигнала..... 5[mm]

Средна квадратна грешка за зенитен ъгъл:... 50[cc]

Средна квадратна грешка за превишение:.... 50[mm]

Точност на височината на инструмента:..... 5[mm]

Точност на височината на сигнала:..... 5[mm]

Брой станции с подробни точки:..... 16

Брой измерени подробни точки:..... 795

		Станция: тт41(5) Ih = 1.533					

Име (клас)	X	Y	H	O	V		
пт14(5)	4528098.507	9435296.397	229.629	199.5173	0.0009		
пт14(5)	4528098.507	9435296.397	229.629	199.5183	-0.0000		
пт15(5)	4528136.227	9435204.390	229.172	199.5325	-0.0142		
пт15(5)	4528136.227	9435204.390	229.172	199.5364	-0.0182		
лт1(8)	4528141.147	9435216.638	229.462	199.5103	0.0079		
лт1(8)	4528141.147	9435216.638	229.462	199.5143	0.0040		
тт41(5)	4528141.289	9435178.636	228.764	199.5182			

		Станция: лт1(8) Ih = 1.636					

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy) H(Vh)
пт14(5)	1.445	322.667	99.606	125.296	125.308	0.007	-0.015 -0.001
пт14(5)	1.445	322.666	99.606	125.298	125.310	0.006	-0.017 -0.001
пт15(5)	1.445	312.823	99.210	26.265	26.266	-0.002	-0.020 -0.006
пт15(5)	1.445	312.819	99.210	26.264	26.265	-0.004	-0.019 -0.006
лт1(8)	1.445	300.728	98.972	38.015	38.014	0.005	-0.013 -0.004
лт1(8)	1.445	300.724	98.972	38.013	38.012	0.002	-0.011 -0.004
5	1.445	221.485	100.684	75.838	75.845	4528213.044	9435203.207 228.038
6	1.445	227.920	100.409	76.762	76.772	4528211.040	9435210.709 228.359
7	1.445	226.803	100.519	75.100	75.109	4528210.069	9435208.813 228.240
8	1.445	228.710	100.616	71.471	71.478	4528205.855	9435209.302 228.161
9	1.940	231.407	100.193	64.272	64.281	4528198.134	9435208.648 228.162
10	1.445	236.798	100.836	46.545	46.548	4528180.466	9435203.772 228.241
11	1.445	212.434	99.757	87.538	87.550	4528227.301	9435194.977 229.187
12	2.540	215.822	100.258	87.344	87.356	4528226.122	9435199.482 227.404
13	1.445	215.670	100.426	83.773	83.784	4528222.700	9435198.436 228.292
14	1.445	225.745	100.204	83.968	83.980	4528218.743	9435211.094 228.583
15	1.445	227.067	100.267	83.209	83.221	4528217.358	9435212.387 228.504
16	1.445	227.566	100.354	80.634	80.645	4528214.745	9435211.920 228.404
17	1.445	218.378	100.743	78.430	78.436	4528216.647	9435200.396 227.937
18	1.445	219.912	100.430	80.293	80.303	4528217.881	9435202.766 228.310
19	1.445	213.683	100.270	89.460	89.473	4528228.845	9435197.057 228.473
20	1.445	217.132	100.171	89.054	89.067	4528227.327	9435201.666 228.613
21	1.445	217.147	100.241	85.554	85.566	4528223.940	9435200.780 228.529
22	1.445	228.119	100.076	85.891	85.904	4528219.224	9435214.768 228.750
23	1.445	228.671	100.307	80.719	80.730	4528214.233	9435213.226 228.463
24	1.445	231.943	100.324	77.823	77.834	4528209.810	9435215.554 228.456
25	1.445	233.185	100.531	70.687	70.695	4528202.860	9435213.376 228.263
26	1.445	234.384	100.563	70.981	70.989	4528202.448	9435214.678 228.225
27	1.445	234.797	100.652	63.444	63.450	4528195.743	9435211.205 228.203
28	1.445	235.793	100.686	60.044	60.050	4528192.336	9435210.262 228.205
29	1.445	236.692	100.574	60.146	60.153	4528191.971	9435211.035 228.310
30	1.445	253.844	100.655	37.508	37.512	4528166.377	9435206.524 228.466
31	1.445	256.455	100.910	35.057	35.059	4528163.648	9435205.640 228.351

		Станция: лт1(8) Ih = 1.636					

Име (клас)	X	Y	H	O	V		
тт41(5)	4528141.289	9435178.636	228.764	13.0502	-0.0086		
тт41(5)	4528141.289	9435178.636	228.764	13.0532	-0.0115		
пт15(5)	4528136.227	9435204.390	229.172	13.0651	-0.0235		
пт15(5)	4528136.227	9435204.390	229.172	13.0710	-0.0294		
лт2(8)	4528214.603	9435239.454	232.014	13.0397	0.0020		
лт2(8)	4528214.603	9435239.454	232.014	13.0346	0.0070		
лт1(8)	4528141.147	9435216.638	229.462	13.0416			

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy) H(Vh)
тт41(5)	1.445	287.188	101.499	38.019	38.013	0.005	0.011 0.006
тт41(5)	1.445	287.185	101.499	38.021	38.015	0.007	0.013 0.006
пт15(5)	1.445	262.618	102.311	13.205	13.198	0.004	-0.003 -0.002
пт15(5)	1.445	262.612	102.310	13.205	13.198	0.005	-0.003 -0.002
лт2(8)	1.445	6.133	98.052	76.956	76.929	-0.009	-0.005 0.006
лт2(8)	1.445	6.138	98.052	76.952	76.925	-0.004	-0.010 0.006
38	1.445	354.069	103.567	24.069	24.035	4528162.045	9435204.765 228.305
39	1.445	378.816	103.722	18.026	17.998	4528158.998	9435214.342 228.600
40	1.445	391.754	102.423	32.037	32.019	4528173.075	9435219.047 228.434
41	1.445	394.365	102.010	39.396	39.382	4528180.263	9435221.209 228.409

42	1.445	398.098	101.168	58.360	58.359	4528198.615	9435226.797	228.583
43	1.445	397.214	101.161	58.636	58.635	4528199.023	9435226.042	228.584
44	1.445	397.247	101.075	62.500	62.500	4528202.833	9435226.694	228.598
45	1.445	399.022	99.997	77.971	77.983	4528217.734	9435231.326	229.657
46	1.445	397.966	100.225	76.881	76.892	4528216.892	9435229.866	229.382
47	1.445	396.719	101.203	58.639	58.637	4528199.096	9435225.592	228.545
48	1.445	393.794	101.609	45.183	45.175	4528186.062	9435221.479	228.511
49	1.445	389.590	102.414	33.403	33.384	4528174.502	9435218.017	228.387
50	1.445	384.884	102.629	28.482	28.462	4528169.594	9435215.710	228.477
51	1.445	375.991	103.502	20.496	20.468	4528161.312	9435213.129	228.526
52	1.445	356.583	103.475	24.426	24.393	4528162.816	9435205.435	228.320
53	1.445	354.456	102.783	30.755	30.730	4528167.958	9435201.621	228.309
54	1.445	400.543	100.805	18.338	18.339	4528159.070	9435220.521	229.421
55	1.445	3.307	99.832	24.682	24.686	4528165.023	9435222.907	229.718
56	1.445	3.435	99.523	30.623	30.627	4528170.753	9435224.476	229.882
57	1.445	6.185	98.982	42.688	42.689	4528181.904	9435229.335	230.336
58	1.445	6.324	98.532	54.224	54.218	4528192.875	9435232.877	230.903
59	1.445	6.630	98.136	66.663	66.644	4528204.635	9435236.905	231.605
60	1.445	4.307	97.983	77.895	77.868	4528216.141	9435237.596	232.121
61	1.445	25.417	98.303	51.655	51.644	4528183.651	9435245.973	231.030
62	1.445	35.302	98.118	34.841	34.831	4528166.408	9435240.618	230.683
63	1.445	44.457	98.139	27.196	27.188	4528157.979	9435237.989	230.448
64	1.445	55.044	98.251	36.010	36.002	4528158.448	9435248.209	230.642
65	1.445	43.889	98.096	31.244	31.235	4528160.703	9435240.993	230.587
66	1.445	34.510	97.974	40.422	40.408	4528170.797	9435244.090	230.939
67	1.445	32.569	98.190	51.683	51.670	4528180.113	9435250.570	231.122
68	1.445	103.612	100.229	22.217	22.220	4528135.400	9435238.102	229.573
69	1.445	103.670	99.924	22.162	22.165	4528135.395	9435238.043	229.679
70	1.445	69.573	98.836	28.522	28.522	4528148.839	9435244.102	230.174
71	1.445	69.530	98.440	28.471	28.467	4528148.843	9435244.044	230.351
72	1.445	93.778	99.748	28.020	28.024	4528138.151	9435244.501	229.764
73	1.445	93.840	99.376	28.071	28.074	4528138.118	9435244.547	229.928
74	1.445	106.467	100.257	27.078	27.082	4528132.977	9435242.458	229.544
75	1.445	106.473	99.934	27.125	27.129	4528132.960	9435242.502	229.681

Станция: лт2 (8) Ih = 1.623

Име (клас)	X	Y	H	O	V
лт1 (8)	4528141.147	9435216.638	229.462	123.0836	0.0002
лт1 (8)	4528141.147	9435216.638	229.462	123.0805	0.0033
лт3 (8)	4528250.081	9435264.994	234.605	123.0827	0.0011
лт3 (8)	4528250.081	9435264.994	234.605	123.0886	-0.0048
лт4 (8)	4528196.930	9435283.448	232.809	123.0888	-0.0050
лт4 (8)	4528196.930	9435283.448	232.809	123.0828	0.0010
лт5 (8)	4528249.756	9435199.893	228.898	123.0863	-0.0025
лт5 (8)	4528249.756	9435199.893	228.898	123.0813	0.0025
лт2 (8)	4528214.603	9435239.454	232.014	123.0838	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт1 (8)	1.445	96.089	102.253	76.966	76.927	0.008	0.003	-0.007
лт1 (8)	1.445	96.092	102.253	76.968	76.929	0.009	0.007	-0.007
лт3 (8)	1.445	316.639	96.492	43.783	43.721	-0.005	-0.005	0.002
лт3 (8)	1.445	316.633	96.492	43.783	43.721	-0.008	-0.001	0.002
лт4 (8)	1.445	1.229	99.179	47.408	47.409	-0.004	-0.000	0.005
лт4 (8)	1.445	1.235	99.178	47.408	47.409	0.000	0.002	0.005
лт5 (8)	1.445	223.162	103.958	53.022	52.926	-0.001	0.004	0.000
лт5 (8)	1.445	223.167	103.958	53.018	52.922	-0.001	-0.002	0.000
80	1.445	84.489	102.333	51.892	51.865	4528163.105	9435233.299	230.291
81	1.445	79.574	102.050	52.786	52.767	4528161.883	9435237.252	230.493
82	1.445	66.754	102.169	30.569	30.556	4528184.436	9435244.311	231.151
83	1.445	66.517	101.957	28.091	28.082	4528186.895	9435244.021	231.329
84	1.445	75.238	102.172	28.648	28.636	4528185.977	9435240.209	231.215
85	1.445	51.681	101.614	36.146	36.140	4528181.266	9435253.407	231.276
86	1.445	49.352	100.774	37.332	37.335	4528180.713	9435255.119	231.738
87	1.445	39.412	100.333	32.123	32.127	4528187.891	9435257.305	232.024
88	1.445	35.931	100.149	34.510	34.515	4528186.997	9435260.171	232.111
89	1.445	30.854	100.045	32.755	32.760	4528190.051	9435261.142	232.169
90	1.445	29.170	99.944	34.447	34.452	4528189.395	9435262.938	232.222
91	1.445	36.645	99.980	37.134	37.140	4528184.650	9435261.412	232.204
92	1.445	39.867	100.234	34.874	34.879	4528185.466	9435258.626	232.064
93	1.445	49.157	100.403	40.002	40.007	4528178.339	9435256.351	231.939
94	1.445	51.488	100.635	38.795	38.799	4528178.858	9435254.542	231.805
95	1.445	53.850	101.890	37.673	37.662	4528179.386	9435252.803	231.074
96	1.445	63.037	101.626	42.267	42.260	4528173.344	9435248.594	231.113
97	1.940	201.696	109.414	15.831	15.661	4528220.546	9435224.965	229.365
98	1.445	212.598	110.013	16.388	16.188	4528223.209	9435225.743	229.625
99	1.445	207.715	108.739	23.767	23.547	4528225.556	9435218.609	228.940
100	1.445	221.285	106.737	25.181	25.044	4528230.678	9435220.250	229.532
101	1.445	220.843	106.739	30.932	30.763	4528234.185	9435215.728	228.924
102	1.445	219.875	106.629	33.110	32.936	4528235.179	9435213.737	228.751
103	1.445	269.719	102.159	6.942	6.939	4528221.498	9435238.671	231.957
104	1.445	269.315	100.880	6.932	6.932	4528221.486	9435238.628	232.096
105	1.445	270.909	104.616	4.173	4.163	4528218.747	9435239.062	231.890
106	1.445	269.829	102.236	4.161	4.159	4528218.736	9435238.992	232.046
107	1.445	39.937	108.181	2.585	2.564	4528212.460	9435240.861	231.861
108	1.445	40.902	104.439	2.547	2.541	4528212.458	9435240.816	232.015
109	1.445	50.702	103.632	7.166	7.155	4528208.046	9435242.318	231.783
110	1.445	51.176	102.422	7.156	7.152	4528208.028	9435242.267	231.920
111	1.445	50.545	102.793	9.959	9.951	4528205.494	9435243.459	231.755
112	1.445	50.792	101.977	9.977	9.974	4528205.457	9435243.433	231.882
113	1.445	48.335	101.940	14.061	14.057	4528201.939	9435245.555	231.764
114	1.445	48.544	101.353	14.087	14.086	4528201.893	9435245.526	231.893
115	1.445	47.429	101.747	15.063	15.060	4528201.130	9435246.182	231.779
116	1.445	47.590	101.159	15.092	15.092	4528201.084	9435246.163	231.917
117	1.445	45.298	101.552	16.393	16.391	4528200.193	9435247.264	231.792
118	1.445	45.451	101.004	16.427	16.427	4528200.142	9435247.247	231.933
119	1.445	40.930	101.121	19.862	19.862	4528197.831	9435250.093	231.842
120	1.445	41.039	100.643	19.899	19.901	4528197.780	9435250.085	231.991
121	1.445	38.350	100.994	21.832	21.833	4528196.656	9435251.886	231.851
122	1.445	38.495	100.590	21.848	21.850	4528196.613	9435251.855	231.990

123	1.445	34.004	100.695	25.175	25.177	4528194.932	9435255.169	231.917
124	1.445	34.088	100.334	25.206	25.209	4528194.886	9435255.163	232.060
125	1.445	30.599	100.438	27.862	27.866	4528193.793	9435257.986	232.000
126	1.445	30.524	100.146	28.006	28.010	4528193.707	9435258.106	232.128
127	1.445	26.847	100.226	31.603	31.608	4528192.277	9435261.828	232.080
128	1.445	26.920	99.974	31.653	31.658	4528192.216	9435261.838	232.205
129	1.445	30.300	100.005	32.380	32.385	4528190.519	9435261.104	232.190
130	1.445	36.372	100.088	27.292	27.296	4528192.658	9435255.686	232.154
131	1.445	42.211	100.330	23.512	23.515	4528194.496	9435251.648	232.070
132	1.445	45.741	100.566	21.071	21.073	4528196.006	9435249.366	232.005
133	1.445	49.252	100.765	18.659	18.660	4528197.677	9435247.310	231.968
134	1.445	54.182	101.219	15.806	15.805	4528199.795	9435244.979	231.889
135	1.445	57.779	101.239	13.238	13.237	4528201.959	9435243.373	231.934
136	1.445	63.363	101.806	9.670	9.668	4528205.154	9435241.496	231.918
137	1.445	70.987	102.466	5.615	5.612	4528209.016	9435239.976	231.975
138	1.445	103.436	105.636	1.919	1.912	4528212.855	9435238.680	232.022
139	1.445	234.107	101.907	3.038	3.037	4528216.979	9435237.562	232.101
140	1.445	250.904	101.724	7.300	7.298	4528221.301	9435236.554	231.994
141	1.445	316.165	98.014	17.587	17.581	4528228.947	9435249.619	232.741
142	1.445	316.155	97.393	17.526	17.514	4528228.894	9435249.578	232.910
143	1.445	313.950	98.009	17.112	17.106	4528228.896	9435248.853	232.727
144	1.445	313.969	97.465	17.067	17.056	4528228.851	9435248.830	232.872
145	1.445	312.566	98.077	16.660	16.655	4528228.714	9435248.300	232.695
146	1.445	312.621	97.651	16.617	16.608	4528228.667	9435248.288	232.805
147	1.445	308.924	98.754	14.773	14.772	4528227.547	9435246.572	232.481
148	1.445	309.097	98.189	14.784	14.780	4528227.535	9435246.611	232.613
149	1.445	307.911	99.684	11.620	11.622	4528224.874	9435244.891	232.250
150	1.445	308.082	99.090	11.592	11.593	4528224.834	9435244.905	232.358
151	1.445	310.430	100.270	9.622	9.623	4528222.923	9435244.289	232.151
152	1.445	310.623	99.399	9.610	9.611	4528222.898	9435244.308	232.283
153	1.445	323.969	101.178	7.152	7.152	4528219.889	9435244.271	232.060
154	1.445	324.509	100.034	7.176	7.177	4528219.866	9435244.333	232.188
155	1.445	375.216	102.754	5.876	5.871	4528214.760	9435245.323	231.938
156	1.445	375.398	101.454	5.897	5.896	4528214.744	9435245.348	232.057
157	1.445	14.475	102.541	9.195	9.189	4528209.491	9435247.090	231.825
158	1.445	14.193	101.725	9.223	9.221	4528209.507	9435247.139	231.942
159	1.445	24.229	101.592	13.234	13.232	4528205.650	9435249.197	231.861
160	1.445	24.001	101.252	13.254	13.253	4528205.670	9435249.245	231.931
161	1.445	25.486	101.145	15.884	15.884	4528203.627	9435250.935	231.906
162	1.445	25.260	100.906	15.875	15.876	4528203.673	9435250.968	231.966
163	1.445	24.950	100.791	19.075	19.076	4528201.537	9435253.353	231.955
164	1.445	24.819	100.538	19.092	19.094	4528201.553	9435253.393	232.031
165	1.445	22.625	100.353	23.359	23.362	4528199.234	9435257.049	232.063
166	1.445	22.558	100.012	23.318	23.321	4528199.279	9435257.034	232.188
167	1.445	20.929	100.217	24.298	24.301	4528199.109	9435258.175	232.109
168	1.445	20.914	99.828	24.233	24.237	4528199.155	9435258.129	232.258
169	1.445	19.756	100.130	24.483	24.487	4528199.341	9435258.602	232.142
170	1.445	19.701	99.798	24.426	24.430	4528199.393	9435258.571	232.270
171	1.445	9.214	99.748	23.879	23.882	4528203.000	9435260.328	232.287
172	1.445	9.135	99.365	23.824	23.826	4528203.053	9435260.293	232.430
173	1.445	2.389	99.566	48.802	48.808	4528195.591	9435284.407	232.525
174	1.445	2.298	99.233	48.780	48.784	4528195.664	9435284.411	232.780
175	1.445	398.950	99.046	48.603	48.605	4528198.115	9435285.176	232.921
176	1.445	400.501	99.263	37.714	37.717	4528200.948	9435274.612	232.629
177	1.445	2.539	99.258	25.930	25.932	4528204.445	9435263.314	232.494
178	1.445	3.902	99.412	21.197	21.199	4528205.884	9435258.777	232.388
179	1.445	17.353	99.783	22.256	22.259	4528201.396	9435257.372	232.268
180	1.445	17.478	100.367	17.053	17.055	4528204.457	9435253.163	232.094
181	1.445	15.956	100.572	14.450	14.452	4528206.286	9435251.272	232.062
182	1.445	400.546	101.251	10.031	10.031	4528210.965	9435248.801	231.995
183	1.445	374.313	99.820	7.833	7.834	4528214.923	9435247.281	232.214
184	1.445	336.687	99.415	8.989	8.990	4528219.913	9435246.708	232.275
185	1.445	318.446	97.820	15.664	15.657	4528227.045	9435248.959	232.728
186	1.445	357.896	95.218	12.663	12.629	4528218.320	9435251.524	233.142
187	1.445	375.304	97.695	11.152	11.146	4528214.885	9435250.597	232.596
188	1.445	387.439	97.617	25.364	25.350	4528210.432	9435264.458	233.141
189	1.445	24.938	101.842	13.677	13.673	4528205.240	9435249.418	231.796
190	1.445	25.218	101.724	14.160	14.157	4528204.863	9435249.728	231.809
191	1.445	47.516	102.005	14.570	14.565	4528201.564	9435245.944	231.733
192	1.445	47.929	102.069	14.236	14.231	4528201.822	9435245.712	231.729
193	1.445	25.035	104.091	5.461	5.451	4528210.865	9435243.420	231.841
194	1.445	313.851	98.034	17.636	17.630	4528229.348	9435249.118	232.737

Станция: лт5(8) Ih = 1.633

Име (клас)	X	Y	H	O	V
лт2(8)	4528214.603	9435239.454	232.014	227.8404	0.0010
лт2(8)	4528214.603	9435239.454	232.014	227.8424	-0.0010
лт5(8)	4528249.756	9435199.893	228.898	227.8414	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт2(8)	1.445	318.408	96.481	52.996	52.921	-0.000	0.001	0.000
лт2(8)	1.445	318.406	96.481	52.995	52.920	-0.002	0.001	0.000
203	1.445	370.531	103.832	10.727	10.709	4528239.050	9435200.167	228.441
204	1.445	381.588	103.931	11.337	11.317	4528238.562	9435198.223	228.387
205	1.445	381.065	101.871	21.056	21.050	4528228.911	9435196.958	228.467
206	1.445	374.727	102.942	13.637	13.624	4528236.142	9435199.344	228.456
207	1.445	354.402	101.928	15.668	15.663	4528234.698	9435204.206	228.612
208	1.445	350.692	102.264	14.546	14.539	4528236.035	9435204.703	228.569
209	1.445	325.142	100.588	23.011	23.013	4528232.738	9435215.386	228.874
210	1.445	338.553	102.868	13.328	13.316	4528238.252	9435206.601	228.486

Станция: лт4(8) Ih = 1.624

Име (клас)	X	Y	H	O	V
лт2(8)	4528214.603	9435239.454	232.014	140.0798	-0.0037
лт2(8)	4528214.603	9435239.454	232.014	140.0767	-0.0007
лт6(8)	4528190.953	9435305.077	233.124	140.0695	0.0066
лт6(8)	4528190.953	9435305.077	233.124	140.0654	0.0106
лт4(8)	4528196.930	9435283.448	232.809	140.0760	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт2(8)	1.445	184.238	101.298	47.420	47.416	0.001	0.005	-0.007
лт2(8)	1.445	184.241	101.298	47.419	47.415	-0.001	0.004	-0.007
лт6(8)	1.445	377.094	99.634	22.435	22.437	0.002	0.003	0.006
лт6(8)	1.445	377.098	99.634	22.437	22.439	0.003	0.001	0.006
213	1.445	103.170	101.327	14.699	14.698	4528185.495	9435274.213	232.682
214	1.445	104.515	101.489	13.953	13.951	4528186.264	9435274.455	232.662
215	1.445	61.749	100.769	13.191	13.192	4528183.744	9435283.069	232.829
216	1.445	62.661	100.699	14.068	14.069	4528182.874	9435282.843	232.834
217	1.445	111.883	102.717	12.456	12.447	4528188.404	9435274.380	232.457
218	1.445	111.904	101.821	12.512	12.509	4528188.364	9435274.332	232.630
219	1.445	60.887	102.625	11.310	11.302	4528185.629	9435283.277	232.522
220	1.445	60.844	101.402	11.343	11.342	4528185.589	9435283.284	232.738
221	1.445	24.629	101.056	16.630	16.630	4528182.791	9435292.202	232.712
222	1.445	24.684	100.303	16.684	16.686	4528182.736	9435292.220	232.909
223	1.445	10.510	100.308	23.152	23.155	4528180.407	9435299.669	232.876
224	1.445	10.604	99.836	23.204	23.207	4528180.346	9435299.681	233.048
225	1.445	7.928	100.247	25.867	25.871	4528179.219	9435302.305	232.888
226	1.445	8.109	99.782	25.902	25.906	4528179.142	9435302.280	233.077
227	1.445	8.641	100.331	27.093	27.097	4528178.160	9435302.990	232.847
228	1.445	8.832	99.918	27.065	27.069	4528178.121	9435302.914	233.023
229	1.445	10.361	100.477	27.960	27.963	4528177.022	9435303.084	232.779
230	1.445	10.548	100.032	27.923	27.927	4528176.990	9435303.001	232.974
231	1.445	16.367	100.645	30.224	30.227	4528173.506	9435302.552	232.682
232	1.445	16.406	100.240	30.145	30.149	4528173.555	9435302.489	232.875
233	1.445	20.938	99.900	24.769	24.773	4528176.659	9435297.688	233.027
234	1.445	24.648	99.966	20.930	20.933	4528179.129	9435294.462	232.999
235	1.445	58.345	100.517	14.508	14.510	4528182.425	9435283.807	232.870
236	1.445	63.226	100.222	15.751	15.753	4528181.198	9435282.631	232.933
237	1.445	104.332	101.015	16.221	16.221	4528184.498	9435273.028	232.730
238	1.445	120.393	101.707	16.482	16.479	4528187.343	9435270.045	232.546
239	1.445	204.854	98.848	23.688	23.688	4528212.294	9435265.418	233.417
240	1.445	215.194	97.438	17.183	17.172	4528210.035	9435272.351	233.679
241	1.445	223.989	96.662	18.897	18.874	4528212.876	9435273.351	233.979
242	1.445	244.725	96.128	14.157	14.133	4528210.662	9435280.105	233.849
243	1.445	265.239	96.369	31.006	30.960	4528227.783	9435286.029	234.756
244	1.445	270.923	96.093	30.571	30.518	4528226.994	9435288.694	234.863
245	1.445	274.840	96.371	48.686	48.614	4528244.216	9435294.734	235.762
246	1.445	281.899	95.550	48.156	48.046	4528242.142	9435299.705	236.352
247	1.445	286.784	95.221	48.307	48.178	4528240.883	9435303.177	236.611
248	1.445	282.387	95.615	16.795	16.758	4528212.655	9435289.239	234.144
249	1.445	288.752	95.446	17.148	17.107	4528212.313	9435290.932	234.214
250	1.445	289.300	95.168	15.995	15.951	4528211.213	9435290.550	234.201
251	1.445	305.528	89.167	7.178	7.075	4528202.267	9435288.093	234.204
252	1.445	320.172	66.841	2.483	2.154	4528198.190	9435285.195	234.224
253	1.445	246.614	93.528	6.408	6.376	4528203.167	9435282.124	233.638
254	1.445	366.270	100.156	7.933	7.934	4528196.141	9435291.342	232.969
255	1.445	368.600	99.873	9.921	9.922	4528195.582	9435293.278	233.008
256	1.445	354.503	92.553	10.752	10.680	4528197.839	9435294.089	234.243
257	1.445	349.325	90.938	8.677	8.591	4528198.354	9435291.919	234.219
258	1.445	367.879	92.053	10.035	9.958	4528195.689	9435293.328	234.238
259	1.445	364.613	90.068	7.991	7.895	4528196.349	9435291.321	234.230

Станция: лт6(8) Ih = 1.655

Име (клас)	X	Y	H	O	V
лт4(8)	4528196.930	9435283.448	232.809	129.7544	-0.0144
лт4(8)	4528196.930	9435283.448	232.809	129.7574	-0.0173
лт7(8)	4528226.042	9435308.010	236.307	129.7344	0.0056
лт7(8)	4528226.042	9435308.010	236.307	129.7364	0.0037
лт8(8)	4528195.304	9435350.706	236.583	129.7366	0.0035
лт8(8)	4528195.304	9435350.706	236.583	129.7435	-0.0035
лт9(8)	4528142.029	9435297.418	231.362	129.7389	0.0012
лт9(8)	4528142.029	9435297.418	231.362	129.7388	0.0012
лт6(8)	4528190.953	9435305.077	233.124	129.7400	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт4(8)	1.445	187.409	101.476	22.449	22.446	0.003	0.007	-0.004
лт4(8)	1.445	187.406	101.476	22.447	22.444	0.005	0.005	-0.004
лт7(8)	1.445	275.575	94.635	35.330	35.209	0.003	-0.003	-0.000
лт7(8)	1.445	275.573	94.635	35.329	35.208	0.004	-0.002	-0.000
лт8(8)	1.445	364.212	95.497	45.946	45.836	0.002	-0.000	0.002
лт8(8)	1.445	364.205	95.497	45.946	45.836	-0.003	0.000	0.002
лт9(8)	1.445	80.147	102.550	49.558	49.524	0.004	0.001	0.013
лт9(8)	1.445	80.147	102.550	49.544	49.510	-0.010	-0.001	0.012
264	1.445	207.466	103.547	3.182	3.178	4528192.707	9435302.426	233.156
265	1.445	225.800	90.797	3.682	3.644	4528193.744	9435302.733	233.864
266	1.445	273.437	87.313	2.096	2.055	4528193.006	9435305.179	233.748
267	1.445	322.709	91.624	2.374	2.354	4528192.553	9435306.804	233.645
268	1.445	351.027	104.649	1.675	1.671	4528191.451	9435306.672	233.211
269	1.445	273.654	91.802	3.476	3.448	4528194.396	9435305.260	233.780
270	1.445	218.749	93.034	7.323	7.280	4528195.978	9435299.808	234.133
271	1.445	28.337	108.557	1.965	1.948	4528189.413	9435306.268	233.070
272	1.445	27.071	106.046	1.902	1.894	4528189.479	9435306.265	233.153
273	1.445	103.775	114.050	1.840	1.796	4528189.401	9435304.174	232.931
274	1.445	104.769	108.217	1.777	1.762	4528189.444	9435304.167	233.105
275	1.445	132.877	110.857	2.445	2.410	4528189.618	9435303.070	232.919
276	1.445	133.250	106.553	2.378	2.366	4528189.654	9435303.099	233.089
277	1.445	176.644	104.154	8.977	8.959	4528191.850	9435296.162	232.748
278	1.445	177.211	102.456	8.968	8.963	4528191.930	9435296.167	232.988
279	1.445	78.989	102.340	21.537	21.526	4528169.630	9435302.134	232.542
280	1.445	79.158	101.828	21.491	21.485	4528169.678	9435302.083	232.717
281	1.445	78.196	102.586	23.823	23.807	4528167.331	9435302.117	232.366
282	1.445	78.296	101.984	23.865	23.857	4528167.286	9435302.073	232.590
283	1.445	75.895	102.660	26.318	26.299	4528164.757	9435302.752	232.234
284	1.445	76.057	102.073	26.324	26.314	4528164.748	9435302.684	232.477
285	1.445	73.159	102.672	28.796	28.775	4528162.208	9435303.767	232.125
286	1.445	73.263	102.223	28.803	28.790	4528162.196	9435303.719	232.328
287	1.445	70.124	102.566	31.618	31.597	4528159.356	9435305.144	232.060

288	1.445	70.277	102.157	31.677	31.664	4528159.290	9435305.068	232.261
289	1.445	69.195	102.471	34.054	34.033	4528156.925	9435305.646	232.012
290	1.445	69.289	102.212	34.045	34.030	4528156.928	9435305.596	232.151
291	1.445	71.662	102.541	38.754	38.729	4528152.234	9435304.224	231.787
292	1.445	71.769	102.180	38.735	38.718	4528152.246	9435304.159	232.008
293	1.445	74.403	102.513	45.222	45.194	4528145.856	9435302.138	231.549
294	1.445	74.405	102.243	45.217	45.196	4528145.853	9435302.136	231.741
295	1.445	82.596	101.793	25.312	25.306	4528166.121	9435300.204	232.621
296	1.445	92.599	101.787	25.544	25.538	4528166.972	9435296.298	232.617
297	1.445	93.478	101.859	23.554	23.547	4528168.955	9435296.678	232.646
298	1.445	59.978	102.297	35.053	35.035	4528156.374	9435310.711	232.069
299	1.445	59.856	102.076	35.051	35.038	4528156.383	9435310.777	232.191
300	1.445	67.641	102.189	46.464	46.443	4528144.549	9435306.987	231.736
301	1.445	67.579	101.984	46.471	46.455	4528144.539	9435307.032	231.886
302	1.445	68.796	102.228	48.502	48.480	4528142.487	9435306.191	231.637
303	1.445	68.744	101.983	48.531	48.515	4528142.452	9435306.232	231.822
304	1.445	69.911	102.246	49.983	49.959	4528140.995	9435305.351	231.571
305	1.445	69.837	101.966	50.028	50.012	4528140.943	9435305.409	231.789
306	1.445	68.013	101.959	58.672	58.653	4528132.337	9435307.146	231.529
307	1.445	67.980	101.910	55.109	55.092	4528135.896	9435307.049	231.681
308	1.445	62.446	101.880	44.797	44.784	4528146.506	9435310.560	232.011
309	1.445	60.459	101.748	45.348	45.338	4528146.152	9435312.029	232.089
310	1.445	56.989	101.758	40.943	40.934	4528150.906	9435313.548	232.203
311	1.445	55.443	101.864	39.719	39.708	4528152.316	9435314.235	232.171
312	1.445	52.780	101.816	37.309	37.299	4528155.051	9435315.190	232.270
313	1.445	49.393	101.737	42.463	42.454	4528150.760	9435318.744	232.175
314	1.445	47.421	101.627	45.111	45.103	4528148.722	9435320.913	232.181

Станция: лт9(8) Ih = 1.668

Име (клас)	X	Y	H	O	V
лт6(8)	4528190.953	9435305.077	233.124	274.0669	0.0029
лт6(8)	4528190.953	9435305.077	233.124	274.0699	-0.0001
лт10(8)	4528155.765	9435254.650	230.653	274.0730	-0.0032
лт10(8)	4528155.765	9435254.650	230.653	274.0700	-0.0001
лт9(8)	4528142.029	9435297.418	231.362	274.0698	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт6(8)	1.445	135.819	98.016	49.542	49.524	-0.003	-0.003	-0.006
лт6(8)	1.445	135.816	98.015	49.544	49.526	-0.006	-0.001	-0.006
лт10(8)	1.445	45.711	101.339	44.925	44.920	0.002	0.002	0.012
лт10(8)	1.445	45.714	101.339	44.924	44.919	0.000	0.000	0.012
323	1.445	150.626	97.721	18.039	18.030	4528158.720	9435304.238	232.231
324	1.445	130.966	97.850	18.135	18.127	4528160.100	9435298.850	232.197
325	1.445	110.020	98.717	20.204	20.203	4528161.605	9435292.421	231.992
326	1.445	110.075	98.725	20.836	20.835	4528162.222	9435292.282	232.002
327	1.445	105.478	98.834	21.795	21.795	4528162.709	9435290.536	231.984
328	1.445	110.186	98.292	24.652	24.647	4528165.926	9435291.384	232.246
329	1.445	104.549	98.817	19.667	19.667	4528160.597	9435290.936	231.950
330	1.445	109.662	98.742	18.602	18.601	4528160.027	9435292.716	231.952
331	1.445	110.138	98.721	18.884	18.883	4528160.334	9435292.781	231.964
332	1.445	130.433	98.448	16.832	16.830	4528158.817	9435298.607	231.995
333	1.445	124.769	99.546	10.906	10.907	4528152.935	9435297.219	231.663
334	1.445	99.221	100.950	13.605	13.606	4528154.455	9435291.875	231.382
335	1.445	99.368	101.018	14.135	14.135	4528154.952	9435291.689	231.359
336	1.445	99.098	101.056	14.294	14.294	4528155.073	9435291.570	231.348
337	1.445	92.552	102.166	15.645	15.638	4528155.567	9435289.589	231.053
338	1.445	86.053	102.433	14.393	14.385	4528153.683	9435288.985	231.035
339	1.445	92.628	101.094	12.729	12.729	4528153.056	9435291.059	231.366
340	1.445	95.464	101.021	12.725	12.725	4528153.325	9435291.558	231.381
341	1.445	122.752	99.814	9.735	9.736	4528151.754	9435296.932	231.613
342	1.445	109.006	102.161	5.700	5.698	4528147.527	9435295.921	231.391
343	1.445	70.436	102.195	12.264	12.259	4528149.918	9435288.035	231.162
344	1.445	120.697	101.836	5.180	5.179	4528147.191	9435296.992	231.435
345	1.445	134.815	98.351	16.648	16.645	4528158.513	9435299.733	232.016
346	1.445	241.893	100.218	7.400	7.401	4528140.193	9435304.587	231.560
347	1.445	242.050	98.424	7.464	7.463	4528140.160	9435304.643	231.770
348	1.445	257.775	100.694	6.577	6.578	4528138.875	9435303.189	231.513
349	1.445	257.836	99.498	6.616	6.617	4528138.850	9435303.221	231.637
350	1.445	289.634	102.613	5.892	5.888	4528137.073	9435300.596	231.343
351	1.445	289.751	101.678	5.925	5.924	4528137.037	9435300.606	231.429
352	1.445	312.520	103.949	5.870	5.860	4528136.299	9435298.643	231.221
353	1.445	312.508	102.787	5.909	5.904	4528136.256	9435298.653	231.326
354	1.445	332.877	104.245	6.203	6.190	4528135.876	9435296.744	231.172
355	1.445	332.724	103.220	6.238	6.231	4528135.834	9435296.754	231.269
356	1.445	349.303	104.219	6.726	6.712	4528135.765	9435295.008	231.139
357	1.445	348.982	103.560	6.759	6.749	4528135.718	9435295.027	231.207
358	1.445	371.816	104.502	8.056	8.037	4528135.991	9435292.113	231.016
359	1.445	370.943	103.521	8.330	8.319	4528135.705	9435292.014	231.124
360	1.445	9.924	103.345	14.212	14.195	4528138.498	9435283.669	230.838
361	1.445	9.686	102.790	14.245	14.233	4528138.437	9435283.645	230.961
362	1.445	20.060	102.416	19.097	19.086	4528140.272	9435278.413	230.860
363	1.445	19.954	102.017	19.097	19.090	4528140.240	9435278.411	230.980
364	1.445	29.256	102.011	29.468	29.458	4528143.568	9435268.000	230.654
365	1.445	29.194	101.808	29.473	29.466	4528143.539	9435267.991	230.748
366	1.445	32.621	101.825	36.749	36.739	4528145.884	9435260.881	230.532
367	1.445	32.529	101.636	36.732	36.725	4528145.829	9435260.889	230.641
368	1.445	34.483	101.666	44.469	44.460	4528147.985	9435253.358	230.421
369	1.445	34.404	101.574	44.489	44.482	4528147.933	9435253.329	230.485
370	1.445	18.711	101.707	24.678	24.673	4528139.238	9435272.903	230.923
371	1.445	15.929	101.557	25.230	25.226	4528138.083	9435272.502	230.968
372	1.445	6.106	102.431	15.962	15.953	4528137.142	9435282.232	230.975
373	1.445	389.528	102.687	12.804	12.795	4528135.106	9435286.658	231.045
374	1.445	350.128	101.780	11.264	11.261	4528131.572	9435293.240	231.270
375	1.445	350.102	102.126	10.086	10.082	4528132.666	9435293.681	231.248
376	1.445	304.344	101.069	11.021	11.021	4528131.636	9435301.083	231.400
377	1.445	286.239	100.161	12.622	12.624	4528131.781	9435304.788	231.553
378	1.445	281.919	100.205	12.023	12.025	4528132.766	9435305.084	231.546
379	1.445	275.323	100.097	13.955	13.957	4528132.255	9435307.381	231.564
380	1.445	201.591	101.910	3.784	3.783	4528143.441	9435300.927	231.471

