

HIGH PRECISION VERTICAL CONTROL NETWORK MODEL:
SOUTHWEST GULF COAST REGION, FLORIDA

FINAL REPORT

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INTRODUCTION

As part of an effort to develop a consistent and accurate vertical control network state-wide for Florida's Coastline, University of Florida researchers, in collaboration with the Bureau of Beaches and Coastal System (BBCS), collected and adjusted GPS L1/L2 observations for the 6-county South West Gulf Coast Region. Such data will be collected and adjusted annually to transition conventionally collected geodetic control surveys to a modern GPS, High Accuracy Reference Network (HARN) based system. In the horizontal component, the transition has been smooth. In the vertical component, the geography of the area has made it difficult to achieve the necessary accuracy. The eventual objective will be accomplished by conducting a high precision GPS survey of a region of the coast at a given time each year. Each network will be adjusted annually and ultimately, one consistent vertical control network for the entire coastline controlled by GPS will be developed.

The National Geodetic Survey (NGS) has published standards for achieving two- and five-cm accuracies for GPS derived heights (see http://www.ngs.noaa.gov/PUBS_LIB/DRAFTGuidelinesforEstablishingGPSderivedOrthometricHeights.pdf for more information). It is the intent of the University of Florida in cooperation with Department of Environmental Protection, Bureau of Beaches and Coastal Systems to apply these standards to develop and implement a GPS-derived vertical control network with improved vertical accuracies for all coastal monitoring activities.

NETWORK DESIGN AND ADJUSTMENT STRATEGY

Our strategy for the development of high-accuracy elevations along the coastline hinges on observing two networks, one being of higher accuracy (Tier 1) and used as control for the adjustment of the other (Tier 2). Positions of Tier-1 GPS network stations for this Southwest region were processed using the Online User Positioning Service (OPUS), which is a web-based static GPS processing engine built around the PAGES software. See <http://www.ngs.noaa.gov/OPUS/> for more information. Second-tier network observations were

processed by both Ashtech Office Suite (Version 2) and Ashtech Solutions Software, and then adjusted by a least-squares method using Ashtech Office Suite.

GPS OBSERVATIONS AND TIER 1 NETWORK ADJUSTMENT

GPS observation sessions were conducted by FDEP from March 18, 2005 through December 28, 2005. Each session was roughly three hours in duration, logging once every five seconds, with one hour between sessions. This schedule follows the 2-cm guidelines by NGS mentioned previously. These data were provided to UF in Ashtech binary format, as well as OPUS solutions for all sessions. The 36 Tier-1 stations along with the CORS used in processing positions are shown below in Figure 1.

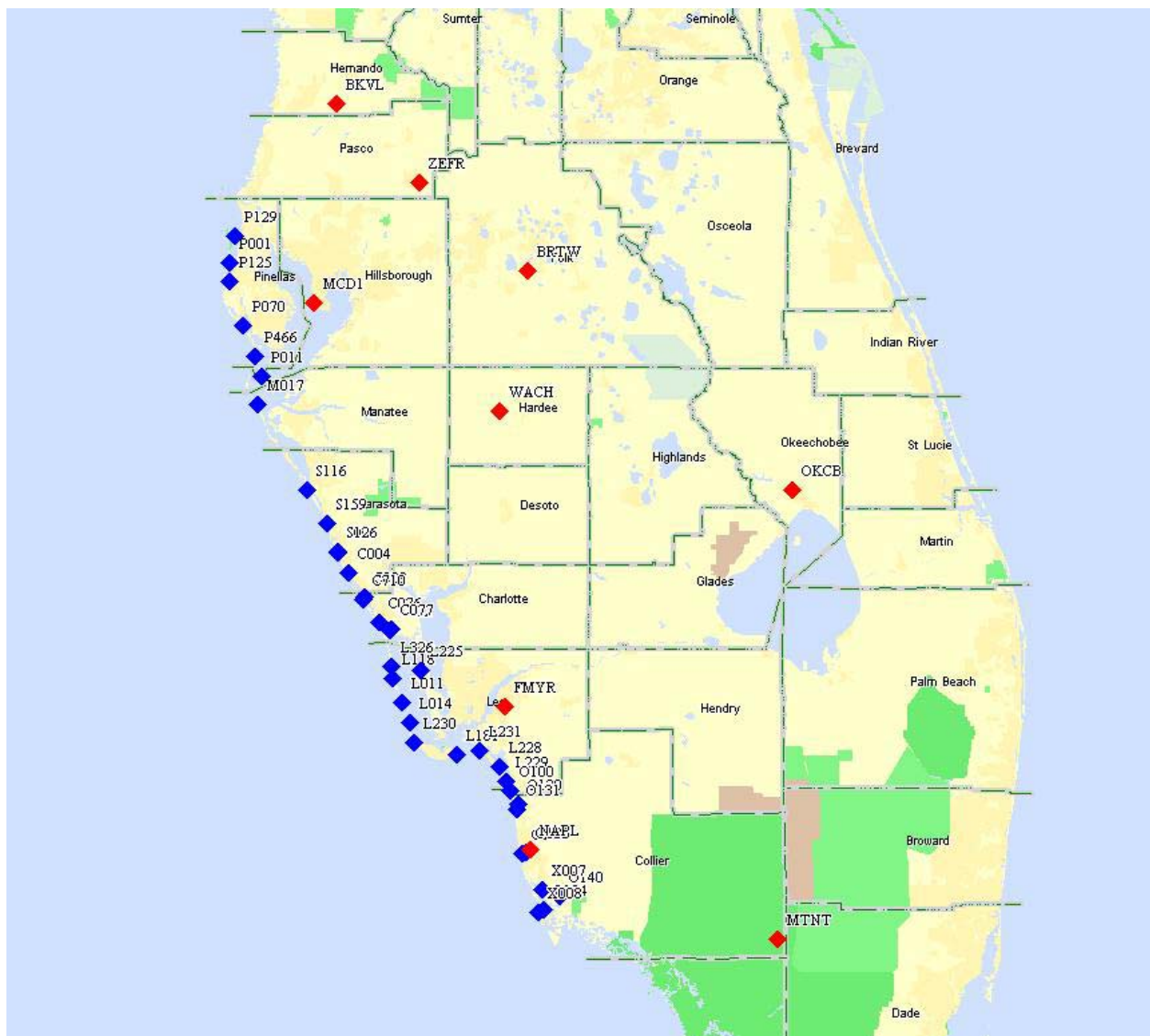


Figure 1 - Tier-1 stations shown in blue, CORS in red.

TIER 1 CONTROL STATIONS

OPUS solutions for the 36 Tier-1 stations were tied to 9 CORS stations: BKVL, ZEFR, MCD1, BRTW, WACH, OKCB, FMYR, NAPL, and MTNT. These stations appear in Figure1 as red triangles. All Tier-1 stations had at least 2 three-hour sessions (many stations had more than two sessions, some as many as six sessions) except C077 which had a single session of 3.7 hours and L225 which had a single 3.0 hour session. Table 1 (below) gives the session summary.

No.	SSN	Session	Latitude			Longitude			Ellipsoid Height	Session Difference	Weighted Average
1	C002	A	26	49	55.492	82	15	57.049	-23.326	0.007	-23.330
	C002	B	26	49	55.492	82	15	57.049	-23.333		
2	C004	A	27	0	38.688	82	24	42.160	-21.732	0.079	-21.719
	C004	B	27	0	38.688	82	24	42.162	-21.775		
	C004	C	27	0	38.689	82	24	42.160	-21.702		
	C004	D	27	0	38.689	82	24	42.160	-21.740		
	C004	E	27	0	38.688	82	24	42.159	-21.711		
	C004	F	27	0	38.688	82	24	42.160	-21.696		
3	C009	A	26	55	59.931	82	21	14.387	-20.322	0.058	-20.300
	C009	B	26	55	59.931	82	21	14.387	-20.264		
	C009	C	26	55	59.932	82	21	14.385	-20.286		
	C009	D	26	55	59.931	82	21	14.387	-20.306		
4	C076	A	26	51	21.604	82	18	10.362	-23.452	0.014	-23.454
	C076	B	26	51	21.604	82	18	10.362	-23.461		
	C076	C	26	51	21.604	82	18	10.360	-23.448		
	C076	D	26	51	21.604	82	18	10.362	-23.462		
5	C077	A 3.7 Hours	26	50	1.581	82	15	49.947	-21.028	0.000	-21.028
6	C710	A	26	55	33.524	82	21	43.780	-21.522	0.013	-21.527
	C710	B	26	55	33.524	82	21	43.780	-21.535		
7	L011	A	26	36	14.907	82	13	22.224	-22.525	0.068	-22.550
	L011	B	26	36	14.907	82	13	22.224	-22.593		
8	L014	A	26	32	28.390	82	11	48.195	-22.012	0.038	-21.983
	L014	B	26	32	28.390	82	11	48.196	-21.974		
	L014	C	26	32	28.390	82	11	48.196	-21.978		
	L014	D	26	32	28.390	82	11	48.195	-21.986		
	L014	E	26	32	28.390	82	11	48.195	-21.994		
9	L118	A	26	40	52.093	82	15	23.065	-22.466	0.020	-22.446
	L118	B	26	40	52.093	82	15	23.065	-22.446		
10	L181	A	26	26	30.673	82	1	56.035	-22.782	0.010	-22.787
	L181	B	26	26	30.673	82	1	56.035	-22.792		

11	L225	A 3.0 Hours	26	42	21.529	82	9	39.538	-23.360	0.000	-23.360
12	L228	A	26	24	16.855	81	52	59.408	-20.869	0.009	-20.874
	L228	B	26	24	16.855	81	52	59.408	-20.878		
13	L229	A	26	21	38.816	81	51	27.654	-20.193	0.046	-20.196
	L229	B	26	21	38.816	81	51	27.653	-20.227		
	L229	C	26	21	38.816	81	51	27.654	-20.181		
14	L230	A	26	28	50.658	82	10	50.068	-22.509	0.003	-22.508
	L230	B	26	28	50.658	82	10	50.069	-22.506		
15	L231	A	26	27	16.739	81	57	16.723	-16.882	0.086	-16.896
	L231	B	26	27	16.739	81	57	16.724	-16.955		
	L231	C	26	27	16.739	81	57	16.723	-16.892		
	L231	D	26	27	16.739	81	57	16.723	-16.869		
16	L326	A	26	43	6.699	82	15	43.284	-22.381	0.026	-22.373
	L326	B	26	43	6.699	82	15	43.285	-22.373		
	L326	C	26	43	6.699	82	15	43.284	-22.355		
	L326	D	26	43	6.699	82	15	43.285	-22.363		
17	M017	A	27	31	56.869	82	43	56.299	-23.662	0.041	-23.643
	M017	B	27	31	56.870	82	43	56.299	-23.633		
	M017	C	27	31	56.869	82	43	56.299	-23.645		
	M017	D	27	31	56.869	82	43	56.299	-23.657		
	M017	E	27	31	56.869	82	43	56.299	-23.621		
18	O100	A	26	19	51.100	81	50	43.215	-22.020	0.008	-22.020
	O100	B	26	19	51.100	81	50	43.215	-22.012		
19	O130	A	26	17	22.507	81	49	6.807	-21.246	0.044	-21.231
	O130	B	26	17	22.506	81	49	6.806	-21.202		
20	O131	A	26	16	20.168	81	49	24.207	-17.265	0.027	-17.260
	O131	B	26	16	20.167	81	49	24.207	-17.265		
	O131	C	26	16	20.167	81	49	24.207	-17.238		
21	O132	A	26	7	58.994	81	48	7.483	-21.940	0.081	-21.971
	O132	B	26	7	58.994	81	48	7.483	-21.958		
	O132	C	26	7	58.994	81	48	7.483	-22.021		
	O132	D	26	7	58.994	81	48	7.480	-21.979		
	O132	E	26	7	58.994	81	48	7.478	-21.998		
22	O133	A	26	8	16.343	81	47	18.371	-22.632	0.043	-22.620
	O133	B	26	8	16.343	81	47	18.370	-22.589		
23	O134	A	25	57	35.119	81	43	37.950	-22.653	0.062	-22.611
	O134	B	25	57	35.119	81	43	37.949	-22.591		

24	O140	A	25	59	58.320	81	40	25.917	-22.567	0.118	-22.470
	O140	B	25	59	58.319	81	40	25.915	-22.449		
25	P001	A	27	58	35.541	82	49	44.165	-22.935	0.037	-22.935
	P001	B	27	58	35.541	82	49	44.165	-22.919		
	P001	C	27	58	35.541	82	49	44.165	-22.956		
26	P011	A	27	37	24.220	82	42	50.933	-23.046	0.036	-23.036
	P011	B	27	37	24.220	82	42	50.934	-23.045		
	P011	C	27	37	24.220	82	42	50.933	-23.055		
	P011	D	27	37	24.221	82	42	50.933	-23.019		
	P011	E	27	37	24.220	82	42	50.933	-23.021		
27	P070	A	27	46	51.914	82	46	55.372	-22.373	0.028	-22.377
	P070	B	27	46	51.914	82	46	55.371	-22.396		
	P070	C	27	46	51.915	82	46	55.372	-22.368		
28	P125	A	27	55	2.836	82	49	34.329	-23.599	0.072	-23.591
	P125	B	27	55	2.836	82	49	34.329	-23.579		
	P125	C	27	55	2.836	82	49	34.329	-23.601		
	P125	D	27	55	2.835	82	49	34.328	-23.529		
29	P129	A	28	3	33.394	82	48	39.401	-19.660	0.040	-19.675
	P129	B	28	3	33.394	82	48	39.401	-19.674		
	P129	C	28	3	33.394	82	48	39.401	-19.687		
	P129	D	28	3	33.394	82	48	39.401	-19.647		
30	P466	A	27	40	59.756	82	44	16.358	-22.429	0.022	-22.443
	P466	B	27	40	59.756	82	44	16.357	-22.451		
	P466	C	27	40	59.757	82	44	16.358	-22.445		
	P466	D	27	40	59.757	82	44	16.357	-22.431		
31	S003	A	27	4	23.380	82	27	2.534	-20.844	0.090	-20.844
	S003	B	27	4	23.380	82	27	2.534	-20.800		
	S003	C	27	4	23.380	82	27	2.538	-20.890		
32	S116	A	27	16	2.922	82	33	20.498	-22.861	0.053	-22.874
	S116	B	27	16	2.922	82	33	20.498	-22.853		
	S116	C	27	16	2.922	82	33	20.497	-22.869		
	S116	D	27	16	2.923	82	33	20.498	-22.876		
	S116	E	27	16	2.923	82	33	20.498	-22.890		
	S116	F	27	16	2.922	82	33	20.499	-22.837		
33	S126	A	27	4	32.832	82	26	49.169	-19.714	0.011	-19.709
	S126	B	27	4	32.832	82	26	49.169	-19.703		
34	S159	A	27	9	41.007	82	29	12.985	-23.061	0.079	-22.998
	S159	B	27	9	41.008	82	29	12.985	-22.996		
	S159	C	27	9	41.008	82	29	12.986	-22.982		
	S159	D	27	9	41.007	82	29	12.986	-23.024		

35	X007	A	26	1	21.294	81	43	58.012	-21.072	0.034	-21.052
	X007	B	26	1	21.295	81	43	58.011	-21.038		
36	X008	A	25	56	59.290	81	44	46.912	-22.481	0.023	-22.480
	X008	B	25	56	59.290	81	44	46.912	-22.481		
	X008	C	25	56	59.290	81	44	46.912	-22.487		
	X008	D	25	56	59.290	81	44	46.909	-22.492		
	X008	E	25	56	59.290	81	44	46.911	-22.469		

Table 2 – Session summary for Tier-1 stations.

Session difference (column 11 in Table 1) is the spread of ellipsoid height values from the OPUS solutions for each station. This value ranged from a low of 7 mm (C002) to a high of 118 mm at station 0140. The average range of ellipsoid height values for a single station across multiple OPUS solutions was 4 cm. An analysis of the peak-to-peak error reported in the OPUS solution revealed a large difference in the expected accuracy of the ellipsoid heights. The OPUS web page explains peak-to-peak errors like this:

Accuracy estimates for GPS reductions obtained by formal error propagation are notoriously optimistic. For this reason, OPUS does not rely only on the formal errors. Instead, the peak-to-peak error, or error range is provided for each coordinate component (XYZ and NEU). The peak-to-peak error is the difference between the maximum and the minimum value of a coordinate obtained from the 3 baseline solutions. A completely random population with a standard deviation of 1.0 cm, when sampled 3 times, will have a peak-to-peak error of 3.3 cm or less, 95% of the time. In other words, if you see a peak-to-peak variation in the ellipsoidal height of 3.3 cm or higher, there is a 5% chance that such a variation came from data that had a 1.0 cm (one sigma) precision. It is, of course, more likely that 3.3 cm or higher variation indicates a precision larger than 1.0 cm.

Because of the large differences in the peak-to-peak errors reported in OPUS solutions for some stations, a **weighted average** of the ellipsoid heights was calculated as the final adjusted height value, using the inverse of the OPUS-reported peak-to-peak errors as the weighting factor. This method has the advantage of relying heavily upon the better session values for ellipsoid height, and proportionately less on the noisier session values. The weighted average calculation for each station was performed in the following manner:

1. The ellipsoid height value along with its peak-to-peak error height error was extracted from each OPUS solution for that station.
2. The inverse of the ellipsoid height peak-to-peak error was calculated as the weight.
3. Each ellipsoid height value was then multiplied by its weight.
4. These products were then summed.
5. This sum was then divided by the sum total of all weights, yielding the weighted average.

The final adjusted values for ellipsoid heights of the Tier-1 stations are listed below in Table 2.

Station	Latitude	Longitude	Final Ellipsoid Height
C002	26 49 55.49156	-82 15 57.04910	-23.330
C004	27 0 38.68835	-82 24 42.15982	-21.719
C009	26 55 59.93149	-82 21 14.38674	-20.300
C076	26 51 21.60376	-82 18 10.36166	-23.454
C077	26 50 1.58099	-82 15 49.94724	-21.028
C710	26 55 33.52391	-82 21 43.77975	-21.527
L011	26 36 14.90668	-82 13 22.22439	-22.550
L014	26 32 28.38990	-82 11 48.19511	-21.983
L118	26 40 52.09275	-82 15 23.06451	-22.446
L181	26 26 30.67278	-82 1 56.03515	-22.787
L225	26 42 21.52921	-82 9 39.53799	-23.360
L228	26 24 16.85461	-81 52 59.40811	-20.874
L229	26 21 38.81601	-81 51 27.65377	-20.196
L230	26 28 50.65775	-82 10 50.06849	-22.508
L231	26 27 16.73884	-81 57 16.72346	-16.896
L326	26 43 6.69861	-82 15 43.28448	-22.373
M017	27 31 56.86925	-82 43 56.29930	-23.643
O100	26 19 51.09985	-81 50 43.21506	-22.020
O130	26 17 22.50662	-81 49 6.80686	-21.231
O131	26 16 20.16751	-81 49 24.20679	-17.260
O132	26 7 58.99411	-81 48 7.48264	-21.971
O133	26 8 16.34270	-81 47 18.37079	-22.620
O134	25 57 35.11870	-81 43 37.95019	-22.611
O140	25 59 58.31961	-81 40 25.91734	-22.470
P001	27 58 35.54095	-82 49 44.16462	-22.935
P011	27 37 24.22031	-82 42 50.93327	-23.036
P070	27 46 51.91443	-82 46 55.37155	-22.377
P125	27 55 2.83601	-82 49 34.32851	-23.591
P129	28 3 33.39406	-82 48 39.40107	-19.675
P466	27 40 59.75635	-82 44 16.35770	-22.443
S003	27 4 23.37965	-82 27 2.53370	-20.844
S116	27 16 2.92247	-82 33 20.49775	-22.874
S126	27 4 32.83157	-82 26 49.16855	-19.709
S159	27 9 41.00739	-82 29 12.98490	-22.998
X007	26 1 21.29445	-81 43 58.01194	-21.052
X008	25 56 59.28982	-81 44 46.91217	-22.480

Table 2 – Adjusted Ellipsoid height values for Tier-1 stations.

Final NAVD88 elevations (in meters) were obtained by adding the geoid height at each station as obtained from the GEOID03 model (NGS). These are presented below in Table 3 in BOLD.

SSN	Easting	Northing	Ellipsoid Height	GEOID03	GEOID99	Change in GEOID MODEL	Elevation GEOID03	Elevation GEOID99	NAVD88 Pub	Adj03 - Pub	Adj99 - Pub
C002	374216.6	2968464.1	-23.330	23.778	23.687	0.091	0.448	0.357	0.420	0.028	-0.063
C004	359941.8	2988409.3	-21.719	23.808	23.754	0.054	2.089	2.035	2.155	-0.066	-0.120
C009	365576.4	2979768.7	-20.300	23.769	23.698	0.071	3.469	3.398	3.495	-0.026	-0.097
C076	370563.8	2971151.1	-23.454	23.772	23.687	0.085	0.318	0.233	0.339	-0.021	-0.106
C077	374414.6	2968649.6	-21.028	23.779	23.687	0.092	2.751	2.659	2.766	-0.015	-0.107
C710	364757.0	2978964.9	-21.527	23.770	23.699		2.243	NA	NA	NA	NA
L011	378248.2	2943173.3	-22.550	23.641	23.529		1.091	NA	NA	NA	NA
L014	380783.8	2936179.1	-21.983	23.592	23.472		1.609	NA	NA	NA	NA
L118	374989.7	2951734.5	-22.446	23.723	23.618		1.277	NA	NA	NA	NA
L181	397082.8	2925030.7	-22.787	23.647	23.513		0.860	NA	NA	NA	NA
L225	384510.1	2954396.4	-23.360	23.744	23.635	0.109	0.384	0.275	0.397	-0.013	-0.122
L228	411917.4	2920803.0	-20.874	23.874	23.758	0.116	3.000	2.884	2.988	0.012	-0.104
L229	414427.2	2915923.6	-20.196	23.842	23.729	0.113	3.646	3.533	3.641	0.005	-0.108
L230	382330.8	2929464.9	-22.508	23.537	23.410	0.127	1.029	0.902	0.992	0.037	-0.090
L231	404829.4	2926388.2	-16.896	23.803	23.680	0.123	6.907	6.784	6.890	0.017	-0.106
L326	374471.8	2955881.8	-22.373	23.751	23.649		1.378	NA	NA	NA	NA
M017	328930.9	3046608.4	-23.643	24.267	24.154	0.113	0.624	0.511	0.634	-0.010	-0.123
O100	415637.1	2912601.5	-22.020	23.803	23.691	0.112	1.783	1.671	1.830	-0.047	-0.159
O130	418280.9	2908012.8	-21.231	23.752	23.645	0.107	2.521	2.414	2.515	0.006	-0.101
O131	417786.1	2906097.9	-17.260	23.709	23.598		6.449	NA	NA	NA	NA
O132	419818.9	2890666.1	-21.971	23.450	23.331	0.119	1.479	1.360	1.480	-0.001	-0.120
O133	421185.9	2891191.4	-22.620	23.475	23.364	0.111	0.855	0.744	0.832	0.023	-0.088
O134	427196.7	2871429.2	-22.611	23.222	23.108	0.114	0.611	0.497	0.653	-0.042	-0.156
O140	432559.8	2875806.0	-22.470	23.347	23.265	0.082	0.877	0.795	0.890	-0.013	-0.095
P001	320118.4	3095950.6	-22.935	24.601	24.475	0.126	1.666	1.540	1.700	-0.034	-0.160
P011	330863.8	3056658.3	-23.036	24.321	24.199	0.122	1.285	1.163	1.289	-0.004	-0.126
P070	324415.6	3074225.6	-22.377	24.327	24.196	0.131	1.950	1.819	1.960	-0.010	-0.141
P125	320289.3	3089399.6	-23.591	24.495	24.365	0.130	0.904	0.774	0.917	-0.013	-0.143
P129	322024.2	3105092.0	-19.675	24.794	24.678	0.116	5.119	5.003	5.132	-0.013	-0.129
P466	328615.5	3063324.7	-22.443	24.309	24.182		1.866	NA	NA	NA	NA
S003	356152.3	2995367.5	-20.844	23.880	23.836	0.044	3.036	2.992	3.204	-0.168	-0.212
S116	346007.4	3017019.5	-22.874	24.167	24.121		1.293	NA	NA	NA	NA
S126	356523.9	2995654.1	-19.709	23.884	23.839		4.175	NA	NA	NA	NA
S159	352674.4	3005183.8	-22.998	24.009	23.970	0.039	1.011	0.972	1.084	-0.073	-0.112
X007	426677.8	2878390.3	-21.052	23.327	23.222	0.105	2.275	2.170	2.311	-0.036	-0.141
X008	425272.6	2870337.8	-22.480	23.186	23.060		0.706	NA	NA	NA	NA

Table 3 – Adjusted NAVD88 Elevations for Tier-1 stations in RED and BOLD.

In Table 3 (above), Easting and Northing values are NAD83, UTM Zone 17 units are meters. The bold values are the final NAVD88 elevations (in meters) for Tier-1 stations, obtained by

combining the adjusted ellipsoid heights with the geoid heights from the GEOID03 model. The GEOID99 values are presented for comparison purposes only.

Table 3 also presents a comparison with published NAVD88 bench mark elevations for most stations. In general, the published values show very good agreement with the adjusted values from this study, with three exceptions: Station S003 shows a 168 mm deviation from its published value, S159 shows a 73 mm deviation, and C004 shows a 66 mm deviation. Note that the change in Geoid height from the GEOID99 model to the GEOID03 model shows an atypical variation at these locations as well. It may be that the geoid model needs further refinement near these stations. Excluding these three stations, the average difference between the adjusted elevations and the published value is 8 mm with a standard deviation of 22 mm.

SECOND-TIER NETWORK ADJUSTMENT

Using the coordinates obtained from the Tier 1 vertical network adjustment as control, three lower-order networks were adjusted, spanning the 6-county area. GPS vector data were provided to the GEM Center by FDEP in the form of Ashtech vector o-files. The Tier-2 network adjustment was completed using Ashtech Office Suite (version 2.0).

PROCEDURE

The Tier-2 adjustments were performed in several steps. The first step was to split Tier-2 into 3 separate adjustments based on geography, ensuring that each section contained an adequate number of Tier-1 control points as well as some “bridge” points that connected the separate pieces. Next, a free adjustment was performed on the three pieces in order to isolate any problematic vectors and analyze the integrity of the data. All 3 Tier-2 networks proved to be robust with no outliers detected. Tier-1 control points were assigned their known coordinates and weighted via a fixed weighting scheme, using standard deviations of 1 mm in northing and easting, 2 mm in height and an additional relative component of 15 ppm of vector length. Finally, three combined fixed adjustments and 7-parameter transformations were performed to obtain adjusted values of ellipsoid heights for all Tier-2 stations. The three Tier-2 pieces were broken down as follows:

Tier-2_A:

Statistics	
Adjustment in the national system.	
System: UTM 17 (Datum: WGS_84, Projection: UTM_WGS)	
Geoidmodel	None
Number of baselines	173
Number of terrestrial measurements	0
Number of control points in national system	7
Number of adjusted points	53
Confidence level	2 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	1.185

Tier-1 stations held fixed in adjustment Tier-2_A:

Point	N [m]	E [m]	ell.H [m]
M017	3046608.393	328930.870	-23.643
P001	3095950.605	320118.375	-22.935
P011	3056658.307	330863.831	-23.035
P070	3074225.648	324415.637	-22.377
P125	3089399.639	320289.324	-23.591
P129	3105092.025	322024.234	-19.675
P466	3063324.672	328615.479	-22.443

Tier-2 stations in adjustment Tier-2_A:

1001, M005, M017, M106, P001, P005, P007, P011, P014, P017, P028, P032, P033, P036, P040, P043, P053, P056, P070, P071, P073, P075, P076, P078, P084, P089, P096, P102, P105, P106, P109, P125, P126, P127, P128, P129, P334, P350, P430, P466, P494, P495, P751, P761, P775, P784, P796, P804, P818, P826, P840, P845, P852.

Note that with the given weighting scheme, the standard error of unit weight was 1.185, indicating realistic weights on the input GPS vectors.

Height residuals on the adjusted vectors averaged less than 1 cm, with the largest height residual (32 mm) occurring on a vector between 2 Tier-1 stations (P011-P466) which indicates that the Tier-2 GPS observation session yielded a differential height measurement that was (probably) less precise than the height values established by the Tier-1 observations on these points.

Station 1001 appears in this adjustment as well as in the Tier-2_B adjustment, but is obviously a different point. This duplicate name given to 2 different points is a blunder that should be addressed.

Tier-2_B:

Statistics	
Adjustment in the national system.	
System: UTM 17 (Datum: WGS_84, Projection: UTM_WGS)	
Geoidmodel	None
Number of baselines	332
Number of terrestrial measurements	0
Number of control points in national system	12
Number of adjusted points	106
Confidence level	2 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	1.494

Tier-1 stations held fixed in adjustment Tier-2_B:

Point	N [m]	E [m]	ell.H [m]
C004	2988409.275	359941.754	-21.718
C009	2979768.749	365576.419	-20.300
C076	2971151.093	370563.797	-23.454
C077	2968649.554	374414.541	-21.029
C710	2978964.859	364756.990	-21.527
L225	2954396.436	384510.071	-23.360
L326	2955881.820	374471.774	-22.373
M017	3046608.393	328930.870	-23.643
S003	2995367.480	356152.345	-20.844
S116	3017019.460	346007.355	-22.874
S126	2995654.101	356523.860	-19.709
S159	3005183.794	352674.422	-22.998

Tier-2 stations in adjustment Tier-2_B:

1001, 1002, C004, C009, C012, C016, C017, C023, C024, C029, C044, C075, C076, C077, C322, C332, C710, L007, L008, L103, L104, L106, L107, L108, L110, L111, L225, L227, L314, L326, L361, M003, M005, M010, M016, M017, M106, M115, M118, M120, M126, M129, M130, M131, M132, M341, M356, M709, M721, M731, M745, S002, S003, S103, S104, S107, S112, S114, S115, S116, S118, S121, S122, S123, S126, S127, S133, S134, S136, S140, S141, S143, S144, S145, S147, S148, S149, S150, S151, S152, S153, S156, S158, S159, S160, S162, S163, S164, S165, S170, S172, S173, S318, S361, S700, S704, S722, S735, S747, S785, S793, S804, S831, S837, S876, S901.

Note that with the given weighting scheme, the standard error of unit weight was 1.494, indicating realistic weights on the input GPS vectors.

Height residuals on the adjusted vectors again averaged less than 1 cm, with the largest height residual (87 mm) again occurring on a vector between 2 Tier-1 stations (S003-S126) which indicates that the Tier-2 GPS observation session yielded a differential height measurement that was again (probably) less precise than the height values established by the Tier-1 observations on these points. These Tier-2 solutions between Tier-1 stations offer a valuable glimpse into the accuracies of the Tier-2 observation sessions. Several other Tier-2 differential height measurements between Tier-2 stations had residuals in the 50 -60 mm range.

Finally, Tier-2_C:

Statistics	
Adjustment in the national system.	
System: UTM 17 (Datum: WGS_84, Projection: UTM_WGS)	
Geoidmodel	None
Number of baselines	214
Number of terrestrial measurements	0
Number of control points in national system	14
Number of adjusted points	70
Confidence level	1 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	0.389

Tier-1 stations held fixed in adjustment Tier-2_C:

Point	N [m]	E [m]	ell.H [m]
0100	2912601.506	415637.112	-22.020
0130	2908012.765	418280.867	-21.231
0131	2906097.947	417786.118	-17.260
0132	2890666.060	419818.879	-21.971
0133	2891191.443	421185.932	-22.620
0134	2871429.243	427196.687	-22.612
L014	2936179.099	380783.839	-21.983
L181	2925030.671	397082.760	-22.787
L228	2920802.964	411917.417	-20.874
L229	2915923.593	414427.159	-20.196
L230	2929464.942	382330.829	-22.508
L231	2926388.234	404829.393	-16.896

X007	2878390.348	426677.765	-21.052
X008	2870337.816	425272.553	-22.480

Tier-2 stations included in adjustment Tier-2_C:

0100, 0105, 0111, 0115, 0130, 0131, 0132, 0133, 0134, 0135, 0711, 0741, 0753, 0761, 0775, 0847, L014, L022, L142, L144, L155, L156, L163, L165, L166, L168, L169, L170, L179, L180, L181, L186, L187, L189, L192, L193, L194, L196, L199, L200, L210, L211, L212, L215, L216, L226, L228, L229, L230, L231, L232, L233, L235, L407, L416, L447, L456, L467, L469, L481, L783, L876, L881, L891, L919, L939, X001, X007, X008, X012.

TIER 2 ADJUSTMENT RESULTS

Table 4 (below) is a listing of all Tier-2 stations with their final adjusted ellipsoid heights and NAVD88 elevations as derived from GEOID03.

SSN	Northing	Easting	Adjusted Ellipsoid Height	Latitude	Longitude	NAVD88 Elevation(Geoid03)
105	2904909.5	417639.4	-21.571	26 15 41.50759	81 49 29.22297	2.113
111	2897245.1	418493.8	-21.789	26 11 32.56719	81 48 56.68456	1.758
115	2889925.5	419505.8	-20.836	26 07 34.86113	81 48 18.59142	2.598
135	2904050.5	417796.3	-21.517	26 15 13.62211	81 49 23.36873	2.152
711	2909453.0	416667.3	-20.618	26 18 08.98358	81 50 05.32334	3.140
741	2900548.6	418284.0	-20.390	26 13 19.90008	81 49 04.99448	3.217
753	2896602.4	418548.6	-21.273	26 11 11.68825	81 48 54.56591	2.263
761	2893879.3	419017.6	-22.086	26 09 43.27497	81 48 37.05861	1.407
775	2890513.0	419355.0	-20.070	26 07 53.92662	81 48 24.15218	3.371
847	2866292.3	427035.5	-21.239	25 54 48.11137	81 43 42.71757	1.898
1001	3082292.2	318291.5	-22.505	27 51 10.99844	82 50 43.46697	1.846
1001	3022437.5	343574.7	-22.884	27 18 57.95951	82 34 51.43506	1.343
1002	3026344.3	340502.4	-22.522	27 21 03.60806	82 36 45.01943	1.724
C012	2979373.2	364659.5	-22.495	26 55 46.75778	82 21 47.47403	1.275
C016	2977893.2	365447.9	-23.037	26 54 58.94169	82 21 18.31690	0.732
C017	2977576.9	365613.4	-23.063	26 54 48.72259	82 21 12.19435	0.706
C023	2974814.7	367309.1	-22.790	26 53 19.54962	82 20 09.67608	0.978
C024	2974340.4	367731.0	-21.948	26 53 04.28441	82 19 54.20593	1.820
C029	2972620.3	369064.4	-22.850	26 52 08.84084	82 19 05.23636	0.920
C044	2964341.6	373496.9	-22.285	26 47 41.29162	82 16 21.62198	1.492
C075	2972176.5	369151.8	-21.862	26 51 54.45078	82 19 01.90173	1.909
C322	2973167.6	368576.0	-22.516	26 52 26.46012	82 19 23.14197	1.253
L007	2963788.8	373721.4	-23.124	26 47 23.40176	82 16 13.29410	0.652
L008	2962820.5	374099.0	-22.966	26 46 52.05853	82 15 59.27077	0.809
L022	2926191.1	404773.0	-22.633	26 27 10.31743	81 57 18.70541	1.167
L103	2961791.1	374200.3	-22.991	26 46 18.64039	82 15 55.23324	0.782
L104	2961052.7	374274.9	-23.065	26 45 54.66898	82 15 52.26821	0.707
L106	2959599.6	374487.7	-22.640	26 45 07.51723	82 15 44.04017	1.127

L107	2959544.5	374384.8	-22.253	26 45 05.69517	82 15 47.74824	1.514
L108	2958914.6	374379.2	-21.831	26 44 45.22152	82 15 47.72198	1.934
L110	2957292.6	374476.9	-22.921	26 43 52.54447	82 15 43.60322	0.837
L111	2956878.6	374463.5	-22.845	26 43 39.08751	82 15 43.93973	0.911
L142	2934413.2	381280.3	-22.383	26 31 31.15076	82 11 29.66486	1.196
L144	2932084.4	381515.0	-20.782	26 30 15.54083	82 11 20.40548	2.777
L155	2927074.5	384704.9	-22.485	26 27 33.67467	82 09 23.55869	1.042
L156	2926282.9	385903.7	-22.151	26 27 08.29676	82 08 40.01949	1.376
L163	2924411.7	388122.0	-21.909	26 26 08.11854	82 07 19.33850	1.617
L165	2923979.1	389067.4	-22.415	26 25 54.32651	82 06 45.07439	1.115
L166	2923655.2	389970.7	-21.772	26 25 44.05133	82 06 12.36601	1.763
L168	2923462.9	390573.4	-22.096	26 25 37.96905	82 05 50.55184	1.444
L169	2923138.4	391321.1	-22.422	26 25 27.63132	82 05 23.46191	1.122
L170	2923057.4	391868.5	-22.025	26 25 25.14884	82 05 03.67864	1.525
L179	2924246.9	395800.4	-22.632	26 26 04.86218	82 02 42.10084	0.986
L180	2924625.4	396427.5	-22.774	26 26 17.33131	82 02 19.57438	0.858
L186	2926524.9	404326.2	-22.793	26 27 21.05879	81 57 34.92810	1.001
L187	2926240.4	404754.5	-22.762	26 27 11.91611	81 57 19.38917	1.038
L189	2925560.8	406409.0	-22.319	26 26 50.22279	81 56 19.46960	1.506
L192	2924779.2	407595.3	-22.367	26 26 25.10103	81 55 36.43371	1.473
L193	2924448.4	408061.6	-22.512	26 26 14.45692	81 55 19.51490	1.334
L194	2923939.2	408671.1	-22.636	26 25 58.05085	81 54 57.37964	1.216
L196	2923154.8	409398.2	-22.371	26 25 32.72357	81 54 30.93255	1.486
L199	2921012.9	410675.6	-22.111	26 24 23.39849	81 53 44.28052	1.742
L200	2920792.7	411093.6	-21.934	26 24 16.33673	81 53 29.13878	1.924
L210	2914830.2	414779.9	-22.767	26 21 03.35562	81 51 14.66681	1.062
L211	2914106.7	415092.6	-22.833	26 20 39.90458	81 51 03.21441	0.988
L212	2912828.5	415582.1	-22.403	26 19 58.46664	81 50 45.25280	1.403
L215	2920907.6	410802.4	-22.260	26 24 20.00428	81 53 39.67724	1.594
L216	2921088.1	410634.8	-22.303	26 24 25.83306	81 53 45.77285	1.551
L226	2949369.8	385097.0	-22.912	26 39 38.34752	82 09 16.65574	0.799
L227	2956007.2	374388.6	-22.873	26 43 10.74563	82 15 46.33782	0.879
L232	2912782.6	415721.6	-22.808	26 19 57.00462	81 50 40.20951	0.999
L233	2921434.9	410346.1	-22.093	26 24 37.03949	81 53 56.27938	1.760
L235	2920327.5	413172.8	-19.532	26 24 01.67864	81 52 13.98260	4.357
L314	2959426.4	374268.0	-21.034	26 45 01.81860	82 15 51.93172	2.733
L361	2965600.9	372527.7	-21.078	26 48 21.89918	82 16 57.17721	2.700
L407	2932464.0	381408.9	-21.448	26 30 27.84675	82 11 24.36440	2.114
L416	2929706.0	382095.1	-20.860	26 28 58.42152	82 10 58.66207	2.678
L447	2923844.5	389135.4	-20.003	26 25 49.96917	82 06 42.57804	3.526
L456	2922928.7	391701.8	-22.028	26 25 20.91932	82 05 09.65665	1.518
L467	2923699.3	394881.6	-22.104	26 25 46.82297	82 03 15.10754	1.494
L469	2923999.4	395380.2	-22.254	26 25 56.70830	82 02 57.19712	1.355
L481	2925893.1	398449.5	-22.625	26 26 59.05638	82 01 06.93957	1.054
L783	2937337.4	380370.7	-22.093	26 33 05.90729	82 12 03.51388	1.506
L876	2927306.6	403592.7	-22.274	26 27 46.28553	81 58 01.62556	1.514
L881	2926040.1	404596.1	-20.396	26 27 05.36703	81 57 25.05502	3.399
L891	2924638.5	407687.6	-22.597	26 26 20.54848	81 55 33.06747	1.244

L919	2918767.1	412730.0	-22.620	26 23 10.86413	81 52 29.58202	1.238
L939	2912550.1	415615.4	-21.373	26 19 49.42573	81 50 43.98632	2.429
M003	3040494.6	331698.2	-22.438	27 28 39.50259	82 42 12.39208	1.835
M005	3045267.0	329445.2	-23.520	27 31 13.52709	82 43 36.87670	0.749
M010	3038559.9	332318.9	-23.299	27 27 36.92838	82 41 48.82311	0.968
M016	3039558.4	333075.6	-23.225	27 28 09.70141	82 41 21.75798	1.059
M106	3046346.7	328274.9	-22.594	27 31 48.07050	82 44 20.06980	1.663
M115	3043636.1	330824.1	-23.519	27 30 21.16518	82 42 45.81201	0.760
M118	3042651.5	331321.7	-22.757	27 29 49.40501	82 42 27.18718	1.524
M120	3039547.8	332040.9	-23.061	27 28 08.89804	82 41 59.43746	1.210
M126	3035334.5	333708.4	-23.599	27 25 52.75779	82 40 56.62836	0.661
M129	3033363.8	335871.3	-20.409	27 24 49.68079	82 39 36.92058	3.859
M130	3032375.6	336711.6	-22.482	27 24 17.93986	82 39 05.85436	1.786
M131	3031366.9	337286.8	-22.953	27 23 45.41713	82 38 44.43117	1.312
M132	3040712.5	331625.4	-22.750	27 28 46.54774	82 42 15.15403	1.523
M341	3036904.1	332959.5	-22.916	27 26 43.41796	82 41 24.67103	1.347
M356	3033517.6	335571.8	-22.119	27 24 54.54511	82 39 47.89949	2.147
M709	3045619.4	328672.6	-22.113	27 31 24.62474	82 44 05.20730	2.147
M721	3042653.0	330730.7	-22.091	27 29 49.18618	82 42 48.71907	2.182
M731	3039657.8	331969.9	-22.023	27 28 12.44003	82 42 02.08041	2.248
M745	3035816.5	333043.6	-22.858	27 26 08.12392	82 41 21.07058	1.398
P005	3105729.5	319872.5	-23.982	28 03 53.05291	82 49 58.53845	0.792
P007	3084785.4	317861.1	-22.885	27 52 31.77280	82 51 00.57094	1.500
P014	3104831.7	320827.5	-23.012	28 03 24.35776	82 49 23.07789	1.759
P017	3096033.3	320063.8	-21.977	27 58 38.19951	82 49 46.20760	2.624
P028	3087553.5	318121.4	-22.993	27 54 01.81240	82 50 52.58535	1.441
P032	3080782.4	318981.8	-23.138	27 50 22.29554	82 50 17.41309	1.200
P033	3080499.8	319195.4	-22.951	27 50 13.21780	82 50 09.45270	1.386
P036	3078691.5	320138.4	-23.240	27 49 14.93826	82 49 34.01043	1.083
P040	3076079.6	322946.3	-23.215	27 47 51.44199	82 47 50.02642	1.113
P043	3074748.7	324271.4	-23.147	27 47 08.83676	82 47 00.91692	1.183
P053	3068148.7	328290.4	-22.821	27 43 36.31289	82 44 30.70751	1.509
P056	3066112.2	328684.4	-22.255	27 42 30.34009	82 44 15.27862	2.069
P071	3069551.8	326960.4	-22.645	27 44 21.27982	82 45 19.99087	1.677
P073	3068965.6	327878.0	-22.757	27 44 02.66020	82 44 46.18607	1.573
P075	3102201.2	320955.6	-23.341	28 01 58.97689	82 49 16.94893	1.382
P076	3056383.9	328764.9	-22.767	27 37 14.35533	82 44 07.34334	1.522
P078	3086085.9	317868.9	-22.984	27 53 14.01975	82 51 01.00650	1.423
P084	3075471.5	323648.4	-23.316	27 47 32.02022	82 47 24.05723	1.014
P089	3071300.3	326137.9	-22.775	27 45 17.69619	82 45 50.93481	1.549
P096	3090797.2	318696.7	-22.517	27 55 47.45703	82 50 33.33495	1.979
P102	3058105.8	332314.4	-22.355	27 38 11.89375	82 41 58.75485	1.991
P105	3098441.4	320682.4	-23.805	27 59 56.71954	82 49 24.88900	0.847
P106	3096810.6	320176.4	-21.133	27 59 03.50483	82 49 42.51177	3.483
P109	3093930.9	320557.9	-18.964	27 57 30.15008	82 49 26.98120	5.608
P126	3085986.4	318812.4	-23.490	27 53 11.24726	82 50 26.45813	0.928
P127	3059274.5	330670.8	-23.090	27 38 49.12028	82 42 59.30087	1.235
P128	3056053.4	329655.4	-23.206	27 37 04.02281	82 43 34.70013	1.096

