

HIGH PRECISION VERTICAL CONTROL NETWORK MODEL:
Western Gulf Coast, FLORIDA

FINAL REPORT

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INTRODUCTION

As stated in the final report entitled HIGH PRECISION VERTICAL CONTROL NETWORK MODEL: ***NORTHEAST ATLANTIC REGION, FLORIDA*** dated August 12, 2004 there is an on-going effort to develop a consistent and accurate vertical control network state-wide for Florida's Coastline. As part of this effort, University of Florida researchers in collaboration with the Bureau of Beaches and Coastal System (BBCS), collected and adjusted GPS L1/L2 observations for the Western Gulf Coast Region. This is now the second region where such data have been collected and adjusted, furthering the goal to move from the conventionally collected geodetic control surveys of the past to a GPS-based High Accuracy Reference Network (HARN) 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. It is anticipated that the vertical component accuracy goal will be met by conducting a high precision GPS survey of a region at a given time each year. Each regional network will be adjusted annually and ultimately, one consistent vertical control network for the entire coastline controlled by GPS will be developed.

NETWORK DESIGN AND ADJUSTMENT STRATEGY – TIER 1

Similar to the work done in the Northeast Atlantic Region, the determination of high-accuracy elevations along the coastline is done by observing two networks, one being of higher accuracy (Tier 1) and used as control for the adjustment of the other (Tier 2). All Tier 1 stations are tied directly to the CORS network by two three-hour GPS sessions using high quality GPS receivers, choke-ring antennas and fixed height tripods. These observations are the ultimate basis for all GPS-derived ellipsoid heights in both Tier 1 and Tier 2 stations. Field procedures generally follow the data collection guidelines set out by "Guidelines for Establishing Ellipsoid Heights Using the Global Positioning System", (Carter and Shrestha 1998). In the Western Gulf Coast Region, thirty-two Tier 1 stations were observed by FDEP field crews over the dates of March 2 through March 18, 2004. Figure 1 (below) is a map of the Western part of Florida's panhandle,

showing the locations of the CORS used and the location of the Tier 1 stations. Figure 2 is a diagram of the vectors observed in Tier 1, each line represents two (2) sessions.



Figure 1. Location of Tier 1 stations and CORS used – RED triangles are CORS, BLUE triangles are Tier 1 stations.

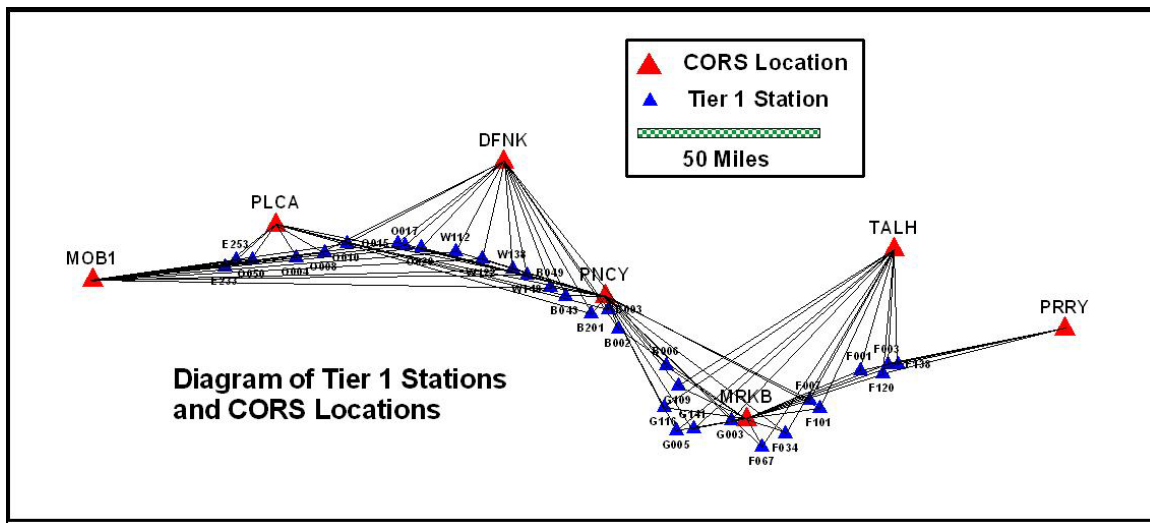


Figure 2. Vectors observed in Tier 1. Each line represents two (2) sessions.

The GPS field observation files were provided to the GEM center in raw Ashtech format by the FDEP. These high-quality GPS observations were then converted to RINEX and

processed by the GEM center using PAGES software, written by NGS and implemented through the On-Line User Positioning Service known as OPUS. The PAGES results were analyzed to ensure they met the required precision, and then adjusted by weighted average calculation, which is of course, a simple least-squares adjustment most appropriate for these data. Since the differences between RMS values for each session as reported by PAGES were functionally zero, a simple unweighted average was performed on coordinates between sessions to obtain final values, shown below in Table 1.

Horizontal Datum: NAD83 (CORS96)(EPOCH:2002.0000)		ADJUSTED		
		SPC	SPC	Elevation
Station Name	SSN	Northing	Easting	NAVD88
4884A15	E233	484060.38	1047317.38	18.76
9909C	E253	494117.11	1063553.41	13.31
PAYNE 1942	O050	493773.49	1086278.23	10.81
4884B21	O004	497240.65	1149724.16	4.85
OPAL 95	O008	504332.77	1190768.96	6.44
SANTA ROSA	O010	516842.24	1223390.80	24.31
K297	O015	517579.45	1297427.34	8.43
ARIUM	O017	513816.68	1307451.16	6.77
CHARLES	O020	511595.91	1330764.27	19.12
6076A05	W112	504861.72	1381189.89	33.13
6076A13	W122	495575.87	1418183.27	8.23
6076A24	W138	479740.74	1463064.52	26.73
6076A30	W148	471271.93	1484164.62	30.28
4676B06	B049	453937.85	1518038.41	23.11
4676B15	B043	441463.67	1538957.07	23.79
PARK 1956	B201	415551.14	1576722.88	22.24
9108L	B003	421018.72	1600743.94	8.93
FLGPS 7	B002	394360.35	1615899.29	25.19
51 83 B20	G116	281077.19	1681219.90	6.26
46 76 A04	B006	340151.29	1684451.99	19.42
C339 1977	G005	246625.67	1699828.89	5.84
51 83 B08	G109	311823.16	1702383.11	9.55
51 83 B39	G141	249341.75	1724255.33	7.72
WEST 1960	G003	262106.79	1778590.85	14.74
48 80 B01	F067	223758.14	1823201.92	13.72
D340 1977	F034	243072.03	1857098.05	9.61
S 293 1967	F007	291156.12	1891712.74	23.42
49 80 B34	F101	279251.96	1906159.52	7.31
83 60L 1988	F001	333263.34	1964793.06	6.17
49 80 D03	F120	328452.54	1997657.89	3.60
DNR G	F003	342971.85	2004392.04	11.55
49 80 D20	F138	342399.58	2019675.48	5.51

Table 1. Adjusted Coordinates for Tier 1 Stations.

This table is attached as a Microsoft Excel Spreadsheet, Tier_1_SPC_feet.XLS. Note that GEOID03 geoid model (NOAA) was used to calculate NAVD88 elevation from GPS-measured ellipsoid height.

TIER1 ANALYSIS

For all 32 pairs of Tier 1 sessions the maximum session difference in ellipsoid height as processed by PAGES was 0.11 feet. The mean difference between sessions was -0.001 feet, and the standard deviation of the 32 differences was 0.05 feet. These statistics indicate a very high level of repeatability between sessions in the GPS-measured ellipsoid heights of the Tier 1 stations. This repeatability may be slightly optimistic due to the fact that the session pairs were separated in time by approximately 1 hour, so that the satellite constellation of the second session has not changed enough to be considered completely independent. This is in addition to the fact that the 2 sessions were done on the same day, which also decreases the independence of the observations. Still in all, Tier 1 ellipsoid heights are of very high quality.

A comparison was made between the adjusted elevation of the Tier 1 stations and their NGS published elevations. The results are presented in Table 2.

All values in Feet						
SSN	Elevation	Published Elevation	Elevation Difference	GEOID03 Height	GEOID99 Height	Geoid height Difference
E233	18.76			-90.15	-89.52	-0.62
E253	13.31	13.44	-0.13	-90.14	-89.54	-0.60
O050	10.81	11.08	-0.27	-89.91	-89.32	-0.59
O004	4.85			-89.48	-88.92	-0.56
O008	6.44			-89.40	-88.80	-0.59
O010	24.31	24.60	-0.29	-89.38	-88.76	-0.62
O015	8.43	9.15	-0.72	-89.42	-88.70	-0.73
O017	6.77	7.72	-0.95	-89.42	-88.68	-0.74
O020	19.12			-89.52	-88.76	-0.76
W112	33.13	33.23	-0.10	-89.78	-89.05	-0.73
W122	8.23	8.37	-0.14	-90.02	-89.32	-0.70
W138	26.73	26.88	-0.15	-90.38	-89.73	-0.65
W148	30.28	30.44	-0.16	-90.52	-89.89	-0.64
B049	23.11	23.65	-0.54	-90.59	-89.96	-0.63
B043	23.79			-90.61	-89.97	-0.64
B201	22.24			-90.61	-89.95	-0.65
B003	8.93	9.10	-0.17	-90.86	-90.26	-0.60
B002	25.19	25.31	-0.12	-90.62	-89.96	-0.66
G116	6.26			-89.14	-88.39	-0.75
B006	19.42	19.59	-0.17	-90.05	-89.36	-0.69
G005	5.84	6.05	-0.21	-88.78	-88.03	-0.75
G109	9.55	10.26	0.71	-89.62	-88.91	-0.71
G141	7.72			-88.88	-88.14	-0.74
G003	14.74	14.96	-0.22	-89.03	-88.32	-0.71
F067	13.72	14.17	-0.45	-88.74	-88.00	-0.74
F034	9.61	9.88	-0.27	-88.69	-87.99	-0.71
F007	23.42	23.67	-0.25	-88.94	-88.37	-0.58

F101	7.31	7.66	-0.35	-88.81	-88.21	-0.61
F001	6.17	6.32	-0.15	-89.04	-88.61	-0.43
F120	3.60	4.30	-0.70	-89.26	-88.81	-0.44
F003	11.55	11.70	-0.15	-89.36	-88.96	-0.40
F138	5.51	6.20	-0.69	-89.54	-89.15	-0.39

Table 2. A comparison of Tier 1 station elevations with published elevations, along with geoid heights from GEOID03 and GEOID99.