381	1.445	200.813	99.665	3.737	3.738	4528143.466	9435300.868	231.605
382	1.445	210.760	104.101	2.803	2.798	4528142.690	9435300.136	231.404
383	1.445	209.621	100.762	2.766	2.766	4528142.730	9435300.094	231.552
384	1.445	307.140	124.131	0.994	0.924	4528141.146	9435297.686	231.217
385	1.445	308.328	115.133	0.880	0.855	4528141.207	9435297.651	231.378
386	1.445	351.949	120.290	1.299	1.234	4528140.897	9435296.927	231.178
387	1.445	352.943	114.894	1.233	1.200	4528140.936	9435296.924	231.299
388	1.445	7.192	108.740	4.194	4.155	4528140.824	9435293.441	231.011
389	1.445	8.123	107.313	4.147	4.120	4528140.892	9435293.458	231.110
390	1.445	13.407	107.946	4.713	4.677	4528141.115	9435292.831	230.998
391	1.445	13.376	106.558	4.619	4.595	4528141.129	9435292.912	231.110
392	1.445	22.091	107.616	5.014	4.979	4528141.729	9435292.448	230.986
393	1.445	22.315	106.117	4.943	4.921	4528141.750	9435292.505	231.111
394	1.445	74.941	105.763	5.556	5.534	4528145.881	9435293.444	231.083
395	1.445	75.148	104.701	5.531	5.517	4528145.882	9435293.469	231.177
396	1.445	398.657	109.645	3.861	3.817	4528140.444	9435293.945	231.002
397	1.445	390.312	105.466	7.076	7.051	4528138.287	9435291.442	230.978

	Станция:		лт10(8)	Ih = 1.633				
Име (клас)	X	Y	H	O	V			
лт1(8)	4528141.147	9435216.638	229.462	262.1147	0.0002			
лт1(8)	4528141.147	9435216.638	229.462	262.1147	0.0002			
лт9(8)	4528142.029	9435297.418	231.362	262.1151	-0.0002			
лт9(8)	4528142.029	9435297.418	231.362	262.1150	-0.0001			
лт10(8)	4528155.765	9435254.650	230.653	262.1149				

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт1(8)	1.445	14.513	102.181	40.749	40.730	0.001	0.003	0.017
лт1(8)	1.445	14.513	102.181	40.751	40.732	0.002	0.005	0.017
лт9(8)	1.445	257.669	99.254	44.918	44.920	0.000	-0.001	-0.005
лт9(8)	1.445	257.669	99.254	44.921	44.923	0.001	-0.004	-0.005
402	1.445	253.163	99.873	33.676	33.681	4528147.760	9435287.366	230.908
403	1.445	253.096	99.625	33.712	33.716	4528147.786	9435287.409	231.039
404	1.445	252.900	99.980	31.036	31.041	4528148.512	9435284.832	230.850
405	1.445	252.683	99.888	30.960	30.965	4528148.632	9435284.782	230.895
406	1.445	252.071	100.141	25.891	25.895	4528150.043	9435279.905	230.783
407	1.445	251.849	99.972	25.910	25.914	4528150.127	9435279.943	230.852
408	1.445	249.498	100.587	16.253	16.255	4528152.817	9435270.635	230.691
409	1.445	249.034	100.548	16.230	16.232	4528152.937	9435270.634	230.701
410	1.445	233.782	103.368	5.231	5.224	4528156.102	9435259.864	230.564
411	1.445	232.782	100.093	5.247	5.248	4528156.185	9435259.881	230.833
412	1.445	276.307	104.594	4.605	4.594	4528153.158	9435258.432	230.509
413	1.445	276.307	103.108	4.533	4.528	4528153.195	9435258.379	230.619
414	1.445	361.156	109.530	2.634	2.605	4528153.332	9435253.719	230.448
415	1.445	398.943	105.688	4.724	4.706	4528153.063	9435250.798	230.419
416	1.445	4.687	104.664	6.132	6.116	4528152.718	9435249.347	230.392
417	1.445	5.428	103.807	6.140	6.130	4528152.774	9435249.300	230.474
418	1.445	5.961	103.494	8.707	8.695	4528151.585	9435247.026	230.363
419	1.445	6.408	102.801	8.735	8.728	4528151.623	9435246.968	230.456
420	1.445	4.385	103.261	10.776	10.763	4528150.359	9435245.343	230.289
421	1.445	4.605	102.808	10.810	10.801	4528150.372	9435245.292	230.364
422	1.445	1.094	103.227	12.549	12.535	4528148.918	9435244.151	230.205
423	1.445	1.340	102.299	12.611	12.605	4528148.920	9435244.066	230.385
424	1.445	393.673	102.605	16.103	16.092	4528145.467	9435242.286	230.182
425	1.445	393.803	102.187	16.124	16.117	4528145.476	9435242.245	230.287
426	1.445	390.706	103.058	18.292	18.274	4528143.429	9435241.169	229.962
427	1.445	390.775	102.756	18.214	18.200	4528143.493	9435241.211	230.052
428	1.445	367.099	102.748	33.354	33.328	4528125.885	9435239.888	229.401
429	1.445	368.366	103.048	29.089	29.060	4528129.973	9435241.262	229.448
430	1.445	368.272	102.796	29.062	29.038	4528129.972	9435241.310	229.565
431	1.445	371.484	103.303	19.720	19.696	4528138.749	9435244.731	229.818
432	1.445	371.334	102.773	19.704	19.688	4528138.733	9435244.775	229.983
433	1.445	374.597	103.584	14.298	14.277	4528143.797	9435246.866	230.036
434	1.445	374.394	102.919	14.293	14.280	4528143.770	9435246.903	230.185
435	1.445	374.927	103.759	11.613	11.594	4528146.079	9435248.278	230.155
436	1.445	374.729	103.135	11.645	11.633	4528146.027	9435248.288	230.267
437	1.445	372.148	103.899	9.958	9.941	4528147.230	9435249.555	230.231
438	1.445	371.995	103.118	9.970	9.960	4528147.201	9435249.566	230.352
439	1.445	365.205	103.762	8.757	8.743	4528147.815	9435251.012	230.323
440	1.445	364.906	102.894	8.786	8.778	4528147.766	9435251.035	230.441
441	1.445	353.496	103.396	8.009	7.999	4528148.006	9435252.709	230.414
442	1.445	353.426	102.937	8.039	8.032	4528147.972	9435252.709	230.470
443	1.445	330.450	101.501	10.292	10.291	4528145.545	9435255.849	230.598
444	1.445	349.929	102.368	9.711	9.706	4528146.233	9435252.825	230.479
445	1.445	361.827	102.643	10.920	10.912	4528145.616	9435250.643	230.387
446	1.445	365.284	102.820	12.267	12.257	4528144.626	9435249.537	230.297
447	1.445	366.479	102.609	14.351	14.341	4528142.846	9435248.423	230.253
448	1.445	365.654	102.767	19.338	19.323	4528138.252	9435246.487	230.000
449	1.940	364.455	101.620	27.665	27.660	4528130.479	9435243.438	229.642
450	1.445	347.048	101.702	26.121	26.116	4528129.920	9435250.905	230.142
451	1.445	347.665	102.249	27.821	27.808	4528128.285	9435250.395	229.858
452	1.445	343.571	102.320	28.049	28.035	4528127.842	9435252.150	229.819
453	1.445	338.104	101.526	20.068	20.065	4528135.700	9435254.581	230.360
454	1.445	327.360	101.108	13.150	13.150	4528142.795	9435256.815	230.612
455	1.445	308.377	100.367	15.929	15.931	4528141.515	9435261.773	230.749
456	1.445	320.605	103.375	6.364	6.356	4528149.642	9435256.354	230.503
457	1.445	6.802	104.139	6.106	6.094	4528152.907	9435249.268	230.444
458	1.445	19.596	104.146	5.216	5.206	4528154.290	9435249.658	230.501
459	1.445	87.684	100.697	7.570	7.571	4528161.102	9435249.280	230.758
460	1.445	160.812	102.216	3.596	3.594	4528159.129	9435255.917	230.715
461	1.445	160.709	96.767	22.005	21.980	4528176.348	9435262.363	231.958
462	1.445	181.333	96.612	23.102	23.073	4528173.670	9435269.203	232.069
463	1.445	204.968	97.261	29.354	29.331	4528170.264	9435280.147	232.103
464	1.445	218.625	97.581	37.769	37.747	4528167.012	9435290.683	232.275
465	1.445	225.654	98.204	36.323	36.314	4528162.699	9435290.296	231.865
466	1.445	215.334	97.752	27.880	27.867	4528165.431	9435280.787	231.825
467	1.445	174.025	97.126	17.503	17.488	4528170.510	9435264.053	231.630
468	1.445	220.843	97.242	33.837	33.810	4528164.708	9435287.256	232.306
469	1.445	213.628	97.090	28.295	28.270	4528166.278	9435280.893	232.134

470	1.445	191.741	96.415	21.078	21.048	4528169.720	9435270.407	232.027
471	1.445	171.742	97.192	16.712	16.698	4528170.157	9435263.118	231.577
472	1.445	197.381	99.453	7.080	7.081	4528159.972	9435260.346	230.901

Станция: лт3(8) Ih = 1.662

Име (клас)	X	Y	H	O	V
лт2(8)	4528214.603	9435239.454	232.014	161.0316	0.0026
лт2(8)	4528214.603	9435239.454	232.014	161.0286	0.0057
лт11(8)	4528262.921	9435310.826	237.576	161.0358	-0.0016
лт11(8)	4528262.921	9435310.826	237.576	161.0398	-0.0056
лт3(8)	4528250.081	9435264.994	234.605	161.0342	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт2(8)	1.445	78.690	104.090	43.807	43.722	0.005	0.006	0.004
лт2(8)	1.445	78.693	104.090	43.806	43.721	0.003	0.007	0.004
лт11(8)	1.445	321.575	96.324	47.679	47.605	-0.004	-0.008	0.002
лт11(8)	1.445	321.571	96.324	47.677	47.603	-0.006	-0.005	0.002
477	1.445	67.166	105.214	23.892	23.815	4528228.564	9435254.786	232.868
478	1.445	67.149	104.771	23.927	23.863	4528228.518	9435254.771	233.031
479	1.445	48.086	104.625	22.571	22.515	4528227.797	9435261.779	233.184
480	1.445	48.073	104.249	22.609	22.562	4528227.749	9435261.777	233.314
481	1.445	42.291	104.448	22.291	22.240	4528227.871	9435263.833	233.266
482	1.445	42.292	104.030	22.334	22.293	4528227.819	9435263.829	233.409
483	1.445	36.071	103.979	21.894	21.855	4528228.249	9435265.987	233.455
484	1.445	36.073	103.821	21.941	21.905	4528228.199	9435265.989	233.506
485	1.445	32.133	103.927	21.549	21.511	4528228.693	9435267.298	233.494
486	1.445	32.196	103.655	21.602	21.570	4528228.633	9435267.283	233.583
487	1.445	28.271	103.809	21.069	21.034	4528229.343	9435268.511	233.562
488	1.445	28.271	103.444	21.114	21.086	4528229.291	9435268.519	233.681
489	1.445	21.385	103.615	19.681	19.652	4528231.173	9435270.352	233.705
490	1.445	21.344	103.169	19.697	19.676	4528231.154	9435270.371	233.842
491	1.445	13.553	103.391	18.322	18.299	4528233.221	9435272.106	233.847
492	1.445	13.519	102.834	18.364	18.349	4528233.179	9435272.134	234.005
493	1.445	5.769	103.006	17.260	17.243	4528235.129	9435273.583	234.008
494	1.445	5.713	102.428	17.286	17.276	4528235.108	9435273.613	234.163
495	1.445	1.633	102.627	16.697	16.685	4528236.183	9435274.227	234.133
496	1.445	1.573	102.005	16.736	16.730	4528236.155	9435274.265	234.295
497	1.445	374.942	101.697	13.845	13.842	4528242.668	9435276.684	234.453
498	1.445	374.828	101.068	13.881	13.881	4528242.668	9435276.730	234.589
499	1.445	344.228	99.734	13.988	13.990	4528248.926	9435278.936	234.881
500	1.445	344.228	99.191	14.054	14.055	4528248.920	9435279.001	235.001
501	1.445	334.079	99.234	14.962	14.963	4528251.228	9435279.913	235.002
502	1.445	334.218	98.612	15.003	15.002	4528251.199	9435279.954	235.149
503	1.445	323.945	98.428	17.032	17.029	4528254.062	9435281.551	235.243
504	1.445	324.014	97.999	17.109	17.103	4528254.061	9435281.627	235.360
505	1.445	313.732	97.811	22.154	22.144	4528258.630	9435285.421	235.584
506	1.445	313.860	97.456	22.216	22.202	4528258.611	9435285.491	235.710
507	1.445	305.855	97.077	30.983	30.955	4528265.465	9435291.855	236.244
508	1.445	305.898	96.855	31.005	30.972	4528265.455	9435291.880	236.353
509	1.445	302.311	96.774	37.641	37.598	4528270.553	9435296.530	236.729
510	1.445	302.365	96.651	37.650	37.604	4528270.529	9435296.552	236.802
511	1.445	301.684	96.656	41.301	41.250	4528272.881	9435299.370	236.991
512	1.445	301.734	96.408	41.285	41.225	4528272.840	9435299.368	237.150
513	1.445	316.930	96.225	45.123	45.050	4528265.365	9435307.372	237.496
514	1.445	303.882	96.437	43.589	43.527	4528272.873	9435302.077	237.261
515	1.445	307.515	96.571	35.674	35.628	4528266.975	9435296.361	236.743
516	1.445	312.906	96.732	28.481	28.448	4528261.403	9435291.091	236.284
517	1.445	319.909	97.208	22.798	22.779	4528256.798	9435286.760	235.822
518	1.445	333.757	98.330	17.311	17.308	4528251.495	9435282.243	235.276
519	1.445	365.891	100.182	15.768	15.770	4528243.608	9435279.374	234.777
520	1.445	365.321	100.045	17.146	17.149	4528243.183	9435280.694	234.810
521	1.445	339.366	98.559	17.939	17.937	4528249.968	9435282.930	235.228
522	1.445	341.903	97.344	21.015	21.000	4528249.112	9435285.971	235.699
523	1.445	322.305	96.626	24.229	24.199	4528256.342	9435288.368	236.106
524	1.445	325.943	96.296	26.674	26.633	4528255.491	9435291.071	236.373
525	1.445	316.328	96.587	29.691	29.653	4528260.404	9435292.791	236.413
526	1.445	321.632	96.504	29.934	29.893	4528258.120	9435293.786	236.465
527	1.445	328.165	96.283	28.054	28.010	4528254.810	9435292.602	236.459
528	1.445	328.147	96.851	24.691	24.664	4528254.252	9435289.303	236.043
529	1.445	345.386	97.191	22.213	22.195	4528247.846	9435287.076	235.802
530	1.445	345.647	98.884	19.144	19.144	4528248.075	9435284.032	235.158
531	1.445	370.108	99.890	18.833	18.836	4528241.230	9435281.620	234.855
532	1.445	383.340	100.648	18.943	18.945	4528237.919	9435279.520	234.629
533	1.445	400.351	101.091	23.199	23.199	4528231.020	9435278.218	234.425
534	1.445	6.253	101.763	21.229	21.224	4528231.598	9435275.426	234.234
535	1.445	6.792	102.166	21.285	21.276	4528231.465	9435275.294	234.098
536	1.445	19.980	102.314	26.370	26.357	4528224.888	9435272.738	233.864
537	1.445	30.912	102.691	27.852	27.831	4528222.472	9435268.505	233.645
538	1.445	32.528	102.584	28.982	28.962	4528221.266	9435267.918	233.646
539	1.445	39.047	102.982	27.850	27.824	4528222.257	9435264.958	233.518
540	1.445	38.930	103.170	26.591	26.562	4528223.519	9435265.009	233.499
541	1.445	48.226	103.699	25.589	25.550	4528224.801	9435261.290	233.336
542	1.445	56.701	104.016	25.266	25.220	4528225.834	9435258.058	233.229
543	1.445	66.603	104.368	25.528	25.472	4528226.972	9435254.280	233.072
544	1.445	66.455	104.038	26.929	26.879	4528225.669	9435253.745	233.115
545	1.445	23.181	102.763	23.937	23.918	4528226.894	9435270.864	233.784

Станция: лт11(8) Ih = 1.607

Име (клас)	X	Y	H	O	V
пт5(5)	4528280.433	9435310.685	237.470	370.9689	0.0076
пт5(5)	4528280.433	9435310.685	237.470	370.9759	0.0006
лт3(8)	4528250.081	9435264.994	234.605	370.9768	-0.0002
лт3(8)	4528250.081	9435264.994	234.605	370.9787	-0.0022
лт12(8)	4528233.665	9435341.775	238.513	370.9763	0.0002
лт12(8)	4528233.665	9435341.775	238.513	370.9753	0.0012
лт11(8)	4528262.921	9435310.826	237.576	370.9765	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
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пт5(5)	1.445	28.520	100.946	17.531	17.531	-0.018	-0.002	-0.008
пт5(5)	1.445	28.513	100.946	17.531	17.531	-0.018	0.000	-0.008
лт3(8)	1.445	311.634	104.191	47.700	47.602	0.002	0.005	0.005
лт3(8)	1.445	311.632	104.191	47.699	47.601	0.003	0.004	0.005
лт12(8)	1.445	177.234	98.851	42.599	42.597	0.006	-0.006	0.006
лт12(8)	1.445	177.235	98.851	42.596	42.594	0.004	-0.004	0.006
550	1.445	264.556	107.260	8.420	8.367	4528255.824	9435306.395	236.780
551	1.445	262.259	105.878	10.188	10.146	4528254.126	9435305.766	236.799
552	1.445	227.969	104.349	10.693	10.670	4528252.253	9435311.002	237.009
553	1.445	210.662	100.891	9.332	9.332	4528253.974	9435313.480	237.608
554	1.445	204.423	99.887	9.890	9.891	4528253.759	9435314.554	237.756
555	1.445	210.141	99.915	14.023	14.025	4528249.508	9435314.925	237.757
556	1.445	230.605	102.578	12.701	12.692	4528250.232	9435310.510	237.224
557	1.445	231.464	103.511	12.624	12.607	4528250.323	9435310.342	237.043
558	1.445	248.262	104.434	12.111	12.083	4528251.385	9435307.229	236.896
559	1.445	248.217	105.279	10.724	10.689	4528252.714	9435307.652	236.850
560	1.445	271.894	105.205	11.387	11.351	4528254.048	9435303.747	236.808
561	1.445	286.443	104.532	12.866	12.835	4528254.962	9435300.756	236.823
562	1.445	288.354	105.145	12.290	12.252	4528255.615	9435300.990	236.746
563	1.445	119.047	98.979	17.550	17.550	4528265.660	9435328.161	238.020
564	1.445	104.869	98.930	19.768	19.768	4528270.243	9435329.188	238.071
565	1.445	95.036	99.025	18.278	18.279	4528272.222	9435326.561	238.018
566	2.540	74.986	97.069	30.469	30.441	4528285.767	9435330.943	238.046
567	1.445	55.422	99.824	19.080	19.083	4528280.386	9435318.514	237.791
568	1.445	53.704	99.381	19.352	19.354	4528280.838	9435318.142	237.927
569	1.445	60.435	97.748	24.698	24.686	4528284.662	9435322.518	238.612
570	1.445	64.607	96.455	29.497	29.456	4528287.894	9435326.446	239.380
571	2.540	65.712	97.097	29.147	29.121	4528287.338	9435326.694	237.972
574	1.445	209.615	99.661	19.787	19.790	4528244.044	9435316.766	237.844
575	1.445	201.087	99.415	22.376	22.378	4528242.663	9435320.334	237.944
576	1.445	195.830	99.366	25.746	25.749	4528240.594	9435323.651	237.995
577	1.445	202.638	99.515	23.164	23.167	4528241.715	9435320.155	237.915
578	1.445	211.661	99.280	20.512	20.514	4528243.165	9435316.351	237.970
579	1.445	221.981	100.298	18.815	18.818	4528244.218	9435312.903	237.650

Станция: лт12(8) Ih = 1.597

Име (клас)	X	Y	H	O	V
лт11(8)	4528262.921	9435310.826	237.576	69.3583	-0.0002
лт11(8)	4528262.921	9435310.826	237.576	69.3572	0.0009
лт13(8)	4528219.987	9435376.039	239.515	69.3575	0.0006
лт13(8)	4528219.987	9435376.039	239.515	69.3595	-0.0014
лт14(8)	4528255.188	9435364.643	240.757	69.3556	0.0025
лт14(8)	4528255.188	9435364.643	240.757	69.3606	-0.0025
лт12(8)	4528233.665	9435341.775	238.513	69.3581	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт11(8)	1.445	278.852	101.626	42.603	42.594	-0.004	0.004	-0.001
лт11(8)	1.445	278.853	101.626	42.602	42.593	-0.004	0.003	-0.001
лт13(8)	1.445	54.822	98.538	36.907	36.901	0.003	-0.007	0.003
лт13(8)	1.445	54.820	98.538	36.908	36.902	0.003	-0.009	0.003
лт14(8)	1.445	382.573	95.779	31.472	31.406	-0.001	-0.002	0.006
лт14(8)	1.445	382.568	95.779	31.470	31.404	-0.001	0.001	0.006
584	1.445	174.635	109.764	5.275	5.214	4528229.647	9435338.452	237.859
585	1.940	96.192	102.058	7.597	7.594	4528227.156	9435345.687	237.925
586	1.445	84.012	99.609	6.660	6.661	4528228.712	9435346.229	238.706
587	1.445	73.659	99.243	9.619	9.620	4528227.648	9435349.281	238.780
588	1.940	88.634	101.215	10.773	10.773	4528225.153	9435348.378	237.965
589	1.445	73.538	102.212	17.696	17.688	4528222.628	9435355.597	238.051
590	1.445	82.273	102.058	18.723	18.716	4528220.096	9435354.666	238.060
591	1.445	87.013	102.688	15.280	15.269	4528221.843	9435351.439	238.020
592	1.445	167.675	107.171	6.781	6.739	4528228.034	9435338.072	237.903
593	1.445	178.741	100.735	3.819	3.819	4528230.885	9435339.156	238.621
594	1.445	173.716	100.642	4.886	4.886	4528229.855	9435338.715	238.616
595	1.445	95.655	99.760	7.269	7.270	4528227.465	9435345.572	238.693
596	1.445	86.607	99.019	10.777	10.777	4528225.364	9435348.649	238.831
597	1.445	72.482	99.094	17.593	17.594	4528222.916	9435355.704	238.916
598	1.445	193.429	107.695	6.123	6.079	4528230.310	9435336.705	237.927
599	1.445	174.383	105.823	10.606	10.563	4528225.498	9435335.075	237.697
600	1.445	188.062	105.295	11.709	11.670	4528226.428	9435332.619	237.693
601	1.445	176.667	104.804	12.648	12.614	4528224.206	9435333.429	237.712
602	1.445	207.130	103.694	7.102	7.091	4528231.105	9435335.162	238.253
603	1.445	219.236	102.913	7.863	7.856	4528232.265	9435334.044	238.306

Станция: лт14(8) Ih = 1.563

Име (клас)	X	Y	H	O	V
лт12(8)	4528233.665	9435341.775	238.513	206.2615	-0.0005
лт12(8)	4528233.665	9435341.775	238.513	206.2605	0.0005
лт14(8)	4528255.188	9435364.643	240.757	206.2610	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт12(8)	1.445	45.667	104.791	31.490	31.404	0.000	-0.000	0.006
лт12(8)	1.445	45.668	104.791	31.488	31.402	-0.001	-0.001	0.006
610	1.445	6.378	104.587	13.732	13.698	4528241.759	9435361.942	239.886
611	1.445	12.653	105.128	13.663	13.621	4528242.164	9435360.656	239.775
612	1.445	10.446	103.432	5.106	5.099	4528250.263	9435363.320	240.600
613	1.445	9.991	100.909	4.768	4.768	4528250.574	9435363.439	240.807
614	1.445	1.595	103.433	1.531	1.529	4528253.671	9435364.455	240.792
615	1.445	66.010	103.691	2.745	2.741	4528254.032	9435362.158	240.716
616	1.445	72.680	103.506	4.280	4.274	4528253.800	9435360.601	240.639
617	1.445	67.935	104.085	7.044	7.031	4528252.416	9435358.182	240.423
618	1.445	63.420	104.733	10.294	10.267	4528250.481	9435355.519	240.110
619	1.445	56.858	105.069	15.452	15.405	4528246.754	9435351.752	239.646
620	1.445	5.825	104.378	12.385	12.358	4528243.053	9435362.311	240.024
621	1.445	395.598	102.559	5.327	5.323	4528249.867	9435364.488	240.661
622	1.445	393.702	100.081	4.894	4.895	4528250.293	9435364.646	240.868
623	1.445	352.761	98.907	8.073	8.073	4528248.731	9435369.488	241.013
624	1.445	341.523	99.254	7.405	7.406	4528250.137	9435370.059	240.961
625	1.445	331.891	99.017	11.137	11.137	4528248.906	9435373.840	241.047

626	1.445	327.849	99.139	14.260	14.261	4528247.908	9435376.906	241.068
627	1.445	324.823	99.216	18.182	18.183	4528246.658	9435380.702	241.099
628	1.445	324.604	99.246	21.631	21.633	4528245.106	9435383.783	241.131
629	1.445	323.772	99.394	28.608	28.611	4528242.186	9435390.129	241.147
630	1.445	321.191	99.336	28.855	28.858	4528243.126	9435390.859	241.176
631	1.445	320.553	99.309	32.292	32.295	4528241.984	9435394.116	241.225
632	1.445	320.449	99.266	35.945	35.948	4528240.545	9435397.474	241.289
633	1.445	320.379	99.065	39.721	39.723	4528239.047	9435400.939	241.458
634	1.445	319.499	99.062	39.757	39.759	4528239.536	9435401.191	241.461
635	1.445	318.652	98.733	46.880	46.878	4528237.308	9435407.977	241.808
636	1.445	316.749	98.707	47.099	47.096	4528238.534	9435408.697	241.831
637	1.445	316.137	98.596	49.333	49.328	4528238.189	9435410.950	241.963
638	1.445	313.865	98.645	50.420	50.416	4528239.514	9435412.561	241.948
639	1.445	313.796	98.662	60.995	60.991	4528236.289	9435422.632	242.157
640	2.540	305.704	97.936	67.291	67.266	4528242.620	9435430.725	241.961
641	1.445	304.540	98.786	59.869	59.867	4528245.080	9435423.651	242.017
642	1.445	301.192	98.685	46.110	46.107	4528249.803	9435410.435	241.827
643	1.445	300.239	99.034	46.220	46.222	4528250.477	9435410.624	241.576
644	1.445	288.112	99.160	26.338	26.340	4528257.513	9435390.880	241.222
645	1.445	274.232	97.048	29.923	29.895	4528264.206	9435393.146	242.262
646	1.445	243.801	95.333	22.357	22.300	4528270.942	9435380.427	242.512
647	1.445	256.362	95.688	27.474	27.415	4528270.375	9435387.468	242.734
648	0.060	260.404	98.536	34.183	34.179	4528272.279	9435394.243	243.046
649	1.445	249.748	95.431	30.245	30.172	4528274.417	9435387.894	243.044
650	1.445	231.333	94.819	26.696	26.612	4528277.293	9435379.461	243.045
651	1.445	226.396	94.460	22.640	22.558	4528274.842	9435375.714	242.842
652	1.445	229.330	94.160	19.371	19.292	4528271.543	9435374.876	242.649
653	1.445	233.729	94.558	19.796	19.727	4528271.149	9435376.236	242.565
654	1.445	238.208	95.292	15.457	15.417	4528266.994	9435374.558	242.017
655	1.445	237.957	94.929	15.396	15.349	4528266.982	9435374.468	242.100
656	1.445	255.182	98.234	8.775	8.773	4528260.183	9435371.856	241.118
657	1.445	254.643	97.602	8.708	8.703	4528260.203	9435371.756	241.203
658	1.445	256.422	98.985	8.165	8.165	4528259.705	9435371.445	241.005
659	1.445	255.979	98.072	8.154	8.151	4528259.745	9435371.402	241.122
660	1.445	252.027	99.144	7.751	7.751	4528259.911	9435370.790	240.979
661	1.445	251.755	97.970	7.837	7.834	4528259.988	9435370.835	241.125
662	1.445	246.562	99.607	8.007	8.008	4528260.594	9435370.551	240.924
663	1.445	247.025	97.753	8.109	8.105	4528260.616	9435370.663	241.161
664	1.445	239.899	99.445	9.913	9.914	4528262.608	9435371.218	240.961
665	1.445	240.427	95.767	9.977	9.956	4528262.585	9435371.308	241.538
666	1.445	228.535	98.982	18.728	18.728	4528271.188	9435374.378	241.174
667	1.445	228.824	95.373	18.868	18.821	4528271.223	9435374.499	242.245
668	1.445	208.475	99.161	14.799	14.800	4528269.593	9435368.039	241.070
669	1.445	175.957	99.455	17.099	17.101	4528271.626	9435359.929	241.021
670	1.445	185.304	99.496	18.856	18.858	4528273.881	9435362.152	241.024
671	1.445	209.591	99.214	18.093	18.094	4528272.724	9435369.102	241.098
672	1.445	225.486	99.037	22.045	22.046	4528274.549	9435375.187	241.208
673	1.445	206.957	99.081	21.937	21.938	4528276.655	9435369.166	241.191
674	1.445	177.750	99.138	25.644	25.645	4528280.029	9435358.270	241.222
675	1.445	173.880	99.250	23.161	23.163	4528277.233	9435357.534	241.148
676	1.445	158.331	98.784	28.325	28.324	4528279.243	9435349.690	241.416
677	1.445	157.968	98.927	29.438	29.438	4528280.100	9435348.959	241.371
678	1.445	149.595	99.641	35.598	35.603	4528282.569	9435341.887	241.076
679	1.445	145.236	99.826	34.344	34.349	4528280.041	9435340.933	240.969
680	1.445	145.183	100.573	32.647	32.651	4528278.793	9435342.085	240.581
681	2.540	139.308	99.635	31.234	31.238	4528275.687	9435341.072	239.959
682	1.445	129.966	104.013	29.822	29.767	4528271.228	9435339.567	238.996
683	1.445	123.807	104.191	29.263	29.204	4528268.474	9435338.637	238.950
684	1.445	122.325	104.006	30.636	30.580	4528268.463	9435337.095	238.948
685	2.540	112.135	102.867	30.301	30.275	4528263.815	9435335.624	238.416
686	1.445	137.993	101.367	31.021	31.018	4528275.055	9435340.822	240.209
687	1.445	140.976	101.629	27.838	27.833	4528273.997	9435344.127	240.162
688	2.540	133.304	101.960	26.426	26.417	4528270.569	9435343.166	238.966
689	1.445	125.542	104.409	27.786	27.724	4528268.469	9435340.308	238.952
690	1.445	113.109	105.075	27.454	27.371	4528263.388	9435338.530	238.688
691	2.540	101.122	102.863	28.415	28.391	4528258.473	9435336.444	238.502
692	2.540	99.316	103.425	30.108	30.069	4528257.819	9435334.690	238.161
693	1.445	142.042	101.627	27.752	27.747	4528274.278	9435344.507	240.166
694	1.445	130.120	102.538	25.985	25.968	4528269.234	9435342.801	239.839
695	1.445	279.192	99.125	11.306	11.307	4528257.749	9435375.656	241.030

Станция: лт13(8) Ih = 1.627

Име (клас)	X	Y	H	O	V
лт12(8)	4528233.665	9435341.775	238.513	340.1165	-0.0012
лт12(8)	4528233.665	9435341.775	238.513	340.1174	-0.0022
лт15(8)	4528205.308	9435403.834	240.162	340.1115	0.0038
лт15(8)	4528205.308	9435403.834	240.162	340.1144	0.0008
лт13(8)	4528219.987	9435376.039	239.515	340.1152	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт12(8)	1.445	384.063	102.045	36.919	36.904	-0.003	0.010	0.001
лт12(8)	1.445	384.062	102.045	36.914	36.899	-0.001	0.006	0.001
лт15(8)	1.445	190.820	99.066	31.444	31.444	0.007	-0.009	0.004
лт15(8)	1.445	190.817	99.066	31.443	31.443	0.005	-0.008	0.004
698	1.445	384.205	102.131	36.739	36.724	4528233.677	9435341.962	238.468
699	1.445	384.098	102.042	36.730	36.717	4528233.617	9435341.946	238.519
700	1.445	382.689	102.230	30.291	30.277	4528230.602	9435347.684	238.637
701	1.445	382.579	102.117	30.307	30.295	4528230.559	9435347.649	238.690
702	1.445	382.149	102.478	23.353	23.339	4528227.983	9435354.113	238.789
703	1.445	381.993	102.357	23.373	23.360	4528227.937	9435354.073	238.832
704	1.445	382.253	102.934	18.263	18.246	4528226.267	9435358.907	238.856
705	1.445	382.039	102.564	18.255	18.243	4528226.208	9435358.889	238.962
706	1.445	383.746	104.643	6.833	6.816	4528222.482	9435369.696	239.199
707	1.445	383.219	103.574	6.831	6.821	4528222.431	9435369.671	239.314
708	1.445	179.464	100.258	5.700	5.701	4528218.261	9435381.472	239.674
709	1.445	180.273	99.444	5.688	5.689	4528218.196	9435381.438	239.747
710	1.445	180.700	99.334	14.334	14.335	4528215.383	9435389.615	239.847
711	1.445	180.879	98.954	14.323	14.323	4528215.348	9435389.590	239.933
712	1.445	181.884	98.971	21.319	21.319	4528212.765	9435396.098	240.042

713	1.445	183.633	99.008	22.723	22.724	4528211.705	9435397.200	240.051
714	1.445	188.522	99.212	24.468	24.470	4528209.347	9435398.074	240.000
715	1.445	193.055	99.583	25.808	25.811	4528207.138	9435398.425	239.866
716	1.445	189.488	100.351	19.385	19.388	4528211.293	9435393.368	239.590
717	1.445	190.093	100.382	17.897	17.899	4528211.808	9435391.961	239.590
718	1.445	189.914	99.732	17.867	17.870	4528211.867	9435391.957	239.773
719	1.445	191.889	99.527	14.577	14.579	4528212.962	9435388.814	239.806
720	1.445	191.928	98.873	14.525	14.525	4528212.981	9435388.762	239.954
721	1.445	180.891	98.956	14.321	14.321	4528215.346	9435389.588	239.932
722	1.445	280.588	104.670	1.858	1.853	4528218.231	9435375.447	239.561
723	1.445	280.675	112.008	2.551	2.506	4528217.613	9435375.235	239.219
724	1.445	362.690	102.923	8.545	8.537	4528220.363	9435367.510	239.305
725	1.445	381.867	103.307	8.162	8.152	4528222.746	9435368.368	239.273
726	1.445	381.849	102.816	14.201	14.189	4528224.786	9435362.686	239.069
727	1.445	371.249	102.309	14.340	14.333	4528222.532	9435361.934	239.177
728	1.445	373.988	101.968	20.096	20.089	4528224.401	9435356.440	239.076
729	1.445	368.787	102.112	13.089	13.084	4528221.810	9435363.083	239.263
730	1.445	363.486	102.601	9.562	9.555	4528220.527	9435366.499	239.307
731	1.445	342.090	103.770	6.614	6.603	4528218.165	9435369.692	239.306
732	1.445	260.061	106.603	4.092	4.071	4528215.916	9435376.028	239.274
733	1.445	250.481	112.161	2.933	2.880	4528217.138	9435376.463	239.140
734	1.445	243.160	101.294	2.835	2.835	4528217.249	9435376.775	239.640
735	1.445	206.499	99.329	6.053	6.054	4528215.940	9435380.541	239.761
736	1.445	206.827	105.683	6.247	6.223	4528215.803	9435380.645	239.140
737	1.445	199.303	103.659	8.886	8.873	4528214.837	9435383.264	239.187
738	1.445	198.702	98.992	8.906	8.906	4528214.886	9435383.340	239.838
739	1.445	193.244	98.782	13.032	13.032	4528213.466	9435387.322	239.947
740	1.445	155.094	97.626	39.210	39.189	4528222.933	9435415.117	241.159
741	1.445	148.386	97.150	31.438	31.411	4528225.630	9435406.939	241.104
742	1.445	137.669	96.909	24.336	24.311	4528228.299	9435398.885	240.878
743	1.445	137.764	97.108	22.598	22.578	4528227.675	9435397.268	240.724
744	1.445	93.875	98.378	14.265	14.263	4528232.264	9435383.297	240.061
745	1.445	27.387	99.425	20.617	20.619	4528237.977	9435365.964	239.884
746	1.445	199.564	106.078	5.981	5.955	4528216.511	9435380.874	239.127
747	1.445	193.607	103.496	8.714	8.702	4528215.590	9435383.548	239.219
748	1.445	181.570	99.371	8.623	8.624	4528217.106	9435384.167	239.782
749	1.445	181.207	99.510	5.609	5.610	4528218.143	9435381.337	239.740

Станция: лт15(8) Ih = 1.436

Име (клас)	X	Y	H	O	V
пт11(5)	4528210.865	9435429.035	241.377	104.3589	0.0060
пт11(5)	4528210.865	9435429.035	241.377	104.3518	0.0130
лт13(8)	4528219.987	9435376.039	239.515	104.3734	-0.0086
лт13(8)	4528219.987	9435376.039	239.515	104.3694	-0.0045
лт15(8)	4528205.308	9435403.834	240.162	104.3648	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
пт11(5)	1.445	381.824	96.988	25.847	25.821	-0.001	-0.015	0.001
пт11(5)	1.445	381.831	96.988	25.847	25.821	0.002	-0.016	0.001
лт13(8)	1.445	226.558	101.297	31.444	31.441	0.000	0.009	0.002
лт13(8)	1.445	226.562	101.297	31.441	31.438	-0.000	0.005	0.002
754	1.445	183.901	104.328	13.766	13.736	4528202.790	9435390.331	239.218
755	1.445	186.615	103.874	14.918	14.893	4528203.205	9435389.091	239.246
756	1.445	200.548	104.119	13.575	13.549	4528206.352	9435390.326	239.275
757	1.445	22.459	99.838	12.976	12.978	4528200.000	9435415.677	240.186
758	1.445	112.771	106.719	1.317	1.310	4528204.045	9435403.486	240.014
759	1.445	31.491	99.960	11.677	11.679	4528199.073	9435413.709	240.161
760	1.445	57.077	101.678	4.788	4.787	4528201.372	9435406.560	240.027
761	1.445	87.566	102.228	8.760	8.756	4528196.622	9435404.941	239.847
762	1.445	97.637	103.147	8.333	8.324	4528196.988	9435403.573	239.741
763	1.445	104.069	103.518	12.061	12.044	4528193.369	9435402.244	239.487
764	1.445	106.925	103.887	15.799	15.772	4528189.783	9435401.052	239.189
765	1.445	108.417	104.103	19.437	19.400	4528186.298	9435399.966	238.901
768	1.445	334.218	96.766	28.658	28.625	4528228.835	9435420.140	241.608