P334	3099125.6	320347.1	-22.537	28 00 18.78140	82 49 37.53517	2.122
P350	3094626.7	320720.8	-23.101	27 57 52.83161	82 49 21.39953	1.485
P430	3073305.5	325161.7	-22.865	27 46 22.37570	82 46 27.63868	1.463
P494	3093576.3	320258.3	-23.030	27 57 18.48725	82 49 37.74527	1.533
P495	3090478.2	318696.6	-22.725	27 55 37.09416	82 50 33.16354	1.766
P751	3094412.0	319986.3	-22.523	27 57 45.50153	82 49 48.15192	2.050
P761	3091570.9	318931.3	-21.963	27 56 12.70111	82 50 25.18470	2.549
P775	3087505.4	317997.2	-21.910	27 54 00.18924	82 50 57.09929	2.522
P784	3084818.9	317781.0	-21.442	27 52 32.82157	82 51 03.51997	2.943
P796	3081193.0	318664.8	-21.850	27 50 35.47646	82 50 29.22257	2.490
P804	3078895.1	319728.5	-20.483	27 49 21.35427	82 49 49.09853	3.838
P818	3076049.4	322911.4	-22.778	27 47 50.44310	82 47 51.28596	1.549
P826	3074153.0	324267.1	-22.846	27 46 49.48592	82 47 00.75761	1.479
P840	3070178.9	326500.5	-21.551	27 44 41.43472	82 45 37.11096	2.769
P845	3069146.5	327397.0	-22.067	27 44 08.31632	82 45 03.84197	2.258
P852	3067574.0	328313.1	-21.824	27 43 17.65494	82 44 29.58194	2.503
S002	2999668.5	354786.2	-23.271	27 06 42.61247	82 27 53.93823	0.662
S103	2997193.8	355521.8	-22.496	27 05 22.48485	82 27 26.18844	1.406
S104	2996228.6	355878.5	-21.547	27 04 51.25591	82 27 12.83372	2.343
S107	2993967.6	356673.6	-21.299	27 03 38.09015	82 26 43.03033	2.566
S112	3018759.4	345044.7	-23.284	27 16 59.06285	82 33 56.28944	0.902
S114	3018206.5	345175.3	-23.171	27 16 41.15075	82 33 51.29011	1.008
S115	3017650.1	345161.7	-23.192	27 16 23.06860	82 33 51.53231	0.979
S118	3015774.5	347832.0	-22.438	27 15 23.20631	82 32 13.60002	1.722
S121	3014199.7	348300.3	-23.423	27 14 32.22943	82 31 55.87639	0.715
S122	3014086.1	348264.9	-22.430	27 14 28.52456	82 31 57.11283	1.706
S123	3012131.2	349531.2	-21.748	27 13 25.51022	82 31 10.22072	2.362
S127	2985861.3	361112.3	-23.317	26 59 16.32099	82 23 58.67066	0.474
S133	3021742.0	344280.3	-23.151	27 18 35.65203	82 34 25.45234	1.072
S134	3011669.6	349954.7	-22.303	27 13 10.67724	82 30 54.62535	1.802
S136	3030370.1	337816.1	-21.467	27 23 13.25899	82 38 24.68764	2.794
S140	3030641.0	337748.8	-22.428	27 23 22.03021	82 38 27.26703	1.835
S141	3028148.3	339159.7	-22.822	27 22 01.65174	82 37 34.72864	1.431
S143	3024686.4	343045.8	-22.947	27 20 10.80370	82 35 11.71535	1.304
S144	3024281.5	342756.6	-23.279	27 19 57.52935	82 35 22.04581	0.964
S145	3023133.6	343670.5	-21.463	27 19 20.61375	82 34 48.27282	2.774
S147	3022437.5	343574.7	-22.884	27 18 57.95944	82 34 51.43549	1.343
S148	3021192.7	344496.7	-23.454	27 18 17.89410	82 34 17.32844	0.763
S149	3016253.5	347582.6	-22.547	27 15 38.67027	82 32 22.88194	1.618
S150	3010857.2	350214.0	-23.337	27 12 44.38552	82 30 44.84250	0.755
S151	3010199.7	350415.2	-23.002	27 12 23.10189	82 30 37.24420	1.080
S152	3010177.8	350470.6	-23.372	27 12 22.41115	82 30 35.22220	0.710
S153	3008900.5	350939.4	-21.931	27 11 41.09580	82 30 17.62790	2.132
S156	3007396.2	351505.9	-21.468	27 10 52.44001	82 29 56.39120	2.572
S158	3005620.7	352354.0	-20.848	27 09 55.08007	82 29 24.81183	3.167
S160	3003226.1	353586.6	-20.278	27 08 37.74775	82 28 39.01445	3.704
S162	3000966.6	354321.4	-22.469	27 07 24.61602	82 28 11.36402	1.481
S163	3001070.2	354347.6	-18.855	27 07 27.99216	82 28 10.45791	5.097

S164	2998548.3	355302.9	-19.979	27 06 06.41137	82 27 34.70352	3.940
S165	2993375.8	356991.5	-21.492	27 03 18.97903	82 26 31.24660	2.366
S170	2990467.5	358703.1	-21.455	27 01 45.11462	82 25 27.93654	2.373
S172	2988301.2	359897.8	-19.517	27 00 35.15976	82 24 43.71063	4.291
S173	2986348.6	360834.9	-22.519	26 59 32.05346	82 24 08.92868	1.275
S318	3026344.3	340502.4	-22.522	27 21 03.60819	82 36 45.01954	1.724
S361	3014804.1	347994.2	-22.669	27 14 51.74408	82 32 07.27082	1.477
S700	3021351.9	344575.1	-23.657	27 18 23.10017	82 34 14.55267	0.563
S704	3029771.8	338073.4	-21.866	27 22 53.93094	82 38 15.03549	2.392
S722	3025556.1	341263.3	-21.116	27 20 38.32057	82 36 16.96886	3.129
S735	3021972.0	343940.4	-22.505	27 18 42.98396	82 34 37.92168	1.719
S747	3017545.2	345133.5	-22.435	27 16 19.64987	82 33 52.50916	1.734
S785	3008412.3	351135.7	-22.613	27 11 25.30907	82 30 10.28246	1.443
S793	3005996.3	352090.7	-22.429	27 10 07.18115	82 29 34.53833	1.591
S804	3002987.3	353643.8	-21.067	27 08 30.01128	82 28 36.83511	2.911
S831	2995340.1	356091.7	-18.064	27 04 22.46664	82 27 04.72488	5.816
S837	2993504.4	356902.4	-20.723	27 03 23.12440	82 26 34.53553	3.137
S876	2983101.0	362525.2	-20.708	26 57 47.13599	82 23 06.32768	3.071
S901	3000921.3	354255.5	-21.156	27 07 23.11643	82 28 13.74067	2.793
X001	2906695.8	417241.2	-22.037	26 16 39.48622	81 49 43.98888	1.676
X012	2886931.0	419800.4	-21.651	26 05 57.58644	81 48 07.32022	1.739

Table 4 – Adjusted Elevations for Tier-2 stations – GEOID03.

CONCLUSIONS

Station 1001 appeared in two adjustments as a different point, this name discrepancy should be fixed.

C322, M005, M106 appeared in more than one adjustment; their final adjusted ellipsoid height was averaged from the values obtained in the individual adjustments (values were within 15 mm of each other).

Four Tier-1 stations didn't show up in any Tier-2 adjustment: C002, L011, L118, 0140.

All Ashtech o-files provided to the UF contained only Ln fixed solutions (narrow lane phase combination solution). Overall, these solutions fit together very well, but in the future it is recommended that the FDEP provide o-files with BOTH the fixed L1 solution as well as the Ln solution: a comparison of these types of solutions could then be done.

Full software-generated HTML adjustment reports are included as an appendix A.

APPENDIX A HTML ADJUSTMENT REPORTS

Tier-2_A:

Statistics	
Adjustment in the national system.	
System: UTM 17 (Datum: WGS_84, Projection: UTM_WGS)	
Geoidmodel	None
Number of baselines	173
Number of terrestrial measurements	0
Number of control points in national system	7
Number of adjusted points	53
Confidence level	2 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	1.185
Number of iterations	4

Adjusted Transformation Parameters WGS84->National:	
Scale	1.000000891 +- 0.000000427
Rotation X	-0.0615 arcsec +- 0.0800 arcsec
Rotation Y	0.7490 arcsec +- 0.1290 arcsec
Rotation Z	1.5812 arcsec +- 0.2312 arcsec
Translation X	53.041 m
Translation Y	11.383 m
Translation Z	-3.578 m
The translation has been calculated using the WGS84 coordinates of point P852.	

1. Baselines Input in WGS84 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
1001-P007	-608.999	1095.134	2197.972	6.8	6.8	13.8
1001-P126	245.968	1775.702	3271.758	7.6	7.6	15.6
1001-P796	450.408	-458.822	-966.513	5.8	5.8	11.7
1001-P032	794.502	-605.429	-1325.887	6.2	6.2	12.5
1001-P784	-690.757	1098.806	2227.187	6.8	6.8	13.9
M005-P102	1913.505	6254.185	11415.125	14.2	14.2	29.7

M005-M106	-1237.814	336.686	943.360	6.1	6.1	12.4
M005-P127	199.653	6571.473	12429.893	14.8	14.8	31.1
M005-P011	580.901	5398.131	10114.713	13.0	13.0	27.2
M005-M017	-606.738	544.271	1183.032	6.0	6.0	12.2
M017-P011	1187.632	4853.859	8931.677	12.2	12.2	25.4
M017-P102	2520.238	5709.897	10232.093	13.4	13.4	28.0
M017-M106	-631.076	-207.585	-239.672	5.5	5.5	11.1
M017-P127	806.385	6027.199	11246.854	13.9	13.9	29.2
M106-P011	1818.714	5061.446	9171.354	12.4	12.4	25.9
M106-P102	3151.319	5917.493	10471.765	13.7	13.7	28.7
M106-P127	1437.470	6234.793	11486.531	14.2	14.2	29.7
P001-P017	-60.083	30.277	72.724	5.1	5.1	10.1
P001-P105	376.051	1230.058	2206.255	6.8	6.8	13.8
P001-P106	-5.404	404.763	761.035	5.6	5.6	11.3
P001-P109	584.281	-881.440	-1775.979	6.4	6.4	13.1
P001-P334	-6.445	1502.150	2806.476	7.2	7.2	14.8
P001-P350	694.290	-533.944	-1161.222	6.0	6.0	12.2
P001-P494	312.936	-1081.612	-2095.006	6.7	6.7	13.6
P001-P751	-17.902	-730.738	-1360.249	6.1	6.1	12.3
P001-P761	-855.242	-2185.944	-3883.438	8.2	8.2	16.8
P005-P075	1333.184	-1497.062	-3098.882	7.6	7.6	15.5
P005-P014	1012.739	-292.222	-779.043	5.9	5.9	12.0
P005-P105	1338.797	-3277.670	-6421.546	10.1	10.1	21.0
P005-P129	2180.108	-16.189	-532.000	6.6	6.6	13.4
P005-P334	956.299	-3005.581	-5821.321	9.6	9.6	19.9
P007-P032	1403.501	-1700.560	-3523.861	7.9	7.9	16.2
P011-P076	-2060.228	-405.211	-268.908	6.5	6.5	13.2
P011-P102	1332.605	856.040	1300.420	6.4	6.4	13.1
P011-P127	-381.242	1173.341	2315.185	6.8	6.8	13.9
P011-P128	-1153.803	-437.832	-550.921	5.9	5.9	12.0
P011-P466	-2712.391	2757.416	5876.980	9.9	9.9	20.6
P014-P075	320.445	-1204.840	-2319.839	6.8	6.8	14.0
P014-P105	326.058	-2985.448	-5642.503	9.5	9.5	19.6
P014-P334	-56.440	-2713.359	-5042.279	9.0	9.0	18.6
P014-P129	1167.369	276.032	247.042	5.9	5.9	11.8
P017-P105	436.134	1199.778	2133.532	6.7	6.7	13.7
P017-P106	54.678	374.486	688.311	5.5	5.5	11.2
P017-P334	53.637	1471.872	2733.752	7.2	7.2	14.7
P017-P350	754.370	-564.234	-1233.948	6.1	6.1	12.3
P028-P078	-142.839	-711.590	-1300.249	6.0	6.0	12.2
P028-P126	799.653	-633.061	-1375.922	6.2	6.2	12.6
P028-P495	355.951	1428.289	2591.904	7.1	7.1	14.5

P028-P761	508.493	1964.227	3560.655	7.9	7.9	16.1
P028-P775	-119.455	-39.516	-43.652	5.1	5.1	10.2
P028-P096	332.708	1575.768	2873.847	7.3	7.3	14.9
P028-P494	1676.665	3068.576	5349.084	9.5	9.5	19.6
P028-P784	-137.073	-1309.952	-2420.495	6.9	6.9	14.1
P032-P033	232.414	-102.472	-247.009	5.2	5.2	10.5
P032-P036	1299.217	-812.117	-1833.641	6.7	6.7	13.6
P032-P040	4272.991	-1645.634	-4106.997	9.3	9.3	19.2
P032-P126	-548.534	2381.129	4597.644	8.6	8.6	17.8
P032-P796	-344.094	146.602	359.376	5.4	5.4	10.8
P032-P804	878.319	-774.636	-1657.683	6.4	6.4	13.0
P032-P784	-1485.264	1704.240	3553.071	7.9	7.9	16.3
P033-P036	1066.801	-709.641	-1586.633	6.4	6.4	13.1
P033-P040	4040.576	-1543.152	-3859.990	9.1	9.1	18.7
P033-P796	-576.509	249.078	606.383	5.6	5.6	11.3
P033-P804	645.906	-672.158	-1410.676	6.2	6.2	12.5
P036-P040	2973.777	-833.515	-2273.353	7.7	7.7	15.8
P036-P796	-1643.310	958.716	2193.017	7.0	7.0	14.4
P036-P804	-420.896	37.479	175.958	5.3	5.3	10.7
P040-P084	740.230	-187.307	-528.917	5.7	5.7	11.4
P040-P796	-4617.085	1792.235	4466.373	9.7	9.7	20.0
P040-P804	-3394.671	870.987	2449.320	8.0	8.0	16.4
P040-P826	1449.727	-713.159	-1687.022	6.6	6.6	13.5
P040-P043	1410.492	-437.988	-1160.170	6.3	6.3	12.8
P040-P818	-32.360	-18.931	-26.998	5.0	5.0	10.1
P043-P084	-670.264	250.680	631.257	5.7	5.7	11.4
P043-P089	2101.459	-1340.634	-3026.929	7.7	7.7	15.9
P043-P430	987.684	-546.989	-1265.211	6.2	6.2	12.5
P043-P804	-4805.164	1308.986	3609.481	9.3	9.3	19.2
P043-P818	-1442.850	419.054	1133.176	6.3	6.3	12.8
P043-P826	39.239	-275.168	-526.851	5.4	5.4	10.9
P043-P840	2542.626	-1809.583	-4014.179	8.6	8.6	17.6
P043-P070	181.203	-222.496	-460.493	5.4	5.4	10.8
P053-P056	538.699	-884.043	-1797.469	6.5	6.5	13.1
P053-P071	-1420.340	468.432	1225.244	6.4	6.4	12.9
P053-P089	-2362.930	1163.794	2762.104	7.7	7.7	15.7
P053-P840	-1921.759	694.843	1774.849	6.9	6.9	14.1
P053-P845	-958.087	339.476	872.325	5.9	5.9	12.0
P053-P852	64.453	-262.023	-507.926	5.4	5.4	10.9
P053-P073	-468.225	320.746	717.902	5.6	5.6	11.4
P053-P127	3004.326	-3757.242	-7828.182	11.4	11.4	23.8
P056-P852	-474.243	622.020	1289.542	6.1	6.1	12.3

P056-P073	-1006.915	1204.787	2515.374	7.1	7.1	14.4
P056-P127	2465.641	-2873.218	-6030.714	10.0	10.0	20.7
P070-P089	1920.255	-1118.141	-2566.434	7.4	7.4	15.1
P070-P430	806.480	-324.493	-804.719	5.8	5.8	11.8
P070-P826	-141.962	-52.676	-66.354	5.1	5.1	10.2
P070-P840	2361.423	-1587.086	-3553.689	8.2	8.2	16.8
P071-P089	-942.589	695.368	1536.858	6.4	6.4	12.9
P071-P840	-501.418	226.418	549.603	5.5	5.5	11.2
P071-P073	952.116	-147.676	-507.348	5.8	5.8	11.6
P071-P845	462.254	-128.950	-352.920	5.4	5.4	10.9
P073-P089	-1894.705	843.051	2044.202	7.0	7.0	14.4
P073-P840	-1453.534	374.098	1056.948	6.3	6.3	12.8
P073-P845	-489.863	18.728	154.430	5.4	5.4	10.8
P073-P852	532.675	-582.769	-1225.831	6.0	6.0	12.2
P073-P127	3472.546	-4078.004	-8546.102	12.1	12.1	25.1
P075-P105	5.613	-1780.610	-3322.664	7.6	7.6	15.7
P075-P129	846.923	1480.873	2566.881	7.2	7.2	14.6
P075-P334	-376.885	-1508.520	-2722.439	7.2	7.2	14.7
P076-P102	3392.837	1261.248	1569.337	7.8	7.8	15.9
P076-P127	1678.990	1578.548	2584.104	7.4	7.4	15.2
P076-P128	906.426	-32.621	-282.014	5.7	5.7	11.4
P076-P466	-652.162	3162.629	6145.888	9.9	9.9	20.4
P078-P125	2156.417	1851.379	2959.939	7.9	7.9	16.2
P078-P126	942.493	78.530	-75.672	5.7	5.7	11.4
P078-P775	23.386	672.079	1256.596	6.0	6.0	12.1
P078-P784	5.767	-598.359	-1120.245	5.9	5.9	11.9
P084-P804	-4134.900	1058.307	2978.224	8.6	8.6	17.8
P084-P826	709.500	-525.850	-1158.104	6.0	6.0	12.2
P084-P818	-772.587	168.375	501.919	5.7	5.7	11.4
P089-P826	-2062.219	1065.468	2500.074	7.4	7.4	15.1
P089-P430	-1113.774	793.647	1761.715	6.6	6.6	13.3
P089-P840	441.171	-468.954	-987.254	5.8	5.8	11.8
P089-P845	1404.842	-824.322	-1889.778	6.7	6.7	13.7
P096-P494	1343.957	1492.806	2475.237	7.2	7.2	14.8
P096-P495	23.242	-147.477	-281.943	5.2	5.2	10.5
P096-P761	175.785	388.459	686.808	5.6	5.6	11.2
P096-P125	1680.858	-436.004	-1214.146	6.5	6.5	13.2
P102-P128	-2486.411	-1293.868	-1851.349	7.4	7.4	15.0
P102-P127	-1713.848	317.298	1014.768	6.4	6.4	13.0
P102-P466	-4044.999	1901.382	4576.551	9.5	9.5	19.6
P105-P106	-381.456	-825.292	-1445.223	6.2	6.2	12.6
P105-P334	-382.497	272.090	600.224	5.5	5.5	11.1

P105-P129	841.312	3261.482	5889.545	9.7	9.7	20.2
P105-P350	318.238	-1764.008	-3367.483	7.7	7.7	15.7
P106-P334	-1.041	1097.387	2045.442	6.6	6.6	13.5
P106-P350	699.694	-938.715	-1922.259	6.6	6.6	13.4
P109-P761	-1439.519	-1304.503	-2107.458	7.0	7.0	14.3
P109-P350	110.010	347.492	614.759	5.5	5.5	11.1
P109-P494	-271.342	-200.179	-319.023	5.3	5.3	10.7
P109-P751	-602.180	150.694	415.735	5.5	5.5	11.1
P125-P126	-1213.921	-1772.847	-3035.619	7.6	7.6	15.6
P125-P494	-336.901	1928.809	3689.383	7.9	7.9	16.3
P125-P495	-1657.615	288.526	932.203	6.3	6.3	12.9
P125-P761	-1505.073	824.463	1900.954	6.8	6.8	13.8
P125-P775	-2133.028	-1179.293	-1703.347	7.1	7.1	14.5
P125-P784	-2150.653	-2449.734	-4080.193	8.7	8.7	17.8
P126-P775	-919.108	593.552	1332.273	6.2	6.2	12.6
P126-P784	-936.730	-676.887	-1044.573	6.1	6.1	12.3
P126-P796	204.441	-2234.523	-4238.271	8.4	8.4	17.2
P127-P128	-772.564	-1611.168	-2866.117	7.4	7.4	15.1
P127-P852	-2939.872	3495.223	7320.253	11.0	11.0	22.9
P127-P466	-2331.151	1584.087	3561.782	8.2	8.2	16.8
P128-P466	-1558.589	3195.254	6427.900	10.1	10.1	21.0
P129-P334	-1223.809	-2989.392	-5289.321	9.3	9.3	19.3
P334-P350	700.735	-2036.100	-3967.702	8.2	8.2	16.8
P350-P494	-381.352	-547.671	-933.781	5.8	5.8	11.7
P350-P751	-712.188	-196.799	-199.024	5.5	5.5	11.1
P350-P761	-1549.529	-1651.997	-2722.217	7.5	7.5	15.3
P430-P826	-948.445	271.820	738.359	5.9	5.9	11.8
P430-P840	1554.942	-1262.595	-2748.968	7.4	7.4	15.1
P494-P495	-1320.715	-1640.284	-2757.180	7.4	7.4	15.2
P494-P761	-1168.172	-1104.345	-1788.430	6.7	6.7	13.6
P494-P751	-330.835	350.869	734.759	5.6	5.6	11.3
P495-P761	152.542	535.939	968.750	5.8	5.8	11.7
P751-P761	-837.341	-1455.200	-2523.193	7.1	7.1	14.5
P775-P784	-17.623	-1270.437	-2376.847	6.9	6.9	14.0
P784-P796	1141.171	-1557.636	-3193.696	7.6	7.6	15.6
P796-P804	1222.414	-921.237	-2017.059	6.8	6.8	13.8
P804-P826	4844.400	-1584.157	-4136.328	9.6	9.6	19.8
P804-P818	3362.313	-889.936	-2476.304	8.0	8.0	16.4
P818-P826	1482.087	-694.221	-1660.025	6.6	6.6	13.5
P826-P840	2503.387	-1534.415	-3487.328	8.2	8.2	16.8
P840-P845	963.671	-355.368	-902.524	6.0	6.0	12.1

Baselines which were rejected by the statistical test are marked.

2. National Control Points Input (Plane Coord. and Std.Dev.)

Point	N [m]	E [m]	ell.H [m]	sN [mm]	sE [mm]	sH [mm]
M017	3046608.393	328930.870	-23.643	0.0	0.0	0.0
P001	3095950.605	320118.375	-22.935	0.0	0.0	0.0
P011	3056658.307	330863.831	-23.035	0.0	0.0	0.0
P070	3074225.648	324415.637	-22.377	0.0	0.0	0.0
P125	3089399.639	320289.324	-23.591	0.0	0.0	0.0
P129	3105092.025	322024.234	-19.675	0.0	0.0	0.0
P466	3063324.672	328615.479	-22.443	0.0	0.0	0.0

Coordinates which were not considered in the adjustment are in brackets.

3. Adjusted Baselines in WGS84 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
1001-P007	-608.999	1095.134	2197.973	6.4	6.4	13.0
1001-P126	245.969	1775.694	3271.759	4.8	4.8	9.8
1001-P796	450.409	-458.822	-966.512	4.4	4.4	8.8
1001-P032	794.503	-605.425	-1325.887	4.3	4.3	8.7
1001-P784	-690.760	1098.806	2227.186	4.7	4.7	9.5
M005-P102	1913.505	6254.166	11415.126	6.1	6.3	12.6
M005-M106	-1237.814	336.686	943.360	5.3	5.3	10.8
M005-P127	199.656	6571.466	12429.893	6.2	6.2	12.6
M005-P011	580.904	5398.118	10114.709	5.2	5.7	10.4
M005-M017	-606.739	544.278	1183.032	5.0	5.0	10.1
M017-P011	1187.643	4853.840	8931.676	2.7	4.2	5.0
M017-P102	2520.243	5709.889	10232.093	4.8	5.2	9.6
M017-M106	-631.075	-207.591	-239.673	4.7	4.8	9.6
M017-P127	806.395	6027.188	11246.860	4.9	5.2	9.8
M106-P011	1818.717	5061.432	9171.349	5.0	5.5	10.0
M106-P102	3151.318	5917.480	10471.766	6.0	6.1	12.2
M106-P127	1437.470	6234.780	11486.533	6.0	6.1	12.3
P001-P017	-60.081	30.282	72.724	3.6	3.7	7.3
P001-P105	376.054	1230.064	2206.254	3.5	3.7	7.1
P001-P106	-5.403	404.768	761.034	3.7	3.8	7.5
P001-P109	584.280	-881.441	-1775.980	3.7	3.7	7.5
P001-P334	-6.443	1502.156	2806.476	3.6	3.7	7.3
P001-P350	694.290	-533.948	-1161.223	3.1	3.1	6.2
P001-P494	312.935	-1081.616	-2095.004	3.3	3.3	6.6

P001-P751	-17.900	-730.746	-1360.246	3.7	3.7	7.5
P001-P761	-855.239	-2185.955	-3883.435	3.4	3.4	6.9
P005-P075	1333.184	-1497.063	-3098.881	5.1	5.1	10.4
P005-P014	1012.739	-292.222	-779.043	4.8	4.8	9.7
P005-P105	1338.794	-3277.677	-6421.543	5.0	5.1	10.2
P005-P129	2180.110	-16.184	-532.003	4.6	4.7	9.4
P005-P334	956.298	-3005.586	-5821.320	5.0	5.1	10.2
P007-P032	1403.502	-1700.559	-3523.860	6.6	6.6	13.4
P011-P076	-2060.235	-405.203	-268.917	4.3	4.4	8.7
P011-P102	1332.601	856.048	1300.417	4.0	4.1	8.1
P011-P127	-381.247	1173.348	2315.184	3.8	4.1	7.6
P011-P128	-1153.809	-437.824	-550.930	4.2	4.3	8.4
P011-P466	-2712.408	2757.437	5876.957	1.8	2.3	3.4
P014-P075	320.445	-1204.841	-2319.839	4.9	4.9	9.9
P014-P105	326.055	-2985.455	-5642.500	4.8	4.9	9.8
P014-P334	-56.441	-2713.364	-5042.278	4.8	4.9	9.7
P014-P129	1167.371	276.038	247.040	4.4	4.5	8.9
P017-P105	436.135	1199.782	2133.530	4.1	4.1	8.3
P017-P106	54.678	374.485	688.310	4.1	4.1	8.2
P017-P334	53.638	1471.873	2733.753	4.2	4.2	8.5
P017-P350	754.371	-564.230	-1233.947	4.0	4.0	8.1
P028-P078	-142.842	-711.596	-1300.247	4.1	4.1	8.3
P028-P126	799.652	-633.064	-1375.921	4.0	4.0	8.1
P028-P495	355.954	1428.294	2591.902	4.5	4.5	9.2
P028-P761	508.496	1964.237	3560.650	4.3	4.3	8.8
P028-P775	-119.456	-39.517	-43.650	3.9	3.9	8.0
P028-P096	332.711	1575.772	2873.845	4.5	4.5	9.2
P028-P494	1676.670	3068.576	5349.081	4.5	4.5	9.1
P028-P784	-137.077	-1309.952	-2420.494	4.1	4.1	8.4
P032-P033	232.414	-102.472	-247.008	3.9	4.0	8.0
P032-P036	1299.215	-812.112	-1833.642	4.2	4.2	8.6
P032-P040	4272.991	-1645.623	-4106.997	4.5	4.5	9.1
P032-P126	-548.534	2381.119	4597.646	4.6	4.6	9.3
P032-P796	-344.094	146.603	359.375	3.6	3.6	7.2
P032-P804	878.320	-774.630	-1657.685	3.9	4.0	8.0
P032-P784	-1485.262	1704.231	3553.073	4.5	4.5	9.1
P033-P036	1066.801	-709.640	-1586.634	4.4	4.4	8.9
P033-P040	4040.577	-1543.151	-3859.988	4.7	4.7	9.5
P033-P796	-576.508	249.075	606.384	4.0	4.0	8.2
P033-P804	645.905	-672.157	-1410.676	4.1	4.1	8.4
P036-P040	2973.776	-833.511	-2273.354	4.6	4.7	9.5
P036-P796	-1643.309	958.715	2193.018	4.3	4.3	8.8

P036-P804	-420.896	37.482	175.958	4.1	4.1	8.3
P040-P084	740.228	-187.306	-528.915	4.0	4.0	8.0
P040-P796	-4617.085	1792.226	4466.372	4.5	4.5	9.2
P040-P804	-3394.672	870.993	2449.312	4.0	4.0	8.2
P040-P826	1449.729	-713.153	-1687.021	3.9	3.9	7.9
P040-P043	1410.490	-437.984	-1160.171	3.8	3.9	7.8
P040-P818	-32.359	-18.933	-26.996	3.9	3.9	7.8
P043-P084	-670.262	250.678	631.256	4.0	4.0	8.0
P043-P089	2101.457	-1340.632	-3026.926	4.2	4.2	8.6
P043-P430	987.683	-546.987	-1265.211	4.1	4.1	8.3
P043-P804	-4805.162	1308.978	3609.483	4.4	4.5	9.0
P043-P818	-1442.850	419.052	1133.175	4.0	4.0	8.2
P043-P826	39.238	-275.169	-526.850	3.3	3.3	6.8
P043-P840	2542.627	-1809.584	-4014.180	4.4	4.4	8.9
P043-P070	181.202	-222.488	-460.494	3.6	3.6	7.2
P053-P056	538.694	-884.042	-1797.471	4.7	4.8	9.6
P053-P071	-1420.340	468.427	1225.247	4.0	4.0	8.1
P053-P089	-2362.929	1163.797	2762.104	4.1	4.1	8.3
P053-P840	-1921.759	694.846	1774.850	3.9	4.0	8.0
P053-P845	-958.087	339.476	872.327	4.0	4.0	8.0
P053-P852	64.453	-262.023	-507.928	4.4	4.4	8.8
P053-P073	-468.224	320.748	717.901	3.6	3.6	7.2
P053-P127	3004.328	-3757.256	-7828.186	5.7	6.0	11.5
P056-P852	-474.242	622.018	1289.542	4.9	4.9	10.0
P056-P073	-1006.918	1204.789	2515.372	4.9	4.9	9.9
P056-P127	2465.634	-2873.214	-6030.716	6.3	6.5	12.8
P070-P089	1920.255	-1118.144	-2566.432	4.0	4.0	8.1
P070-P430	806.481	-324.498	-804.718	4.0	4.0	8.1
P070-P826	-141.964	-52.681	-66.356	3.5	3.5	7.1
P070-P840	2361.425	-1587.096	-3553.686	4.1	4.1	8.3
P071-P089	-942.589	695.370	1536.857	4.1	4.1	8.2
P071-P840	-501.419	226.419	549.603	3.9	3.9	7.8
P071-P073	952.117	-147.680	-507.346	3.9	3.9	7.8
P071-P845	462.253	-128.951	-352.920	3.9	3.9	8.0
P073-P089	-1894.705	843.050	2044.203	4.0	4.0	8.1
P073-P840	-1453.535	374.098	1056.949	3.8	3.8	7.7
P073-P845	-489.863	18.729	154.426	3.8	3.8	7.7
P073-P852	532.676	-582.771	-1225.830	4.5	4.5	9.1
P073-P127	3472.552	-4078.004	-8546.088	5.7	6.1	11.5
P075-P105	5.610	-1780.614	-3322.661	4.7	4.8	9.7
P075-P129	846.926	1480.878	2566.879	4.6	4.7	9.3
P075-P334	-376.887	-1508.523	-2722.439	4.7	4.8	9.6

P076-P102	3392.836	1261.251	1569.334	4.8	4.9	9.9
P076-P127	1678.988	1578.551	2584.101	4.7	4.8	9.6
P076-P128	906.426	-32.621	-282.013	4.6	4.6	9.3
P076-P466	-652.173	3162.640	6145.874	4.4	4.4	8.9
P078-P125	2156.413	1851.362	2959.947	4.4	4.4	8.9
P078-P126	942.494	78.532	-75.674	4.0	4.0	8.2
P078-P775	23.386	672.079	1256.597	4.2	4.2	8.5
P078-P784	5.765	-598.356	-1120.247	4.1	4.1	8.4
P084-P804	-4134.900	1058.300	2978.227	4.6	4.6	9.4
P084-P826	709.501	-525.847	-1158.106	4.0	4.0	8.1
P084-P818	-772.588	168.374	501.919	4.1	4.1	8.3
P089-P826	-2062.218	1065.464	2500.076	4.2	4.2	8.5
P089-P430	-1113.773	793.646	1761.715	4.3	4.3	8.7
P089-P840	441.170	-468.951	-987.254	3.6	3.6	7.2
P089-P845	1404.842	-824.321	-1889.777	4.1	4.1	8.3
P096-P494	1343.958	1492.804	2475.237	4.2	4.2	8.5
P096-P495	23.243	-147.478	-281.942	4.1	4.1	8.3
P096-P761	175.784	388.465	686.806	4.0	4.0	8.0
P096-P125	1680.860	-436.006	-1214.145	3.9	3.9	7.9
P102-P128	-2486.410	-1293.872	-1851.347	4.7	4.8	9.7
P102-P127	-1713.848	317.300	1014.767	4.5	4.5	9.1
P102-P466	-4045.009	1901.389	4576.540	4.2	4.2	8.5
P105-P106	-381.457	-825.297	-1445.220	4.1	4.1	8.3
P105-P334	-382.497	272.091	600.222	3.8	3.8	7.7
P105-P129	841.316	3261.493	5889.540	3.9	4.4	7.7
P105-P350	318.236	-1764.012	-3367.477	4.0	4.1	8.2
P106-P334	-1.040	1097.388	2045.442	4.2	4.2	8.5
P106-P350	699.693	-938.715	-1922.257	4.1	4.1	8.2
P109-P761	-1439.518	-1304.514	-2107.455	4.1	4.1	8.3
P109-P350	110.010	347.493	614.757	3.8	3.8	7.7
P109-P494	-271.344	-200.175	-319.024	3.8	3.8	7.6
P109-P751	-602.180	150.695	415.734	4.0	4.0	8.0
P125-P126	-1213.919	-1772.830	-3035.621	4.1	4.2	8.3
P125-P494	-336.902	1928.811	3689.382	3.3	3.4	6.7
P125-P495	-1657.617	288.528	932.202	3.9	3.9	8.0
P125-P761	-1505.076	824.471	1900.950	3.3	3.4	6.8
P125-P775	-2133.027	-1179.283	-1703.350	4.3	4.3	8.7
P125-P784	-2150.648	-2449.718	-4080.194	4.2	4.3	8.6
P126-P775	-919.108	593.547	1332.271	4.1	4.1	8.3
P126-P784	-936.729	-676.888	-1044.573	3.8	3.8	7.7
P126-P796	204.440	-2234.516	-4238.271	4.6	4.6	9.3
P127-P128	-772.561	-1611.172	-2866.114	4.6	4.7	9.4

P127-P852	-2939.876	3495.233	7320.258	6.2	6.4	12.5
P127-P466	-2331.160	1584.089	3561.773	3.7	3.7	7.5
P128-P466	-1558.599	3195.261	6427.887	4.3	4.3	8.7
P129-P334	-1223.813	-2989.401	-5289.318	3.9	4.3	7.8
P334-P350	700.733	-2036.103	-3967.700	4.1	4.2	8.4
P350-P494	-381.354	-547.668	-933.781	3.6	3.6	7.3
P350-P751	-712.189	-196.799	-199.023	3.8	3.8	7.7
P350-P761	-1549.528	-1652.007	-2722.212	3.9	3.9	7.8
P430-P826	-948.445	271.818	738.361	4.0	4.0	8.1
P430-P840	1554.943	-1262.597	-2748.969	4.4	4.4	9.0
P494-P495	-1320.716	-1640.283	-2757.179	4.2	4.2	8.6
P494-P761	-1168.174	-1104.340	-1788.431	3.6	3.6	7.3
P494-P751	-330.835	350.869	734.758	3.8	3.8	7.7
P495-P761	152.542	535.943	968.748	4.0	4.0	8.1
P751-P761	-837.339	-1455.209	-2523.189	4.1	4.1	8.3
P775-P784	-17.621	-1270.435	-2376.844	4.2	4.3	8.6
P784-P796	1141.169	-1557.628	-3193.698	4.5	4.5	9.1
P796-P804	1222.413	-921.233	-2017.060	4.0	4.0	8.2
P804-P826	4844.400	-1584.147	-4136.333	4.5	4.5	9.1
P804-P818	3362.312	-889.926	-2476.308	4.6	4.6	9.3
P818-P826	1482.088	-694.220	-1660.025	4.1	4.1	8.3
P826-P840	2503.388	-1534.415	-3487.330	4.3	4.3	8.7
P840-P845	963.672	-355.369	-902.523	3.9	3.9	7.9

4. Baseline Corrections (Corrections and Normalized Corr.)

Baseline	vN [mm]	vE [mm]	vH [mm]	vN/sN	vE/sE	vH/sH
1001-P007	0.6	0.4	-0.1	0.1	0.1	-0.0
1001-P126	-2.9	0.3	7.5	-0.3	0.1	1.2
1001-P796	0.6	0.5	-0.2	0.1	0.1	-0.0
1001-P032	1.2	1.1	-3.8	0.1	0.2	-0.7
1001-P784	-0.6	-2.6	-1.0	-0.1	-0.6	-0.2
M005-P102	-7.8	-2.6	16.3	-0.7	-0.4	2.0
M005-M106	0.0	-0.2	-0.1	0.0	-0.0	-0.0
M005-P127	-4.0	2.2	5.8	-0.3	0.3	0.7
M005-P011	-10.3	1.3	10.0	-1.1	0.3	1.4
M005-M017	4.2	0.0	-5.9	0.5	0.0	-0.9
M017-P011	-9.4	7.9	17.1	-2.2	2.9	3.4
M017-P102	-3.9	4.3	8.7	-0.4	0.9	1.3
M017-M106	-3.6	-0.1	6.0	-0.4	-0.0	1.0
M017-P127	-0.1	9.0	13.0	-0.0	1.8	2.0
M106-P011	-11.0	1.3	11.0	-1.2	0.3	1.6

M106-P102	-5.4	-1.9	11.7	-0.5	-0.3	1.5
M106-P127	-4.4	-1.6	12.7	-0.4	-0.3	1.6
P001-P017	2.1	2.0	-4.8	0.3	0.5	-1.0
P001-P105	1.8	3.6	-5.4	0.3	1.0	-1.1
P001-P106	1.8	1.5	-4.0	0.3	0.4	-0.8
P001-P109	-1.7	-1.7	0.4	-0.2	-0.5	0.1
P001-P334	2.6	2.4	-4.9	0.4	0.7	-1.0
P001-P350	-2.2	-1.0	2.7	-0.4	-0.3	0.7
P001-P494	0.4	-0.9	4.4	0.1	-0.3	1.0
P001-P751	-1.6	1.2	9.1	-0.2	0.3	1.9
P001-P761	-2.8	1.6	11.9	-0.5	0.5	2.7
P005-P075	-0.3	-0.4	1.0	-0.0	-0.1	0.2
P005-P014	0.1	0.0	-0.2	0.0	0.0	-0.0
P005-P105	-0.0	-3.1	7.2	-0.0	-0.6	1.1
P005-P129	0.5	2.7	-5.3	0.1	0.6	-0.9
P005-P334	-0.8	-2.4	4.0	-0.1	-0.5	0.6
P007-P032	0.9	0.5	-0.2	0.1	0.1	-0.0
P011-P076	-3.5	-6.0	-12.8	-0.4	-1.4	-2.3
P011-P102	1.4	-3.3	-9.4	0.2	-0.8	-1.8
P011-P127	2.7	-4.8	-7.5	0.4	-1.3	-1.4
P011-P128	-3.7	-5.2	-11.9	-0.5	-1.3	-2.2
P011-P466	-9.9	-14.5	-31.8	-3.4	-8.1	-11.1
P014-P075	0.0	-0.4	0.9	0.0	-0.1	0.1
P014-P105	-0.2	-3.0	7.2	-0.0	-0.6	1.1
P014-P334	-0.8	-2.3	4.7	-0.1	-0.5	0.8
P014-P129	0.6	2.4	-5.6	0.1	0.5	-1.0
P017-P105	-0.0	1.6	-3.9	-0.0	0.4	-0.7
P017-P106	-0.3	0.1	0.2	-0.0	0.0	0.0
P017-P334	0.9	0.9	-0.9	0.1	0.2	-0.2
P017-P350	2.8	0.8	-3.2	0.4	0.2	-0.6
P028-P078	-1.2	-3.5	5.8	-0.2	-0.8	1.1
P028-P126	-0.9	-1.8	3.3	-0.1	-0.4	0.6
P028-P495	-0.1	3.8	-4.6	-0.0	0.8	-0.8
P028-P761	0.4	3.5	-10.3	0.0	0.8	-1.8
P028-P775	1.5	-0.8	2.3	0.2	-0.2	0.5
P028-P096	0.0	3.6	-4.2	0.0	0.8	-0.7
P028-P494	-2.3	4.5	-0.9	-0.3	1.0	-0.2
P028-P784	0.7	-3.7	0.5	0.1	-0.9	0.1
P032-P033	0.4	0.3	0.7	0.1	0.1	0.1
P032-P036	1.2	-0.7	-5.5	0.2	-0.2	-1.0
P032-P040	5.3	1.7	-9.0	0.6	0.4	-1.6
P032-P126	-3.5	-1.4	9.8	-0.4	-0.3	1.6