These published elevations were provided by FDEP, and it is not certain if they are based on leveling or GPS ellipsoid heights together with a geoid model, and, if so, on which geoid model (Geoid99, Geoid96 being possible). In all cases the new Tier 1 station elevations are lower than their previously published values, by an average of -0.34 feet. The largest difference between Tier 1 elevation and published elevation was at station ARIUM (O017) where the difference is almost -1 foot. The smallest difference is at 6076A05 (W112) where the difference is -0.10 feet. The standard deviation of the differences between Tier 1 elevations and published elevations is 0.25 feet.

Geoid height differences between GEOID03 and GEOID99 ranged from a maximum of -0.76 feet to a minimum of -0.39 feet, with an average difference between the two models of -0.64 feet, and a standard deviation of these differences equal to 0.10 feet. In all cases the new geoid is lower than the older model. It is apparent that there was significant change in the geoid model in this area. We await further improvements.

TIER 2 ADJUSTMENTS

Tier 2 least –squares adjustment was performed by holding all Tier 1 stations fixed in the three-dimensional Cartesian Earth-Centered Earth-Fixed coordinate system (no geoid model or geoid heights are included) and adding additional GPS-measured vectors with either direct or indirect connections to the Tier 2 stations. These additional Tier 2 vectors were provided by FDEP in binary Ashtech O-file format, observed and processed by FDEP using Ashtech processing software. Tier 2 vectors are based on GPS observations that are of shorter duration (approximately 80 minutes) than Tier 1 vectors, and may or may not have been observed using choke-ring antennas and fixed height tripods. Their baseline length is much shorter than Tier 1 vectors, usually less than 10 Km, and probably averages nearer to 5 Km.

The Tier 2 adjustment was done in 4 local networks: each part consisted of at least 4 fixed Tier 1 stations and all relevant Tier 2 stations either directly or indirectly connected to the Tier 1 points. In all, there were a total of 270 new stations connected by over 900 vectors. Eliminated from the adjustment were Tier 2 vectors that directly connected two Tier 1 stations; also eliminated were vectors that had very high a priori component standard deviations. Eliminated vectors constituted less than 1% of the number of vectors provided by FDEP. The Tier 2 adjustments were done using Ashtech Office Suite software (Version 2.0) and the adjustment reports in HTML format are included in this document.

TIER 2 ANALYSES

In general Tier 2 vectors were of good quality. As mentioned above a few poor quality vectors were eliminated rather than de-weighted. Residuals in all three components (Northing, Easting, and Height) averaged less than 1 cm (0.03 feet). Only 40 out of 940 vectors (4.3%) had a height residual greater than 2 cm (0.06 feet). Two hundred fifty-four out of 270 stations (94%) had a standard deviation on the ellipsoid height of less than 3 cm (0.10 feet). Four stations, F111, F032, F322 and F057 had a standard deviation on ellipsoid height greater than 8 cm (0.25 feet). F057 was the worst, with a standard deviation on the ellipsoid height of 18 cm (0.58 feet). This value is large enough to cast doubt on the precision of the height value on this station.

It should be noted that the geoid model (GEOID03) used to calculate NAVD88 elevations from GPS-derived ellipsoid heights will increase the level of uncertainty on the NAVD88 elevations of all stations. This additional uncertainty is estimated by NOAA to be approximately 2 cm (0.06 feet) in the project area (<http://www.ngs.noaa.gov/GEOID/GEOID03/tech.html>.)

Appendix A

TIER 2 Adjustment Part 1

Network Adjustment

<http://www.ashtech.com/>

Ashtech Office Suite for Survey 2.00, Copyright (C) 1997 - 1999 by Ashtech Inc., 10/25/2004,10:03:28 AM

Statistics	
Network Adjustment in NAD83.	
Number of baselines	151
Number of terrestrial measurements	0
Geoidmodel	Southeastern US NOAA96
Number of control points in NAD83	9
Number of adjusted points	59
Confidence level	2 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	0.336
Number of iterations	1

1. Baselines Input in NAD83 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
0601-E223	4553.991	778.659	990.435	49.8	52.3	51.8
0601-O050	21071.286	3589.073	4504.082	222.6	226.4	225.6
0601-E202	1147.455	239.433	326.491	14.2	16.3	16.1
0601-0613	3821.273	609.642	758.450	41.9	44.3	43.9
0613-O050	17250.002	2979.428	3745.631	183.1	186.3	186.1
0613-E202	-2673.818	-370.209	-431.959	29.6	31.6	31.7
0613-E223	732.717	169.016	231.985	10.2	12.1	12.0
0625-O050	13629.728	2477.497	3161.863	146.5	149.4	149.4
0625-E207	-239.451	12.788	39.532	1.8	1.7	1.9
0625-E223	-2887.549	-332.903	-351.783	31.5	33.0	33.1
0625-E253	6711.541	2120.534	3104.059	79.9	81.9	82.2
0634-O001	25113.178	3681.025	4249.104	260.1	265.4	263.8
0634-E233	-609.857	-71.092	-70.479	7.5	9.1	8.8
0634-O050	11099.580	2117.141	2740.405	119.7	121.3	122.0
0634-E207	-2769.601	-347.589	-381.925	16.9	16.1	16.5
0634-E208	716.446	152.699	202.718	9.2	11.4	10.8
0634-0644	3038.987	560.774	721.102	33.6	36.0	35.4
0644-O001	22074.184	3120.242	3528.010	228.5	233.8	232.2

0644-E233	-3648.845	-631.866	-791.582	39.8	42.1	41.6
0644-E208	-2322.541	-408.077	-518.384	25.9	28.4	27.8
0692-E224	4690.537	590.782	616.385	50.2	55.2	57.6
0692-E229	-2294.092	-183.436	-120.204	24.8	27.5	27.5
0692-1029	2081.730	244.599	244.195	23.4	27.9	28.2
0692-O050	-6633.649	161.930	820.525	69.5	70.7	71.2
0692-E217	-5487.802	-170.502	171.950	57.6	58.8	59.5
0707-O001	2857.982	1191.951	1794.565	26.5	25.3	25.5
0707-1030	168.597	56.896	81.731	3.7	5.1	5.3
0707-E219	2955.543	426.175	481.480	32.2	33.7	33.8
0707-E225	3632.963	465.614	499.083	38.7	40.1	40.2
0707-E226	6587.727	978.617	1110.150	70.0	71.7	72.0
0707-E230	5170.146	833.281	981.936	55.1	56.3	56.7
0744-O004	-2580.651	-305.979	-300.131	28.5	29.8	30.2
0744-E226	-4085.505	-665.039	-781.558	44.6	45.9	46.4
0744-E227	1634.671	290.175	354.565	19.0	20.1	20.5
0744-E228	1293.692	236.054	288.594	15.5	18.3	17.4
0744-E230	-5503.079	-810.380	-909.766	60.1	60.9	61.6
0744-0763	5571.285	894.997	1035.766	59.5	62.5	61.6
0763-E227	-3936.611	-604.819	-681.198	42.2	44.4	43.8
0763-O004	-8151.935	-1200.976	-1335.902	87.7	90.8	89.6
0763-O008	4227.453	674.755	768.988	45.3	46.6	46.8
0763-E228	-4277.604	-658.947	-747.171	45.9	47.5	47.6
0763-0775	3729.301	569.078	635.118	40.2	41.7	41.9
0775-O008	498.152	105.676	133.870	6.8	8.1	8.2
0775-E228	-8006.905	-1228.026	-1382.288	84.5	86.4	86.6
0775-E235	5086.395	815.269	925.761	54.5	55.9	56.3
0775-0786	3156.759	498.063	563.137	35.0	36.9	36.9
0786-O008	-2658.606	-392.391	-429.267	29.0	30.3	30.5
0786-E235	1929.636	317.207	362.621	22.0	23.1	24.0
0786-E236	7094.194	1004.450	1061.154	75.5	77.6	77.4
0786-O794	2362.556	347.033	377.457	26.2	27.2	27.7
1029-E217	-7569.542	-415.090	-72.252	79.8	82.9	88.4
1029-E224	2608.808	346.171	372.196	29.0	33.8	34.2
1029-E229	-4375.823	-428.035	-364.399	46.2	50.5	50.8
1030-O001	2689.384	1135.055	1712.834	25.1	24.0	24.3
1030-E219	2786.947	369.279	399.749	30.4	32.0	32.1
1030-E225	3464.367	408.718	417.353	37.0	38.4	38.6
BL03-E202	-7919.978	-1886.940	-2619.972	87.5	89.8	89.9
BL03-E233	294.402	-725.530	-1253.260	15.8	16.9	16.8
BL03-BL04	21.012	-13.181	-24.099	1.5	2.8	2.6
BL04-E202	-7940.989	-1873.756	-2595.873	87.9	90.6	90.6
BL04-E233	273.390	-712.350	-1229.160	15.7	17.2	16.9
BW01-BW02	70.069	0.458	-5.325	3.3	4.0	4.9
BW01-E202	-7466.700	-1249.116	-1568.594	78.9	80.3	81.1
BW01-E233	747.677	-87.680	-201.894	8.8	9.7	10.1
BW02-E202	-7536.770	-1249.572	-1563.269	81.9	82.6	83.3
BW02-E233	677.608	-88.139	-196.569	9.9	10.4	11.6