Станция: лт8(8) Ih = 1.538

Име (клас)	X	Y	H	O	V
лт6(8)	4528190.953	9435305.077	233.124	265.9455	-0.0015
лт6(8)	4528190.953	9435305.077	233.124	265.9425	0.0015
лт8(8)	4528195.304	9435350.706	236.583	265.9440	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт6(8)	1.445	28.003	104.928	45.971	45.838	0.001	0.002	0.003
лт6(8)	1.445	28.006	104.928	45.966	45.834	-0.001	-0.003	0.002
771	1.445	257.345	98.502	44.781	44.775	4528179.287	9435392.518	237.730
772	1.445	257.368	98.207	44.826	44.815	4528179.258	9435392.550	237.939
773	1.445	265.639	99.093	44.405	44.407	4528174.166	9435389.759	237.309
774	1.445	265.655	98.824	44.431	44.430	4528174.145	9435389.774	237.497
775	1.445	267.902	99.272	44.112	44.116	4528172.939	9435388.732	237.181
776	1.445	267.902	99.002	44.151	44.152	4528172.921	9435388.764	237.368
777	1.445	271.467	99.538	43.181	43.186	4528171.361	9435386.648	236.990
778	1.445	271.481	99.320	43.201	43.205	4528171.343	9435386.658	237.138
779	1.445	274.381	99.679	41.945	41.951	4528170.473	9435384.518	236.888
780	1.445	274.427	99.495	41.983	41.988	4528170.427	9435384.530	237.009
781	1.445	280.033	99.988	39.247	39.253	4528169.356	9435380.159	236.684
782	1.445	280.056	99.828	39.274	39.280	4528169.328	9435380.170	236.782
783	1.445	283.148	100.144	37.478	37.484	4528169.180	9435377.586	236.592
784	1.445	283.191	99.946	37.511	37.517	4528169.139	9435377.592	236.708
785	1.445	287.099	100.296	34.722	34.727	4528169.603	9435374.060	236.515
786	1.445	287.138	100.074	34.773	34.778	4528169.551	9435374.079	236.636
787	1.445	302.676	101.478	24.966	24.963	4528173.313	9435362.518	236.097
788	1.445	302.791	101.022	24.982	24.983	4528173.274	9435362.488	236.275
789	1.445	254.429	97.823	49.613	49.591	4528179.703	9435397.780	238.373
790	1.445	259.437	97.979	49.505	49.487	4528176.093	9435396.312	238.248
791	1.445	259.608	98.060	48.575	48.560	4528176.333	9435395.406	238.156
792	1.445	264.536	98.493	49.006	49.000	4528172.730	9435394.196	237.836
793	1.445	264.299	98.419	50.236	50.228	4528172.330	9435395.372	237.924
794	1.445	273.043	98.694	51.818	51.815	4528165.519	9435393.104	237.739

795	1.445	275.241	99.373	46.686	46.691	4528167.162	9435387.962	237.136
796	1.445	278.091	99.406	47.380	47.385	4528165.080	9435387.200	237.118
797	1.445	279.853	99.476	44.337	44.342	4528166.086	9435384.061	237.041
798	1.445	283.946	99.611	41.495	41.500	4528166.010	9435380.102	236.930
799	1.445	286.723	99.822	38.294	38.300	4528167.112	9435376.630	236.783
800	1.445	288.705	99.778	38.823	38.829	4528165.918	9435376.085	236.812
801	1.445	292.186	99.925	35.780	35.785	4528166.983	9435372.581	236.718
802	1.445	293.996	100.182	32.145	32.150	4528169.312	9435369.628	236.584
803	1.445	299.084	100.530	29.076	29.079	4528170.503	9435365.889	236.434
804	1.445	301.194	100.446	29.910	29.914	4528169.288	9435365.471	236.467
805	1.445	313.535	101.160	25.168	25.168	4528171.433	9435358.679	236.218
806	1.445	315.766	101.061	26.305	26.305	4528170.077	9435358.160	236.238
807	1.445	321.678	101.259	24.862	24.861	4528170.912	9435355.509	236.185
808	1.445	321.582	101.450	23.256	23.253	4528172.495	9435355.233	236.147
809	1.445	332.081	101.924	21.502	21.495	4528173.819	9435351.373	236.027
810	1.445	354.971	102.525	21.672	21.658	4528174.804	9435343.718	235.817
811	1.445	368.088	103.204	22.223	22.198	4528176.203	9435339.396	235.558
812	1.445	388.549	104.601	40.126	40.027	4528169.067	9435320.477	233.779
813	1.445	379.315	104.969	38.152	38.042	4528166.478	9435325.882	233.701
814	1.445	381.948	105.366	32.932	32.820	4528171.341	9435328.280	233.904
815	1.445	390.698	105.201	34.448	34.338	4528173.684	9435324.028	233.865
816	1.445	393.308	105.207	31.762	31.661	4528176.395	9435325.312	234.081
817	1.445	395.296	105.131	32.287	32.187	4528176.895	9435324.303	234.077
818	1.445	389.454	104.869	37.719	37.614	4528171.054	9435321.952	233.794
819	1.445	393.482	105.142	33.023	32.920	4528175.714	9435324.248	234.012
820	1.445	394.367	105.025	33.217	33.119	4528175.968	9435323.818	234.057
821	1.445	399.390	105.003	28.896	28.811	4528180.379	9435326.062	234.408
822	1.445	12.786	104.747	33.991	33.902	4528184.187	9435318.679	234.144
823	1.445	12.840	104.808	35.160	35.065	4528183.833	9435317.570	234.023
824	1.445	36.281	103.899	24.545	24.503	4528196.160	9435326.218	235.174
825	1.445	38.331	103.211	27.116	27.086	4528197.121	9435323.681	235.309
826	1.445	39.325	101.042	28.532	28.532	4528197.663	9435322.271	236.209
827	1.445	39.585	101.028	29.006	29.007	4528197.820	9435321.809	236.208
828	1.445	38.498	101.094	29.181	29.181	4528197.338	9435321.596	236.175
829	1.445	41.418	101.021	28.262	28.263	4528198.565	9435322.632	236.223
830	1.445	41.643	102.274	27.704	27.690	4528198.596	9435323.212	235.687
831	1.445	39.524	102.602	24.259	24.242	4528197.383	9435326.553	235.685
832	1.445	52.741	102.063	27.037	27.027	4528203.123	9435324.835	235.800
833	1.445	52.788	102.221	23.571	23.560	4528202.137	9435328.158	235.854
834	1.445	72.741	100.079	24.331	24.335	4528209.198	9435330.727	236.646
835	1.445	88.942	99.490	26.934	26.937	4528215.756	9435333.175	236.892
836	1.445	96.581	98.954	22.984	22.984	4528214.420	9435337.944	237.054
837	1.445	108.726	97.722	18.650	18.641	4528212.489	9435343.483	237.343
838	1.445	108.645	97.692	17.968	17.959	4528211.851	9435343.726	237.328
839	1.445	135.272	95.849	14.016	13.988	4528209.290	9435350.973	237.589
840	1.445	139.405	95.013	17.022	16.972	4528212.216	9435352.130	238.008
841	1.445	158.707	94.437	16.524	16.463	4528210.548	9435356.923	238.118
842	1.445	210.221	96.166	25.218	25.176	4528204.511	9435374.138	238.194
843	1.445	222.162	96.253	32.927	32.875	4528201.410	9435383.009	238.613

Станция: лт7(8) Ih = 1.534

Име (клас)	X	Y	H	O	V
лт6(8)	4528190.953	9435305.077	233.124	74.8313	0.0025
лт6(8)	4528190.953	9435305.077	233.124	74.8303	0.0035
лт12(8)	4528233.665	9435341.775	238.513	74.8380	-0.0041
лт12(8)	4528233.665	9435341.775	238.513	74.8359	-0.0021
лт7(8)	4528226.042	9435308.010	236.307	74.8338	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт6(8)	1.445	130.478	105.909	35.369	35.221	0.010	0.002	0.005
лт6(8)	1.445	130.479	105.909	35.367	35.219	0.008	0.003	0.005
лт12(8)	1.445	11.027	96.102	34.685	34.624	-0.004	-0.009	-0.005
лт12(8)	1.445	11.029	96.102	34.685	34.624	-0.003	-0.009	-0.005
846	1.445	44.243	97.605	22.801	22.788	4528219.315	9435329.783	237.254
847	1.445	43.247	98.115	15.657	15.652	4528221.656	9435323.035	236.860
848	1.445	48.755	97.397	24.591	24.574	4528217.144	9435330.916	237.402
849	1.445	50.204	98.007	15.745	15.740	4528220.010	9435322.548	236.889
850	1.445	64.383	98.351	16.276	16.273	4528216.640	9435321.292	236.818
851	1.445	66.134	98.517	14.937	14.935	4528217.081	9435319.958	236.744
852	1.445	327.019	96.364	13.315	13.295	4528239.332	9435308.397	237.156
853	1.445	319.562	96.598	13.641	13.624	4528239.613	9435306.812	237.125
854	1.445	334.164	96.523	16.716	16.694	4528242.569	9435310.361	237.309
855	1.445	332.996	96.422	14.974	14.953	4528240.882	9435309.844	237.237
856	1.445	336.806	95.954	14.825	14.797	4528240.593	9435310.700	237.338
857	1.445	337.693	95.440	16.708	16.668	4528242.388	9435311.268	237.592
858	1.445	360.848	95.218	10.737	10.708	4528235.112	9435313.702	237.202
859	1.445	364.176	94.030	9.033	8.995	4528233.400	9435313.183	237.242
860	1.445	385.462	93.953	10.943	10.895	4528232.405	9435316.854	237.434
861	1.445	380.947	94.037	12.253	12.201	4528233.852	9435317.384	237.542
862	1.445	388.566	94.419	13.283	13.234	4528233.238	9435319.116	237.559
863	1.445	393.642	94.354	12.086	12.040	4528231.764	9435318.604	237.467
864	1.445	399.567	94.589	13.380	13.334	4528231.260	9435320.280	237.532
865	1.445	394.914	94.861	14.388	14.343	4528232.604	9435320.764	237.556
866	1.445	10.376	95.339	14.223	14.187	4528229.308	9435321.816	237.437
867	1.445	118.006	103.068	27.139	27.112	4528199.102	9435311.053	235.089

21. Оценка на точността от нормираните поправки от абриса на геодезическата снимка		
Максимално [несъвпадение, поправка, разлика]	51.6	[cc]
Минимално [несъвпадение, поправка, разлика]	-0.3	[cc]
Средно аритметична стойност $[pw]/n$	-1.4	[cc]
Вероятна грешка $ pw \cdot [i] \cdot (i=n/2)$	10.9	[cc]
Средно аритметична грешка $[pw]/n$	13.4	[cc]
Асиметрия $([pw^3]/n) / (m^3)$	-0.4	[cc]
Ексцес $([pw^4]/n) / (m^4) - 3$	0.4	[cc]
Средна квадратна грешка за единица тежест	18.1	[cc]
СКГ за ед. тежест от всички несъвпадения	18.1	[cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.74 : 0.60$		
Брой на допустимите разлики n	74	
Брой на недопустимите разлики m	0	
Брой на положителните грешки	38	
Брой на отрицателните грешки	36	
Брой на разликите (положителни-отрицателни)	2	
Брой на допустимите разлики (при дов.в.96%)	16	

22. Оценка на точността от координатните разлики dx на геодезическата снимка		
Максимално [несъвпадение, поправка, разлика]	-18.2	[mm]
Минимално [несъвпадение, поправка, разлика]	0.1	[mm]
Средно аритметична стойност $[pw]/n$	0.8	[mm]
Вероятна грешка $ pw \cdot [i] \cdot (i=n/2)$	3.2	[mm]
Средно аритметична грешка $[pw]/n$	3.4	[mm]
Асиметрия $([pw^3]/n) / (m^3)$	0.3	[mm]
Ексцес $([pw^4]/n) / (m^4) - 3$	-0.5	[mm]
Средна квадратна грешка за единица тежест	4.3	[mm]
СКГ за ед. тежест от всички несъвпадения	5.2	[mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.80 : 0.75$		
Брой на допустимите разлики n	72	
Брой на недопустимите разлики m	2	
Брой на положителните грешки	42	
Брой на отрицателните грешки	30	
Брой на разликите (положителни-отрицателни)	12	
Брой на допустимите разлики (при дов.в.96%)	16	

23. Оценка на точността от координатните разлики dy на геодезическата снимка		
Максимално [несъвпадение, поправка, разлика]	-20.0	[mm]
Минимално [несъвпадение, поправка, разлика]	0.0	[mm]
Средно аритметична стойност $[pw]/n$	-1.4	[mm]
Вероятна грешка $ pw \cdot [i] \cdot (i=n/2)$	3.9	[mm]
Средно аритметична грешка $[pw]/n$	5.3	[mm]
Асиметрия $([pw^3]/n) / (m^3)$	-1.2	[mm]
Ексцес $([pw^4]/n) / (m^4) - 3$	0.6	[mm]
Средна квадратна грешка за единица тежест	7.2	[mm]
СКГ за ед. тежест от всички несъвпадения	7.2	[mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.74 : 0.54$		
Брой на допустимите разлики n	74	
Брой на недопустимите разлики m	0	
Брой на положителните грешки	35	
Брой на отрицателните грешки	39	
Брой на разликите (положителни-отрицателни)	-4	
Брой на допустимите разлики (при дов.в.96%)	16	

24. Оценка на точността от координатните разлики dh на геодезическата снимка		
Максимално [несъвпадение, поправка, разлика]	17.0	[mm]
Минимално [несъвпадение, поправка, разлика]	0.0	[mm]
Средно аритметична стойност $[pw]/n$	1.6	[mm]
Вероятна грешка $ pw \cdot [i] \cdot (i=n/2)$	4.8	[mm]
Средно аритметична грешка $[pw]/n$	4.7	[mm]
Асиметрия $([pw^3]/n) / (m^3)$	1.1	[mm]
Ексцес $([pw^4]/n) / (m^4) - 3$	0.5	[mm]
Средна квадратна грешка за единица тежест	5.9	[mm]
СКГ за ед. тежест от всички несъвпадения	5.9	[mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.79 : 0.82$		
Брой на допустимите разлики n	74	
Брой на недопустимите разлики m	0	
Брой на положителните грешки	48	
Брой на отрицателните грешки	26	
Брой на разликите (положителни-отрицателни)	22	
Брой на допустимите разлики (при дов.в.96%)	16	

Обект:

5	4528213.044	9435203.207	228.038
6	4528211.040	9435210.709	228.359
7	4528210.069	9435208.813	228.240
8	4528205.855	9435209.302	228.161
9	4528198.134	9435208.648	228.162
10	4528180.466	9435203.772	228.241
11	4528227.301	9435194.977	229.187
12	4528226.122	9435199.482	227.404
13	4528222.700	9435198.436	228.292

14	4528218.743	9435211.094	228.583
15	4528217.358	9435212.387	228.504
16	4528214.745	9435211.920	228.404
17	4528216.647	9435200.396	227.937
18	4528217.881	9435202.766	228.310
19	4528228.845	9435197.057	228.473
20	4528227.327	9435201.666	228.613
21	4528223.940	9435200.780	228.529
22	4528219.224	9435214.768	228.750
23	4528214.233	9435213.226	228.463
24	4528209.810	9435215.554	228.456
25	4528202.860	9435213.376	228.263
26	4528202.448	9435214.678	228.225
27	4528195.743	9435211.205	228.203
28	4528192.336	9435210.262	228.205
29	4528191.971	9435211.035	228.310
30	4528166.377	9435206.524	228.466
31	4528163.648	9435205.640	228.351
38	4528162.045	9435204.765	228.305
39	4528158.998	9435214.342	228.600
40	4528173.075	9435219.047	228.434
41	4528180.263	9435221.209	228.409
42	4528198.615	9435226.797	228.583
43	4528199.023	9435226.042	228.584
44	4528202.833	9435226.694	228.598
45	4528217.734	9435231.326	229.657
46	4528216.892	9435229.866	229.382
47	4528199.096	9435225.592	228.545
48	4528186.062	9435221.479	228.511
49	4528174.502	9435218.017	228.387
50	4528169.594	9435215.710	228.477
51	4528161.312	9435213.129	228.526
52	4528162.816	9435205.435	228.320
53	4528167.958	9435201.621	228.309
54	4528159.070	9435220.521	229.421
55	4528165.023	9435222.907	229.718
56	4528170.753	9435224.476	229.882
57	4528181.904	9435229.335	230.336
58	4528192.875	9435232.877	230.903
59	4528204.635	9435236.905	231.605
60	4528216.141	9435237.596	232.121
61	4528183.651	9435245.973	231.030
62	4528166.408	9435240.618	230.683
63	4528157.979	9435237.989	230.448
64	4528158.448	9435248.209	230.642
65	4528160.703	9435240.993	230.587
66	4528170.797	9435244.090	230.939
67	4528180.113	9435250.570	231.122
68	4528135.400	9435238.102	229.573
69	4528135.395	9435238.043	229.679
70	4528148.839	9435244.102	230.174
71	4528148.843	9435244.044	230.351
72	4528138.151	9435244.501	229.764
73	4528138.118	9435244.547	229.928
74	4528132.977	9435242.458	229.544
75	4528132.960	9435242.502	229.681
80	4528163.105	9435233.299	230.291
81	4528161.883	9435237.252	230.493
82	4528184.436	9435244.311	231.151
83	4528186.895	9435244.021	231.329
84	4528185.977	9435240.209	231.215
85	4528181.266	9435253.407	231.276
86	4528180.713	9435255.119	231.738
87	4528187.891	9435257.305	232.024
88	4528186.997	9435260.171	232.111
89	4528190.051	9435261.142	232.169
90	4528189.395	9435262.938	232.222
91	4528184.650	9435261.412	232.204
92	4528185.466	9435258.626	232.064
93	4528178.339	9435256.351	231.939
94	4528178.858	9435254.542	231.805
95	4528179.386	9435252.803	231.074
96	4528173.344	9435248.594	231.113
97	4528220.546	9435224.965	229.365
98	4528223.209	9435225.743	229.625
99	4528225.556	9435218.609	228.940
100	4528230.678	9435220.250	229.532
101	4528234.185	9435215.728	228.924
102	4528235.179	9435213.737	228.751
103	4528221.498	9435238.671	231.957
104	4528221.486	9435238.628	232.096
105	4528218.747	9435239.062	231.890
106	4528218.736	9435238.992	232.046
107	4528212.460	9435240.861	231.861
108	4528212.458	9435240.816	232.015
109	4528208.046	9435242.318	231.783
110	4528208.028	9435242.267	231.920
111	4528205.494	9435243.459	231.755
112	4528205.457	9435243.433	231.882
113	4528201.939	9435245.555	231.764
114	4528201.893	9435245.526	231.893
115	4528201.130	9435246.182	231.779
116	4528201.084	9435246.163	231.917
117	4528200.193	9435247.264	231.792
118	4528200.142	9435247.247	231.933
119	4528197.831	9435250.093	231.842
120	4528197.780	9435250.085	231.991
121	4528196.656	9435251.886	231.851
122	4528196.613	9435251.855	231.990
123	4528194.932	9435255.169	231.917

124	4528194.886	9435255.163	232.060
125	4528193.793	9435257.986	232.000
126	4528193.707	9435258.106	232.128
127	4528192.277	9435261.828	232.080
128	4528192.216	9435261.838	232.205
129	4528190.519	9435261.104	232.190
130	4528192.658	9435255.686	232.154
131	4528194.496	9435251.648	232.070
132	4528196.006	9435249.366	232.005
133	4528197.677	9435247.310	231.968
134	4528199.795	9435244.979	231.889
135	4528201.959	9435243.373	231.934
136	4528205.154	9435241.496	231.918
137	4528209.016	9435239.976	231.975
138	4528212.855	9435238.680	232.022
139	4528216.979	9435237.562	232.101
140	4528221.301	9435236.554	231.994
141	4528228.947	9435249.619	232.741
142	4528228.894	9435249.578	232.910
143	4528228.896	9435248.853	232.727
144	4528228.851	9435248.830	232.872
145	4528228.714	9435248.300	232.695
146	4528228.667	9435248.288	232.805
147	4528227.547	9435246.572	232.481
148	4528227.535	9435246.611	232.613
149	4528224.874	9435244.891	232.250
150	4528224.834	9435244.905	232.358
151	4528222.923	9435244.289	232.151
152	4528222.898	9435244.308	232.283
153	4528219.889	9435244.271	232.060
154	4528219.866	9435244.333	232.188
155	4528214.760	9435245.323	231.938
156	4528214.744	9435245.348	232.057
157	4528209.491	9435247.090	231.825
158	4528209.507	9435247.139	231.942
159	4528205.650	9435249.197	231.861
160	4528205.670	9435249.245	231.931
161	4528203.627	9435250.935	231.906
162	4528203.673	9435250.968	231.966
163	4528201.537	9435253.353	231.955
164	4528201.553	9435253.393	232.031
165	4528199.234	9435257.049	232.063
166	4528199.279	9435257.034	232.188
167	4528199.109	9435258.175	232.109
168	4528199.155	9435258.129	232.258
169	4528199.341	9435258.602	232.142
170	4528199.393	9435258.571	232.270
171	4528203.000	9435260.328	232.287
172	4528203.053	9435260.293	232.430
173	4528195.591	9435284.407	232.525
174	4528195.664	9435284.411	232.780
175	4528198.115	9435285.176	232.921
176	4528200.948	9435274.612	232.629
177	4528204.445	9435263.314	232.494
178	4528205.884	9435258.777	232.388
179	4528201.396	9435257.372	232.268
180	4528204.457	9435253.163	232.094
181	4528206.286	9435251.272	232.062
182	4528210.965	9435248.801	231.995
183	4528214.923	9435247.281	232.214
184	4528219.913	9435246.708	232.275
185	4528227.045	9435248.959	232.728
186	4528218.320	9435251.524	233.142
187	4528214.885	9435250.597	232.596
188	4528210.432	9435264.458	233.141
189	4528205.240	9435249.418	231.796
190	4528204.863	9435249.728	231.809
191	4528201.564	9435245.944	231.733
192	4528201.822	9435245.712	231.729
193	4528210.865	9435243.420	231.841
194	4528229.348	9435249.118	232.737
203	4528239.050	9435200.167	228.441
204	4528238.562	9435198.223	228.387
205	4528228.911	9435196.958	228.467
206	4528236.142	9435199.344	228.456
207	4528234.698	9435204.206	228.612
208	4528236.035	9435204.703	228.569
209	4528232.738	9435215.386	228.874
210	4528238.252	9435206.601	228.486
213	4528185.495	9435274.213	232.682
214	4528186.264	9435274.455	232.662
215	4528183.744	9435283.069	232.829
216	4528182.874	9435282.843	232.834
217	4528188.404	9435274.380	232.457
218	4528188.364	9435274.332	232.630
219	4528185.629	9435283.277	232.522
220	4528185.589	9435283.284	232.738
221	4528182.791	9435292.202	232.712
222	4528182.736	9435292.220	232.909
223	4528180.407	9435299.669	232.876
224	4528180.346	9435299.681	233.048
225	4528179.219	9435302.305	232.888
226	4528179.142	9435302.280	233.077
227	4528178.160	9435302.990	232.847
228	4528178.121	9435302.914	233.023
229	4528177.022	9435303.084	232.779
230	4528176.990	9435303.001	232.974
231	4528173.506	9435302.552	232.682
232	4528173.555	9435302.489	232.875
233	4528176.659	9435297.688	233.027

234	4528179.129	9435294.462	232.999
235	4528182.425	9435283.807	232.870
236	4528181.198	9435282.631	232.933
237	4528184.498	9435273.028	232.730
238	4528187.343	9435270.045	232.546
239	4528212.294	9435265.418	233.417
240	4528210.035	9435272.351	233.679
241	4528212.876	9435273.351	233.979
242	4528210.662	9435280.105	233.849
243	4528227.783	9435286.029	234.756
244	4528226.994	9435288.694	234.863
245	4528244.216	9435294.734	235.762
246	4528242.142	9435299.705	236.352
247	4528240.883	9435303.177	236.611
248	4528212.655	9435289.239	234.144
249	4528212.313	9435290.932	234.214
250	4528211.213	9435290.550	234.201
251	4528202.267	9435288.093	234.204
252	4528198.190	9435285.195	234.224
253	4528203.167	9435282.124	233.638
254	4528196.141	9435291.342	232.969
255	4528195.582	9435293.278	233.008
256	4528197.839	9435294.089	234.243
257	4528198.354	9435291.919	234.219
258	4528195.689	9435293.328	234.238
259	4528196.349	9435291.321	234.230
264	4528192.707	9435302.426	233.156
265	4528193.744	9435302.733	233.864
266	4528193.006	9435305.179	233.748
267	4528192.553	9435306.804	233.645
268	4528191.451	9435306.672	233.211
269	4528194.396	9435305.260	233.780
270	4528195.978	9435299.808	234.133
271	4528189.413	9435306.268	233.070
272	4528189.479	9435306.265	233.153
273	4528189.401	9435304.174	232.931
274	4528189.444	9435304.167	233.105
275	4528189.618	9435303.070	232.919
276	4528189.654	9435303.099	233.089
277	4528191.850	9435296.162	232.748
278	4528191.930	9435296.167	232.988
279	4528169.630	9435302.134	232.542
280	4528169.678	9435302.083	232.717
281	4528167.331	9435302.117	232.366
282	4528167.286	9435302.073	232.590
283	4528164.757	9435302.752	232.234
284	4528164.748	9435302.684	232.477
285	4528162.208	9435303.767	232.125
286	4528162.196	9435303.719	232.328
287	4528159.356	9435305.144	232.060
288	4528159.290	9435305.068	232.261
289	4528156.925	9435305.646	232.012
290	4528156.928	9435305.596	232.151
291	4528152.234	9435304.224	231.787
292	4528152.246	9435304.159	232.008
293	4528145.856	9435302.138	231.549
294	4528145.853	9435302.136	231.741
295	4528166.121	9435300.204	232.621
296	4528166.972	9435296.298	232.617
297	4528168.955	9435296.678	232.646
298	4528156.374	9435310.711	232.069
299	4528156.383	9435310.777	232.191
300	4528144.549	9435306.987	231.736
301	4528144.539	9435307.032	231.886
302	4528142.487	9435306.191	231.637
303	4528142.452	9435306.232	231.822
304	4528140.995	9435305.351	231.571
305	4528140.943	9435305.409	231.789
306	4528132.337	9435307.146	231.529
307	4528135.896	9435307.049	231.681
308	4528146.506	9435310.560	232.011
309	4528146.152	9435312.029	232.089
310	4528150.906	9435313.548	232.203
311	4528152.316	9435314.235	232.171
312	4528155.051	9435315.190	232.270
313	4528150.760	9435318.744	232.175
314	4528148.722	9435320.913	232.181
323	4528158.720	9435304.238	232.231
324	4528160.100	9435298.850	232.197
325	4528161.605	9435292.421	231.992
326	4528162.222	9435292.282	232.002
327	4528162.709	9435290.536	231.984
328	4528165.926	9435291.384	232.246
329	4528160.597	9435290.936	231.950
330	4528160.027	9435292.716	231.952
331	4528160.334	9435292.781	231.964
332	4528158.817	9435298.607	231.995
333	4528152.935	9435297.219	231.663
334	4528154.455	9435291.875	231.382
335	4528154.952	9435291.689	231.359
336	4528155.073	9435291.570	231.348
337	4528155.567	9435289.589	231.053
338	4528153.683	9435288.985	231.035
339	4528153.056	9435291.059	231.366
340	4528153.325	9435291.558	231.381
341	4528151.754	9435296.932	231.613
342	4528147.527	9435295.921	231.391
343	4528149.918	9435288.035	231.162
344	4528147.191	9435296.992	231.435
345	4528158.513	9435299.733	232.016

346	4528140.193	9435304.587	231.560
347	4528140.160	9435304.643	231.770
348	4528138.875	9435303.189	231.513
349	4528138.850	9435303.221	231.637
350	4528137.073	9435300.596	231.343
351	4528137.037	9435300.606	231.429
352	4528136.299	9435298.643	231.221
353	4528136.256	9435298.653	231.326
354	4528135.876	9435296.744	231.172
355	4528135.834	9435296.754	231.269
356	4528135.765	9435295.008	231.139
357	4528135.718	9435295.027	231.207
358	4528135.991	9435292.113	231.016
359	4528135.705	9435292.014	231.124
360	4528138.498	9435283.669	230.838
361	4528138.437	9435283.645	230.961
362	4528140.272	9435278.413	230.860
363	4528140.240	9435278.411	230.980
364	4528143.568	9435268.000	230.654
365	4528143.539	9435267.991	230.748
366	4528145.884	9435260.881	230.532
367	4528145.829	9435260.889	230.641
368	4528147.985	9435253.358	230.421
369	4528147.933	9435253.329	230.485
370	4528139.238	9435272.903	230.923
371	4528138.083	9435272.502	230.968
372	4528137.142	9435282.232	230.975
373	4528135.106	9435286.658	231.045
374	4528131.572	9435293.240	231.270
375	4528132.666	9435293.681	231.248
376	4528131.636	9435301.083	231.400
377	4528131.781	9435304.788	231.553
378	4528132.766	9435305.084	231.546
379	4528132.255	9435307.381	231.564
380	4528143.441	9435300.927	231.471
381	4528143.466	9435300.868	231.605
382	4528142.690	9435300.136	231.404
383	4528142.730	9435300.094	231.552
384	4528141.146	9435297.686	231.217
385	4528141.207	9435297.651	231.378
386	4528140.897	9435296.927	231.178
387	4528140.936	9435296.924	231.299
388	4528140.824	9435293.441	231.011
389	4528140.892	9435293.458	231.110
390	4528141.115	9435292.831	230.998
391	4528141.129	9435292.912	231.110
392	4528141.729	9435292.448	230.986
393	4528141.750	9435292.505	231.111
394	4528145.881	9435293.444	231.083
395	4528145.882	9435293.469	231.177
396	4528140.444	9435293.945	231.002
397	4528138.287	9435291.442	230.978
402	4528147.760	9435287.366	230.908
403	4528147.786	9435287.409	231.039
404	4528148.512	9435284.832	230.850
405	4528148.632	9435284.782	230.895
406	4528150.043	9435279.905	230.783
407	4528150.127	9435279.943	230.852
408	4528152.817	9435270.635	230.691
409	4528152.937	9435270.634	230.701
410	4528156.102	9435259.864	230.564
411	4528156.185	9435259.881	230.833
412	4528153.158	9435258.432	230.509
413	4528153.195	9435258.379	230.619
414	4528153.332	9435253.719	230.448
415	4528153.063	9435250.798	230.419
416	4528152.718	9435249.347	230.392
417	4528152.774	9435249.300	230.474
418	4528151.585	9435247.026	230.363
419	4528151.623	9435246.968	230.456
420	4528150.359	9435245.343	230.289
421	4528150.372	9435245.292	230.364
422	4528148.918	9435244.151	230.205
423	4528148.920	9435244.066	230.385
424	4528145.467	9435242.286	230.182
425	4528145.476	9435242.245	230.287
426	4528143.429	9435241.169	229.962
427	4528143.493	9435241.211	230.052
428	4528125.885	9435239.888	229.401
429	4528129.973	9435241.262	229.448
430	4528129.972	9435241.310	229.565
431	4528138.749	9435244.731	229.818
432	4528138.733	9435244.775	229.983
433	4528143.797	9435246.866	230.036
434	4528143.770	9435246.903	230.185
435	4528146.079	9435248.278	230.155
436	4528146.027	9435248.288	230.267
437	4528147.230	9435249.555	230.231
438	4528147.201	9435249.566	230.352
439	4528147.815	9435251.012	230.323
440	4528147.766	9435251.035	230.441
441	4528148.006	9435252.709	230.414
442	4528147.972	9435252.709	230.470
443	4528145.545	9435255.849	230.598
444	4528146.233	9435252.825	230.479
445	4528145.616	9435250.643	230.387
446	4528144.626	9435249.537	230.297
447	4528142.846	9435248.423	230.253
448	4528138.252	9435246.487	230.000
449	4528130.479	9435243.438	229.642

450	4528129.920	9435250.905	230.142
451	4528128.285	9435250.395	229.858
452	4528127.842	9435252.150	229.819
453	4528135.700	9435254.581	230.360
454	4528142.795	9435256.815	230.612
455	4528141.515	9435261.773	230.749
456	4528149.642	9435256.354	230.503
457	4528152.907	9435249.268	230.444
458	4528154.290	9435249.658	230.501
459	4528161.102	9435249.280	230.758
460	4528159.129	9435255.917	230.715
461	4528176.348	9435262.363	231.958
462	4528173.670	9435269.203	232.069
463	4528170.264	9435280.147	232.103
464	4528167.012	9435290.683	232.275
465	4528162.699	9435290.296	231.865
466	4528165.431	9435280.787	231.825
467	4528170.510	9435264.053	231.630
468	4528164.708	9435287.256	232.306
469	4528166.278	9435280.893	232.134
470	4528169.720	9435270.407	232.027
471	4528170.157	9435263.118	231.577
472	4528159.972	9435260.346	230.901
477	4528228.564	9435254.786	232.868
478	4528228.518	9435254.771	233.031
479	4528227.797	9435261.779	233.184
480	4528227.749	9435261.777	233.314
481	4528227.871	9435263.833	233.266
482	4528227.819	9435263.829	233.409
483	4528228.249	9435265.987	233.455
484	4528228.199	9435265.989	233.506
485	4528228.693	9435267.298	233.494
486	4528228.633	9435267.283	233.583
487	4528229.343	9435268.511	233.562
488	4528229.291	9435268.519	233.681
489	4528231.173	9435270.352	233.705
490	4528231.154	9435270.371	233.842
491	4528233.221	9435272.106	233.847
492	4528233.179	9435272.134	234.005
493	4528235.129	9435273.583	234.008
494	4528235.108	9435273.613	234.163
495	4528236.183	9435274.227	234.133
496	4528236.155	9435274.265	234.295
497	4528242.668	9435276.684	234.453
498	4528242.668	9435276.730	234.589
499	4528248.926	9435278.936	234.881
500	4528248.920	9435279.001	235.001
501	4528251.228	9435279.913	235.002
502	4528251.199	9435279.954	235.149
503	4528254.062	9435281.551	235.243
504	4528254.061	9435281.627	235.360
505	4528258.630	9435285.421	235.584
506	4528258.611	9435285.491	235.710
507	4528265.465	9435291.855	236.244
508	4528265.455	9435291.880	236.353
509	4528270.553	9435296.530	236.729
510	4528270.529	9435296.552	236.802
511	4528272.881	9435299.370	236.991
512	4528272.840	9435299.368	237.150
513	4528265.365	9435307.372	237.496
514	4528272.873	9435302.077	237.261
515	4528266.975	9435296.361	236.743
516	4528261.403	9435291.091	236.284
517	4528256.798	9435286.760	235.822
518	4528251.495	9435282.243	235.276
519	4528243.608	9435279.374	234.777
520	4528243.183	9435280.694	234.810
521	4528249.968	9435282.930	235.228
522	4528249.112	9435285.971	235.699
523	4528256.342	9435288.368	236.106
524	4528255.491	9435291.071	236.373
525	4528260.404	9435292.791	236.413
526	4528258.120	9435293.786	236.465
527	4528254.810	9435292.602	236.459
528	4528254.252	9435289.303	236.043
529	4528247.846	9435287.076	235.802
530	4528248.075	9435284.032	235.158
531	4528241.230	9435281.620	234.855
532	4528237.919	9435279.520	234.629
533	4528231.020	9435278.218	234.425
534	4528231.598	9435275.426	234.234
535	4528231.465	9435275.294	234.098
536	4528224.888	9435272.738	233.864
537	4528222.472	9435268.505	233.645
538	4528221.266	9435267.918	233.646
539	4528222.257	9435264.958	233.518
540	4528223.519	9435265.009	233.499
541	4528224.801	9435261.290	233.336
542	4528225.834	9435258.058	233.229
543	4528226.972	9435254.280	233.072
544	4528225.669	9435253.745	233.115
545	4528226.894	9435270.864	233.784
550	4528255.824	9435306.395	236.780
551	4528254.126	9435305.766	236.799
552	4528252.253	9435311.002	237.009
553	4528253.974	9435313.480	237.608
554	4528253.759	9435314.554	237.756
555	4528249.508	9435314.925	237.757
556	4528250.232	9435310.510	237.224
557	4528250.323	9435310.342	237.043

558	4528251.385	9435307.229	236.896
559	4528252.714	9435307.652	236.850
560	4528254.048	9435303.747	236.808
561	4528254.962	9435300.756	236.823
562	4528255.615	9435300.990	236.746
563	4528265.660	9435328.161	238.020
564	4528270.243	9435329.188	238.071
565	4528272.222	9435326.561	238.018
566	4528285.767	9435330.943	238.046
567	4528280.386	9435318.514	237.791
568	4528280.838	9435318.142	237.927
569	4528284.662	9435322.518	238.612
570	4528287.894	9435326.446	239.380
571	4528287.338	9435326.694	237.972
574	4528244.044	9435316.766	237.844
575	4528242.663	9435320.334	237.944
576	4528240.594	9435323.651	237.995
577	4528241.715	9435320.155	237.915
578	4528243.165	9435316.351	237.970
579	4528244.218	9435312.903	237.650
584	4528229.647	9435338.452	237.859
585	4528227.156	9435345.687	237.925
586	4528228.712	9435346.229	238.706
587	4528227.648	9435349.281	238.780
588	4528225.153	9435348.378	237.965
589	4528222.628	9435355.597	238.051
590	4528220.096	9435354.666	238.060
591	4528221.843	9435351.439	238.020
592	4528228.034	9435338.072	237.903
593	4528230.885	9435339.156	238.621
594	4528229.855	9435338.715	238.616
595	4528227.465	9435345.572	238.693
596	4528225.364	9435348.649	238.831
597	4528222.916	9435355.704	238.916
598	4528230.310	9435336.705	237.927
599	4528225.498	9435335.075	237.697
600	4528226.428	9435332.619	237.693
601	4528224.206	9435333.429	237.712
602	4528231.105	9435335.162	238.253
603	4528232.265	9435334.044	238.306
610	4528241.759	9435361.942	239.886
611	4528242.164	9435360.656	239.775
612	4528250.263	9435363.320	240.600
613	4528250.574	9435363.439	240.807
614	4528253.671	9435364.455	240.792
615	4528254.032	9435362.158	240.716
616	4528253.800	9435360.601	240.639
617	4528252.416	9435358.182	240.423
618	4528250.481	9435355.519	240.110
619	4528246.754	9435351.752	239.646
620	4528243.053	9435362.311	240.024
621	4528249.867	9435364.488	240.661
622	4528250.293	9435364.646	240.868
623	4528248.731	9435369.488	241.013
624	4528250.137	9435370.059	240.961
625	4528248.906	9435373.840	241.047
626	4528247.908	9435376.906	241.068
627	4528246.658	9435380.702	241.099
628	4528245.106	9435383.783	241.131
629	4528242.186	9435390.129	241.147
630	4528243.126	9435390.859	241.176
631	4528241.984	9435394.116	241.225
632	4528240.545	9435397.474	241.289
633	4528239.047	9435400.939	241.458
634	4528239.536	9435401.191	241.461
635	4528237.308	9435407.977	241.808
636	4528238.534	9435408.697	241.831
637	4528238.189	9435410.950	241.963
638	4528239.514	9435412.561	241.948
639	4528236.289	9435422.632	242.157
640	4528242.620	9435430.725	241.961
641	4528245.080	9435423.651	242.017
642	4528249.803	9435410.435	241.827
643	4528250.477	9435410.624	241.576
644	4528257.513	9435390.880	241.222
645	4528264.206	9435393.146	242.262
646	4528270.942	9435380.427	242.512
647	4528270.375	9435387.468	242.734
648	4528272.279	9435394.243	243.046
649	4528274.417	9435387.894	243.044
650	4528277.293	9435379.461	243.045
651	4528274.842	9435375.714	242.842
652	4528271.543	9435374.876	242.649
653	4528271.149	9435376.236	242.565
654	4528266.994	9435374.558	242.017
655	4528266.982	9435374.468	242.100
656	4528260.183	9435371.856	241.118
657	4528260.203	9435371.756	241.203
658	4528259.705	9435371.445	241.005
659	4528259.745	9435371.402	241.122
660	4528259.911	9435370.790	240.979
661	4528259.988	9435370.835	241.125
662	4528260.594	9435370.551	240.924
663	4528260.616	9435370.663	241.161
664	4528262.608	9435371.218	240.961
665	4528262.585	9435371.308	241.538
666	4528271.188	9435374.378	241.174
667	4528271.223	9435374.499	242.245
668	4528269.593	9435368.039	241.070
669	4528271.626	9435359.929	241.021