P032-P796	-0.0	0.1	-0.7	-0.0	0.0	-0.2
P032-P804	1.7	0.9	-6.2	0.2	0.2	-1.2
P032-P784	-3.2	0.9	9.2	-0.4	0.2	1.6
P033-P036	0.3	0.4	-1.5	0.0	0.1	-0.3
P033-P040	2.2	0.5	-0.3	0.3	0.1	-0.1
P033-P796	-0.7	0.2	2.5	-0.1	0.0	0.5
P033-P804	0.1	-0.3	-0.6	0.0	-0.1	-0.1
P036-P040	0.7	-1.0	-4.3	0.1	-0.2	-0.7
P036-P796	-0.4	0.3	1.0	-0.0	0.1	0.2
P036-P804	0.8	0.1	-3.0	0.1	0.0	-0.6
P040-P084	2.0	-1.8	-0.0	0.3	-0.5	-0.0
P040-P796	-5.1	-0.9	7.2	-0.6	-0.2	1.2
P040-P804	-3.8	0.4	-9.9	-0.5	0.1	-1.9
P040-P826	3.6	2.6	-5.0	0.5	0.7	-1.0
P040-P043	0.7	-0.8	-4.0	0.1	-0.2	-0.8
P040-P818	1.1	0.7	2.7	0.2	0.2	0.5
P043-P084	-2.2	1.3	0.9	-0.3	0.3	0.2
P043-P089	2.8	-1.6	-0.2	0.4	-0.4	-0.0
P043-P430	0.7	-0.7	-2.5	0.1	-0.2	-0.5
P043-P804	-1.9	0.7	8.9	-0.2	0.2	1.5
P043-P818	-2.4	0.5	1.5	-0.3	0.1	0.3
P043-P826	0.7	-1.1	1.6	0.1	-0.3	0.4
P043-P840	-1.0	0.8	-0.0	-0.1	0.2	-0.0
P043-P070	2.8	-0.2	-7.3	0.4	-0.1	-1.6
P053-P056	-0.6	-4.2	-2.9	-0.1	-0.9	-0.5
P053-P071	0.4	-0.5	5.0	0.1	-0.1	1.0
P053-P089	1.8	2.1	-2.2	0.2	0.5	-0.4
P053-P840	2.2	0.7	-2.1	0.3	0.2	-0.4
P053-P845	1.9	0.4	1.0	0.3	0.1	0.2
P053-P852	-1.6	-0.6	-1.3	-0.2	-0.1	-0.2
P053-P073	0.4	2.1	-1.2	0.1	0.6	-0.3
P053-P127	-11.0	0.8	10.7	-1.1	0.1	1.4
P056-P852	-0.5	0.7	1.9	-0.1	0.1	0.3
P056-P073	-0.2	-3.0	-3.4	-0.0	-0.6	-0.5
P056-P127	0.3	-6.2	-5.3	0.0	-1.0	-0.6
P070-P089	-0.5	-0.8	3.7	-0.1	-0.2	0.7
P070-P430	-1.0	0.7	5.8	-0.1	0.2	1.1
P070-P826	-4.1	-1.6	2.7	-0.6	-0.4	0.6
P070-P840	-2.4	0.8	10.3	-0.3	0.2	1.9
P071-P089	-0.4	0.8	-1.7	-0.0	0.2	-0.3
P071-P840	0.2	-0.9	-0.2	0.0	-0.2	-0.0
P071-P073	0.2	0.4	4.2	0.0	0.1	0.8

P071-P845	0.2	-0.5	1.3	0.0	-0.1	0.3
P073-P089	0.0	-0.6	1.5	0.0	-0.1	0.3
P073-P840	1.1	-1.0	-0.1	0.2	-0.3	-0.0
P073-P845	-2.7	-0.2	-2.8	-0.4	-0.1	-0.6
P073-P852	-0.1	0.8	1.8	-0.0	0.2	0.3
P073-P127	12.8	5.8	6.9	1.2	1.0	0.9
P075-P105	0.1	-2.8	5.0	0.0	-0.6	0.8
P075-P129	0.4	3.7	-5.2	0.0	0.8	-0.9
P075-P334	-0.7	-2.0	2.7	-0.1	-0.4	0.4
P076-P102	-0.7	-0.6	-3.9	-0.1	-0.1	-0.6
P076-P127	-1.3	-2.1	-4.5	-0.1	-0.4	-0.7
P076-P128	0.4	0.0	0.6	0.0	0.0	0.1
P076-P466	-6.4	-9.4	-17.5	-0.8	-2.2	-3.1
P078-P125	-0.6	-5.5	18.6	-0.1	-1.3	3.3
P078-P126	-1.2	0.7	-2.0	-0.2	0.2	-0.4
P078-P775	1.4	0.4	1.1	0.2	0.1	0.2
P078-P784	-0.8	-1.3	-3.8	-0.1	-0.3	-0.7
P084-P804	-0.3	-0.8	8.3	-0.0	-0.2	1.4
P084-P826	0.1	0.5	-4.1	0.0	0.1	-0.8
P084-P818	-0.1	-0.7	0.9	-0.0	-0.2	0.2
P089-P826	0.0	0.2	4.9	0.0	0.1	0.9
P089-P430	-0.7	0.8	0.7	-0.1	0.2	0.1
P089-P840	1.4	-0.6	-2.6	0.2	-0.2	-0.6
P089-P845	1.5	-0.1	-0.7	0.2	-0.0	-0.1
P096-P494	-1.0	1.2	1.7	-0.1	0.3	0.3
P096-P495	-0.2	0.0	1.0	-0.0	0.0	0.2
P096-P761	0.9	-0.0	-6.4	0.1	-0.0	-1.2
P096-P125	-0.1	1.8	2.5	-0.0	0.5	0.5
P102-P128	0.4	1.0	4.5	0.0	0.2	0.7
P102-P127	-0.2	-0.5	-2.0	-0.0	-0.1	-0.3
P102-P466	-6.4	-8.4	-12.2	-0.8	-2.0	-2.2
P105-P106	0.3	-1.6	4.9	0.0	-0.4	0.9
P105-P334	-0.9	0.8	-2.4	-0.1	0.2	-0.5
P105-P129	0.5	5.5	-11.6	0.1	1.4	-2.1
P105-P350	3.0	-2.4	6.2	0.4	-0.6	1.2
P106-P334	0.8	1.2	-0.8	0.1	0.3	-0.1
P106-P350	1.6	-0.9	1.1	0.2	-0.2	0.2
P109-P761	-1.7	-0.7	11.3	-0.2	-0.2	2.1
P109-P350	-1.1	0.1	-1.8	-0.2	0.0	-0.4
P109-P494	1.0	-1.3	-4.2	0.1	-0.4	-0.9
P109-P751	-0.1	0.5	-0.5	-0.0	0.1	-0.1
P125-P126	5.8	3.5	-15.4	0.8	0.8	-2.9

P125-P494	-0.6	-0.5	-2.4	-0.1	-0.2	-0.5
P125-P495	0.5	-2.2	-2.6	0.1	-0.6	-0.5
P125-P761	1.1	-1.8	-8.9	0.2	-0.5	-2.0
P125-P775	2.5	2.8	-10.4	0.3	0.6	-1.9
P125-P784	5.7	6.4	-14.1	0.7	1.5	-2.5
P126-P775	-3.7	-0.1	3.4	-0.5	-0.0	0.6
P126-P784	-0.4	0.8	0.8	-0.1	0.2	0.2
P126-P796	3.4	0.0	-6.3	0.4	0.0	-1.1
P127-P128	0.7	2.1	5.4	0.1	0.5	0.9
P127-P852	8.9	-2.7	-6.6	0.8	-0.4	-0.8
P127-P466	-6.3	-9.3	-7.2	-0.9	-2.5	-1.5
P128-P466	-8.1	-9.2	-14.2	-1.0	-2.1	-2.5
P129-P334	-1.2	-4.8	9.5	-0.2	-1.2	1.7
P334-P350	0.5	-2.1	3.5	0.1	-0.5	0.6
P350-P494	1.6	-1.5	-3.1	0.2	-0.4	-0.7
P350-P751	1.1	-1.0	-0.2	0.2	-0.3	-0.0
P350-P761	-0.7	-0.9	11.6	-0.1	-0.2	2.3
P430-P826	0.4	-0.1	3.2	0.0	-0.0	0.6
P430-P840	-1.9	1.3	1.6	-0.2	0.3	0.3
P494-P495	0.9	-0.9	-0.8	0.1	-0.2	-0.1
P494-P761	1.5	-1.3	-5.1	0.2	-0.4	-1.1
P494-P751	-0.4	0.0	-0.8	-0.1	0.0	-0.2
P495-P761	0.6	0.1	-4.5	0.1	0.0	-0.9
P751-P761	-1.1	0.8	10.1	-0.1	0.2	1.9
P775-P784	2.6	1.5	0.1	0.3	0.4	0.0
P784-P796	2.7	-1.0	-8.2	0.3	-0.2	-1.4
P796-P804	1.4	0.1	-3.9	0.2	0.0	-0.8
P804-P826	0.4	2.0	-11.5	0.0	0.4	-2.0
P804-P818	0.9	0.2	-11.1	0.1	0.0	-1.9
P818-P826	-0.1	1.0	-0.0	-0.0	0.2	-0.0
P826-P840	-2.3	1.5	-0.8	-0.3	0.3	-0.1
P840-P845	0.1	0.5	1.5	0.0	0.1	0.3

Baselines which were rejected by the statistical test are marked.

5. Adjusted Points in WGS84 (Cart. Coordinates and Residuals)

Point	X [m]	Y [m]	Z [m]	resX [mm]	resY [mm]	resZ [mm]
1001	702859.024	-5599386.102	2962106.957	-----	-----	-----
M005	716606.066	-5614908.286	2929466.793	-----	-----	-----
M017	715999.327	-5614364.008	2930649.825	-0.0	0.0	0.0
M106	715368.252	-5614571.600	2930410.153	-----	-----	-----

P001	703669.075	-5592827.152	2974198.722	-0.0	0.0	-0.0
P005	702706.335	-5588319.411	2982826.519	-----	-----	-----
P007	702250.025	-5598290.968	2964304.930	-----	-----	-----
P011	717186.970	-5609510.168	2939581.502	-0.0	0.0	0.0
P014	703719.074	-5588611.632	2982047.476	-----	-----	-----
P017	703608.994	-5592796.869	2974271.446	-----	-----	-----
P028	702305.341	-5596977.344	2966754.637	-----	-----	-----
P032	703653.527	-5599991.527	2960781.070	-----	-----	-----
P033	703885.941	-5600093.999	2960534.061	-----	-----	-----
P036	704952.742	-5600803.639	2958947.427	-----	-----	-----
P040	707926.518	-5601637.150	2956674.073	-----	-----	-----
P043	709337.008	-5602075.134	2955513.902	-----	-----	-----
P053	713801.394	-5604579.564	2949724.872	-----	-----	-----
P056	714340.088	-5605463.605	2947927.401	-----	-----	-----
P070	709518.210	-5602297.622	2955053.408	-0.0	-0.0	0.0
P071	712381.054	-5604111.137	2950950.119	-----	-----	-----
P073	713333.170	-5604258.816	2950442.773	-----	-----	-----
P075	704039.519	-5589816.473	2979727.637	-----	-----	-----
P076	715126.734	-5609915.371	2939312.584	-----	-----	-----
P078	702162.499	-5597688.940	2965454.390	-----	-----	-----
P084	708666.746	-5601824.456	2956145.158	-----	-----	-----
P089	711438.465	-5603415.767	2952486.976	-----	-----	-----
P096	702638.053	-5595401.572	2969628.481	-----	-----	-----
P102	718519.571	-5608654.120	2940881.918	-----	-----	-----
P105	704045.129	-5591597.088	2976404.976	-----	-----	-----
P106	703663.672	-5592422.384	2974959.756	-----	-----	-----
P109	704253.355	-5593708.593	2972422.742	-----	-----	-----
P125	704318.912	-5595837.578	2968414.337	-0.0	0.0	0.0
P126	703104.993	-5597610.408	2965378.716	-----	-----	-----
P127	716805.722	-5608336.820	2941896.685	-----	-----	-----
P128	716033.161	-5609947.992	2939030.571	-----	-----	-----
P129	704886.445	-5588335.595	2982294.516	0.0	0.0	0.0
P334	703662.632	-5591324.996	2977005.198	-----	-----	-----
P350	704363.365	-5593361.100	2973037.499	-----	-----	-----
P430	710324.692	-5602622.121	2954248.691	-----	-----	-----
P466	714474.562	-5606752.731	2945458.458	0.0	0.0	0.0
P494	703982.011	-5593908.768	2972103.718	-----	-----	-----
P495	702661.295	-5595549.050	2969346.539	-----	-----	-----
P751	703651.176	-5593557.898	2972838.476	-----	-----	-----
P761	702813.837	-5595013.107	2970315.287	-----	-----	-----
P775	702185.886	-5597016.861	2966710.987	-----	-----	-----
P784	702168.264	-5598287.296	2964334.142	-----	-----	-----

P796	703309.433	-5599844.924	2961140.445	-----	-----	-----
P804	704531.846	-5600766.157	2959123.385	-----	-----	-----
P818	707894.159	-5601656.083	2956647.077	-----	-----	-----
P826	709376.247	-5602350.303	2954987.052	-----	-----	-----
P840	711879.635	-5603884.718	2951499.722	-----	-----	-----
P845	712843.307	-5604240.088	2950597.199	-----	-----	-----
P852	713865.847	-5604841.587	2949216.943	-----	-----	-----

6. Adjusted Points in WGS84 (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
I001	702859.024	-5599386.102	2962106.957	5.6	6.0	11.2
M005	716606.066	-5614908.286	2929466.793	8.0	8.0	15.7
M017	715999.327	-5614364.008	2930649.825	7.2	7.2	13.9
M106	715368.252	-5614571.600	2930410.153	7.8	7.9	15.5
P001	703669.075	-5592827.152	2974198.722	5.1	5.8	9.8
P005	702706.335	-5588319.411	2982826.519	7.9	7.9	15.5
P007	702250.025	-5598290.968	2964304.930	7.8	8.0	15.8
P011	717186.970	-5609510.168	2939581.502	5.1	6.3	9.6
P014	703719.074	-5588611.632	2982047.476	7.7	7.8	15.2
P017	703608.994	-5592796.869	2974271.446	6.4	6.8	12.6
P028	702305.341	-5596977.344	2966754.637	5.1	5.8	10.1
P032	703653.527	-5599991.527	2960781.070	4.9	5.2	9.8
P033	703885.941	-5600093.999	2960534.061	5.3	5.6	10.7
P036	704952.742	-5600803.639	2958947.427	5.4	5.6	10.8
P040	707926.518	-5601637.150	2956674.073	4.4	4.5	8.8
P043	709337.008	-5602075.134	2955513.902	3.6	3.7	7.2
P053	713801.394	-5604579.564	2949724.872	4.9	4.9	9.9
P056	714340.088	-5605463.605	2947927.401	6.1	6.1	12.3
P070	709518.210	-5602297.622	2955053.408	0.5	1.0	0.9
P071	712381.054	-5604111.137	2950950.119	5.0	5.0	10.1
P073	713333.170	-5604258.816	2950442.773	4.8	4.8	9.7
P075	704039.519	-5589816.473	2979727.637	7.7	7.7	15.2
P076	715126.734	-5609915.371	2939312.584	6.1	6.7	12.1
P078	702162.499	-5597688.940	2965454.390	5.4	6.0	10.6
P084	708666.746	-5601824.456	2956145.158	4.6	4.8	9.3
P089	711438.465	-5603415.767	2952486.976	4.0	4.1	8.2
P096	702638.053	-5595401.572	2969628.481	5.6	6.3	10.9
P102	718519.571	-5608654.120	2940881.918	6.1	6.6	12.0
P105	704045.129	-5591597.088	2976404.976	6.6	6.8	13.0
P106	703663.672	-5592422.384	2974959.756	6.5	6.8	12.7
P109	704253.355	-5593708.593	2972422.742	6.0	6.5	11.7

P125	704318.912	-5595837.578	2968414.337	3.7	4.9	6.9
P126	703104.993	-5597610.408	2965378.716	4.9	5.5	9.8
P127	716805.722	-5608336.820	2941896.685	5.4	5.7	10.6
P128	716033.161	-5609947.992	2939030.571	6.1	6.7	11.9
P129	704886.445	-5588335.595	2982294.516	7.2	7.2	13.9
P334	703662.632	-5591324.996	2977005.198	6.7	6.9	13.1
P350	704363.365	-5593361.100	2973037.499	5.9	6.3	11.4
P430	710324.692	-5602622.121	2954248.691	4.0	4.1	8.1
P466	714474.562	-5606752.731	2945458.458	3.3	3.9	6.2
P494	703982.011	-5593908.768	2972103.718	5.5	6.1	10.7
P495	702661.295	-5595549.050	2969346.539	5.6	6.3	10.9
P751	703651.176	-5593557.898	2972838.476	6.0	6.5	11.7
P761	702813.837	-5595013.107	2970315.287	5.4	6.1	10.5
P775	702185.886	-5597016.861	2966710.987	5.3	6.0	10.5
P784	702168.264	-5598287.296	2964334.142	5.0	5.5	9.9
P796	703309.433	-5599844.924	2961140.445	4.9	5.3	9.9
P804	704531.846	-5600766.157	2959123.385	4.7	4.9	9.5
P818	707894.159	-5601656.083	2956647.077	4.7	4.8	9.4
P826	709376.247	-5602350.303	2954987.052	3.5	3.7	7.1
P840	711879.635	-5603884.718	2951499.722	4.1	4.2	8.4
P845	712843.307	-5604240.088	2950597.199	5.0	5.0	10.1
P852	713865.847	-5604841.587	2949216.943	5.8	5.8	11.8

7. Adjusted Points in WGS84 (Geogr. Coordinates and Std.Dev.)

Point	Lat [Deg]	Lon [Deg]	ell.H [m]	orth.H [m]	geoid.H [m]	sN [mm]	sE [mm]	sH [mm]
1001	N27° 51' 10.99820"	W82° 50' 43.46703"	-22.370	-22.370	0.000	10.2	5.6	7.6
M005	N27° 31' 13.52794"	W82° 43' 36.87657"	-23.481	-23.481	0.000	14.3	7.9	10.3
M017	N27° 31' 56.87022"	W82° 43' 56.29926"	-23.608	-23.608	0.000	12.7	7.2	9.3
M106	N27° 31' 48.07155"	W82° 44' 20.06967"	-22.548	-22.548	0.000	14.1	7.8	10.2
P001	N27° 58' 35.54033"	W82° 49' 44.16492"	-22.812	-22.812	0.000	8.8	5.1	7.2
P005	N28° 03' 53.05199"	W82° 49' 58.53886"	-23.854	-23.854	0.000	14.1	7.9	10.2
P007	N27° 52' 31.77250"	W82° 51' 00.57099"	-22.746	-22.746	0.000	14.4	7.8	10.4
P011	N27° 37' 24.22099"	W82° 42' 50.93344"	-23.014	-23.014	0.000	8.5	5.1	7.7
P014	N28° 03' 24.35688"	W82° 49' 23.07832"	-22.892	-22.892	0.000	13.8	7.7	10.0
P017	N27° 58' 38.19889"	W82° 49' 46.20789"	-21.853	-21.853	0.000	11.4	6.4	8.6
P028	N27° 54' 01.81200"	W82° 50' 52.58547"	-22.855	-22.855	0.000	9.1	5.1	7.3
P032	N27° 50' 22.29536"	W82° 50' 17.41315"	-23.009	-23.009	0.000	8.9	4.9	6.7
P033	N27° 50' 13.21763"	W82° 50' 09.45275"	-22.824	-22.824	0.000	9.7	5.3	7.1
P036	N27° 49' 14.93816"	W82° 49' 34.01049"	-23.121	-23.121	0.000	9.8	5.3	7.2
P040	N27° 47' 51.44199"	W82° 47' 50.02654"	-23.121	-23.121	0.000	8.0	4.3	5.8
P043	N27° 47' 08.83683"	W82° 47' 00.91707"	-23.065	-23.065	0.000	6.6	3.6	4.8

P053	N27° 43' 36.31318"	W82° 44' 30.70772"	-22.774	-22.774	0.000	9.0	4.9	6.3
P056	N27° 42' 30.34046"	W82° 44' 15.27880"	-22.212	-22.212	0.000	11.2	6.0	7.9
P070	N27° 46' 51.91452"	W82° 46' 55.37173"	-22.296	-22.296	0.000	0.7	0.5	1.1
P071	N27° 44' 21.28006"	W82° 45' 19.99104"	-22.587	-22.587	0.000	9.2	5.0	6.4
P073	N27° 44' 02.66045"	W82° 44' 46.18626"	-22.707	-22.707	0.000	8.9	4.8	6.2
P075	N28° 01' 58.97610"	W82° 49' 16.94932"	-23.223	-23.223	0.000	13.8	7.7	10.0
P076	N27° 37' 14.35597"	W82° 44' 07.34343"	-22.728	-22.728	0.000	10.9	6.1	8.5
P078	N27° 53' 14.01940"	W82° 51' 01.00659"	-22.844	-22.844	0.000	9.6	5.3	7.5
P084	N27° 47' 32.02025"	W82° 47' 24.05739"	-23.229	-23.229	0.000	8.5	4.6	6.1
P089	N27° 45' 17.69639"	W82° 45' 50.93499"	-22.710	-22.710	0.000	7.5	4.0	5.3
P096	N27° 55' 47.45656"	W82° 50' 33.33511"	-22.383	-22.383	0.000	9.9	5.6	7.9
P102	N27° 38' 11.89438"	W82° 41' 58.75506"	-22.346	-22.346	0.000	10.9	6.1	8.3
P105	N27° 59' 56.71885"	W82° 49' 24.88936"	-23.686	-23.686	0.000	11.8	6.6	8.8
P106	N27° 59' 03.50419"	W82° 49' 42.51206"	-21.010	-21.010	0.000	11.5	6.5	8.7
P109	N27° 57' 30.14951"	W82° 49' 26.98150"	-18.845	-18.845	0.000	10.6	6.0	8.3
P125	N27° 55' 02.83559"	W82° 49' 34.32871"	-23.471	-23.471	0.000	6.0	3.7	6.0
P126	N27° 53' 11.24691"	W82° 50' 26.45825"	-23.358	-23.358	0.000	8.8	4.9	7.0
P127	N27° 38' 49.12088"	W82° 42' 59.30104"	-23.067	-23.067	0.000	9.6	5.4	7.3
P128	N27° 37' 04.02348"	W82° 43' 34.70025"	-23.174	-23.174	0.000	10.8	6.1	8.4
P129	N28° 03' 33.39319"	W82° 48' 39.40156"	-19.565	-19.565	0.000	12.6	7.2	9.2
P334	N28° 00' 18.78069"	W82° 49' 37.53551"	-22.414	-22.414	0.000	11.9	6.7	8.8
P350	N27° 57' 52.83105"	W82° 49' 21.39984"	-22.983	-22.983	0.000	10.3	5.8	8.0
P430	N27° 46' 22.37580"	W82° 46' 27.63883"	-22.791	-22.791	0.000	7.4	4.0	5.3
P466	N27° 40' 59.75679"	W82° 44' 16.35786"	-22.401	-22.401	0.000	5.6	3.3	4.9
P494	N27° 57' 18.48669"	W82° 49' 37.74554"	-22.908	-22.908	0.000	9.7	5.5	7.7
P495	N27° 55' 37.09368"	W82° 50' 33.16371"	-22.591	-22.591	0.000	9.8	5.6	7.9
P751	N27° 57' 45.50097"	W82° 49' 48.15220"	-22.399	-22.399	0.000	10.6	6.0	8.3
P761	N27° 56' 12.70062"	W82° 50' 25.18488"	-21.830	-21.830	0.000	9.5	5.4	7.6
P775	N27° 54' 00.18885"	W82° 50' 57.09940"	-21.771	-21.771	0.000	9.5	5.3	7.5
P784	N27° 52' 32.82128"	W82° 51' 03.52004"	-21.302	-21.302	0.000	8.9	5.0	7.0
P796	N27° 50' 35.47626"	W82° 50' 29.22262"	-21.718	-21.718	0.000	9.0	4.9	6.7
P804	N27° 49' 21.35417"	W82° 49' 49.09860"	-20.361	-20.361	0.000	8.6	4.7	6.3
P818	N27° 47' 50.44309"	W82° 47' 51.28607"	-22.684	-22.684	0.000	8.6	4.7	6.2
P826	N27° 46' 49.48601"	W82° 47' 00.75775"	-22.764	-22.764	0.000	6.5	3.5	4.7
P840	N27° 44' 41.43495"	W82° 45' 37.11114"	-21.489	-21.489	0.000	7.7	4.1	5.4
P845	N27° 44' 08.31657"	W82° 45' 03.84216"	-22.013	-22.013	0.000	9.3	5.0	6.5
P852	N27° 43' 17.65525"	W82° 44' 29.58215"	-21.778	-21.778	0.000	10.8	5.8	7.5

8. Adjusted Points in National System (Plane Coord. and Residuals)

Point	N [m]	E [m]	ell.H [m]	resN [mm]	resE [mm]	resH [mm]
1001	3082292.185	318291.510	-22.505	-----	-----	-----

M005	3045267.016	329445.164	-23.511	-----	-----	-----
M017	3046608.393	328930.870	-23.643	0.0	0.0	0.0
M106	3046346.732	328274.903	-22.589	-----	-----	-----
P001	3095950.605	320118.375	-22.935	0.0	0.0	-0.0
P005	3105729.456	319872.529	-23.982	-----	-----	-----
P007	3084785.421	317861.135	-22.885	-----	-----	-----
P011	3056658.307	330863.831	-23.035	0.0	0.0	-0.0
P014	3104831.685	320827.494	-23.012	-----	-----	-----
P017	3096033.271	320063.776	-21.977	-----	-----	-----
P028	3087553.492	318121.374	-22.993	-----	-----	-----
P032	3080782.442	318981.789	-23.138	-----	-----	-----
P033	3080499.775	319195.404	-22.951	-----	-----	-----
P036	3078691.514	320138.432	-23.240	-----	-----	-----
P040	3076079.608	322946.296	-23.215	-----	-----	-----
P043	3074748.692	324271.397	-23.147	-----	-----	-----
P053	3068148.668	328290.442	-22.821	-----	-----	-----
P056	3066112.206	328684.353	-22.255	-----	-----	-----
P070	3074225.648	324415.637	-22.377	0.0	0.0	0.0
P071	3069551.829	326960.425	-22.645	-----	-----	-----
P073	3068965.586	327878.024	-22.757	-----	-----	-----
P075	3102201.174	320955.555	-23.341	-----	-----	-----
P076	3056383.934	328764.914	-22.767	-----	-----	-----
P078	3086085.938	317868.866	-22.984	-----	-----	-----
P084	3075471.455	323648.369	-23.316	-----	-----	-----
P089	3071300.334	326137.935	-22.775	-----	-----	-----
P096	3090797.244	318696.748	-22.517	-----	-----	-----
P102	3058105.788	332314.398	-22.355	-----	-----	-----
P105	3098441.371	320682.425	-23.805	-----	-----	-----
P106	3096810.646	320176.432	-21.133	-----	-----	-----
P109	3093930.881	320557.860	-18.964	-----	-----	-----
P125	3089399.639	320289.324	-23.591	0.0	0.0	-0.0
P126	3085986.363	318812.420	-23.490	-----	-----	-----
P127	3059274.472	330670.769	-23.090	-----	-----	-----
P128	3056053.391	329655.353	-23.206	-----	-----	-----
P129	3105092.025	322024.234	-19.675	0.0	0.0	-0.0
P334	3099125.597	320347.104	-22.537	-----	-----	-----
P350	3094626.730	320720.824	-23.101	-----	-----	-----
P430	3073305.511	325161.681	-22.865	-----	-----	-----
P466	3063324.672	328615.479	-22.443	0.0	0.0	-0.0
P494	3093576.301	320258.308	-23.030	-----	-----	-----
P495	3090478.209	318696.628	-22.725	-----	-----	-----
P751	3094412.045	319986.340	-22.523	-----	-----	-----

P761	3091570.890	318931.250	-21.963	-----	-----	-----
P775	3087505.396	317997.186	-21.910	-----	-----	-----
P784	3084818.920	317780.963	-21.442	-----	-----	-----
P796	3081192.987	318664.771	-21.850	-----	-----	-----
P804	3078895.143	319728.495	-20.483	-----	-----	-----
P818	3076049.368	322911.372	-22.778	-----	-----	-----
P826	3074153.041	324267.113	-22.846	-----	-----	-----
P840	3070178.854	326500.472	-21.551	-----	-----	-----
P845	3069146.539	327396.979	-22.067	-----	-----	-----
P852	3067573.982	328313.146	-21.824	-----	-----	-----

9. Adjusted Points in National System (Plane Coord. and Std.Dev.)

Point	N [m]	E [m]	ell.H [m]	orth.H [m]	geoid.H [m]	sN [mm]	sE [mm]	sH [mm]
1001	3082292.185	318291.510	-22.505	-22.505	0.000	10.2	5.6	7.6
M005	3045267.016	329445.164	-23.511	-23.511	0.000	14.3	7.9	10.3
M017	3046608.393	328930.870	-23.643	-23.643	0.000	12.7	7.2	9.3
M106	3046346.732	328274.903	-22.589	-22.589	0.000	14.1	7.8	10.2
P001	3095950.605	320118.375	-22.935	-22.935	0.000	8.8	5.1	7.2
P005	3105729.456	319872.529	-23.982	-23.982	0.000	14.1	7.9	10.2
P007	3084785.421	317861.135	-22.885	-22.885	0.000	14.4	7.8	10.4
P011	3056658.307	330863.831	-23.035	-23.035	0.000	8.5	5.1	7.7
P014	3104831.685	320827.494	-23.012	-23.012	0.000	13.8	7.7	10.0
P017	3096033.271	320063.776	-21.977	-21.977	0.000	11.4	6.4	8.6
P028	3087553.492	318121.374	-22.993	-22.993	0.000	9.1	5.1	7.3
P032	3080782.442	318981.789	-23.138	-23.138	0.000	8.9	4.9	6.7
P033	3080499.775	319195.404	-22.951	-22.951	0.000	9.7	5.3	7.1
P036	3078691.514	320138.432	-23.240	-23.240	0.000	9.8	5.3	7.2
P040	3076079.608	322946.296	-23.215	-23.215	0.000	8.0	4.3	5.8
P043	3074748.692	324271.397	-23.147	-23.147	0.000	6.6	3.6	4.8
P053	3068148.668	328290.442	-22.821	-22.821	0.000	9.0	4.9	6.3
P056	3066112.206	328684.353	-22.255	-22.255	0.000	11.2	6.0	7.9
P070	3074225.648	324415.637	-22.377	-22.377	0.000	0.7	0.5	1.1
P071	3069551.829	326960.425	-22.645	-22.645	0.000	9.2	5.0	6.4
P073	3068965.586	327878.024	-22.757	-22.757	0.000	8.9	4.8	6.2
P075	3102201.174	320955.555	-23.341	-23.341	0.000	13.8	7.7	10.0
P076	3056383.934	328764.914	-22.767	-22.767	0.000	10.9	6.1	8.5
P078	3086085.938	317868.866	-22.984	-22.984	0.000	9.6	5.3	7.5
P084	3075471.455	323648.369	-23.316	-23.316	0.000	8.5	4.6	6.1
P089	3071300.334	326137.935	-22.775	-22.775	0.000	7.5	4.0	5.3
P096	3090797.244	318696.748	-22.517	-22.517	0.000	9.9	5.6	7.9
P102	3058105.788	332314.398	-22.355	-22.355	0.000	10.9	6.1	8.3

P105	3098441.371	320682.425	-23.805	-23.805	0.000	11.8	6.6	8.8
P106	3096810.646	320176.432	-21.133	-21.133	0.000	11.5	6.5	8.7
P109	3093930.881	320557.860	-18.964	-18.964	0.000	10.6	6.0	8.3
P125	3089399.639	320289.324	-23.591	-23.591	0.000	6.0	3.7	6.0
P126	3085986.363	318812.420	-23.490	-23.490	0.000	8.8	4.9	7.0
P127	3059274.472	330670.769	-23.090	-23.090	0.000	9.6	5.4	7.3
P128	3056053.391	329655.353	-23.206	-23.206	0.000	10.8	6.1	8.4
P129	3105092.025	322024.234	-19.675	-19.675	0.000	12.6	7.2	9.2
P334	3099125.597	320347.104	-22.537	-22.537	0.000	11.9	6.7	8.8
P350	3094626.730	320720.824	-23.101	-23.101	0.000	10.3	5.8	8.0
P430	3073305.511	325161.681	-22.865	-22.865	0.000	7.4	4.0	5.3
P466	3063324.672	328615.479	-22.443	-22.443	0.000	5.6	3.3	4.9
P494	3093576.301	320258.308	-23.030	-23.030	0.000	9.7	5.5	7.7
P495	3090478.209	318696.628	-22.725	-22.725	0.000	9.8	5.6	7.9
P751	3094412.045	319986.340	-22.523	-22.523	0.000	10.6	6.0	8.3
P761	3091570.890	318931.250	-21.963	-21.963	0.000	9.5	5.4	7.6
P775	3087505.396	317997.186	-21.910	-21.910	0.000	9.5	5.3	7.5
P784	3084818.920	317780.963	-21.442	-21.442	0.000	8.9	5.0	7.0
P796	3081192.987	318664.771	-21.850	-21.850	0.000	9.0	4.9	6.7
P804	3078895.143	319728.495	-20.483	-20.483	0.000	8.6	4.7	6.3
P818	3076049.368	322911.372	-22.778	-22.778	0.000	8.6	4.7	6.2
P826	3074153.041	324267.113	-22.846	-22.846	0.000	6.5	3.5	4.7
P840	3070178.854	326500.472	-21.551	-21.551	0.000	7.7	4.1	5.4
P845	3069146.539	327396.979	-22.067	-22.067	0.000	9.3	5.0	6.5
P852	3067573.982	328313.146	-21.824	-21.824	0.000	10.8	5.8	7.5

10. Adjusted Points Error Ellipses

Point	A [mm]	B [mm]	Angle [Deg]
1001	10.2	5.6	-1.6
M005	14.3	7.9	-1.7
M017	12.7	7.2	-1.0
M106	14.1	7.8	-1.7
P001	8.9	5.0	-7.2
P005	14.1	7.9	-0.8
P007	14.4	7.8	-0.7
P011	8.6	4.9	-10.2
P014	13.8	7.7	-0.8
P017	11.4	6.4	-3.6
P028	9.1	5.1	-4.3
P032	8.9	4.9	-1.5
P033	9.7	5.3	-0.9

P036	9.8	5.3	-0.8
P040	8.0	4.3	-0.4
P043	6.6	3.6	0.0
P053	9.0	4.9	-0.0
P056	11.2	6.0	-0.2
P070	0.8	0.4	27.0
P071	9.2	5.0	0.1
P073	8.9	4.8	-0.0
P075	13.8	7.7	-1.1
P076	10.9	6.1	-4.1
P078	9.6	5.3	-3.5
P084	8.5	4.6	-0.2
P089	7.5	4.0	0.2
P096	9.9	5.5	-4.6
P102	10.9	6.1	-3.9
P105	11.8	6.6	-2.7
P106	11.5	6.5	-3.5
P109	10.6	6.0	-4.4
P125	6.1	3.5	-12.8
P126	8.9	4.9	-3.5
P127	9.6	5.4	-3.5
P128	10.8	6.0	-4.2
P129	12.6	7.2	0.7
P334	11.9	6.7	-2.6
P350	10.3	5.8	-4.6
P430	7.4	4.0	0.2
P466	5.6	3.2	-9.3
P494	9.7	5.4	-5.2
P495	9.9	5.5	-4.6
P751	10.6	6.0	-4.4
P761	9.5	5.3	-5.3
P775	9.5	5.3	-3.7
P784	8.9	4.9	-3.3
P796	9.0	4.9	-1.5
P804	8.6	4.7	-0.8
P818	8.6	4.7	-0.2
P826	6.5	3.5	0.1
P840	7.7	4.1	0.2
P845	9.3	5.0	0.1
P852	10.8	5.8	-0.2

Tier-2_B:

Statistics	
Adjustment in the national system.	
System: UTM 17 (Datum: WGS_84, Projection: UTM_WGS)	
Geoidmodel	None
Number of baselines	332
Number of terrestrial measurements	0
Number of control points in national system	12
Number of adjusted points	106
Confidence level	2 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	1.494
Number of iterations	3

Adjusted Transformation Parameters WGS84->National:	
Scale	1.000001448 +- 0.000000784
Rotation X	0.2651 arcsec +- 0.2467 arcsec
Rotation Y	-0.0710 arcsec +- 0.1953 arcsec
Rotation Z	-0.4752 arcsec +- 0.3236 arcsec
Translation X	-15.036 m
Translation Y	2.748 m
Translation Z	-11.185 m
The translation has been calculated using the WGS84 coordinates of point S901.	