E202-O050	19923.815	3349.636	4177.589	210.6	214.2	214.4
E202-E223	3406.535	539.223	663.945	37.4	39.2	39.3
E202-E233	8214.375	1161.442	1366.691	84.5	84.5	84.5
E207-O050	13869.188	2464.727	3122.332	84.7	81.0	81.9
E207-E223	-2648.098	-345.695	-391.313	17.9	17.9	18.0
E207-E233	2159.743	276.501	311.453	13.3	12.7	13.1
E207-E253	6950.996	2107.736	3064.535	45.5	41.5	43.2
E208-O001	24396.729	3528.328	4046.383	253.0	258.9	257.2
E208-E233	-1326.304	-223.792	-273.197	15.4	17.7	17.1
E217-O050	-1145.846	332.432	648.575	17.2	18.0	19.0
E217-E224	10178.352	761.255	444.444	108.8	121.2	134.1
E217-E229	3193.711	-12.934	-292.156	34.6	35.7	36.4
E219-O001	-97.562	765.777	1313.085	9.4	9.1	9.2
E219-E225	677.420	39.439	17.603	8.5	9.9	10.0
E219-E226	3632.189	552.431	628.673	39.6	41.2	41.6
E219-E230	2214.608	407.094	500.460	25.2	26.7	27.2
E223-O050	16517.287	2810.410	3513.640	175.3	178.3	178.1
E223-E253	9599.107	2453.441	3455.851	109.2	112.2	112.6
E224-E229	-6984.630	-774.211	-736.592	73.1	76.5	76.2
E225-O001	-774.982	726.339	1295.482	12.7	12.1	12.3
E225-E226	2954.767	512.997	611.066	32.8	34.2	34.4
E225-E230	1537.185	367.662	482.851	18.5	19.8	20.3
E226-O004	1504.854	359.061	481.427	18.5	19.8	20.2
E226-E227	5720.176	955.214	1136.124	61.8	63.2	63.6
E226-E230	-1417.574	-145.341	-128.210	12.6	12.7	12.7
E227-O004	-4215.321	-596.154	-654.697	46.4	47.5	48.3
E227-E228	-340.982	-54.124	-65.974	5.2	7.2	6.7
E227-E230	-7137.750	-1100.555	-1264.332	75.7	76.8	77.3
E228-O008	8505.057	1333.702	1516.158	89.6	91.5	91.6
E228-O004	-3874.342	-542.032	-588.729	43.8	46.7	46.0
E229-O050	-4339.558	345.367	940.730	46.8	47.9	48.4
E230-O004	2922.429	504.401	609.633	32.5	33.7	34.2
E233-O001	25723.038	3752.120	4319.578	266.4	271.4	269.9
E233-E253	4791.263	1831.256	2753.080	60.2	61.4	61.6
E235-O008	-4588.242	-709.597	-791.892	49.2	50.7	51.1
E235-O010	5148.775	1848.016	2681.211	44.5	42.9	42.0
E235-E236	5164.560	687.244	698.532	55.3	57.2	57.4
E235-O794	432.921	29.827	14.834	5.9	8.2	7.5
E236-O010	-15.789	1160.767	1982.679	17.3	17.0	16.1
E236-O794	-4731.640	-657.418	-683.696	51.1	53.0	52.8
K603-O017	2789.019	128.740	-64.712	30.5	32.7	32.3
K603-O100	-33.672	71.598	121.380	4.7	7.5	7.7
K603-O102	2236.122	107.291	-45.855	17.5	17.3	16.8
K603-K613	3170.946	-32.585	-368.986	34.5	36.8	36.4
K613-O017	-381.927	161.325	304.274	7.2	9.0	8.8
K613-O018	973.425	196.980	226.492	12.2	13.6	14.5
K613-O020	6739.277	308.223	-166.898	34.5	33.6	33.6
K613-O100	-3204.618	104.182	490.366	35.8	38.7	38.9

K613-O102	-934.824	139.870	323.135	8.6	8.8	8.4
K613-K616	848.563	72.464	32.515	10.2	11.2	12.0
K616-O017	-1230.487	88.862	271.757	14.5	15.7	16.4
K616-O018	124.862	124.516	193.977	4.4	5.5	6.2
K616-O020	5890.714	235.762	-199.413	31.4	31.5	31.5
K618-O018	-7756.253	248.598	1217.135	80.7	82.7	82.8
K618-O020	-1990.393	359.860	823.733	10.1	8.8	8.8
K618-O113	2063.195	433.453	524.804	23.6	25.4	25.4
K618-O116	5273.050	404.179	135.404	55.4	58.6	58.0
K618-O021	-90.312	147.693	258.232	5.2	7.6	7.6
K618-O022	3388.565	401.107	328.791	25.2	23.7	23.8
K628-O022	279.710	107.012	152.582	2.5	2.4	2.5
K628-O116	2164.196	110.077	-40.802	24.8	28.0	27.9
K628-O120	5597.855	158.742	-320.051	60.2	66.4	65.1
K628-K646	5697.338	144.475	-356.902	60.2	65.2	63.6
K646-W108	1337.558	6.870	-126.975	10.7	9.9	9.6
K646-O116	-3533.139	-34.408	316.103	37.9	39.6	40.4
K646-O120	-99.498	14.264	36.842	2.6	4.1	5.3
K646-W603	2244.535	-5.528	-245.857	24.2	26.0	26.8
O010-O794	-4715.853	-1818.184	-2666.376	41.8	39.6	38.9
O017-O018	1355.349	35.654	-77.780	15.8	17.3	18.1
O017-O020	7121.212	146.904	-471.178	73.2	74.4	74.3
O017-O102	-552.898	-21.465	18.868	3.7	3.7	3.7
O018-O021	7665.940	-100.914	-958.900	79.7	82.4	82.2
O018-O020	5765.852	111.242	-393.389	29.7	28.8	28.8
O018-O113	9819.447	184.853	-692.332	100.9	102.6	103.1
O020-O021	1900.077	-212.177	-565.499	10.6	10.2	10.1
O020-O113	4053.586	73.587	-298.925	24.4	23.9	23.9
O021-O113	2153.507	285.761	266.571	24.2	26.9	26.7
O022-O113	-1325.382	32.359	196.008	7.2	7.1	7.0
O022-O116	1884.484	3.077	-193.388	10.0	9.7	9.6
O100-O102	2269.792	35.682	-167.226	23.6	23.6	23.6
O113-O116	3209.864	-29.276	-389.399	34.5	36.1	35.8
O116-O120	3433.647	48.677	-279.253	38.3	40.9	42.5
O120-W108	1437.052	-7.393	-163.821	20.5	22.4	23.9
O120-W603	2344.034	-19.792	-282.698	25.4	27.2	28.6
W108-W603	906.978	-12.401	-118.884	7.9	7.8	7.7

Baselines which were rejected by the statistical test are marked.

2. NAD83 Control Points Input (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
E233	248172.381	-5506022.317	3198986.365	0.0	0.0	0.0
O020	333973.658	-5496290.072	3207844.053	0.0	0.0	0.0
O004	279130.050	-5502124.481	3203102.952	0.0	0.0	0.0
O008	291509.453	-5500248.755	3205207.854	0.0	0.0	0.0

O017	326852.435	-5496436.959	3208315.228	0.0	0.0	0.0
E253	252963.651	-5504191.048	3201739.440	0.0	0.0	0.0
O010	301246.493	-5497691.150	3208680.969	0.0	0.0	0.0
O015	323749.125	-5496068.448	3209255.722	0.0	0.0	0.0
O050	259881.842	-5503834.089	3201797.236	0.0	0.0	0.0

3. Adjusted Baselines in NAD83 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
0601-E223	4553.990	778.660	990.434	6.8	7.2	7.2
0601-O050	21071.291	3589.080	4504.068	8.0	8.3	8.3
0601-E202	1147.455	239.432	326.491	4.4	5.1	5.0
0601-0613	3821.274	609.643	758.449	6.7	7.2	7.2
0613-O050	17250.017	2979.437	3745.619	6.3	6.5	6.5
0613-E202	-2673.819	-370.211	-431.958	6.1	6.4	6.4
0613-E223	732.717	169.017	231.985	3.3	3.8	3.8
0625-O050	13629.751	2477.513	3161.853	3.4	3.3	3.4
0625-E207	-239.451	12.788	39.532	0.6	0.6	0.6
0625-E223	-2887.549	-332.907	-351.781	4.9	4.8	4.8
0625-E253	6711.560	2120.554	3104.057	3.4	3.3	3.4
0634-O001	25113.212	3681.022	4249.102	7.3	7.6	7.7
0634-E233	-609.858	-71.092	-70.478	2.2	2.5	2.4
0634-O050	11099.603	2117.136	2740.393	2.2	2.5	2.4
0634-E207	-2769.599	-347.590	-381.929	3.6	3.5	3.6
0634-E208	716.446	152.699	202.718	2.7	3.2	3.1
0634-0644	3038.987	560.775	721.103	6.3	6.8	6.7
0644-O001	22074.225	3120.247	3528.000	9.4	9.9	9.9
0644-E233	-3648.845	-631.867	-791.581	6.4	6.9	6.8
0644-E208	-2322.541	-408.076	-518.384	6.2	6.8	6.7
0692-E224	4690.539	590.773	616.389	8.9	10.1	10.3
0692-E229	-2294.092	-183.435	-120.205	6.7	7.2	7.3
0692-1029	2081.731	244.600	244.195	6.5	7.5	7.6
0692-O050	-6633.651	161.932	820.525	9.4	9.8	10.0
0692-E217	-5487.804	-170.499	171.950	8.8	9.2	9.4
0707-O001	2857.981	1191.952	1794.565	4.3	4.3	4.3
0707-1030	168.597	56.896	81.730	1.2	1.7	1.7
0707-E219	2955.543	426.175	481.480	4.3	4.3	4.4
0707-E225	3632.963	465.614	499.083	4.4	4.5	4.5
0707-E226	6587.726	978.613	1110.147	6.2	6.3	6.4
0707-E230	5170.151	833.273	981.937	5.7	5.9	6.0
0744-O004	-2580.652	-305.978	-300.136	5.6	5.8	5.9
0744-E226	-4085.506	-665.039	-781.560	6.5	6.8	6.8
0744-E227	1634.672	290.177	354.568	3.8	4.3	4.2
0744-E228	1293.690	236.052	288.594	3.8	4.3	4.2
0744-E230	-5503.081	-810.379	-909.770	6.9	7.1	7.2
0744-0763	5571.292	894.996	1035.771	7.5	7.9	7.9
0763-E227	-3936.620	-604.819	-681.203	7.3	7.6	7.6