670	4528273.881	9435362.152	241.024
671	4528272.724	9435369.102	241.098
672	4528274.549	9435375.187	241.208
673	4528276.655	9435369.166	241.191
674	4528280.029	9435358.270	241.222
675	4528277.233	9435357.534	241.148
676	4528279.243	9435349.690	241.416
677	4528280.100	9435348.959	241.371
678	4528282.569	9435341.887	241.076
679	4528280.041	9435340.933	240.969
680	4528278.793	9435342.085	240.581
681	4528275.687	9435341.072	239.959
682	4528271.228	9435339.567	238.996
683	4528268.474	9435338.637	238.950
684	4528268.463	9435337.095	238.948
685	4528263.815	9435335.624	238.416
686	4528275.055	9435340.822	240.209
687	4528273.997	9435344.127	240.162
688	4528270.569	9435343.166	238.966
689	4528268.469	9435340.308	238.952
690	4528263.388	9435338.530	238.688
691	4528258.473	9435336.444	238.502
692	4528257.819	9435334.690	238.161
693	4528274.278	9435344.507	240.166
694	4528269.234	9435342.801	239.839
695	4528257.749	9435375.656	241.030
698	4528233.677	9435341.962	238.468
699	4528233.617	9435341.946	238.519
700	4528230.602	9435347.684	238.637
701	4528230.559	9435347.649	238.690
702	4528227.983	9435354.113	238.789
703	4528227.937	9435354.073	238.832
704	4528226.267	9435358.907	238.856
705	4528226.208	9435358.889	238.962
706	4528222.482	9435369.696	239.199
707	4528222.431	9435369.671	239.314
708	4528218.261	9435381.472	239.674
709	4528218.196	9435381.438	239.747
710	4528215.383	9435389.615	239.847
711	4528215.348	9435389.590	239.933
712	4528212.765	9435396.098	240.042
713	4528211.705	9435397.200	240.051
714	4528209.347	9435398.074	240.000
715	4528207.138	9435398.425	239.866
716	4528211.293	9435393.368	239.590
717	4528211.808	9435391.961	239.590
718	4528211.867	9435391.957	239.773
719	4528212.962	9435388.814	239.806
720	4528212.981	9435388.762	239.954
721	4528215.346	9435389.588	239.932
722	4528218.231	9435375.447	239.561
723	4528217.613	9435375.235	239.219
724	4528220.363	9435367.510	239.305
725	4528222.746	9435368.368	239.273
726	4528224.786	9435362.686	239.069
727	4528222.532	9435361.934	239.177
728	4528224.401	9435356.440	239.076
729	4528221.810	9435363.083	239.263
730	4528220.527	9435366.499	239.307
731	4528218.165	9435369.692	239.306
732	4528215.916	9435376.028	239.274
733	4528217.138	9435376.463	239.140
734	4528217.249	9435376.775	239.640
735	4528215.940	9435380.541	239.761
736	4528215.803	9435380.645	239.140
737	4528214.837	9435383.264	239.187
738	4528214.886	9435383.340	239.838
739	4528213.466	9435387.322	239.947
740	4528222.933	9435415.117	241.159
741	4528225.630	9435406.939	241.104
742	4528228.299	9435398.885	240.878
743	4528227.675	9435397.268	240.724
744	4528232.264	9435383.297	240.061
745	4528237.977	9435365.964	239.884
746	4528216.511	9435380.874	239.127
747	4528215.590	9435383.548	239.219
748	4528217.106	9435384.167	239.782
749	4528218.143	9435381.337	239.740
754	4528202.790	9435390.331	239.218
755	4528203.205	9435389.091	239.246
756	4528206.352	9435390.326	239.275
757	4528200.000	9435415.677	240.186
758	4528204.045	9435403.486	240.014
759	4528199.073	9435413.709	240.161
760	4528201.372	9435406.560	240.027
761	4528196.622	9435404.941	239.847
762	4528196.988	9435403.573	239.741
763	4528193.369	9435402.244	239.487
764	4528189.783	9435401.052	239.189
765	4528186.298	9435399.966	238.901
768	4528228.835	9435420.140	241.608
771	4528179.287	9435392.518	237.730
772	4528179.258	9435392.550	237.939
773	4528174.166	9435389.759	237.309
774	4528174.145	9435389.774	237.497
775	4528172.939	9435388.732	237.181
776	4528172.921	9435388.764	237.368
777	4528171.361	9435386.648	236.990
778	4528171.343	9435386.658	237.138
779	4528170.473	9435384.518	236.888

780	4528170.427	9435384.530	237.009
781	4528169.356	9435380.159	236.684
782	4528169.328	9435380.170	236.782
783	4528169.180	9435377.586	236.592
784	4528169.139	9435377.592	236.708
785	4528169.603	9435374.060	236.515
786	4528169.551	9435374.079	236.636
787	4528173.313	9435362.518	236.097
788	4528173.274	9435362.488	236.275
789	4528179.703	9435397.780	238.373
790	4528176.093	9435396.312	238.248
791	4528176.333	9435395.406	238.156
792	4528172.730	9435394.196	237.836
793	4528172.330	9435395.372	237.924
794	4528165.519	9435393.104	237.739
795	4528167.162	9435387.962	237.136
796	4528165.080	9435387.200	237.118
797	4528166.086	9435384.061	237.041
798	4528166.010	9435380.102	236.930
799	4528167.112	9435376.630	236.783
800	4528165.918	9435376.085	236.812
801	4528166.983	9435372.581	236.718
802	4528169.312	9435369.628	236.584
803	4528170.503	9435365.889	236.434
804	4528169.288	9435365.471	236.467
805	4528171.433	9435358.679	236.218
806	4528170.077	9435358.160	236.238
807	4528170.912	9435355.509	236.185
808	4528172.495	9435355.233	236.147
809	4528173.819	9435351.373	236.027
810	4528174.804	9435343.718	235.817
811	4528176.203	9435339.396	235.558
812	4528169.067	9435320.477	233.779
813	4528166.478	9435325.882	233.701
814	4528171.341	9435328.280	233.904
815	4528173.684	9435324.028	233.865
816	4528176.395	9435325.312	234.081
817	4528176.895	9435324.303	234.077
818	4528171.054	9435321.952	233.794
819	4528175.714	9435324.248	234.012
820	4528175.968	9435323.818	234.057
821	4528180.379	9435326.062	234.408
822	4528184.187	9435318.679	234.144
823	4528183.833	9435317.570	234.023
824	4528196.160	9435326.218	235.174
825	4528197.121	9435323.681	235.309
826	4528197.663	9435322.271	236.209
827	4528197.820	9435321.809	236.208
828	4528197.338	9435321.596	236.175
829	4528198.565	9435322.632	236.223
830	4528198.596	9435323.212	235.687
831	4528197.383	9435326.553	235.685
832	4528203.123	9435324.835	235.800
833	4528202.137	9435328.158	235.854
834	4528209.198	9435330.727	236.646
835	4528215.756	9435333.175	236.892
836	4528214.420	9435337.944	237.054
837	4528212.489	9435343.483	237.343
838	4528211.851	9435343.726	237.328
839	4528209.290	9435350.973	237.589
840	4528212.216	9435352.130	238.008
841	4528210.548	9435356.923	238.118
842	4528204.511	9435374.138	238.194
843	4528201.410	9435383.009	238.613
846	4528219.315	9435329.783	237.254
847	4528221.656	9435323.035	236.860
848	4528217.144	9435330.916	237.402
849	4528220.010	9435322.548	236.889
850	4528216.640	9435321.292	236.818
851	4528217.081	9435319.958	236.744
852	4528239.332	9435308.397	237.156
853	4528239.613	9435306.812	237.125
854	4528242.569	9435310.361	237.309
855	4528240.882	9435309.844	237.237
856	4528240.593	9435310.700	237.338
857	4528242.388	9435311.268	237.592
858	4528235.112	9435313.702	237.202
859	4528233.400	9435313.183	237.242
860	4528232.405	9435316.854	237.434
861	4528233.852	9435317.384	237.542
862	4528233.238	9435319.116	237.559
863	4528231.764	9435318.604	237.467
864	4528231.260	9435320.280	237.532
865	4528232.604	9435320.764	237.556
866	4528229.308	9435321.816	237.437
867	4528199.102	9435311.053	235.089

O B E K T : Zapad

Код-Г°	Лк ±	X	Y	Лк ±	H	Mx	My	Ms	Mh
1970	5	4520000.000	9430000.000	0	0.0000	0.0	0.0	0.000	0.00
100041	5	4528141.289	9435178.636	5	228.7640	0.0	0.0	0.000	0.00
110015	5	4528136.227	9435204.390	5	229.1720	0.0	0.0	0.000	0.00
110005	5	4528280.433	9435310.685	5	237.4700	0.0	0.0	0.000	0.00
110014	5	4528098.507	9435296.397	5	229.6290	0.0	0.0	0.000	0.00
110011	5	4528210.865	9435429.035	5	241.3770	0.0	0.0	0.000	0.00
110006	5	4528300.055	9435345.473	5	241.4660	0.0	0.0	0.000	0.00
110013	5	4528149.788	9435413.559	5	236.7250	0.0	0.0	0.000	0.00
130006	5	4528190.953	9435305.077	5	233.1230	0.0	0.0	0.000	0.00
130007	5	4528226.042	9435308.010	5	236.3070	0.0	0.0	0.000	0.00
130002	5	4528214.603	9435239.454	5	232.0140	0.0	0.0	0.000	0.00

130001	5	4528141.147	9435216.638	5	229.4620	0.0	0.0	0.000	0.00
130005	5	4528249.756	9435199.893	5	228.8980	0.0	0.0	0.000	0.00

O B E K T :Zapad

		7	40	5	5	0	1	2	0	5	60	3	5
		NS	I	NT	T		R		Z		S		
110014	1.667	100041			1.445		125.4690		100.5550		125.305		
		100041			1.445		325.4680		299.4440		125.305		
		110015			1.445		128.0590		100.4320		99.435		
		110015			1.445		328.0540		299.5650		99.437		
		5			2.540		139.8950		98.9600		46.214		
		6			2.540		139.9630		98.7830		46.207		
		7			2.540		149.4910		98.2610		30.163		
		8			2.540		149.5780		98.0130		30.178		
		9			1.445		171.2960		100.9000		17.674		
		10			1.445		171.5390		100.0340		17.699		
		11			1.445		222.4310		97.6300		20.656		
		12			1.445		204.3280		97.6830		21.605		
		13			1.445		242.4970		97.3360		37.026		
		14			1.445		241.6150		97.4810		29.062		
		15			1.445		239.2010		97.2870		21.317		
		16			1.445		188.2800		97.6190		24.216		
		17			1.445		185.0550		97.8020		23.270		
		18			1.670		159.7890		98.6630		34.487		
		19			1.590		148.0850		99.2310		49.743		
		20			2.540		145.7800		98.0390		46.346		
		21			2.540		149.2880		97.7780		40.135		
		22			1.445		170.2760		98.8240		23.438		
		23			1.445		198.7600		97.1900		17.720		
		24			2.540		245.8040		97.4610		74.220		
		25			2.540		245.9910		97.4360		73.610		
		26			2.540		246.8740		97.3060		67.761		
		27			1.445		248.3610		97.7490		66.989		
		28			1.445		256.8370		97.8020		71.454		
		29			1.940		257.9160		97.4940		69.495		
		30			1.445		270.1040		97.7220		80.205		
		130016			1.940		277.9200		96.7640		105.133		
		130016			1.940		77.9160		303.2380		105.133	*	
130016	1.620	110014			1.940		57.4860		102.8930		105.101		
		110014			1.940		257.4900		297.1030		105.104		
		35			1.445		222.8840		94.8350		15.694		
		36			1.445		201.4510		95.3710		18.210		
		37			1.445		201.9050		95.6400		21.234		
		38			1.445		193.7460		95.6540		21.370		
		39			1.445		191.5900		95.5660		17.656		
		40			1.445		182.0540		95.4830		16.761		
		41			1.445		169.4260		94.3990		12.048		
		42			1.445		193.7370		94.2810		10.377		
		43			1.445		197.2840		95.2850		15.942		
		44			1.445		216.0390		94.7840		13.388		
		45			1.445		141.0720		96.3070		17.766		
		46			1.445		128.2120		97.0640		25.959		
		47			1.445		124.8630		97.2350		26.046		
		48			1.445		116.3420		98.6670		40.147		
		49			1.445		114.9960		98.7450		43.579		
		50			1.445		113.3500		99.1710		43.977		
		51			1.445		111.9760		99.8190		50.388		
		52			1.445		110.7310		100.0330		54.859		
		53			1.445		110.3630		99.9230		57.943		
		54			2.540		107.6960		99.6910		62.563		
		55			2.540		106.8470		99.6510		53.921		
		56			1.445		111.6140		98.8820		40.439		
		57			1.445		114.5700		99.3100		29.552		
		58			1.445		115.6470		98.5390		26.143		
		59			1.445		118.8160		97.9860		18.540		
		60			1.445		122.0500		98.4820		12.729		
		61			1.445		196.8640		94.3120		22.349		
		62			1.445		197.0660		93.7880		25.089		
		63			1.445		210.6340		93.6900		25.212		
		110013			1.445		252.5600		94.9290		23.041		
		110013			1.445		52.5630		305.0680		23.041	*	
110013	1.555	130016			1.445		182.4100		105.8620		23.067		
		130016			1.445		382.4130		294.1370		23.066		
		68			1.445		292.6970		96.9150		22.121		
		69			1.445		303.9220		96.1900		29.171		
		70			1.445		305.3230		95.5660		29.715		
		71			1.445		307.2860		95.3630		29.511		
		72			1.445		312.8350		95.4100		37.473		
		73			1.445		315.7520		95.1310		43.323		
		74			1.445		309.6710		95.2040		28.985		
		75			1.445		315.3820		95.1870		37.573		
		76			1.445		318.3530		95.3160		44.533	*	
110006	1.600	110005			1.445		134.8380		106.5870		40.166		
		110005			1.445		334.8430		293.4140		40.162		
		79			1.445		75.0990		104.5050		2.536		
		80			1.445		75.3580		104.5750		2.051		
		81			1.445		13.9190		97.8140		3.264		
		82			1.445		21.8430		97.8880		3.602		
		83			1.445		397.2890		94.9820		6.918		
		84			1.445		25.7810		94.9670		8.400		
		85			1.445		41.3950		103.3420		6.843		
		86			1.445		11.8280		105.8310		4.857		
		87			1.445		24.1460		108.0950		3.827		
		88			1.445		44.3620		106.0250		5.005		
		89			1.445		79.2710		107.9670		3.998		
		90			1.445		89.3640		106.4620		4.979		
		91			1.445		90.9910		102.9110		9.711		
		92			1.445		107.4260		101.9400		10.753		
		93			1.445		107.5120		102.5360		18.505		

	94	1.445	381.1720	94.0240	18.644
	95	1.445	382.3260	92.4220	18.594
	96	1.445	394.5490	93.5480	18.366
	97	1.445	394.3870	92.3780	18.520
	98	1.445	395.5200	94.3910	16.618
	99	1.445	4.1090	95.6160	17.052
	100	1.445	3.8000	94.2520	17.130
	101	1.445	9.3030	96.6350	17.526
	102	1.445	14.6830	96.2730	14.031
	103	1.445	9.7980	96.2030	13.540
	104	1.445	13.3800	95.9120	11.780
	105	1.445	389.0290	95.5430	10.670
	106	1.445	396.2130	95.6800	11.600
	107	1.445	396.4070	91.5900	26.016
	108	1.445	397.0210	91.2320	24.409
	109	1.445	397.8540	93.1190	22.800
	110	1.445	399.5200	92.3100	19.718
	111	1.445	0.1160	94.2710	18.625
	112	1.445	5.3620	95.5320	18.796
	113	1.445	11.6330	96.5410	19.336
	114	1.445	13.5960	96.3740	15.986
	115	1.445	19.9000	96.0190	12.778
	130017	1.445	372.1360	94.3760	29.532
	130017	1.445	172.1270	305.6310	29.529 *
130017	1.507	110006	1.445	119.0800	106.0940
		110006	1.445	319.0790	293.9060
		120	1.445	44.0760	102.3080
		121	1.445	77.8690	102.0040
		122	1.445	82.0260	102.5670
		123	1.445	48.7300	102.2550
		124	1.445	22.8260	98.8630
		125	1.445	28.0240	91.4970
		126	1.445	40.9090	91.6870
		127	1.445	68.5370	93.2110
		128	1.445	64.4270	94.2520
		129	1.445	77.5960	95.0200
		130	1.445	65.7560	96.2480
		131	1.445	72.4290	101.2920
		132	1.445	54.1870	95.6150
		133	1.445	30.4590	93.6060
		134	1.445	30.2130	94.8050
		135	1.445	394.1680	95.4910
		136	1.445	380.0290	94.5330
		137	1.445	383.9120	94.3450
		138	1.445	376.5160	93.7360
		139	1.445	368.8790	93.5230
		140	1.445	367.8860	92.0610
		141	0.060	358.1170	99.0510
		142	1.445	347.1050	92.9490
		143	1.445	343.9630	93.2990
		144	1.445	329.6770	94.3380
		145	1.445	352.5570	92.9070
		146	1.445	81.6990	102.4790
		147	1.445	78.2290	102.7750
		148	1.445	66.3360	101.2340
		149	1.445	64.9860	99.8560
		150	1.445	376.6860	93.9240
		151	1.445	375.3920	92.0850
		152	1.445	361.3220	92.9810
		130018	1.445	347.9900	95.0020
		130018	1.445	147.9940	305.0000
130018	1.602	130017	1.445	101.1210	105.5010
		130017	1.445	301.1270	294.4960
		157	1.445	88.9810	103.2000
		158	1.445	99.3370	103.1980
		159	1.445	102.6620	103.0200
		160	1.445	89.4420	96.6030
		161	1.445	87.8430	97.1100
		162	1.445	88.2460	95.9680
		163	1.445	105.7060	103.2980
		164	1.445	86.6120	102.3860
		165	1.445	79.8270	102.2010
		166	1.445	10.6870	105.9410
		167	1.445	341.1220	105.4350
		168	1.445	361.2880	118.8190
		169	1.445	399.8090	121.4000
		170	1.445	394.6540	114.7500
		171	1.445	371.6450	113.7650
		172	1.445	376.6730	119.6370
		173	1.445	392.7250	119.8410
		174	1.445	391.5840	116.8160
		175	1.445	379.5150	116.2960
		176	1.445	380.9960	119.0520
		177	1.445	391.7780	119.1250
		178	1.445	391.1910	117.3570
		179	1.445	382.3330	117.5730
		180	1.445	382.4110	118.0580
		181	1.445	391.3670	117.6490
		182	1.445	385.6130	113.1460
		183	1.445	364.3430	110.5440
		184	2.540	336.2540	104.0990
		185	1.445	338.1500	104.7640
		186	1.445	368.9130	107.9250
		187	1.445	377.9430	114.4830
		188	1.445	381.2600	114.6180
		189	1.445	382.3380	114.5500
130007	1.517	130006	1.445	142.9210	105.8790
		130006	1.445	342.9260	294.1240
		192	1.445	131.0690	103.5680
		193	1.445	118.5990	100.4250

194	1.445	112.6220	100.1400	23.494
195	1.445	112.6550	100.0250	21.358
196	1.445	103.9130	99.5810	18.582
197	1.445	93.0160	98.8140	16.459
198	1.445	79.0040	98.4910	14.905
199	1.445	76.6850	98.3050	16.266
200	1.445	63.2030	97.9770	15.669 *
130002 1.649 130001	1.445	355.9020	102.2780	76.969
130001	1.445	155.9020	297.7210	76.969
203	1.445	95.3690	104.6260	20.806
204	1.445	99.1330	104.8700	18.881
205	1.445	99.4150	101.2650	18.728
206	1.445	102.2570	101.4300	17.499
207	1.445	102.4940	104.6140	17.470
208	1.445	113.6120	104.5370	14.242
209	1.445	123.4670	102.7280	16.954
210	1.445	123.5680	101.3270	16.998
211	1.445	130.4710	101.1120	20.214
212	1.445	130.5250	101.7800	20.263
213	1.445	133.6450	101.8590	19.683
214	1.445	127.1280	102.1040	16.447
215	1.445	133.2510	101.5790	21.925
216	1.445	133.2840	101.1680	21.957
217	1.445	135.2130	101.0550	23.360
218	1.445	135.2540	101.7220	23.403
219	1.445	137.3740	101.0750	22.991
220	1.445	138.4660	101.6220	22.875
221	1.445	136.5560	101.6610	21.402
222	1.445	135.5320	101.1770	21.599 *
130005 1.604 130002	1.445	337.1130	96.4500	52.997
130002	1.445	137.1070	303.5570	52.996
225	1.940	322.3440	95.6300	32.336
226	1.940	322.4580	95.3050	31.506
227	1.940	322.5970	94.7190	30.076
228	1.445	322.1920	94.4140	31.493
229	1.445	322.0230	94.4780	32.364
230	1.445	314.6690	94.4430	32.268
231	1.445	314.6480	94.3240	31.455
232	1.445	314.4820	95.3340	30.102
233	1.445	314.4950	95.6670	32.212
234	1.940	310.8600	94.7640	32.387
235	1.940	310.3780	94.4510	30.857
236	1.940	310.7160	94.5380	32.410
237	1.445	310.4200	94.3610	31.508
238	1.445	307.3340	94.3780	31.691
239	1.445	307.7560	94.5430	32.569
240	1.940	307.6150	94.5050	32.581
241	1.940	307.0100	94.2680	31.093 *

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#   ПРЕДВАРИТЕЛНА ОБРАБОТКА НА ГЕОДЕЗИЧЕСКИТЕ ИЗМЕРВАНИЯ
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ПЛАНОВА МРЕЖА: Координатна система - 1970г.

Зона..... 5

Клас на плновата мрежа..... 8

Средна квадратна грешка за посока..... 30[сс]

Константи на далекомера..... a=5, b=5, c=0

Точност на центриране на инструмента..... 5[mm]

Точност на центриране на сигнала..... 5[mm]

Брой дадени точки..... 11

Брой новоопределяеми точки..... 3

Брой отчетени посоки..... 28

Брой измерени посоки в мрежата..... 15

Брой отчетени разстояния..... 28

Брой измерени разстояния в мрежата..... 15

ВИСОЧИННА МРЕЖА: Височинна система - Балтийска

Клас на височинната мрежа:..... 6

Средна квадратна грешка за зенитен ъгъл:.. 50[сс]

Средна квадратна грешка за превишение:.... 50[mm]

Точност на височината на инструмента:..... 5[mm]

Точност на височината на сигнала:..... 5[mm]

Брой дадени репери:..... 11

1. Оценка на точността от двойната колимационна грешка		
Максимално [несъвпадение, поправка, разлика]	-31.2	[cc]
Минимално [несъвпадение, поправка, разлика]	0.0	[cc]
Средно аритметична стойност $ pw /n$	-0.8	[cc]
Вероятна грешка $ pw [i] (i=n/2)$	19.6	[cc]
Средно аритметична грешка $ pw /n$	17.3	[cc]
Асиметрия $([pw^3]/n)/(m^3)$	-0.5	[cc]
Ексцес $([pw^4]/n)/(m^4)-3$	-1.5	[cc]
Средна квадратна грешка за единица тежест	20.9	[cc]
СКГ за ед. тежест от всички несъвпадения	20.9	[cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.83 : 0.94$		
Брой на допустимите разлики n	14	
Брой на недопустимите разлики m	0	
Брой на положителните грешки	7	
Брой на отрицателните грешки	7	
Брой на разликите (положителни-отрицателни)	0	
Брой на допустимите разлики (при дов.в.96%)	6	

2. Оценка на точността от двойната индексна грешка на вертикалния кръг		
Максимална двоина индексна грешка	-49.5	[cc]
Минимална двоина индексна грешка	0.0	[cc]
Средно аритметична стойност	-3.0	[cc]
Вероятна грешка	17.7	[cc]
Средно аритметична грешка	19.2	[cc]
Асиметрия	-0.9	[cc]
Ексцес	-0.5	[cc]
Средна квадратна грешка за зенитен ъгъл	25.0	[cc]
СКГ за z-ъгъл от всички несъвпадения	25.0	[cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.77 : 0.71$		
Брой на допустимите разлики n	14	
Брой на недопустимите разлики m	0	
Брой на положителните грешки	7	
Брой на отрицателните грешки	7	
Брой на разликите (положителни-отрицателни)	0	
Брой на допустимите разлики (при дов.в.96%)	6	

Оценка на точността от обработката на гирусите (многократните измервания)		
Средна квадратна грешка за измерена посока	mr=	0.0[cc]
Средна кв. грешка за измерено разстояние 1km	ms=	0.0[mm]
Средна кв. грешка за измерено превишение (ед.теж)	mh=	0.0[mm]
Средна квадратна грешка за измерен зенитен ъгъл	mz=	0.0[cc]

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#
#      ПРЕДВАРИТЕЛНА ОБРАБОТКА НА ПЛАНОВА МРЕЖА      #
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ПЛАНОВА МРЕЖА: Координатна система - 1970г.

Зона..... 5

Клас на плновата мрежа..... 8

Средна квадратна грешка за посока..... 30[cc]

Константи на далекомера..... a=5, b=5

Точност на центриране на инструмента..... 5[mm]

Точност на центриране на сигнала..... 5[mm]

Брой дадени точки..... 11

Брой новоопределяеми точки..... 3

Брой отчетени посоки..... 28

Брой измерени посоки в мрежата..... 15

Брой отчетени разстояния..... 28

Брой измерени разстояния в мрежата..... 15

I. Точки с по малко от три определящи елемента - няма.

II. Едностранны измервания

---> От лт5(5) към лт2(5) посока
Едностранны измерени посоки - 1 бр.

---> От лт5(5) към лт2(5) разстояние
Едностранны измерени разстояния - 1 бр.

III. Абрис на дадените точки:

No	Име (клас)	O
1	пт6(5)	132.4651
2	пт14(5)	196.7143
3	лт2(5)	263.2704
4	лт5(5)	209.1385
5	лт7(5)	62.3854

16. Оценка на точността от разликите от измерените и изчислените дължини м/у дадените точки	
Максимално [несъвпадение, поправка, разлика]	-23.0 [mm]
Минимално [несъвпадение, поправка, разлика]	-1.5 [mm]
Средно аритметична стойност $[pw]/n$	-8.7 [mm]
Вероятна грешка $ pw [i] (i=n/2)$	8.4 [mm]
Средно аритметична грешка $[pw]/n$	9.6 [mm]
Асиметрия $([pw^3]/n)/(m^3)$	-1.2 [mm]
Ексцес $([pw^4]/n)/(m^4)-3$	-1.2 [mm]
Средна квадратна грешка за единица тежест	13.2 [mm]
СКГ за ед. тежест от всички несъвпадения	13.2 [mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.73 : 0.64$	
Брой на допустимите разлики n	6
Брой на недопустимите разлики m	0
Брой на положителните грешки	1
Брой на отрицателните грешки	5
Брой на разликите (положителни-отрицателни)	-4
Брой на допустимите разлики (при дов.в.96%)	4

IV. Пренасяне на ориентировачни ъгли

(Предварително ъглово изравнение на мрежата)

4. Оценка на точността от нормираните поправки от пренасянето на ориентировъчните ъгли	
Максимално [несъвпадение, поправка, разлика]	23.5 [cc]
Минимално [несъвпадение, поправка, разлика]	0.0 [cc]
Средно аритметична стойност $[pw]/n$	-0.0 [cc]
Вероятна грешка $ pw [i] (i=n/2)$	0.0 [cc]
Средно аритметична грешка $[pw]/n$	4.7 [cc]
Асиметрия $([pw^3]/n)/(m^3)$	-0.0 [cc]
Ексцес $([pw^4]/n)/(m^4)-3$	1.0 [cc]
Средна квадратна грешка за единица тежест	11.1 [cc]
СКГ за ед. тежест от всички несъвпадения	11.1 [cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.43 : 0.00$	
Брой на допустимите разлики n	10
Брой на недопустимите разлики m	0
Брой на положителните грешки	4
Брой на отрицателните грешки	6
Брой на разликите (положителни-отрицателни)	-2
Брой на допустимите разлики (при дов.в.96%)	6

V. Сумиране на ъглите в триъгълниците

VI. Сумиране на включени полигони

Включен полигон № 1
3 точки O(начало)= 87.2943 O(край)=196.7143

от точка	към точка	Rik	Rki	Sik
пт13(5)	лт16(8)	182.4115	252.5615	22.971
лт16(8)	пт14(5)	57.4880	277.9180	105.007
[S]= 127.978 Fx=-0.013 Fxd= 0.122 Fxi=-0.013				
Fb= 0.0000 Fy= 0.037 Fyd= 0.055 Fyi= 0.037				
Fbd= 0.0740 Fs= 0.040 Fsd= 0.134 Fsi= 0.040				

VII. Сумиране на затворени полигони

VIII. Приблизителни координати на точките

тт41(5)	4528141.289	9435178.636	-----	Дадена
пт5(5)	4528280.433	9435310.685	-----	Дадена
пт6(5)	4528300.055	9435345.473	132.4651	Дадена
пт13(5)	4528149.788	9435413.559	87.2943	Дадена
пт14(5)	4528098.507	9435296.397	196.7143	Дадена
пт15(5)	4528136.227	9435204.390	-----	Дадена
лт1(5)	4528141.147	9435216.638	-----	Дадена
лт2(5)	4528214.603	9435239.454	263.2704	Дадена
лт5(5)	4528249.756	9435199.893	209.1385	Дадена
лт6(5)	4528190.953	9435305.077	-----	Дадена

лт16(8) 4528139.262 9435393.147 217.1443 Полигон от пт13(5) до пт14(5)
 лт17(8) 4528297.933 9435374.816 185.5171 Права задача от пт6(5) W
 лт18(8) 4528283.962 9435398.859 232.3851 Права задача от лт17(8) W

IX. Абрис на всички точки:

13. Оценка на точността от свободните членове за ъгловите измервания	
Максимално [несъвпадение, поправка, разлика]	90.8 [cc]
Минимално [несъвпадение, поправка, разлика]	0.0 [cc]
Средно аритметична стойност [pw]/n	0.7 [cc]
Вероятна грешка pw [i] (i=n/2)	0.8 [cc]
Средно аритметична грешка [pw]/n	20.1 [cc]
Асиметрия ([pw ³]/n) / (m ³)	0.9 [cc]
Ексцес ([pw ⁴]/n) / (m ⁴) - 3	0.7 [cc]
Средна квадратна грешка за единица тежест	39.8 [cc]
СКГ за ед. тежест от всички несъвпадения	39.8 [cc]
m : s : r = 1 : 0.80 : 0.67 = 1 : 0.50 : 0.02	
Брой на допустимите разлики n	9
Брой на недопустимите разлики m	0
Брой на положителните грешки	4
Брой на отрицателните грешки	5
Брой на разликите (положителни-отрицателни)	-1
Брой на допустимите разлики (при дов.в.96%)	6

17. Оценка на точността от свободните членове за измерените дължини	
Максимално [несъвпадение, поправка, разлика]	-25.5 [mm]
Минимално [несъвпадение, поправка, разлика]	-0.7 [mm]
Средно аритметична стойност [pw]/n	-7.8 [mm]
Вероятна грешка pw [i] (i=n/2)	4.8 [mm]
Средно аритметична грешка [pw]/n	8.4 [mm]
Асиметрия ([pw ³]/n) / (m ³)	-1.6 [mm]
Ексцес ([pw ⁴]/n) / (m ⁴) - 3	-0.2 [mm]
Средна квадратна грешка за единица тежест	12.6 [mm]
СКГ за ед. тежест от всички несъвпадения	12.6 [mm]
m : s : r = 1 : 0.80 : 0.67 = 1 : 0.67 : 0.38	
Брой на допустимите разлики n	14
Брой на недопустимите разлики m	0
Брой на положителните грешки	3
Брой на отрицателните грешки	11
Брой на разликите (положителни-отрицателни)	-8
Брой на допустимите разлики (при дов.в.96%)	6

ОЦЕНКА НА ТОЧНОСТТА НА ИЗМЕРВАНИЯТА	
I. Средна квадратна грешка за посока получена от:	
1. двойната колимационна грешка.....	20.90 [cc]
3. абрисите на дадените точки.....	0.00 [cc]
4. пренасянето на ориентировъчните ъгли.....	11.08 [cc]
5. несъвпадения в триъгълниците.....	0.00 [cc]
6. ъглови несъвпадения във включените полигони.....	0.00 [cc]
7. несъвпадения fx във включените полигони.....	0.00 [cc]
8. несъвпадения fy във включените полигони.....	0.00 [cc]
9. ъглови несъвпадения в затворените полигони.....	0.00 [cc]
10. несъвпадения fx в затворените полигони.....	0.00 [cc]
11. несъвпадения fy в затворените полигони.....	0.00 [cc]
II. Средна квадратна грешка за зенитен ъгъл при:	
- едно положение на тръбата.....	24.96 [cc]
- две положения на тръбата.....	17.65 [cc]
III. Параметри за дължините от разликите в двустранните измервания:	
1. средна стойност.....	0.00 [mm]
2. средно квадратична стойност.....	0.00 [mm]

Средна квадратна грешка за измерена посока от всички оценки.
 Препоръчителна стойност за единица тежест: 28[cc]

ПАРАМЕТРИЧНО ИЗРАВНЕНИЕ НА ПЛАНОВА МРЕЖА #

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ДИМЕНСИИ:

Посоки и ъгли..... гради;

Поправки и ср. кв. граешки за посоки... сантисантигради;

Разстояния и координати..... метри;

Поправки и СКГ за разст. и координати.. милиметри;

Избраният модел на тежестите е:

Единицата тежест - едно насочване и отчитане

В тежестите на измерените ъгли и дължини се отчитат:

- броя на измерванията

- влиянието точността на центриране на инструмента и сигнала.

Средната квадратна грешка за единица тежест трябва да се получи близка до проспектната точност на инструмента.

ЗАБЕЛЕЖКА:

В изравнението участват осреднените стойности от многократните измервания (ако има такива).

РЕЗУЛТАТИ ОТ ИЗРАВНЕНИЕТО

Станция: пт6(5) - Дадена O=132.4651 (измерени 2 посоки и 2 дължини)						
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал	Разстояние	ms	mv
пт5(5)	134.8405	0.0	267.3056 0.0	39.940	0.0	0.0
лт17(8)	372.1315	0.0	104.5966 136.9	29.419	4.9	0.0
пт5(5)	39.9537	-13.4	267.3056 0.0	39.940	0.0	7.0
лт17(8)	29.4185	0.7	104.5966 136.9	29.419	4.9	4.9

Станция: пт13(5) - Дадена O= 87.2651 (измерени 1 посоки и 1 дължини)						
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал	Разстояние	ms	mv
лт16(8)	182.4115	0.0	269.6766 105.0	22.958	3.5	0.0
лт16(8)	22.9714	-13.8	269.6766 105.0	22.958	3.5	6.0

Станция: пт14(5) - Дадена O=196.7109 (измерени 3 посоки и 3 дължини)						
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал	Разстояние	ms	mv
тт41(5)	125.4685	48.7	322.1842 0.0	125.291	0.0	29.2
пт15(5)	128.0565	16.0	324.7690 0.0	99.439	0.0	34.8
лт16(8)	277.9180	-72.5	74.6216 23.0	104.992	3.5	30.4
тт41(5)	125.3145	-23.0	322.1842 0.0	125.291	0.0	7.3
пт15(5)	99.4450	-6.2	324.7690 0.0	99.439	0.0	7.2
лт16(8)	105.0090	-16.6	74.6216 23.0	104.992	3.5	6.3

Станция: лт2(5) - Дадена O=263.2704 (измерени 1 посоки и 1 дължини)						
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал	Разстояние	ms	mv
лт1(5)	355.9020	0.0	219.1724 0.0	76.918	0.0	0.0
лт1(5)	76.9284	-10.6	219.1724 0.0	76.918	0.0	7.1

Станция: лт5(5) - Дадена O=209.1385 (измерени 1 посоки и 1 дължини)						
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал	Разстояние	ms	mv
лт2(5)	337.1100	0.0	146.2485 0.0	52.923	0.0	0.0
лт2(5)	52.9199	2.7	146.2485 0.0	52.923	0.0	7.1

Станция: лт7(5) - Дадена O= 62.3854 (измерени 1 посоки и 1 дължини)						
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал	Разстояние	ms	mv
лт6(5)	142.9235	0.0	205.3089 0.0	35.211	0.0	0.0
лт6(5)	35.2129	-1.5	205.3089 0.0	35.211	0.0	7.0

Станция: лт16(8) - Нова O=217.1320 (измерени 2 посоки и 2 дължини)						
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал	Разстояние	ms	mv
пт14(5)	57.4880	15.2	274.6216 23.0	104.992	3.5	5.5
пт13(5)	252.5615	-168.2	69.6767 105.0	22.958	3.5	60.4
пт13(5)	22.9706	-13.0	69.6767 105.0	22.958	3.5	6.0
пт14(5)	105.0058	-13.4	274.6216 23.0	104.992	3.5	6.3

Станция: лт17(8) - Нова O=185.5170 (измерени 2 посоки и 2 дължини)							
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms	mv
пт6(5)	119.0795	0.0	304.5965	136.9	29.419	4.9	0.0
лт18(8)	347.9920	-0.0	133.5090	209.4	27.808	4.9	0.0
пт6(5)	29.4200	-0.7	304.5965	136.9	29.419	4.9	4.9
лт18(8)	27.8087	-0.9	133.5090	209.4	27.808	4.9	4.9

Станция: лт18(8) - Нова O=232.3849 (измерени 1 посоки и 1 дължини)							
към N	пос.(раз.)	п-ка	Посочен ъгъл Мал		Разстояние	ms	mv
лт17(8)	101.1240	-0.0	333.5089	209.4	27.808	4.9	0.0
лт17(8)	27.8070	0.9	333.5089	209.4	27.808	4.9	4.9

О Ц Е Н К А Н А Т О Ч Н О С Т Т А

Контролни суми и максимална по абсолютна стойност поправка:

[pvv]= 69665.4 [pff. 15]= 69665.4 |v|max= 168.2 (nor)|v|max= 129.8

Средна квадратна грешка за единица тежест Me = 41.2[cc]

Зададена точност на центриране:

- на инструмента 5.0[mm]
- на сигнала 5.0[mm]

Средната квадратна грешка за измерена посока при едно положение на тръбата с отчитане влиянието точността на центриране на инструмента и сигнала е:

- за разстояние 50 метра m_r= 96.7
- за разстояние 100 метра m_r= 60.1
- за разстояние 1000 метра m_r= 41.5

СПИСЪК НА ДАДЕНИТЕ ТОЧКИ

No	Име (клас)	X	Y
1	тт41(5)	4528141.289	9435178.636
2	пт5(5)	4528280.433	9435310.685
3	пт6(5)	4528300.055	9435345.473
4	пт13(5)	4528149.788	9435413.559
5	пт14(5)	4528098.507	9435296.397
6	пт15(5)	4528136.227	9435204.390
7	лт1(5)	4528141.147	9435216.638
8	лт2(5)	4528214.603	9435239.454
9	лт5(5)	4528249.756	9435199.893
10	лт6(5)	4528190.953	9435305.077
11	лт7(5)	4528226.042	9435308.010

СПИСЪК НА НОВИТЕ ТОЧКИ

(Полуоси на елипсите на грешките при доверителна вероятност 68%)

No	Име (клас)	X	m _x	Y	m _y	ms	R _{max}	R _{min}	Fi
1	лт16(8)	4528139.262	3.8	9435393.157	3.6	5.2	3.8	3.5	186.5
2	лт17(8)	4528297.933	6.3	9435374.816	4.9	8.0	6.3	4.9	2.3
3	лт18(8)	4528283.962	13.2	9435398.859	8.1	15.5	13.9	6.9	13.4

Максимална ср. кв. грешка ms = 15.50 в лт18(8) пореден номер 3

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#           ПРЕДВАРИТЕЛНА ОБРАБОТКА НА НИВЕЛАЧНА МРЕЖА
#           (тригонометрична нивелация)
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ВИСОЧИННА МРЕЖА: Височинна система - Балтийска

Клас на височинната мрежа:..... 6

Средна квадратна грешка за зенитен ъгъл:.. 50[cc]

Средна квадратна грешка за превишение:.... 50[mm]

Точност на височината на инструмента:..... 5[mm]

Точност на височината на сигнала:..... 5[mm]

Брой дадени репери:..... 11

Брой новоопределяеми точки..... 4

Брой отчетени първишения..... 28

Брой измерени превишения в мрежата..... 15

I. Едностранно измерени превиишения

---> От пт6(5) към пт5(5)
 ---> От пт14(5) към тт41(5)
 ---> От пт14(5) към пт15(5)
 ---> От лт2(5) към лт1(5)
 ---> От лт5(5) към лт2(5)
 ---> От лт7(5) към лт6(5)

Едностранно измерени превиишения - 6 бр.