1. Baselines Input in WGS84 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
1001-S145	45.048	327.320	620.178	11.1	11.1	22.1
1001-S722	-2514.317	1101.748	2745.110	15.8	15.8	31.6
1001-S735	395.782	-162.090	-409.380	10.9	10.9	21.8
1001-S143	-685.717	948.748	1991.911	13.5	13.5	26.9
1002-S141	-1460.322	639.028	1586.616	13.4	13.4	26.7
1002-S143	2639.335	-409.634	-1443.918	14.6	14.6	29.1
1002-S144	2381.904	-632.037	-1807.032	14.6	14.6	29.2
1002-S722	810.735	-256.644	-690.716	11.6	11.6	23.3

C004-S107	-3633.051	2048.646	4918.589	19.7	19.7	39.3
C004-S127	1340.428	-980.923	-2259.590	14.2	14.2	28.4
C004-S170	-1373.357	753.971	1821.463	13.6	13.6	27.2
C004-S172	-35.605	-56.479	-95.764	10.2	10.2	20.4
C004-S173	1031.109	-801.220	-1827.745	13.4	13.4	26.7
C009-C012	-880.514	-301.452	-362.483	11.5	11.5	23.0
C009-C016	5.314	-854.464	-1674.923	12.8	12.8	25.6
C009-C017	191.675	-973.075	-1955.392	13.3	13.3	26.6
C009-S127	-4854.844	2117.852	5386.278	21.3	21.3	42.7
C009-S173	-5164.177	2297.554	5818.140	22.2	22.2	44.3
C009-C710	-754.841	-471.584	-725.206	11.7	11.7	23.4
C009-S876	-3258.956	1072.440	2941.128	16.8	16.8	33.6
C012-S127	-3974.332	2419.297	5748.764	21.1	21.1	42.2
C012-S876	-2378.445	1373.894	3303.610	16.4	16.4	32.9
C012-C016	885.825	-553.019	-1312.436	12.5	12.5	25.0
C012-C017	1072.187	-671.629	-1592.904	13.1	13.1	26.1
C012-S173	-4283.667	2599.017	6180.614	21.9	21.9	43.9
C012-C710	125.669	-170.138	-362.721	10.6	10.6	21.3
C016-C017	186.362	-118.610	-280.469	10.5	10.5	21.1
C016-C023	2061.622	-1119.761	-2727.931	15.4	15.4	30.8
C016-C024	2513.199	-1274.123	-3146.596	16.3	16.3	32.7
C016-C075	4073.688	-2044.269	-5063.766	20.2	20.2	40.4
C016-C332	3433.084	-1680.765	-4185.241	18.5	18.5	37.0
C016-C710	-760.156	382.880	949.716	11.9	11.9	23.8
C017-C023	1875.239	-1001.149	-2447.465	14.9	14.9	29.7
C017-C024	2326.816	-1155.511	-2866.131	15.8	15.8	31.6
C017-C075	3887.304	-1925.655	-4783.301	19.7	19.7	39.4
C017-C332	3246.701	-1562.154	-3904.775	18.0	18.0	35.9
C017-C710	-946.516	501.489	1230.186	12.4	12.4	24.9
C023-C024	451.576	-154.361	-418.666	11.0	11.0	21.9
C023-C075	2012.065	-924.506	-2335.836	14.8	14.8	29.7
C023-C332	1371.461	-561.004	-1457.311	13.1	13.1	26.2
C024-C075	1560.489	-770.144	-1917.170	13.9	13.9	27.8
C024-C332	919.885	-406.643	-1038.645	12.2	12.2	24.3
C029-C075	118.099	-186.930	-394.643	10.7	10.7	21.4
C029-C076	1588.968	-447.809	-1297.256	13.1	13.1	26.3
C029-C077	5580.102	-1031.560	-3493.666	20.0	20.0	40.0
C029-C322	-522.505	176.569	483.885	11.1	11.1	22.2
C029-L361	3926.553	-2652.790	-6231.651	21.7	21.7	43.5
C044-L008	703.557	-593.062	-1352.973	12.5	12.5	24.9
C044-C076	-3386.249	2630.346	6050.521	21.1	21.1	42.2
C044-C077	604.877	2046.616	3854.085	16.6	16.6	33.2

C044-L103	876.431	-1037.178	-2271.214	14.0	14.0	27.9
C044-L361	-1048.678	425.386	1116.096	12.4	12.4	24.8
C075-C332	-640.604	363.502	878.524	11.7	11.7	23.4
C075-C076	1470.867	-260.879	-902.613	12.6	12.6	25.2
C075-C077	5461.996	-844.624	-3099.029	19.5	19.5	39.0
C075-C322	-640.605	363.499	878.528	11.7	11.7	23.4
C075-L361	3808.449	-2465.854	-5837.013	21.1	21.1	42.2
C076-L008	4089.809	-3223.421	-7403.473	23.6	23.6	47.2
C076-C077	3991.133	-583.750	-2196.407	16.9	16.9	33.8
C076-L103	4262.699	-3667.555	-8321.722	25.1	25.1	50.1
C076-C322	-2111.471	624.377	1781.142	14.2	14.2	28.5
C076-L361	2337.585	-2204.974	-4934.393	18.8	18.8	37.7
C077-L008	98.679	-2639.676	-5207.059	18.8	18.8	37.5
C077-L103	271.553	-3083.785	-6125.314	20.3	20.3	40.6
C077-L110	862.445	-5046.170	-10140.474	27.0	27.0	54.1
C077-L111	878.316	-5232.074	-10510.355	27.7	27.7	55.3
C077-L225	11002.651	-4930.050	-12642.764	36.2	36.2	72.4
C077-L227	865.450	-5629.652	-11289.483	29.0	29.0	57.9
C077-C322	-6102.600	1208.122	3977.557	21.1	21.1	42.2
C077-L326	956.661	-5674.212	-11400.510	29.2	29.2	58.3
C077-L361	-1653.547	-1621.227	-2737.985	15.4	15.4	30.8
C322-L361	4449.053	-2829.353	-6715.541	22.8	22.8	45.6
L007-L103	615.223	-822.928	-1779.346	13.1	13.1	26.2
L007-L104	741.104	-1141.097	-2438.095	14.2	14.2	28.4
L007-L106	1054.379	-1758.303	-3733.711	16.4	16.4	32.8
L007-L107	956.299	-1797.443	-3783.614	16.4	16.4	32.9
L007-L314	849.133	-1867.301	-3889.607	16.6	16.6	33.2
L008-L103	172.872	-444.105	-918.259	11.6	11.6	23.1
L008-L361	-1752.233	1018.448	2469.072	14.8	14.8	29.6
L103-L104	125.880	-318.177	-658.747	11.1	11.1	22.2
L103-L106	439.156	-935.374	-1954.367	13.3	13.3	26.6
L103-L107	341.076	-974.516	-2004.268	13.4	13.4	26.8
L103-L314	233.910	-1044.374	-2110.262	13.5	13.5	27.1
L103-L361	-1925.109	1462.555	3387.324	16.2	16.2	32.5
L104-L107	215.191	-656.360	-1345.515	12.3	12.3	24.5
L104-L106	313.272	-617.211	-1295.615	12.2	12.2	24.4
L104-L314	108.026	-726.213	-1451.510	12.4	12.4	24.9
L106-L107	-98.082	-39.147	-49.900	10.2	10.2	20.4
L106-L314	-205.247	-109.002	-155.895	10.4	10.4	20.8
L107-L110	249.801	-987.800	-2010.900	13.4	13.4	26.8
L107-L111	265.679	-1173.714	-2380.778	14.0	14.0	28.0
L107-L108	38.948	-281.298	-562.506	10.9	10.9	21.9

L107-L314	-107.168	-69.853	-105.992	10.2	10.2	20.5
L108-L110	210.853	-706.502	-1448.394	12.4	12.4	24.9
L108-L111	226.730	-892.420	-1818.269	13.1	13.1	26.1
L108-L314	-146.116	211.445	456.515	10.8	10.8	21.6
L110-L111	15.874	-185.902	-369.880	10.6	10.6	21.2
L110-L227	3.007	-583.482	-1149.010	11.9	11.9	23.9
L110-L225	10140.204	116.121	-2502.288	25.7	25.7	51.3
L110-L314	-356.970	917.948	1904.907	13.2	13.2	26.4
L110-L326	94.222	-628.054	-1260.042	12.1	12.1	24.2
L111-L227	-12.868	-397.584	-779.129	11.3	11.3	22.6
L111-L225	10124.334	302.025	-2132.409	25.5	25.5	51.1
L111-L314	-372.846	1103.861	2274.786	13.8	13.8	27.7
L111-L326	78.348	-442.144	-890.163	11.5	11.5	23.0
L225-L227	-10137.200	-699.594	1353.275	25.4	25.4	50.8
L225-L326	-10045.989	-744.166	1242.254	25.2	25.2	50.4
L227-L326	91.217	-44.565	-111.034	10.2	10.2	20.5
M003-M118	-528.977	933.769	1908.609	13.3	13.3	26.6
M003-M721	-1114.747	855.120	1902.938	13.5	13.5	27.1
M003-M731	329.670	-345.595	-738.867	11.3	11.3	22.6
M003-M115	-1093.415	1317.350	2775.394	14.9	14.9	29.8
M003-M132	-87.953	89.902	192.244	10.3	10.3	20.7
M005-M106	-1237.812	336.684	943.344	12.4	12.4	24.8
M005-M709	-791.020	56.969	303.589	11.3	11.3	22.5
M005-M721	1463.161	-1023.221	-2301.906	14.4	14.4	28.7
M005-M017	-606.725	544.261	1183.032	12.2	12.2	24.3
M005-M115	1484.503	-560.964	-1429.461	13.2	13.2	26.4
M010-M016	677.905	555.923	895.114	11.9	11.9	23.8
M010-M120	-346.717	412.911	873.253	11.5	11.5	23.1
M010-M126	1609.699	-1283.225	-2845.668	15.3	15.3	30.5
M010-M129	3895.557	-1893.633	-4567.582	19.4	19.4	38.9
M010-M132	-842.602	888.160	1901.576	13.4	13.4	26.8
M010-M341	754.436	-669.166	-1461.435	12.7	12.7	25.3
M010-M356	3587.447	-1862.267	-4435.461	19.0	19.0	38.0
M010-M731	-424.978	452.677	970.460	11.7	11.7	23.5
M010-M745	916.215	-1153.198	-2425.543	14.3	14.3	28.5
M016-M731	-1102.880	-103.252	75.347	11.7	11.7	23.3
M016-M120	-1024.634	-142.998	-21.866	11.6	11.6	23.1
M016-M126	931.767	-1839.121	-3740.792	16.4	16.4	32.8
M016-M129	3217.625	-2449.530	-5462.699	20.2	20.2	40.4
M016-M132	-1520.498	332.228	1006.462	12.8	12.8	25.6
M016-M341	76.512	-1225.081	-2356.540	14.0	14.0	28.0
M016-M356	2909.518	-2418.169	-5330.579	19.8	19.8	39.6

M016-M745	238.285	-1709.097	-3320.663	15.6	15.6	31.2
M017-M106	-631.082	-207.581	-239.686	11.1	11.1	22.1
M017-M115	2091.224	-1105.219	-2612.506	15.3	15.3	30.6
M017-M709	-184.284	-487.309	-879.438	11.5	11.5	23.1
M017-M721	2069.892	-1567.479	-3484.940	16.5	16.5	33.0
M106-M115	2722.304	-897.643	-2372.810	15.6	15.6	31.2
M106-M709	446.794	-279.721	-639.758	11.2	11.2	22.5
M106-M721	2700.972	-1359.891	-3245.258	16.7	16.7	33.3
M115-M118	564.436	-383.576	-866.787	11.7	11.7	23.3
M115-M132	1005.460	-1227.469	-2583.140	14.5	14.5	29.1
M115-M709	-2275.509	617.922	1733.050	14.4	14.4	28.8
M115-M721	-21.332	-462.249	-872.448	11.5	11.5	23.0
M115-M731	1423.086	-1662.944	-3514.262	16.2	16.2	32.4
M118-M731	858.649	-1279.371	-2647.474	14.6	14.6	29.2
M118-M132	441.024	-843.874	-1716.366	12.9	12.9	25.9
M118-M721	-585.770	-78.653	-5.670	10.9	10.9	21.8
M120-M341	1101.147	-1082.078	-2334.677	14.2	14.2	28.4
M120-M731	-78.246	39.747	97.212	10.2	10.2	20.4
M120-M132	-495.865	475.240	1028.324	11.9	11.9	23.7
M126-M129	2285.861	-610.411	-1721.906	14.4	14.4	28.8
M126-M356	1977.754	-579.051	-1589.781	13.9	13.9	27.8
M126-M745	-693.480	130.022	420.132	11.2	11.2	22.5
M129-M356	-308.107	31.358	132.126	10.5	10.5	21.0
M129-M745	-2979.341	740.433	2142.038	15.6	15.6	31.2
M130-M131	642.602	-381.184	-888.970	11.7	11.7	23.5
M130-S140	1152.757	-649.741	-1527.870	13.0	13.0	26.1
M130-M356	-1211.753	366.515	1000.397	12.4	12.4	24.8
M131-M356	-1854.354	747.710	1889.371	14.1	14.1	28.3
M131-S140	510.156	-268.551	-638.901	11.3	11.3	22.6
M132-M341	1597.011	-1557.309	-3363.012	16.1	16.1	32.1
M132-M721	-1026.795	765.226	1710.693	13.2	13.2	26.4
M132-M731	417.620	-435.480	-931.114	11.7	11.7	23.3
M341-M731	-1179.393	1121.826	2431.888	14.4	14.4	28.8
M356-M745	-2671.234	709.073	2009.913	15.1	15.1	30.3
M709-M721	2254.177	-1080.172	-2605.498	15.4	15.4	30.8
M721-M731	1444.418	-1200.715	-2641.805	14.9	14.9	29.7
S002-S103	905.285	-1014.209	-2195.119	13.9	13.9	27.7
S002-S104	1327.593	-1400.600	-3050.468	15.4	15.4	30.8
S002-S126	2008.072	-1572.426	-3554.568	16.6	16.6	33.1
S002-S162	-552.953	520.600	1151.077	12.1	12.1	24.1
S002-S163	-534.006	567.654	1245.212	12.2	12.2	24.4
S002-S164	592.214	-436.724	-990.347	11.9	11.9	23.7

S002-S003	1660.316	-1751.154	-3814.088	16.8	16.8	33.5
S002-S901	-614.935	490.004	1110.594	12.0	12.0	24.1
S003-S103	-755.031	736.946	1618.969	12.9	12.9	25.8
S003-S104	-332.723	350.556	763.620	11.4	11.4	22.7
S003-S107	616.038	-557.721	-1241.516	12.2	12.2	24.5
S003-S126	347.756	178.728	259.519	10.7	10.7	21.4
S003-S164	-1068.102	1314.426	2823.742	14.9	14.9	29.9
S003-S165	973.100	-780.104	-1765.438	13.2	13.2	26.5
S003-S831	-57.857	-23.026	-23.775	10.1	10.1	20.2
S003-S837	875.711	-735.171	-1651.462	13.0	13.0	26.0
S103-S104	422.308	-386.389	-855.350	11.5	11.5	23.1
S103-S126	1102.788	-558.217	-1359.450	12.8	12.8	25.5
S103-S164	-313.069	577.481	1204.772	12.1	12.1	24.1
S104-S126	680.480	-171.827	-504.100	11.3	11.3	22.6
S104-S164	-735.378	963.871	2060.121	13.6	13.6	27.2
S107-S126	-268.282	736.450	1501.038	12.5	12.5	25.1
S107-S165	357.061	-222.383	-523.922	11.0	11.0	22.0
S107-S837	259.673	-177.451	-409.946	10.8	10.8	21.6
S107-S831	-673.896	534.695	1217.742	12.2	12.2	24.5
S112-S114	169.053	-232.883	-489.958	10.9	10.9	21.7
S112-S115	195.445	-486.638	-984.654	11.7	11.7	23.3
S112-S149	2694.459	-791.932	-2199.071	15.4	15.4	30.7
S112-S116	1078.678	-658.120	-1535.677	13.0	13.0	26.0
S112-S133	-971.485	1248.132	2642.011	14.6	14.6	29.2
S112-S147	-1720.550	1468.027	3252.204	15.9	15.9	31.9
S112-S148	-717.611	1028.623	2156.197	13.7	13.7	27.5
S112-S700	-651.459	1111.559	2298.492	14.0	14.0	27.9
S112-S735	-1324.755	1305.939	2842.828	15.1	15.1	30.2
S114-S115	26.403	-253.762	-494.689	10.8	10.8	21.7
S114-S149	2525.411	-559.037	-1709.117	14.7	14.7	29.3
S114-S116	909.625	-425.238	-1045.719	12.2	12.2	24.3
S114-S148	-886.655	1261.517	2646.145	14.6	14.6	29.2
S115-S116	883.232	-171.483	-551.024	11.6	11.6	23.2
S115-S148	-913.059	1515.263	3140.844	15.4	15.4	30.8
S115-S149	2499.008	-305.292	-1214.430	14.2	14.2	28.4
S116-S118	1897.260	-316.888	-1086.471	13.3	13.3	26.6
S116-S121	2473.925	-965.004	-2481.836	15.5	15.5	30.9
S116-S122	2447.092	-1022.058	-2582.766	15.6	15.6	31.1
S116-S148	-1796.285	1686.742	3691.870	16.7	16.7	33.3
S116-S149	1615.782	-133.811	-663.395	12.6	12.6	25.3
S116-S361	2127.469	-733.760	-1947.472	14.5	14.5	28.9
S116-S747	-903.545	119.528	457.847	11.5	11.5	23.1

S118-S121	576.664	-648.090	-1395.378	12.5	12.5	24.9
S118-S122	549.831	-705.163	-1496.301	12.6	12.6	25.2
S118-S361	230.209	-416.848	-861.020	11.5	11.5	23.0
S118-S747	-2800.801	436.420	1544.310	14.8	14.8	29.7
S121-S123	1367.915	-769.828	-1825.194	13.6	13.6	27.2
S121-S134	1820.520	-920.526	-2231.429	14.5	14.5	29.1
S121-S122	-26.829	-57.051	-100.929	10.2	10.2	20.4
S121-S150	2135.524	-1251.478	-2951.562	15.8	15.8	31.6
S121-S151	2381.922	-1521.519	-3534.019	16.8	16.8	33.6
S121-S361	-346.454	231.242	534.363	11.0	11.0	22.0
S121-S747	-3377.472	1084.537	2939.682	16.9	16.9	33.8
S122-S123	1394.739	-712.788	-1724.253	13.5	13.5	27.0
S122-S134	1847.346	-863.478	-2130.497	14.4	14.4	28.8
S122-S150	2162.352	-1194.440	-2850.623	15.7	15.7	31.3
S122-S361	-319.624	288.300	635.294	11.2	11.2	22.3
S122-S747	-3350.638	1141.585	3040.614	17.0	17.0	34.0
S122-S151	2408.747	-1464.474	-3433.076	16.7	16.7	33.3
S123-S134	452.606	-150.691	-406.241	10.9	10.9	21.9
S123-S150	767.613	-481.652	-1126.363	12.2	12.2	24.3
S123-S151	1014.008	-751.686	-1708.824	13.2	13.2	26.4
S126-S837	527.954	-913.901	-1910.984	13.3	13.3	26.5
S126-S164	-1415.857	1135.697	2564.222	14.7	14.7	29.4
S126-S165	625.343	-958.833	-2024.960	13.5	13.5	27.0
S126-S831	-405.614	-201.756	-283.297	10.8	10.8	21.6
S127-S172	-1376.033	924.448	2163.825	14.1	14.1	28.2
S127-S876	1595.890	-1045.393	-2445.156	14.7	14.7	29.3
S127-S170	-2713.783	1734.906	4081.049	17.8	17.8	35.6
S127-S173	-309.331	179.736	431.849	10.8	10.8	21.7
S133-S147	-749.061	219.897	610.195	11.5	11.5	23.0
S133-S700	320.029	-136.573	-343.520	10.7	10.7	21.5
S133-S735	-353.269	57.805	200.817	10.6	10.6	21.2
S134-S150	315.006	-330.960	-720.121	11.3	11.3	22.6
S134-S151	561.403	-600.996	-1302.586	12.3	12.3	24.6
S136-S141	1491.248	-827.963	-1957.853	13.9	13.9	27.8
S136-S318	2951.569	-1466.989	-3544.466	17.3	17.3	34.5
S136-S140	-86.305	114.943	239.276	10.4	10.4	20.8
S136-S704	298.033	-237.054	-528.441	11.0	11.0	22.0
S140-S141	1577.550	-942.904	-2197.133	14.3	14.3	28.6
S140-S318	3037.869	-1581.925	-3783.744	17.7	17.7	35.3
S140-S704	384.338	-351.997	-767.716	11.4	11.4	22.8
S141-S318	1460.321	-639.025	-1586.612	13.4	13.4	26.7
S141-S722	2271.057	-895.673	-2277.329	15.0	15.0	30.0

S141-S143	4099.660	-1048.666	-3030.536	17.8	17.8	35.6
S141-S144	3842.223	-1271.058	-3393.643	17.9	17.9	35.8
S141-S704	-1193.216	590.911	1429.412	12.9	12.9	25.9
S143-S144	-257.433	-222.390	-363.114	10.7	10.7	21.5
S143-S145	730.761	-621.434	-1371.740	12.5	12.5	25.0
S143-S722	-1828.601	152.987	753.201	13.0	13.0	26.0
S143-S735	1081.496	-1110.843	-2401.293	14.3	14.3	28.6
S144-S722	-1571.171	375.361	1116.325	12.9	12.9	25.9
S145-S722	-2559.364	774.430	2124.933	15.1	15.1	30.2
S145-S735	350.735	-489.408	-1029.556	11.8	11.8	23.6
S147-S148	1002.938	-439.402	-1096.010	12.3	12.3	24.6
S147-S700	1069.092	-356.465	-953.715	12.2	12.2	24.4
S147-S735	395.795	-162.087	-409.378	10.9	10.9	21.8
S148-S149	3412.067	-1820.571	-4355.260	18.7	18.7	37.5
S148-S700	66.156	82.945	142.291	10.3	10.3	20.5
S148-S735	-607.143	277.316	686.631	11.4	11.4	22.9
S150-S152	302.789	-272.079	-601.529	11.1	11.1	22.2
S150-S153	858.841	-786.527	-1731.905	13.1	13.1	26.3
S150-S156	1527.721	-1389.084	-3063.818	15.5	15.5	31.1
S150-S785	1088.178	-979.704	-2164.422	13.9	13.9	27.8
S150-S151	246.395	-270.024	-582.456	11.0	11.0	22.1
S151-S152	56.395	-2.058	-19.079	10.1	10.1	20.2
S151-S153	612.446	-516.505	-1149.455	12.1	12.1	24.2
S151-S156	1281.328	-1119.053	-2481.377	14.5	14.5	29.0
S151-S785	841.784	-709.679	-1581.970	12.9	12.9	25.8
S152-S153	556.051	-514.448	-1130.375	12.0	12.0	24.1
S152-S156	1224.935	-1116.998	-2462.298	14.5	14.5	28.9
S152-S785	785.389	-707.623	-1562.890	12.8	12.8	25.7
S153-S156	668.882	-602.553	-1331.922	12.4	12.4	24.8
S153-S158	1636.141	-1288.908	-2902.278	15.4	15.4	30.7
S153-S159	1984.548	-1440.486	-3288.635	16.2	16.2	32.3
S153-S163	3936.443	-3070.479	-6929.975	22.8	22.8	45.6
S153-S785	229.331	-193.178	-432.513	10.8	10.8	21.6
S153-S793	1348.262	-1153.900	-2571.626	14.7	14.7	29.4
S156-S785	-439.545	409.375	899.407	11.6	11.6	23.2
S158-S785	-1406.809	1095.732	2469.767	14.6	14.6	29.1
S158-S159	348.406	-151.578	-386.357	10.8	10.8	21.6
S158-S163	2300.302	-1781.580	-4027.692	17.5	17.5	34.9
S158-S793	-287.879	135.006	330.652	10.7	10.7	21.4
S159-S160	1043.857	-760.986	-1731.259	13.2	13.2	26.5
S159-S163	1951.895	-1629.993	-3641.340	16.7	16.7	33.3
S159-S785	-1755.216	1247.309	2856.122	15.4	15.4	30.7

S159-S793	-636.285	286.585	717.009	11.5	11.5	23.0
S159-S804	1117.481	-860.126	-1943.520	13.6	13.6	27.2
S159-S901	1870.965	-1707.649	-3775.948	16.8	16.8	33.6
S160-S163	908.038	-869.029	-1910.072	13.4	13.4	26.9
S160-S793	-1680.139	1047.564	2448.269	14.7	14.7	29.4
S160-S804	73.623	-99.147	-212.258	10.4	10.4	20.7
S160-S901	827.108	-946.671	-2044.686	13.6	13.6	27.2
S162-S163	18.950	47.052	94.134	10.2	10.2	20.3
S162-S164	1145.180	-957.318	-2141.423	13.9	13.9	27.8
S162-S901	-61.980	-30.588	-40.484	10.1	10.1	20.2
S163-S785	-3707.112	2877.304	6497.461	22.0	22.0	44.0
S163-S164	1126.227	-1004.368	-2235.557	14.0	14.0	28.1
S163-S793	-2588.181	1916.579	4358.349	18.1	18.1	36.3
S163-S804	-834.415	769.883	1697.810	13.1	13.1	26.1
S163-S901	-80.933	-77.648	-134.614	10.3	10.3	20.5
S164-S901	-1207.159	926.718	2100.940	13.9	13.9	27.8
S165-S837	-97.389	44.933	113.976	10.2	10.2	20.5
S165-S831	-1030.957	757.078	1741.664	13.2	13.2	26.5
S170-S172	1337.751	-810.449	-1917.229	13.7	13.7	27.4
S170-S173	2404.474	-1555.223	-3649.220	17.0	17.0	33.9
S173-S876	1905.221	-1225.113	-2876.995	15.5	15.5	31.0
S318-S704	-2653.537	1229.937	3016.024	16.3	16.3	32.6
S361-S747	-3031.013	853.288	2405.320	15.9	15.9	31.9
S700-S735	-673.296	194.379	544.336	11.3	11.3	22.7
S722-S735	2910.098	-1263.838	-3154.490	16.7	16.7	33.4
S785-S793	1118.931	-960.724	-2139.113	13.9	13.9	27.8
S793-S804	1753.763	-1146.708	-2660.529	15.1	15.1	30.2
S793-S901	2507.248	-1994.232	-4492.957	18.3	18.3	36.6
S804-S901	753.484	-847.522	-1832.428	13.2	13.2	26.5
S831-S837	933.568	-712.145	-1627.688	13.0	13.0	26.0

Baselines which were rejected by the statistical test are marked.

2. National Control Points Input (Plane Coord. and Std.Dev.)

Point	N [m]	E [m]	ell.H [m]	sN [mm]	sE [mm]	sH [mm]
C004	2988409.275	359941.754	-21.718	0.0	0.0	0.0
C009	2979768.749	365576.419	-20.300	0.0	0.0	0.0
C076	2971151.093	370563.797	-23.454	0.0	0.0	0.0
C077	2968649.554	374414.541	-21.029	0.0	0.0	0.0
C710	2978964.859	364756.990	-21.527	0.0	0.0	0.0
L225	2954396.436	384510.071	-23.360	0.0	0.0	0.0

L326	2955881.820	374471.774	-22.373	0.0	0.0	0.0
M017	3046608.393	328930.870	-23.643	0.0	0.0	0.0
S003	2995367.480	356152.345	-20.844	0.0	0.0	0.0
S116	3017019.460	346007.355	-22.874	0.0	0.0	0.0
S126	2995654.101	356523.860	-19.709	0.0	0.0	0.0
S159	3005183.794	352674.422	-22.998	0.0	0.0	0.0

Coordinates which were not considered in the adjustment are in brackets.

3. Adjusted Baselines in WGS84 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
1001-S145	45.047	327.318	620.176	11.4	11.4	22.8
1001-S722	-2514.317	1101.743	2745.113	12.4	12.4	24.8
1001-S735	395.782	-162.090	-409.380	11.4	11.4	22.8
1001-S143	-685.715	948.754	1991.912	11.7	11.7	23.5
1002-S141	-1460.323	639.027	1586.615	13.3	13.3	26.6
1002-S143	2639.337	-409.637	-1443.917	12.2	12.2	24.5
1002-S144	2381.904	-632.025	-1807.033	12.9	12.9	25.8
1002-S722	810.735	-256.648	-690.715	11.7	11.7	23.4
C004-S107	-3633.042	2048.680	4918.560	9.4	9.4	18.4
C004-S127	1340.426	-980.938	-2259.577	10.4	10.4	20.8
C004-S170	-1373.361	753.976	1821.472	12.7	12.7	25.4
C004-S172	-35.607	-56.480	-95.759	11.6	11.6	23.3
C004-S173	1031.099	-801.218	-1827.731	11.0	11.0	22.0
C009-C012	-880.526	-301.448	-362.486	8.5	8.5	16.9
C009-C016	5.297	-854.467	-1674.920	8.7	8.7	17.4
C009-C017	191.665	-973.078	-1955.388	8.9	8.9	17.7
C009-S127	-4854.847	2117.847	5386.262	10.7	10.7	21.2
C009-S173	-5164.174	2297.566	5818.109	11.2	11.3	22.3
C009-C710	-754.883	-471.582	-725.202	1.0	2.0	1.2
C009-S876	-3258.959	1072.449	2941.117	13.2	13.2	26.3
C012-S127	-3974.321	2419.295	5748.748	12.4	12.4	24.7
C012-S876	-2378.433	1373.897	3303.603	14.0	14.0	27.9
C012-C016	885.824	-553.019	-1312.434	10.5	10.5	20.9
C012-C017	1072.191	-671.630	-1592.902	10.6	10.6	21.2
C012-S173	-4283.648	2599.014	6180.595	12.8	12.8	25.6
C012-C710	125.644	-170.134	-362.716	8.5	8.5	16.9
C016-C017	186.368	-118.611	-280.468	9.4	9.4	18.8
C016-C023	2061.621	-1119.764	-2727.930	11.7	11.7	23.4
C016-C024	2513.198	-1274.125	-3146.596	11.7	11.8	23.5
C016-C075	4073.696	-2044.274	-5063.764	10.7	10.7	21.2

C016-C332	3433.083	-1680.768	-4185.241	12.1	12.1	24.2
C016-C710	-760.180	382.885	949.718	8.7	8.8	17.4
C017-C023	1875.253	-1001.153	-2447.463	11.6	11.6	23.2
C017-C024	2326.830	-1155.515	-2866.128	11.7	11.7	23.3
C017-C075	3887.328	-1925.663	-4783.296	10.7	10.7	21.2
C017-C332	3246.716	-1562.158	-3904.773	12.0	12.0	24.0
C017-C710	-946.548	501.496	1230.186	8.9	9.0	17.7
C023-C024	451.577	-154.362	-418.666	11.1	11.1	22.3
C023-C075	2012.075	-924.510	-2335.834	11.5	11.6	23.0
C023-C332	1371.463	-561.005	-1457.311	11.8	11.8	23.5
C024-C075	1560.498	-770.149	-1917.168	11.4	11.4	22.8
C024-C332	919.886	-406.643	-1038.645	11.5	11.5	23.1
C029-C075	118.094	-186.928	-394.644	10.7	10.7	21.4
C029-C076	1588.973	-447.808	-1297.254	10.5	10.5	20.9
C029-C077	5580.104	-1031.564	-3493.668	10.8	11.1	21.4
C029-C322	-522.504	176.568	483.886	11.5	11.5	23.0
C029-L361	3926.553	-2652.792	-6231.655	13.5	13.5	26.9
C044-L008	703.557	-593.066	-1352.969	12.2	12.2	24.5
C044-C076	-3386.256	2630.370	6050.504	11.7	11.8	23.4
C044-C077	604.874	2046.614	3854.089	11.6	11.8	23.1
C044-L103	876.433	-1037.183	-2271.223	12.1	12.2	24.2
C044-L361	-1048.677	425.386	1116.102	11.9	11.9	23.8
C075-C332	-640.612	363.506	878.523	11.3	11.3	22.5
C075-C076	1470.880	-260.881	-902.610	8.8	8.8	17.6
C075-C077	5462.010	-844.637	-3099.024	9.5	10.0	18.6
C075-C322	-640.598	363.496	878.530	11.2	11.2	22.4
C075-L361	3808.459	-2465.864	-5837.011	12.7	12.7	25.3
C076-L008	4089.814	-3223.437	-7403.472	12.0	12.1	24.0
C076-C077	3991.130	-583.756	-2196.414	2.9	4.4	4.4
C076-L103	4262.690	-3667.553	-8321.727	10.8	10.8	21.3
C076-C322	-2111.477	624.376	1781.139	10.9	10.9	21.8
C076-L361	2337.580	-2204.984	-4934.402	10.4	10.5	20.8
C077-L008	98.683	-2639.680	-5207.058	11.9	12.2	23.7
C077-L103	271.559	-3083.797	-6125.312	10.4	11.0	20.6
C077-L110	862.441	-5046.138	-10140.480	10.8	12.1	20.7
C077-L111	878.316	-5232.045	-10510.359	10.7	12.1	20.6
C077-L225	11002.621	-4929.989	-12642.786	9.2	9.7	16.3
C077-L227	865.449	-5629.628	-11289.489	11.7	13.2	22.4
C077-C322	-6102.608	1208.132	3977.554	11.2	11.6	22.3
C077-L326	956.672	-5674.202	-11400.520	7.8	12.2	12.3
C077-L361	-1653.551	-1621.228	-2737.987	10.4	10.7	20.7
C322-L361	4449.057	-2829.360	-6715.541	13.8	13.8	27.6

L007-L103	615.222	-822.921	-1779.346	11.7	11.7	23.4
L007-L104	741.105	-1141.094	-2438.096	12.0	12.0	24.0
L007-L106	1054.379	-1758.303	-3733.712	12.2	12.2	24.3
L007-L107	956.299	-1797.452	-3783.613	11.8	11.8	23.5
L007-L314	849.132	-1867.306	-3889.606	11.8	11.8	23.6
L008-L103	172.876	-444.116	-918.254	11.8	11.8	23.5
L008-L361	-1752.234	1018.453	2469.071	12.5	12.5	24.9
L103-L104	125.883	-318.173	-658.750	10.2	10.3	20.5
L103-L106	439.157	-935.382	-1954.366	10.4	10.5	20.8
L103-L107	341.077	-974.531	-2004.268	9.6	9.7	19.2
L103-L314	233.910	-1044.385	-2110.261	9.7	9.7	19.3
L103-L361	-1925.110	1462.569	3387.325	12.0	12.1	24.0
L104-L107	215.194	-656.358	-1345.517	10.1	10.1	20.1
L104-L106	313.274	-617.209	-1295.616	10.5	10.5	21.0
L104-L314	108.027	-726.211	-1451.510	10.1	10.1	20.2
L106-L107	-98.080	-39.149	-49.902	9.6	9.6	19.1
L106-L314	-205.247	-109.003	-155.895	9.6	9.6	19.2
L107-L110	249.805	-987.811	-2010.900	10.2	10.2	20.3
L107-L111	265.680	-1173.718	-2380.779	10.3	10.3	20.5
L107-L108	38.950	-281.301	-562.507	10.3	10.3	20.6
L107-L314	-107.167	-69.854	-105.993	8.4	8.4	16.8
L108-L110	210.855	-706.510	-1448.393	10.9	10.9	21.7
L108-L111	226.730	-892.417	-1818.272	11.0	11.0	22.0
L108-L314	-146.116	211.447	456.514	10.2	10.3	20.5
L110-L111	15.875	-185.907	-369.879	9.3	9.3	18.5
L110-L227	3.008	-583.490	-1149.009	10.9	11.0	21.9
L110-L225	10140.179	116.149	-2502.306	11.7	14.3	21.6
L110-L314	-356.972	917.957	1904.907	10.1	10.2	20.2
L110-L326	94.231	-628.063	-1260.040	9.8	10.6	19.3
L111-L227	-12.867	-397.583	-779.130	10.8	10.8	21.6
L111-L225	10124.304	302.056	-2132.427	11.6	14.3	21.4
L111-L314	-372.847	1103.864	2274.786	10.3	10.3	20.5
L111-L326	78.355	-442.156	-890.161	9.7	10.5	19.1
L225-L227	-10137.171	-699.639	1353.297	12.1	15.1	22.4
L225-L326	-10045.949	-744.213	1242.266	7.8	14.6	10.3
L227-L326	91.223	-44.574	-111.031	10.3	10.8	20.4
M003-M118	-528.978	933.774	1908.608	10.9	10.9	21.8
M003-M721	-1114.748	855.115	1902.941	10.6	10.6	21.1
M003-M731	329.669	-345.592	-738.868	10.1	10.1	20.2
M003-M115	-1093.414	1317.359	2775.390	10.9	10.9	21.8
M003-M132	-87.952	89.895	192.246	9.8	9.8	19.6
M005-M106	-1237.810	336.682	943.347	10.9	10.9	21.8

M005-M709	-791.016	56.961	303.590	10.6	10.6	21.2
M005-M721	1463.163	-1023.209	-2301.911	11.1	11.1	22.2
M005-M017	-606.729	544.263	1183.033	10.8	10.8	21.5
M005-M115	1484.497	-560.965	-1429.461	10.9	10.9	21.7
M010-M016	677.914	555.916	895.115	9.1	9.1	18.2
M010-M120	-346.721	412.915	873.251	9.9	9.9	19.8
M010-M126	1609.689	-1283.213	-2845.676	12.0	12.0	24.0
M010-M129	3895.549	-1893.622	-4567.583	12.9	12.9	25.8
M010-M132	-842.590	888.152	1901.576	9.9	9.9	19.8
M010-M341	754.427	-669.163	-1461.429	11.0	11.0	22.1
M010-M356	3587.442	-1862.263	-4435.459	12.4	12.4	24.8
M010-M731	-424.969	452.666	970.462	9.5	9.5	18.9
M010-M745	916.209	-1153.191	-2425.545	11.9	11.9	23.8
M016-M731	-1102.883	-103.250	75.347	9.5	9.5	18.9
M016-M120	-1024.635	-143.001	-21.865	9.9	9.9	19.8
M016-M126	931.775	-1839.129	-3740.791	12.2	12.2	24.5
M016-M129	3217.635	-2449.538	-5462.698	13.1	13.1	26.2
M016-M132	-1520.504	332.236	1006.461	9.9	9.9	19.7
M016-M341	76.513	-1225.078	-2356.545	11.2	11.2	22.4
M016-M356	2909.529	-2418.178	-5330.574	12.6	12.6	25.2
M016-M745	238.295	-1709.106	-3320.660	12.2	12.2	24.3
M017-M106	-631.082	-207.581	-239.686	10.7	10.7	21.3
M017-M115	2091.225	-1105.228	-2612.495	11.0	11.0	22.0
M017-M709	-184.287	-487.302	-879.443	10.6	10.6	21.2
M017-M721	2069.892	-1567.472	-3484.944	11.3	11.3	22.5
M106-M115	2722.307	-897.647	-2372.808	11.3	11.3	22.6
M106-M709	446.795	-279.721	-639.757	10.7	10.7	21.4
M106-M721	2700.973	-1359.891	-3245.258	11.5	11.5	23.0
M115-M118	564.437	-383.586	-866.782	10.4	10.4	20.8
M115-M132	1005.462	-1227.465	-2583.144	10.3	10.3	20.6
M115-M709	-2275.512	617.926	1733.052	11.0	11.0	22.0
M115-M721	-21.333	-462.244	-872.450	9.0	9.0	18.0
M115-M731	1423.084	-1662.951	-3514.258	10.6	10.6	21.2
M118-M731	858.647	-1279.365	-2647.476	10.7	10.7	21.4
M118-M132	441.026	-843.879	-1716.362	10.4	10.4	20.7
M118-M721	-585.770	-78.658	-5.668	10.1	10.1	20.2
M120-M341	1101.148	-1082.078	-2334.680	11.4	11.4	22.8
M120-M731	-78.247	39.750	97.211	9.4	9.4	18.8
M120-M132	-495.869	475.237	1028.326	9.9	9.9	19.8
M126-M129	2285.860	-610.409	-1721.908	12.5	12.5	25.0
M126-M356	1977.753	-579.049	-1589.783	12.2	12.2	24.3
M126-M745	-693.481	130.023	420.131	11.5	11.5	23.1

M129-M356	-308.107	31.360	132.124	11.6	11.6	23.2
M129-M745	-2979.341	740.432	2142.039	12.7	12.7	25.5
M130-M131	642.602	-381.188	-888.971	12.9	12.9	25.8
M130-S140	1152.758	-649.738	-1527.872	14.1	14.1	28.2
M130-M356	-1211.754	366.516	1000.399	14.4	14.4	28.7
M131-M356	-1854.356	747.704	1889.370	14.9	14.9	29.8
M131-S140	510.157	-268.550	-638.901	13.4	13.4	26.8
M132-M341	1597.017	-1557.314	-3363.006	11.4	11.4	22.8
M132-M721	-1026.796	765.221	1710.695	10.0	10.0	19.9
M132-M731	417.621	-435.486	-931.114	8.4	8.4	16.8
M341-M731	-1179.396	1121.828	2431.891	11.1	11.1	22.1
M356-M745	-2671.234	709.072	2009.914	12.4	12.4	24.8
M709-M721	2254.179	-1080.170	-2605.501	11.2	11.2	22.5
M721-M731	1444.417	-1200.707	-2641.809	10.3	10.3	20.6
S002-S103	905.283	-1014.199	-2195.122	10.8	10.8	21.5
S002-S104	1327.591	-1400.588	-3050.472	10.9	10.9	21.7
S002-S126	2008.081	-1572.448	-3554.556	9.0	9.0	17.9
S002-S162	-552.955	520.589	1151.080	10.4	10.5	20.9
S002-S163	-534.002	567.639	1245.215	9.4	9.5	18.8
S002-S164	592.217	-436.721	-990.347	9.4	9.4	18.7
S002-S003	1660.299	-1751.100	-3814.112	9.0	9.1	17.9
S002-S901	-614.934	489.993	1110.599	9.6	9.6	19.1
S003-S103	-755.016	736.901	1618.990	9.4	9.4	18.7
S003-S104	-332.708	350.512	763.641	9.0	9.1	18.0
S003-S107	616.050	-557.762	-1241.497	8.6	8.6	17.2
S003-S126	347.782	178.651	259.556	0.4	0.8	0.5
S003-S164	-1068.082	1314.378	2823.765	8.8	8.8	17.5
S003-S165	973.112	-780.143	-1765.421	9.2	9.2	18.4
S003-S831	-57.845	-23.064	-23.757	8.5	8.5	17.0
S003-S837	875.723	-735.210	-1651.445	9.1	9.1	18.2
S103-S104	422.308	-386.389	-855.350	10.6	10.6	21.2
S103-S126	1102.798	-558.249	-1359.434	9.3	9.3	18.7
S103-S164	-313.066	577.478	1204.775	10.4	10.4	20.8
S104-S126	680.490	-171.861	-504.084	9.0	9.0	18.0
S104-S164	-735.374	963.866	2060.124	10.5	10.5	21.0
S107-S126	-268.268	736.413	1501.053	8.6	8.6	17.2
S107-S165	357.062	-222.381	-523.924	10.0	10.0	19.9
S107-S837	259.673	-177.448	-409.948	9.9	9.9	19.8
S107-S831	-673.895	534.698	1217.739	10.0	10.0	20.1
S112-S114	169.049	-232.885	-489.957	10.1	10.1	20.1
S112-S115	195.448	-486.641	-984.649	10.3	10.3	20.5
S112-S149	2694.458	-791.932	-2199.073	11.7	11.7	23.4

S112-S116	1078.677	-658.121	-1535.676	10.5	10.5	20.9
S112-S133	-971.486	1248.134	2642.009	11.5	11.5	23.1
S112-S147	-1720.549	1468.027	3252.204	11.1	11.1	22.2
S112-S148	-717.611	1028.624	2156.195	9.4	9.4	18.9
S112-S700	-651.457	1111.563	2298.489	10.6	10.6	21.2
S112-S735	-1324.754	1305.940	2842.826	10.6	10.6	21.2
S114-S115	26.399	-253.756	-494.692	10.4	10.4	20.8
S114-S149	2525.409	-559.047	-1709.116	11.9	11.9	23.8
S114-S116	909.628	-425.236	-1045.719	10.7	10.7	21.4
S114-S148	-886.659	1261.509	2646.151	11.2	11.2	22.3
S115-S116	883.229	-171.480	-551.027	10.7	10.7	21.3
S115-S148	-913.058	1515.265	3140.843	11.3	11.3	22.6
S115-S149	2499.010	-305.291	-1214.424	11.9	11.9	23.8
S116-S118	1897.262	-316.906	-1086.465	11.0	11.0	21.9
S116-S121	2473.926	-965.012	-2481.840	10.1	10.1	20.1
S116-S122	2447.097	-1022.064	-2582.772	10.1	10.1	20.1
S116-S148	-1796.288	1686.745	3691.870	11.4	11.4	22.8
S116-S149	1615.781	-133.811	-663.397	11.7	11.7	23.4
S116-S361	2127.471	-733.763	-1947.478	10.9	10.9	21.8
S116-S747	-903.543	119.523	457.844	11.4	11.4	22.8
S118-S121	576.664	-648.106	-1395.375	10.4	10.4	20.8
S118-S122	549.835	-705.158	-1496.307	10.4	10.4	20.9
S118-S361	230.209	-416.857	-861.013	10.7	10.7	21.4
S118-S747	-2800.805	436.429	1544.309	12.1	12.1	24.3
S121-S123	1367.913	-769.839	-1825.191	10.7	10.7	21.4
S121-S134	1820.519	-920.531	-2231.432	10.8	10.8	21.6
S121-S122	-26.829	-57.052	-100.932	8.7	8.7	17.4
S121-S150	2135.526	-1251.497	-2951.559	10.1	10.1	20.2
S121-S151	2381.922	-1521.526	-3534.014	10.3	10.3	20.5
S121-S361	-346.455	231.250	534.362	10.0	10.0	20.0
S121-S747	-3377.469	1084.536	2939.684	11.8	11.8	23.5
S122-S123	1394.742	-712.787	-1724.259	10.7	10.7	21.4
S122-S134	1847.348	-863.479	-2130.500	10.8	10.8	21.5
S122-S150	2162.356	-1194.445	-2850.627	10.1	10.1	20.2
S122-S361	-319.625	288.301	635.294	10.0	10.0	20.1
S122-S747	-3350.639	1141.588	3040.616	11.8	11.8	23.6
S122-S151	2408.751	-1464.474	-3433.082	10.3	10.3	20.4
S123-S134	452.606	-150.692	-406.241	10.5	10.5	21.0
S123-S150	767.613	-481.658	-1126.368	10.2	10.2	20.5
S123-S151	1014.008	-751.687	-1708.823	10.5	10.5	20.9
S126-S837	527.941	-913.862	-1911.001	9.1	9.1	18.2
S126-S164	-1415.864	1135.727	2564.209	8.8	8.8	17.4

S126-S165	625.330	-958.794	-2024.977	9.2	9.2	18.4
S126-S831	-405.627	-201.715	-283.314	8.5	8.5	17.0
S127-S172	-1376.033	924.458	2163.818	12.9	12.9	25.8
S127-S876	1595.888	-1045.398	-2445.145	13.6	13.6	27.1
S127-S170	-2713.787	1734.914	4081.049	13.6	13.6	27.2
S127-S173	-309.327	179.720	431.846	11.1	11.1	22.3
S133-S147	-749.063	219.894	610.195	10.8	10.8	21.6
S133-S700	320.029	-136.571	-343.521	10.5	10.5	20.9
S133-S735	-353.268	57.806	200.817	10.4	10.4	20.7
S134-S150	315.007	-330.966	-720.127	10.0	10.0	20.1
S134-S151	561.402	-600.995	-1302.582	10.3	10.3	20.6
S136-S141	1491.248	-827.962	-1957.854	12.4	12.4	24.7
S136-S318	2951.568	-1466.987	-3544.466	14.1	14.1	28.1
S136-S140	-86.304	114.941	239.277	11.2	11.2	22.5
S136-S704	298.033	-237.053	-528.441	11.4	11.4	22.9
S140-S141	1577.553	-942.903	-2197.131	12.1	12.1	24.2
S140-S318	3037.873	-1581.929	-3783.743	14.1	14.1	28.1
S140-S704	384.337	-351.994	-767.718	11.5	11.5	23.0
S141-S318	1460.320	-639.025	-1586.612	13.6	13.6	27.2
S141-S722	2271.057	-895.675	-2277.331	12.9	12.9	25.8
S141-S143	4099.659	-1048.664	-3030.533	13.3	13.3	26.4
S141-S144	3842.227	-1271.052	-3393.649	14.1	14.1	28.1
S141-S704	-1193.215	590.909	1429.414	12.2	12.2	24.4
S143-S144	-257.433	-222.388	-363.116	11.5	11.5	23.0
S143-S145	730.762	-621.435	-1371.735	11.6	11.6	23.1
S143-S722	-1828.602	152.989	753.202	10.2	10.2	20.5
S143-S735	1081.497	-1110.843	-2401.291	11.8	11.8	23.5
S144-S722	-1571.169	375.377	1116.318	11.9	11.9	23.7
S145-S722	-2559.364	774.425	2124.937	12.3	12.3	24.6
S145-S735	350.735	-489.408	-1029.556	11.6	11.6	23.3
S147-S148	1002.938	-439.403	-1096.010	10.5	10.5	21.1
S147-S700	1069.092	-356.465	-953.715	10.3	10.3	20.6
S147-S735	395.794	-162.088	-409.378	10.1	10.1	20.1
S148-S149	3412.069	-1820.556	-4355.267	12.6	12.6	25.1
S148-S700	66.154	82.939	142.294	9.9	9.9	19.8
S148-S735	-607.144	277.315	686.632	10.0	10.0	20.1
S150-S152	302.790	-272.086	-601.532	9.7	9.7	19.5
S150-S153	858.844	-786.536	-1731.909	9.5	9.5	19.0
S150-S156	1527.724	-1389.086	-3063.829	11.0	11.0	22.0
S150-S785	1088.178	-979.712	-2164.423	9.6	9.6	19.2
S150-S151	246.395	-270.029	-582.455	8.4	8.4	16.9
S151-S152	56.395	-2.057	-19.077	9.4	9.4	18.9