0763-O004	-8151.944	-1200.974	-1335.906	7.2	7.5	7.5
0763-O008	4227.459	674.752	768.996	7.2	7.5	7.5
0763-E228	-4277.602	-658.944	-747.177	7.3	7.6	7.6
0763-0775	3729.307	569.076	635.126	7.3	7.7	7.7
0775-O008	498.152	105.676	133.870	2.2	2.6	2.6
0775-E228	-8006.909	-1228.019	-1382.303	5.9	6.3	6.3
0775-E235	5086.406	815.270	925.767	5.8	6.0	6.0
0775-0786	3156.767	498.065	563.143	5.8	6.1	6.1
0786-O008	-2658.615	-392.388	-429.273	5.6	5.8	5.9
0786-E235	1929.639	317.205	362.624	4.9	5.2	5.3
0786-E236	7094.210	1004.449	1061.161	7.1	7.2	7.2
0786-O794	2362.560	347.032	377.459	5.0	5.3	5.4
1029-E217	-7569.535	-415.099	-72.244	9.8	10.5	10.8
1029-E224	2608.808	346.173	372.194	8.1	9.2	9.4
1029-E229	-4375.823	-428.035	-364.399	8.0	8.9	8.9
1030-O001	2689.384	1135.056	1712.835	4.3	4.3	4.3
1030-E219	2786.947	369.279	399.749	4.3	4.3	4.4
1030-E225	3464.367	408.718	417.353	4.4	4.5	4.5
BL03-E202	-7919.974	-1886.949	-2619.966	8.0	8.2	8.2
BL03-E233	294.401	-725.530	-1253.260	3.7	4.0	4.0
BL03-BL04	21.012	-13.181	-24.099	0.5	0.9	0.9
BL04-E202	-7940.985	-1873.768	-2595.866	8.0	8.2	8.2
BL04-E233	273.390	-712.349	-1229.161	3.7	4.0	4.0
BW01-BW02	70.069	0.458	-5.325	1.1	1.3	1.6
BW01-E202	-7466.698	-1249.100	-1568.600	7.5	7.7	7.8
BW01-E233	747.677	-87.681	-201.894	2.2	2.4	2.5
BW02-E202	-7536.767	-1249.558	-1563.274	7.6	7.7	7.8
BW02-E233	677.608	-88.138	-196.568	2.2	2.4	2.6
E202-O050	19923.836	3349.647	4177.577	7.3	7.4	7.5
E202-E223	3406.536	539.228	663.943	6.1	6.4	6.4
E202-E233	8214.375	1161.419	1366.706	7.3	7.4	7.5
E207-O050	13869.202	2464.725	3122.321	3.3	3.2	3.3
E207-E223	-2648.098	-345.695	-391.313	4.8	4.7	4.8
E207-E233	2159.741	276.497	311.450	3.3	3.2	3.3
E207-E253	6951.011	2107.766	3064.525	3.3	3.2	3.3
E208-O001	24396.766	3528.323	4046.384	7.6	8.0	8.0
E208-E233	-1326.304	-223.791	-273.197	3.0	3.6	3.5
E217-O050	-1145.846	332.432	648.575	5.4	5.6	5.9
E217-E224	10178.343	761.272	444.439	11.4	12.3	12.7
E217-E229	3193.712	-12.936	-292.155	8.0	8.2	8.4
E219-O001	-97.562	765.777	1313.086	2.6	2.5	2.5
E219-E225	677.420	39.439	17.604	2.4	2.6	2.6
E219-E226	3632.183	552.438	628.667	5.1	5.3	5.3
E219-E230	2214.608	407.098	500.458	4.5	4.7	4.8
E223-O050	16517.300	2810.420	3513.634	5.6	5.5	5.5
E223-E253	9599.109	2453.461	3455.838	5.6	5.5	5.5
E224-E229	-6984.631	-774.208	-736.593	9.9	10.9	11.1
E225-O001	-774.982	726.338	1295.482	2.8	2.8	2.9

E225-E226	2954.763	512.999	611.064	5.0	5.1	5.2
E225-E230	1537.188	367.659	482.854	4.3	4.6	4.7
E226-O004	1504.854	359.061	481.425	4.9	5.2	5.3
E226-E227	5720.178	955.215	1136.128	6.6	6.9	6.9
E226-E230	-1417.575	-145.340	-128.210	3.6	3.6	3.6
E227-O004	-4215.324	-596.155	-654.703	5.6	5.9	5.9
E227-E228	-340.982	-54.124	-65.974	1.7	2.3	2.2
E227-E230	-7137.753	-1100.556	-1264.338	7.0	7.2	7.3
E228-O008	8505.061	1333.695	1516.173	5.6	5.9	5.9
E228-O004	-3874.342	-542.031	-588.729	5.6	5.9	5.9
E229-O050	-4339.558	345.367	940.729	8.6	8.9	9.1
E230-O004	2922.429	504.401	609.635	5.5	5.7	5.8
E233-O001	25723.070	3752.114	4319.580	6.9	7.2	7.3
E233-E253	4791.270	1831.269	2753.075	0.0	0.0	0.0
E235-O008	-4588.254	-709.594	-791.898	5.5	5.7	5.6
E235-O010	5148.786	1848.011	2681.217	5.5	5.7	5.6
E235-E236	5164.571	687.243	698.537	6.8	6.9	6.8
E235-O794	432.921	29.827	14.834	1.9	2.6	2.4
E236-O010	-15.785	1160.768	1982.681	5.3	5.2	5.0
E236-O794	-4731.650	-657.416	-683.702	6.8	7.0	6.9
K603-O017	2789.019	128.749	-64.719	3.9	3.9	3.8
K603-O100	-33.672	71.599	121.379	1.5	2.4	2.4
K603-O102	2236.121	107.285	-45.851	3.8	3.8	3.8
K603-K613	3170.946	-32.581	-368.989	4.0	4.0	4.0
K613-O017	-381.928	161.330	304.270	1.7	1.8	1.8
K613-O018	973.425	196.980	226.491	2.3	2.5	2.7
K613-O020	6739.295	308.217	-166.905	1.7	1.8	1.8
K613-O100	-3204.618	104.180	490.368	4.1	4.2	4.2
K613-O102	-934.826	139.866	323.137	1.8	1.9	1.9
K613-K616	848.563	72.464	32.514	2.2	2.4	2.6
K616-O017	-1230.491	88.866	271.756	2.3	2.5	2.6
K616-O018	124.862	124.516	193.977	1.4	1.7	1.9
K616-O020	5890.732	235.753	-199.419	2.3	2.5	2.6
K618-O018	-7756.261	248.627	1217.128	3.4	3.4	3.5
K618-O020	-1990.391	359.863	823.732	2.5	2.3	2.3
K618-O113	2063.192	433.455	524.804	4.1	4.1	4.1
K618-O116	5273.057	404.172	135.407	5.1	4.9	5.0
K618-O021	-90.313	147.691	258.233	1.6	2.1	2.1
K618-O022	3388.573	401.097	328.796	4.3	4.3	4.3
K628-O022	279.710	107.012	152.582	0.8	0.8	0.8
K628-O116	2164.194	110.087	-40.807	3.0	2.8	2.8
K628-O120	5597.840	158.755	-320.063	7.9	8.4	8.4
K628-K646	5697.339	144.491	-356.905	7.9	8.4	8.4
K646-W108	1337.557	6.871	-126.975	2.8	2.7	2.7
K646-O116	-3533.145	-34.404	316.098	7.7	8.2	8.2
K646-O120	-99.498	14.264	36.842	0.8	1.4	1.7
K646-W603	2244.535	-5.529	-245.858	3.3	3.2	3.3
O010-O794	-4715.865	-1818.184	-2666.383	5.6	5.8	5.8

O017-O018	1355.353	35.650	-77.780	2.4	2.6	2.7
O017-O020	7121.223	146.887	-471.175	0.0	0.0	0.0
O017-O102	-552.898	-21.464	18.867	1.2	1.2	1.2
O018-O021	7665.949	-100.935	-958.894	3.4	3.5	3.6
O018-O020	5765.870	111.237	-393.395	2.4	2.6	2.7
O018-O113	9819.454	184.829	-692.324	4.9	5.0	5.0
O020-O021	1900.079	-212.172	-565.499	2.5	2.5	2.5
O020-O113	4053.584	73.592	-298.928	4.4	4.3	4.3
O021-O113	2153.505	285.764	266.570	4.2	4.3	4.2
O022-O113	-1325.381	32.358	196.008	2.3	2.2	2.2
O022-O116	1884.484	3.075	-193.389	2.9	2.7	2.7
O100-O102	2269.793	35.686	-167.230	3.9	4.0	4.0
O113-O116	3209.865	-29.283	-389.397	3.6	3.4	3.4
O116-O120	3433.646	48.668	-279.256	7.7	8.2	8.3
O120-W108	1437.056	-7.393	-163.817	2.9	2.9	3.0
O120-W603	2344.034	-19.793	-282.700	3.4	3.4	3.5
W108-W603	906.978	-12.400	-118.883	2.4	2.4	2.4