II. Точки с по малко от две определящи превиишения

---> лт18(8) - 1 бр.

Точки с по малко от две определящи превиишения - 1 бр.

III. Сумиране на включени нивелачни ходове

Включен нивелачен ход № 1 от 3 точки

от точка	към точка	hik	p	Sik
пт13(5)	лт16(8)	-2.0095	5.2607	22.971
лт16(8)	пт14(5)	-5.0841	2.3739	105.007
Fh= -0.0024 Fhd=0.130		pFh=1.636 [S]= 127.978		

Включен нивелачен ход № 2 от 4 точки

от точка	към точка	hik	p	Sik
пт13(5)	лт16(8)	-2.0095	5.2607	22.971
лт16(8)	пт14(5)	-5.0841	2.3739	105.007
пт14(5)	пт15(5)	-0.4544	1.2620	99.445
Fh= -0.0050 Fhd=0.140		pFh=0.712 [S]= 227.423		

IV. Сумиране на затворени нивелачни ходове

V. Изчисляване на приблизителни височини

лт16(8) H= 234.7148 Нивелачен ход от пт13(5) до пт14(5)
 лт17(8) H= 244.2283 Определена от пт6(5)
 лт18(8) H= 246.4793 Определена от лт17(8)

ОЦЕНКА НА ТОЧНОСТТА НА ИЗМЕРВАНИЯТА

I. Средна квадратна грешка за превиишение получена от:

15. разликите в двустранно измерените превиишения..... 0.00 [mm]
 18. несъвпадения във включените нивелачни ходове..... 0.00 [mm]
 19. несъвпадения в затворените нивелачни ходове..... 0.00 [mm]

ПАРАМЕТРИЧНО ИЗРАВНЕНИЕ НА НИВЕЛАЧНА МРЕЖА

ДИМЕНСИИ:

Коти и превиишения..... метри;

Разстояния..... метри;

Поправки..... милиметри;

Средни кв. грешки за превиишения..... милиметри;

ТРИГОНОМЕТРИЧНА НИВЕЛАЦИЯ

В изравнението участват усреднените стойности от многократно измерените превиишения (ако има такива).

Средната квадратна грешка за единица тежест е за разстояние S=57.0m и зенитен ъгъл Z=100g.

В средната квадратна грешка за единица тежест не е включено влиянието на грешката от измерването височината на инструмента и сигнала.

РЕЗУЛТАТИ ОТ ИЗРАВНЕНИЕТО

От точка	Към точка	Измерено h' [m]	mh'	Изравнено h [m]	mh	Поправка v [mm]	mv	Разстояние [m]
пт6(5)	лт17(8)	2.7621	2.9	2.7623	2.0	0.2	2.0	29.42
пт6(5)	пт5(5)	-3.9928	3.0	-3.9960	0.0	-3.2	3.0	39.95
пт13(5)	лт16(8)	-2.0111	2.8	-2.0102	1.7	0.9	2.3	22.97
пт14(5)	лт16(8)	5.0712	4.2	5.0858	1.7	14.6	3.9	105.01
пт14(5)	тт41(5)	-0.8702	4.7	-0.8650	0.0	5.2	4.7	125.31
пт14(5)	пт15(5)	-0.4544	4.1	-0.4570	0.0	-2.6	4.1	99.45
лт2(5)	лт1(5)	-2.5497	3.6	-2.5520	0.0	-2.3	3.6	76.93

лт5(5)	лт2(5)	3.1159	3.2	3.1160	0.0	0.1	3.2	52.92
лт7(5)	лт6(5)	-3.1878	2.9	-3.1840	0.0	3.8	2.9	35.21
лт17(8)	лт18(8)	2.2500	2.9	2.2510	2.0	1.1	2.0	27.81
лт17(8)	пт6(5)	-2.7624	2.9	-2.7623	2.0	0.2	2.0	29.42
лт18(8)	лт17(8)	-2.2521	2.9	-2.2510	2.0	1.1	2.0	27.81
лт16(8)	пт13(5)	2.0079	2.8	2.0102	1.7	2.3	2.3	22.97
лт16(8)	пт14(5)	-5.0970	4.2	-5.0858	1.7	11.3	3.9	105.01

ОЦЕНКА НА ТОЧНОСТТА

Контролни суми и максимална по абсолютна стойност поправка:

[pvv]= 526 [pff. 3]= 526 |v|max= 14.6

Средна квадратна грешка за единица тежест Me = 4.6[mm]

Средната квадратна грешка за измерено превишение без да е включено влиянието на грешката от измерването на височината на инструмента и сигнала е:

- за разстояние 50 метра m_r= 4.0
- за разстояние 100 метра m_r= 8.0
- за разстояние 1000 метра m_r= 80.5

СПИСЪК НА ДАДЕНИТЕ РЕПЕРИ

No	Име (клас)	клас	H
1	тт41(5)	5	228.76400
2	пт5(5)	5	237.47000
3	пт6(5)	5	241.46600
4	пт13(5)	5	236.72500
5	пт14(5)	5	229.62900
6	пт15(5)	5	229.17200
7	лт1(5)	5	229.46200
8	лт2(5)	5	232.01400
9	лт5(5)	5	228.89800
10	лт6(5)	5	233.12300
11	лт7(5)	5	236.30700

СПИСЪК НА НОВИТЕ РЕПЕРИ

No	Име (клас)	клас	H	m _h
1	лт16(8)	6	234.71476	1.66
2	лт17(8)	6	244.22826	2.04
3	лт18(8)	6	246.47930	2.88

Максимална средна квадратна грешка m_h= 2.88 в т.лт18(8) 3

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# ПОЛЯРНА ГЕОДЕЗИЧЕСКА СНИМКА
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Координатна система - 1970г.

Зона..... 5

Височинна система - Балтийска

Средна квадратна грешка за посока..... 30[cc]

Константи на далекомера..... a=5, b=5, c=0

Точност на центриране на инструмента..... 5[mm]

Точност на центриране на сигнала..... 5[mm]

Средна квадратна грешка за зенитен ъгъл:.. 50[cc]

Средна квадратна грешка за превишение:.... 50[mm]

Точност на височината на инструмента:..... 5[mm]

Точност на височината на сигнала:..... 5[mm]

Брой станции с подробни точки:..... 9

Брой измерени подробни точки:..... 213

Станция: пт14 (5) Ih = 1.667								
Име (клас)	X	Y	H	O	V			
тт41(5)	4528141.289	9435178.636	228.764	196.7153	-0.0044			
тт41(5)	4528141.289	9435178.636	228.764	196.7162	-0.0053			
пт15(5)	4528136.227	9435204.390	229.172	196.7100	0.0009			
пт15(5)	4528136.227	9435204.390	229.172	196.7149	-0.0041			
лт16(8)	4528139.262	9435393.157	234.715	196.7017	0.0092			
лт16(8)	4528139.262	9435393.157	234.715	196.7056	0.0053			
пт14(5)	4528098.507	9435296.397	229.629	196.7109				
Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
тт41(5)	1.445	125.469	100.555	125.305	125.315	0.001	0.025	0.005
тт41(5)	1.445	125.468	100.555	125.305	125.315	0.002	0.025	0.005
пт15(5)	1.445	128.059	100.434	99.435	99.444	-0.003	0.004	-0.003
пт15(5)	1.445	128.054	100.433	99.437	99.446	0.003	0.009	-0.003
лт16(8)	1.940	277.920	96.763	105.133	105.009	0.007	-0.021	0.015
лт16(8)	1.940	277.916	96.763	105.133	105.009	0.001	-0.019	0.015
5	2.540	139.895	98.960	46.214	46.215	4528123.640	9435257.614	229.511
6	2.540	139.963	98.783	46.207	46.205	4528123.677	9435257.649	229.639
7	2.540	149.491	98.261	30.163	30.156	4528118.521	9435273.840	229.580
8	2.540	149.578	98.013	30.178	30.168	4528118.560	9435273.858	229.698
9	1.445	171.296	100.900	17.674	17.675	4528113.997	9435287.884	229.601
10	1.445	171.539	100.034	17.699	17.702	4528114.052	9435287.930	229.842
11	1.445	222.431	97.630	20.656	20.645	4528118.226	9435302.511	230.620
12	1.445	204.328	97.683	21.605	21.594	4528120.098	9435296.749	230.637
13	1.445	242.497	97.336	37.026	36.999	4528128.708	9435317.770	231.400
14	1.445	241.615	97.481	29.062	29.044	4528122.445	9435312.845	231.001
15	1.445	239.201	97.287	21.317	21.301	4528116.508	9435307.786	230.759
16	1.445	188.280	97.619	24.216	24.203	4528122.040	9435290.744	230.757
17	1.445	185.055	97.802	23.270	23.260	4528120.819	9435289.826	230.654
18	1.670	159.789	98.663	34.487	34.485	4528125.250	9435274.625	230.350
19	1.590	148.085	99.231	49.743	49.747	4528130.693	9435258.466	230.307
20	2.540	145.780	98.039	46.346	46.331	4528127.185	9435260.008	230.184
21	2.540	149.288	97.778	40.135	40.117	4528125.036	9435266.305	230.157
22	1.445	170.276	98.824	23.438	23.438	4528118.863	9435284.780	230.284
23	1.445	198.760	97.190	17.720	17.705	4528116.168	9435295.138	230.633
24	2.540	245.804	97.461	74.220	74.172	4528156.745	9435342.330	231.716
25	2.540	245.991	97.436	73.610	73.561	4528156.131	9435342.121	231.720
26	2.540	246.874	97.306	67.761	67.710	4528150.959	9435339.216	231.623
27	1.445	248.361	97.749	66.989	66.957	4528149.373	9435339.939	232.219
28	1.445	256.837	97.802	71.454	71.422	4528146.119	9435349.635	232.318
29	1.940	257.916	97.494	69.495	69.452	4528143.921	9435348.943	232.091
30	1.445	270.104	97.722	80.205	80.166	4528138.428	9435365.915	232.721

Станция: лт16(8) Ih = 1.620								
Име (клас)	X	Y	H	O	V			
пт13(5)	4528149.788	9435413.559	236.725	217.1167	0.0153			
пт13(5)	4528149.788	9435413.559	236.725	217.1137	0.0184			
пт14(5)	4528098.507	9435296.397	229.629	217.1356	-0.0036			
пт14(5)	4528098.507	9435296.397	229.629	217.1315	0.0005			
лт16(8)	4528139.262	9435393.157	234.715	217.1320				
Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
пт13(5)	1.445	252.560	94.931	23.041	22.971	-0.001	-0.014	0.002
пт13(5)	1.445	252.563	94.930	23.041	22.971	-0.000	-0.015	0.002
пт14(5)	1.940	57.486	102.895	105.101	105.004	0.010	0.009	0.011
пт14(5)	1.940	57.490	102.895	105.104	105.007	0.005	0.014	0.011
35	1.445	222.884	94.835	15.694	15.645	4528151.916	9435402.356	236.162
36	1.445	201.451	95.371	18.210	18.165	4528156.658	9435398.384	236.213
37	1.445	201.905	95.640	21.234	21.187	4528159.509	9435399.398	236.343
38	1.445	193.746	95.654	21.370	21.323	4528160.275	9435396.783	236.348
39	1.445	191.590	95.566	17.656	17.616	4528156.712	9435395.563	236.119
40	1.445	182.054	95.483	16.761	16.721	4528155.982	9435392.943	236.078
41	1.445	169.426	94.399	12.048	12.003	4528150.998	9435390.641	235.948
42	1.445	193.737	94.281	10.377	10.337	4528149.448	9435394.913	235.821
43	1.445	197.284	95.285	15.942	15.901	4528154.756	9435396.727	236.069
44	1.445	216.039	94.784	13.388	13.345	4528150.836	9435399.800	235.985
45	1.445	141.072	96.307	17.766	17.739	4528153.313	9435382.330	235.920
46	1.445	128.212	97.064	25.959	25.935	4528156.212	9435373.527	236.087
47	1.445	124.863	97.235	26.046	26.025	4528155.211	9435372.591	236.021
48	1.445	116.342	98.667	40.147	40.144	4528159.411	9435358.435	235.730
49	1.445	114.996	98.745	43.579	43.577	4528160.332	9435355.012	235.749
50	1.445	113.350	99.171	43.977	43.980	4528159.524	9435354.123	235.463
51	1.445	111.976	99.819	50.388	50.395	4528161.509	9435347.938	235.033
52	1.445	110.731	100.033	54.859	54.867	4528162.516	9435343.461	234.862
53	1.445	110.363	99.923	57.943	57.952	4528163.519	9435340.527	234.960
54	2.540	107.696	99.691	62.563	62.572	4528163.050	9435335.284	234.099
55	2.540	106.847	99.651	53.921	53.928	4528159.097	9435343.009	234.091
56	1.445	111.614	98.882	40.439	40.439	4528156.907	9435356.771	235.600
57	1.445	114.570	99.310	29.552	29.555	4528153.378	9435367.191	235.210
58	1.445	115.647	98.539	26.143	26.140	4528152.134	9435370.406	235.490
59	1.445	118.816	97.986	18.540	18.533	4528149.180	9435377.500	235.476
60	1.445	122.050	98.482	12.729	12.727	4528146.610	9435382.765	235.193
61	1.445	196.864	94.312	22.349	22.263	4528160.989	9435398.012	236.884
62	1.445	197.066	93.788	25.089	24.973	4528163.617	9435398.680	237.334
63	1.445	210.634	93.690	25.212	25.092	4528162.005	9435403.757	237.385

Станция: пт13(5) Ih = 1.555								
Име (клас)	X	Y	H	O	V			
лт16(8)	4528139.262	9435393.157	234.715	87.2667	-0.0015			
лт16(8)	4528139.262	9435393.157	234.715	87.2636	0.0015			
пт13(5)	4528149.788	9435413.559	236.725	87.2651				
Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт16(8)	1.445	182.410	105.862	23.067	22.972	0.007	0.012	0.001
лт16(8)	1.445	182.413	105.863	23.066	22.971	0.006	0.012	0.001
68	1.445	292.697	96.915	22.121	22.098	4528170.801	9435406.718	237.907

69	1.445	303.922	96.190	29.171	29.123	4528178.633	9435409.540	238.580
70	1.445	305.323	95.566	29.715	29.647	4528179.235	9435410.115	238.903
71	1.445	307.286	95.363	29.511	29.437	4528179.117	9435411.042	238.983
72	1.445	312.835	95.410	37.473	37.381	4528187.169	9435413.618	239.535
73	1.445	315.752	95.131	43.323	43.203	4528192.942	9435415.606	240.145
74	1.445	309.671	95.204	28.985	28.907	4528178.662	9435412.168	239.017
75	1.445	315.382	95.187	37.573	37.471	4528187.227	9435415.117	239.673
76	1.445	318.353	95.316	44.533	44.419	4528194.034	9435417.474	240.109

Станция: пт6(5) Ih = 1.600

Име (клас)	X	Y	H	O	V
пт5(5)	4528280.433	9435310.685	237.470	132.4676	-0.0025
пт5(5)	4528280.433	9435310.685	237.470	132.4625	0.0025
лт17(8)	4528297.933	9435374.816	244.228	132.4606	0.0045
лт17(8)	4528297.933	9435374.816	244.228	132.4695	-0.0045
пт6(5)	4528300.055	9435345.473	241.466	132.4651	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
пт5(5)	1.445	134.838	106.587	40.166	39.956	0.009	0.013	-0.003
пт5(5)	1.445	134.843	106.587	40.162	39.952	0.004	0.011	-0.003
лт17(8)	1.445	372.136	94.373	29.532	29.420	0.002	-0.001	0.000
лт17(8)	1.445	372.127	94.373	29.529	29.417	-0.002	0.002	0.000
79	1.445	75.099	104.505	2.536	2.530	4528297.543	9435345.173	241.442
80	1.445	75.358	104.575	2.051	2.046	4528298.024	9435345.222	241.474
81	1.445	13.919	97.814	3.264	3.263	4528297.883	9435347.907	241.733
82	1.445	21.843	97.888	3.602	3.601	4528297.343	9435347.841	241.740
83	1.445	397.289	94.982	6.918	6.898	4528296.947	9435351.631	242.166
84	1.445	25.781	94.967	8.400	8.375	4528293.418	9435350.580	242.284
85	1.445	41.395	103.342	6.843	6.835	4528293.789	9435348.201	241.262
86	1.445	11.828	105.831	4.857	4.837	4528296.954	9435349.186	241.177
87	1.445	24.146	108.095	3.827	3.797	4528297.107	9435347.865	241.136
88	1.445	44.362	106.025	5.005	4.983	4528295.398	9435347.247	241.148
89	1.445	79.271	107.967	3.998	3.967	4528296.155	9435344.746	241.122
90	1.445	89.364	106.462	4.979	4.954	4528295.389	9435343.807	241.116
91	1.445	90.991	102.911	9.711	9.702	4528291.004	9435341.979	241.177
92	1.445	107.426	101.940	10.753	10.750	4528291.348	9435339.169	241.293
93	1.445	107.512	102.536	18.505	18.493	4528285.090	9435334.608	240.884
94	1.445	381.172	94.024	18.644	18.565	4528296.109	9435363.613	243.369
95	1.445	382.326	92.422	18.594	18.465	4528295.803	9435363.442	243.829
96	1.445	394.549	93.548	18.366	18.274	4528292.531	9435362.127	243.479
97	1.445	394.387	92.378	18.520	18.390	4528292.526	9435362.251	243.833
98	1.445	395.520	94.391	16.618	16.556	4528293.009	9435360.455	243.083
99	1.445	4.109	95.616	17.052	17.014	4528290.809	9435359.756	242.794
100	1.445	3.800	94.252	17.130	17.063	4528290.852	9435359.841	243.166
101	1.445	9.303	96.635	17.526	17.504	4528289.377	9435359.343	242.547
102	1.445	14.683	96.273	14.031	14.009	4528290.603	9435355.813	242.442
103	1.445	9.798	96.203	13.540	13.518	4528291.726	9435356.120	242.428
104	1.445	13.380	95.912	11.780	11.757	4528292.301	9435354.311	242.377
105	1.445	389.029	95.543	10.670	10.645	4528296.529	9435355.517	242.367
106	1.445	396.213	95.680	11.600	11.575	4528295.015	9435355.893	242.408
107	1.445	396.407	91.590	26.016	25.793	4528288.754	9435368.659	245.048
108	1.445	397.021	91.232	24.409	24.181	4528289.251	9435367.107	244.972
109	1.445	397.854	93.119	22.800	22.670	4528289.662	9435365.621	244.081
110	1.445	399.520	92.310	19.718	19.577	4528290.628	9435362.631	243.997
111	1.445	400.116	94.271	18.625	18.552	4528290.969	9435361.648	243.295
112	1.445	5.362	95.532	18.796	18.753	4528289.557	9435361.011	242.939
113	1.445	11.633	96.541	19.336	19.310	4528287.723	9435360.333	242.671
114	1.445	13.596	96.374	15.986	15.962	4528289.487	9435357.437	242.531
115	1.445	19.900	96.019	12.778	12.755	4528290.707	9435354.151	242.420

Станция: лт17(8) Ih = 1.507

Име (клас)	X	Y	H	O	V
пт6(5)	4528300.055	9435345.473	241.466	185.5165	0.0005
пт6(5)	4528300.055	9435345.473	241.466	185.5174	-0.0005
лт18(8)	4528283.962	9435398.859	246.479	185.5190	-0.0020
лт18(8)	4528283.962	9435398.859	246.479	185.5149	0.0020
лт17(8)	4528297.933	9435374.816	244.228	185.5170	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
пт6(5)	1.445	119.080	106.094	29.553	29.421	-0.000	0.002	0.000
пт6(5)	1.445	119.079	106.094	29.551	29.419	0.000	-0.000	0.000
лт18(8)	1.445	347.990	95.001	27.891	27.808	-0.001	-0.001	0.001
лт18(8)	1.445	347.994	95.001	27.892	27.809	0.001	-0.001	0.001
120	1.445	44.076	102.308	3.500	3.498	4528294.806	9435373.247	244.163
121	1.445	77.869	102.004	4.571	4.569	4528295.447	9435370.981	244.146
122	1.445	82.026	102.567	4.254	4.251	4528295.858	9435371.105	244.119
123	1.445	48.730	102.255	2.575	2.574	4528295.722	9435373.497	244.199
124	1.445	22.826	98.863	2.247	2.247	4528295.705	9435374.522	244.330
125	1.445	28.024	91.497	4.849	4.807	4528293.235	9435373.801	244.936
126	1.445	40.909	91.687	4.869	4.828	4528293.514	9435372.868	244.924
127	1.445	68.537	93.211	5.648	5.617	4528294.222	9435370.599	244.891
128	1.445	64.427	94.252	6.525	6.499	4528293.333	9435370.224	244.879
129	1.445	77.596	95.020	7.571	7.549	4528293.799	9435368.499	244.882
130	1.445	65.756	96.248	10.386	10.370	4528290.748	9435367.338	244.902
131	1.445	72.429	101.292	10.974	10.973	4528291.200	9435366.151	244.068
132	1.445	54.187	95.615	10.077	10.055	4528289.771	9435368.944	244.984
133	1.445	30.459	93.606	10.024	9.975	4528288.270	9435372.339	245.295
134	1.445	30.213	94.805	10.006	9.974	4528288.261	9435372.376	245.106
135	1.445	394.168	95.491	13.335	13.304	4528285.301	9435378.989	245.234
136	1.445	380.029	94.533	10.578	10.541	4528288.899	9435380.246	245.198
137	1.445	383.912	94.345	9.812	9.775	4528289.263	9435379.331	245.161
138	1.445	376.516	93.736	8.773	8.732	4528290.708	9435379.720	245.152
139	1.445	368.879	93.523	10.335	10.283	4528290.177	9435381.568	245.340
140	1.445	367.886	92.061	10.685	10.604	4528290.045	9435381.902	245.619
141	0.060	358.117	99.051	14.764	14.765	4528288.587	9435386.246	245.895
142	1.445	347.105	92.949	14.229	14.144	4528290.998	9435387.143	245.863
143	1.445	343.963	93.299	15.848	15.763	4528290.892	9435388.918	245.955
144	1.445	329.677	94.338	15.682	15.622	4528294.240	9435389.995	245.683

145	1.445	352.557	92.907	12.461	12.386	4528290.959	9435385.051	245.676
146	1.445	81.699	102.479	9.191	9.185	4528293.409	9435366.821	243.932
147	1.445	78.229	102.775	7.636	7.630	4528293.819	9435368.390	243.958
148	1.445	66.336	101.234	10.321	10.321	4528290.850	9435367.309	244.090
149	1.445	64.986	99.856	6.451	6.452	4528293.407	9435370.217	244.305
150	1.445	376.686	93.924	11.161	11.112	4528288.722	9435381.032	245.354
151	1.445	375.392	92.085	11.502	11.415	4528288.603	9435381.393	245.717
152	1.445	361.322	92.981	17.117	17.016	4528286.513	9435387.430	246.174

Станция: лт18(8) Ih = 1.602

Име (клас)	X	Y	H	O	V
лт17(8)	4528297.933	9435374.816	244.228	232.3880	-0.0030
лт17(8)	4528297.933	9435374.816	244.228	232.3819	0.0030
лт18(8)	4528283.962	9435398.859	246.479	232.3849	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт17(8)	1.445	101.121	105.503	27.909	27.808	0.001	0.001	0.001
лт17(8)	1.445	101.127	105.502	27.907	27.806	-0.000	-0.002	0.001
157	1.445	88.981	103.200	11.723	11.710	4528287.819	9435387.803	246.047
158	1.445	99.337	103.198	11.875	11.862	4528289.631	9435388.440	246.040
159	1.445	102.662	103.020	9.592	9.583	4528288.975	9435390.693	246.181
160	1.445	89.442	96.603	9.293	9.281	4528287.083	9435390.118	247.132
161	1.445	87.843	97.110	11.650	11.640	4528287.599	9435387.802	247.165
162	1.445	88.246	95.968	7.956	7.941	4528286.491	9435391.332	247.140
163	1.445	105.706	103.298	8.235	8.225	4528288.595	9435392.063	246.210
164	1.445	86.612	102.386	7.871	7.867	4528286.275	9435391.340	246.341
165	1.445	79.827	102.201	7.932	7.928	4528285.474	9435391.076	246.362
166	1.445	10.687	105.941	1.440	1.434	4528282.844	9435397.962	246.502
167	1.445	341.122	105.435	1.932	1.925	4528282.201	9435399.638	246.472
168	1.445	361.288	118.819	3.260	3.119	4528280.859	9435399.169	245.687
169	1.445	399.809	121.400	2.880	2.719	4528281.584	9435397.542	245.686
170	1.445	394.654	114.750	4.971	4.839	4528279.553	9435396.865	245.495
171	1.445	371.645	113.765	5.092	4.974	4528278.998	9435398.545	245.544
172	1.445	376.673	119.637	7.093	6.759	4528277.271	9435397.901	244.483
173	1.445	392.725	119.841	7.014	6.677	4528277.798	9435396.294	244.486
174	1.445	391.584	116.816	9.238	8.919	4528275.668	9435395.580	244.224
175	1.445	379.515	116.296	9.275	8.974	4528275.145	9435397.192	244.288
176	1.445	380.996	119.052	10.957	10.472	4528273.721	9435396.675	243.406
177	1.445	391.778	119.125	10.918	10.431	4528274.274	9435394.995	243.405
178	1.445	391.191	117.357	12.957	12.480	4528272.328	9435394.343	243.147
179	1.445	382.333	117.573	12.910	12.423	4528271.870	9435396.013	243.118
180	1.445	382.411	118.058	13.051	12.531	4528271.768	9435395.973	242.984
181	1.445	391.367	117.649	13.056	12.559	4528272.267	9435394.282	243.063
182	1.445	385.613	113.146	20.997	20.554	4528264.224	9435393.126	242.331
183	1.445	364.343	110.544	22.409	22.106	4528261.886	9435399.995	242.942
184	2.540	336.254	104.099	30.033	29.975	4528257.551	9435413.036	243.609
185	1.445	338.150	104.764	2.088	2.082	4528282.099	9435399.789	246.480
186	1.445	368.913	107.925	5.145	5.106	4528278.858	9435398.755	245.997
187	1.445	377.943	114.483	9.322	9.083	4528274.999	9435397.392	244.534
188	1.445	381.260	114.618	12.918	12.581	4528271.669	9435396.184	243.696
189	1.445	382.338	114.550	15.153	14.761	4528269.594	9435395.476	243.203

Станция: лт7(5) Ih = 1.517

Име (клас)	X	Y	H	O	V
лт6(5)	4528190.953	9435305.077	233.123	62.3880	-0.0025
лт6(5)	4528190.953	9435305.077	233.123	62.3829	0.0025
лт7(5)	4528226.042	9435308.010	236.307	62.3854	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт6(5)	1.445	142.921	105.877	35.359	35.212	0.001	-0.001	0.004
лт6(5)	1.445	142.926	105.877	35.360	35.213	0.002	0.001	0.004
192	1.445	131.069	103.568	50.942	50.870	4528175.441	9435313.231	233.526
193	1.445	118.599	100.425	26.266	26.269	4528200.936	9435315.740	236.204
194	1.445	112.622	100.140	23.494	23.497	4528204.332	9435317.000	236.327
195	1.445	112.655	100.025	21.358	21.361	4528206.302	9435316.172	236.371
196	1.445	103.913	99.581	18.582	18.584	4528210.001	9435317.395	236.501
197	1.445	93.016	98.814	16.459	16.459	4528213.460	9435318.620	236.686
198	1.445	79.004	98.491	14.905	14.903	4528217.021	9435319.873	236.732
199	1.445	76.685	98.305	16.266	16.263	4528216.676	9435321.305	236.812
200	1.445	63.203	97.977	15.669	15.663	4528219.914	9435322.425	236.877

Станция: лт2(5) Ih = 1.649

Име (клас)	X	Y	H	O	V
лт1(5)	4528141.147	9435216.638	229.462	263.2704	-0.0000
лт1(5)	4528141.147	9435216.638	229.462	263.2703	0.0000
лт2(5)	4528214.603	9435239.454	232.014	263.2704	

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт1(5)	1.445	355.902	102.279	76.969	76.928	0.010	0.003	-0.002
лт1(5)	1.445	355.902	102.279	76.969	76.928	0.010	0.003	-0.002
203	1.445	95.369	104.626	20.806	20.754	4528231.129	9435226.899	230.708
204	1.445	99.133	104.870	18.881	18.829	4528230.242	9435228.970	230.775
205	1.445	99.415	101.265	18.728	18.727	4528230.204	9435229.095	231.846
206	1.445	102.257	101.430	17.499	17.497	4528229.597	9435230.436	231.825
207	1.445	102.494	104.614	17.470	17.427	4528229.570	9435230.528	230.953
208	1.445	113.612	104.537	14.242	14.208	4528227.884	9435234.407	231.204
209	1.445	123.467	102.728	16.954	16.941	4528231.178	9435235.950	231.492
210	1.445	123.568	101.327	16.998	16.997	4528231.238	9435235.965	231.864
211	1.445	130.471	101.112	20.214	20.214	4528234.719	9435237.470	231.865
212	1.445	130.525	101.780	20.263	20.258	4528234.765	9435237.483	231.652
213	1.445	133.645	101.859	19.683	19.678	4528234.257	9435238.501	231.643
214	1.445	127.128	102.104	16.447	16.440	4528230.857	9435236.984	231.675
215	1.445	133.251	101.579	21.925	21.922	4528236.492	9435238.257	231.674
216	1.445	133.284	101.168	21.957	21.957	4528236.527	9435238.266	231.815
217	1.445	135.213	101.055	23.360	23.360	4528237.957	9435238.897	231.831
218	1.445	135.254	101.722	23.403	23.398	4528237.995	9435238.912	231.585
219	1.445	137.374	101.075	22.991	22.991	4528237.593	9435239.687	231.830

220	1.445	138.466	101.622	22.875	22.871	4528237.465	9435240.078	231.635
221	1.445	136.556	101.661	21.402	21.398	4528236.001	9435239.396	231.660
222	1.445	135.532	101.177	21.599	21.599	4528236.198	9435239.048	231.819

		Станция:		лт5(5)		Ih = 1.604	
Име (клас)	X	Y	H	O	V		
лт2(5)	4528214.603	9435239.454	232.014	209.1355	0.0030		
лт2(5)	4528214.603	9435239.454	232.014	209.1414	-0.0030		
лт5(5)	4528249.756	9435199.893	228.898	209.1385			

Име (клас)	Th	R	Z	S	D	X(Vx)	Y(Vy)	H(Vh)
лт2(5)	1.445	337.113	96.446	52.997	52.920	0.000	0.003	0.000
лт2(5)	1.445	337.107	96.447	52.996	52.919	-0.004	0.001	0.000
225	1.940	322.344	95.630	32.336	32.265	4528234.443	9435228.292	230.780
226	1.940	322.458	95.305	31.506	31.425	4528234.792	9435227.526	230.884
227	1.940	322.597	94.719	30.076	29.977	4528235.424	9435226.222	231.054
228	1.445	322.192	94.414	31.493	31.377	4528234.930	9435227.546	231.817
229	1.445	322.023	94.478	32.364	32.247	4528234.594	9435228.354	231.861
230	1.445	314.669	94.443	32.268	32.150	4528238.011	9435229.821	231.870
231	1.445	314.648	94.324	31.455	31.335	4528238.319	9435229.066	231.858
232	1.445	314.482	95.334	30.102	30.026	4528238.870	9435227.876	231.261
233	1.445	314.495	95.667	32.212	32.142	4528238.096	9435229.846	231.248
234	1.940	310.860	94.764	32.387	32.282	4528239.781	9435230.596	231.223
235	1.940	310.378	94.451	30.857	30.744	4528240.478	9435229.204	231.248
236	1.940	310.716	94.538	32.410	32.296	4528239.846	9435230.631	231.339
237	1.445	310.420	94.361	31.508	31.389	4528240.264	9435229.812	231.844
238	1.445	307.334	94.378	31.691	31.572	4528241.678	9435230.414	231.852
239	1.445	307.756	94.543	32.569	32.454	4528241.244	9435231.211	231.845
240	1.940	307.615	94.505	32.581	32.465	4528241.311	9435231.240	231.371
241	1.940	307.010	94.268	31.093	30.972	4528241.984	9435229.874	231.358

21. Оценка на точността от нормираните поправки от абриса на геодезическата снимка

Максимално [несъвпадение, поправка, разлика]	70.6 [cc]
Минимално [несъвпадение, поправка, разлика]	0.3 [cc]
Средно аритметична стойност $[pw]/n$	1.7 [cc]
Вероятна грешка $ pw [i] (i=n/2)$	11.1 [cc]
Средно аритметична грешка $ pw /n$	17.7 [cc]
Асиметрия $([pw^3]/n)/(m^3)$	0.7 [cc]
Ексцес $([pw^4]/n)/(m^4)-3$	0.7 [cc]
Средна квадратна грешка за единица тежест	24.9 [cc]
СКГ за ед. тежест от всички несъвпадения	24.9 [cc]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.71 : 0.45$	
Брой на допустимите разлики n	28
Брой на недопустимите разлики m	0
Брой на положителните грешки	15
Брой на отрицателните грешки	13
Брой на разликите (положителни-отрицателни)	2
Брой на допустимите разлики (при дов.в.96%)	10

22. Оценка на точността от координатните разлики dx на геодезическата снимка

Максимално [несъвпадение, поправка, разлика]	10.2 [mm]
Минимално [несъвпадение, поправка, разлика]	-0.1 [mm]
Средно аритметична стойност $[pw]/n$	2.6 [mm]
Вероятна грешка $ pw [i] (i=n/2)$	2.2 [mm]
Средно аритметична грешка $ pw /n$	3.5 [mm]
Асиметрия $([pw^3]/n)/(m^3)$	1.6 [mm]
Ексцес $([pw^4]/n)/(m^4)-3$	0.0 [mm]
Средна квадратна грешка за единица тежест	4.9 [mm]
СКГ за ед. тежест от всички несъвпадения	4.9 [mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.71 : 0.44$	
Брой на допустимите разлики n	28
Брой на недопустимите разлики m	0
Брой на положителните грешки	20
Брой на отрицателните грешки	8
Брой на разликите (положителни-отрицателни)	12
Брой на допустимите разлики (при дов.в.96%)	10

23. Оценка на точността от координатните разлики dy на геодезическата снимка

Максимално [несъвпадение, поправка, разлика]	25.3 [mm]
Минимално [несъвпадение, поправка, разлика]	-0.2 [mm]
Средно аритметична стойност $[pw]/n$	2.7 [mm]
Вероятна грешка $ pw [i] (i=n/2)$	3.8 [mm]
Средно аритметична грешка $ pw /n$	8.0 [mm]
Асиметрия $([pw^3]/n)/(m^3)$	0.5 [mm]
Ексцес $([pw^4]/n)/(m^4)-3$	-0.1 [mm]
Средна квадратна грешка за единица тежест	11.3 [mm]
СКГ за ед. тежест от всички несъвпадения	11.3 [mm]
$m : s : r = 1 : 0.80 : 0.67 = 1 : 0.71 : 0.33$	
Брой на допустимите разлики n	28
Брой на недопустимите разлики m	0
Брой на положителните грешки	18
Брой на отрицателните грешки	10
Брой на разликите (положителни-отрицателни)	8
Брой на допустимите разлики (при дов.в.96%)	10

24. Оценка на точността от координатните разлики dh на геодезическата снимка		
Максимално[несъвпадение, поправка, разлика]	14.6 [mm]	
Минимално[несъвпадение, поправка, разлика]	0.1 [mm]	
Средно аритметична стойност [pw]/n	2.3 [mm]	
Вероятна грешка pw [i] (i=n/2)	2.3 [mm]	
Средно аритметична грешка[pw]/n	3.5 [mm]	
Асиметрия([pw^3]/n)/(m^3)	2.0 [mm]	
Ексцес ([pw^4]/n)/(m^4)-3	1.8 [mm]	
Средна квадратна грешка за единица тежест	5.5 [mm]	
СКГ за ед. тежест от всички несъвпадения	5.5 [mm]	
m : s : r = 1 : 0.80 : 0.67 = 1: 0.63 : 0.42		
Брой на допустимите разлики n	28	
Брой на недопустимите разлики m	0	
Брой на положителните грешки	22	
Брой на отрицателните грешки	6	
Брой на разликите (положителни-отрицателни)	16	
Брой на допустимите разлики (при дов.в.96%)	10	

Обект:

5	4528123.640	9435257.614	229.511
6	4528123.677	9435257.649	229.639
7	4528118.521	9435273.840	229.580
8	4528118.560	9435273.858	229.698
9	4528113.997	9435287.884	229.601
10	4528114.052	9435287.930	229.842
11	4528118.226	9435302.511	230.620
12	4528120.098	9435296.749	230.637
13	4528128.708	9435317.770	231.400
14	4528122.445	9435312.845	231.001
15	4528116.508	9435307.786	230.759
16	4528122.040	9435290.744	230.757
17	4528120.819	9435289.826	230.654
18	4528125.250	9435274.625	230.350
19	4528130.693	9435258.466	230.307
20	4528127.185	9435260.008	230.184
21	4528125.036	9435266.305	230.157
22	4528118.863	9435284.780	230.284
23	4528116.168	9435295.138	230.633
24	4528156.745	9435342.330	231.716
25	4528156.131	9435342.121	231.720
26	4528150.959	9435339.216	231.623
27	4528149.373	9435339.939	232.219
28	4528146.119	9435349.635	232.318
29	4528143.921	9435348.943	232.091
30	4528138.428	9435365.915	232.721
35	4528151.916	9435402.356	236.162
36	4528156.658	9435398.384	236.213
37	4528159.509	9435399.398	236.343
38	4528160.275	9435396.783	236.348
39	4528156.712	9435395.563	236.119
40	4528155.982	9435392.943	236.078
41	4528150.998	9435390.641	235.948
42	4528149.448	9435394.913	235.821
43	4528154.756	9435396.727	236.069
44	4528150.836	9435399.800	235.985
45	4528153.313	9435382.330	235.920
46	4528156.212	9435373.527	236.087
47	4528155.211	9435372.591	236.021
48	4528159.411	9435358.435	235.730
49	4528160.332	9435355.012	235.749
50	4528159.524	9435354.123	235.463
51	4528161.509	9435347.938	235.033
52	4528162.516	9435343.461	234.862
53	4528163.519	9435340.527	234.960
54	4528163.050	9435335.284	234.099
55	4528159.097	9435343.009	234.091
56	4528156.907	9435356.771	235.600
57	4528153.378	9435367.191	235.210
58	4528152.134	9435370.406	235.490
59	4528149.180	9435377.500	235.476
60	4528146.610	9435382.765	235.193
61	4528160.989	9435398.012	236.884
62	4528163.617	9435398.680	237.334
63	4528162.005	9435403.757	237.385
68	4528170.801	9435406.718	237.907
69	4528178.633	9435409.540	238.580
70	4528179.235	9435410.115	238.903
71	4528179.117	9435411.042	238.983
72	4528187.169	9435413.618	239.535
73	4528192.942	9435415.606	240.145
74	4528178.662	9435412.168	239.017
75	4528187.227	9435415.117	239.673
76	4528194.034	9435417.474	240.109
79	4528297.543	9435345.173	241.442
80	4528298.024	9435345.222	241.474
81	4528297.883	9435347.907	241.733
82	4528297.343	9435347.841	241.740
83	4528296.947	9435351.631	242.166
84	4528293.418	9435350.580	242.284
85	4528293.789	9435348.201	241.262
86	4528296.954	9435349.186	241.177
87	4528297.107	9435347.865	241.136
88	4528295.398	9435347.247	241.148
89	4528296.155	9435344.746	241.122

90	4528295.389	9435343.807	241.116
91	4528291.004	9435341.979	241.177
92	4528291.348	9435339.169	241.293
93	4528285.090	9435334.608	240.884
94	4528296.109	9435363.613	243.369
95	4528295.803	9435363.442	243.829
96	4528292.531	9435362.127	243.479
97	4528292.526	9435362.251	243.833
98	4528293.009	9435360.455	243.083
99	4528290.809	9435359.756	242.794
100	4528290.852	9435359.841	243.166
101	4528289.377	9435359.343	242.547
102	4528290.603	9435355.813	242.442
103	4528291.726	9435356.120	242.428
104	4528292.301	9435354.311	242.377
105	4528296.529	9435355.517	242.367
106	4528295.015	9435355.893	242.408
107	4528288.754	9435368.659	245.048
108	4528289.251	9435367.107	244.972
109	4528289.662	9435365.621	244.081
110	4528290.628	9435362.631	243.997
111	4528290.969	9435361.648	243.295
112	4528289.557	9435361.011	242.939
113	4528287.723	9435360.333	242.671
114	4528289.487	9435357.437	242.531
115	4528290.707	9435354.151	242.420
120	4528294.806	9435373.247	244.163
121	4528295.447	9435370.981	244.146
122	4528295.858	9435371.105	244.119
123	4528295.722	9435373.497	244.199
124	4528295.705	9435374.522	244.330
125	4528293.235	9435373.801	244.936
126	4528293.514	9435372.868	244.924
127	4528294.222	9435370.599	244.891
128	4528293.333	9435370.224	244.879
129	4528293.799	9435368.499	244.882
130	4528290.748	9435367.338	244.902
131	4528291.200	9435366.151	244.068
132	4528289.771	9435368.944	244.984
133	4528288.270	9435372.339	245.295
134	4528288.261	9435372.376	245.106
135	4528285.301	9435378.989	245.234
136	4528288.899	9435380.246	245.198
137	4528289.263	9435379.331	245.161
138	4528290.708	9435379.720	245.152
139	4528290.177	9435381.568	245.340
140	4528290.045	9435381.902	245.619
141	4528288.587	9435386.246	245.895
142	4528290.998	9435387.143	245.863
143	4528290.892	9435388.918	245.955
144	4528294.240	9435389.995	245.683
145	4528290.959	9435385.051	245.676
146	4528293.409	9435366.821	243.932
147	4528293.819	9435368.390	243.958
148	4528290.850	9435367.309	244.090
149	4528293.407	9435370.217	244.305
150	4528288.722	9435381.032	245.354
151	4528288.603	9435381.393	245.717
152	4528286.513	9435387.430	246.174
157	4528287.819	9435387.803	246.047
158	4528289.631	9435388.440	246.040
159	4528288.975	9435390.693	246.181
160	4528287.083	9435390.118	247.132
161	4528287.599	9435387.802	247.165
162	4528286.491	9435391.332	247.140
163	4528288.595	9435392.063	246.210
164	4528286.275	9435391.340	246.341
165	4528285.474	9435391.076	246.362
166	4528282.844	9435397.962	246.502
167	4528282.201	9435399.638	246.472
168	4528280.859	9435399.169	245.687
169	4528281.584	9435397.542	245.686
170	4528279.553	9435396.865	245.495
171	4528278.998	9435398.545	245.544
172	4528277.271	9435397.901	244.483
173	4528277.798	9435396.294	244.486
174	4528275.668	9435395.580	244.224
175	4528275.145	9435397.192	244.288
176	4528273.721	9435396.675	243.406
177	4528274.274	9435394.995	243.405
178	4528272.328	9435394.343	243.147
179	4528271.870	9435396.013	243.118
180	4528271.768	9435395.973	242.984
181	4528272.267	9435394.282	243.063
182	4528264.224	9435393.126	242.331
183	4528261.886	9435399.995	242.942
184	4528257.551	9435413.036	243.609
185	4528282.099	9435399.789	246.480
186	4528278.858	9435398.755	245.997
187	4528274.999	9435397.392	244.534
188	4528271.669	9435396.184	243.696
189	4528269.594	9435395.476	243.203
192	4528175.441	9435313.231	233.526
193	4528200.936	9435315.740	236.204
194	4528204.332	9435317.000	236.327
195	4528206.302	9435316.172	236.371
196	4528210.001	9435317.395	236.501
197	4528213.460	9435318.620	236.686
198	4528217.021	9435319.873	236.732
199	4528216.676	9435321.305	236.812

200	4528219.914	9435322.425	236.877
203	4528231.129	9435226.899	230.708
204	4528230.242	9435228.970	230.775
205	4528230.204	9435229.095	231.846
206	4528229.597	9435230.436	231.825
207	4528229.570	9435230.528	230.953
208	4528227.884	9435234.407	231.204
209	4528231.178	9435235.950	231.492
210	4528231.238	9435235.965	231.864
211	4528234.719	9435237.470	231.865
212	4528234.765	9435237.483	231.652
213	4528234.257	9435238.501	231.643
214	4528230.857	9435236.984	231.675
215	4528236.492	9435238.257	231.674
216	4528236.527	9435238.266	231.815
217	4528237.957	9435238.897	231.831
218	4528237.995	9435238.912	231.585
219	4528237.593	9435239.687	231.830
220	4528237.465	9435240.078	231.635
221	4528236.001	9435239.396	231.660
222	4528236.198	9435239.048	231.819
225	4528234.443	9435228.292	230.780
226	4528234.792	9435227.526	230.884
227	4528235.424	9435226.222	231.054
228	4528234.930	9435227.546	231.817
229	4528234.594	9435228.354	231.861
230	4528238.011	9435229.821	231.870
231	4528238.319	9435229.066	231.858
232	4528238.870	9435227.876	231.261
233	4528238.096	9435229.846	231.248
234	4528239.781	9435230.596	231.223
235	4528240.478	9435229.204	231.248
236	4528239.846	9435230.631	231.339
237	4528240.264	9435229.812	231.844
238	4528241.678	9435230.414	231.852
239	4528241.244	9435231.211	231.845
240	4528241.311	9435231.240	231.371
241	4528241.984	9435229.874	231.358

№	Север (X) м	Исток (Y) м	Кота (H) м	Эпохи	Хор.точ.(м)	Верт.точ.(м)	Тип решение
1	4528231.302	9435163.201	225.213	6	0.008	0.016	NetworkFix
2	4528231.729	9435162.914	225.376	6	0.009	0.016	NetworkFix
3	4528237.648	9435170.885	226.046	6	0.007	0.015	NetworkFix
4	4528239.732	9435170.428	226.340	6	0.006	0.013	NetworkFix
5	4528247.849	9435182.018	227.196	6	0.008	0.015	NetworkFix
6	4528248.544	9435181.603	227.402	6	0.009	0.016	NetworkFix
7	4528250.244	9435184.644	227.571	3	0.013	0.026	NetworkFix
8	4528250.257	9435184.596	227.668	6	0.007	0.014	NetworkFix
9	4528258.103	9435193.486	228.589	6	0.006	0.013	NetworkFix
10	4528258.147	9435193.408	228.762	6	0.006	0.013	NetworkFix
11	4528266.811	9435203.087	229.759	6	0.006	0.013	NetworkFix
12	4528266.791	9435202.976	229.909	6	0.006	0.012	NetworkFix
13	4528274.794	9435211.926	230.840	6	0.006	0.012	NetworkFix
14	4528274.802	9435211.855	231.011	6	0.006	0.012	NetworkFix
15	4528284.725	9435222.954	232.261	6	0.006	0.012	NetworkFix
16	4528284.752	9435222.930	232.369	6	0.006	0.012	NetworkFix
17	4528294.174	9435233.471	233.426	6	0.006	0.012	NetworkFix
18	4528294.218	9435233.467	233.523	6	0.006	0.012	NetworkFix
19	4528308.551	9435249.530	235.237	6	0.006	0.013	NetworkFix
20	4528308.563	9435249.503	235.483	6	0.006	0.013	NetworkFix
21	4528310.588	9435251.379	235.429	6	0.006	0.012	NetworkFix
22	4528310.621	9435251.284	235.737	6	0.006	0.012	NetworkFix
23	4528313.001	9435252.909	235.702	6	0.006	0.012	NetworkFix
24	4528313.039	9435252.814	235.976	6	0.006	0.012	NetworkFix
25	4528316.757	9435254.065	236.041	6	0.006	0.012	NetworkFix
26	4528316.711	9435253.947	236.227	6	0.006	0.012	NetworkFix
27	4528322.731	9435255.633	236.604	6	0.006	0.012	NetworkFix
28	4528322.801	9435255.496	236.734	6	0.006	0.012	NetworkFix
29	4528322.448	9435262.418	236.802	6	0.006	0.012	NetworkFix
30	4528322.347	9435262.518	237.065	6	0.006	0.012	NetworkFix
31	4528320.415	9435261.977	236.644	6	0.006	0.012	NetworkFix
32	4528320.437	9435262.049	236.914	6	0.006	0.012	NetworkFix
33	4528316.694	9435261.279	236.394	6	0.006	0.012	NetworkFix
34	4528314.208	9435261.396	236.216	6	0.006	0.012	NetworkFix
35	4528312.553	9435262.453	236.107	6	0.006	0.012	NetworkFix
36	4528311.864	9435263.333	236.033	6	0.006	0.012	NetworkFix
37	4528311.935	9435263.402	236.169	6	0.006	0.012	NetworkFix
38	4528310.666	9435266.736	236.067	6	0.006	0.012	NetworkFix
39	4528310.658	9435269.625	236.197	6	0.006	0.012	NetworkFix
40	4528310.666	9435270.239	236.147	6	0.006	0.012	NetworkFix
41	4528310.686	9435270.243	236.201	6	0.006	0.012	NetworkFix
42	4528310.482	9435273.633	236.350	6	0.006	0.012	NetworkFix
43	4528310.524	9435273.654	236.446	6	0.006	0.012	NetworkFix
44	4528308.795	9435280.121	236.552	6	0.005	0.010	NetworkFix
45	4528308.831	9435280.113	236.694	6	0.005	0.010	NetworkFix
46	4528307.342	9435283.784	236.695	6	0.005	0.010	NetworkFix
47	4528307.422	9435283.841	236.804	6	0.005	0.010	NetworkFix
48	4528304.638	9435288.511	236.812	6	0.005	0.010	NetworkFix
49	4528304.662	9435288.563	237.011	6	0.005	0.010	NetworkFix
50	4528302.212	9435291.554	236.924	6	0.006	0.010	NetworkFix
51	4528302.279	9435291.554	237.110	6	0.006	0.011	NetworkFix
52	4528306.040	9435291.617	238.609	6	0.005	0.010	NetworkFix
53	4528309.770	9435279.049	236.714	6	0.006	0.011	NetworkFix
54	4528313.602	9435263.104	236.241	6	0.005	0.010	NetworkFix
55	4528321.252	9435264.365	236.803	6	0.005	0.010	NetworkFix
56	4528315.751	9435262.361	236.397	6	0.005	0.010	NetworkFix
57	4528304.177	9435293.878	237.431	6	0.006	0.010	NetworkFix
58	4528304.218	9435293.572	238.127	6	0.006	0.010	NetworkFix
59	4528297.137	9435300.046	237.236	6	0.009	0.015	NetworkFix
60	4528297.124	9435299.903	238.206	5	0.006	0.011	NetworkFix
61	4528295.046	9435297.799	237.126	6	0.006	0.011	NetworkFix
62	4528291.351	9435300.902	237.176	6	0.006	0.011	NetworkFix
63	4528291.387	9435300.957	237.274	6	0.006	0.011	NetworkFix
64	4528287.417	9435304.138	237.306	6	0.006	0.011	NetworkFix
65	4528287.484	9435304.209	237.418	6	0.006	0.011	NetworkFix
66	4528285.766	9435306.560	237.327	6	0.006	0.010	NetworkFix
67	4528285.839	9435306.644	237.502	5	0.006	0.011	NetworkFix
68	4528295.782	9435303.665	237.905	6	0.010	0.016	NetworkFix
69	4528287.205	9435308.993	237.775	6	0.008	0.015	NetworkFix
70	4528290.206	9435313.026	238.404	6	0.008	0.015	NetworkFix
71	4528294.559	9435310.369	238.085	6	0.008	0.014	NetworkFix
72	4528296.434	9435313.187	238.891	6	0.007	0.012	NetworkFix
73	4528300.301	9435310.423	239.602	6	0.008	0.014	NetworkFix
74	4528277.407	9435286.255	236.519	6	0.009	0.014	NetworkFix
75	4528274.182	9435289.721	236.590	6	0.009	0.014	NetworkFix
76	4528280.880	9435296.206	237.162	6	0.008	0.014	NetworkFix
77	4528284.627	9435292.246	237.173	6	0.008	0.014	NetworkFix
78	4528283.900	9435291.607	237.158	6	0.008	0.014	NetworkFix
79	4528297.044	9435279.125	236.822	6	0.009	0.015	NetworkFix
80	4528296.256	9435277.935	237.031	6	0.011	0.028	NetworkFix
81	4528299.519	9435273.540	236.653	6	0.010	0.022	NetworkFix
82	4528297.555	9435270.860	236.815	6	0.041	0.035	NetworkFix
83	4528275.277	9435292.337	236.772	6	0.006	0.011	NetworkFix
84	4528275.278	9435292.355	236.801	6	0.006	0.011	NetworkFix
85	4528274.697	9435293.080	236.709	6	0.006	0.012	NetworkFix
86	4528274.771	9435293.090	236.826	6	0.006	0.011	NetworkFix
87	4528274.760	9435293.719	236.755	6	0.006	0.012	NetworkFix
88	4528274.817	9435293.715	236.860	6	0.015	0.027	NetworkFix
89	4528277.300	9435295.966	236.940	6	0.007	0.012	NetworkFix
90	4528277.315	9435295.916	237.044	6	0.007	0.014	NetworkFix

91	4528279.007	9435297.276	237.130	6	0.008	0.016	NetworkFix
92	4528279.831	9435297.686	237.176	6	0.007	0.012	NetworkFix
93	4528280.482	9435297.796	237.066	6	0.007	0.012	NetworkFix
94	4528280.473	9435297.732	237.172	6	0.007	0.012	NetworkFix
95	4528280.878	9435297.657	237.058	6	0.007	0.013	NetworkFix
96	4528280.838	9435297.617	237.178	6	0.006	0.012	NetworkFix
97	4528289.343	9435290.719	236.953	6	0.006	0.012	NetworkFix
98	4528288.488	9435289.425	237.018	6	0.007	0.012	NetworkFix
99	4528294.972	9435283.810	236.917	6	0.006	0.012	NetworkFix
100	4528296.171	9435284.819	236.819	6	0.006	0.012	NetworkFix
101	4528297.514	9435283.100	236.725	6	0.006	0.012	NetworkFix
102	4528297.493	9435283.055	236.846	6	0.006	0.011	NetworkFix
103	4528298.957	9435280.286	236.572	6	0.006	0.012	NetworkFix
104	4528298.892	9435280.291	236.744	6	0.006	0.012	NetworkFix
105	4528300.606	9435276.459	236.447	6	0.006	0.011	NetworkFix
106	4528300.568	9435276.486	236.630	6	0.006	0.011	NetworkFix
107	4528301.311	9435273.552	236.400	6	0.006	0.011	NetworkFix
108	4528301.262	9435273.543	236.486	6	0.006	0.011	NetworkFix
109	4528301.531	9435270.895	236.232	6	0.006	0.011	NetworkFix
110	4528301.497	9435270.880	236.309	6	0.006	0.011	NetworkFix
111	4528301.343	9435267.375	235.986	6	0.006	0.011	NetworkFix
112	4528301.309	9435267.397	236.082	6	0.006	0.011	NetworkFix
113	4528300.797	9435264.484	235.789	6	0.006	0.011	NetworkFix
114	4528300.769	9435264.507	235.871	6	0.006	0.011	NetworkFix
115	4528299.118	9435256.444	235.140	6	0.006	0.011	NetworkFix
116	4528299.079	9435256.466	235.223	6	0.006	0.011	NetworkFix
117	4528296.956	9435250.497	234.658	6	0.006	0.012	NetworkFix
118	4528296.906	9435250.521	234.776	6	0.006	0.011	NetworkFix
119	4528295.685	9435248.759	234.496	6	0.006	0.011	NetworkFix
120	4528295.703	9435248.842	234.600	6	0.006	0.011	NetworkFix
121	4528290.983	9435249.176	234.496	6	0.008	0.018	NetworkFix
122	4528290.942	9435249.262	234.641	6	0.007	0.016	NetworkFix
123	4528277.312	9435234.046	232.604	6	0.006	0.012	NetworkFix
124	4528277.236	9435234.075	232.778	6	0.006	0.012	NetworkFix
125	4528278.416	9435228.768	232.275	6	0.006	0.012	NetworkFix
126	4528278.388	9435228.786	232.357	6	0.006	0.012	NetworkFix
127	4528276.279	9435226.621	232.038	6	0.006	0.012	NetworkFix
128	4528276.257	9435226.683	232.120	6	0.006	0.012	NetworkFix
129	4528271.250	9435227.223	231.861	6	0.006	0.012	NetworkFix
130	4528271.299	9435227.293	231.963	6	0.006	0.012	NetworkFix
131	4528263.663	9435218.723	230.849	6	0.006	0.012	NetworkFix
132	4528263.623	9435218.746	231.001	6	0.007	0.012	NetworkFix
133	4528258.195	9435212.581	230.192	6	0.007	0.012	NetworkFix
134	4528258.131	9435212.548	230.297	6	0.007	0.012	NetworkFix
135	4528259.031	9435207.652	229.763	6	0.007	0.012	NetworkFix
136	4528258.968	9435207.669	229.843	6	0.007	0.012	NetworkFix
137	4528252.954	9435200.894	228.974	6	0.007	0.012	NetworkFix
138	4528252.940	9435200.915	229.068	6	0.007	0.012	NetworkFix
139	4528242.636	9435189.074	227.487	6	0.007	0.011	NetworkFix
140	4528242.595	9435189.071	227.644	6	0.007	0.011	NetworkFix
141	4528240.868	9435187.205	227.234	6	0.007	0.011	NetworkFix
142	4528238.521	9435185.706	226.951	6	0.007	0.011	NetworkFix
143	4528236.656	9435184.982	226.749	6	0.007	0.011	NetworkFix
144	4528236.581	9435184.974	226.945	6	0.008	0.013	NetworkFix
145	4528233.228	9435184.261	226.526	6	0.008	0.012	NetworkFix
146	4528233.089	9435184.245	226.647	6	0.013	0.020	NetworkFix
147	4528232.466	9435184.224	226.511	6	0.013	0.018	NetworkFix
148	4528231.719	9435184.720	226.545	6	0.010	0.015	NetworkFix
149	4528231.744	9435184.762	226.648	6	0.008	0.013	NetworkFix
150	4528229.713	9435186.413	226.673	6	0.008	0.013	NetworkFix
151	4528229.719	9435186.447	226.734	6	0.008	0.013	NetworkFix
152	4528226.054	9435189.615	226.993	6	0.009	0.013	NetworkFix
153	4528226.049	9435189.656	227.048	6	0.009	0.014	NetworkFix
154	4528227.435	9435191.139	227.181	6	0.011	0.016	NetworkFix
155	4528233.434	9435185.938	226.880	6	0.009	0.014	NetworkFix
156	4528238.892	9435187.787	227.315	6	0.007	0.011	NetworkFix
157	4528242.852	9435191.937	227.905	6	0.008	0.012	NetworkFix
158	4528250.339	9435200.529	228.912	6	0.007	0.011	NetworkFix
159	4528256.174	9435207.070	229.590	6	0.007	0.012	NetworkFix
160	4528257.472	9435205.922	229.615	6	0.007	0.011	NetworkFix
161	4528238.681	9435245.238	232.999	6	0.010	0.025	NetworkFix
162	4528260.302	9435224.567	232.238	6	0.008	0.012	NetworkFix
163	4528264.828	9435229.265	232.676	6	0.010	0.015	NetworkFix
164	4528273.575	9435228.732	232.124	6	0.007	0.012	NetworkFix
165	4528274.439	9435229.700	232.223	6	0.007	0.012	NetworkFix
166	4528274.268	9435229.878	232.247	6	0.007	0.012	NetworkFix
167	4528275.013	9435230.756	232.331	6	0.008	0.013	NetworkFix
168	4528274.793	9435230.976	232.359	6	0.010	0.015	NetworkFix
169	4528275.898	9435232.240	232.528	6	0.008	0.013	NetworkFix
170	4528274.451	9435239.362	233.706	6	0.007	0.012	NetworkFix
171	4528271.969	9435236.763	233.654	6	0.007	0.012	NetworkFix
172	4528272.765	9435232.837	233.005	6	0.007	0.012	NetworkFix
173	4528271.728	9435231.817	232.946	6	0.007	0.012	NetworkFix
174	4528267.408	9435231.982	233.702	6	0.009	0.016	NetworkFix
175	4528281.167	9435246.333	233.783	6	0.007	0.012	NetworkFix
176	4528294.210	9435259.976	234.216	6	0.009	0.012	NetworkFix
177	4528298.707	9435264.613	235.925	6	0.008	0.013	NetworkFix
178	4528298.192	9435269.793	236.575	6	0.007	0.013	NetworkFix
179	4528279.582	9435287.245	236.718	6	0.008	0.015	NetworkFix
180	4528277.322	9435286.027	236.541	6	0.008	0.015	NetworkFix
181	4528259.139	9435266.956	234.705	6	0.008	0.015	NetworkFix

182	4528256.218	9435264.013	234.438	6	0.009	0.016	NetworkFix
183	4528253.020	9435267.535	234.722	6	0.008	0.016	NetworkFix
184	4528248.865	9435266.059	234.594	6	0.008	0.016	NetworkFix
185	4528250.626	9435263.955	234.592	6	0.008	0.016	NetworkFix
186	4528253.742	9435266.666	234.628	6	0.008	0.016	NetworkFix
187	4528254.213	9435265.703	233.983	6	0.008	0.016	NetworkFix
188	4528251.841	9435263.668	233.945	6	0.008	0.017	NetworkFix
189	4528251.806	9435262.544	233.951	6	0.008	0.016	NetworkFix
190	4528253.204	9435260.993	233.896	6	0.010	0.020	NetworkFix
191	4528256.032	9435263.797	234.018	6	0.011	0.020	NetworkFix
192	4528240.397	9435247.506	233.700	6	0.010	0.021	NetworkFix
193	4528236.732	9435249.141	232.888	6	0.008	0.016	NetworkFix
194	4528236.227	9435246.093	232.794	6	0.008	0.016	NetworkFix
195	4528241.441	9435239.814	232.296	6	0.013	0.028	NetworkFix
196	4528248.504	9435230.728	232.307	6	0.009	0.020	NetworkFix
197	4528251.186	9435233.281	232.524	6	0.009	0.017	NetworkFix
198	4528245.820	9435226.054	231.429	6	0.012	0.026	NetworkFix
199	4528249.134	9435221.411	231.138	6	0.008	0.016	NetworkFix
200	4528254.275	9435216.625	230.746	6	0.008	0.016	NetworkFix
201	4528275.423	9435234.592	232.750	6	0.008	0.015	NetworkFix
202	4528282.667	9435242.518	233.706	6	0.008	0.015	NetworkFix
203	4528289.695	9435250.328	234.570	6	0.007	0.015	NetworkFix
204	4528290.299	9435250.697	234.584	6	0.007	0.015	NetworkFix
205	4528290.925	9435250.773	234.616	6	0.007	0.016	NetworkFix
206	4528294.673	9435250.441	234.742	6	0.007	0.016	NetworkFix
207	4528294.971	9435250.558	234.769	6	0.007	0.016	NetworkFix
208	4528296.646	9435254.188	235.024	6	0.007	0.016	NetworkFix
209	4528298.105	9435259.909	235.500	6	0.007	0.016	NetworkFix
210	4528299.170	9435263.595	235.805	6	0.007	0.016	NetworkFix
211	4528299.988	9435268.361	236.168	6	0.007	0.016	NetworkFix
212	4528300.046	9435271.142	236.402	6	0.007	0.016	NetworkFix
213	4528299.713	9435273.655	236.601	6	0.008	0.016	NetworkFix
214	4528297.928	9435277.919	236.705	6	0.007	0.015	NetworkFix
215	4528276.021	9435287.707	236.546	6	0.008	0.017	NetworkFix
216	4528269.336	9435281.784	235.935	6	0.008	0.016	NetworkFix
217	4528269.394	9435281.791	236.065	5	0.008	0.016	NetworkFix
218	4528258.991	9435272.484	235.208	6	0.009	0.017	NetworkFix
219	4528259.065	9435272.508	235.281	6	0.008	0.016	NetworkFix
220	4528240.731	9435265.250	234.105	6	0.010	0.018	NetworkFix
221	4528236.906	9435268.376	233.758	6	0.016	0.021	NetworkFix
222	4528236.814	9435268.211	233.877	6	0.018	0.031	NetworkFix
223	4528234.076	9435265.805	233.561	6	0.025	0.040	NetworkFix
224	4528234.131	9435265.802	233.601	6	0.017	0.027	NetworkFix
225	4528233.392	9435264.847	233.490	6	0.013	0.022	NetworkFix
226	4528233.436	9435264.789	233.565	6	0.013	0.028	NetworkFix
227	4528233.043	9435262.707	233.473	6	0.027	0.040	NetworkFix
228	4528233.058	9435262.709	233.534	6	0.018	0.027	NetworkFix
229	4528232.959	9435260.859	233.304	6	0.021	0.032	NetworkFix
230	4528232.987	9435260.892	233.403	6	0.018	0.028	NetworkFix
231	4528233.365	9435255.817	233.037	6	0.014	0.023	NetworkFix
232	4528233.410	9435255.832	233.126	6	0.021	0.034	NetworkFix
233	4528234.018	9435249.801	232.760	6	0.017	0.032	NetworkFix
234	4528234.094	9435249.810	232.908	6	0.022	0.041	NetworkFix
235	4528234.293	9435248.315	232.634	6	0.022	0.040	NetworkFix
236	4528234.351	9435248.348	232.814	6	0.033	0.059	NetworkFix
237	4528234.320	9435247.174	232.585	6	0.009	0.016	NetworkFix
238	4528234.362	9435247.132	232.731	6	0.009	0.016	NetworkFix
239	4528233.800	9435245.717	232.528	6	0.010	0.017	NetworkFix
240	4528233.837	9435245.696	232.691	6	0.010	0.016	NetworkFix
241	4528232.626	9435244.231	232.455	6	0.010	0.018	NetworkFix
242	4528232.627	9435244.198	232.643	6	0.010	0.017	NetworkFix
243	4528231.249	9435242.880	232.379	6	0.011	0.018	NetworkFix
244	4528231.249	9435242.782	232.521	6	0.013	0.021	NetworkFix
245	4528229.951	9435241.506	232.250	6	0.013	0.023	NetworkFix
246	4528227.800	9435240.115	232.147	6	0.015	0.030	NetworkFix
247	4528227.780	9435240.066	232.394	6	0.021	0.044	NetworkFix
248	4528225.848	9435239.204	232.163	6	0.023	0.049	NetworkFix
249	4528225.872	9435239.150	232.282	3	0.020	0.043	NetworkFix
250	4528225.057	9435238.916	232.094	6	0.011	0.027	NetworkFix
251	4528225.043	9435238.887	232.256	6	0.012	0.028	NetworkFix
252	4528221.393	9435238.675	231.897	4	0.028	0.044	NetworkFix
253	4528221.430	9435238.679	232.070	6	0.024	0.040	NetworkFix
254	4528228.087	9435228.168	231.078	6	0.015	0.041	NetworkFix
255	4528227.434	9435229.544	230.985	6	0.015	0.041	NetworkFix
256	4528227.176	9435227.791	231.167	3	0.022	0.060	NetworkFix
257	4528225.814	9435230.849	231.000	3	0.019	0.052	NetworkFix
258	4528227.255	9435231.475	231.069	3	0.014	0.055	NetworkFix
259	4528226.603	9435233.830	231.228	6	0.013	0.032	NetworkFix
260	4528227.726	9435234.443	231.289	3	0.013	0.042	NetworkFix
261	4528230.796	9435236.937	231.628	3	0.015	0.031	NetworkFix
262	4528234.190	9435238.559	231.598	6	0.016	0.034	NetworkFix
263	4528236.072	9435239.278	231.721	3	0.016	0.034	NetworkFix
264	4528237.497	9435239.960	231.602	6	0.018	0.034	NetworkFix
265	4528235.926	9435245.295	232.833	6	0.010	0.019	NetworkFix
266	4528236.399	9435250.706	232.866	6	0.011	0.024	NetworkFix
267	4528234.649	9435261.442	233.330	6	0.012	0.026	NetworkFix
268	4528234.957	9435263.545	233.514	6	0.015	0.033	NetworkFix
269	4528235.200	9435264.343	233.631	6	0.012	0.027	NetworkFix
270	4528236.845	9435266.065	233.825	6	0.011	0.029	NetworkFix
271	4528240.407	9435263.077	234.110	6	0.011	0.028	NetworkFix
272	4528247.501	9435265.451	234.535	5	0.011	0.028	NetworkFix

273	4528254.806	9435268.189	234.939	6	0.013	0.023	NetworkFix
274	4528260.438	9435270.646	235.167	6	0.012	0.022	NetworkFix
275	4528227.218	9435239.406	232.239	5	0.012	0.036	NetworkFix
276	4528235.479	9435226.207	231.029	6	0.014	0.034	NetworkFix
277	4528238.897	9435227.858	231.210	6	0.012	0.037	NetworkFix
278	4528240.653	9435228.967	231.250	6	0.010	0.027	NetworkFix
279	4528242.069	9435229.664	231.372	6	0.010	0.027	NetworkFix
280	4528241.524	9435231.605	231.408	6	0.018	0.043	NetworkFix
281	4528217.488	9435231.109	229.424	6	0.018	0.049	NetworkFix
282	4528212.538	9435240.821	231.984	6	0.018	0.039	NetworkFix
283	4528212.495	9435240.780	232.145	6	0.018	0.040	NetworkFix
284	4528223.429	9435168.423	225.014	6	0.008	0.020	NetworkFix
285	4528223.377	9435168.468	225.069	6	0.008	0.019	NetworkFix
286	4528226.913	9435172.346	225.472	6	0.008	0.019	NetworkFix
287	4528226.844	9435172.427	225.508	6	0.008	0.019	NetworkFix
288	4528227.884	9435174.174	225.588	6	0.012	0.029	NetworkFix
289	4528227.785	9435174.153	225.641	6	0.010	0.023	NetworkFix
290	4528228.247	9435175.893	225.728	6	0.008	0.018	NetworkFix
291	4528228.179	9435175.896	225.822	6	0.008	0.019	NetworkFix
292	4528227.935	9435177.742	226.006	6	0.009	0.020	NetworkFix
293	4528227.891	9435177.736	226.045	6	0.011	0.025	NetworkFix
294	4528226.650	9435179.949	226.333	6	0.011	0.025	NetworkFix
295	4528226.525	9435179.895	226.348	6	0.008	0.018	NetworkFix
296	4528222.463	9435183.719	226.859	6	0.008	0.018	NetworkFix
297	4528213.486	9435191.290	227.795	6	0.011	0.024	NetworkFix
298	4528208.264	9435194.420	227.825	6	0.008	0.018	NetworkFix
299	4528204.886	9435195.457	227.943	6	0.008	0.019	NetworkFix
300	4528202.296	9435195.364	227.985	6	0.008	0.018	NetworkFix
301	4528199.622	9435194.486	227.998	6	0.008	0.019	NetworkFix
302	4528190.589	9435191.437	228.067	6	0.008	0.018	NetworkFix
303	4528178.748	9435187.821	228.102	6	0.008	0.018	NetworkFix
304	4528172.365	9435185.861	228.066	6	0.008	0.018	NetworkFix
305	4528164.978	9435183.517	228.111	6	0.008	0.018	NetworkFix
306	4528156.062	9435180.765	228.209	6	0.008	0.016	NetworkFix
307	4528150.891	9435179.493	228.336	6	0.008	0.016	NetworkFix
308	4528147.051	9435179.394	228.460	6	0.008	0.016	NetworkFix
309	4528143.220	9435180.188	228.523	6	0.008	0.016	NetworkFix
310	4528139.644	9435181.937	228.667	6	0.008	0.016	NetworkFix
311	4528136.431	9435184.802	228.813	6	0.008	0.016	NetworkFix
312	4528134.151	9435188.466	229.052	6	0.008	0.016	NetworkFix
313	4528131.751	9435194.742	229.096	6	0.008	0.016	NetworkFix
314	4528129.871	9435200.634	229.186	6	0.008	0.016	NetworkFix
315	4528121.425	9435226.242	229.396	6	0.008	0.015	NetworkFix
316	4528119.012	9435234.129	229.292	6	0.009	0.015	NetworkFix
317	4528118.964	9435234.111	229.488	6	0.009	0.015	NetworkFix
318	4528114.413	9435248.505	229.361	6	0.009	0.016	NetworkFix
319	4528114.353	9435248.500	229.497	6	0.011	0.021	NetworkFix
320	4528109.471	9435263.708	229.415	6	0.008	0.015	NetworkFix
321	4528109.444	9435263.673	229.520	6	0.008	0.015	NetworkFix
322	4528105.735	9435275.328	229.421	6	0.008	0.015	NetworkFix
323	4528105.695	9435275.291	229.530	6	0.008	0.015	NetworkFix
324	4528101.770	9435287.319	229.449	6	0.008	0.015	NetworkFix
325	4528101.736	9435287.287	229.521	6	0.008	0.015	NetworkFix
326	4528100.088	9435293.015	229.555	6	0.008	0.015	NetworkFix
327	4528099.842	9435293.006	229.644	6	0.008	0.015	NetworkFix
328	4528098.681	9435292.669	229.622	6	0.008	0.015	NetworkFix
329	4528097.663	9435297.048	229.599	6	0.008	0.014	NetworkFix
330	4528098.859	9435297.368	229.649	6	0.008	0.014	NetworkFix
331	4528098.926	9435297.411	229.586	6	0.008	0.014	NetworkFix
332	4528102.781	9435294.719	229.552	6	0.008	0.013	NetworkFix
333	4528101.387	9435290.118	229.494	6	0.009	0.015	NetworkFix
334	4528101.361	9435290.490	229.495	6	0.009	0.015	NetworkFix
335	4528108.335	9435290.956	229.563	6	0.012	0.018	NetworkFix
336	4528108.335	9435290.604	229.559	6	0.012	0.018	NetworkFix
337	4528113.378	9435263.351	229.365	6	0.010	0.017	NetworkFix
338	4528109.268	9435262.811	229.595	6	0.010	0.018	NetworkFix
339	4528118.943	9435246.248	229.354	6	0.012	0.018	NetworkFix
340	4528118.325	9435234.794	229.493	6	0.010	0.015	NetworkFix
341	4528128.788	9435203.246	229.187	6	0.008	0.013	NetworkFix
342	4528137.576	9435193.869	229.013	6	0.007	0.013	NetworkFix
343	4528135.610	9435185.484	228.901	6	0.009	0.015	NetworkFix
344	4528154.880	9435179.882	228.240	6	0.007	0.013	NetworkFix
345	4528157.210	9435184.056	228.173	6	0.007	0.013	NetworkFix
346	4528181.204	9435188.143	228.089	6	0.008	0.013	NetworkFix
347	4528203.119	9435195.040	227.964	6	0.008	0.013	NetworkFix
348	4528209.458	9435201.103	227.893	6	0.012	0.021	NetworkFix
349	4528235.793	9435181.559	226.346	6	0.009	0.016	NetworkFix
350	4528223.766	9435181.925	226.601	6	0.008	0.013	NetworkFix
351	4528217.664	9435168.017	225.690	6	0.007	0.012	NetworkFix
352	4528221.728	9435174.054	226.159	6	0.007	0.012	NetworkFix
353	4528221.544	9435179.209	226.620	5	0.008	0.013	NetworkFix
354	4528219.531	9435182.601	227.137	6	0.008	0.013	NetworkFix
355	4528215.821	9435186.735	227.550	6	0.011	0.019	NetworkFix
356	4528211.359	9435191.097	228.170	6	0.013	0.021	NetworkFix
357	4528207.019	9435193.203	228.299	6	0.008	0.014	NetworkFix
358	4528202.774	9435191.249	228.430	6	0.010	0.016	NetworkFix
359	4528196.123	9435189.711	228.378	6	0.008	0.013	NetworkFix
360	4528191.751	9435188.824	228.270	6	0.008	0.013	NetworkFix
361	4528185.949	9435185.713	228.282	6	0.008	0.013	NetworkFix
362	4528165.270	9435180.391	228.011	6	0.007	0.012	NetworkFix
363	4528166.291	9435175.109	227.461	6	0.007	0.012	NetworkFix