S151-S153	612.449	-516.507	-1149.455	9.3	9.3	18.5
S151-S156	1281.329	-1119.057	-2481.374	10.8	10.8	21.5
S151-S785	841.783	-709.684	-1581.968	9.4	9.4	18.8
S152-S153	556.054	-514.450	-1130.377	9.9	9.9	19.8
S152-S156	1224.934	-1117.000	-2462.297	11.2	11.2	22.4
S152-S785	785.388	-707.627	-1562.891	10.0	10.0	20.1
S153-S156	668.880	-602.550	-1331.920	10.6	10.6	21.2
S153-S158	1636.144	-1288.913	-2902.280	11.3	11.3	22.6
S153-S159	1984.554	-1440.500	-3288.637	9.8	9.8	19.5
S153-S163	3936.442	-3070.484	-6929.977	11.7	11.7	23.3
S153-S785	229.334	-193.177	-432.514	8.8	8.8	17.6
S153-S793	1348.265	-1153.905	-2571.629	10.7	10.7	21.4
S156-S785	-439.546	409.373	899.406	10.5	10.5	21.0
S158-S785	-1406.810	1095.736	2469.767	11.2	11.2	22.3
S158-S159	348.410	-151.587	-386.356	9.9	9.9	19.8
S158-S163	2300.298	-1781.571	-4027.696	11.5	11.5	22.9
S158-S793	-287.879	135.008	330.651	10.3	10.3	20.7
S159-S160	1043.852	-760.967	-1731.265	10.3	10.3	20.5
S159-S163	1951.889	-1629.984	-3641.340	8.5	8.6	17.0
S159-S785	-1755.219	1247.323	2856.123	9.7	9.7	19.3
S159-S793	-636.288	286.595	717.008	8.9	8.9	17.7
S159-S804	1117.475	-860.112	-1943.525	10.3	10.3	20.6
S159-S901	1870.957	-1707.630	-3775.956	9.1	9.2	18.2
S160-S163	908.036	-869.017	-1910.075	10.4	10.4	20.8
S160-S793	-1680.141	1047.562	2448.273	11.2	11.2	22.4
S160-S804	73.623	-99.146	-212.259	10.6	10.6	21.2
S160-S901	827.105	-946.663	-2044.690	10.7	10.7	21.4
S162-S163	18.952	47.050	94.135	9.8	9.8	19.6
S162-S164	1145.172	-957.310	-2141.427	10.9	10.9	21.7
S162-S901	-61.979	-30.596	-40.481	9.9	9.9	19.7
S163-S785	-3707.108	2877.307	6497.463	11.6	11.6	23.1
S163-S164	1126.219	-1004.360	-2235.562	9.8	9.8	19.5
S163-S793	-2588.177	1916.579	4358.347	10.2	10.2	20.3
S163-S804	-834.413	769.871	1697.815	10.4	10.4	20.7
S163-S901	-80.932	-77.646	-134.616	8.6	8.6	17.1
S164-S901	-1207.151	926.714	2100.946	9.9	10.0	19.8
S165-S837	-97.389	44.933	113.976	10.0	10.0	20.0
S165-S831	-1030.957	757.079	1741.663	10.5	10.5	20.9
S170-S172	1337.754	-810.456	-1917.231	13.8	13.8	27.5
S170-S173	2404.460	-1555.195	-3649.203	14.1	14.1	28.2
S173-S876	1905.215	-1225.118	-2876.991	13.9	13.9	27.8
S318-S704	-2653.535	1229.934	3016.025	13.9	13.9	27.9

S361-S747	-3031.014	853.286	2405.322	12.1	12.1	24.3
S700-S735	-673.297	194.377	544.337	9.9	9.9	19.7
S722-S735	2910.099	-1263.832	-3154.493	12.4	12.4	24.8
S785-S793	1118.931	-960.728	-2139.115	10.6	10.6	21.1
S793-S804	1753.764	-1146.707	-2660.532	11.3	11.3	22.5
S793-S901	2507.246	-1994.225	-4492.963	10.8	10.8	21.5
S804-S901	753.482	-847.517	-1832.431	10.6	10.6	21.3
S831-S837	933.568	-712.146	-1627.687	10.4	10.4	20.7

4. Baseline Corrections (Corrections and Normalized Corr.)

Baseline	vN [mm]	vE [mm]	vH [mm]	vN/sN	vE/sE	vH/sH
1001-S145	-2.4	-1.7	1.0	-0.1	-0.2	0.1
1001-S722	0.8	-1.1	6.0	0.0	-0.1	0.4
1001-S735	0.1	0.6	-0.6	0.0	0.0	-0.0
1001-S143	2.9	2.5	-4.9	0.1	0.2	-0.3
1002-S141	-1.4	-0.5	0.7	-0.1	-0.0	0.0
1002-S143	-0.8	0.8	3.6	-0.0	0.1	0.2
1002-S144	4.6	1.6	-11.0	0.2	0.1	-0.7
1002-S722	-1.3	-1.2	4.2	-0.1	-0.1	0.3
C004-S107	-11.6	12.6	-42.4	-0.7	1.3	-3.6
C004-S127	4.4	-3.3	18.5	0.2	-0.3	1.4
C004-S170	10.5	-3.2	-1.3	0.5	-0.3	-0.1
C004-S172	3.9	-1.7	3.0	0.2	-0.1	0.2
C004-S173	13.8	-9.3	4.0	0.7	-0.8	0.3
C009-C012	-0.2	-12.1	-6.1	-0.0	-1.4	-0.6
C009-C016	2.6	-16.8	2.0	0.2	-1.9	0.2
C009-C017	2.8	-10.7	3.0	0.2	-1.2	0.3
C009-S127	-16.1	-4.0	-3.2	-0.8	-0.4	-0.2
C009-S173	-21.9	4.0	-24.9	-1.1	0.4	-1.7
C009-C710	7.5	-40.9	-4.5	11.9	-43.0	-2.0
C009-S876	-5.9	-1.8	-12.9	-0.2	-0.1	-0.8
C012-S127	-15.1	10.8	-4.0	-0.7	0.9	-0.3
C012-S876	-5.0	12.7	-4.0	-0.2	0.9	-0.2
C012-C016	2.2	-1.4	1.1	0.1	-0.1	0.1
C012-C017	1.4	4.3	1.8	0.1	0.4	0.1
C012-S173	-19.5	18.5	-4.2	-0.8	1.4	-0.3
C012-C710	7.8	-24.6	-3.5	0.5	-2.9	-0.3
C016-C017	0.3	5.8	2.1	0.0	0.6	0.2
C016-C023	-0.4	-1.5	2.4	-0.0	-0.1	0.2
C016-C024	-0.9	-1.5	2.3	-0.0	-0.1	0.2
C016-C075	-0.8	6.8	6.2	-0.0	0.6	0.5

C016-C332	-1.2	-0.7	2.6	-0.1	-0.1	0.2
C016-C710	5.4	-23.6	-6.0	0.3	-2.7	-0.5
C017-C023	-0.1	13.2	6.1	-0.0	1.1	0.4
C017-C024	-0.5	13.2	6.3	-0.0	1.1	0.4
C017-C075	-1.3	22.7	12.3	-0.1	2.1	0.9
C017-C332	-0.7	14.3	6.2	-0.0	1.2	0.4
C017-C710	5.3	-30.8	-8.9	0.3	-3.5	-0.8
C023-C024	0.0	0.5	0.4	0.0	0.0	0.0
C023-C075	-0.5	9.1	6.2	-0.0	0.8	0.4
C023-C332	0.0	1.4	1.1	0.0	0.1	0.1
C024-C075	-1.0	8.7	6.3	-0.0	0.8	0.4
C024-C332	0.0	0.9	0.7	0.0	0.1	0.0
C029-C075	0.8	-5.2	-2.6	0.0	-0.5	-0.2
C029-C076	2.0	5.7	0.7	0.1	0.5	0.0
C029-C077	-4.5	1.2	3.3	-0.2	0.1	0.2
C029-C322	0.3	1.1	1.3	0.0	0.1	0.1
C029-L361	-4.5	-0.2	0.3	-0.2	-0.0	0.0
C044-L008	1.8	0.4	5.5	0.1	0.0	0.4
C044-C076	-3.3	-3.9	-30.3	-0.2	-0.3	-2.0
C044-C077	2.8	-3.3	3.1	0.1	-0.3	0.2
C044-L103	-9.5	2.2	0.4	-0.4	0.2	0.0
C044-L361	5.2	1.0	3.0	0.2	0.1	0.2
C075-C332	0.8	-7.7	-5.2	0.0	-0.7	-0.4
C075-C076	1.4	12.3	4.5	0.1	1.4	0.4
C075-C077	-2.6	11.8	15.2	-0.2	1.2	1.2
C075-C322	-0.5	6.1	4.2	-0.0	0.5	0.3
C075-L361	-4.1	9.0	10.7	-0.2	0.7	0.7
C076-L008	-7.6	2.5	14.8	-0.3	0.2	1.0
C076-C077	-9.1	-3.4	2.0	-2.5	-1.2	0.4
C076-L103	-3.1	-9.1	-4.7	-0.2	-0.8	-0.3
C076-C322	-2.1	-6.8	-0.6	-0.1	-0.6	-0.0
C076-L361	-11.7	-7.0	4.4	-0.6	-0.7	0.3
C077-L008	-1.5	4.4	4.5	-0.1	0.4	0.3
C077-L103	-4.5	4.4	12.2	-0.2	0.4	0.9
C077-L110	9.3	0.2	-30.5	0.5	0.0	-2.0
C077-L111	9.7	3.8	-26.4	0.5	0.4	-1.8
C077-L225	10.1	-22.4	-66.7	0.7	-2.4	-5.6
C077-L227	5.9	2.9	-23.8	0.3	0.2	-1.5
C077-C322	2.1	-6.2	-11.2	0.1	-0.5	-0.8
C077-L326	-4.7	12.5	-12.5	-0.5	1.6	-0.9
C077-L361	-1.9	-3.5	-0.5	-0.1	-0.3	-0.0
C322-L361	-3.8	3.4	6.6	-0.1	0.2	0.4

L007-L103	3.1	-0.2	-5.6	0.1	-0.0	-0.4
L007-L104	0.1	1.3	-2.7	0.0	0.1	-0.2
L007-L106	-0.3	0.3	-0.3	-0.0	0.0	-0.0
L007-L107	-3.6	-0.7	8.4	-0.2	-0.1	0.6
L007-L314	-1.0	-1.1	4.5	-0.0	-0.1	0.3
L008-L103	-1.3	2.8	12.9	-0.1	0.2	0.9
L008-L361	0.8	-0.3	-4.8	0.0	-0.0	-0.3
L103-L104	-1.3	4.2	-4.3	-0.1	0.4	-0.3
L103-L106	-3.2	-0.3	7.5	-0.2	-0.0	0.6
L103-L107	-6.6	-0.5	13.2	-0.4	-0.1	1.1
L103-L314	-3.8	-1.0	9.4	-0.2	-0.1	0.8
L103-L361	7.7	0.9	-11.8	0.3	0.1	-0.8
L104-L107	-1.6	3.1	-3.1	-0.1	0.3	-0.2
L104-L106	0.1	1.8	-2.8	0.0	0.2	-0.2
L104-L314	-0.0	1.2	-1.3	-0.0	0.1	-0.1
L106-L107	-2.3	1.4	1.6	-0.1	0.2	0.1
L106-L314	0.4	-0.3	0.7	0.0	-0.0	0.1
L107-L110	-5.2	1.9	10.3	-0.3	0.2	0.8
L107-L111	-2.8	0.4	3.5	-0.1	0.0	0.3
L107-L108	-2.6	1.0	2.1	-0.1	0.1	0.2
L107-L314	-1.9	0.9	0.7	-0.1	0.1	0.1
L108-L110	-2.4	0.8	8.1	-0.1	0.1	0.6
L108-L111	-1.6	0.3	-3.4	-0.1	0.0	-0.2
L108-L314	0.4	0.1	-1.7	0.0	0.0	-0.1
L110-L111	-1.4	0.4	5.1	-0.1	0.0	0.4
L110-L227	-2.6	0.1	7.2	-0.1	0.0	0.5
L110-L225	-2.0	-20.3	-35.8	-0.1	-1.7	-2.1
L110-L314	4.7	-0.8	-7.5	0.3	-0.1	-0.6
L110-L326	-3.7	7.0	10.2	-0.2	0.7	0.8
L111-L227	-0.2	0.9	-1.1	-0.0	0.1	-0.1
L111-L225	-0.1	-25.2	-39.6	-0.0	-2.2	-2.3
L111-L314	1.6	-0.2	-2.8	0.1	-0.0	-0.2
L111-L326	-4.1	5.9	12.3	-0.2	0.6	0.9
L225-L227	-2.7	23.1	52.6	-0.1	1.9	2.9
L225-L326	-13.3	33.8	50.4	-2.0	4.5	3.0
L227-L326	-1.7	4.9	10.0	-0.1	0.5	0.7
M003-M118	1.4	-0.2	-4.6	0.1	-0.0	-0.3
M003-M721	0.2	-1.1	5.2	0.0	-0.1	0.4
M003-M731	0.8	0.2	-3.6	0.0	0.0	-0.3
M003-M115	0.5	2.0	-10.0	0.0	0.2	-0.7
M003-M132	-1.9	-0.3	7.6	-0.1	-0.0	0.6
M005-M106	1.4	1.8	2.7	0.1	0.2	0.2

M005-M709	-3.1	3.7	8.2	-0.2	0.3	0.6
M005-M721	0.9	3.3	-13.2	0.0	0.3	-0.9
M005-M017	2.0	-3.2	-2.2	0.1	-0.3	-0.2
M005-M115	-0.4	-6.1	-0.5	-0.0	-0.6	-0.0
M010-M016	-2.4	7.6	7.8	-0.1	0.8	0.7
M010-M120	-0.1	-3.6	-4.9	-0.0	-0.4	-0.4
M010-M126	-0.6	-8.4	-15.5	-0.0	-0.7	-1.0
M010-M129	4.4	-6.3	-10.3	0.2	-0.5	-0.6
M010-M132	-4.2	10.5	8.5	-0.2	1.1	0.7
M010-M341	6.7	-8.2	-1.4	0.3	-0.7	-0.1
M010-M356	4.6	-4.1	-3.7	0.2	-0.3	-0.2
M010-M731	-4.3	8.0	12.0	-0.2	0.8	1.0
M010-M745	1.9	-5.7	-8.2	0.1	-0.5	-0.5
M016-M731	0.8	-2.7	-1.8	0.0	-0.3	-0.1
M016-M120	-0.2	-1.5	2.5	-0.0	-0.2	0.2
M016-M126	-2.9	7.4	8.0	-0.1	0.6	0.5
M016-M129	-3.5	9.6	8.2	-0.1	0.7	0.5
M016-M132	3.5	-5.1	-8.3	0.2	-0.5	-0.7
M016-M341	-3.1	1.6	-4.2	-0.1	0.1	-0.3
M016-M356	-0.6	8.9	11.3	-0.0	0.7	0.7
M016-M745	-1.7	8.4	10.3	-0.1	0.7	0.7
M017-M106	-0.2	0.4	0.1	-0.0	0.0	0.0
M017-M115	6.3	0.1	13.4	0.3	0.0	1.0
M017-M709	-1.3	-1.7	-8.7	-0.1	-0.2	-0.6
M017-M721	0.1	0.8	-8.5	0.0	0.1	-0.6
M106-M115	-0.4	1.8	4.7	-0.0	0.2	0.3
M106-M709	1.0	0.2	0.0	0.1	0.0	0.0
M106-M721	0.3	1.7	-0.2	0.0	0.1	-0.0
M115-M118	-0.0	-1.1	10.8	-0.0	-0.1	0.8
M115-M132	-1.2	3.3	-5.6	-0.1	0.3	-0.4
M115-M709	3.6	-2.3	-2.5	0.2	-0.2	-0.2
M115-M721	1.4	-0.6	-5.3	0.1	-0.1	-0.5
M115-M731	0.8	-2.5	7.3	0.0	-0.2	0.5
M118-M731	0.9	-1.4	-6.3	0.0	-0.1	-0.5
M118-M132	0.6	0.9	6.2	0.0	0.1	0.5
M118-M721	-0.1	-1.0	5.4	-0.0	-0.1	0.4
M120-M341	-3.2	1.1	-1.4	-0.2	0.1	-0.1
M120-M731	1.0	-1.1	-3.8	0.1	-0.1	-0.3
M120-M132	0.5	-4.6	3.7	0.0	-0.5	0.3
M126-M129	-0.8	-0.8	-2.1	-0.0	-0.1	-0.1
M126-M356	-0.8	-0.2	-2.7	-0.0	-0.0	-0.2
M126-M745	-0.6	-0.4	-1.6	-0.0	-0.0	-0.1

M129-M356	-0.3	0.4	-2.4	-0.0	0.0	-0.2
M129-M745	0.3	-0.1	1.0	0.0	-0.0	0.1
M130-M131	-1.9	-0.6	2.9	-0.1	-0.0	0.2
M130-S140	-0.2	1.4	-3.2	-0.0	0.1	-0.2
M130-M356	2.2	-0.6	-0.3	0.1	-0.0	-0.0
M131-M356	-3.5	-2.4	5.0	-0.1	-0.2	0.3
M131-S140	0.5	1.0	-0.6	0.0	0.1	-0.0
M132-M341	3.2	6.0	8.8	0.2	0.5	0.6
M132-M721	-1.1	-2.1	5.7	-0.1	-0.2	0.4
M132-M731	-3.3	0.2	5.1	-0.2	0.0	0.5
M341-M731	4.7	-3.1	-0.5	0.2	-0.3	-0.0
M356-M745	0.3	-0.5	1.4	0.0	-0.0	0.1
M709-M721	-2.0	1.7	-3.1	-0.1	0.1	-0.2
M721-M731	0.6	0.2	-9.4	0.0	0.0	-0.7
S002-S103	2.0	-0.2	-11.1	0.1	-0.0	-0.8
S002-S104	2.3	-0.2	-12.8	0.1	-0.0	-0.9
S002-S126	0.4	6.0	26.1	0.0	0.7	2.3
S002-S162	-1.9	-3.2	10.2	-0.1	-0.3	0.8
S002-S163	-4.7	1.6	14.3	-0.3	0.2	1.2
S002-S164	1.2	3.7	-2.1	0.1	0.4	-0.2
S002-S003	4.8	-9.3	-61.1	0.3	-1.0	-5.3
S002-S901	-0.4	-0.3	11.9	-0.0	-0.0	1.0
S003-S103	-2.3	9.0	51.4	-0.1	1.0	4.3
S003-S104	-2.5	9.0	49.9	-0.2	1.0	4.3
S003-S107	-2.3	6.1	45.9	-0.1	0.7	4.2
S003-S126	-3.9	15.6	87.7	-15.8	39.3	94.5
S003-S164	-2.4	13.4	55.0	-0.2	1.5	4.9
S003-S165	-3.0	6.8	44.1	-0.2	0.7	3.8
S003-S831	-2.8	6.8	42.9	-0.2	0.8	3.9
S003-S837	-3.2	7.0	44.1	-0.2	0.8	3.8
S103-S104	-0.0	-0.2	-0.4	-0.0	-0.0	-0.0
S103-S126	-1.4	6.1	36.8	-0.1	0.6	3.1
S103-S164	0.8	2.6	4.0	0.0	0.2	0.3
S104-S126	-1.7	6.2	38.3	-0.1	0.7	3.3
S104-S164	0.5	3.4	5.5	0.0	0.3	0.4
S107-S126	-4.7	9.0	40.8	-0.3	1.0	3.7
S107-S165	-0.6	0.7	-2.0	-0.0	0.1	-0.2
S107-S837	-0.7	0.6	-2.7	-0.0	0.1	-0.2
S107-S831	-0.7	0.8	-3.4	-0.0	0.1	-0.3
S112-S114	0.4	-4.2	1.5	0.0	-0.4	0.1
S112-S115	3.0	2.9	4.7	0.2	0.3	0.4
S112-S149	-1.5	-1.1	-0.6	-0.1	-0.1	-0.0

S112-S116	0.2	-0.5	1.0	0.0	-0.0	0.1
S112-S133	-1.0	-0.2	-2.4	-0.0	-0.0	-0.2
S112-S147	0.4	1.3	-0.2	0.0	0.1	-0.0
S112-S148	-1.5	0.5	-1.9	-0.1	0.1	-0.2
S112-S700	-0.9	2.6	-4.4	-0.0	0.2	-0.3
S112-S735	-1.1	0.5	-1.3	-0.1	0.0	-0.1
S114-S115	0.1	-2.7	-7.3	0.0	-0.3	-0.6
S114-S149	-3.1	-2.5	8.9	-0.1	-0.2	0.6
S114-S116	1.1	3.3	-1.6	0.1	0.3	-0.1
S114-S148	2.1	-5.0	9.4	0.1	-0.5	0.7
S115-S116	-0.9	-2.0	-4.3	-0.0	-0.2	-0.3
S115-S148	0.4	0.5	-2.0	0.0	0.0	-0.1
S115-S149	5.6	2.3	2.5	0.3	0.2	0.2
S116-S118	-2.7	-0.3	18.8	-0.1	-0.0	1.3
S116-S121	-7.4	-0.5	5.6	-0.4	-0.1	0.4
S116-S122	-7.9	3.3	3.4	-0.4	0.3	0.3
S116-S148	2.0	-1.9	-2.9	0.1	-0.2	-0.2
S116-S149	-1.4	-0.7	-0.5	-0.1	-0.1	-0.0
S116-S361	-7.0	1.4	-0.3	-0.3	0.1	-0.0
S116-S747	-5.1	1.4	3.2	-0.2	0.1	0.2
S118-S121	-4.7	-2.1	16.1	-0.2	-0.2	1.2
S118-S122	-2.7	4.1	-6.7	-0.1	0.4	-0.5
S118-S361	2.2	-0.4	11.1	0.1	-0.0	0.8
S118-S747	3.5	-2.5	-8.8	0.2	-0.2	-0.6
S121-S123	-2.4	-3.5	10.7	-0.1	-0.3	0.8
S121-S134	-4.5	-1.2	3.9	-0.2	-0.1	0.3
S121-S122	-3.0	-0.2	-0.4	-0.2	-0.0	-0.0
S121-S150	-6.8	0.1	18.8	-0.4	0.0	1.5
S121-S151	1.1	-1.2	8.4	0.1	-0.1	0.6
S121-S361	2.4	0.5	-7.2	0.1	0.0	-0.6
S121-S747	1.4	3.1	2.3	0.1	0.3	0.2
S122-S123	-5.8	3.3	-3.2	-0.3	0.3	-0.2
S122-S134	-3.6	2.4	-0.4	-0.2	0.2	-0.0
S122-S150	-6.2	2.7	3.0	-0.3	0.3	0.2
S122-S361	0.4	-1.5	-1.4	0.0	-0.2	-0.1
S122-S747	3.4	-1.4	-1.2	0.2	-0.1	-0.1
S122-S151	-5.3	4.1	-2.3	-0.3	0.4	-0.2
S123-S134	-0.4	0.0	1.0	-0.0	0.0	0.1
S123-S150	-7.0	-0.4	3.3	-0.4	-0.0	0.3
S123-S151	1.0	0.2	1.6	0.1	0.0	0.1
S126-S837	4.1	-8.2	-43.7	0.2	-0.9	-3.8
S126-S164	2.5	-3.4	-32.8	0.2	-0.4	-2.9

S126-S165	3.8	-8.4	-43.5	0.2	-0.9	-3.7
S126-S831	4.1	-8.2	-44.7	0.3	-1.0	-4.1
S127-S172	-1.4	1.3	-12.0	-0.1	0.1	-0.7
S127-S876	7.3	-2.8	8.8	0.3	-0.2	0.5
S127-S170	4.0	-3.0	-7.8	0.2	-0.2	-0.5
S127-S173	-10.2	1.8	14.1	-0.5	0.2	1.0
S133-S147	-1.5	-1.6	2.6	-0.1	-0.1	0.2
S133-S700	0.2	0.5	-2.6	0.0	0.0	-0.2
S133-S735	0.5	0.8	-0.9	0.0	0.1	-0.1
S134-S150	-9.0	0.9	2.6	-0.5	0.1	0.2
S134-S151	4.3	-0.2	0.6	0.2	-0.0	0.0
S136-S141	-0.2	-0.0	-1.4	-0.0	-0.0	-0.1
S136-S318	0.7	-1.0	-1.3	0.0	-0.1	-0.1
S136-S140	-0.3	0.4	1.8	-0.0	0.0	0.1
S136-S704	0.1	0.0	-0.6	0.0	0.0	-0.0
S140-S141	1.7	2.6	0.6	0.1	0.2	0.0
S140-S318	-0.5	3.6	3.9	-0.0	0.3	0.2
S140-S704	-0.8	-0.6	-2.9	-0.0	-0.1	-0.2
S141-S318	0.0	-0.8	0.4	0.0	-0.1	0.0
S141-S722	-2.4	0.4	1.0	-0.1	0.0	0.1
S141-S143	4.4	-0.6	-0.3	0.2	-0.0	-0.0
S141-S144	-2.6	4.3	-7.4	-0.1	0.3	-0.4
S141-S704	0.7	0.1	2.8	0.0	0.0	0.2
S143-S144	-1.1	0.5	-3.1	-0.1	0.0	-0.2
S143-S145	3.6	1.0	3.2	0.2	0.1	0.2
S143-S722	1.2	-0.3	-1.5	0.1	-0.0	-0.1
S143-S735	1.2	1.5	0.8	0.1	0.1	0.1
S144-S722	0.7	4.2	-16.9	0.0	0.4	-1.1
S145-S722	1.0	-1.3	6.4	0.0	-0.1	0.4
S145-S735	-0.2	-0.3	0.1	-0.0	-0.0	0.0
S147-S148	-0.4	-0.2	1.3	-0.0	-0.0	0.1
S147-S700	-0.5	-0.0	-0.1	-0.0	-0.0	-0.0
S147-S735	-0.4	-0.6	1.3	-0.0	-0.1	0.1
S148-S149	0.5	3.3	-16.9	0.0	0.3	-1.1
S148-S700	0.5	-3.3	6.9	0.0	-0.3	0.5
S148-S735	0.2	-0.7	0.9	0.0	-0.1	0.1
S150-S152	-5.9	-0.1	4.3	-0.3	-0.0	0.3
S150-S153	-7.4	2.3	6.2	-0.4	0.2	0.5
S150-S156	-10.8	2.2	-3.6	-0.5	0.2	-0.3
S150-S785	-4.6	-0.8	7.2	-0.3	-0.1	0.6
S150-S151	-1.2	-0.1	4.7	-0.1	-0.0	0.4
S151-S152	1.7	0.0	0.5	0.1	0.0	0.0

S151-S153	-0.8	2.4	2.5	-0.0	0.3	0.2
S151-S156	1.0	0.2	4.8	0.1	0.0	0.3
S151-S785	-1.2	-1.2	4.7	-0.1	-0.1	0.4
S152-S153	-2.6	2.3	1.5	-0.1	0.2	0.1
S152-S156	0.6	-1.2	2.7	0.0	-0.1	0.2
S152-S785	-2.7	-1.8	2.6	-0.1	-0.2	0.2
S153-S156	3.7	-1.9	-1.5	0.2	-0.2	-0.1
S153-S158	-4.9	2.1	3.2	-0.2	0.2	0.2
S153-S159	-8.6	3.7	12.0	-0.5	0.4	1.0
S153-S163	-3.8	-1.4	3.4	-0.2	-0.1	0.2
S153-S785	-0.4	3.1	-0.7	-0.0	0.4	-0.1
S153-S793	-5.4	2.2	3.0	-0.3	0.2	0.2
S156-S785	-1.8	-1.1	1.4	-0.1	-0.1	0.1
S158-S785	1.7	-0.7	-3.4	0.1	-0.1	-0.2
S158-S159	-3.4	2.1	8.9	-0.2	0.2	0.7
S158-S163	0.7	-2.7	-10.0	0.0	-0.2	-0.7
S158-S793	-0.3	0.4	-1.6	-0.0	0.0	-0.1
S159-S160	3.9	-2.2	-20.1	0.2	-0.2	-1.5
S159-S163	4.9	-5.0	-9.1	0.3	-0.6	-0.8
S159-S785	7.2	-1.2	-12.3	0.4	-0.1	-1.0
S159-S793	3.3	-1.8	-9.6	0.2	-0.2	-0.8
S159-S804	2.8	-3.6	-15.1	0.2	-0.3	-1.1
S159-S901	2.2	-5.7	-21.6	0.1	-0.6	-1.8
S160-S163	2.9	0.4	-12.5	0.1	0.0	-0.9
S160-S793	2.2	-1.9	3.9	0.1	-0.2	0.3
S160-S804	-0.2	0.4	-1.8	-0.0	0.0	-0.1
S160-S901	-0.2	-1.8	-8.7	-0.0	-0.2	-0.6
S162-S163	-0.5	2.1	3.2	-0.0	0.2	0.3
S162-S164	0.1	-6.9	-9.9	0.0	-0.6	-0.7
S162-S901	-0.9	-0.7	9.3	-0.1	-0.1	0.7
S163-S785	2.5	4.2	-1.2	0.1	0.4	-0.1
S163-S164	-0.4	-6.8	-9.9	-0.0	-0.7	-0.8
S163-S793	-1.6	3.8	0.4	-0.1	0.4	0.0
S163-S804	-0.6	0.1	12.7	-0.0	0.0	1.0
S163-S901	-0.2	1.7	-2.6	-0.0	0.2	-0.2
S164-S901	3.1	7.2	7.1	0.2	0.7	0.6
S165-S837	0.0	-0.1	0.3	0.0	-0.0	0.0
S165-S831	-0.3	-0.1	-1.2	-0.0	-0.0	-0.1
S170-S172	-5.8	1.9	5.9	-0.2	0.1	0.3
S170-S173	28.7	-10.7	-18.2	1.1	-0.8	-1.0
S173-S876	1.4	-6.7	4.7	0.1	-0.5	0.3
S318-S704	0.2	1.0	2.8	0.0	0.1	0.2

S361-S747	1.5	-1.3	3.1	0.1	-0.1	0.2
S700-S735	-0.1	-1.8	2.5	-0.0	-0.2	0.2
S722-S735	-0.5	1.6	-6.2	-0.0	0.1	-0.4
S785-S793	-4.1	-0.6	3.0	-0.2	-0.1	0.2
S793-S804	-2.4	0.8	-2.3	-0.1	0.1	-0.2
S793-S901	-2.6	-1.2	-9.1	-0.1	-0.1	-0.7
S804-S901	-0.2	-2.0	-6.0	-0.0	-0.2	-0.4
S831-S837	0.2	0.1	1.4	0.0	0.0	0.1

Baselines which were rejected by the statistical test are marked.

5. Adjusted Points in WGS84 (Cart. Coordinates and Residuals)

Point	X [m]	Y [m]	Z [m]	resX [mm]	resY [mm]	resZ [mm]
1001	732253.541	-5623403.709	2909369.236	-----	-----	-----
1002	728928.489	-5622045.318	2912805.065	-----	-----	-----
C004	750900.886	-5636528.568	2879266.686	0.0	0.0	0.0
C009	757096.160	-5639627.353	2871620.846	-0.0	0.0	0.0
C012	756215.634	-5639928.801	2871258.360	-----	-----	-----
C016	757101.457	-5640481.820	2869945.926	-----	-----	-----
C017	757287.825	-5640600.431	2869665.458	-----	-----	-----
C023	759163.078	-5641601.583	2867217.996	-----	-----	-----
C024	759614.655	-5641755.945	2866799.330	-----	-----	-----
C029	761057.059	-5642339.166	2865276.806	-----	-----	-----
C044	766032.289	-5645417.345	2857929.048	-----	-----	-----
C075	761175.153	-5642526.094	2864882.162	-----	-----	-----
C076	762646.033	-5642786.974	2863979.552	-0.0	0.0	0.0
C077	766637.163	-5643370.731	2861783.138	0.0	0.0	0.0
C322	760534.555	-5642162.598	2865760.692	-----	-----	-----
C332	760534.541	-5642162.588	2865760.685	-----	-----	-----
C710	756341.277	-5640098.935	2870895.644	0.0	-0.0	0.0
L007	766293.501	-5645631.606	2857437.171	-----	-----	-----
L008	766735.846	-5646010.411	2856576.080	-----	-----	-----
L103	766908.722	-5646454.527	2855657.826	-----	-----	-----
L104	767034.606	-5646772.701	2854999.075	-----	-----	-----
L106	767347.880	-5647389.909	2853703.459	-----	-----	-----
L107	767249.800	-5647429.058	2853653.558	-----	-----	-----
L108	767288.749	-5647710.359	2853091.050	-----	-----	-----
L110	767499.604	-5648416.869	2851642.658	-----	-----	-----
L111	767515.480	-5648602.776	2851272.779	-----	-----	-----
L225	777639.784	-5648300.720	2849140.352	0.0	-0.0	0.0
L227	767502.612	-5649000.359	2850493.649	-----	-----	-----

L314	767142.633	-5647498.912	2853547.565	-----	-----	-----
L326	767593.835	-5649044.932	2850382.617	-0.0	-0.0	0.0
L361	764983.612	-5644991.958	2859045.151	-----	-----	-----
M003	719184.021	-5616786.614	2925261.871	-----	-----	-----
M005	716606.110	-5614908.290	2929466.723	-----	-----	-----
M010	719938.659	-5617584.871	2923552.541	-----	-----	-----
M016	720616.573	-5617028.956	2924447.657	-----	-----	-----
M017	715999.381	-5614364.027	2930649.756	0.0	0.0	0.0
M106	715368.300	-5614571.608	2930410.070	-----	-----	-----
M115	718090.606	-5615469.255	2928037.262	-----	-----	-----
M118	718655.043	-5615852.840	2927170.480	-----	-----	-----
M120	719591.938	-5617171.956	2924425.792	-----	-----	-----
M126	721548.348	-5618868.084	2920706.866	-----	-----	-----
M129	723834.208	-5619478.494	2918984.958	-----	-----	-----
M130	724737.855	-5619813.650	2918116.683	-----	-----	-----
M131	725380.457	-5620194.838	2917227.713	-----	-----	-----
M132	719096.069	-5616696.720	2925454.118	-----	-----	-----
M341	720693.086	-5618254.034	2922091.112	-----	-----	-----
M356	723526.101	-5619447.134	2919117.083	-----	-----	-----
M709	715815.094	-5614851.329	2929770.313	-----	-----	-----
M721	718069.273	-5615931.499	2927164.812	-----	-----	-----
M731	719513.690	-5617132.206	2924523.003	-----	-----	-----
M745	720854.867	-5618738.062	2921126.997	-----	-----	-----
S002	744991.495	-5632171.027	2889240.855	-----	-----	-----
S003	746651.794	-5633922.126	2885426.742	0.0	-0.0	0.0
S103	745896.778	-5633185.226	2887045.732	-----	-----	-----
S104	746319.086	-5633571.614	2886190.383	-----	-----	-----
S107	747267.844	-5634479.888	2884185.245	-----	-----	-----
S112	733974.077	-5624871.738	2906117.030	-----	-----	-----
S114	734143.126	-5625104.623	2905627.074	-----	-----	-----
S115	734169.525	-5625358.379	2905132.382	-----	-----	-----
S116	735052.754	-5625529.859	2904581.354	0.0	-0.0	-0.0
S118	736950.016	-5625846.765	2903494.889	-----	-----	-----
S121	737526.680	-5626494.871	2902099.514	-----	-----	-----
S122	737499.851	-5626551.923	2901998.582	-----	-----	-----
S123	738894.593	-5627264.710	2900274.323	-----	-----	-----
S126	746999.576	-5633743.475	2885686.298	-0.0	0.0	0.0
S127	752241.313	-5637509.506	2877007.108	-----	-----	-----
S133	733002.591	-5623623.604	2908759.040	-----	-----	-----
S134	739347.199	-5627415.402	2899868.082	-----	-----	-----
S136	725976.918	-5620578.329	2916349.535	-----	-----	-----
S140	725890.614	-5620463.387	2916588.811	-----	-----	-----

S141	727468.166	-5621406.291	2914391.680	-----	-----	-----
S143	731567.826	-5622454.955	2911361.148	-----	-----	-----
S144	731310.393	-5622677.343	2910998.032	-----	-----	-----
S145	732298.588	-5623076.390	2909989.412	-----	-----	-----
S147	732253.529	-5623403.710	2909369.234	-----	-----	-----
S148	733256.467	-5623843.114	2908273.225	-----	-----	-----
S149	736668.535	-5625663.670	2903917.958	-----	-----	-----
S150	739662.207	-5627746.368	2899147.955	-----	-----	-----
S151	739908.602	-5628016.397	2898565.500	-----	-----	-----
S152	739964.997	-5628018.454	2898546.423	-----	-----	-----
S153	740521.050	-5628532.904	2897416.046	-----	-----	-----
S156	741189.930	-5629135.454	2896084.126	-----	-----	-----
S158	742157.195	-5629821.817	2894513.765	-----	-----	-----
S159	742505.604	-5629973.404	2894127.409	-0.0	0.0	0.0
S160	743549.456	-5630734.371	2892396.144	-----	-----	-----
S162	744438.540	-5631650.437	2890391.934	-----	-----	-----
S163	744457.493	-5631603.388	2890486.069	-----	-----	-----
S164	745583.712	-5632607.748	2888250.507	-----	-----	-----
S165	747624.906	-5634702.269	2883661.321	-----	-----	-----
S170	749527.526	-5635774.592	2881088.158	-----	-----	-----
S172	750865.279	-5636585.048	2879170.926	-----	-----	-----
S173	751931.986	-5637329.786	2877438.955	-----	-----	-----
S318	728928.486	-5622045.316	2912805.069	-----	-----	-----
S361	737180.225	-5626263.622	2902633.876	-----	-----	-----
S700	733322.621	-5623760.175	2908415.519	-----	-----	-----
S704	726274.951	-5620815.382	2915821.094	-----	-----	-----
S722	729739.224	-5622301.966	2912114.350	-----	-----	-----
S735	732649.323	-5623565.798	2908959.856	-----	-----	-----
S747	734149.211	-5625410.335	2905039.199	-----	-----	-----
S785	740750.385	-5628726.081	2896983.532	-----	-----	-----
S793	741869.316	-5629686.809	2894844.417	-----	-----	-----
S804	743623.080	-5630833.516	2892183.884	-----	-----	-----
S831	746593.949	-5633945.190	2885402.985	-----	-----	-----
S837	747527.517	-5634657.337	2883775.298	-----	-----	-----
S876	753837.201	-5638554.904	2874561.963	-----	-----	-----
S901	744376.561	-5631681.034	2890351.453	-----	-----	-----

6. Adjusted Points in WGS84 (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
1001	732253.541	-5623403.709	2909369.236	26.2	26.3	49.4
1002	728928.489	-5622045.318	2912805.065	28.4	28.5	53.8

C004	750900.886	-5636528.568	2879266.686	1.0	1.8	1.3
C009	757096.160	-5639627.353	2871620.846	4.9	4.9	8.8
C012	756215.634	-5639928.801	2871258.360	9.7	9.8	19.0
C016	757101.457	-5640481.820	2869945.926	10.5	10.5	20.4
C017	757287.825	-5640600.431	2869665.458	10.6	10.7	20.6
C023	759163.078	-5641601.583	2867217.996	13.9	13.9	27.1
C024	759614.655	-5641755.945	2866799.330	13.9	13.9	27.1
C029	761057.059	-5642339.166	2865276.806	14.4	14.4	27.5
C044	766032.289	-5645417.345	2857929.048	16.8	16.8	31.8
C075	761175.153	-5642526.094	2864882.162	12.4	12.4	23.6
C076	762646.033	-5642786.974	2863979.552	10.0	10.0	18.0
C077	766637.163	-5643370.731	2861783.138	12.3	12.8	22.0
C322	760534.555	-5642162.598	2865760.692	14.8	14.8	28.2
C332	760534.541	-5642162.588	2865760.685	14.1	14.1	27.6
C710	756341.277	-5640098.935	2870895.644	5.1	5.5	9.2
L007	766293.501	-5645631.606	2857437.171	20.1	20.2	38.2
L008	766735.846	-5646010.411	2856576.080	17.1	17.2	32.5
L103	766908.722	-5646454.527	2855657.826	17.0	17.0	31.9
L104	767034.606	-5646772.701	2854999.075	19.3	19.3	36.4
L106	767347.880	-5647389.909	2853703.459	19.3	19.3	36.4
L107	767249.800	-5647429.058	2853653.558	18.6	18.7	34.9
L108	767288.749	-5647710.359	2853091.050	19.8	19.9	37.2
L110	767499.604	-5648416.869	2851642.658	18.9	19.0	35.0
L111	767515.480	-5648602.776	2851272.779	18.9	19.1	35.0
L225	777639.784	-5648300.720	2849140.352	21.5	22.4	38.3
L227	767502.612	-5649000.359	2850493.649	19.8	20.1	36.7
L314	767142.633	-5647498.912	2853547.565	18.6	18.7	34.9
L326	767593.835	-5649044.932	2850382.617	18.1	19.2	32.5
L361	764983.612	-5644991.958	2859045.151	15.5	15.6	29.3
M003	719184.021	-5616786.614	2925261.871	35.3	35.5	65.0
M005	716606.110	-5614908.290	2929466.723	35.3	35.5	64.6
M010	719938.659	-5617584.871	2923552.541	34.7	34.9	64.1
M016	720616.573	-5617028.956	2924447.657	34.8	34.9	64.1
M017	715999.381	-5614364.027	2930649.756	34.5	34.7	62.4
M106	715368.300	-5614571.608	2930410.070	35.4	35.6	64.6
M115	718090.606	-5615469.255	2928037.262	34.9	35.0	63.8
M118	718655.043	-5615852.840	2927170.480	35.3	35.5	65.0
M120	719591.938	-5617171.956	2924425.792	35.2	35.4	64.9
M126	721548.348	-5618868.084	2920706.866	35.2	35.4	65.5
M129	723834.208	-5619478.494	2918984.958	35.2	35.4	65.5
M130	724737.855	-5619813.650	2918116.683	33.5	33.6	62.8
M131	725380.457	-5620194.838	2917227.713	33.3	33.4	62.4