4. Baseline Corrections (Corrections and Normalized Corrections)

Baseline	vN [mm]	vE [mm]	vH [mm]	vN/sN	vE/sE	vH/sH
0601-E223	-1.2	-0.2	-1.5	-0.3	-0.0	-0.2
0601-O050	-8.9	4.8	-13.2	-1.5	0.6	-1.3
0601-E202	0.2	-0.1	0.5	0.1	-0.0	0.1
0601-0613	-0.3	0.4	-1.8	-0.1	0.1	-0.2
0613-O050	-6.6	15.7	-13.4	-1.3	2.5	-1.8
0613-E202	0.2	-0.9	2.6	0.0	-0.1	0.3
0613-E223	-0.0	0.1	-0.4	-0.0	0.0	-0.1
0625-O050	-1.2	23.7	-18.5	-0.4	7.0	-5.0
0625-E207	-0.0	-0.0	0.0	-0.0	-0.0	0.0
0625-E223	-0.4	0.2	3.9	-0.1	0.0	0.7
0625-E253	8.1	20.3	-17.0	2.8	6.0	-4.6
0634-O001	-3.5	33.9	3.4	-0.6	4.7	0.4
0634-E233	0.5	-0.6	0.9	0.3	-0.3	0.3
0634-O050	-13.2	23.4	-0.8	-8.3	10.7	-0.3
0634-E207	-3.5	2.2	-1.7	-1.2	0.6	-0.4
0634-E208	0.2	-0.0	0.0	0.1	-0.0	0.0
0634-0644	0.8	0.2	-0.5	0.2	0.0	-0.1
0644-O001	-7.7	41.4	-7.8	-1.2	4.4	-0.6
0644-E233	-0.0	-0.4	1.8	-0.0	-0.1	0.2
0644-E208	0.5	-0.3	-1.1	0.1	-0.0	-0.1
0692-E224	-2.0	1.0	10.0	-0.4	0.1	0.8
0692-E229	-0.2	-0.1	-0.7	-0.1	-0.0	-0.1
0692-1029	0.2	0.7	-1.0	0.1	0.1	-0.1
0692-O050	1.4	-1.6	-2.0	0.2	-0.2	-0.2
0692-E217	1.4	-1.9	-2.9	0.2	-0.2	-0.2
0707-O001	0.6	-0.7	-0.7	0.2	-0.2	-0.1

0707-1030	0.0	-0.0	-0.0	0.0	-0.0	-0.0
0707-E219	-0.2	-0.1	-0.4	-0.1	-0.0	-0.1
0707-E225	0.0	-0.1	0.1	0.0	-0.0	0.0
0707-E226	-4.9	-1.3	1.9	-1.0	-0.2	0.2
0707-E230	-2.8	4.5	8.1	-0.7	0.8	1.1
0744-O004	-3.1	-1.2	-3.1	-0.8	-0.2	-0.4
0744-E226	-1.7	-0.8	-1.6	-0.4	-0.1	-0.2
0744-E227	3.3	1.6	0.3	1.2	0.4	0.1
0744-E228	-0.8	-1.3	1.4	-0.3	-0.3	0.3
0744-E230	-3.0	-1.4	-2.3	-0.6	-0.2	-0.3
0744-0763	3.6	7.0	3.7	0.7	0.9	0.4
0763-E227	-4.6	-8.7	-2.6	-1.0	-1.2	-0.3
0763-O004	-2.9	-8.3	-3.8	-0.6	-1.1	-0.4
0763-O008	4.8	5.7	6.5	1.0	0.8	0.7
0763-E228	-3.8	2.8	-5.8	-0.8	0.4	-0.6
0763-0775	5.6	5.9	6.4	1.1	0.8	0.7
0775-O008	0.0	-0.2	0.1	0.0	-0.1	0.0
0775-E228	-9.1	-3.6	-13.4	-2.1	-0.6	-1.7
0775-E235	5.9	10.7	2.6	1.4	1.9	0.4
0775-0786	6.0	7.7	1.8	1.4	1.3	0.2
0786-O008	-3.9	-8.9	-5.5	-0.9	-1.6	-0.8
0786-E235	2.2	2.6	3.3	0.6	0.5	0.5
0786-E236	5.5	16.1	5.1	1.1	2.3	0.6
0786-O794	1.2	4.2	0.9	0.3	0.8	0.1
1029-E217	2.2	6.4	11.8	0.3	0.7	0.9
1029-E224	-0.1	0.5	-3.1	-0.0	0.1	-0.3
1029-E229	-0.0	-0.3	-0.7	-0.0	-0.0	-0.1
1030-O001	1.0	0.1	-0.9	0.3	0.0	-0.2
1030-E219	-0.2	0.0	-0.1	-0.1	0.0	-0.0
1030-E225	-0.0	-0.3	-0.1	-0.0	-0.1	-0.0
BL03-E202	0.4	3.6	11.3	0.1	0.5	1.2
BL03-E233	-0.1	-0.2	-0.0	-0.0	-0.1	-0.0
BL03-BL04	0.0	0.0	-0.0	0.0	0.0	-0.0
BL04-E202	-0.3	3.3	13.7	-0.0	0.4	1.4
BL04-E233	0.1	0.0	-0.9	0.0	0.0	-0.2
BW01-BW02	0.1	0.0	-0.1	0.0	0.0	-0.1
BW01-E202	3.0	2.8	-16.5	0.5	0.4	-1.8
BW01-E233	-0.1	-0.1	0.8	-0.1	-0.0	0.3
BW02-E202	2.6	2.9	-14.3	0.4	0.4	-1.6
BW02-E233	0.4	0.1	-0.3	0.2	0.1	-0.1
E202-O050	-5.3	21.8	-14.8	-0.9	3.0	-1.7
E202-E223	-0.1	0.9	-5.0	-0.0	0.1	-0.6
E202-E233	0.9	-0.9	27.1	0.1	-0.1	3.1
E207-O050	-10.5	14.7	-3.5	-3.8	4.4	-0.9
E207-E223	0.1	-0.2	0.1	0.0	-0.0	0.0
E207-E233	-3.6	-1.4	1.7	-1.3	-0.4	0.5
E207-E253	6.9	16.6	-30.6	2.5	5.0	-8.3
E208-O001	-2.8	36.3	6.4	-0.5	4.8	0.6

E208-E233	0.6	-0.2	-0.3	0.3	-0.1	-0.1
E217-O050	-0.2	0.1	0.2	-0.1	0.0	0.0
E217-E224	3.9	-8.3	-17.9	0.5	-0.7	-1.1
E217-E229	-0.1	0.8	1.8	-0.0	0.1	0.2
E219-O001	0.2	-0.2	0.0	0.1	-0.1	0.0
E219-E225	-0.0	0.4	1.0	-0.0	0.2	0.3
E219-E226	-0.9	-5.2	-8.6	-0.2	-1.0	-1.4
E219-E230	-0.2	-0.2	-4.6	-0.1	-0.1	-0.8
E223-O050	-0.3	13.8	-10.4	-0.1	2.5	-1.7
E223-E253	-1.4	3.1	-23.3	-0.3	0.6	-3.8
E224-E229	0.8	-1.2	-3.2	0.1	-0.1	-0.2
E225-O001	-0.6	0.1	0.2	-0.3	0.0	0.1
E225-E226	-0.9	-4.3	-3.7	-0.2	-0.9	-0.6
E225-E230	1.1	2.7	4.4	0.3	0.6	0.8
E226-O004	-2.0	0.2	-1.2	-0.5	0.0	-0.2
E226-E227	4.2	2.4	1.3	0.9	0.4	0.1
E226-E230	0.5	-1.3	-0.8	0.2	-0.4	-0.2
E227-O004	-5.8	-2.9	-2.1	-1.4	-0.5	-0.3
E227-E228	0.3	0.1	-0.0	0.2	0.1	-0.0
E227-E230	-5.6	-3.1	-2.4	-1.1	-0.4	-0.3
E228-O008	9.0	3.1	13.2	2.2	0.5	1.8
E228-O004	0.2	0.2	-2.0	0.1	0.0	-0.3
E229-O050	0.4	-0.3	-0.7	0.1	-0.0	-0.1
E230-O004	0.9	0.2	1.1	0.2	0.0	0.2
E233-O001	-1.7	31.7	7.5	-0.3	4.6	0.9
E233-E253	2.3	7.8	-13.7	4921.2	16353.5	-28845.7
E235-O008	-3.0	-11.5	-6.0	-0.7	-2.1	-0.9
E235-O010	2.6	10.9	8.2	0.6	2.0	1.2
E235-E236	3.7	11.2	3.0	0.7	1.7	0.4
E235-O794	0.2	0.2	0.2	0.1	0.1	0.1
E236-O010	1.6	4.0	0.4	0.4	0.8	0.1
E236-O794	-4.6	-10.2	-4.7	-0.9	-1.5	-0.6
K603-O017	-1.1	0.1	-10.4	-0.4	0.0	-2.2
K603-O100	-0.3	-0.0	-1.0	-0.2	-0.0	-0.3
K603-O102	0.3	-1.9	7.3	0.1	-0.5	1.6
K603-K613	-0.6	0.5	-4.2	-0.2	0.1	-0.8
K613-O017	-0.5	-0.7	-6.2	-0.4	-0.4	-2.7
K613-O018	-0.7	0.6	-0.7	-0.4	0.3	-0.2
K613-O020	-9.6	18.2	2.5	-7.6	10.9	1.1
K613-O100	0.5	-0.3	2.7	0.2	-0.1	0.5
K613-O102	-0.4	-2.0	4.9	-0.3	-1.1	2.2
K613-K616	-0.7	0.5	-1.1	-0.4	0.2	-0.4
K616-O017	1.2	-4.0	-3.9	0.6	-1.7	-1.3
K616-O018	-0.2	0.1	0.0	-0.1	0.1	0.0
K616-O020	-9.7	18.0	6.1	-5.0	7.8	2.0
K618-O018	7.9	-6.7	-28.4	2.9	-2.0	-6.9
K618-O020	1.2	1.9	-3.0	0.6	0.8	-1.2
K618-O113	1.2	-2.9	-1.9	0.5	-0.7	-0.4