364	4528163.090	9435180.543	228.171	6	0.007	0.012	NetworkFix
365	4528157.278	9435178.704	228.187	6	0.007	0.012	NetworkFix
366	4528146.032	9435177.834	228.519	6	0.007	0.012	NetworkFix
367	4528141.291	9435178.658	228.757	6	0.008	0.012	NetworkFix
368	4528136.262	9435183.578	228.841	6	0.007	0.011	NetworkFix
369	4528131.731	9435188.900	228.829	6	0.007	0.011	NetworkFix
370	4528126.019	9435199.074	228.986	6	0.007	0.011	NetworkFix
371	4528124.798	9435206.293	229.349	6	0.007	0.011	NetworkFix
372	4528119.823	9435225.954	229.421	6	0.007	0.011	NetworkFix
373	4528117.137	9435233.563	229.595	6	0.008	0.011	NetworkFix
374	4528112.713	9435247.484	229.638	6	0.018	0.015	NetworkFix
375	4528113.445	9435246.883	229.537	3	0.016	0.021	NetworkFix
376	4528107.706	9435263.089	229.526	6	0.015	0.021	NetworkFix
377	4528104.001	9435274.705	229.384	6	0.013	0.021	NetworkFix
378	4528099.905	9435287.518	229.365	6	0.012	0.019	NetworkFix
379	4528126.835	9435232.729	229.337	6	0.009	0.013	NetworkFix
380	4528126.858	9435232.761	229.392	6	0.010	0.015	NetworkFix
381	4528129.589	9435224.315	229.255	6	0.008	0.012	NetworkFix
382	4528129.611	9435224.313	229.295	6	0.007	0.012	NetworkFix
383	4528132.946	9435214.097	229.196	6	0.007	0.011	NetworkFix
384	4528132.954	9435214.112	229.241	6	0.007	0.011	NetworkFix
385	4528136.450	9435203.322	229.095	6	0.007	0.010	NetworkFix
386	4528136.487	9435203.360	229.183	6	0.007	0.010	NetworkFix
387	4528137.893	9435203.900	229.302	6	0.007	0.010	NetworkFix
388	4528139.196	9435200.007	229.184	6	0.006	0.010	NetworkFix
389	4528137.710	9435199.544	229.090	6	0.006	0.010	NetworkFix
390	4528137.740	9435199.533	229.179	6	0.006	0.009	NetworkFix
391	4528140.049	9435192.585	228.897	6	0.006	0.010	NetworkFix
392	4528140.058	9435192.613	228.971	6	0.006	0.010	NetworkFix
393	4528141.404	9435190.065	228.823	6	0.006	0.009	NetworkFix
394	4528142.560	9435188.805	228.660	6	0.006	0.009	NetworkFix
395	4528142.587	9435188.835	228.721	6	0.006	0.009	NetworkFix
396	4528144.339	9435187.474	228.573	6	0.006	0.010	NetworkFix
397	4528146.879	9435186.393	228.420	6	0.006	0.009	NetworkFix
398	4528146.860	9435186.423	228.501	6	0.006	0.009	NetworkFix
399	4528148.063	9435186.053	228.389	6	0.006	0.009	NetworkFix
400	4528148.084	9435186.103	228.454	6	0.006	0.009	NetworkFix
401	4528150.694	9435186.355	228.338	6	0.006	0.009	NetworkFix
402	4528150.742	9435186.371	228.386	6	0.008	0.011	NetworkFix
403	4528157.184	9435188.286	228.209	6	0.008	0.011	NetworkFix
404	4528157.660	9435188.675	228.201	6	0.008	0.011	NetworkFix
405	4528156.627	9435193.423	228.247	6	0.009	0.014	NetworkFix
406	4528167.256	9435196.813	228.193	6	0.015	0.017	NetworkFix
407	4528167.234	9435196.823	228.235	6	0.015	0.017	NetworkFix
408	4528179.261	9435200.651	228.118	5	0.016	0.020	NetworkFix
409	4528179.275	9435200.689	228.157	6	0.019	0.023	NetworkFix
410	4528188.405	9435203.520	228.201	6	0.021	0.026	NetworkFix
411	4528188.397	9435203.578	228.211	6	0.021	0.026	NetworkFix
412	4528198.431	9435206.790	228.173	4	0.033	0.041	NetworkFix
413	4528198.387	9435206.822	228.223	6	0.029	0.036	NetworkFix
414	4528203.784	9435208.493	228.166	6	0.031	0.028	NetworkFix
415	4528210.672	9435202.527	227.974	6	0.023	0.030	NetworkFix
416	4528210.719	9435202.542	228.005	6	0.021	0.028	NetworkFix
417	4528217.880	9435196.392	227.628	6	0.021	0.028	NetworkFix
418	4528217.928	9435196.396	227.670	6	0.020	0.027	NetworkFix
419	4528216.663	9435200.311	227.962	6	0.022	0.028	NetworkFix
420	4528217.726	9435202.640	228.275	6	0.020	0.026	NetworkFix
421	4528212.912	9435203.767	228.002	6	0.023	0.031	NetworkFix
422	4528166.080	9435198.670	228.275	6	0.014	0.015	NetworkFix
423	4528161.241	9435197.230	228.345	6	0.010	0.013	NetworkFix
424	4528142.811	9435191.579	228.893	6	0.006	0.009	NetworkFix
425	4528140.154	9435199.116	229.135	6	0.006	0.009	NetworkFix
426	4528137.706	9435206.653	229.261	6	0.006	0.009	NetworkFix
427	4528134.957	9435214.983	229.360	6	0.007	0.010	NetworkFix
428	4528135.063	9435216.469	229.337	6	0.006	0.009	NetworkFix
429	4528131.854	9435224.349	229.452	6	0.006	0.009	NetworkFix
430	4528135.829	9435225.403	229.579	6	0.007	0.011	NetworkFix
431	4528137.382	9435224.682	229.612	6	0.007	0.011	NetworkFix
432	4528139.486	9435217.955	229.498	6	0.007	0.011	NetworkFix
433	4528144.762	9435219.498	229.671	6	0.007	0.010	NetworkFix
434	4528147.510	9435210.710	229.076	6	0.006	0.009	NetworkFix
435	4528142.242	9435209.050	229.098	6	0.006	0.009	NetworkFix
436	4528144.948	9435200.580	228.764	6	0.006	0.009	NetworkFix
437	4528146.192	9435199.515	228.782	6	0.014	0.022	NetworkFix
438	4528155.384	9435202.337	228.662	6	0.007	0.009	NetworkFix
439	4528159.869	9435200.762	228.431	5	0.007	0.009	NetworkFix
440	4528160.715	9435202.753	228.400	6	0.011	0.013	NetworkFix
441	4528153.905	9435205.271	228.805	6	0.007	0.010	NetworkFix
442	4528147.898	9435217.911	229.535	6	0.006	0.010	NetworkFix
443	4528153.571	9435220.045	229.596	6	0.007	0.010	NetworkFix
444	4528150.531	9435229.302	230.010	6	0.010	0.013	NetworkFix
445	4528139.330	9435225.620	229.645	6	0.007	0.011	NetworkFix
446	4528134.799	9435228.411	229.564	6	0.008	0.012	NetworkFix
447	4528133.743	9435232.118	229.540	6	0.007	0.011	NetworkFix
448	4528141.400	9435234.995	229.906	6	0.008	0.011	NetworkFix
449	4528151.850	9435238.587	230.302	6	0.012	0.012	NetworkFix
450	4528157.711	9435218.574	229.262	6	0.007	0.009	NetworkFix
451	4528159.303	9435219.046	229.251	6	0.007	0.010	NetworkFix
452	4528154.856	9435234.859	230.220	6	0.012	0.020	NetworkFix
453	4528158.273	9435236.020	230.408	6	0.013	0.020	NetworkFix
454	4528161.003	9435226.650	229.877	6	0.024	0.024	NetworkFix

455	4528168.987	9435229.198	230.233	6	0.016	0.023	NetworkFix
456	4528167.881	9435232.688	230.390	6	0.016	0.022	NetworkFix
457	4528182.592	9435237.122	231.017	6	0.024	0.023	NetworkFix
458	4528183.326	9435235.281	231.000	6	0.017	0.023	NetworkFix
459	4528193.709	9435238.156	231.440	6	0.016	0.017	NetworkFix
460	4528196.936	9435237.662	231.452	6	0.018	0.020	NetworkFix
461	4528196.377	9435239.288	231.499	6	0.018	0.018	NetworkFix
462	4528190.109	9435240.157	231.293	6	0.017	0.017	NetworkFix
463	4528190.840	9435243.480	231.362	6	0.016	0.017	NetworkFix
464	4528197.772	9435243.160	231.500	6	0.016	0.017	NetworkFix
465	4528186.945	9435244.008	231.318	6	0.009	0.011	NetworkFix
466	4528185.949	9435240.231	231.200	6	0.009	0.011	NetworkFix
467	4528163.127	9435233.292	230.267	6	0.011	0.015	NetworkFix
468	4528161.868	9435237.127	230.501	6	0.011	0.015	NetworkFix
469	4528158.376	9435235.811	230.399	6	0.011	0.015	NetworkFix
470	4528184.473	9435244.316	231.146	6	0.011	0.014	NetworkFix
471	4528190.477	9435247.722	231.513	6	0.013	0.017	NetworkFix
472	4528197.536	9435247.191	231.842	3	0.014	0.019	NetworkFix
473	4528197.677	9435237.994	231.591	6	0.026	0.031	NetworkFix
474	4528178.812	9435238.261	230.907	6	0.017	0.018	NetworkFix
475	4528157.062	9435230.000	230.148	3	0.013	0.020	NetworkFix
476	4528139.031	9435222.776	229.566	6	0.008	0.014	NetworkFix
477	4528153.858	9435205.966	228.812	6	0.008	0.014	NetworkFix
478	4528146.553	9435222.912	229.755	6	0.007	0.012	NetworkFix
479	4528148.686	9435222.461	229.753	6	0.008	0.012	NetworkFix
480	4528150.470	9435224.105	229.834	6	0.010	0.016	NetworkFix
481	4528149.614	9435226.289	229.858	6	0.011	0.017	NetworkFix
482	4528147.588	9435226.768	229.861	6	0.009	0.015	NetworkFix
483	4528145.833	9435225.268	229.797	6	0.009	0.015	NetworkFix
484	4528126.774	9435233.338	229.324	6	0.007	0.013	NetworkFix
485	4528126.812	9435233.304	229.366	6	0.007	0.012	NetworkFix
486	4528126.835	9435234.037	229.319	6	0.006	0.011	NetworkFix
487	4528126.866	9435234.004	229.391	6	0.006	0.011	NetworkFix
488	4528127.069	9435234.456	229.322	6	0.006	0.011	NetworkFix
489	4528127.092	9435234.450	229.380	6	0.006	0.011	NetworkFix
490	4528128.338	9435235.201	229.380	6	0.006	0.010	NetworkFix
491	4528137.492	9435238.904	229.625	6	0.008	0.014	NetworkFix
492	4528137.506	9435238.862	229.777	6	0.007	0.012	NetworkFix
493	4528124.514	9435240.381	229.378	6	0.008	0.014	NetworkFix
494	4528121.447	9435250.023	229.450	6	0.020	0.031	NetworkFix
495	4528125.499	9435251.571	229.599	6	0.018	0.027	NetworkFix
496	4528122.989	9435259.519	229.534	6	0.020	0.030	NetworkFix
497	4528123.036	9435259.552	229.657	6	0.020	0.029	NetworkFix
498	4528112.977	9435291.308	229.707	6	0.011	0.017	NetworkFix
499	4528112.977	9435291.340	229.790	6	0.010	0.014	NetworkFix
500	4528110.492	9435300.468	229.805	6	0.010	0.014	NetworkFix
501	4528110.590	9435300.478	229.932	6	0.010	0.015	NetworkFix
502	4528110.516	9435301.787	229.920	6	0.010	0.015	NetworkFix
503	4528110.629	9435301.843	230.026	6	0.008	0.011	NetworkFix
504	4528110.756	9435304.249	229.967	6	0.008	0.012	NetworkFix
505	4528110.847	9435304.159	230.136	6	0.008	0.012	NetworkFix
506	4528111.333	9435306.228	230.006	6	0.008	0.012	NetworkFix
507	4528111.442	9435306.260	230.200	6	0.008	0.012	NetworkFix
508	4528112.029	9435308.083	230.028	6	0.009	0.013	NetworkFix
509	4528112.116	9435308.050	230.212	6	0.009	0.014	NetworkFix
510	4528115.156	9435313.686	230.371	6	0.010	0.012	NetworkFix
511	4528117.648	9435317.618	230.554	6	0.010	0.012	NetworkFix
512	4528117.725	9435317.551	230.688	6	0.010	0.013	NetworkFix
513	4528120.211	9435321.995	230.719	6	0.010	0.013	NetworkFix
514	4528120.287	9435321.936	230.895	6	0.011	0.013	NetworkFix
515	4528124.139	9435329.675	231.011	6	0.010	0.014	NetworkFix
516	4528124.191	9435329.652	231.177	6	0.011	0.015	NetworkFix
517	4528128.858	9435339.064	231.324	6	0.007	0.013	NetworkFix
518	4528128.929	9435338.981	231.498	6	0.007	0.014	NetworkFix
519	4528129.731	9435340.246	231.357	6	0.008	0.014	NetworkFix
520	4528129.795	9435340.143	231.515	6	0.007	0.014	NetworkFix
521	4528130.903	9435340.729	231.350	6	0.008	0.014	NetworkFix
522	4528130.866	9435340.655	231.546	6	0.008	0.013	NetworkFix
523	4528132.225	9435340.417	231.357	6	0.008	0.014	NetworkFix
524	4528132.192	9435340.363	231.540	5	0.008	0.014	NetworkFix
525	4528132.701	9435340.204	231.385	6	0.008	0.014	NetworkFix
526	4528132.702	9435340.168	231.431	6	0.008	0.015	NetworkFix
527	4528142.669	9435335.408	231.811	6	0.009	0.015	NetworkFix
528	4528142.653	9435335.361	231.951	6	0.008	0.014	NetworkFix
529	4528144.334	9435334.551	231.912	6	0.008	0.014	NetworkFix
530	4528144.294	9435334.522	232.014	6	0.008	0.016	NetworkFix
531	4528147.555	9435331.907	232.070	6	0.008	0.016	NetworkFix
532	4528147.535	9435331.881	232.139	6	0.008	0.015	NetworkFix
533	4528149.588	9435329.905	232.104	6	0.008	0.014	NetworkFix
534	4528149.559	9435329.855	232.217	6	0.007	0.013	NetworkFix
535	4528151.246	9435327.948	232.169	6	0.009	0.016	NetworkFix
536	4528151.202	9435327.929	232.262	6	0.010	0.016	NetworkFix
537	4528152.898	9435325.552	232.222	6	0.015	0.018	NetworkFix
538	4528152.846	9435325.509	232.303	6	0.010	0.014	NetworkFix
539	4528154.425	9435322.722	232.208	6	0.016	0.019	NetworkFix
540	4528154.396	9435322.691	232.306	6	0.019	0.023	NetworkFix
541	4528155.694	9435319.931	232.164	6	0.014	0.020	NetworkFix
542	4528155.687	9435319.942	232.255	6	0.015	0.022	NetworkFix
543	4528158.045	9435313.603	232.132	6	0.007	0.013	NetworkFix
544	4528158.001	9435313.583	232.244	6	0.007	0.013	NetworkFix
545	4528158.076	9435312.647	232.074	6	0.007	0.013	NetworkFix

546	4528158.033	9435312.643	232.203	6	0.008	0.015	NetworkFix
547	4528157.577	9435311.585	232.032	6	0.009	0.017	NetworkFix
548	4528157.525	9435311.600	232.182	6	0.007	0.014	NetworkFix
549	4528156.430	9435310.730	232.024	6	0.009	0.017	NetworkFix
550	4528156.418	9435310.769	232.132	6	0.008	0.015	NetworkFix
551	4528147.879	9435308.024	231.864	6	0.013	0.020	NetworkFix
552	4528147.894	9435308.099	231.986	6	0.013	0.020	NetworkFix
553	4528142.684	9435306.221	231.711	6	0.016	0.025	NetworkFix
554	4528142.651	9435306.275	231.858	6	0.016	0.024	NetworkFix
555	4528141.011	9435305.346	231.530	6	0.015	0.024	NetworkFix
556	4528140.976	9435305.391	231.749	6	0.015	0.024	NetworkFix
557	4528137.085	9435300.495	231.377	6	0.015	0.024	NetworkFix
558	4528137.054	9435300.518	231.438	6	0.015	0.024	NetworkFix
559	4528136.165	9435298.163	231.142	5	0.015	0.024	NetworkFix
560	4528136.121	9435298.161	231.287	6	0.015	0.024	NetworkFix
561	4528135.762	9435295.535	231.105	3	0.032	0.033	NetworkFix
562	4528135.734	9435295.545	231.146	6	0.027	0.031	NetworkFix
563	4528135.993	9435292.097	230.989	6	0.029	0.033	NetworkFix
564	4528135.959	9435292.096	231.029	6	0.032	0.036	NetworkFix
565	4528155.182	9435315.097	232.279	3	0.012	0.024	NetworkFix
566	4528152.519	9435322.010	232.346	6	0.012	0.019	NetworkFix
567	4528150.632	9435325.146	232.319	6	0.013	0.019	NetworkFix
568	4528148.783	9435327.543	232.306	6	0.013	0.022	NetworkFix
569	4528144.938	9435331.369	232.163	6	0.013	0.021	NetworkFix
570	4528143.266	9435332.684	232.075	6	0.015	0.028	NetworkFix
571	4528141.759	9435333.457	231.979	6	0.009	0.017	NetworkFix
572	4528129.375	9435339.408	231.457	6	0.009	0.019	NetworkFix
573	4528141.761	9435325.421	232.061	6	0.012	0.024	NetworkFix
574	4528142.695	9435322.702	232.229	6	0.034	0.053	NetworkFix
575	4528127.944	9435320.697	231.592	6	0.012	0.019	NetworkFix
576	4528127.461	9435320.683	231.391	6	0.012	0.019	NetworkFix
577	4528128.309	9435317.877	231.335	6	0.022	0.034	NetworkFix
578	4528117.863	9435317.475	230.705	6	0.012	0.019	NetworkFix
579	4528118.033	9435314.525	230.673	6	0.012	0.018	NetworkFix
580	4528114.697	9435308.626	230.377	6	0.013	0.020	NetworkFix
581	4528113.855	9435307.138	230.336	6	0.009	0.017	NetworkFix
582	4528113.033	9435305.055	229.885	3	0.032	0.057	NetworkFix
583	4528112.560	9435301.131	230.030	6	0.013	0.024	NetworkFix
584	4528113.217	9435301.143	230.427	9	0.017	0.020	NetworkFix
585	4528114.945	9435295.513	230.508	6	0.027	0.033	NetworkFix
586	4528113.986	9435295.551	229.954	6	0.031	0.037	NetworkFix
587	4528113.532	9435295.319	229.857	6	0.035	0.041	NetworkFix
588	4528114.475	9435291.766	229.761	3	0.028	0.029	NetworkFix
589	4528110.967	9435305.341	229.986	6	0.013	0.015	NetworkFix
590	4528111.034	9435305.698	229.991	6	0.010	0.012	NetworkFix
591	4528104.200	9435307.238	229.906	6	0.007	0.010	NetworkFix
592	4528104.092	9435306.888	229.898	6	0.007	0.010	NetworkFix
593	4528116.422	9435307.877	230.767	6	0.017	0.022	NetworkFix
594	4528119.380	9435318.611	230.918	6	0.016	0.019	NetworkFix
595	4528147.870	9435327.758	232.328	6	0.011	0.012	NetworkFix
596	4528138.915	9435326.059	231.933	6	0.027	0.024	NetworkFix
597	4528133.328	9435323.885	231.878	6	0.027	0.023	NetworkFix
598	4528099.028	9435298.100	229.598	6	0.010	0.013	NetworkFix
599	4528098.968	9435298.115	229.787	6	0.010	0.013	NetworkFix
600	4528106.499	9435311.777	230.129	6	0.010	0.013	NetworkFix
601	4528106.463	9435311.799	230.307	6	0.010	0.012	NetworkFix
602	4528116.413	9435329.831	230.939	6	0.012	0.014	NetworkFix
603	4528116.360	9435329.857	231.116	6	0.015	0.018	NetworkFix
604	4528119.362	9435335.894	231.221	6	0.019	0.026	NetworkFix
605	4528119.342	9435335.910	231.359	6	0.011	0.016	NetworkFix
606	4528121.109	9435339.597	231.296	6	0.012	0.015	NetworkFix
607	4528121.063	9435339.608	231.451	6	0.010	0.012	NetworkFix
608	4528123.201	9435345.768	231.501	6	0.010	0.013	NetworkFix
609	4528123.169	9435345.772	231.667	6	0.011	0.014	NetworkFix
610	4528125.415	9435352.939	231.739	6	0.009	0.012	NetworkFix
611	4528125.388	9435352.886	231.911	6	0.009	0.012	NetworkFix
612	4528123.866	9435353.380	231.918	6	0.009	0.012	NetworkFix
613	4528126.751	9435362.789	232.103	6	0.009	0.012	NetworkFix
614	4528126.729	9435362.813	232.251	6	0.009	0.012	NetworkFix
615	4528128.394	9435362.325	232.129	6	0.009	0.011	NetworkFix
616	4528128.372	9435362.376	232.305	6	0.010	0.013	NetworkFix
617	4528133.096	9435380.326	233.364	6	0.010	0.013	NetworkFix
618	4528133.032	9435380.332	233.537	6	0.008	0.011	NetworkFix
619	4528128.752	9435367.317	232.618	6	0.012	0.014	NetworkFix
620	4528117.164	9435333.915	231.268	6	0.009	0.012	NetworkFix
621	4528099.709	9435300.909	229.850	6	0.010	0.013	NetworkFix
622	4528095.076	9435307.373	229.222	6	0.009	0.012	NetworkFix
623	4528104.219	9435317.462	230.299	6	0.010	0.013	NetworkFix
624	4528107.490	9435321.738	230.545	6	0.013	0.016	NetworkFix
625	4528111.466	9435331.180	231.043	6	0.010	0.012	NetworkFix
626	4528114.788	9435340.714	231.401	6	0.009	0.012	NetworkFix
627	4528115.271	9435346.013	231.309	6	0.009	0.012	NetworkFix
628	4528118.867	9435353.709	231.648	6	0.009	0.012	NetworkFix
629	4528123.231	9435362.933	232.083	6	0.010	0.012	NetworkFix
630	4528126.546	9435375.532	232.962	6	0.009	0.012	NetworkFix
631	4528129.549	9435377.358	233.471	6	0.009	0.012	NetworkFix
632	4528131.832	9435379.040	233.467	6	0.009	0.012	NetworkFix
633	4528129.373	9435382.754	233.711	6	0.009	0.012	NetworkFix
634	4528134.977	9435384.631	233.754	6	0.009	0.012	NetworkFix
635	4528138.992	9435393.006	234.675	6	0.009	0.012	NetworkFix
636	4528142.435	9435399.860	235.335	6	0.009	0.012	NetworkFix

637	4528142.363	9435399.846	235.452	6	0.009	0.012	NetworkFix
638	4528147.415	9435409.670	236.331	6	0.012	0.014	NetworkFix
639	4528147.366	9435409.682	236.398	6	0.012	0.014	NetworkFix
640	4528149.885	9435413.522	236.581	6	0.009	0.012	NetworkFix
641	4528149.803	9435413.592	236.703	6	0.009	0.012	NetworkFix
642	4528152.992	9435416.788	236.962	6	0.009	0.012	NetworkFix
643	4528152.943	9435416.806	237.083	6	0.009	0.012	NetworkFix
644	4528159.723	9435421.915	237.616	6	0.009	0.012	NetworkFix
645	4528164.289	9435424.153	238.016	6	0.009	0.012	NetworkFix
646	4528171.700	9435426.664	238.573	6	0.012	0.014	NetworkFix
647	4528171.674	9435426.691	238.680	6	0.012	0.014	NetworkFix
648	4528181.795	9435430.169	239.552	6	0.012	0.016	NetworkFix
649	4528181.755	9435430.213	239.632	6	0.011	0.015	NetworkFix
650	4528189.206	9435432.711	240.189	6	0.014	0.022	NetworkFix
651	4528189.208	9435432.744	240.241	6	0.013	0.021	NetworkFix
652	4528200.273	9435436.549	241.152	6	0.009	0.012	NetworkFix
653	4528200.281	9435436.588	241.211	6	0.009	0.012	NetworkFix
654	4528201.699	9435437.083	241.239	6	0.009	0.012	NetworkFix
655	4528201.933	9435438.609	241.378	6	0.009	0.012	NetworkFix
656	4528199.807	9435444.984	241.765	6	0.010	0.012	NetworkFix
657	4528197.962	9435440.851	241.526	6	0.007	0.011	NetworkFix
658	4528197.164	9435437.262	241.115	6	0.009	0.012	NetworkFix
659	4528191.931	9435433.932	240.539	6	0.009	0.015	NetworkFix
660	4528191.331	9435435.599	240.515	6	0.008	0.011	NetworkFix
661	4528186.558	9435434.052	240.325	6	0.008	0.012	NetworkFix
662	4528187.135	9435432.261	240.108	6	0.012	0.017	NetworkFix
663	4528181.380	9435430.272	239.555	3	0.009	0.013	NetworkFix
664	4528180.648	9435432.095	239.916	6	0.010	0.016	NetworkFix
665	4528166.202	9435426.684	238.552	6	0.008	0.011	NetworkFix
666	4528145.845	9435413.567	236.542	6	0.007	0.010	NetworkFix
667	4528145.569	9435411.010	236.412	6	0.007	0.010	NetworkFix
668	4528140.771	9435400.603	235.628	6	0.008	0.011	NetworkFix
669	4528140.068	9435398.586	235.127	6	0.008	0.011	NetworkFix
670	4528137.967	9435394.349	235.116	6	0.007	0.010	NetworkFix
671	4528135.506	9435395.547	235.171	6	0.007	0.010	NetworkFix
672	4528133.775	9435389.147	234.413	6	0.007	0.010	NetworkFix
673	4528137.108	9435368.086	232.808	6	0.014	0.020	NetworkFix
674	4528140.036	9435379.421	233.612	6	0.008	0.014	NetworkFix
675	4528145.372	9435390.111	234.690	6	0.010	0.017	NetworkFix
676	4528145.430	9435390.103	234.783	6	0.009	0.014	NetworkFix
677	4528154.173	9435407.152	236.343	3	0.038	0.048	NetworkFix
678	4528154.193	9435407.091	236.503	6	0.031	0.039	NetworkFix
679	4528158.169	9435412.091	236.913	6	0.024	0.029	NetworkFix
680	4528164.276	9435416.015	237.487	6	0.022	0.028	NetworkFix
681	4528164.355	9435415.984	237.621	6	0.017	0.025	NetworkFix
682	4528171.399	9435418.840	238.312	6	0.017	0.021	NetworkFix
683	4528173.497	9435414.938	238.455	3	0.018	0.023	NetworkFix
684	4528185.765	9435418.836	239.605	6	0.015	0.018	NetworkFix
685	4528185.746	9435418.785	239.677	6	0.015	0.018	NetworkFix
686	4528196.738	9435422.638	240.645	6	0.011	0.016	NetworkFix
687	4528196.808	9435422.496	240.784	6	0.010	0.015	NetworkFix
688	4528195.336	9435427.304	240.590	6	0.009	0.014	NetworkFix
689	4528195.407	9435427.267	240.641	6	0.007	0.012	NetworkFix
690	4528197.920	9435428.506	240.729	6	0.007	0.011	NetworkFix
691	4528197.947	9435428.406	240.933	6	0.007	0.011	NetworkFix
692	4528199.486	9435428.661	240.832	6	0.007	0.011	NetworkFix
693	4528199.529	9435428.542	240.918	6	0.007	0.011	NetworkFix
694	4528200.913	9435428.057	240.957	6	0.007	0.013	NetworkFix
695	4528200.836	9435427.948	241.023	6	0.008	0.013	NetworkFix
696	4528202.422	9435425.610	241.043	6	0.007	0.013	NetworkFix
697	4528202.339	9435425.509	241.122	6	0.007	0.013	NetworkFix
698	4528207.553	9435411.397	240.594	6	0.009	0.014	NetworkFix
699	4528207.491	9435411.380	240.714	6	0.008	0.014	NetworkFix
700	4528207.803	9435407.926	240.363	6	0.007	0.013	NetworkFix
701	4528206.811	9435404.433	240.088	6	0.007	0.014	NetworkFix
702	4528206.008	9435404.089	240.035	6	0.007	0.014	NetworkFix
703	4528205.937	9435404.115	240.204	6	0.007	0.014	NetworkFix
704	4528204.104	9435403.323	239.855	6	0.012	0.021	NetworkFix
705	4528204.110	9435403.402	240.113	6	0.013	0.020	NetworkFix
706	4528189.675	9435397.039	238.531	6	0.016	0.031	NetworkFix
707	4528189.622	9435397.060	238.769	3	0.029	0.055	NetworkFix
708	4528177.756	9435391.704	237.757	4	0.018	0.057	NetworkFix
709	4528177.698	9435391.717	237.954	6	0.018	0.058	NetworkFix
710	4528174.336	9435389.808	237.344	6	0.017	0.058	NetworkFix
711	4528204.134	9435434.202	241.354	6	0.007	0.014	NetworkFix
712	4528202.969	9435431.734	241.199	6	0.007	0.014	NetworkFix
713	4528184.882	9435428.193	239.750	6	0.007	0.014	NetworkFix
714	4528165.016	9435420.606	237.983	6	0.007	0.014	NetworkFix
715	4528150.353	9435408.295	236.261	5	0.007	0.014	NetworkFix
716	4528140.615	9435389.808	234.477	6	0.007	0.014	NetworkFix
717	4528132.935	9435373.744	232.930	6	0.007	0.014	NetworkFix
718	4528139.225	9435370.011	233.084	6	0.009	0.017	NetworkFix
719	4528145.260	9435385.159	234.806	6	0.008	0.015	NetworkFix
720	4528148.819	9435395.127	235.753	6	0.009	0.016	NetworkFix
721	4528150.365	9435399.993	235.668	6	0.011	0.018	NetworkFix
722	4528151.610	9435402.635	235.968	6	0.009	0.015	NetworkFix
723	4528165.026	9435411.007	237.438	6	0.016	0.026	NetworkFix
724	4528171.386	9435412.352	238.009	6	0.015	0.024	NetworkFix
725	4528189.095	9435418.307	239.857	6	0.033	0.054	NetworkFix
726	4528199.582	9435425.460	241.250	6	0.006	0.012	NetworkFix
727	4528210.698	9435431.620	241.338	6	0.007	0.014	NetworkFix

728	4528207.682	9435438.418	241.583	6	0.009	0.018	NetworkFix
729	4528204.532	9435446.015	242.115	6	0.008	0.016	NetworkFix
730	4528206.559	9435440.046	241.674	6	0.007	0.015	NetworkFix
731	4528206.627	9435440.075	241.711	6	0.007	0.015	NetworkFix
732	4528207.695	9435439.451	241.696	6	0.007	0.015	NetworkFix
733	4528207.688	9435439.513	241.785	6	0.010	0.019	NetworkFix
734	4528209.153	9435439.539	241.780	6	0.010	0.019	NetworkFix
735	4528209.163	9435439.653	241.943	6	0.010	0.019	NetworkFix
736	4528219.440	9435443.043	242.977	6	0.007	0.013	NetworkFix
737	4528219.459	9435443.162	243.055	6	0.008	0.014	NetworkFix
738	4528230.685	9435446.822	244.340	6	0.006	0.012	NetworkFix
739	4528230.627	9435446.892	244.445	6	0.007	0.012	NetworkFix
740	4528238.376	9435449.451	245.304	6	0.007	0.013	NetworkFix
741	4528239.267	9435450.035	245.493	6	0.006	0.012	NetworkFix
742	4528239.312	9435450.123	245.629	6	0.006	0.012	NetworkFix
743	4528239.820	9435451.253	245.813	6	0.006	0.012	NetworkFix
744	4528239.780	9435451.243	245.941	5	0.006	0.012	NetworkFix
745	4528239.758	9435452.263	246.032	6	0.006	0.012	NetworkFix
746	4528239.675	9435452.288	246.172	6	0.006	0.012	NetworkFix
747	4528237.644	9435458.267	247.012	6	0.006	0.012	NetworkFix
748	4528237.608	9435458.269	247.138	6	0.007	0.012	NetworkFix
749	4528243.503	9435461.044	247.286	6	0.011	0.018	NetworkFix
750	4528243.572	9435461.063	247.493	6	0.013	0.024	NetworkFix
751	4528248.824	9435452.506	246.581	6	0.011	0.019	NetworkFix
752	4528248.820	9435452.509	246.746	6	0.010	0.021	NetworkFix
753	4528250.705	9435452.884	246.709	6	0.013	0.026	NetworkFix
754	4528253.997	9435449.732	246.749	6	0.016	0.031	NetworkFix
755	4528261.281	9435442.425	246.771	6	0.021	0.037	NetworkFix
756	4528272.020	9435432.199	247.237	6	0.031	0.052	NetworkFix
757	4528279.939	9435424.511	247.140	6	0.009	0.017	NetworkFix
758	4528282.674	9435426.089	247.245	3	0.011	0.017	NetworkFix
759	4528290.477	9435418.166	246.976	6	0.007	0.014	NetworkFix
760	4528301.205	9435407.555	246.605	6	0.008	0.016	NetworkFix
761	4528300.241	9435403.807	246.525	6	0.008	0.016	NetworkFix
762	4528301.430	9435401.570	246.537	6	0.006	0.013	NetworkFix
763	4528300.484	9435403.770	246.980	6	0.007	0.013	NetworkFix
764	4528301.724	9435407.164	247.632	6	0.007	0.013	NetworkFix
765	4528301.425	9435411.279	248.294	6	0.007	0.014	NetworkFix
766	4528305.354	9435412.310	248.483	6	0.007	0.013	NetworkFix
767	4528306.798	9435407.935	248.111	6	0.007	0.014	NetworkFix
768	4528306.051	9435399.453	246.493	6	0.007	0.013	NetworkFix
769	4528306.606	9435389.939	245.654	6	0.007	0.014	NetworkFix
770	4528307.356	9435382.479	244.603	6	0.007	0.015	NetworkFix
771	4528307.372	9435370.503	243.519	6	0.007	0.014	NetworkFix
772	4528308.850	9435361.298	242.885	3	0.008	0.016	NetworkFix
773	4528309.385	9435349.040	241.907	5	0.013	0.021	NetworkFix
774	4528309.128	9435334.541	240.693	3	0.031	0.052	NetworkFix
775	4528306.350	9435328.112	240.195	6	0.010	0.017	NetworkFix
776	4528301.769	9435320.980	239.304	6	0.012	0.018	NetworkFix
777	4528296.067	9435313.232	238.691	6	0.009	0.015	NetworkFix
778	4528294.497	9435311.097	238.523	6	0.010	0.015	NetworkFix
779	4528290.226	9435313.843	238.171	6	0.010	0.015	NetworkFix
780	4528290.231	9435313.766	238.492	6	0.009	0.014	NetworkFix
781	4528286.735	9435309.160	237.555	6	0.009	0.014	NetworkFix
782	4528286.837	9435309.070	237.754	6	0.010	0.014	NetworkFix
783	4528286.379	9435308.710	237.515	6	0.009	0.014	NetworkFix
784	4528286.416	9435308.612	237.714	6	0.009	0.014	NetworkFix
785	4528285.903	9435307.640	237.393	6	0.011	0.016	NetworkFix
786	4528286.014	9435307.647	237.580	6	0.009	0.014	NetworkFix
787	4528285.740	9435306.677	237.292	6	0.009	0.014	NetworkFix
788	4528285.859	9435306.671	237.480	6	0.009	0.014	NetworkFix
789	4528280.584	9435302.811	237.123	6	0.008	0.012	NetworkFix
790	4528302.638	9435283.091	236.619	5	0.008	0.013	NetworkFix
791	4528306.019	9435268.602	236.078	6	0.008	0.012	NetworkFix
792	4528301.989	9435250.090	234.912	6	0.008	0.013	NetworkFix
793	4528282.095	9435311.427	237.497	6	0.010	0.015	NetworkFix
794	4528281.925	9435311.127	237.435	6	0.014	0.021	NetworkFix
795	4528286.106	9435308.385	237.463	6	0.009	0.013	NetworkFix
796	4528286.318	9435308.715	237.527	6	0.009	0.013	NetworkFix
797	4528289.074	9435312.445	237.999	6	0.009	0.013	NetworkFix
798	4528289.362	9435312.733	238.031	6	0.009	0.013	NetworkFix
799	4528285.289	9435315.450	238.019	6	0.009	0.014	NetworkFix
800	4528285.014	9435315.147	237.958	6	0.010	0.015	NetworkFix
801	4528280.393	9435310.544	237.372	6	0.009	0.014	NetworkFix
802	4528280.412	9435310.682	237.462	6	0.009	0.014	NetworkFix
803	4528281.336	9435310.794	237.383	6	0.011	0.017	NetworkFix
804	4528281.304	9435310.903	237.490	6	0.009	0.014	NetworkFix
805	4528282.153	9435311.480	237.556	6	0.023	0.037	NetworkFix
806	4528282.058	9435311.567	237.603	6	0.014	0.023	NetworkFix
807	4528289.044	9435320.406	238.675	6	0.011	0.019	NetworkFix
808	4528288.976	9435320.500	238.825	6	0.009	0.015	NetworkFix
809	4528295.460	9435328.945	239.718	6	0.010	0.018	NetworkFix
810	4528295.382	9435329.021	239.822	6	0.008	0.015	NetworkFix
811	4528298.165	9435333.393	240.243	6	0.012	0.018	NetworkFix
812	4528298.100	9435333.441	240.333	6	0.012	0.018	NetworkFix
813	4528299.626	9435337.046	240.596	6	0.013	0.019	NetworkFix
814	4528299.554	9435337.090	240.704	6	0.013	0.019	NetworkFix
815	4528300.311	9435340.684	240.951	6	0.013	0.019	NetworkFix
816	4528300.259	9435340.693	241.005	6	0.013	0.019	NetworkFix
817	4528300.187	9435345.162	241.361	6	0.010	0.014	NetworkFix
818	4528300.145	9435345.137	241.414	6	0.010	0.014	NetworkFix