M132	719096.069	-5616696.720	2925454.118	34.8	35.0	63.9
M341	720693.086	-5618254.034	2922091.112	35.6	35.8	65.8
M356	723526.101	-5619447.134	2919117.083	34.0	34.1	63.1
M709	715815.094	-5614851.329	2929770.313	35.3	35.5	64.6
M721	718069.273	-5615931.499	2927164.812	34.9	35.0	63.8
M731	719513.690	-5617132.206	2924523.003	34.8	35.0	63.9
M745	720854.867	-5618738.062	2921126.997	35.3	35.4	65.5
S002	744991.495	-5632171.027	2889240.855	11.0	11.0	21.3
S003	746651.794	-5633922.126	2885426.742	4.6	4.9	8.3
S103	745896.778	-5633185.226	2887045.732	10.8	10.8	21.1
S104	746319.086	-5633571.614	2886190.383	10.5	10.5	20.4
S107	747267.844	-5634479.888	2884185.245	9.6	9.7	18.8
S112	733974.077	-5624871.738	2906117.030	20.8	20.9	38.7
S114	734143.126	-5625104.623	2905627.074	20.7	20.8	38.5
S115	734169.525	-5625358.379	2905132.382	20.6	20.7	38.3
S116	735052.754	-5625529.859	2904581.354	16.9	17.0	30.5
S118	736950.016	-5625846.765	2903494.889	18.7	18.8	35.0
S121	737526.680	-5626494.871	2902099.514	17.4	17.5	32.6
S122	737499.851	-5626551.923	2901998.582	17.4	17.5	32.6
S123	738894.593	-5627264.710	2900274.323	18.0	18.1	34.1
S126	746999.576	-5633743.475	2885686.298	4.6	4.7	8.3
S127	752241.313	-5637509.506	2877007.108	10.4	10.4	20.7
S133	733002.591	-5623623.604	2908759.040	23.5	23.6	44.2
S134	739347.199	-5627415.402	2899868.082	17.9	18.0	34.0
S136	725976.918	-5620578.329	2916349.535	31.4	31.5	59.3
S140	725890.614	-5620463.387	2916588.811	31.2	31.3	58.6
S141	727468.166	-5621406.291	2914391.680	29.0	29.1	54.7
S143	731567.826	-5622454.955	2911361.148	26.5	26.6	50.0
S144	731310.393	-5622677.343	2910998.032	28.3	28.4	53.5
S145	732298.588	-5623076.390	2909989.412	26.3	26.4	49.6
S147	732253.529	-5623403.710	2909369.234	23.1	23.2	43.4
S148	733256.467	-5623843.114	2908273.225	21.5	21.6	40.1
S149	736668.535	-5625663.670	2903917.958	21.1	21.2	39.5
S150	739662.207	-5627746.368	2899147.955	16.4	16.5	30.9
S151	739908.602	-5628016.397	2898565.500	16.3	16.3	30.7
S152	739964.997	-5628018.454	2898546.423	16.7	16.8	31.8
S153	740521.050	-5628532.904	2897416.046	14.9	15.0	28.2
S156	741189.930	-5629135.454	2896084.126	17.1	17.1	32.6
S158	742157.195	-5629821.817	2894513.765	14.2	14.2	27.0
S159	742505.604	-5629973.404	2894127.409	9.9	10.0	17.8
S160	743549.456	-5630734.371	2892396.144	13.7	13.7	26.2
S162	744438.540	-5631650.437	2890391.934	13.2	13.2	25.5

S163	744457.493	-5631603.388	2890486.069	11.9	11.9	22.7
S164	745583.712	-5632607.748	2888250.507	10.7	10.7	20.7
S165	747624.906	-5634702.269	2883661.321	10.2	10.3	20.1
S170	749527.526	-5635774.592	2881088.158	12.7	12.7	25.3
S172	750865.279	-5636585.048	2879170.926	11.6	11.7	23.2
S173	751931.986	-5637329.786	2877438.955	11.0	11.0	21.8
S318	728928.486	-5622045.316	2912805.069	31.9	32.0	60.5
S361	737180.225	-5626263.622	2902633.876	18.6	18.6	34.8
S700	733322.621	-5623760.175	2908415.519	22.9	23.0	42.8
S704	726274.951	-5620815.382	2915821.094	31.3	31.4	59.2
S722	729739.224	-5622301.966	2912114.350	26.9	27.0	50.7
S735	732649.323	-5623565.798	2908959.856	23.2	23.3	43.4
S747	734149.211	-5625410.335	2905039.199	19.2	19.3	36.0
S785	740750.385	-5628726.081	2896983.532	14.8	14.9	28.0
S793	741869.316	-5629686.809	2894844.417	13.3	13.3	25.1
S804	743623.080	-5630833.516	2892183.884	13.7	13.7	26.2
S831	746593.949	-5633945.190	2885402.985	9.6	9.7	18.9
S837	747527.517	-5634657.337	2883775.298	10.1	10.2	19.9
S876	753837.201	-5638554.904	2874561.963	13.4	13.5	26.7
S901	744376.561	-5631681.034	2890351.453	12.1	12.1	23.2

7. Adjusted Points in WGS84 (Geogr. Coordinates and Std.Dev.)

Point	Lat [Deg]	Lon [Deg]	ell.H [m]	orth.H [m]	geoid.H [m]	sN [mm]	sE [mm]	sH [mm]
1001	N27° 18' 57.95890"	W82° 34' 51.43450"	-22.853	-22.853	0.000	45.2	26.2	33.1
1002	N27° 21' 03.60734"	W82° 36' 45.01864"	-22.493	-22.493	0.000	49.2	28.4	35.9
C004	N27° 00' 38.68901"	W82° 24' 42.16086"	-21.691	-21.691	0.000	0.9	0.9	2.0
C009	N26° 55' 59.93245"	W82° 21' 14.38829"	-20.270	-20.270	0.000	8.0	4.9	6.1
C012	N26° 55' 46.75879"	W82° 21' 47.47554"	-22.468	-22.468	0.000	17.4	9.7	12.3
C016	N26° 54' 58.94274"	W82° 21' 18.31849"	-23.010	-23.010	0.000	18.7	10.5	13.3
C017	N26° 54' 48.72366"	W82° 21' 12.19594"	-23.037	-23.037	0.000	18.9	10.6	13.5
C023	N26° 53' 19.55077"	W82° 20' 09.67781"	-22.762	-22.762	0.000	24.8	13.9	17.5
C024	N26° 53' 04.28558"	W82° 19' 54.20770"	-21.920	-21.920	0.000	24.9	13.9	17.6
C029	N26° 52' 08.84208"	W82° 19' 05.23824"	-22.821	-22.821	0.000	25.2	14.4	18.2
C044	N26° 47' 41.29315"	W82° 16' 21.62428"	-22.256	-22.256	0.000	29.1	16.7	21.1
C075	N26° 51' 54.45203"	W82° 19' 01.90364"	-21.833	-21.833	0.000	21.6	12.4	15.6
C076	N26° 51' 21.60505"	W82° 18' 10.36365"	-23.423	-23.423	0.000	16.5	10.0	12.5
C077	N26° 50' 01.58232"	W82° 15' 49.94986"	-20.993	-20.993	0.000	19.9	12.2	15.8
C322	N26° 52' 26.46135"	W82° 19' 23.14361"	-22.481	-22.481	0.000	25.9	14.8	18.6
C332	N26° 52' 26.46132"	W82° 19' 23.14409"	-22.495	-22.495	0.000	25.3	14.1	17.9
C710	N26° 55' 33.52494"	W82° 21' 43.78130"	-21.500	-21.500	0.000	8.3	5.1	6.7
L007	N26° 47' 23.40331"	W82° 16' 13.29642"	-23.095	-23.095	0.000	35.0	20.1	25.3

L008	N26° 46' 52.06011"	W82° 15' 59.27312"	-22.938	-22.938	0.000	29.8	17.1	21.5
L103	N26° 46' 18.64203"	W82° 15' 55.23562"	-22.964	-22.964	0.000	29.2	17.0	21.3
L104	N26° 45' 54.67065"	W82° 15' 52.27061"	-23.038	-23.038	0.000	33.4	19.3	24.2
L106	N26° 45' 07.51896"	W82° 15' 44.04262"	-22.615	-22.615	0.000	33.4	19.3	24.2
L107	N26° 45' 05.69691"	W82° 15' 47.75069"	-22.228	-22.228	0.000	31.9	18.6	23.4
L108	N26° 44' 45.22330"	W82° 15' 47.72442"	-21.806	-21.806	0.000	34.1	19.8	24.9
L110	N26° 43' 52.54633"	W82° 15' 43.60572"	-22.898	-22.898	0.000	32.0	18.9	23.7
L111	N26° 43' 39.08939"	W82° 15' 43.94224"	-22.823	-22.823	0.000	32.0	18.9	23.7
L225	N26° 42' 21.53102"	W82° 09' 39.54109"	-23.318	-23.318	0.000	34.7	21.4	27.7
L227	N26° 43' 10.74755"	W82° 15' 46.34034"	-22.852	-22.852	0.000	33.6	19.8	25.0
L314	N26° 45' 01.82034"	W82° 15' 51.93418"	-21.009	-21.009	0.000	31.9	18.6	23.4
L326	N26° 43' 06.70055"	W82° 15' 43.28700"	-22.352	-22.352	0.000	29.5	18.2	23.5
L361	N26° 48' 21.90069"	W82° 16' 57.17944"	-21.049	-21.049	0.000	26.9	15.5	19.5
M003	N27° 28' 39.50141"	W82° 42' 12.39049"	-22.414	-22.414	0.000	59.2	35.3	44.5
M005	N27° 31' 13.52580"	W82° 43' 36.87501"	-23.504	-23.504	0.000	58.8	35.3	44.4
M010	N27° 27' 36.92725"	W82° 41' 48.82160"	-23.275	-23.275	0.000	58.4	34.7	43.7
M016	N27° 28' 09.70021"	W82° 41' 21.75648"	-23.198	-23.198	0.000	58.5	34.8	43.8
M017	N27° 31' 56.86785"	W82° 43' 56.29740"	-23.617	-23.617	0.000	56.7	34.5	43.3
M106	N27° 31' 48.06895"	W82° 44' 20.06800"	-22.574	-22.574	0.000	58.9	35.4	44.5
M115	N27° 30' 21.16386"	W82° 42' 45.81031"	-23.493	-23.493	0.000	58.1	34.9	43.8
M118	N27° 29' 49.40372"	W82° 42' 27.18551"	-22.731	-22.731	0.000	59.2	35.3	44.5
M120	N27° 28' 08.89688"	W82° 41' 59.43590"	-23.036	-23.036	0.000	59.2	35.2	44.3
M126	N27° 25' 52.75680"	W82° 40' 56.62699"	-23.576	-23.576	0.000	59.7	35.2	44.4
M129	N27° 24' 49.67983"	W82° 39' 36.91937"	-20.384	-20.384	0.000	59.8	35.2	44.4
M130	N27° 24' 17.93894"	W82° 39' 05.85323"	-22.456	-22.456	0.000	57.3	33.5	42.2
M131	N27° 23' 45.41625"	W82° 38' 44.43007"	-22.926	-22.926	0.000	57.0	33.3	42.0
M132	N27° 28' 46.54654"	W82° 42' 15.15242"	-22.725	-22.725	0.000	58.3	34.8	43.8
M341	N27° 26' 43.41690"	W82° 41' 24.66960"	-22.893	-22.893	0.000	60.0	35.6	44.8
M356	N27° 24' 54.54417"	W82° 39' 47.89825"	-22.094	-22.094	0.000	57.5	34.0	42.8
M709	N27° 31' 24.62335"	W82° 44' 05.20542"	-22.089	-22.089	0.000	58.8	35.3	44.4
M721	N27° 29' 49.18490"	W82° 42' 48.71736"	-22.066	-22.066	0.000	58.1	34.9	43.8
M731	N27° 28' 12.43887"	W82° 42' 02.07884"	-21.999	-21.999	0.000	58.3	34.8	43.8
M745	N27° 26' 08.12292"	W82° 41' 21.06916"	-22.835	-22.835	0.000	59.8	35.3	44.5
S002	N27° 06' 42.61271"	W82° 27' 53.93877"	-23.242	-23.242	0.000	19.5	11.0	13.9
S003	N27° 04' 23.38008"	W82° 27' 02.53440"	-20.817	-20.817	0.000	7.5	4.6	6.0
S103	N27° 05' 22.48521"	W82° 27' 26.18907"	-22.468	-22.468	0.000	19.3	10.8	13.7
S104	N27° 04' 51.25628"	W82° 27' 12.83438"	-21.520	-21.520	0.000	18.7	10.5	13.3
S107	N27° 03' 38.09062"	W82° 26' 43.03109"	-21.273	-21.273	0.000	17.2	9.6	12.2
S112	N27° 16' 59.06241"	W82° 33' 56.28906"	-23.255	-23.255	0.000	35.3	20.8	26.2
S114	N27° 16' 41.15033"	W82° 33' 51.28973"	-23.142	-23.142	0.000	35.1	20.7	26.0
S115	N27° 16' 23.06820"	W82° 33' 51.53196"	-23.164	-23.164	0.000	35.0	20.6	26.0
S116	N27° 16' 02.92209"	W82° 33' 20.49743"	-22.845	-22.845	0.000	27.8	16.9	21.1

S118	N27° 15' 23.20595"	W82° 32' 13.59986"	-22.405	-22.405	0.000	32.0	18.7	23.6
S121	N27° 14' 32.22911"	W82° 31' 55.87625"	-23.392	-23.392	0.000	29.8	17.5	22.0
S122	N27° 14' 28.52426"	W82° 31' 57.11270"	-22.399	-22.399	0.000	29.8	17.4	22.0
S123	N27° 13' 25.50998"	W82° 31' 10.22070"	-21.717	-21.717	0.000	31.2	18.0	22.8
S126	N27° 04' 32.83196"	W82° 26' 49.16928"	-19.681	-19.681	0.000	7.6	4.6	5.8
S127	N26° 59' 16.32175"	W82° 23' 58.67185"	-23.291	-23.291	0.000	19.0	10.4	13.2
S133	N27° 18' 35.65146"	W82° 34' 25.45186"	-23.120	-23.120	0.000	40.4	23.5	29.7
S134	N27° 13' 10.67701"	W82° 30' 54.62537"	-22.271	-22.271	0.000	31.1	17.9	22.7
S136	N27° 23' 13.25814"	W82° 38' 24.68659"	-21.440	-21.440	0.000	54.2	31.4	39.7
S140	N27° 23' 22.02936"	W82° 38' 27.26600"	-22.401	-22.401	0.000	53.5	31.2	39.4
S141	N27° 22' 01.65096"	W82° 37' 34.72771"	-22.795	-22.795	0.000	49.9	29.0	36.7
S143	N27° 20' 10.80302"	W82° 35' 11.71471"	-22.915	-22.915	0.000	45.7	26.5	33.5
S144	N27° 19' 57.52869"	W82° 35' 22.04516"	-23.248	-23.248	0.000	48.9	28.3	35.7
S145	N27° 19' 20.61313"	W82° 34' 48.27227"	-21.432	-21.432	0.000	45.4	26.3	33.2
S147	N27° 18' 57.95885"	W82° 34' 51.43495"	-22.854	-22.854	0.000	39.7	23.1	29.2
S148	N27° 18' 17.89353"	W82° 34' 17.32796"	-23.423	-23.423	0.000	36.6	21.5	27.1
S149	N27° 15' 38.66989"	W82° 32' 22.88174"	-22.515	-22.515	0.000	36.0	21.1	26.6
S150	N27° 12' 44.38533"	W82° 30' 44.84256"	-23.305	-23.305	0.000	28.3	16.4	20.7
S151	N27° 12' 23.10172"	W82° 30' 37.24427"	-22.970	-22.970	0.000	28.1	16.3	20.5
S152	N27° 12' 22.41099"	W82° 30' 35.22227"	-23.340	-23.340	0.000	29.1	16.7	21.1
S153	N27° 11' 41.09568"	W82° 30' 17.62804"	-21.900	-21.900	0.000	25.8	14.9	18.8
S156	N27° 10' 52.43996"	W82° 29' 56.39141"	-21.437	-21.437	0.000	29.8	17.1	21.6
S158	N27° 09' 55.08009"	W82° 29' 24.81212"	-20.818	-20.818	0.000	24.7	14.2	17.9
S159	N27° 09' 41.00743"	W82° 29' 12.98521"	-22.967	-22.967	0.000	16.2	9.9	12.4
S160	N27° 08' 37.74785"	W82° 28' 39.01485"	-20.247	-20.247	0.000	24.0	13.7	17.3
S162	N27° 07' 24.61620"	W82° 28' 11.36451"	-22.440	-22.440	0.000	23.4	13.1	16.7
S163	N27° 07' 27.99236"	W82° 28' 10.45839"	-18.826	-18.826	0.000	20.8	11.9	15.0
S164	N27° 06' 06.41165"	W82° 27' 34.70412"	-19.950	-19.950	0.000	18.9	10.7	13.5
S165	N27° 03' 18.97953"	W82° 26' 31.24741"	-21.465	-21.465	0.000	18.4	10.2	13.0
S170	N27° 01' 45.11521"	W82° 25' 27.93749"	-21.428	-21.428	0.000	23.3	12.7	16.2
S172	N27° 00' 35.16044"	W82° 24' 43.71168"	-19.490	-19.490	0.000	21.4	11.6	14.9
S173	N26° 59' 32.05421"	W82° 24' 08.92984"	-22.492	-22.492	0.000	20.1	11.0	14.0
S318	N27° 21' 03.60749"	W82° 36' 45.01873"	-22.494	-22.494	0.000	55.3	31.9	40.4
S361	N27° 14' 51.74376"	W82° 32' 07.27066"	-22.638	-22.638	0.000	31.8	18.6	23.4
S700	N27° 18' 23.09960"	W82° 34' 14.55218"	-23.626	-23.626	0.000	39.1	22.9	28.8
S704	N27° 22' 53.93011"	W82° 38' 15.03449"	-21.840	-21.840	0.000	54.1	31.3	39.6
S722	N27° 20' 38.31987"	W82° 36' 16.96813"	-21.087	-21.087	0.000	46.3	26.9	33.9
S735	N27° 18' 42.98337"	W82° 34' 37.92116"	-22.474	-22.474	0.000	39.7	23.2	29.3
S747	N27° 16' 19.64948"	W82° 33' 52.50880"	-22.407	-22.407	0.000	32.9	19.2	24.2
S785	N27° 11' 25.30897"	W82° 30' 10.28261"	-22.582	-22.582	0.000	25.6	14.8	18.7
S793	N27° 10' 07.18115"	W82° 29' 34.53861"	-22.399	-22.399	0.000	23.0	13.3	16.7
S804	N27° 08' 30.01138"	W82° 28' 36.83553"	-21.037	-21.037	0.000	24.0	13.7	17.3

S831	N27° 04' 22.46707"	W82° 27' 04.72560"	-18.038	-18.038	0.000	17.3	9.6	12.3
S837	N27° 03' 23.12489"	W82° 26' 34.53633"	-20.697	-20.697	0.000	18.2	10.1	12.9
S876	N26° 57' 47.13687"	W82° 23' 06.32901"	-20.681	-20.681	0.000	24.6	13.4	17.1
S901	N27° 07' 23.11664"	W82° 28' 13.74115"	-21.127	-21.127	0.000	21.2	12.1	15.3

8. Adjusted Points in National System (Plane Coord. and Residuals)

Point	N [m]	E [m]	ell.H [m]	resN [mm]	resE [mm]	resH [mm]
1001	3022437.517	343574.722	-22.884	-----	-----	-----
1002	3026344.292	340502.439	-22.522	-----	-----	-----
C004	2988409.275	359941.754	-21.718	0.0	0.0	-0.0
C009	2979768.749	365576.419	-20.300	0.0	0.0	-0.0
C012	2979373.180	364659.482	-22.495	-----	-----	-----
C016	2977893.179	365447.920	-23.037	-----	-----	-----
C017	2977576.918	365613.446	-23.063	-----	-----	-----
C023	2974814.653	367309.079	-22.790	-----	-----	-----
C024	2974340.434	367730.982	-21.948	-----	-----	-----
C029	2972620.262	369064.417	-22.850	-----	-----	-----
C044	2964341.564	373496.934	-22.285	-----	-----	-----
C075	2972176.513	369151.838	-21.862	-----	-----	-----
C076	2971151.093	370563.797	-23.454	0.0	0.0	-0.0
C077	2968649.554	374414.541	-21.029	0.0	0.0	0.0
C322	2973167.569	368575.960	-22.509	-----	-----	-----
C332	2973167.569	368575.947	-22.523	-----	-----	-----
C710	2978964.859	364756.990	-21.527	0.0	0.0	0.0
L007	2963788.791	373721.395	-23.124	-----	-----	-----
L008	2962820.495	374099.039	-22.966	-----	-----	-----
L103	2961791.110	374200.311	-22.991	-----	-----	-----
L104	2961052.697	374274.870	-23.065	-----	-----	-----
L106	2959599.587	374487.742	-22.640	-----	-----	-----
L107	2959544.539	374384.754	-22.253	-----	-----	-----
L108	2958914.561	374379.227	-21.831	-----	-----	-----
L110	2957292.571	374476.943	-22.921	-----	-----	-----
L111	2956878.596	374463.542	-22.845	-----	-----	-----
L225	2954396.436	384510.071	-23.360	0.0	0.0	0.0
L227	2956007.181	374388.638	-22.873	-----	-----	-----
L314	2959426.405	374268.004	-21.034	-----	-----	-----
L326	2955881.820	374471.774	-22.373	0.0	0.0	0.0
L361	2965600.937	372527.735	-21.078	-----	-----	-----
M003	3040494.611	331698.230	-22.438	-----	-----	-----
M005	3045267.023	329445.157	-23.529	-----	-----	-----
M010	3038559.947	332318.867	-23.299	-----	-----	-----

M016	3039558.449	333075.623	-23.225	-----	-----	-----
M017	3046608.393	328930.870	-23.643	0.0	0.0	0.0
M106	3046346.724	328274.898	-22.598	-----	-----	-----
M115	3043636.057	330824.060	-23.519	-----	-----	-----
M118	3042651.541	331321.715	-22.757	-----	-----	-----
M120	3039547.840	332040.931	-23.061	-----	-----	-----
M126	3035334.492	333708.399	-23.599	-----	-----	-----
M129	3033363.825	335871.310	-20.409	-----	-----	-----
M130	3032375.620	336711.572	-22.482	-----	-----	-----
M131	3031366.919	337286.768	-22.953	-----	-----	-----
M132	3040712.476	331625.393	-22.750	-----	-----	-----
M341	3036904.060	332959.526	-22.916	-----	-----	-----
M356	3033517.556	335571.777	-22.119	-----	-----	-----
M709	3045619.425	328672.578	-22.113	-----	-----	-----
M721	3042652.954	330730.687	-22.091	-----	-----	-----
M731	3039657.843	331969.871	-22.023	-----	-----	-----
M745	3035816.502	333043.623	-22.858	-----	-----	-----
S002	2999668.462	354786.199	-23.271	-----	-----	-----
S003	2995367.480	356152.345	-20.844	0.0	0.0	0.0
S103	2997193.832	355521.789	-22.496	-----	-----	-----
S104	2996228.579	355878.517	-21.547	-----	-----	-----
S107	2993967.627	356673.606	-21.299	-----	-----	-----
S112	3018759.430	345044.715	-23.284	-----	-----	-----
S114	3018206.475	345175.279	-23.171	-----	-----	-----
S115	3017650.092	345161.655	-23.192	-----	-----	-----
S116	3017019.460	346007.355	-22.874	0.0	0.0	0.0
S118	3015774.478	347832.027	-22.438	-----	-----	-----
S121	3014199.736	348300.263	-23.423	-----	-----	-----
S122	3014086.139	348264.857	-22.430	-----	-----	-----
S123	3012131.220	349531.152	-21.748	-----	-----	-----
S126	2995654.101	356523.860	-19.709	0.0	0.0	-0.0
S127	2985861.319	361112.290	-23.317	-----	-----	-----
S133	3021741.988	344280.290	-23.151	-----	-----	-----
S134	3011669.555	349954.668	-22.303	-----	-----	-----
S136	3030370.079	337816.068	-21.467	-----	-----	-----
S140	3030640.951	337748.766	-22.428	-----	-----	-----
S141	3028148.343	339159.734	-22.822	-----	-----	-----
S143	3024686.352	343045.753	-22.947	-----	-----	-----
S144	3024281.451	342756.631	-23.279	-----	-----	-----
S145	3023133.593	343670.473	-21.463	-----	-----	-----
S147	3022437.515	343574.710	-22.884	-----	-----	-----
S148	3021192.683	344496.737	-23.454	-----	-----	-----

S149	3016253.507	347582.607	-22.547	-----	-----	-----
S150	3010857.209	350214.040	-23.337	-----	-----	-----
S151	3010199.712	350415.199	-23.002	-----	-----	-----
S152	3010177.785	350470.578	-23.372	-----	-----	-----
S153	3008900.541	350939.415	-21.931	-----	-----	-----
S156	3007396.232	351505.897	-21.468	-----	-----	-----
S158	3005620.718	352354.020	-20.848	-----	-----	-----
S159	3005183.794	352674.422	-22.998	0.0	0.0	-0.0
S160	3003226.052	353586.569	-20.278	-----	-----	-----
S162	3000966.636	354321.449	-22.469	-----	-----	-----
S163	3001070.238	354347.614	-18.855	-----	-----	-----
S164	2998548.291	355302.945	-19.979	-----	-----	-----
S165	2993375.809	356991.515	-21.492	-----	-----	-----
S170	2990467.540	358703.140	-21.455	-----	-----	-----
S172	2988301.172	359897.794	-19.517	-----	-----	-----
S173	2986348.575	360834.880	-22.519	-----	-----	-----
S318	3026344.296	340502.436	-22.522	-----	-----	-----
S361	3014804.121	347994.214	-22.669	-----	-----	-----
S700	3021351.937	344575.061	-23.657	-----	-----	-----
S704	3029771.760	338073.404	-21.866	-----	-----	-----
S722	3025556.124	341263.253	-21.116	-----	-----	-----
S735	3021971.951	343940.360	-22.505	-----	-----	-----
S747	3017545.219	345133.476	-22.435	-----	-----	-----
S785	3008412.303	351135.720	-22.613	-----	-----	-----
S793	3005996.291	352090.731	-22.429	-----	-----	-----
S804	3002987.271	353643.766	-21.067	-----	-----	-----
S831	2995340.080	356091.660	-18.064	-----	-----	-----
S837	2993504.410	356902.362	-20.723	-----	-----	-----
S876	2983101.032	362525.158	-20.708	-----	-----	-----
S901	3000921.255	354255.468	-21.156	-----	-----	-----

9. Adjusted Points in National System (Plane Coord. and Std.Dev.)

Point	N [m]	E [m]	ell.H [m]	orth.H [m]	geoid.H [m]	sN [mm]	sE [mm]	sH [mm]
1001	3022437.517	343574.722	-22.884	-22.884	0.000	45.2	26.2	33.1
1002	3026344.292	340502.439	-22.522	-22.522	0.000	49.2	28.4	35.9
C004	2988409.275	359941.754	-21.718	-21.718	0.000	0.9	0.9	2.0
C009	2979768.749	365576.419	-20.300	-20.300	0.000	8.0	4.9	6.1
C012	2979373.180	364659.482	-22.495	-22.495	0.000	17.4	9.7	12.3
C016	2977893.179	365447.920	-23.037	-23.037	0.000	18.7	10.5	13.3
C017	2977576.918	365613.446	-23.063	-23.063	0.000	18.9	10.6	13.5
C023	2974814.653	367309.079	-22.790	-22.790	0.000	24.8	13.9	17.5

C024	2974340.434	367730.982	-21.948	-21.948	0.000	24.9	13.9	17.6
C029	2972620.262	369064.417	-22.850	-22.850	0.000	25.2	14.4	18.2
C044	2964341.564	373496.934	-22.285	-22.285	0.000	29.1	16.7	21.1
C075	2972176.513	369151.838	-21.862	-21.862	0.000	21.6	12.4	15.6
C076	2971151.093	370563.797	-23.454	-23.454	0.000	16.5	10.0	12.5
C077	2968649.554	374414.541	-21.029	-21.029	0.000	19.9	12.2	15.8
C322	2973167.569	368575.960	-22.509	-22.509	0.000	25.9	14.8	18.6
C332	2973167.569	368575.947	-22.523	-22.523	0.000	25.3	14.1	17.9
C710	2978964.859	364756.990	-21.527	-21.527	0.000	8.3	5.1	6.7
L007	2963788.791	373721.395	-23.124	-23.124	0.000	35.0	20.1	25.3
L008	2962820.495	374099.039	-22.966	-22.966	0.000	29.8	17.1	21.5
L103	2961791.110	374200.311	-22.991	-22.991	0.000	29.2	17.0	21.3
L104	2961052.697	374274.870	-23.065	-23.065	0.000	33.4	19.3	24.2
L106	2959599.587	374487.742	-22.640	-22.640	0.000	33.4	19.3	24.2
L107	2959544.539	374384.754	-22.253	-22.253	0.000	31.9	18.6	23.4
L108	2958914.561	374379.227	-21.831	-21.831	0.000	34.1	19.8	24.9
L110	2957292.571	374476.943	-22.921	-22.921	0.000	32.0	18.9	23.7
L111	2956878.596	374463.542	-22.845	-22.845	0.000	32.0	18.9	23.7
L225	2954396.436	384510.071	-23.360	-23.360	0.000	34.7	21.4	27.7
L227	2956007.181	374388.638	-22.873	-22.873	0.000	33.6	19.8	25.0
L314	2959426.405	374268.004	-21.034	-21.034	0.000	31.9	18.6	23.4
L326	2955881.820	374471.774	-22.373	-22.373	0.000	29.5	18.2	23.5
L361	2965600.937	372527.735	-21.078	-21.078	0.000	26.9	15.5	19.5
M003	3040494.611	331698.230	-22.438	-22.438	0.000	59.2	35.3	44.5
M005	3045267.023	329445.157	-23.529	-23.529	0.000	58.8	35.3	44.4
M010	3038559.947	332318.867	-23.299	-23.299	0.000	58.4	34.7	43.7
M016	3039558.449	333075.623	-23.225	-23.225	0.000	58.5	34.8	43.8
M017	3046608.393	328930.870	-23.643	-23.643	0.000	56.7	34.5	43.3
M106	3046346.724	328274.898	-22.598	-22.598	0.000	58.9	35.4	44.5
M115	3043636.057	330824.060	-23.519	-23.519	0.000	58.1	34.9	43.8
M118	3042651.541	331321.715	-22.757	-22.757	0.000	59.2	35.3	44.5
M120	3039547.840	332040.931	-23.061	-23.061	0.000	59.2	35.2	44.3
M126	3035334.492	333708.399	-23.599	-23.599	0.000	59.7	35.2	44.4
M129	3033363.825	335871.310	-20.409	-20.409	0.000	59.8	35.2	44.4
M130	3032375.620	336711.572	-22.482	-22.482	0.000	57.3	33.5	42.2
M131	3031366.919	337286.768	-22.953	-22.953	0.000	57.0	33.3	42.0
M132	3040712.476	331625.393	-22.750	-22.750	0.000	58.3	34.8	43.8
M341	3036904.060	332959.526	-22.916	-22.916	0.000	60.0	35.6	44.8
M356	3033517.556	335571.777	-22.119	-22.119	0.000	57.5	34.0	42.8
M709	3045619.425	328672.578	-22.113	-22.113	0.000	58.8	35.3	44.4
M721	3042652.954	330730.687	-22.091	-22.091	0.000	58.1	34.9	43.8
M731	3039657.843	331969.871	-22.023	-22.023	0.000	58.3	34.8	43.8

M745	3035816.502	333043.623	-22.858	-22.858	0.000	59.8	35.3	44.5
S002	2999668.462	354786.199	-23.271	-23.271	0.000	19.5	11.0	13.9
S003	2995367.480	356152.345	-20.844	-20.844	0.000	7.5	4.6	6.0
S103	2997193.832	355521.789	-22.496	-22.496	0.000	19.3	10.8	13.7
S104	2996228.579	355878.517	-21.547	-21.547	0.000	18.7	10.5	13.3
S107	2993967.627	356673.606	-21.299	-21.299	0.000	17.2	9.6	12.2
S112	3018759.430	345044.715	-23.284	-23.284	0.000	35.3	20.8	26.2
S114	3018206.475	345175.279	-23.171	-23.171	0.000	35.1	20.7	26.0
S115	3017650.092	345161.655	-23.192	-23.192	0.000	35.0	20.6	26.0
S116	3017019.460	346007.355	-22.874	-22.874	0.000	27.8	16.9	21.1
S118	3015774.478	347832.027	-22.438	-22.438	0.000	32.0	18.7	23.6
S121	3014199.736	348300.263	-23.423	-23.423	0.000	29.8	17.5	22.0
S122	3014086.139	348264.857	-22.430	-22.430	0.000	29.8	17.4	22.0
S123	3012131.220	349531.152	-21.748	-21.748	0.000	31.2	18.0	22.8
S126	2995654.101	356523.860	-19.709	-19.709	0.000	7.6	4.6	5.8
S127	2985861.319	361112.290	-23.317	-23.317	0.000	19.0	10.4	13.2
S133	3021741.988	344280.290	-23.151	-23.151	0.000	40.4	23.5	29.7
S134	3011669.555	349954.668	-22.303	-22.303	0.000	31.1	17.9	22.7
S136	3030370.079	337816.068	-21.467	-21.467	0.000	54.2	31.4	39.7
S140	3030640.951	337748.766	-22.428	-22.428	0.000	53.5	31.2	39.4
S141	3028148.343	339159.734	-22.822	-22.822	0.000	49.9	29.0	36.7
S143	3024686.352	343045.753	-22.947	-22.947	0.000	45.7	26.5	33.5
S144	3024281.451	342756.631	-23.279	-23.279	0.000	48.9	28.3	35.7
S145	3023133.593	343670.473	-21.463	-21.463	0.000	45.4	26.3	33.2
S147	3022437.515	343574.710	-22.884	-22.884	0.000	39.7	23.1	29.2
S148	3021192.683	344496.737	-23.454	-23.454	0.000	36.6	21.5	27.1
S149	3016253.507	347582.607	-22.547	-22.547	0.000	36.0	21.1	26.6
S150	3010857.209	350214.040	-23.337	-23.337	0.000	28.3	16.4	20.7
S151	3010199.712	350415.199	-23.002	-23.002	0.000	28.1	16.3	20.5
S152	3010177.785	350470.578	-23.372	-23.372	0.000	29.1	16.7	21.1
S153	3008900.541	350939.415	-21.931	-21.931	0.000	25.8	14.9	18.8
S156	3007396.232	351505.897	-21.468	-21.468	0.000	29.8	17.1	21.6
S158	3005620.718	352354.020	-20.848	-20.848	0.000	24.7	14.2	17.9
S159	3005183.794	352674.422	-22.998	-22.998	0.000	16.2	9.9	12.4
S160	3003226.052	353586.569	-20.278	-20.278	0.000	24.0	13.7	17.3
S162	3000966.636	354321.449	-22.469	-22.469	0.000	23.4	13.1	16.7
S163	3001070.238	354347.614	-18.855	-18.855	0.000	20.8	11.9	15.0
S164	2998548.291	355302.945	-19.979	-19.979	0.000	18.9	10.7	13.5
S165	2993375.809	356991.515	-21.492	-21.492	0.000	18.4	10.2	13.0
S170	2990467.540	358703.140	-21.455	-21.455	0.000	23.3	12.7	16.2
S172	2988301.172	359897.794	-19.517	-19.517	0.000	21.4	11.6	14.9
S173	2986348.575	360834.880	-22.519	-22.519	0.000	20.1	11.0	14.0

S318	3026344.296	340502.436	-22.522	-22.522	0.000	55.3	31.9	40.4
S361	3014804.121	347994.214	-22.669	-22.669	0.000	31.8	18.6	23.4
S700	3021351.937	344575.061	-23.657	-23.657	0.000	39.1	22.9	28.8
S704	3029771.760	338073.404	-21.866	-21.866	0.000	54.1	31.3	39.6
S722	3025556.124	341263.253	-21.116	-21.116	0.000	46.3	26.9	33.9
S735	3021971.951	343940.360	-22.505	-22.505	0.000	39.7	23.2	29.3
S747	3017545.219	345133.476	-22.435	-22.435	0.000	32.9	19.2	24.2
S785	3008412.303	351135.720	-22.613	-22.613	0.000	25.6	14.8	18.7
S793	3005996.291	352090.731	-22.429	-22.429	0.000	23.0	13.3	16.7
S804	3002987.271	353643.766	-21.067	-21.067	0.000	24.0	13.7	17.3
S831	2995340.080	356091.660	-18.064	-18.064	0.000	17.3	9.6	12.3
S837	2993504.410	356902.362	-20.723	-20.723	0.000	18.2	10.1	12.9
S876	2983101.032	362525.158	-20.708	-20.708	0.000	24.6	13.4	17.1
S901	3000921.255	354255.468	-21.156	-21.156	0.000	21.2	12.1	15.3

10. Adjusted Points Error Ellipses

Point	A [mm]	B [mm]	Angle [Deg]
1001	45.2	26.2	0.2
1002	49.2	28.4	0.1
C004	1.1	0.7	-47.2
C009	8.0	4.9	0.9
C012	17.4	9.7	0.7
C016	18.7	10.5	0.6
C017	18.9	10.6	0.5
C023	24.8	13.9	0.1
C024	24.9	13.9	0.1
C029	25.2	14.4	-0.6
C044	29.2	16.7	-0.8
C075	21.6	12.4	-0.4
C076	16.5	10.0	-0.3
C077	20.0	12.1	-5.6
C322	25.9	14.8	-0.6
C332	25.3	14.1	0.1
C710	8.3	5.1	7.4
L007	35.0	20.1	0.4
L008	29.8	17.1	-0.7
L103	29.2	17.0	-0.0
L104	33.4	19.3	0.4
L106	33.4	19.3	0.5
L107	31.9	18.6	0.8
L108	34.1	19.8	0.9

L110	32.0	18.9	1.5
L111	32.0	18.9	1.6
L225	34.9	21.2	-6.0
L227	33.6	19.8	2.0
L314	31.9	18.6	0.8
L326	29.6	18.0	6.2
L361	26.9	15.5	-0.9
M003	59.2	35.3	-0.3
M005	58.8	35.3	-0.3
M010	58.4	34.7	-0.2
M016	58.5	34.8	-0.2
M017	56.7	34.5	-0.4
M106	58.9	35.4	-0.3
M115	58.1	34.9	-0.3
M118	59.2	35.3	-0.3
M120	59.2	35.2	-0.2
M126	59.7	35.2	-0.2
M129	59.8	35.2	-0.2
M130	57.3	33.5	-0.1
M131	57.0	33.3	-0.0
M132	58.3	34.8	-0.3
M341	60.0	35.6	-0.2
M356	57.5	34.0	-0.1
M709	58.8	35.3	-0.3
M721	58.1	34.9	-0.3
M731	58.3	34.8	-0.3
M745	59.8	35.3	-0.2
S002	19.5	11.0	-0.3
S003	7.5	4.6	-6.2
S103	19.3	10.8	-0.6
S104	18.7	10.5	-0.6
S107	17.2	9.6	-0.8
S112	35.3	20.8	0.4
S114	35.1	20.7	0.5
S115	35.0	20.6	0.5
S116	27.8	16.9	0.8
S118	32.0	18.7	0.5
S121	29.8	17.5	0.6
S122	29.8	17.4	0.6
S123	31.2	18.0	0.5
S126	7.6	4.6	-3.2
S127	19.0	10.4	0.2

S133	40.4	23.5	0.3
S134	31.1	17.9	0.5
S136	54.2	31.4	0.0
S140	53.5	31.2	0.0
S141	49.9	29.0	0.1
S143	45.7	26.5	0.2
S144	48.9	28.3	0.2
S145	45.4	26.3	0.2
S147	39.7	23.1	0.3
S148	36.6	21.5	0.4
S149	36.1	21.1	0.4
S150	28.3	16.4	0.6
S151	28.1	16.3	0.6
S152	29.1	16.7	0.5
S153	25.8	14.9	0.6
S156	29.8	17.1	0.5
S158	24.7	14.2	0.6
S159	16.2	9.9	2.0
S160	24.0	13.7	0.4
S162	23.4	13.1	-0.0
S163	20.8	11.9	0.2
S164	18.9	10.7	-0.4
S165	18.4	10.2	-0.7
S170	23.3	12.7	0.1
S172	21.4	11.6	0.1
S173	20.1	11.0	0.2
S318	55.3	31.9	0.1
S361	31.8	18.6	0.5
S700	39.1	22.9	0.3
S704	54.1	31.3	0.1
S722	46.3	26.9	0.2
S735	39.7	23.2	0.3
S747	32.9	19.2	0.5
S785	25.6	14.8	0.6
S793	23.0	13.3	0.6
S804	24.0	13.7	0.4
S831	17.3	9.6	-0.8
S837	18.2	10.1	-0.7
S876	24.6	13.4	0.2
S901	21.2	12.1	0.1

Tier-2_C:

Statistics	
Adjustment in the national system.	
System: UTM 17 (Datum: WGS_84, Projection: UTM_WGS)	
Geoidmodel	None
Number of baselines	214
Number of terrestrial measurements	0
Number of control points in national system	14
Number of adjusted points	70
Confidence level	1 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	0.389
Number of iterations	3

Adjusted Transformation Parameters WGS84->National:	
Scale	1.000000712 +- 0.000000312
Rotation X	0.3188 arcsec +- 0.1566 arcsec
Rotation Y	0.0621 arcsec +- 0.1078 arcsec
Rotation Z	0.1824 arcsec +- 0.1638 arcsec
Translation X	5.283 m
Translation Y	0.370 m
Translation Z	-10.996 m
The translation has been calculated using the WGS84 coordinates of point L881.	