K618-O116	-1.1	6.6	7.1	-0.3	1.3	1.2
K618-O021	0.3	-0.8	2.4	0.2	-0.5	0.9
K618-O022	-0.3	7.8	11.0	-0.1	1.8	2.1
K628-O022	-0.2	-0.0	0.1	-0.3	-0.0	0.2
K628-O116	1.0	-1.4	-10.6	0.5	-0.5	-3.2
K628-O120	-4.2	-14.1	-17.8	-0.7	-1.8	-1.7
K628-K646	5.3	1.4	-15.2	1.0	0.2	-1.4
K646-W108	0.7	-0.9	-0.3	0.3	-0.3	-0.1
K646-O116	-1.9	-5.3	-6.0	-0.3	-0.7	-0.6
K646-O120	0.2	0.1	0.2	0.2	0.1	0.1
K646-W603	-2.0	-0.1	0.4	-0.7	-0.0	0.1
O010-O794	-6.0	-11.7	-3.8	-1.5	-2.1	-0.5
O017-O018	-1.4	4.0	3.9	-0.7	1.7	1.2
O017-O020	-5.9	10.3	17.0	-12498.4	21768.0	35828.4
O017-O102	0.2	0.5	-1.0	0.2	0.4	-0.8
O018-O021	-5.7	7.4	21.2	-2.0	2.2	5.0
O018-O020	-8.6	17.9	2.8	-4.4	7.6	0.9
O018-O113	-5.1	5.5	25.0	-1.4	1.1	4.1
O020-O021	2.7	2.3	-4.1	1.3	0.9	-1.5
O020-O113	-0.2	-2.4	-6.1	-0.1	-0.5	-1.2
O021-O113	0.8	-1.8	-2.6	0.3	-0.4	-0.5
O022-O113	-0.9	0.5	1.1	-0.4	0.2	0.4
O022-O116	-2.0	-0.3	1.5	-0.9	-0.1	0.5
O100-O102	-1.9	1.2	-4.8	-0.6	0.3	-1.0
O113-O116	-2.3	0.9	7.3	-0.8	0.2	1.8
O116-O120	-7.2	-1.5	5.5	-1.3	-0.2	0.5
O120-W108	3.2	4.0	2.3	1.2	1.4	0.7
O120-W603	-2.1	-0.2	0.2	-0.7	-0.1	0.1
W108-W603	0.8	0.0	-0.2	0.3	0.0	-0.1

Baselines which were rejected by the statistical test are marked.

5. Adjusted Points in NAD83 (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
0601	238810.551	-5507423.169	3197293.168	8.0	8.3	8.3
0613	242631.825	-5506813.526	3198051.617	6.3	6.5	6.5
0625	246252.091	-5506311.602	3198635.383	3.4	3.3	3.4
0634	248782.239	-5505951.225	3199056.843	2.2	2.5	2.4
0644	251821.226	-5505390.450	3199777.946	6.4	6.9	6.8
0692	266515.493	-5503996.021	3200976.711	9.4	9.8	10.0
0707	271037.470	-5503462.155	3201511.380	7.6	7.8	7.9
0744	281710.702	-5501818.503	3203403.088	5.6	5.8	5.9
0763	287281.994	-5500923.507	3204438.858	7.2	7.5	7.5
0775	291011.301	-5500354.431	3205073.984	2.2	2.6	2.6
0786	294168.068	-5499856.367	3205637.127	5.6	5.8	5.9
1029	268597.223	-5503751.422	3201220.906	10.4	11.1	11.4

I030	271206.066	-5503405.259	3201593.111	7.6	7.9	8.0
BL03	247877.980	-5505296.787	3200239.625	3.7	4.0	4.0
BL04	247898.991	-5505309.968	3200215.526	3.7	4.0	4.0
BW01	247424.704	-5505934.636	3199188.259	2.2	2.4	2.5
BW02	247494.773	-5505934.178	3199182.933	2.2	2.4	2.6
E202	239958.006	-5507183.736	3197619.659	7.3	7.4	7.5
E207	246012.640	-5506298.814	3198674.915	3.3	3.2	3.3
E208	249498.685	-5505798.526	3199259.562	3.0	3.6	3.5
E217	261027.688	-5504166.521	3201148.661	5.4	5.6	5.9
E219	273993.013	-5503035.980	3201992.860	6.7	7.0	7.1
E223	243364.542	-5506644.509	3198283.602	5.6	5.5	5.5
E224	271206.031	-5503405.249	3201593.100	11.9	12.8	13.2
E225	274670.433	-5502996.541	3202010.464	6.6	6.9	7.0
E226	277625.196	-5502483.542	3202621.527	4.9	5.2	5.3
E227	283345.374	-5501528.326	3203757.655	5.6	5.9	5.9
E228	283004.392	-5501582.450	3203691.681	5.6	5.9	5.9
E229	264221.400	-5504179.456	3200856.507	8.6	8.9	9.1
E230	276207.621	-5502628.882	3202493.317	5.5	5.7	5.8
E233	248172.381	-5506022.317	3198986.365	0.0	0.0	0.0
E235	296097.707	-5499539.161	3205999.752	5.5	5.7	5.6
E236	301262.278	-5498851.918	3206698.288	5.3	5.2	5.0
E253	252963.651	-5504191.048	3201739.440	0.0	0.0	0.0
K603	324063.416	-5496565.708	3208379.947	3.9	3.9	3.8
K613	327234.363	-5496598.289	3208010.958	1.7	1.8	1.8
K616	328082.926	-5496525.825	3208043.472	2.3	2.5	2.6
K618	335964.049	-5496649.935	3207020.321	2.5	2.3	2.3
K628	339072.913	-5496355.850	3207196.535	4.7	4.6	4.6
K646	344770.251	-5496211.359	3206839.630	9.1	9.5	9.5
O001	273895.451	-5502270.203	3203305.945	6.9	7.2	7.3
O004	279130.050	-5502124.481	3203102.952	0.0	0.0	0.0
O008	291509.453	-5500248.755	3205207.854	0.0	0.0	0.0
O010	301246.493	-5497691.150	3208680.969	0.0	0.0	0.0
O015	323749.125	-5496068.448	3209255.722	0.0	0.0	0.0
O017	326852.435	-5496436.959	3208315.228	0.0	0.0	0.0
O018	328207.788	-5496401.309	3208237.448	2.4	2.6	2.7
O020	333973.658	-5496290.072	3207844.053	0.0	0.0	0.0
O021	335873.737	-5496502.244	3207278.554	2.5	2.5	2.5
O022	339352.623	-5496248.838	3207349.117	4.7	4.5	4.5
O050	259881.842	-5503834.089	3201797.236	0.0	0.0	0.0
O100	324029.744	-5496494.109	3208501.325	4.0	4.1	4.0
O102	326299.537	-5496458.423	3208334.095	1.2	1.2	1.2
O113	338027.242	-5496216.480	3207545.125	4.4	4.3	4.3
O116	341237.107	-5496245.763	3207155.728	5.4	5.2	5.2
O120	344670.753	-5496197.095	3206876.472	9.1	9.5	9.5
O794	296530.628	-5499509.334	3206014.586	5.6	5.8	5.8
W108	346107.809	-5496204.488	3206712.655	9.5	9.8	9.9
W603	347014.787	-5496216.888	3206593.772	9.7	10.0	10.0