819	4528299.267	9435357.580	242.484	6	0.011	0.014	NetworkFix
820	4528299.191	9435357.561	242.595	6	0.010	0.014	NetworkFix
821	4528299.488	9435358.335	242.554	6	0.011	0.014	NetworkFix
822	4528298.390	9435370.220	243.600	6	0.008	0.014	NetworkFix
823	4528298.317	9435370.198	243.761	6	0.008	0.014	NetworkFix
824	4528297.624	9435381.504	244.611	6	0.010	0.017	NetworkFix
825	4528297.540	9435381.550	244.828	6	0.008	0.013	NetworkFix
826	4528296.928	9435390.361	245.398	6	0.009	0.013	NetworkFix
827	4528296.821	9435390.360	245.588	6	0.009	0.013	NetworkFix
828	4528296.690	9435392.099	245.516	6	0.013	0.019	NetworkFix
829	4528296.523	9435392.038	245.725	6	0.010	0.014	NetworkFix
830	4528296.008	9435393.718	245.686	6	0.013	0.019	NetworkFix
831	4528295.965	9435393.642	245.840	6	0.013	0.019	NetworkFix
832	4528295.154	9435395.188	245.823	6	0.013	0.018	NetworkFix
833	4528295.073	9435395.076	245.946	6	0.013	0.018	NetworkFix
834	4528292.718	9435397.951	246.150	6	0.011	0.018	NetworkFix
835	4528292.682	9435397.889	246.212	6	0.009	0.019	NetworkFix
836	4528290.497	9435400.274	246.281	6	0.010	0.019	NetworkFix
837	4528290.446	9435400.137	246.431	6	0.010	0.019	NetworkFix
838	4528287.261	9435396.385	246.320	6	0.016	0.024	NetworkFix
839	4528287.195	9435396.323	246.382	6	0.021	0.032	NetworkFix
840	4528279.336	9435402.677	246.551	6	0.009	0.018	NetworkFix
841	4528279.242	9435402.582	246.668	6	0.010	0.020	NetworkFix
842	4528266.086	9435412.970	246.983	6	0.010	0.019	NetworkFix
843	4528266.036	9435412.933	247.050	6	0.008	0.015	NetworkFix
844	4528259.323	9435418.331	247.031	6	0.008	0.016	NetworkFix
845	4528262.480	9435422.424	247.070	6	0.008	0.016	NetworkFix
846	4528262.435	9435422.455	247.151	6	0.008	0.016	NetworkFix
847	4528263.238	9435423.985	247.075	6	0.008	0.016	NetworkFix
848	4528263.180	9435423.982	247.152	6	0.008	0.016	NetworkFix
849	4528263.434	9435425.089	247.116	6	0.008	0.016	NetworkFix
850	4528263.358	9435425.074	247.170	6	0.007	0.014	NetworkFix
851	4528263.164	9435426.563	247.075	6	0.008	0.015	NetworkFix
852	4528263.084	9435426.569	247.162	6	0.008	0.015	NetworkFix
853	4528262.785	9435427.423	247.030	6	0.008	0.016	NetworkFix
854	4528262.666	9435427.396	247.143	6	0.007	0.015	NetworkFix
855	4528258.295	9435432.016	246.812	6	0.007	0.015	NetworkFix
856	4528258.271	9435431.970	246.914	6	0.008	0.016	NetworkFix
857	4528253.237	9435437.245	246.545	3	0.009	0.018	NetworkFix
858	4528253.146	9435437.191	246.605	6	0.009	0.019	NetworkFix
859	4528248.924	9435441.756	246.185	6	0.008	0.016	NetworkFix
860	4528248.853	9435441.681	246.264	6	0.010	0.020	NetworkFix
861	4528247.570	9435443.052	246.040	6	0.007	0.014	NetworkFix
862	4528247.480	9435442.513	246.100	6	0.007	0.014	NetworkFix
863	4528247.394	9435442.474	246.188	6	0.007	0.014	NetworkFix
864	4528245.353	9435443.112	245.920	6	0.007	0.014	NetworkFix
865	4528245.324	9435443.007	245.950	6	0.007	0.014	NetworkFix
866	4528243.210	9435443.371	245.659	6	0.007	0.014	NetworkFix
867	4528243.196	9435443.221	245.712	6	0.007	0.015	NetworkFix
868	4528243.301	9435447.482	245.736	6	0.007	0.014	NetworkFix
869	4528241.684	9435443.069	245.518	6	0.008	0.016	NetworkFix
870	4528241.674	9435442.991	245.552	6	0.007	0.015	NetworkFix
871	4528230.081	9435439.160	243.965	6	0.008	0.017	NetworkFix
872	4528230.103	9435439.081	244.074	6	0.008	0.017	NetworkFix
873	4528222.994	9435436.786	243.060	6	0.008	0.016	NetworkFix
874	4528223.052	9435436.731	243.156	6	0.008	0.016	NetworkFix
875	4528213.118	9435433.484	241.782	6	0.009	0.019	NetworkFix
876	4528213.062	9435433.357	241.884	6	0.011	0.023	NetworkFix
877	4528211.929	9435432.711	241.640	6	0.010	0.021	NetworkFix
878	4528211.950	9435432.641	241.743	6	0.011	0.022	NetworkFix
879	4528211.169	9435431.610	241.418	6	0.010	0.021	NetworkFix
880	4528211.229	9435431.570	241.597	6	0.010	0.020	NetworkFix
881	4528210.540	9435429.755	241.348	6	0.010	0.019	NetworkFix
882	4528210.648	9435429.715	241.421	6	0.009	0.019	NetworkFix
883	4528211.436	9435427.143	241.199	6	0.009	0.019	NetworkFix
884	4528211.500	9435427.147	241.319	6	0.009	0.018	NetworkFix
885	4528214.956	9435417.358	240.889	6	0.009	0.018	NetworkFix
886	4528215.020	9435417.373	240.994	6	0.009	0.018	NetworkFix
887	4528218.923	9435406.639	240.430	6	0.028	0.048	NetworkFix
888	4528230.580	9435373.970	239.263	6	0.021	0.036	NetworkFix
889	4528235.243	9435360.816	238.735	6	0.021	0.036	NetworkFix
890	4528235.262	9435360.821	238.833	6	0.020	0.035	NetworkFix
891	4528238.119	9435353.137	238.497	6	0.021	0.036	NetworkFix
892	4528238.204	9435353.167	238.590	6	0.020	0.035	NetworkFix
893	4528239.558	9435351.100	238.549	6	0.020	0.035	NetworkFix
894	4528239.586	9435351.179	238.745	6	0.020	0.035	NetworkFix
895	4528242.439	9435349.498	238.784	6	0.020	0.035	NetworkFix
896	4528242.488	9435349.556	238.995	6	0.020	0.035	NetworkFix
897	4528244.996	9435348.567	239.070	6	0.013	0.024	NetworkFix
898	4528245.051	9435348.627	239.243	6	0.013	0.024	NetworkFix
899	4528245.597	9435348.563	239.112	6	0.013	0.025	NetworkFix
900	4528245.563	9435348.636	239.250	6	0.013	0.024	NetworkFix
901	4528246.117	9435348.810	239.183	6	0.014	0.025	NetworkFix
902	4528246.083	9435348.880	239.303	6	0.023	0.042	NetworkFix
903	4528250.933	9435353.650	239.835	6	0.011	0.019	NetworkFix
904	4528250.837	9435353.697	239.980	6	0.011	0.020	NetworkFix
905	4528252.896	9435355.907	240.100	6	0.010	0.019	NetworkFix
906	4528252.777	9435355.949	240.237	6	0.011	0.020	NetworkFix
907	4528254.960	9435359.301	240.395	6	0.012	0.021	NetworkFix
908	4528254.864	9435359.336	240.522	6	0.013	0.023	NetworkFix
909	4528255.486	9435360.883	240.454	6	0.014	0.023	NetworkFix

910	4528255.367	9435360.915	240.626	6	0.026	0.054	NetworkFix
911	4528255.634	9435362.552	240.517	6	0.018	0.030	NetworkFix
912	4528255.527	9435362.565	240.640	6	0.015	0.026	NetworkFix
913	4528255.224	9435364.887	240.623	6	0.018	0.030	NetworkFix
914	4528255.147	9435364.812	240.741	6	0.017	0.028	NetworkFix
915	4528253.584	9435370.005	240.741	6	0.013	0.021	NetworkFix
916	4528253.462	9435369.953	240.894	6	0.013	0.021	NetworkFix
917	4528247.962	9435386.982	241.039	6	0.029	0.035	NetworkFix
918	4528247.857	9435386.967	241.083	6	0.029	0.036	NetworkFix
919	4528241.990	9435404.677	241.411	3	0.020	0.033	NetworkFix
920	4528241.868	9435404.639	241.542	6	0.025	0.030	NetworkFix
921	4528241.877	9435404.866	241.490	6	0.024	0.029	NetworkFix
922	4528246.801	9435406.748	241.587	6	0.011	0.020	NetworkFix
923	4528240.803	9435412.982	241.828	6	0.018	0.030	NetworkFix
924	4528237.376	9435423.387	241.958	6	0.015	0.029	NetworkFix
925	4528235.677	9435423.992	241.854	6	0.016	0.029	NetworkFix
926	4528227.677	9435421.316	241.435	6	0.019	0.026	NetworkFix
927	4528226.965	9435425.146	241.661	6	0.009	0.015	NetworkFix
928	4528234.561	9435428.244	241.912	6	0.007	0.015	NetworkFix
929	4528242.338	9435430.255	241.858	6	0.023	0.035	NetworkFix
930	4528245.625	9435417.257	241.958	6	0.010	0.017	NetworkFix
931	4528250.807	9435403.936	241.485	6	0.011	0.021	NetworkFix
932	4528254.601	9435393.723	241.215	6	0.015	0.026	NetworkFix
933	4528257.390	9435384.657	241.009	6	0.011	0.020	NetworkFix
934	4528256.673	9435375.695	240.870	6	0.012	0.019	NetworkFix
935	4528256.755	9435375.697	240.969	6	0.012	0.019	NetworkFix
936	4528257.203	9435374.166	240.906	6	0.013	0.021	NetworkFix
937	4528257.277	9435374.207	241.005	6	0.013	0.023	NetworkFix
938	4528266.965	9435377.859	242.181	6	0.014	0.024	NetworkFix
939	4528266.962	9435377.973	242.255	6	0.013	0.023	NetworkFix
940	4528267.536	9435378.327	242.268	6	0.014	0.023	NetworkFix
941	4528267.463	9435378.383	242.323	6	0.014	0.024	NetworkFix
942	4528267.361	9435387.093	242.556	6	0.019	0.032	NetworkFix
943	4528265.780	9435391.869	242.594	6	0.013	0.025	NetworkFix
944	4528265.284	9435393.707	242.583	6	0.011	0.023	NetworkFix
945	4528270.259	9435387.425	242.732	4	0.030	0.053	NetworkFix
946	4528270.778	9435380.369	242.590	6	0.012	0.018	NetworkFix
947	4528247.697	9435340.589	238.436	6	0.006	0.012	NetworkFix
948	4528247.818	9435340.701	238.707	6	0.007	0.013	NetworkFix
949	4528248.072	9435343.164	238.695	6	0.009	0.015	NetworkFix
950	4528248.146	9435343.114	238.948	6	0.008	0.015	NetworkFix
951	4528248.750	9435344.250	238.904	6	0.008	0.016	NetworkFix
952	4528248.805	9435344.145	239.053	6	0.009	0.018	NetworkFix
953	4528252.208	9435347.749	239.530	6	0.012	0.023	NetworkFix
954	4528252.280	9435347.720	239.690	6	0.011	0.019	NetworkFix
955	4528256.123	9435351.792	240.127	6	0.012	0.023	NetworkFix
956	4528256.196	9435351.737	240.270	6	0.012	0.023	NetworkFix
957	4528259.400	9435356.982	240.532	6	0.012	0.023	NetworkFix
958	4528249.068	9435336.929	238.116	6	0.010	0.019	NetworkFix
959	4528249.097	9435336.972	238.305	6	0.010	0.019	NetworkFix
960	4528253.491	9435332.662	237.999	6	0.010	0.019	NetworkFix
961	4528261.761	9435325.580	237.722	6	0.011	0.020	NetworkFix
962	4528272.949	9435316.183	237.440	6	0.009	0.017	NetworkFix
963	4528278.284	9435311.739	237.341	6	0.009	0.017	NetworkFix
964	4528284.886	9435319.590	238.573	6	0.010	0.017	NetworkFix
965	4528288.992	9435325.015	239.265	6	0.012	0.018	NetworkFix
966	4528288.998	9435325.090	239.556	6	0.013	0.018	NetworkFix
967	4528293.937	9435331.564	240.127	6	0.013	0.019	NetworkFix
968	4528296.717	9435336.521	240.645	6	0.013	0.019	NetworkFix
969	4528297.525	9435339.581	240.936	6	0.012	0.018	NetworkFix
970	4528297.669	9435345.133	241.469	6	0.013	0.017	NetworkFix
971	4528297.394	9435347.881	241.723	6	0.021	0.027	NetworkFix
972	4528297.017	9435351.654	242.083	6	0.023	0.036	NetworkFix
973	4528296.933	9435355.419	242.387	6	0.030	0.034	NetworkFix
974	4528296.152	9435364.183	243.321	6	0.031	0.036	NetworkFix
975	4528296.036	9435364.298	243.865	6	0.031	0.036	NetworkFix
976	4528295.600	9435370.994	244.007	6	0.023	0.034	NetworkFix
977	4528295.930	9435371.123	243.998	6	0.024	0.034	NetworkFix
978	4528295.840	9435373.575	244.170	6	0.024	0.034	NetworkFix
979	4528294.943	9435382.254	244.994	6	0.023	0.035	NetworkFix
980	4528294.277	9435389.956	245.642	6	0.023	0.035	NetworkFix
981	4528275.709	9435401.943	246.443	6	0.011	0.016	NetworkFix
982	4528269.489	9435407.429	246.574	6	0.010	0.017	NetworkFix
983	4528262.725	9435412.972	246.770	6	0.013	0.023	NetworkFix
984	4528259.316	9435419.839	246.998	6	0.010	0.018	NetworkFix
985	4528256.361	9435424.714	246.516	6	0.009	0.018	NetworkFix
986	4528253.390	9435431.185	246.365	6	0.009	0.019	NetworkFix
987	4528247.175	9435439.294	246.079	6	0.009	0.019	NetworkFix
988	4528239.468	9435437.225	244.836	6	0.009	0.018	NetworkFix
989	4528226.518	9435433.832	243.416	6	0.009	0.018	NetworkFix
990	4528213.229	9435429.991	241.746	6	0.011	0.022	NetworkFix
991	4528259.611	9435357.192	240.640	6	0.012	0.024	NetworkFix
992	4528260.468	9435360.316	240.659	6	0.010	0.020	NetworkFix
993	4528260.548	9435360.313	240.749	6	0.010	0.020	NetworkFix
994	4528261.073	9435366.790	240.773	6	0.011	0.019	NetworkFix
995	4528261.176	9435366.772	240.879	6	0.011	0.019	NetworkFix
996	4528261.801	9435367.788	240.827	6	0.013	0.021	NetworkFix
997	4528261.872	9435367.716	240.929	6	0.012	0.019	NetworkFix
998	4528265.867	9435369.288	240.954	6	0.014	0.024	NetworkFix
999	4528265.888	9435369.182	241.044	6	0.020	0.032	NetworkFix
1000	4528266.469	9435369.263	240.940	6	0.018	0.033	NetworkFix

1001	4528266.505	9435369.182	241.054	6	0.017	0.030	NetworkFix
1002	4528268.092	9435368.815	241.047	6	0.018	0.031	NetworkFix
1003	4528274.271	9435302.586	237.116	6	0.012	0.027	NetworkFix
1004	4528274.213	9435302.543	237.229	6	0.012	0.026	NetworkFix
1005	4528271.096	9435305.986	237.276	6	0.011	0.022	NetworkFix
1006	4528271.061	9435305.958	237.381	6	0.010	0.020	NetworkFix
1007	4528258.216	9435315.642	237.524	6	0.012	0.026	NetworkFix
1008	4528258.196	9435315.588	237.675	6	0.012	0.026	NetworkFix
1009	4528257.680	9435315.836	237.589	6	0.012	0.026	NetworkFix
1010	4528257.746	9435315.742	237.731	6	0.012	0.027	NetworkFix
1011	4528253.667	9435314.710	237.655	6	0.012	0.025	NetworkFix
1012	4528253.576	9435314.688	237.735	6	0.012	0.026	NetworkFix
1013	4528247.677	9435320.142	237.699	6	0.012	0.026	NetworkFix
1014	4528247.678	9435320.158	237.807	6	0.010	0.024	NetworkFix
1015	4528240.070	9435327.196	237.975	6	0.009	0.021	NetworkFix
1016	4528240.012	9435327.157	238.141	6	0.009	0.021	NetworkFix
1017	4528232.447	9435334.228	238.378	6	0.011	0.019	NetworkFix
1018	4528232.446	9435334.173	238.435	6	0.011	0.019	NetworkFix
1019	4528234.147	9435340.581	238.400	6	0.010	0.023	NetworkFix
1020	4528229.098	9435351.288	238.704	6	0.019	0.029	NetworkFix
1021	4528222.647	9435369.260	239.155	6	0.021	0.033	NetworkFix
1022	4528222.603	9435369.263	239.275	6	0.023	0.035	NetworkFix
1023	4528213.128	9435395.348	239.968	6	0.013	0.023	NetworkFix
1024	4528212.068	9435397.050	239.993	6	0.013	0.023	NetworkFix
1025	4528209.650	9435398.157	239.938	6	0.013	0.021	NetworkFix
1026	4528207.335	9435398.446	239.841	6	0.014	0.020	NetworkFix
1027	4528197.388	9435394.456	238.979	6	0.020	0.021	NetworkFix
1028	4528184.735	9435388.569	237.805	6	0.017	0.030	NetworkFix
1029	4528181.266	9435386.624	237.392	3	0.046	0.051	NetworkFix
1030	4528178.632	9435383.495	236.944	3	0.033	0.038	NetworkFix
1031	4528177.680	9435380.637	236.815	6	0.042	0.053	NetworkFix
1032	4528181.079	9435371.111	236.190	6	0.042	0.053	NetworkFix
1033	4528191.546	9435339.964	235.143	6	0.016	0.027	NetworkFix
1034	4528194.132	9435331.264	234.842	6	0.015	0.026	NetworkFix
1035	4528190.855	9435329.478	234.660	6	0.014	0.026	NetworkFix
1036	4528191.663	9435321.425	234.076	6	0.010	0.020	NetworkFix
1037	4528191.717	9435312.283	233.475	6	0.010	0.021	NetworkFix
1038	4528192.786	9435311.754	233.570	6	0.010	0.022	NetworkFix
1039	4528193.334	9435309.954	233.626	6	0.011	0.022	NetworkFix
1040	4528195.550	9435310.679	234.084	6	0.011	0.021	NetworkFix
1041	4528195.040	9435312.554	234.064	6	0.010	0.021	NetworkFix
1042	4528197.879	9435313.473	234.969	6	0.011	0.022	NetworkFix
1043	4528198.404	9435311.816	234.919	6	0.011	0.021	NetworkFix
1044	4528200.411	9435312.356	236.081	6	0.013	0.023	NetworkFix
1045	4528199.816	9435314.371	236.118	5	0.014	0.025	NetworkFix
1046	4528219.324	9435318.748	236.648	6	0.030	0.036	NetworkFix
1047	4528220.686	9435317.983	236.656	6	0.012	0.024	NetworkFix
1048	4528222.399	9435321.288	236.739	6	0.015	0.020	NetworkFix
1049	4528221.717	9435322.981	236.829	6	0.015	0.020	NetworkFix
1050	4528213.484	9435307.484	235.235	6	0.010	0.020	NetworkFix
1051	4528215.353	9435307.536	235.378	6	0.010	0.020	NetworkFix
1052	4528215.525	9435305.951	235.348	6	0.010	0.020	NetworkFix
1053	4528213.520	9435305.869	235.226	6	0.009	0.019	NetworkFix
1054	4528230.526	9435306.448	236.493	6	0.008	0.018	NetworkFix
1055	4528231.110	9435308.121	236.564	6	0.008	0.018	NetworkFix
1056	4528239.307	9435308.368	237.182	6	0.020	0.035	NetworkFix
1057	4528239.541	9435306.823	237.255	6	0.020	0.035	NetworkFix
1058	4528194.073	9435306.811	233.717	6	0.009	0.019	NetworkFix
1059	4528194.371	9435305.226	233.761	6	0.009	0.017	NetworkFix
1060	4528201.776	9435305.392	234.379	6	0.012	0.022	NetworkFix
1061	4528203.388	9435305.467	234.498	6	0.013	0.023	NetworkFix
1062	4528204.153	9435302.550	234.445	6	0.013	0.023	NetworkFix
1063	4528202.653	9435302.081	234.371	6	0.014	0.025	NetworkFix
1064	4528195.945	9435299.788	234.116	6	0.007	0.016	NetworkFix
1065	4528198.129	9435315.284	235.783	6	0.008	0.014	NetworkFix
1066	4528196.044	9435320.311	235.907	6	0.007	0.013	NetworkFix
1067	4528202.316	9435336.158	237.299	4	0.021	0.038	NetworkFix
1068	4528199.942	9435343.307	237.185	6	0.008	0.020	NetworkFix
1069	4528184.065	9435374.702	236.751	6	0.012	0.035	NetworkFix
1070	4528186.250	9435366.176	236.141	6	0.012	0.030	NetworkFix
1071	4528191.429	9435352.456	235.664	6	0.012	0.030	NetworkFix
1072	4528195.863	9435354.314	237.031	6	0.012	0.029	NetworkFix
1073	4528192.686	9435364.563	237.415	6	0.010	0.018	NetworkFix
1074	4528198.585	9435371.586	237.901	6	0.014	0.033	NetworkFix
1075	4528201.266	9435365.116	237.801	5	0.013	0.028	NetworkFix
1076	4528203.698	9435354.853	237.720	3	0.014	0.031	NetworkFix
1077	4528206.571	9435342.687	237.600	6	0.011	0.025	NetworkFix
1078	4528185.382	9435381.684	238.064	6	0.011	0.020	NetworkFix
1079	4528169.803	9435381.883	236.838	6	0.017	0.020	NetworkFix
1080	4528169.751	9435381.903	236.923	6	0.017	0.022	NetworkFix
1081	4528169.298	9435379.044	236.676	6	0.019	0.021	NetworkFix
1082	4528169.276	9435379.025	236.815	6	0.020	0.022	NetworkFix
1083	4528169.670	9435374.805	236.643	6	0.032	0.026	NetworkFix
1084	4528169.691	9435374.791	236.750	4	0.040	0.036	NetworkFix
1085	4528173.618	9435361.605	236.047	6	0.019	0.020	NetworkFix
1086	4528173.550	9435361.579	236.212	6	0.020	0.021	NetworkFix
1087	4528177.325	9435350.172	235.691	6	0.020	0.021	NetworkFix
1088	4528177.278	9435350.165	235.860	6	0.019	0.022	NetworkFix
1089	4528179.449	9435343.331	235.510	6	0.019	0.021	NetworkFix
1090	4528179.399	9435343.316	235.685	6	0.018	0.019	NetworkFix
1091	4528181.799	9435336.033	235.108	6	0.013	0.019	NetworkFix

1092	4528181.738	9435336.063	235.291	6	0.012	0.019	NetworkFix
1093	4528184.258	9435328.346	234.577	6	0.011	0.020	NetworkFix
1094	4528184.196	9435328.309	234.730	6	0.010	0.018	NetworkFix
1095	4528186.029	9435322.933	234.166	6	0.010	0.018	NetworkFix
1096	4528185.943	9435322.940	234.293	6	0.010	0.019	NetworkFix
1097	4528186.390	9435320.280	233.961	6	0.011	0.018	NetworkFix
1098	4528186.333	9435320.260	234.115	6	0.010	0.018	NetworkFix
1099	4528185.897	9435317.408	233.710	6	0.011	0.019	NetworkFix
1100	4528185.845	9435317.391	233.942	5	0.009	0.018	NetworkFix
1101	4528184.536	9435313.962	233.403	6	0.009	0.019	NetworkFix
1102	4528184.414	9435313.991	233.654	6	0.010	0.018	NetworkFix
1103	4528182.737	9435311.730	233.222	6	0.009	0.018	NetworkFix
1104	4528182.678	9435311.801	233.459	6	0.009	0.018	NetworkFix
1105	4528180.369	9435309.882	232.957	6	0.009	0.018	NetworkFix
1106	4528180.330	9435309.956	233.202	6	0.009	0.018	NetworkFix
1107	4528177.282	9435308.421	232.808	6	0.009	0.019	NetworkFix
1108	4528177.283	9435308.499	233.021	6	0.009	0.019	NetworkFix
1109	4528175.091	9435308.023	232.749	6	0.009	0.018	NetworkFix
1110	4528175.060	9435308.074	232.964	6	0.010	0.018	NetworkFix
1111	4528172.129	9435308.098	232.600	6	0.010	0.018	NetworkFix
1112	4528172.167	9435308.170	232.816	6	0.010	0.018	NetworkFix
1113	4528170.146	9435308.602	232.546	6	0.011	0.023	NetworkFix
1114	4528170.196	9435308.634	232.758	6	0.009	0.018	NetworkFix
1115	4528167.627	9435309.862	232.410	6	0.009	0.020	NetworkFix
1116	4528167.654	9435309.896	232.606	6	0.009	0.020	NetworkFix
1117	4528165.273	9435311.609	232.286	6	0.010	0.024	NetworkFix
1118	4528165.294	9435311.658	232.503	6	0.012	0.025	NetworkFix
1119	4528163.602	9435313.948	232.207	6	0.013	0.026	NetworkFix
1120	4528163.639	9435313.984	232.348	6	0.013	0.026	NetworkFix
1121	4528162.576	9435315.641	232.168	6	0.013	0.019	NetworkFix
1122	4528162.638	9435315.655	232.158	6	0.010	0.029	NetworkFix
1123	4528158.866	9435325.308	232.151	6	0.012	0.019	NetworkFix
1124	4528158.926	9435325.336	232.240	6	0.012	0.019	NetworkFix
1125	4528157.438	9435327.993	232.152	6	0.010	0.019	NetworkFix
1126	4528157.507	9435328.049	232.247	6	0.010	0.019	NetworkFix
1127	4528153.913	9435332.579	232.080	6	0.010	0.019	NetworkFix
1128	4528153.923	9435332.623	232.200	6	0.010	0.019	NetworkFix
1129	4528150.905	9435335.787	231.995	6	0.011	0.020	NetworkFix
1130	4528150.926	9435335.834	232.153	6	0.010	0.020	NetworkFix
1131	4528148.144	9435337.975	231.920	6	0.010	0.019	NetworkFix
1132	4528148.188	9435338.003	232.087	6	0.010	0.019	NetworkFix
1133	4528144.813	9435340.285	231.872	6	0.010	0.019	NetworkFix
1134	4528144.859	9435340.297	232.042	6	0.010	0.019	NetworkFix
1135	4528144.446	9435340.779	231.872	6	0.010	0.019	NetworkFix
1136	4528144.484	9435340.768	232.031	6	0.010	0.018	NetworkFix
1137	4528144.817	9435342.245	231.932	6	0.010	0.018	NetworkFix
1138	4528144.830	9435342.228	232.055	6	0.010	0.018	NetworkFix
1139	4528145.931	9435344.982	232.028	6	0.010	0.018	NetworkFix
1140	4528146.011	9435345.010	232.123	6	0.010	0.018	NetworkFix
1141	4528140.351	9435347.652	231.764	6	0.010	0.018	NetworkFix
1142	4528140.404	9435347.697	231.838	6	0.009	0.018	NetworkFix
1143	4528135.545	9435361.796	232.406	6	0.011	0.017	NetworkFix
1144	4528151.624	9435338.232	232.223	6	0.011	0.022	NetworkFix
1145	4528156.478	9435332.433	232.288	6	0.011	0.019	NetworkFix
1146	4528157.665	9435331.638	232.322	6	0.011	0.019	NetworkFix
1147	4528160.645	9435332.901	232.320	6	0.011	0.018	NetworkFix
1148	4528156.926	9435341.725	232.244	6	0.014	0.024	NetworkFix
1149	4528158.804	9435330.840	232.296	6	0.011	0.020	NetworkFix
1150	4528159.513	9435328.992	232.296	6	0.011	0.019	NetworkFix
1151	4528161.787	9435329.759	232.907	6	0.011	0.019	NetworkFix
1152	4528161.108	9435331.590	232.954	6	0.011	0.019	NetworkFix
1153	4528163.405	9435332.240	233.586	6	0.011	0.020	NetworkFix
1154	4528164.042	9435330.546	233.580	6	0.012	0.022	NetworkFix
1155	4528166.399	9435331.396	234.237	5	0.014	0.027	NetworkFix
1156	4528165.667	9435333.174	234.340	6	0.014	0.026	NetworkFix
1157	4528167.377	9435333.784	234.740	3	0.020	0.058	NetworkFix
1158	4528168.056	9435331.975	234.705	6	0.016	0.028	NetworkFix
1159	4528176.959	9435337.029	235.266	6	0.011	0.020	NetworkFix
1160	4528179.738	9435335.909	235.354	6	0.011	0.019	NetworkFix
1161	4528179.438	9435335.498	235.291	6	0.011	0.021	NetworkFix
1162	4528181.388	9435330.672	235.006	6	0.010	0.018	NetworkFix
1163	4528184.008	9435322.389	234.348	6	0.010	0.019	NetworkFix
1164	4528183.729	9435322.158	234.366	6	0.010	0.017	NetworkFix
1165	4528182.326	9435314.595	233.687	6	0.010	0.020	NetworkFix
1166	4528179.522	9435311.752	233.296	6	0.010	0.020	NetworkFix
1167	4528176.905	9435310.466	233.122	6	0.010	0.020	NetworkFix
1168	4528174.639	9435310.134	232.995	6	0.009	0.022	NetworkFix
1169	4528171.665	9435310.202	232.824	6	0.010	0.024	NetworkFix
1170	4528169.671	9435310.864	232.739	6	0.009	0.018	NetworkFix
1171	4528167.150	9435312.774	232.559	6	0.009	0.019	NetworkFix
1172	4528166.316	9435313.612	232.515	6	0.010	0.019	NetworkFix
1173	4528171.987	9435316.221	233.360	6	0.010	0.023	NetworkFix
1174	4528172.371	9435315.352	233.335	6	0.011	0.024	NetworkFix
1175	4528167.903	9435312.612	232.712	6	0.011	0.022	NetworkFix
1176	4528165.916	9435314.128	232.443	6	0.011	0.021	NetworkFix
1177	4528164.500	9435316.615	232.357	6	0.014	0.022	NetworkFix
1178	4528160.371	9435326.724	232.352	4	0.015	0.026	NetworkFix
1179	4528152.584	9435330.407	232.130	6	0.011	0.020	NetworkFix
1180	4528150.361	9435329.519	232.084	6	0.012	0.019	NetworkFix
1181	4528154.127	9435331.821	232.073	6	0.011	0.017	NetworkFix
1	4528154.494	9435192.992	228.372	6	0.008	0.012	NetworkFix

2	4528155.186	9435189.965	228.302	6	0.008	0.012	NetworkFix
3	4528150.335	9435188.407	228.460	6	0.007	0.011	NetworkFix
4	4528148.425	9435188.231	228.517	6	0.007	0.011	NetworkFix
5	4528146.644	9435188.594	228.563	6	0.008	0.012	NetworkFix
6	4528144.442	9435189.992	228.716	6	0.007	0.011	NetworkFix
7	4528142.766	9435191.383	228.871	6	0.007	0.011	NetworkFix
8	4528153.972	9435194.917	228.475	6	0.007	0.011	NetworkFix
9	4528128.556	9435242.719	229.514	6	0.007	0.011	NetworkFix
10	4528126.207	9435241.764	229.422	6	0.008	0.012	NetworkFix
11	4528124.841	9435246.777	229.578	6	0.009	0.013	NetworkFix
12	4528127.094	9435247.211	229.649	6	0.009	0.014	NetworkFix
1	4528272.338	9435228.834	232.756	6	0.007	0.011	NetworkFix
2	4528275.763	9435232.570	232.772	6	0.007	0.011	NetworkFix
3	4528275.228	9435234.279	232.761	6	0.007	0.011	NetworkFix
4	4528275.232	9435234.313	232.941	6	0.007	0.011	NetworkFix
5	4528272.809	9435233.790	232.776	6	0.007	0.012	NetworkFix
6	4528272.793	9435233.828	232.932	6	0.007	0.011	NetworkFix
7	4528272.563	9435234.981	232.957	6	0.007	0.013	NetworkFix
8	4528272.550	9435235.024	233.121	6	0.007	0.011	NetworkFix
9	4528274.974	9435235.405	232.975	5	0.007	0.013	NetworkFix
10	4528274.986	9435235.436	233.125	6	0.007	0.013	NetworkFix
11	4528274.692	9435236.547	233.124	6	0.007	0.013	NetworkFix
12	4528272.315	9435236.158	233.070	6	0.007	0.012	NetworkFix
13	4528272.161	9435236.941	233.751	6	0.007	0.012	NetworkFix
14	4528274.569	9435237.517	233.780	6	0.008	0.014	NetworkFix
15	4528270.735	9435231.605	232.798	6	0.008	0.014	NetworkFix
16	4528270.708	9435231.605	232.917	6	0.009	0.016	NetworkFix
17	4528270.543	9435229.097	232.773	6	0.007	0.013	NetworkFix
18	4528270.501	9435229.112	232.936	6	0.007	0.012	NetworkFix
19	4528269.230	9435229.213	232.946	6	0.007	0.013	NetworkFix
20	4528269.173	9435229.210	233.115	6	0.008	0.014	NetworkFix
21	4528269.391	9435231.684	232.911	6	0.008	0.014	NetworkFix
22	4528269.349	9435231.692	233.068	6	0.008	0.014	NetworkFix
23	4528268.028	9435231.725	233.069	6	0.007	0.013	NetworkFix
24	4528267.857	9435229.321	233.080	6	0.008	0.014	NetworkFix
25	4528266.897	9435229.380	233.762	6	0.007	0.012	NetworkFix
26	4528267.159	9435231.677	233.747	6	0.006	0.010	NetworkFix
27	4528181.207	9435253.280	231.114	6	0.017	0.019	NetworkFix
28	4528134.894	9435228.595	229.558	6	0.007	0.013	NetworkFix
29	4528133.553	9435232.507	229.563	6	0.006	0.012	NetworkFix
30	4528151.787	9435238.603	230.378	6	0.014	0.020	NetworkFix
31	4528152.127	9435247.380	230.487	5	0.023	0.043	NetworkFix
32	4528157.675	9435257.505	230.683	3	0.064	0.057	NetworkFix
33	4528126.091	9435239.912	229.365	6	0.008	0.015	NetworkFix
34	4528125.597	9435239.948	229.364	6	0.009	0.016	NetworkFix
35	4528125.011	9435240.129	229.375	6	0.009	0.016	NetworkFix
36	4528124.536	9435240.350	229.379	6	0.008	0.015	NetworkFix
37	4528124.186	9435240.773	229.364	6	0.009	0.016	NetworkFix
38	4528123.581	9435242.772	229.366	6	0.009	0.016	NetworkFix
39	4528159.484	9435328.930	232.231	6	0.027	0.051	NetworkFix
40	4528158.787	9435330.791	232.174	6	0.028	0.056	NetworkFix
41	4528159.658	9435331.084	232.921	6	0.027	0.056	NetworkFix
42	4528160.342	9435329.272	232.896	6	0.027	0.056	NetworkFix
43	4528161.731	9435329.749	232.903	6	0.028	0.056	NetworkFix
44	4528161.056	9435331.561	232.918	6	0.028	0.056	NetworkFix
45	4528161.992	9435331.822	233.480	6	0.028	0.056	NetworkFix
46	4528162.680	9435329.994	233.501	6	0.028	0.056	NetworkFix
47	4528163.995	9435330.497	233.643	6	0.027	0.056	NetworkFix
48	4528192.799	9435311.756	233.592	6	0.010	0.018	NetworkFix
49	4528193.174	9435311.880	233.971	6	0.008	0.015	NetworkFix
50	4528193.347	9435309.939	233.630	6	0.008	0.016	NetworkFix
51	4528193.742	9435310.051	233.973	6	0.009	0.017	NetworkFix
52	4528195.599	9435310.751	234.065	6	0.009	0.017	NetworkFix
53	4528195.029	9435312.566	234.036	6	0.009	0.017	NetworkFix
54	4528196.352	9435313.041	234.828	6	0.010	0.020	NetworkFix
55	4528196.893	9435311.194	234.818	6	0.011	0.020	NetworkFix
56	4528198.413	9435311.693	234.924	6	0.011	0.020	NetworkFix
57	4528197.792	9435313.481	234.966	6	0.011	0.021	NetworkFix
58	4528199.798	9435314.268	236.060	6	0.011	0.021	NetworkFix
59	4528200.378	9435312.310	236.041	6	0.011	0.021	NetworkFix
60	4528197.288	9435321.577	236.160	6	0.013	0.024	NetworkFix
61	4528197.778	9435321.773	236.191	6	0.012	0.023	NetworkFix
62	4528232.328	9435334.300	238.417	6	0.011	0.021	NetworkFix
63	4528232.695	9435337.516	238.442	6	0.011	0.020	NetworkFix
64	4528230.188	9435336.862	237.910	6	0.011	0.020	NetworkFix
65	4528227.806	9435348.342	238.738	6	0.017	0.022	NetworkFix
66	4528225.699	9435347.538	237.932	6	0.022	0.026	NetworkFix
67	4528226.373	9435347.749	237.917	6	0.020	0.026	NetworkFix
68	4528274.159	9435302.628	237.133	6	0.012	0.019	NetworkFix
69	4528273.644	9435303.446	237.173	6	0.012	0.018	NetworkFix
70	4528274.149	9435302.586	237.239	6	0.012	0.019	NetworkFix
71	4528274.163	9435301.934	237.033	6	0.012	0.021	NetworkFix
72	4528274.066	9435301.936	237.225	6	0.012	0.020	NetworkFix
73	4528273.986	9435301.459	237.022	6	0.010	0.015	NetworkFix
74	4528273.925	9435301.446	237.157	6	0.011	0.016	NetworkFix
75	4528273.573	9435300.672	237.050	6	0.011	0.019	NetworkFix
76	4528273.507	9435300.661	237.126	6	0.009	0.016	NetworkFix
77	4528273.066	9435299.608	236.944	4	0.021	0.033	NetworkFix
78	4528273.018	9435299.649	237.079	6	0.009	0.015	NetworkFix
79	4528262.864	9435412.931	246.730	6	0.010	0.018	NetworkFix
80	4528262.739	9435406.418	244.745	6	0.011	0.028	NetworkFix

81	4528259.861	9435415.563	246.322	6	0.009	0.019	NetworkFix
82	4528247.498	9435443.005	246.020	6	0.009	0.017	NetworkFix
83	4528217.314	9435383.319	239.731	6	0.021	0.018	NetworkFix
84	4528215.920	9435382.845	239.127	6	0.021	0.018	NetworkFix
85	4528218.208	9435375.464	239.538	6	0.022	0.020	NetworkFix
86	4528217.892	9435375.388	239.233	6	0.021	0.019	NetworkFix
87	4528164.874	9435330.857	234.259	5	0.031	0.032	NetworkFix
88	4528164.595	9435331.133	232.394	5	0.039	0.040	NetworkFix
89	4528169.643	9435310.826	232.736	6	0.009	0.022	NetworkFix
90	4528169.642	9435310.868	233.164	6	0.010	0.022	NetworkFix
91	4528168.131	9435313.459	232.756	6	0.009	0.020	NetworkFix
92	4528168.239	9435313.394	233.142	6	0.009	0.022	NetworkFix
93	4528171.820	9435312.745	233.237	6	0.010	0.019	NetworkFix
94	4528176.773	9435310.492	233.407	6	0.010	0.018	NetworkFix
95	4528176.740	9435310.461	233.184	6	0.009	0.018	NetworkFix
96	4528176.047	9435311.828	233.253	6	0.011	0.019	NetworkFix
97	4528176.111	9435311.896	233.454	6	0.013	0.023	NetworkFix
98	4528168.068	9435312.555	232.655	6	0.010	0.025	NetworkFix
99	4528257.838	9435313.106	237.698	6	0.009	0.013	NetworkFix
100	4528253.993	9435313.496	237.601	6	0.009	0.013	NetworkFix
101	4528253.765	9435314.541	237.730	6	0.009	0.013	NetworkFix
102	4528262.706	9435309.415	237.514	6	0.009	0.014	NetworkFix
103	4528270.742	9435301.952	237.557	6	0.012	0.020	NetworkFix
104	4528249.616	9435284.516	235.451	6	0.034	0.029	NetworkFix
105	4528249.379	9435285.168	235.779	6	0.034	0.029	NetworkFix
106	4528251.137	9435264.378	234.600	6	0.008	0.014	NetworkFix
107	4528251.851	9435263.658	233.933	6	0.008	0.014	NetworkFix
108	4528252.324	9435263.034	233.922	6	0.009	0.017	NetworkFix
109	4528238.170	9435248.453	233.098	6	0.008	0.013	NetworkFix
110	4528237.068	9435245.894	232.990	6	0.007	0.012	NetworkFix
111	4528238.224	9435245.441	233.792	6	0.007	0.012	NetworkFix
112	4528239.300	9435247.916	233.783	6	0.008	0.014	NetworkFix