1. Baselines Input in WGS84 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
0100-L210	-1003.310	853.734	1992.512	25.9	27.6	28.1
0100-L211	-643.577	581.723	1345.731	18.0	20.6	21.4
0100-L212	-70.251	91.871	203.026	4.0	5.6	5.9
0100-L229	-1428.061	1280.041	2971.543	37.2	38.9	38.5
0100-L232	70.972	92.313	162.520	4.9	7.9	7.3
0100-X001	1997.248	-2353.437	-5286.422	63.3	66.0	66.3
0100-0130	2935.025	-1627.131	-4098.964	55.3	57.4	58.1
0100-0131	2578.557	-2540.157	-5817.413	70.6	73.3	73.5

0100-0711	1238.241	-1231.227	-2816.357	34.9	37.1	37.3
0100-L939	-17.849	-26.230	-45.889	3.6	7.5	8.1
0105-X001	-517.875	723.876	1599.835	21.6	24.3	24.0
0105-0111	1375.646	-3222.551	-6872.592	81.9	85.1	85.2
0105-0131	63.443	537.153	1068.830	15.2	17.8	18.2
0105-0135	214.801	-352.753	-769.611	11.9	14.6	14.4
0105-0741	939.851	-1812.736	-3908.345	47.9	51.2	51.0
0111-X001	-1893.524	3946.426	8472.428	99.2	101.8	102.0
0111-0131	-1312.206	3759.699	7941.426	92.9	95.5	96.8
0111-0132	1765.362	-2673.634	-5899.393	71.1	76.1	79.4
0111-0135	-1160.847	2869.804	6102.985	73.5	79.9	83.2
0111-0741	-435.798	1409.814	2964.249	36.8	39.2	39.6
0111-0753	98.663	-272.778	-576.360	9.0	12.2	13.6
0111-0761	750.684	-1390.798	-3018.628	42.0	45.6	47.1
0111-0775	1317.053	-2809.330	-6038.559	72.0	77.1	79.5
0115-X007	7891.028	-3964.022	-10326.424	140.5	145.0	145.1
0115-X012	497.698	-1258.771	-2688.408	33.4	36.5	36.7
0115-0132	258.675	368.736	666.289	11.4	14.4	15.1
0115-0133	1575.285	796.838	1145.298	25.0	29.7	29.2
0115-0775	-189.630	233.057	527.112	8.4	10.7	10.7
0130-X001	-937.774	-726.307	-1187.459	18.9	21.1	21.4
0130-0131	-356.467	-913.026	-1718.448	21.9	23.9	24.2
0130-0711	-1696.782	395.902	1282.607	23.7	25.6	25.9
0130-L939	-2952.872	1600.907	4053.071	57.7	63.0	63.9
0131-X001	-581.318	186.723	531.002	10.1	11.9	12.5
0131-0711	-1340.315	1308.930	3001.055	37.1	39.2	39.2
0131-0135	151.360	-889.906	-1838.441	22.9	25.1	26.0
0131-0741	876.411	-2349.883	-4977.178	58.7	61.4	62.6
0131-L939	-2596.404	2513.933	5771.519	72.6	78.6	78.6
0132-X007	7632.363	-4332.764	-10992.703	151.1	154.0	155.3
0132-X012	239.023	-1627.508	-3354.698	40.8	43.9	44.9
0132-0133	1316.615	428.091	479.012	18.3	22.3	21.3
0132-0135	-2926.228	5543.422	12002.387	140.3	146.5	147.7
0132-0753	-1666.699	2400.846	5323.041	64.0	68.1	69.7
0132-0761	-1014.678	1282.843	2880.765	40.8	43.5	43.8
0132-0775	-448.303	-135.682	-139.171	7.1	10.2	10.8
0133-X007	6315.750	-4760.863	-11471.723	145.1	152.0	151.4
0133-X012	-1077.587	-2055.607	-3833.710	49.0	54.1	53.3
0133-0775	-1764.916	-563.776	-618.187	22.8	26.6	25.6
0134-X012	-8384.038	5642.145	13895.078	181.4	185.7	185.6
0134-X008	-1829.316	-753.392	-991.363	25.4	30.5	27.7
0134-0847	192.313	-2244.791	-4621.252	55.0	59.6	58.9

0135-X001	-732.679	1076.627	2369.445	29.6	31.9	32.4
0135-0753	1259.513	-3142.577	-6679.349	82.2	86.8	87.3
0135-0761	1911.546	-4260.591	-9121.618	110.6	115.5	115.0
0135-0741	725.051	-1459.976	-3138.734	38.1	40.6	41.3
0135-0775	2477.916	-5679.099	-12141.567	140.9	147.0	147.7
0711-L939	-1256.089	1205.001	2770.465	36.2	40.6	40.7
0711-X001	759.007	-1122.210	-2470.066	29.8	31.9	31.9
0741-X001	-1457.730	2536.608	5508.179	65.1	67.8	68.3
0753-0761	652.025	-1118.012	-2442.271	33.7	37.3	36.9
0753-0775	1218.398	-2536.536	-5462.204	64.5	68.7	69.2
0761-0775	566.374	-1418.523	-3019.935	40.6	44.7	44.2
0775-X007	8080.670	-4197.076	-10853.531	145.5	149.1	149.2
0775-X012	687.328	-1491.829	-3215.521	39.3	42.4	42.4
0847-X007	-1182.998	5181.688	10878.357	125.1	130.7	129.3
0847-X012	-8576.337	7886.933	18516.347	226.0	232.6	231.2
0847-X008	-2021.629	1491.394	3629.894	48.1	53.9	51.1
L014-L142	615.063	-709.627	-1576.260	20.6	23.8	23.6
L014-L144	1010.417	-1705.414	-3657.800	44.2	48.3	49.4
L014-L226	3346.897	6441.705	11831.619	141.7	145.8	145.5
L014-L407	878.760	-1552.262	-3319.177	39.4	41.7	41.6
L014-L783	-490.166	453.808	1032.879	14.1	16.6	16.4
L022-L187	-21.846	19.184	43.993	4.7	9.1	7.1
L022-L231	42.761	89.769	179.490	1.2	1.2	1.2
L022-L181	-7532.599	-1608.105	-1092.485	80.7	84.0	86.2
L022-L186	-465.597	83.062	295.905	8.7	13.0	14.2
L022-L481	-6239.538	-1034.267	-310.287	66.0	69.8	70.1
L022-L876	-1246.192	321.749	991.191	19.0	22.7	23.4
L022-L881	-164.391	-93.795	-135.411	4.9	7.3	7.1
L022-L189	1663.488	-43.130	-553.565	17.9	17.9	17.9
L022-L192	2892.311	-216.664	-1245.847	39.1	43.8	42.8
L022-L193	3376.888	-295.094	-1539.239	27.0	27.1	27.0
L022-L891	2993.383	-265.128	-1371.401	25.6	25.5	25.6
L142-L144	395.352	-995.788	-2081.537	28.5	31.1	32.1
L142-L155	3903.707	-2754.237	-6541.251	84.5	87.8	87.9
L142-L230	1385.946	-2034.511	-4420.387	59.5	63.6	61.6
L142-L783	-1105.229	1163.432	2609.141	44.5	45.9	45.9
L142-L407	263.696	-842.640	-1742.914	21.5	23.9	24.0
L144-L226	2336.484	8147.114	15489.417	180.8	187.1	189.4
L144-L407	-131.657	153.150	338.627	6.6	10.5	12.1
L144-L783	-1500.582	2159.221	4690.678	56.3	60.1	61.6
L155-L156	1242.390	-180.271	-699.095	16.5	19.3	19.5
L155-L230	-2517.765	719.721	2120.863	37.6	41.1	39.4

L155-L163	3569.537	-691.547	-2357.260	46.2	49.8	50.2
L155-L407	-3640.012	1911.602	4798.333	65.6	67.9	67.8
L155-L416	-2767.851	791.424	2335.480	39.2	42.1	42.3
L156-L163	2327.146	-511.276	-1658.165	32.1	35.9	36.2
L156-L416	-4010.241	971.695	3034.575	53.8	57.3	57.5
L163-L165	966.252	-56.523	-380.315	13.7	16.5	17.0
L163-L166	1883.370	-72.065	-663.201	23.7	27.7	27.9
L163-L168	2493.483	-71.232	-830.979	30.7	35.3	36.1
L163-L447	1043.257	-108.292	-499.322	15.0	17.8	18.2
L163-L416	-6337.389	1482.972	4692.738	82.8	86.0	86.2
L165-L166	917.116	-15.553	-282.888	17.6	19.9	20.4
L165-L168	1527.226	-14.719	-450.667	20.1	24.0	26.1
L165-L447	77.003	-51.774	-119.011	4.8	7.4	8.7
L166-L168	610.121	0.840	-167.766	9.6	13.4	12.2
L166-L169	1373.068	-35.861	-452.820	17.2	20.1	19.9
L166-L170	1920.766	5.586	-521.077	22.8	25.8	26.1
L166-L447	-840.114	-36.222	163.877	11.9	14.9	16.0
L166-L456	1764.661	-74.600	-637.643	21.7	25.0	24.1
L168-L447	-1450.228	-37.058	331.654	18.9	22.0	24.6
L168-L456	1154.539	-75.437	-469.879	15.7	19.1	17.6
L168-L169	762.946	-36.701	-285.056	7.4	7.5	7.4
L168-L170	1310.646	4.747	-353.309	17.1	19.8	20.3
L169-L170	547.707	41.442	-68.237	5.6	5.6	5.7
L169-L456	391.593	-38.738	-184.823	7.5	10.4	10.0
L170-L456	-156.093	-80.180	-116.566	4.4	6.9	6.9
L170-L467	2938.669	709.188	597.314	33.1	35.8	35.8
L170-L469	3411.420	912.065	869.680	38.5	40.9	40.9
L170-L179	3810.172	1080.902	1094.220	43.3	45.8	45.8
L179-L180	594.453	255.742	343.559	10.3	14.5	18.1
L179-L456	-3966.266	-1161.086	-1210.782	45.5	48.3	47.2
L179-L467	-871.504	-371.715	-496.904	12.6	14.8	14.0
L179-L469	-398.755	-168.848	-224.540	6.9	9.8	10.4
L179-L181	1215.007	527.182	711.204	17.5	20.4	20.6
L179-L481	2508.070	1101.005	1493.408	34.3	38.1	38.6
L180-L181	620.551	271.436	367.646	10.8	15.1	18.8
L180-L469	-993.208	-424.577	-568.103	15.6	20.7	24.9
L180-L481	1913.617	845.266	1149.849	27.7	33.0	37.6
L181-L186	7067.001	1691.165	1388.394	162.4	159.3	156.9
L181-L469	-1613.761	-696.016	-935.751	22.8	27.0	27.8
L181-L876	6286.411	1929.850	2083.684	71.6	74.3	76.8
L181-L481	1293.063	573.824	782.204	18.5	21.1	21.2
L186-L187	443.770	-63.910	-251.898	9.2	13.1	11.6

L186-L231	508.377	6.683	-116.404	2.6	2.6	2.5
L186-L876	-780.592	238.684	695.287	13.8	17.3	19.2
L186-L881	301.215	-176.877	-431.302	7.3	8.6	8.6
L186-L481	-5773.943	-1117.330	-606.196	62.0	65.2	66.8
L187-L231	64.602	70.605	135.498	1.3	1.3	1.3
L187-L881	-142.549	-112.975	-179.404	5.9	9.3	7.6
L189-L192	1228.824	-173.535	-692.282	16.3	15.1	16.0
L189-L193	1713.403	-251.950	-985.675	14.3	14.3	14.3
L189-L881	-1827.888	-50.664	418.157	19.1	19.1	19.1
L189-L891	1329.895	-221.976	-817.846	16.0	16.0	16.0
L192-L193	484.577	-78.422	-293.390	5.9	5.9	5.9
L192-L881	-3056.712	122.859	1110.441	35.4	39.4	39.4
L192-L891	101.073	-48.464	-125.557	1.8	1.8	1.9
L193-L194	638.801	-136.227	-452.175	10.4	13.2	13.1
L193-L196	1413.170	-376.839	-1150.086	21.9	24.4	29.5
L193-L216	2781.158	-1107.368	-2993.716	45.7	49.0	49.2
L193-L233	2471.300	-996.728	-2684.725	40.8	43.8	44.1
L193-L881	-3541.293	201.277	1403.834	38.8	38.8	38.8
L193-L891	-383.506	29.966	167.830	2.6	2.6	2.6
L194-L216	2142.358	-971.140	-2541.539	37.3	40.2	40.2
L194-L891	-1022.293	166.181	620.013	17.0	19.4	19.2
L194-L196	774.365	-240.623	-697.897	13.7	16.6	19.5
L194-L233	1832.500	-860.499	-2232.549	33.0	36.1	36.4
L196-L199	1413.654	-757.839	-1910.678	28.5	32.9	34.9
L196-L200	1842.750	-794.497	-2105.262	33.5	37.6	42.3
L196-L215	1546.485	-785.708	-2004.310	30.6	35.2	38.7
L196-L216	1367.990	-730.519	-1843.641	33.3	34.9	38.9
L196-L228	2657.611	-672.152	-2090.512	39.8	43.2	44.4
L196-L891	-1796.657	406.812	1317.894	27.4	31.1	37.2
L196-L233	1058.130	-619.874	-1534.657	27.3	29.4	31.5
L199-L200	429.100	-36.673	-194.578	7.7	10.6	13.1
L199-L215	132.831	-27.873	-93.629	3.9	6.8	8.1
L199-L228	1243.956	85.687	-179.835	15.6	19.4	20.3
L199-L233	-355.528	137.973	376.015	8.3	12.2	12.8
L200-L215	-296.268	8.794	100.953	6.1	8.8	11.0
L200-L228	814.854	122.356	14.744	11.5	14.4	16.4
L200-L233	-784.627	174.631	570.600	17.3	19.0	21.3
L210-L211	359.732	-272.016	-646.781	10.1	12.8	13.1
L210-L212	933.059	-761.861	-1789.486	24.3	25.8	26.5
L210-L215	-4359.415	2093.253	5422.135	79.3	82.7	82.6
L210-L228	-3248.289	2206.819	5335.925	77.4	78.1	78.9
L210-L232	1074.283	-761.420	-1829.994	25.9	28.7	29.8

L210-L235	-1972.444	2177.918	4918.183	62.0	64.1	63.8
L210-L919	-2302.584	1431.318	3515.957	47.7	51.5	50.6
L210-L229	-424.752	426.304	979.035	13.4	15.0	14.8
L211-L212	573.327	-489.847	-1142.708	15.7	18.2	18.6
L211-L229	-784.485	698.314	1625.817	21.3	23.9	24.1
L211-L232	714.552	-489.405	-1183.211	20.0	24.7	28.1
L212-L229	-1357.810	1188.169	2768.518	35.6	37.0	37.2
L212-L232	141.224	0.442	-40.506	5.5	7.7	8.4
L215-L228	1111.126	113.570	-86.210	14.2	17.6	17.2
L215-L229	3934.664	-1666.958	-4443.101	65.1	68.5	68.5
L215-L233	-488.359	165.843	469.644	10.2	14.2	15.1
L215-L235	2386.971	84.662	-503.946	27.3	30.3	30.2
L215-L919	2056.830	-661.926	-1906.176	32.1	36.1	35.5
L216-L233	-309.859	110.639	308.992	7.2	9.6	10.2
L216-L891	-3164.653	1137.324	3161.552	49.5	52.6	53.0
L226-L783	-3837.059	-5987.889	-10798.744	131.9	135.2	135.0
L226-L407	-2468.134	-7993.968	-15150.800	175.5	178.4	178.3
L228-L235	1275.844	-28.902	-417.739	15.5	17.8	17.2
L228-L919	945.705	-775.495	-1819.966	24.7	28.3	27.2
L228-L229	2823.538	-1780.524	-4356.892	61.7	63.2	63.3
L228-L233	-1599.486	52.285	555.850	23.1	25.9	25.8
L229-L232	1499.033	-1187.727	-2809.024	37.2	40.5	39.8
L229-L235	-1547.692	1751.618	3939.154	48.6	51.4	51.0
L229-L919	-1877.836	1005.013	2536.928	35.8	38.9	38.1
L230-L407	-1122.245	1191.882	2677.471	34.7	37.8	36.3
L231-L881	-207.160	-183.565	-314.898	2.3	2.4	2.3
L233-L891	-2854.794	1026.684	2852.561	44.6	47.3	48.0
L235-L919	-330.140	-746.592	-1402.227	18.9	22.0	21.1
L407-L783	-1368.926	2006.072	4352.056	51.5	53.6	53.6
L456-L467	3094.762	789.370	713.879	35.3	38.2	37.1
L456-L469	3567.515	992.246	986.247	43.1	44.6	44.0
L467-L469	472.752	202.876	272.366	7.6	9.5	8.8
L469-L481	2906.821	1269.828	1717.962	39.6	44.5	45.8
L481-L876	4993.345	1356.023	1301.474	55.6	58.2	58.8
L881-L891	3157.786	-171.317	-1236.002	34.9	35.0	35.0
L939-X001	2015.096	-2327.209	-5240.532	64.6	69.2	69.4
X007-X012	-7393.335	2705.247	7637.989	115.3	121.2	118.5
X008-X012	-6554.698	6395.545	14886.440	181.2	191.4	184.4

Baselines which were rejected by the statistical test are marked.

2. National Control Points Input (Plane Coord. and Std.Dev.)

Point	N [m]	E [m]	ell.H [m]	sN [mm]	sE [mm]	sH [mm]
0100	2912601.506	415637.112	-22.020	0.0	0.0	0.0
0130	2908012.765	418280.867	-21.231	0.0	0.0	0.0
0131	2906097.947	417786.118	-17.260	0.0	0.0	0.0
0132	2890666.060	419818.879	-21.971	0.0	0.0	0.0
0133	2891191.443	421185.932	-22.620	0.0	0.0	0.0
0134	2871429.243	427196.687	-22.612	0.0	0.0	0.0
L014	2936179.099	380783.839	-21.983	0.0	0.0	0.0
L181	2925030.671	397082.760	-22.787	0.0	0.0	0.0
L228	2920802.964	411917.417	-20.874	0.0	0.0	0.0
L229	2915923.593	414427.159	-20.196	0.0	0.0	0.0
L230	2929464.942	382330.829	-22.508	0.0	0.0	0.0
L231	2926388.234	404829.393	-16.896	0.0	0.0	0.0
X007	2878390.348	426677.765	-21.052	0.0	0.0	0.0
X008	2870337.816	425272.553	-22.480	0.0	0.0	0.0

Coordinates which were not considered in the adjustment are in brackets.

3. Adjusted Baselines in WGS84 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
0100-L210	-1003.314	853.740	1992.508	3.1	3.5	3.6
0100-L211	-643.580	581.724	1345.728	3.1	3.6	3.7
0100-L212	-70.252	91.872	203.025	1.3	1.9	1.9
0100-L229	-1428.068	1280.050	2971.535	1.2	1.7	1.5
0100-L232	70.972	92.314	162.519	1.5	2.2	2.2
0100-X001	1997.230	-2353.432	-5286.423	3.8	4.6	4.5
0100-0130	2935.017	-1627.125	-4098.970	1.8	2.3	2.2
0100-0131	2578.544	-2540.152	-5817.423	2.4	3.3	3.0
0100-0711	1238.234	-1231.224	-2816.360	5.6	6.2	6.2
0100-L939	-17.849	-26.229	-45.890	1.4	2.8	3.1
0105-X001	-517.874	723.874	1599.832	4.5	5.2	5.2
0105-0111	1375.658	-3222.553	-6872.596	8.5	9.8	9.6
0105-0131	63.440	537.153	1068.831	4.2	4.8	4.8
0105-0135	214.802	-352.754	-769.611	3.9	4.7	4.7
0105-0741	939.855	-1812.734	-3908.345	8.7	9.4	9.4
0111-X001	-1893.532	3946.427	8472.428	8.5	9.9	9.6
0111-0131	-1312.218	3759.706	7941.427	8.0	9.3	9.1
0111-0132	1765.370	-2673.634	-5899.395	7.9	9.0	8.9
0111-0135	-1160.856	2869.799	6102.985	8.5	9.7	9.6
0111-0741	-435.803	1409.819	2964.250	9.7	10.6	10.6
0111-0753	98.663	-272.779	-576.360	3.4	4.5	5.0

0111-0761	750.689	-1390.794	-3018.631	8.4	9.4	9.5
0111-0775	1317.069	-2809.322	-6038.567	8.0	9.1	9.1
0115-X007	7891.028	-3964.004	-10326.420	5.7	7.2	7.0
0115-X012	497.701	-1258.775	-2688.410	7.7	8.4	8.4
0115-0132	258.670	368.746	666.286	2.9	3.6	3.7
0115-0133	1575.309	796.789	1145.313	2.9	3.8	3.8
0115-0775	-189.630	233.058	527.113	2.7	3.4	3.4
0130-X001	-937.787	-726.307	-1187.452	3.1	3.7	3.7
0130-0131	-356.473	-913.028	-1718.453	0.6	1.4	1.1
0130-0711	-1696.784	395.901	1282.610	5.4	5.9	5.9
0130-L939	-2952.867	1600.896	4053.081	2.3	3.6	3.7
0131-X001	-581.314	186.721	531.001	3.0	3.5	3.6
0131-0711	-1340.310	1308.928	3001.063	5.5	6.0	6.0
0131-0135	151.362	-889.907	-1838.442	4.6	5.3	5.4
0131-0741	876.415	-2349.888	-4977.177	8.6	9.3	9.4
0131-L939	-2596.393	2513.923	5771.533	2.7	4.2	4.2
0132-X007	7632.358	-4332.749	-10992.706	4.9	6.2	5.9
0132-X012	239.030	-1627.521	-3354.696	7.6	8.3	8.3
0132-0133	1316.638	428.044	479.027	0.5	1.3	0.9
0132-0135	-2926.226	5543.433	12002.379	6.8	9.5	8.6
0132-0753	-1666.706	2400.855	5323.034	8.0	9.1	9.1
0132-0761	-1014.680	1282.840	2880.764	8.6	9.4	9.4
0132-0775	-448.301	-135.688	-139.172	2.3	3.1	3.2
0133-X007	6315.719	-4760.793	-11471.733	4.8	6.4	6.0
0133-X012	-1077.608	-2055.564	-3833.723	7.6	8.3	8.3
0133-0775	-1764.939	-563.731	-618.200	2.3	3.2	3.3
0134-X012	-8384.036	5642.127	13895.131	10.2	12.4	11.8
0134-X008	-1829.300	-753.416	-991.336	0.7	2.0	1.4
0134-0847	192.319	-2244.801	-4621.238	13.4	14.6	14.2
0135-X001	-732.676	1076.628	2369.443	5.0	5.7	5.7
0135-0753	1259.520	-3142.578	-6679.345	8.7	10.1	10.0
0135-0761	1911.546	-4260.594	-9121.616	9.9	11.6	11.2
0135-0741	725.053	-1459.981	-3138.735	8.6	9.3	9.4
0135-0775	2477.925	-5679.121	-12141.552	7.0	9.8	9.0
0711-L939	-1256.083	1204.995	2770.471	5.7	6.6	6.6
0711-X001	758.997	-1122.208	-2470.062	5.9	6.5	6.5
0741-X001	-1457.729	2536.609	5508.177	8.9	9.6	9.7
0753-0761	652.026	-1118.015	-2442.271	8.4	9.3	9.4
0753-0775	1218.406	-2536.543	-5462.207	8.1	9.2	9.3
0761-0775	566.379	-1418.527	-3019.936	8.6	9.5	9.5
0775-X007	8080.658	-4197.062	-10853.534	5.5	7.0	6.8
0775-X012	687.331	-1491.833	-3215.523	7.6	8.3	8.4

0847-X007	-1183.028	5181.699	10878.359	13.5	15.2	14.6
0847-X012	-8576.356	7886.928	18516.369	16.6	19.0	18.3
0847-X008	-2021.620	1491.386	3629.902	13.4	14.7	14.2
L014-L142	615.062	-709.628	-1576.262	5.7	6.2	6.1
L014-L144	1010.415	-1705.417	-3657.802	6.1	6.9	7.0
L014-L226	3346.895	6441.700	11831.621	29.9	30.3	30.3
L014-L407	878.758	-1552.267	-3319.176	5.9	6.4	6.4
L014-L783	-490.166	453.807	1032.879	5.0	5.7	5.6
L022-L187	-21.840	19.165	43.993	0.6	0.7	0.6
L022-L231	42.762	89.769	179.490	0.4	0.5	0.5
L022-L181	-7532.635	-1608.108	-1092.489	2.6	6.6	4.7
L022-L186	-465.613	83.084	295.893	1.0	1.0	1.0
L022-L481	-6239.569	-1034.281	-310.287	5.5	8.1	7.1
L022-L876	-1246.202	321.759	991.184	4.3	5.2	5.5
L022-L881	-164.397	-93.797	-135.408	0.8	0.9	0.9
L022-L189	1663.487	-43.130	-553.562	3.7	3.7	3.7
L022-L192	2892.310	-216.655	-1245.843	3.5	3.4	3.4
L022-L193	3376.889	-295.083	-1539.230	3.4	3.4	3.4
L022-L891	2993.383	-265.119	-1371.401	3.4	3.4	3.4
L142-L144	395.353	-995.789	-2081.540	5.7	6.5	6.7
L142-L155	3903.699	-2754.238	-6541.261	10.6	11.8	11.5
L142-L230	1385.935	-2034.531	-4420.389	5.9	6.7	6.5
L142-L783	-1105.228	1163.435	2609.141	6.9	7.4	7.4
L142-L407	263.696	-842.639	-1742.915	5.6	6.1	6.1
L144-L226	2336.480	8147.117	15489.424	30.1	30.4	30.5
L144-L407	-131.657	153.149	338.626	2.5	3.9	4.3
L144-L783	-1500.581	2159.224	4690.682	7.1	7.9	8.0
L155-L156	1242.390	-180.269	-699.097	5.8	6.8	6.8
L155-L230	-2517.764	719.707	2120.872	9.0	10.7	10.1
L155-L163	3569.536	-691.539	-2357.269	8.7	10.0	9.8
L155-L407	-3640.003	1911.599	4798.347	10.5	11.8	11.4
L155-L416	-2767.851	791.426	2335.478	11.7	12.6	12.6
L156-L163	2327.146	-511.270	-1658.172	8.8	10.1	10.0
L156-L416	-4010.242	971.695	3034.575	12.1	13.1	13.1
L163-L165	966.253	-56.518	-380.314	3.6	4.3	4.5
L163-L166	1883.367	-72.071	-663.205	4.2	4.9	5.1
L163-L168	2493.486	-71.232	-830.976	4.4	5.2	5.3
L163-L447	1043.255	-108.292	-499.325	3.6	4.3	4.5
L163-L416	-6337.387	1482.965	4692.747	13.6	14.8	14.7
L165-L166	917.114	-15.553	-282.892	3.2	3.9	4.2
L165-L168	1527.233	-14.714	-450.662	3.5	4.3	4.5
L165-L447	77.003	-51.774	-119.011	1.7	2.6	3.0

L166-L168	610.119	0.839	-167.770	2.7	3.3	3.3
L166-L169	1373.064	-35.861	-452.828	3.0	3.6	3.5
L166-L170	1920.764	5.579	-521.071	3.2	3.7	3.7
L166-L447	-840.111	-36.221	163.880	3.1	3.8	4.0
L166-L456	1764.667	-74.601	-637.642	3.2	3.9	3.8
L168-L447	-1450.230	-37.060	331.651	3.5	4.2	4.4
L168-L456	1154.548	-75.439	-469.871	2.6	3.0	2.9
L168-L169	762.945	-36.700	-285.058	2.3	2.4	2.3
L168-L170	1310.645	4.741	-353.300	2.5	2.7	2.7
L169-L170	547.700	41.440	-68.242	1.7	1.8	1.9
L169-L456	391.603	-38.740	-184.813	1.9	2.4	2.3
L170-L456	-156.097	-80.180	-116.571	1.5	2.2	2.2
L170-L467	2938.666	709.191	597.308	6.1	6.7	6.5
L170-L469	3411.417	912.065	869.673	6.0	6.6	6.5
L170-L179	3810.172	1080.909	1094.214	6.1	6.7	6.6
L179-L180	594.453	255.740	343.559	3.0	4.0	4.8
L179-L456	-3966.268	-1161.089	-1210.785	6.1	6.7	6.6
L179-L467	-871.506	-371.718	-496.906	2.9	3.6	3.6
L179-L469	-398.754	-168.844	-224.541	2.2	2.9	3.1
L179-L181	1215.005	527.177	711.205	3.6	4.4	4.9
L179-L481	2508.072	1101.005	1493.407	5.4	6.3	6.6
L180-L181	620.552	271.437	367.646	3.3	4.3	5.2
L180-L469	-993.208	-424.584	-568.100	3.3	4.4	5.1
L180-L481	1913.618	845.265	1149.848	5.3	6.3	6.9
L181-L186	7067.022	1691.192	1388.382	2.7	6.7	4.7
L181-L469	-1613.759	-696.021	-935.746	3.8	4.7	5.1
L181-L876	6286.433	1929.868	2083.673	4.9	8.0	7.0
L181-L481	1293.066	573.828	782.202	5.0	5.6	5.9
L186-L187	443.773	-63.919	-251.900	1.0	1.0	1.0
L186-L231	508.375	6.686	-116.403	0.9	0.9	0.9
L186-L876	-780.589	238.675	695.291	4.2	5.2	5.5
L186-L881	301.217	-176.880	-431.301	1.1	1.2	1.1
L186-L481	-5773.955	-1117.365	-606.180	5.5	8.1	7.1
L187-L231	64.602	70.604	135.497	0.5	0.5	0.5
L187-L881	-142.557	-112.962	-179.401	0.8	0.9	0.9
L189-L192	1228.824	-173.525	-692.281	3.1	2.8	2.9
L189-L193	1713.402	-251.953	-985.669	3.1	2.9	2.9
L189-L881	-1827.884	-50.666	418.154	3.7	3.7	3.7
L189-L891	1329.896	-221.989	-817.839	3.1	2.8	2.9
L192-L193	484.578	-78.428	-293.388	1.1	1.1	1.1
L192-L881	-3056.707	122.859	1110.435	3.5	3.5	3.4
L192-L891	101.073	-48.463	-125.558	0.7	0.7	0.7

L193-L194	638.797	-136.224	-452.177	3.0	3.7	3.7
L193-L196	1413.162	-376.847	-1150.069	3.8	4.4	4.9
L193-L216	2781.149	-1107.360	-2993.714	4.5	5.3	5.4
L193-L233	2471.290	-996.720	-2684.722	4.0	4.7	4.7
L193-L881	-3541.286	201.287	1403.822	3.5	3.5	3.4
L193-L891	-383.506	29.965	167.830	0.9	0.9	0.9
L194-L216	2142.352	-971.136	-2541.538	4.7	5.6	5.7
L194-L891	-1022.303	166.188	620.007	3.1	3.7	3.7
L194-L196	774.365	-240.623	-697.892	3.8	4.5	5.0
L194-L233	1832.493	-860.496	-2232.546	4.3	5.1	5.2
L196-L199	1413.655	-757.843	-1910.669	4.1	4.8	5.2
L196-L200	1842.754	-794.511	-2105.249	4.2	4.9	5.4
L196-L215	1546.486	-785.717	-2004.297	4.1	4.8	5.2
L196-L216	1367.988	-730.513	-1843.645	4.6	5.3	5.6
L196-L228	2657.609	-672.154	-2090.501	4.2	4.9	5.2
L196-L891	-1796.667	406.811	1317.899	3.8	4.4	4.9
L196-L233	1058.128	-619.873	-1534.653	4.1	4.6	5.0
L199-L200	429.100	-36.669	-194.580	1.9	2.7	3.2
L199-L215	132.831	-27.874	-93.628	1.3	2.2	2.5
L199-L228	1243.954	85.688	-179.832	2.7	3.4	3.6
L199-L233	-355.527	137.969	376.016	2.3	3.1	3.3
L200-L215	-296.268	8.795	100.952	1.8	2.5	3.0
L200-L228	814.855	122.357	14.748	2.8	3.4	3.8
L200-L233	-784.626	174.638	570.596	2.6	3.4	3.8
L210-L211	359.733	-272.017	-646.780	3.1	3.8	3.9
L210-L212	933.062	-761.868	-1789.483	3.2	3.7	3.8
L210-L215	-4359.435	2093.252	5422.139	4.8	5.8	5.8
L210-L228	-3248.312	2206.814	5335.935	3.9	4.6	4.5
L210-L232	1074.286	-761.426	-1829.988	3.3	3.9	4.0
L210-L235	-1972.464	2177.913	4918.192	5.7	6.5	6.4
L210-L919	-2302.602	1431.321	3515.964	6.2	7.0	6.9
L210-L229	-424.755	426.310	979.027	3.1	3.5	3.5
L211-L212	573.329	-489.851	-1142.703	3.1	3.7	3.8
L211-L229	-784.488	698.326	1625.807	3.1	3.7	3.8
L211-L232	714.553	-489.409	-1183.209	3.2	3.9	4.0
L212-L229	-1357.817	1188.178	2768.510	1.8	2.4	2.4
L212-L232	141.224	0.442	-40.506	1.6	2.2	2.3
L215-L228	1111.123	113.562	-86.204	2.6	3.3	3.4
L215-L229	3934.680	-1666.942	-4443.112	3.4	4.3	4.4
L215-L233	-488.358	165.843	469.644	2.3	3.1	3.4
L215-L235	2386.971	84.662	-503.946	4.9	5.6	5.6
L215-L919	2056.833	-661.930	-1906.175	5.6	6.4	6.3

L216-L233	-309.860	110.640	308.992	2.6	3.5	3.7
L216-L891	-3164.655	1137.324	3161.544	4.5	5.3	5.4
L226-L783	-3837.061	-5987.893	-10798.742	30.0	30.3	30.3
L226-L407	-2468.137	-7993.968	-15150.798	30.0	30.4	30.4
L228-L235	1275.848	-28.900	-417.742	4.4	5.0	4.9
L228-L919	945.710	-775.493	-1819.971	5.2	5.9	5.7
L228-L229	2823.558	-1780.504	-4356.908	1.9	2.4	2.3
L228-L233	-1599.481	52.281	555.848	3.1	3.8	3.9
L229-L232	1499.040	-1187.735	-2809.015	1.9	2.7	2.6
L229-L235	-1547.709	1751.604	3939.165	4.7	5.4	5.3
L229-L919	-1877.847	1005.012	2536.937	5.4	6.1	5.9
L230-L407	-1122.239	1191.892	2677.475	6.0	6.8	6.6
L231-L881	-207.159	-183.566	-314.899	0.7	0.8	0.8
L233-L891	-2854.795	1026.685	2852.552	4.0	4.7	4.7
L235-L919	-330.138	-746.592	-1402.229	5.4	6.2	6.0
L407-L783	-1368.924	2006.075	4352.056	7.0	7.6	7.6
L456-L467	3094.763	789.371	713.879	6.1	6.7	6.5
L456-L469	3567.514	992.245	986.244	6.0	6.6	6.5
L467-L469	472.751	202.874	272.365	2.5	3.2	3.0
L469-L481	2906.826	1269.849	1717.948	5.5	6.5	6.8
L481-L876	4993.366	1356.040	1301.471	6.8	9.1	8.6
L881-L891	3157.780	-171.322	-1235.992	3.4	3.4	3.4
L939-X001	2015.079	-2327.203	-5240.533	4.0	5.3	5.3
X007-X012	-7393.327	2705.229	7638.011	8.8	10.1	9.9
X008-X012	-6554.736	6395.542	14886.467	10.2	13.1	12.2

4. Baseline Corrections (Corrections and Normalized Corr.)

Baseline	vN [mm]	vE [mm]	vH [mm]	vN/sN	vE/sE	vH/sH
0100-L210	-0.9	-3.4	-7.8	-0.4	-1.1	-1.8
0100-L211	-2.1	-3.6	-2.2	-0.9	-1.2	-0.5
0100-L212	-0.2	-0.4	-1.5	-0.2	-0.3	-0.6
0100-L229	-3.0	-5.7	-12.6	-2.9	-4.7	-6.2
0100-L232	-0.4	-0.0	-1.3	-0.2	-0.0	-0.5
0100-X001	3.2	-16.4	-7.6	1.0	-4.4	-1.3
0100-0130	-2.9	-6.5	-9.4	-1.9	-3.5	-3.3
0100-0131	-6.6	-12.1	-10.2	-3.2	-5.2	-2.6
0100-0711	-1.2	-7.0	-4.8	-0.3	-1.3	-0.6
0100-L939	-0.2	-0.1	-0.7	-0.1	-0.1	-0.2
0105-X001	-3.4	1.1	0.2	-0.9	0.2	0.0
0105-0111	-4.6	11.9	1.5	-0.7	1.4	0.1
0105-0131	2.0	-2.6	-0.5	0.6	-0.6	-0.1

0105-0135	0.2	0.8	0.4	0.1	0.2	0.1
0105-0741	-0.3	4.4	-1.2	-0.0	0.5	-0.1
0111-X001	0.8	-8.6	-2.9	0.1	-1.0	-0.2
0111-0131	4.6	-11.4	-7.9	0.8	-1.4	-0.7
0111-0132	-2.3	7.4	0.7	-0.4	0.9	0.1
0111-0135	-2.1	-9.8	2.8	-0.3	-1.2	0.2
0111-0741	3.5	-4.6	-4.3	0.5	-0.5	-0.3
0111-0753	-0.1	0.1	0.6	-0.0	0.0	0.1
0111-0761	-0.9	6.0	-3.9	-0.1	0.7	-0.3
0111-0775	-4.4	16.7	-8.2	-0.7	2.1	-0.7
0115-X007	10.9	2.5	-14.8	2.3	0.4	-1.7
0115-X012	-3.1	1.9	2.7	-0.5	0.2	0.3
0115-0132	1.1	-3.3	-10.3	0.5	-1.2	-2.2
0115-0133	-9.8	17.0	52.8	-4.0	6.0	11.1
0115-0775	1.5	0.2	-0.4	0.7	0.1	-0.1
0130-X001	7.5	-12.9	1.0	3.0	-4.3	0.2
0130-0131	-4.2	-6.2	-1.7	-6.5	-10.0	-1.0
0130-0711	2.0	-2.3	2.0	0.5	-0.4	0.3
0130-L939	2.9	3.4	15.2	1.1	1.5	3.4
0131-X001	-2.6	4.1	1.5	-1.1	1.4	0.4
0131-0711	6.1	4.7	5.4	1.5	0.9	0.7
0131-0135	-1.5	1.7	0.4	-0.4	0.4	0.1
0131-0741	-1.4	3.3	5.6	-0.2	0.4	0.5
0131-L939	7.5	9.4	16.6	2.6	3.5	3.2
0132-X007	3.4	-3.4	-15.4	0.8	-0.7	-2.0
0132-X012	-3.9	5.8	12.9	-0.7	0.8	1.2
0132-0133	-9.1	16.1	51.8	-18.1	37.5	34.5
0132-0135	-2.1	3.3	-13.2	-0.4	0.5	-1.1
0132-0753	-1.0	-6.0	-12.4	-0.2	-0.7	-1.1
0132-0761	-2.7	-2.4	1.8	-0.4	-0.3	0.2
0132-0775	-3.6	1.6	4.8	-1.7	0.7	1.2
0133-X007	23.9	-20.6	-70.7	5.9	-4.3	-9.1
0133-X012	8.8	-15.1	-46.0	1.6	-2.0	-4.4
0133-0775	10.0	-16.6	-47.8	4.6	-7.1	-11.7
0134-X012	39.1	-0.5	40.2	4.9	-0.0	2.6
0134-X008	12.9	11.7	35.2	16.8	18.2	15.3
0134-0847	7.6	4.9	15.9	0.8	0.4	0.9
0135-X001	-1.7	3.0	-1.6	-0.4	0.6	-0.2
0135-0753	2.3	6.6	3.3	0.3	0.8	0.3
0135-0761	0.6	-0.6	3.3	0.1	-0.1	0.2
0135-0741	-3.2	2.1	3.5	-0.5	0.2	0.3
0135-0775	3.4	6.5	27.3	0.6	0.9	2.3

0711-L939	1.8	5.8	8.5	0.4	1.0	1.0
0711-X001	5.3	-10.2	-1.9	1.2	-1.7	-0.2
0741-X001	-1.6	0.9	-1.2	-0.2	0.1	-0.1
0753-0761	-1.1	1.0	3.2	-0.2	0.1	0.3
0753-0775	-6.3	7.1	5.5	-1.0	0.9	0.5
0761-0775	-3.5	4.8	4.0	-0.5	0.6	0.3
0775-X007	4.5	-9.2	-15.1	1.0	-1.7	-1.7
0775-X012	-3.8	2.5	2.5	-0.7	0.3	0.2
0847-X007	8.5	-28.1	-13.3	0.9	-2.1	-0.7
0847-X012	19.0	-19.4	12.2	1.5	-1.2	0.5
0847-X008	3.5	8.3	12.8	0.4	0.6	0.7
L014-L142	-1.6	-1.3	-0.1	-0.4	-0.2	-0.0
L014-L144	-3.1	-2.6	1.5	-0.6	-0.4	0.2
L014-L226	-0.2	-3.1	5.0	-0.0	-0.1	0.1
L014-L407	-1.7	-3.3	4.8	-0.4	-0.6	0.6
L014-L783	-0.2	-0.3	0.5	-0.0	-0.1	0.1
L022-L187	-8.7	3.2	17.1	-14.0	5.2	25.2
L022-L231	0.1	0.7	-0.0	0.2	1.6	-0.0
L022-L181	-2.4	-35.8	-3.3	-0.9	-14.8	-0.4
L022-L186	-0.3	-13.3	-27.1	-0.3	-14.1	-25.5
L022-L481	-3.6	-31.9	8.1	-0.8	-5.9	0.8
L022-L876	-0.5	-8.4	-12.9	-0.1	-2.0	-1.9
L022-L881	2.6	-5.5	2.0	3.2	-6.8	2.1
L022-L189	3.1	-1.1	2.0	0.9	-0.3	0.5
L022-L192	7.5	0.2	-6.6	2.5	0.1	-1.7
L022-L193	11.8	2.1	-5.6	3.9	0.6	-1.5
L022-L891	4.7	2.0	-7.7	1.6	0.6	-2.0
L142-L144	-3.9	1.0	-0.4	-0.7	0.2	-0.1
L142-L155	-9.3	-8.1	-4.7	-1.1	-0.8	-0.3
L142-L230	-10.6	-13.8	15.5	-2.3	-2.3	1.9
L142-L783	1.9	1.0	-2.8	0.4	0.1	-0.3
L142-L407	0.0	-0.5	-0.5	0.0	-0.1	-0.1
L144-L226	7.4	-3.5	-0.9	0.3	-0.1	-0.0
L144-L407	-0.9	0.0	-0.1	-0.2	0.0	-0.0
L144-L783	4.6	1.3	-0.4	0.7	0.2	-0.0
L155-L156	-1.0	0.0	-2.5	-0.2	0.0	-0.3
L155-L230	2.2	-1.1	16.8	0.3	-0.1	1.3
L155-L163	-4.5	0.2	-11.6	-0.7	0.0	-0.9
L155-L407	10.6	8.6	10.0	1.3	0.8	0.7
L155-L416	-1.2	-0.0	-2.6	-0.1	-0.0	-0.2
L156-L163	-3.5	-0.1	-8.7	-0.5	-0.0	-0.7
L156-L416	-0.1	-0.1	0.1	-0.0	-0.0	0.0