6. Adjusted Points in NAD83 (Geogr. Coordinates and Std.Dev.)

Point	Lat [Deg]	Lon [Deg]	ell.H [m]						
0601	N30° 16' 51.34361"	W87° 31' 01.63206"	-24.423						
0613	N30° 17' 19.85406"	W87° 28' 37.78601"	-23.780						
0625	N30° 17' 41.80682"	W87° 26' 21.61184"	-23.664						
0634	N30° 17' 57.66068"	W87° 24' 46.41565"	-23.783						
0644	N30° 18' 24.79606"	W87° 22' 51.84453"	-24.429						
0692	N30° 19' 09.90591"	W87° 13' 40.00337"	-25.252						
0707	N30° 19' 30.01965"	W87° 10' 49.96041"	-25.207						
0744	N30° 20' 41.18312"	W87° 04' 07.79767"	-24.530						
0763	N30° 21' 20.15389"	W87° 00' 37.73775"	-24.186						
0775	N30° 21' 44.06497"	W86° 58' 17.16165"	-24.628						
0786	N30° 22' 05.25555"	W86° 56' 18.11992"	-24.398						
1029	N30° 19' 19.09938"	W87° 12' 21.72718"	-25.613						
1030	N30° 19' 33.10636"	W87° 10' 43.55203"	-25.831						
BL03	N30° 18' 42.20270"	W87° 25' 19.12074"	-26.548						
BL04	N30° 18' 41.29579"	W87° 25' 18.35729"	-26.528						
BW01	N30° 18' 02.61806"	W87° 25' 37.14090"	-24.550						
BW02	N30° 18' 02.42470"	W87° 25' 34.52047"	-24.916						
E202	N30° 17' 03.60063"	W87° 30' 18.34848"	-23.321						
E207	N30° 17' 43.29971"	W87° 26' 30.54237"	-23.986						
E208	N30° 18' 05.31319"	W87° 24' 19.37218"	-25.247						
E217	N30° 19' 16.24064"	W87° 17' 05.49245"	-18.195						
E219	N30° 19' 48.09833"	W87° 08' 58.66695"	-23.319						
E223	N30° 17' 28.59575"	W87° 28' 10.11525"	-24.682						
E224	N30° 19' 33.10626"	W87° 10' 43.55332"	-25.847						
E225	N30° 19' 48.68459"	W87° 08' 33.26523"	-19.316						
E226	N30° 20' 11.78574"	W87° 06' 41.82450"	-25.104						
E227	N30° 20' 54.49887"	W87° 03' 06.11569"	-23.132						
E228	N30° 20' 52.05073"	W87° 03' 18.97021"	-24.946						
E229	N30° 19' 05.34371"	W87° 15' 06.10540"	-23.136						
E230	N30° 20' 06.98012"	W87° 07' 35.10193"	-26.071						
E233	N30° 17' 54.97147"	W87° 25' 09.33560"	-21.760						
E235	N30° 22' 18.91827"	W86° 55' 05.32050"	-25.132						
E236	N30° 22' 45.15776"	W86° 51' 50.78070"	-22.295						
E253	N30° 19' 38.56573"	W87° 22' 07.07136"	-23.416						
K603	N30° 23' 48.49311"	W86° 37' 33.21703"	-23.785						
K613	N30° 23' 34.54188"	W86° 35' 34.71246"	-20.662						
K616	N30° 23' 35.81146"	W86° 35' 02.82037"	-23.052						
K618	N30° 22' 57.30933"	W86° 30' 08.42910"	-23.836						
K628	N30° 23' 03.93733"	W86° 28' 11.52731"	-23.553						
K646	N30° 22' 50.49751"	W86° 24' 38.20555"	-23.308						
O001	N30° 20' 37.52510"	W87° 09' 00.88947"	-24.390						
O004	N30° 20' 29.91348"	W87° 05' 44.87684"	-25.795						
O008	N30° 21' 49.11580"	W86° 57' 58.32361"	-25.285						
O010	N30° 23' 59.75116"	W86° 51' 48.99233"	-19.833						
O015	N30° 24' 21.48380"	W86° 37' 43.87496"	-24.686						

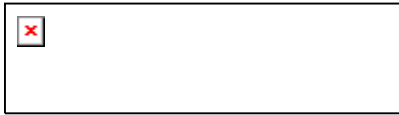
O017	N30° 23' 46.08338"	W86° 35' 48.63533"	-25.194				
O018	N30° 23' 43.16480"	W86° 34' 57.87336"	-25.703				
O020	N30° 23' 28.27357"	W86° 31' 22.02574"	-21.459				
O021	N30° 23' 07.05521"	W86° 30' 11.46812"	-25.145				
O022	N30° 23' 09.68305"	W86° 28' 00.82329"	-23.650				
O050	N30° 19' 40.75335"	W87° 17' 47.74939"	-24.110				
O100	N30° 23' 53.09991"	W86° 37' 34.31839"	-25.726				
O102	N30° 23' 46.79863"	W86° 36' 09.35859"	-25.452				
O113	N30° 23' 17.04336"	W86° 28' 50.30000"	-22.682				
O116	N30° 23' 02.40317"	W86° 26' 50.36477"	-23.658				
O120	N30° 22' 51.86572"	W86° 24' 41.89151"	-22.330				
O794	N30° 22' 19.44047"	W86° 54' 49.07029"	-23.233				
W108	N30° 22' 45.67504"	W86° 23' 48.19031"	-21.059				
W603	N30° 22' 41.20393"	W86° 23' 14.31676"	-21.264				

8. Adjusted Points Error Ellipses

Point	A [mm]	B [mm]	Angle [Deg]
0601	8.0	6.0	-82.8
0613	6.3	5.2	-81.5
0625	3.4	2.8	-76.4
0634	2.2	1.6	-82.0
0644	6.4	4.1	-83.5
0692	9.4	6.7	-84.9
0707	7.6	5.5	-79.2
0744	5.7	3.9	-76.8
0763	7.2	4.7	-82.7
0775	2.2	1.6	-80.3
0786	5.7	4.2	-80.6
1029	10.4	7.2	-85.2
1030	7.6	5.5	-79.2
BL03	3.7	3.1	-80.8
BL04	3.7	3.1	-80.8
BW01	2.2	1.9	75.3
BW02	2.3	2.1	71.5
E202	7.3	5.7	-83.3
E207	3.4	2.7	-76.5
E208	3.1	2.1	-82.6
E217	5.5	4.5	68.6
E219	6.7	4.9	-77.6
E223	5.6	4.7	-83.7
E224	11.9	8.0	-85.6
E225	6.6	4.9	-77.6
E226	5.0	3.5	-73.2
E227	5.7	4.0	-77.6
E228	5.7	4.0	-77.8
E229	8.6	6.3	-84.6

E230	5.6	4.1	-74.8
E233	0.0	0.0	0.0
E235	5.6	4.0	-81.4
E236	5.3	3.6	-83.2
E253	0.0	0.0	0.0
K603	3.9	2.8	-84.8
K613	1.7	1.2	-81.7
K616	2.4	1.9	-68.5
K618	2.5	2.0	-84.9
K628	4.7	3.4	-83.5
K646	9.2	6.4	-80.2
O001	7.0	5.1	-78.2
O004	0.0	0.0	0.0
O008	0.0	0.0	0.0
O010	0.0	0.0	0.0
O015	0.0	0.0	0.0
O017	0.0	0.0	0.0
O018	2.4	1.9	-68.0
O020	0.0	0.0	0.0
O021	2.5	2.0	-83.5
O022	4.7	3.3	-83.5
O050	0.0	0.0	0.0
O100	4.0	2.9	-84.7
O102	1.2	1.1	-85.2
O113	4.4	3.1	-82.8
O116	5.3	3.8	-84.1
O120	9.2	6.4	-80.3
O794	5.6	4.0	-81.5
W108	9.6	6.8	-80.2
W603	9.8	6.9	-80.5

Appendix 2 TIER 2 Adjustment Part 2



Network Adjustment

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Statistics	
Network Adjustment in NAD83.	
Number of baselines	168
Number of terrestrial measurements	0
Geoidmodel	Southeastern US NOAA96
Number of control points in NAD83	4
Number of adjusted points	55
Confidence level	2 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	0.593
Number of iterations	1

1. Baselines Input in NAD83 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
B001-G004	4118.658	8622.071	14455.286	42.4	107.4	75.7
B001-G004	4118.647	8622.101	14455.301	48.9	107.2	61.7
B001-G122	-3157.867	2613.091	5021.368	16.2	38.2	32.4
B001-G141	8165.080	1624.647	1671.355	27.1	84.5	44.3
B001-G141	8165.095	1624.634	1671.368	26.5	54.8	33.8
B001-G148	12695.228	1989.657	1648.011	34.7	75.7	48.3
B005-G101	1265.924	-579.797	-1181.539	11.4	19.4	11.6
B005-G109	5017.253	-3479.630	-6740.490	26.4	50.7	32.5
B005-B007	-1447.739	577.738	1204.813	11.1	18.9	12.8
B005-B007	-1447.740	577.735	1204.812	10.2	15.0	11.8
B005-G100	625.563	-264.109	-544.058	16.6	22.4	15.3
B005-G104	3130.570	-1610.042	-3229.208	18.4	30.1	21.7
B005-G110	-173.378	-2892.274	-4984.749	16.9	30.2	25.6
B007-G100	2073.301	-841.850	-1748.870	14.0	22.4	16.7
B007-G101	2713.664	-1157.535	-2386.352	12.8	21.3	16.1
B007-G109	6464.993	-4057.366	-7945.302	26.9	62.0	39.3
B007-G104	4578.310	-2187.777	-4434.021	24.8	36.8	30.9
B007-G110	1274.362	-3470.009	-6189.562	20.7	35.9	35.0