L163-L165	2.7	1.4	-3.6	0.9	0.4	-0.7
L163-L166	-5.9	-3.5	3.0	-1.8	-0.8	0.5
L163-L168	2.7	2.4	1.6	0.8	0.6	0.2
L163-L447	-2.6	-1.8	-1.8	-0.9	-0.5	-0.3
L163-L416	5.2	1.0	10.9	0.5	0.1	0.6
L165-L166	-2.8	-1.5	-2.4	-1.0	-0.4	-0.5
L165-L168	6.7	7.3	-1.1	2.2	2.1	-0.2
L165-L447	0.1	-0.1	0.0	0.0	-0.1	0.0
L166-L168	-4.1	-2.6	-0.5	-1.8	-1.0	-0.1
L166-L169	-7.1	-4.7	-4.7	-2.7	-1.6	-1.1
L166-L170	3.0	-2.8	8.7	1.1	-0.9	1.9
L166-L447	3.3	3.0	1.6	1.2	1.0	0.3
L166-L456	0.2	5.6	2.3	0.1	1.7	0.5
L168-L447	-3.9	-2.4	-0.8	-1.3	-0.7	-0.1
L168-L456	5.9	8.4	6.6	2.5	3.2	1.9
L168-L169	-1.1	-1.4	-2.3	-0.6	-0.6	-0.9
L168-L170	5.0	-1.6	8.9	2.2	-0.6	2.9
L169-L170	-5.2	-6.5	-1.7	-3.1	-3.8	-0.9
L169-L456	7.3	10.0	6.8	3.9	5.4	2.4
L170-L456	-4.1	-3.7	-2.9	-2.4	-2.5	-1.1
L170-L467	-3.6	-2.2	-5.2	-0.7	-0.4	-0.7
L170-L469	-5.5	-2.8	-3.0	-1.1	-0.5	-0.4
L170-L179	-2.3	0.4	-8.9	-0.4	0.1	-1.1
L179-L180	-0.3	-0.3	2.3	-0.1	-0.1	0.4
L179-L456	-4.0	-2.8	1.4	-0.8	-0.5	0.2
L179-L467	-2.9	-2.3	2.5	-1.1	-0.8	0.6
L179-L469	0.6	1.0	-4.1	0.3	0.5	-1.1
L179-L181	-1.1	-2.9	4.9	-0.4	-0.8	0.8
L179-L481	-1.0	1.6	0.5	-0.2	0.3	0.1
L180-L181	0.3	0.3	-0.8	0.1	0.1	-0.1
L180-L469	-0.3	-0.9	7.1	-0.1	-0.3	1.2
L180-L481	-1.1	1.1	0.9	-0.3	0.2	0.1
L181-L186	0.0	24.1	-27.4	0.0	9.6	-3.5
L181-L469	1.5	0.9	6.6	0.5	0.2	1.1
L181-L876	-2.8	23.7	-17.5	-0.6	5.0	-1.8
L181-L481	-0.4	4.4	-3.9	-0.1	0.9	-0.5
L186-L187	-5.9	2.5	6.5	-6.4	2.6	6.1
L186-L231	2.3	-1.4	-1.8	2.7	-1.6	-1.9
L186-L876	0.1	2.1	10.1	0.0	0.5	1.5
L186-L881	-1.2	1.4	3.5	-1.1	1.3	2.8
L186-L481	0.6	-17.2	36.1	0.1	-3.2	3.6
L187-L231	-1.1	0.1	0.6	-2.4	0.2	1.2

L187-L881	9.0	-6.0	-11.1	10.7	-7.3	-11.3
L189-L192	5.5	0.9	-8.0	1.8	0.3	-3.1
L189-L193	4.0	-1.8	5.1	1.3	-0.6	1.9
L189-L881	-4.2	3.9	1.0	-1.2	1.0	0.3
L189-L891	0.7	-0.5	14.8	0.2	-0.2	5.7
L192-L193	-0.9	0.6	6.6	-0.9	0.5	6.2
L192-L881	-5.9	5.4	-2.2	-1.9	1.5	-0.6
L192-L891	0.1	-0.1	-1.0	0.2	-0.1	-1.4
L193-L194	0.8	-3.6	-4.4	0.3	-1.2	-1.0
L193-L196	12.1	-9.2	13.3	3.2	-2.5	2.4
L193-L216	5.4	-7.9	-7.8	1.4	-1.8	-1.2
L193-L233	6.6	-8.9	-7.2	1.9	-2.2	-1.3
L193-L881	-6.7	8.7	-13.2	-2.2	2.5	-3.5
L193-L891	-0.4	0.4	1.6	-0.4	0.5	1.7
L194-L216	3.5	-5.4	-3.5	0.8	-1.2	-0.5
L194-L891	-1.7	-7.8	-11.0	-0.6	-2.6	-2.4
L194-L196	4.0	-0.3	1.9	1.1	-0.1	0.3
L194-L233	4.5	-6.5	-1.5	1.2	-1.5	-0.2
L196-L199	6.6	-0.3	7.3	1.8	-0.1	1.2
L196-L200	5.3	1.8	19.7	1.4	0.4	3.2
L196-L215	7.3	-0.3	13.9	2.0	-0.1	2.3
L196-L216	-1.1	-1.3	-8.2	-0.3	-0.3	-1.3
L196-L228	9.0	-2.4	6.5	2.4	-0.6	1.1
L196-L891	4.6	-10.5	1.4	1.2	-2.8	0.3
L196-L233	3.7	-2.0	1.0	1.0	-0.5	0.2
L199-L200	-0.2	0.2	-4.3	-0.1	0.1	-1.2
L199-L215	0.4	-0.1	1.3	0.3	-0.0	0.5
L199-L228	2.9	-1.4	-0.2	1.2	-0.5	-0.0
L199-L233	-1.1	0.6	3.4	-0.5	0.3	0.8
L200-L215	-0.7	-0.3	-0.8	-0.3	-0.2	-0.2
L200-L228	3.3	0.4	0.9	1.3	0.1	0.2
L200-L233	-0.4	1.3	-8.3	-0.2	0.5	-1.9
L210-L211	0.9	1.4	0.9	0.4	0.5	0.2
L210-L212	0.3	2.0	7.7	0.1	0.6	1.7
L210-L215	4.5	-19.9	0.5	1.1	-4.1	0.1
L210-L228	8.1	-23.9	6.3	2.6	-6.2	1.1
L210-L232	2.2	2.2	8.4	0.8	0.7	1.7
L210-L235	7.5	-20.4	5.7	1.7	-3.6	0.7
L210-L919	8.6	-16.7	-1.7	1.9	-2.7	-0.2
L210-L229	-4.6	-1.4	-9.3	-1.9	-0.5	-2.1
L211-L212	2.2	0.8	6.1	0.9	0.3	1.3
L211-L229	-3.5	-1.2	-15.3	-1.4	-0.4	-3.3

L211-L232	0.1	0.4	4.8	0.0	0.1	1.0
L212-L229	-3.0	-5.1	-11.3	-1.8	-2.9	-3.9
L212-L232	0.3	-0.3	-0.1	0.2	-0.2	-0.0
L215-L228	2.0	-4.5	9.1	0.9	-1.7	2.2
L215-L229	-3.3	18.8	-17.2	-1.1	5.5	-3.2
L215-L233	0.1	1.0	0.1	0.0	0.4	0.0
L215-L235	-0.3	0.3	0.1	-0.1	0.1	0.0
L215-L919	-1.5	2.3	4.5	-0.4	0.4	0.6
L216-L233	0.5	-0.5	-1.1	0.2	-0.2	-0.2
L216-L891	-6.1	-1.5	-4.1	-1.6	-0.3	-0.6
L226-L783	0.1	-2.6	4.4	0.0	-0.1	0.1
L226-L407	2.5	-3.3	0.5	0.1	-0.1	0.0
L228-L235	-2.1	4.2	-2.1	-0.6	1.0	-0.3
L228-L919	-3.3	5.6	-3.9	-0.9	1.1	-0.5
L228-L229	-6.1	22.2	-21.9	-3.8	11.7	-7.4
L228-L233	-4.1	5.0	3.6	-1.5	1.6	0.8
L229-L232	3.2	5.7	11.9	1.7	3.0	3.7
L229-L235	5.3	-18.9	15.7	1.5	-4.0	2.3
L229-L919	8.3	-11.3	3.8	2.1	-2.1	0.5
L230-L407	7.2	7.8	-5.7	1.5	1.3	-0.7
L231-L881	-1.0	1.4	0.4	-1.4	2.0	0.5
L233-L891	-7.9	-1.3	-4.8	-2.3	-0.3	-0.8
L235-L919	-1.5	1.6	-0.1	-0.4	0.3	-0.0
L407-L783	0.9	2.5	-2.1	0.2	0.4	-0.2
L456-L467	0.8	0.4	-0.1	0.2	0.1	-0.0
L456-L469	-2.5	-1.0	-0.3	-0.5	-0.2	-0.0
L467-L469	-1.3	-1.0	0.7	-0.6	-0.4	0.2
L469-L481	-3.0	7.5	-24.1	-0.7	1.4	-2.9
L481-L876	3.5	23.5	-13.5	0.6	3.6	-1.2
L881-L891	6.5	-6.6	8.5	2.2	-1.9	2.3
L939-X001	3.1	-16.0	-8.8	0.9	-4.1	-1.3
X007-X012	10.6	4.7	26.2	1.6	0.5	2.1
X008-X012	25.2	-37.7	9.6	3.1	-3.7	0.6

Baselines which were rejected by the statistical test are marked.

5. Adjusted Points in WGS84 (Cart. Coordinates and Residuals)

Point	X [m]	Y [m]	Z [m]	resX [mm]	resY [mm]	resZ [mm]
0100	811377.011	-5662301.078	2811952.039	-0.0	0.0	-0.0
0105	813892.115	-5665378.384	2805065.785	-----	-----	-----
0111	815267.774	-5668600.937	2798193.189	-----	-----	-----

0115	816774.473	-5671643.317	2791627.509	-----	-----	-----
0130	814312.029	-5663928.203	2807853.069	0.0	0.0	0.0
0131	813955.555	-5664841.230	2806134.616	0.0	0.0	0.0
0132	817033.143	-5671274.571	2792293.795	0.0	0.0	-0.0
0133	818349.782	-5670846.527	2792772.822	-0.0	0.0	0.0
0134	825656.210	-5678544.218	2775043.968	-0.0	0.0	-0.0
0135	814106.917	-5665731.138	2804296.174	-----	-----	-----
0711	812615.245	-5663532.302	2809135.679	-----	-----	-----
0741	814831.971	-5667191.118	2801157.439	-----	-----	-----
0753	815366.437	-5668873.716	2797616.829	-----	-----	-----
0761	816018.463	-5669991.731	2795174.558	-----	-----	-----
0775	816584.843	-5671410.259	2792154.622	-----	-----	-----
0847	825848.529	-5680789.020	2770422.730	-----	-----	-----
L014	775227.488	-5656890.738	2832821.442	-0.0	0.0	-0.0
L022	799677.726	-5657896.439	2824060.282	-----	-----	-----
L142	775842.550	-5657600.365	2831245.180	-----	-----	-----
L144	776237.903	-5658596.154	2829163.640	-----	-----	-----
L155	779746.248	-5660354.604	2824703.919	-----	-----	-----
L156	780988.638	-5660534.873	2824004.822	-----	-----	-----
L163	783315.784	-5661046.143	2822346.650	-----	-----	-----
L165	784282.037	-5661102.661	2821966.336	-----	-----	-----
L166	785199.151	-5661118.213	2821683.444	-----	-----	-----
L168	785809.269	-5661117.375	2821515.674	-----	-----	-----
L169	786572.214	-5661154.074	2821230.616	-----	-----	-----
L170	787119.914	-5661112.634	2821162.374	-----	-----	-----
L179	790930.086	-5660031.725	2822256.588	-----	-----	-----
L180	791524.539	-5659775.985	2822600.148	-----	-----	-----
L181	792145.091	-5659504.548	2822967.794	0.0	0.0	-0.0
L186	799212.113	-5657813.356	2824356.176	-----	-----	-----
L187	799655.886	-5657877.274	2824104.275	-----	-----	-----
L189	801341.213	-5657939.569	2823506.721	-----	-----	-----
L192	802570.036	-5658113.095	2822814.440	-----	-----	-----
L193	803054.615	-5658191.523	2822521.052	-----	-----	-----
L194	803693.412	-5658327.747	2822068.875	-----	-----	-----
L196	804467.776	-5658568.369	2821370.983	-----	-----	-----
L199	805881.431	-5659326.212	2819460.314	-----	-----	-----
L200	806310.531	-5659362.881	2819265.734	-----	-----	-----
L210	810373.697	-5661447.338	2813944.547	-----	-----	-----
L211	810733.431	-5661719.354	2813297.767	-----	-----	-----
L212	811306.759	-5662209.206	2812155.064	-----	-----	-----
L215	806014.263	-5659354.086	2819366.686	-----	-----	-----
L216	805835.764	-5659298.882	2819527.338	-----	-----	-----

L226	778574.382	-5650449.037	2844653.064	-----	-----	-----
L228	807125.385	-5659240.524	2819280.482	0.0	0.0	0.0
L229	809948.943	-5661021.028	2814923.574	0.0	0.0	0.0
L230	777228.484	-5659634.896	2826824.791	0.0	-0.0	0.0
L231	799720.488	-5657806.670	2824239.773	-0.0	0.0	0.0
L232	811447.983	-5662208.764	2812114.559	-----	-----	-----
L233	805525.904	-5659188.243	2819836.330	-----	-----	-----
L235	808401.234	-5659269.424	2818862.739	-----	-----	-----
L407	776106.245	-5658443.005	2829502.266	-----	-----	-----
L416	776978.397	-5659563.178	2827039.397	-----	-----	-----
L447	784359.039	-5661154.435	2821847.325	-----	-----	-----
L456	786963.818	-5661192.814	2821045.803	-----	-----	-----
L467	790058.580	-5660403.443	2821759.682	-----	-----	-----
L469	790531.332	-5660200.569	2822032.047	-----	-----	-----
L481	793438.157	-5658930.720	2823749.996	-----	-----	-----
L783	774737.322	-5656436.930	2833854.322	-----	-----	-----
L876	798431.524	-5657574.680	2825051.467	-----	-----	-----
L881	799513.329	-5657990.236	2823924.874	-----	-----	-----
L891	802671.109	-5658161.558	2822688.882	-----	-----	-----
L919	808071.096	-5660016.017	2817460.511	-----	-----	-----
L939	811359.162	-5662327.307	2811906.149	-----	-----	-----
X001	813374.241	-5664654.510	2806665.617	-----	-----	-----
X007	824665.501	-5675607.320	2781301.088	0.0	0.0	-0.0
X008	823826.910	-5679297.634	2774052.632	-0.0	0.0	0.0
X012	817272.174	-5672902.092	2788939.099	-----	-----	-----

6. Adjusted Points in WGS84 (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
0100	811377.011	-5662301.078	2811952.039	2.5	6.4	4.7
0105	813892.115	-5665378.384	2805065.785	4.6	6.7	6.0
0111	815267.774	-5668600.937	2798193.189	8.4	9.5	9.5
0115	816774.473	-5671643.317	2791627.509	6.7	8.5	8.2
0130	814312.029	-5663928.203	2807853.069	2.3	6.0	4.2
0131	813955.555	-5664841.230	2806134.616	2.1	4.9	3.5
0132	817033.143	-5671274.571	2792293.795	6.0	7.7	7.3
0133	818349.782	-5670846.527	2792772.822	6.1	7.7	7.3
0134	825656.210	-5678544.218	2775043.968	13.1	17.2	16.1
0135	814106.917	-5665731.138	2804296.174	5.1	7.0	6.4
0711	812615.245	-5663532.302	2809135.679	5.8	8.1	7.1
0741	814831.971	-5667191.118	2801157.439	8.9	10.2	10.0
0753	815366.437	-5668873.716	2797616.829	8.6	9.8	9.9

0761	816018.463	-5669991.731	2795174.558	9.7	10.9	10.8
0775	816584.843	-5671410.259	2792154.622	6.4	8.2	7.9
0847	825848.529	-5680789.020	2770422.730	18.5	22.4	21.3
L014	775227.488	-5656890.738	2832821.442	15.2	20.3	18.4
L022	799677.726	-5657896.439	2824060.282	7.4	10.4	9.5
L142	775842.550	-5657600.365	2831245.180	15.6	20.7	18.9
L144	776237.903	-5658596.154	2829163.640	15.6	20.8	19.0
L155	779746.248	-5660354.604	2824703.919	14.1	18.2	17.1
L156	780988.638	-5660534.873	2824004.822	14.4	18.2	17.3
L163	783315.784	-5661046.143	2822346.650	12.2	15.1	14.5
L165	784282.037	-5661102.661	2821966.336	12.0	14.8	14.3
L166	785199.151	-5661118.213	2821683.444	11.7	14.4	13.9
L168	785809.269	-5661117.375	2821515.674	11.6	14.2	13.6
L169	786572.214	-5661154.074	2821230.616	11.4	14.0	13.5
L170	787119.914	-5661112.634	2821162.374	11.3	13.9	13.4
L179	790930.086	-5660031.725	2822256.588	9.3	11.7	11.5
L180	791524.539	-5659775.985	2822600.148	9.1	11.6	11.5
L181	792145.091	-5659504.548	2822967.794	8.4	10.6	10.1
L186	799212.113	-5657813.356	2824356.176	7.5	10.4	9.6
L187	799655.886	-5657877.274	2824104.275	7.4	10.4	9.5
L189	801341.213	-5657939.569	2823506.721	7.7	10.6	9.8
L192	802570.036	-5658113.095	2822814.440	7.4	10.4	9.5
L193	803054.615	-5658191.523	2822521.052	7.3	10.4	9.5
L194	803693.412	-5658327.747	2822068.875	7.4	10.6	9.7
L196	804467.776	-5658568.369	2821370.983	7.2	10.4	9.5
L199	805881.431	-5659326.212	2819460.314	5.9	9.8	8.4
L200	806310.531	-5659362.881	2819265.734	5.9	9.8	8.5
L210	810373.697	-5661447.338	2813944.547	4.2	7.8	6.3
L211	810733.431	-5661719.354	2813297.767	4.1	7.7	6.3
L212	811306.759	-5662209.206	2812155.064	2.9	6.8	5.1
L215	806014.263	-5659354.086	2819366.686	5.8	9.7	8.3
L216	805835.764	-5659298.882	2819527.338	6.7	10.4	9.3
L226	778574.382	-5650449.037	2844653.064	33.4	36.3	35.3
L228	807125.385	-5659240.524	2819280.482	5.0	9.2	7.5
L229	809948.943	-5661021.028	2814923.574	3.4	7.6	5.8
L230	777228.484	-5659634.896	2826824.791	13.2	18.9	16.4
L231	799720.488	-5657806.670	2824239.773	7.4	10.4	9.5
L232	811447.983	-5662208.764	2812114.559	3.0	6.9	5.2
L233	805525.904	-5659188.243	2819836.330	6.1	9.9	8.7
L235	808401.234	-5659269.424	2818862.739	6.5	10.2	8.7
L407	776106.245	-5658443.005	2829502.266	15.5	20.6	18.7
L416	776978.397	-5659563.178	2827039.397	17.7	21.2	20.4

L447	784359.039	-5661154.435	2821847.325	12.0	14.7	14.2
L456	786963.818	-5661192.814	2821045.803	11.4	14.0	13.4
L467	790058.580	-5660403.443	2821759.682	9.7	12.2	11.8
L469	790531.332	-5660200.569	2822032.047	9.4	11.9	11.6
L481	793438.157	-5658930.720	2823749.996	9.8	11.8	11.5
L783	774737.322	-5656436.930	2833854.322	15.8	20.9	19.1
L876	798431.524	-5657574.680	2825051.467	8.6	11.5	11.0
L881	799513.329	-5657990.236	2823924.874	7.5	10.4	9.5
L891	802671.109	-5658161.558	2822688.882	7.3	10.4	9.5
L919	808071.096	-5660016.017	2817460.511	6.9	10.4	9.0
L939	811359.162	-5662327.307	2811906.149	2.8	6.9	5.5
X001	813374.241	-5664654.510	2806665.617	3.7	6.2	5.0
X007	824665.501	-5675607.320	2781301.088	10.9	13.9	13.2
X008	823826.910	-5679297.634	2774052.632	13.2	17.8	16.5
X012	817272.174	-5672902.092	2788939.099	9.9	11.6	11.4

7. Adjusted Points in WGS84 (Geogr. Coordinates and Std.Dev.)

Point	Lat [Deg]	Lon [Deg]	ell.H [m]	orth.H [m]	geoid.H [m]	sN [mm]	sE [mm]	sH [mm]
0100	N26° 19' 51.10027"	W81° 50' 43.21517"	-22.050	-22.050	0.000	2.6	2.3	7.5
0105	N26° 15' 41.50823"	W81° 49' 29.22307"	-21.615	-21.615	0.000	4.0	4.5	8.1
0111	N26° 11' 32.56802"	W81° 48' 56.68457"	-21.846	-21.846	0.000	6.5	8.3	11.8
0115	N26° 07' 34.86214"	W81° 48' 18.59138"	-20.906	-20.906	0.000	5.6	6.6	10.4
0130	N26° 17' 22.50719"	W81° 49' 06.80701"	-21.271	-21.271	0.000	2.4	2.1	7.1
0131	N26° 16' 20.16810"	W81° 49' 24.20689"	-17.302	-17.302	0.000	2.0	1.9	5.7
0132	N26° 07' 58.99507"	W81° 48' 07.48262"	-22.039	-22.039	0.000	5.0	6.0	9.3
0133	N26° 08' 16.34367"	W81° 47' 18.37079"	-22.689	-22.689	0.000	5.1	6.1	9.4
0134	N25° 57' 35.12018"	W81° 43' 37.95014"	-22.717	-22.717	0.000	11.1	13.1	20.9
0135	N26° 15' 13.62278"	W81° 49' 23.36883"	-21.563	-21.563	0.000	4.3	4.9	8.5
0711	N26° 18' 08.98408"	W81° 50' 05.32346"	-20.655	-20.655	0.000	4.5	5.7	9.9
0741	N26° 13' 19.90081"	W81° 49' 04.99455"	-20.442	-20.442	0.000	6.9	8.7	12.6
0753	N26° 11' 11.68909"	W81° 48' 54.56594"	-21.332	-21.332	0.000	6.7	8.6	12.2
0761	N26° 09' 43.27588"	W81° 48' 37.05860"	-22.149	-22.149	0.000	8.0	9.5	13.3
0775	N26° 07' 53.92758"	W81° 48' 24.15214"	-20.138	-20.138	0.000	5.4	6.4	10.0
0847	N25° 54' 48.11297"	W81° 43' 42.71746"	-21.352	-21.352	0.000	14.6	18.3	27.3
L014	N26° 32' 28.38941"	W82° 11' 48.19457"	-21.948	-21.948	0.000	12.6	14.9	24.5
L022	N26° 27' 10.31743"	W81° 57' 18.70539"	-22.633	-22.633	0.000	6.4	7.4	12.6
L142	N26° 31' 31.15035"	W82° 11' 29.66435"	-22.351	-22.351	0.000	12.9	15.4	24.9
L144	N26° 30' 15.54046"	W82° 11' 20.40495"	-20.754	-20.754	0.000	13.2	15.3	25.0
L155	N26° 27' 33.67447"	W82° 09' 23.55817"	-22.467	-22.467	0.000	11.7	14.0	22.1
L156	N26° 27' 08.29659"	W82° 08' 40.01900"	-22.135	-22.135	0.000	11.9	14.3	22.2
L163	N26° 26' 08.11842"	W82° 07' 19.33804"	-21.898	-21.898	0.000	10.2	12.1	18.4

L165	N26° 25' 54.32640"	W82° 06' 45.07396"	-22.405	-22.405	0.000	10.1	11.9	18.0
L166	N26° 25' 44.05123"	W82° 06' 12.36560"	-21.764	-21.764	0.000	9.8	11.6	17.5
L168	N26° 25' 37.96898"	W82° 05' 50.55145"	-22.088	-22.088	0.000	9.7	11.4	17.2
L169	N26° 25' 27.63125"	W82° 05' 23.46154"	-22.416	-22.416	0.000	9.6	11.3	17.0
L170	N26° 25' 25.14878"	W82° 05' 03.67827"	-22.019	-22.019	0.000	9.5	11.2	16.9
L179	N26° 26' 04.86215"	W82° 02' 42.10059"	-22.627	-22.627	0.000	7.7	9.2	14.5
L180	N26° 26' 17.33127"	W82° 02' 19.57416"	-22.770	-22.770	0.000	7.7	9.1	14.4
L181	N26° 26' 30.67274"	W82° 01' 56.03496"	-22.783	-22.783	0.000	7.0	8.3	12.9
L186	N26° 27' 21.05878"	W81° 57' 34.92808"	-22.792	-22.792	0.000	6.4	7.4	12.6
L187	N26° 27' 11.91613"	W81° 57' 19.38918"	-22.762	-22.762	0.000	6.4	7.4	12.6
L189	N26° 26' 50.22282"	W81° 56' 19.46963"	-22.322	-22.322	0.000	6.9	7.7	12.7
L192	N26° 26' 25.10109"	W81° 55' 36.43375"	-22.372	-22.372	0.000	6.4	7.3	12.6
L193	N26° 26' 14.45701"	W81° 55' 19.51497"	-22.518	-22.518	0.000	6.4	7.2	12.6
L194	N26° 25' 58.05096"	W81° 54' 57.37972"	-22.642	-22.642	0.000	6.5	7.3	12.9
L196	N26° 25' 32.72369"	W81° 54' 30.93264"	-22.380	-22.380	0.000	6.3	7.1	12.7
L199	N26° 24' 23.39868"	W81° 53' 44.28060"	-22.124	-22.124	0.000	5.3	5.8	11.8
L200	N26° 24' 16.33693"	W81° 53' 29.13887"	-21.948	-21.948	0.000	5.4	5.8	11.8
L210	N26° 21' 03.35598"	W81° 51' 14.66692"	-22.793	-22.793	0.000	3.9	4.1	9.3
L211	N26° 20' 39.90496"	W81° 51' 03.21454"	-22.860	-22.860	0.000	3.8	4.0	9.2
L212	N26° 19' 58.46707"	W81° 50' 45.25292"	-22.432	-22.432	0.000	3.0	2.7	8.0
L215	N26° 24' 20.00446"	W81° 53' 39.67736"	-22.273	-22.273	0.000	5.3	5.7	11.7
L216	N26° 24' 25.83326"	W81° 53' 45.77293"	-22.316	-22.316	0.000	6.1	6.6	12.6
L226	N26° 39' 38.34677"	W82° 09' 16.65548"	-22.859	-22.859	0.000	24.1	33.1	44.7
L228	N26° 24' 16.85484"	W81° 52' 59.40825"	-20.888	-20.888	0.000	4.7	4.9	11.0
L229	N26° 21' 38.81636"	W81° 51' 27.65392"	-20.220	-20.220	0.000	3.4	3.2	8.9
L230	N26° 28' 50.65744"	W82° 10' 50.06796"	-22.485	-22.485	0.000	11.0	12.9	22.6
L231	N26° 27' 16.73884"	W81° 57' 16.72347"	-16.896	-16.896	0.000	6.4	7.4	12.6
L232	N26° 19' 57.00506"	W81° 50' 40.20962"	-22.839	-22.839	0.000	3.2	2.8	8.1
L233	N26° 24' 37.03967"	W81° 53' 56.27947"	-22.105	-22.105	0.000	5.6	6.0	12.0
L235	N26° 24' 01.67889"	W81° 52' 13.98275"	-19.548	-19.548	0.000	5.5	6.4	12.2
L407	N26° 30' 27.84635"	W82° 11' 24.36388"	-21.419	-21.419	0.000	12.8	15.2	24.8
L416	N26° 28' 58.42122"	W82° 10' 58.66151"	-20.836	-20.836	0.000	13.9	17.6	26.0
L447	N26° 25' 49.96906"	W82° 06' 42.57761"	-19.994	-19.994	0.000	10.0	11.8	18.0
L456	N26° 25' 20.91927"	W82° 05' 09.65628"	-22.022	-22.022	0.000	9.5	11.2	17.0
L467	N26° 25' 46.82295"	W82° 03' 15.10726"	-22.100	-22.100	0.000	8.0	9.6	15.0
L469	N26° 25' 56.70827"	W82° 02' 57.19687"	-22.249	-22.249	0.000	7.8	9.3	14.7
L481	N26° 26' 59.05634"	W82° 01' 06.93941"	-22.620	-22.620	0.000	7.7	9.7	14.6
L783	N26° 33' 05.90678"	W82° 12' 03.51339"	-22.055	-22.055	0.000	13.0	15.6	25.3
L876	N26° 27' 46.28550"	W81° 58' 01.62553"	-22.271	-22.271	0.000	7.4	8.5	14.1
L881	N26° 27' 05.36702"	W81° 57' 25.05503"	-20.397	-20.397	0.000	6.4	7.4	12.6
L891	N26° 26' 20.54854"	W81° 55' 33.06753"	-22.602	-22.602	0.000	6.4	7.2	12.6
L919	N26° 23' 10.86439"	W81° 52' 29.58215"	-22.638	-22.638	0.000	5.6	6.8	12.6

L939	N26° 19' 49.42616"	W81° 50' 43.98645"	-21.404	-21.404	0.000	3.4	2.7	8.2
X001	N26° 16' 39.48679"	W81° 49' 43.98899"	-22.078	-22.078	0.000	3.2	3.5	7.4
X007	N26° 01' 21.29577"	W81° 43' 58.01197"	-21.146	-21.146	0.000	9.1	10.9	16.9
X008	N25° 56' 59.29132"	W81° 44' 46.91206"	-22.585	-22.585	0.000	11.2	13.1	21.6
X012	N26° 05' 57.58749"	W81° 48' 07.32015"	-21.726	-21.726	0.000	7.7	9.8	14.3

8. Adjusted Points in National System (Plane Coord. and Residuals)

Point	N [m]	E [m]	ell.H [m]	resN [mm]	resE [mm]	resH [mm]
0100	2912601.506	415637.112	-22.020	0.0	0.0	0.0
0105	2904909.452	417639.408	-21.571	-----	-----	-----
0111	2897245.079	418493.808	-21.789	-----	-----	-----
0115	2889925.526	419505.797	-20.836	-----	-----	-----
0130	2908012.765	418280.867	-21.231	0.0	-0.0	-0.0
0131	2906097.947	417786.118	-17.260	0.0	-0.0	-0.0
0132	2890666.060	419818.879	-21.971	0.0	-0.0	-0.0
0133	2891191.443	421185.932	-22.620	0.0	-0.0	-0.0
0134	2871429.243	427196.687	-22.612	0.0	0.0	-0.0
0135	2904050.517	417796.347	-21.517	-----	-----	-----
0711	2909453.018	416667.283	-20.618	-----	-----	-----
0741	2900548.621	418283.983	-20.390	-----	-----	-----
0753	2896602.372	418548.579	-21.273	-----	-----	-----
0761	2893879.316	419017.560	-22.086	-----	-----	-----
0775	2890513.024	419355.005	-20.070	-----	-----	-----
0847	2866292.266	427035.531	-21.239	-----	-----	-----
L014	2936179.099	380783.839	-21.983	0.0	0.0	0.0
L022	2926191.076	404773.038	-22.633	-----	-----	-----
L142	2934413.164	381280.287	-22.383	-----	-----	-----
L144	2932084.393	381515.014	-20.782	-----	-----	-----
L155	2927074.544	384704.861	-22.485	-----	-----	-----
L156	2926282.932	385903.675	-22.151	-----	-----	-----
L163	2924411.702	388122.012	-21.909	-----	-----	-----
L165	2923979.115	389067.433	-22.415	-----	-----	-----
L166	2923655.174	389970.748	-21.772	-----	-----	-----
L168	2923462.872	390573.421	-22.096	-----	-----	-----
L169	2923138.432	391321.149	-22.422	-----	-----	-----
L170	2923057.425	391868.537	-22.025	-----	-----	-----
L179	2924246.853	395800.416	-22.632	-----	-----	-----
L180	2924625.440	396427.474	-22.774	-----	-----	-----
L181	2925030.671	397082.760	-22.787	0.0	-0.0	0.0
L186	2926524.897	404326.229	-22.793	-----	-----	-----
L187	2926240.403	404754.467	-22.762	-----	-----	-----

L189	2925560.754	406409.014	-22.319	-----	-----	-----
L192	2924779.203	407595.345	-22.367	-----	-----	-----
L193	2924448.355	408061.600	-22.512	-----	-----	-----
L194	2923939.221	408671.105	-22.636	-----	-----	-----
L196	2923154.801	409398.158	-22.371	-----	-----	-----
L199	2921012.876	410675.607	-22.111	-----	-----	-----
L200	2920792.703	411093.606	-21.934	-----	-----	-----
L210	2914830.240	414779.883	-22.767	-----	-----	-----
L211	2914106.656	415092.566	-22.833	-----	-----	-----
L212	2912828.520	415582.104	-22.403	-----	-----	-----
L215	2920907.563	410802.416	-22.260	-----	-----	-----
L216	2921088.066	410634.783	-22.303	-----	-----	-----
L226	2949369.784	385096.968	-22.912	-----	-----	-----
L228	2920802.964	411917.417	-20.874	0.0	-0.0	0.0
L229	2915923.593	414427.159	-20.196	0.0	-0.0	-0.0
L230	2929464.942	382330.829	-22.508	0.0	0.0	0.0
L231	2926388.234	404829.393	-16.896	0.0	-0.0	-0.0
L232	2912782.625	415721.622	-22.808	-----	-----	-----
L233	2921434.873	410346.107	-22.093	-----	-----	-----
L235	2920327.493	413172.794	-19.532	-----	-----	-----
L407	2932464.041	381408.929	-21.448	-----	-----	-----
L416	2929706.008	382095.083	-20.860	-----	-----	-----
L447	2923844.453	389135.424	-20.003	-----	-----	-----
L456	2922928.690	391701.837	-22.028	-----	-----	-----
L467	2923699.295	394881.615	-22.104	-----	-----	-----
L469	2923999.384	395380.218	-22.254	-----	-----	-----
L481	2925893.111	398449.487	-22.625	-----	-----	-----
L783	2937337.420	380370.716	-22.093	-----	-----	-----
L876	2927306.581	403592.719	-22.274	-----	-----	-----
L881	2926040.076	404596.057	-20.396	-----	-----	-----
L891	2924638.466	407687.572	-22.597	-----	-----	-----
L919	2918767.061	412729.978	-22.620	-----	-----	-----
L939	2912550.141	415615.393	-21.373	-----	-----	-----
X001	2906695.795	417241.234	-22.037	-----	-----	-----
X007	2878390.348	426677.765	-21.052	0.0	0.0	-0.0
X008	2870337.816	425272.553	-22.480	0.0	-0.0	-0.0
X012	2886930.988	419800.373	-21.651	-----	-----	-----

9. Adjusted Points in National System (Plane Coord. and Std.Dev.)

Point	N [m]	E [m]	ell.H [m]	orth.H [m]	geoid.H [m]	sN [mm]	sE [mm]	sH [mm]
0100	2912601.506	415637.112	-22.020	-22.020	0.000	2.6	2.3	7.5

0105	2904909.452	417639.408	-21.571	-21.571	0.000	4.0	4.5	8.1
0111	2897245.079	418493.808	-21.789	-21.789	0.000	6.5	8.3	11.8
0115	2889925.526	419505.797	-20.836	-20.836	0.000	5.6	6.6	10.4
0130	2908012.765	418280.867	-21.231	-21.231	0.000	2.4	2.1	7.1
0131	2906097.947	417786.118	-17.260	-17.260	0.000	2.0	1.9	5.7
0132	2890666.060	419818.879	-21.971	-21.971	0.000	5.0	6.0	9.3
0133	2891191.443	421185.932	-22.620	-22.620	0.000	5.1	6.1	9.4
0134	2871429.243	427196.687	-22.612	-22.612	0.000	11.1	13.1	20.9
0135	2904050.517	417796.347	-21.517	-21.517	0.000	4.3	4.9	8.5
0711	2909453.018	416667.283	-20.618	-20.618	0.000	4.5	5.7	9.9
0741	2900548.621	418283.983	-20.390	-20.390	0.000	6.9	8.7	12.6
0753	2896602.372	418548.579	-21.273	-21.273	0.000	6.7	8.6	12.2
0761	2893879.316	419017.560	-22.086	-22.086	0.000	8.0	9.5	13.3
0775	2890513.024	419355.005	-20.070	-20.070	0.000	5.4	6.4	10.0
0847	2866292.266	427035.531	-21.239	-21.239	0.000	14.6	18.3	27.3
L014	2936179.099	380783.839	-21.983	-21.983	0.000	12.6	14.9	24.5
L022	2926191.076	404773.038	-22.633	-22.633	0.000	6.4	7.4	12.6
L142	2934413.164	381280.287	-22.383	-22.383	0.000	12.9	15.4	24.9
L144	2932084.393	381515.014	-20.782	-20.782	0.000	13.2	15.3	25.0
L155	2927074.544	384704.861	-22.485	-22.485	0.000	11.7	14.0	22.1
L156	2926282.932	385903.675	-22.151	-22.151	0.000	11.9	14.3	22.2
L163	2924411.702	388122.012	-21.909	-21.909	0.000	10.2	12.1	18.4
L165	2923979.115	389067.433	-22.415	-22.415	0.000	10.1	11.9	18.0
L166	2923655.174	389970.748	-21.772	-21.772	0.000	9.8	11.6	17.5
L168	2923462.872	390573.421	-22.096	-22.096	0.000	9.7	11.4	17.2
L169	2923138.432	391321.149	-22.422	-22.422	0.000	9.6	11.3	17.0
L170	2923057.425	391868.537	-22.025	-22.025	0.000	9.5	11.2	16.9
L179	2924246.853	395800.416	-22.632	-22.632	0.000	7.7	9.2	14.5
L180	2924625.440	396427.474	-22.774	-22.774	0.000	7.7	9.1	14.4
L181	2925030.671	397082.760	-22.787	-22.787	0.000	7.0	8.3	12.9
L186	2926524.897	404326.229	-22.793	-22.793	0.000	6.4	7.4	12.6
L187	2926240.403	404754.467	-22.762	-22.762	0.000	6.4	7.4	12.6
L189	2925560.754	406409.014	-22.319	-22.319	0.000	6.9	7.7	12.7
L192	2924779.203	407595.345	-22.367	-22.367	0.000	6.4	7.3	12.6
L193	2924448.355	408061.600	-22.512	-22.512	0.000	6.4	7.2	12.6
L194	2923939.221	408671.105	-22.636	-22.636	0.000	6.5	7.3	12.9
L196	2923154.801	409398.158	-22.371	-22.371	0.000	6.3	7.1	12.7
L199	2921012.876	410675.607	-22.111	-22.111	0.000	5.3	5.8	11.8
L200	2920792.703	411093.606	-21.934	-21.934	0.000	5.4	5.8	11.8
L210	2914830.240	414779.883	-22.767	-22.767	0.000	3.9	4.1	9.3
L211	2914106.656	415092.566	-22.833	-22.833	0.000	3.8	4.0	9.2
L212	2912828.520	415582.104	-22.403	-22.403	0.000	3.0	2.7	8.0

L215	2920907.563	410802.416	-22.260	-22.260	0.000	5.3	5.7	11.7
L216	2921088.066	410634.783	-22.303	-22.303	0.000	6.1	6.6	12.6
L226	2949369.784	385096.968	-22.912	-22.912	0.000	24.1	33.1	44.7
L228	2920802.964	411917.417	-20.874	-20.874	0.000	4.7	4.9	11.0
L229	2915923.593	414427.159	-20.196	-20.196	0.000	3.4	3.2	8.9
L230	2929464.942	382330.829	-22.508	-22.508	0.000	11.0	12.9	22.6
L231	2926388.234	404829.393	-16.896	-16.896	0.000	6.4	7.4	12.6
L232	2912782.625	415721.622	-22.808	-22.808	0.000	3.2	2.8	8.1
L233	2921434.873	410346.107	-22.093	-22.093	0.000	5.6	6.0	12.0
L235	2920327.493	413172.794	-19.532	-19.532	0.000	5.5	6.4	12.2
L407	2932464.041	381408.929	-21.448	-21.448	0.000	12.8	15.2	24.8
L416	2929706.008	382095.083	-20.860	-20.860	0.000	13.9	17.6	26.0
L447	2923844.453	389135.424	-20.003	-20.003	0.000	10.0	11.8	18.0
L456	2922928.690	391701.837	-22.028	-22.028	0.000	9.5	11.2	17.0
L467	2923699.295	394881.615	-22.104	-22.104	0.000	8.0	9.6	15.0
L469	2923999.384	395380.218	-22.254	-22.254	0.000	7.8	9.3	14.7
L481	2925893.111	398449.487	-22.625	-22.625	0.000	7.7	9.7	14.6
L783	2937337.420	380370.716	-22.093	-22.093	0.000	13.0	15.6	25.3
L876	2927306.581	403592.719	-22.274	-22.274	0.000	7.4	8.5	14.1
L881	2926040.076	404596.057	-20.396	-20.396	0.000	6.4	7.4	12.6
L891	2924638.466	407687.572	-22.597	-22.597	0.000	6.4	7.2	12.6
L919	2918767.061	412729.978	-22.620	-22.620	0.000	5.6	6.8	12.6
L939	2912550.141	415615.393	-21.373	-21.373	0.000	3.4	2.7	8.2
X001	2906695.795	417241.234	-22.037	-22.037	0.000	3.2	3.5	7.4
X007	2878390.348	426677.765	-21.052	-21.052	0.000	9.1	10.9	16.9
X008	2870337.816	425272.553	-22.480	-22.480	0.000	11.2	13.1	21.6
X012	2886930.988	419800.373	-21.651	-21.651	0.000	7.7	9.8	14.3

10. Adjusted Points Error Ellipses

Point	A [mm]	B [mm]	Angle [Deg]
0100	2.7	2.3	-22.3
0105	4.6	3.9	69.3
0111	8.4	6.4	-79.3
0115	6.6	5.6	-81.6
0130	2.4	2.0	19.2
0131	2.1	1.8	35.0
0132	6.0	5.0	-81.2
0133	6.1	5.1	-86.0
0134	13.2	11.0	-77.2
0135	5.0	4.3	74.8
0711	5.7	4.4	-79.1

0741	8.8	6.9	80.8
0753	8.7	6.6	-76.6
0761	9.6	7.8	-71.7
0775	6.4	5.4	-78.9
0847	18.5	14.3	-76.8
L014	15.0	12.5	81.4
L022	7.5	6.3	-71.5
L142	15.4	12.9	82.5
L144	15.4	13.2	79.7
L155	14.0	11.7	-89.5
L156	14.3	11.9	-84.4
L163	12.1	10.2	-89.5
L165	11.9	10.1	-89.0
L166	11.6	9.8	-89.1
L168	11.4	9.7	-88.3
L169	11.3	9.6	-87.9
L170	11.2	9.5	-87.2
L179	9.2	7.7	-83.9
L180	9.1	7.7	-82.5
L181	8.3	7.0	89.7
L186	7.5	6.3	-71.5
L187	7.5	6.3	-71.4
L189	7.8	6.7	-69.6
L192	7.4	6.2	-69.1
L193	7.4	6.2	-69.0
L194	7.5	6.4	-68.3
L196	7.3	6.0	-62.9
L199	6.0	5.0	-57.1
L200	6.0	5.1	-57.0
L210	4.3	3.7	-56.3
L211	4.2	3.6	-57.7
L212	3.1	2.6	-22.1
L215	6.0	5.0	-58.5
L216	6.7	5.9	-60.6
L226	33.2	23.9	-82.5
L228	5.2	4.3	-52.0
L229	3.6	3.0	-37.6
L230	13.0	10.9	75.8
L231	7.5	6.2	-71.5
L232	3.2	2.8	-18.3
L233	6.3	5.3	-57.8
L235	6.5	5.4	-71.6

L407	15.3	12.8	80.0
L416	17.8	13.7	-77.1
L447	11.8	10.0	-89.0
L456	11.2	9.5	-87.4
L467	9.6	8.0	-84.3
L469	9.3	7.8	-83.1
L481	9.7	7.7	-85.2
L783	15.6	13.0	83.8
L876	8.5	7.3	-81.8
L881	7.5	6.3	-71.3
L891	7.4	6.2	-69.0
L919	6.9	5.6	-76.4
L939	3.4	2.6	-17.3
X001	3.6	3.1	69.9
X007	10.9	9.1	-81.6
X008	13.3	11.0	-73.9
X012	9.8	7.7	-84.7