G001-G003	-7110.215	-1535.384	-1606.366	25.1	53.3	39.9
G001-G003	-7110.217	-1535.390	-1606.369	27.0	40.5	44.4
G001-G002	3090.116	-336.314	-1054.465	9.8	22.5	15.9
G001-G007	6988.663	-6084.543	-11708.247	50.0	114.2	74.2
G001-G011	-6444.312	-6742.337	-10816.213	40.4	91.9	58.4
G002-G003	-10200.334	-1199.077	-551.905	33.6	51.1	47.5
G003-G007	14098.876	-4549.156	-10101.884	52.7	125.0	77.7
G003-G011	665.898	-5206.945	-9209.852	30.4	73.0	43.6
G003-G011	665.913	-5206.940	-9209.846	29.6	64.1	49.8
G003-G013	-14193.317	488.885	2941.594	34.8	78.1	58.2
G003-G141	-16313.844	-3356.809	-3466.871	40.0	98.7	54.3
G003-G141	-16313.828	-3356.766	-3466.877	43.1	94.2	74.4
G003-G148	-11783.717	-2991.795	-3490.228	33.3	78.8	44.8
G004-G008	89.465	-260.404	-467.629	16.9	29.4	16.4
G004-G013	6166.960	-3151.794	-6375.460	39.2	69.4	57.4
G004-G109	-3503.849	1846.050	3706.528	24.0	42.8	35.5
G004-G109	-3503.846	1846.065	3706.515	20.9	51.8	27.7
G004-G141	4046.430	-6997.442	-12783.944	35.6	93.0	48.3
G004-G141	4046.422	-6997.426	-12783.930	36.9	93.4	65.9
G004-G141	4046.449	-6997.465	-12783.934	44.1	97.1	56.4
G004-G148	8576.582	-6632.442	-12807.292	49.2	108.1	62.1
G004-G107	-4089.248	2534.685	4984.855	27.2	57.4	32.8
G004-G108	-3778.723	2122.343	4224.766	23.3	56.6	32.2
G004-G110	-8694.477	2433.406	5462.273	36.8	74.8	62.4
G004-G116	-9484.089	-3336.143	-4467.914	31.9	64.8	52.8
G004-G122	-7276.525	-6008.978	-9433.918	32.5	82.4	58.1
G004-G122	-7276.525	-6008.986	-9433.945	39.1	79.2	65.0
G007-G011	-13432.977	-657.796	892.035	38.8	88.6	56.0
G008-G122	-7365.992	-5748.590	-8966.310	31.6	75.3	41.2
G011-G013	-14859.231	5695.825	12151.440	47.5	103.5	81.6
G011-G141	-16979.743	1850.175	5742.969	43.8	93.3	77.9
G013-G141	-2120.511	-3845.634	-6408.481	30.7	56.9	42.1
G013-G141	-2120.530	-3845.645	-6408.490	27.4	52.7	32.7
G100-G101	640.362	-315.686	-637.483	10.2	15.1	10.0
G101-G103	1249.317	-629.379	-1265.575	9.2	23.1	8.9
G101-G104	1864.650	-1030.241	-2047.673	8.2	25.5	10.6
G101-G102	616.891	-290.140	-589.019	8.9	32.2	13.9
G102-G103	632.425	-339.241	-676.554	9.9	25.3	13.3
G102-G104	1247.758	-740.097	-1458.653	10.0	30.6	10.7
G103-G104	615.334	-400.864	-782.096	8.7	22.8	9.5
G104-G109	1886.684	-1869.588	-3511.281	19.0	33.3	21.5
G104-G105	470.267	-365.879	-700.192	8.9	15.9	13.9
G104-G106	933.554	-787.080	-1496.493	21.8	37.0	31.6
G104-G107	1301.282	-1180.972	-2232.937	10.2	19.8	15.9
G104-G110	-3303.947	-1282.232	-1755.541	16.4	26.8	17.4
G105-G106	463.286	-421.203	-796.303	21.8	36.1	29.5
G105-G107	831.015	-815.093	-1532.744	11.1	22.1	16.3
G106-G107	367.727	-393.897	-736.445	13.2	26.1	20.8

G107-G109	585.401	-688.622	-1278.339	6.9	16.6	10.6
G107-G108	310.524	-412.348	-760.086	6.5	20.1	9.2
G108-G109	274.876	-276.276	-518.252	7.5	22.2	9.7
G109-G110	-5190.632	587.355	1755.740	18.5	31.9	22.0
G109-G116	-5980.240	-5182.199	-8174.439	35.1	68.1	56.1
G109-G122	-3772.674	-7855.043	-13140.470	48.0	93.2	77.1
G110-G116	-789.613	-5769.551	-9930.184	35.9	76.0	60.3
G110-G122	1417.953	-8442.394	-14896.217	52.2	105.7	88.7
G116-G119	689.629	-1111.762	-2018.196	16.1	32.8	16.4
G116-G122	2207.568	-2672.843	-4966.026	32.4	54.7	39.1
G116-G122	2207.554	-2672.844	-4966.017	29.2	42.7	42.4
G116-G122	2207.563	-2672.851	-4966.011	24.7	41.1	28.3
G116-G149	1082.701	-1010.285	-1912.601	28.6	41.6	19.1
G116-G123	2593.661	-3013.137	-5615.632	36.1	43.8	48.1
G116-G124	3021.870	-3503.239	-6533.023	43.7	56.6	50.8
G119-G149	393.067	101.474	105.592	8.3	17.0	8.9
G119-G122	1517.933	-1561.087	-2947.813	17.1	30.6	20.6
G120-G124	1868.470	-1816.039	-3434.132	23.8	74.1	32.3
G120-G121	453.270	-392.345	-746.515	17.1	49.8	22.7
G120-G122	1054.162	-985.643	-1867.116	17.9	53.6	25.2
G121-G122	600.894	-593.304	-1120.600	8.1	20.6	11.2
G121-G123	986.999	-933.602	-1770.221	26.5	58.7	32.1
G121-G124	1415.203	-1423.698	-2687.615	11.7	31.4	15.4
G122-G123	386.105	-340.299	-649.622	31.2	69.7	37.6
G122-G123	386.109	-340.292	-649.616	25.0	56.5	39.3
G122-G124	814.309	-830.396	-1567.015	10.7	27.0	14.3
G122-G124	814.313	-830.393	-1567.014	7.6	20.3	8.7
G122-G124	814.316	-830.393	-1567.008	7.7	15.8	14.0
G122-G126	1823.021	-1696.777	-3226.714	18.5	56.3	28.2
G122-G126	1823.023	-1696.754	-3226.725	25.5	58.3	29.4
G122-G133	4682.755	-1646.376	-3547.150	17.6	50.8	30.6
G122-G133	4682.758	-1646.368	-3547.162	25.0	60.0	32.4
G122-G134	5924.111	-1405.087	-3303.323	16.7	49.2	31.3
G122-G134	5924.121	-1405.078	-3303.329	19.4	49.9	27.1
G122-G134	5924.117	-1405.107	-3303.323	16.2	48.2	16.9
G122-G135	7183.633	-1236.869	-3189.336	27.1	51.1	26.7
G122-G136	7578.472	-1206.231	-3188.260	25.7	57.6	44.0
G122-G141	11322.947	-988.448	-3350.011	29.1	73.0	51.6
G122-G141	11322.964	-988.444	-3350.017	25.3	75.4	40.2
G122-G141	11322.977	-988.440	-3350.014	84.9	185.6	96.7
G122-G141	11322.972	-988.475	-3350.001	32.1	69.4	38.2
G122-G149	-1124.864	1662.563	3053.409	19.9	35.8	21.7
G122-G125	1425.476	-1534.821	-2889.659	10.5	27.1	13.8
G122-G130	2102.863	-2057.280	-3897.322	13.4	38.6	18.5
G122-G132	4389.723	-1871.661	-3897.265	35.1	74.8	75.5
G123-G124	428.207	-490.100	-917.391	17.9	36.2	24.2
G123-G124	428.204	-490.096	-917.392	38.1	94.0	45.9
G124-G126	1008.709	-866.372	-1659.710	26.9	39.7	25.2

G124-G125	611.164	-704.427	-1322.646	7.5	16.1	8.1
G125-G126	397.544	-161.930	-337.066	25.6	57.3	27.8
G126-G130	279.843	-360.505	-670.608	11.8	37.1	19.9
G127-G128	714.365	48.433	-14.036	25.3	27.3	28.1
G127-G129	1026.929	-102.671	-324.781	19.7	34.3	62.5
G127-G131	1158.287	-102.990	-342.406	10.9	17.5	21.0
G127-G132	2063.982	211.911	80.216	14.0	28.4	27.0
G128-G131	443.930	-151.424	-328.382	20.5	27.6	12.2
G129-G131	131.358	-0.315	-17.635	19.1	31.2	32.8
G129-G132	1037.052	314.584	404.994	18.5	32.3	59.6
G130-G141	9220.100	1068.832	547.306	22.6	75.8	42.2
G131-G132	905.695	314.903	422.623	12.6	25.4	21.2
G132-G134	1534.388	466.575	593.949	28.8	89.4	88.2
G132-G136	3188.750	665.424	709.016	35.1	95.8	101.3
G133-G134	1241.355	241.290	243.828	9.8	27.4	16.3
G133-G134	1241.362	241.301	243.829	19.5	46.4	21.2
G133-G136	2895.716	440.146	358.889	14.5	54.0	31.2
G133-G141	6640.221	657.953	197.142	26.3	68.2	30.3
G134-G135	1259.519	168.232	113.989	19.5	34.9	13.2
G134-G136	1654.362	198.860	115.060	11.5	41.1	26.0
G134-G141	5398.859	416.650	-46.681	22.5	37.6	27.5
G134-G141	5398.856	416.636	-46.679	18.5	37.2	12.9
G135-G141	4139.338	248.402	-160.668	22.1	34.7	19.2
G136-G137	475.388	49.426	19.357	11.6	23.8	20.9
G136-G138	724.244	114.764	93.626	26.1	45.2	37.7
G136-G139	3346.359	265.569	-22.085	29.4	51.5	52.0
G136-G143	5937.528	211.116	-490.759	26.7	39.5	44.7
G137-G138	248.855	65.340	74.266	18.9	31.2	24.2
G137-G143	5462.139	161.692	-510.119	19.8	36.9	34.6
G138-G139	2622.114	150.805	-115.712	56.0	87.3	79.9
G138-G143	5213.287	96.351	-584.381	32.6	61.2	52.3
G139-G143	2591.167	-54.452	-468.677	21.1	39.2	43.2
G140-G148	5709.914	398.423	-135.388	14.1	53.5	35.9
G140-G436	-1830.274	-158.211	-10.734	16.2	29.3	20.4
G140-G141	1179.784	33.410	-112.032	5.8	17.1	10.5
G141-G142	1315.190	18.179	-160.229	5.6	21.7	8.1
G141-G143	2193.034	-6.666	-329.007	10.0	21.0	11.1
G141-G148	4530.125	365.017	-23.358	18.4	29.1	15.3
G141-G148	4530.133	365.024	-23.358	18.2	25.8	17.9
G141-G148	4530.131	365.012	-23.353	13.9	29.6	14.2
G141-G148	4530.130	365.013	-23.357	12.6	35.9	23.6
G141-G436	-3010.058	-191.619	101.297	13.4	34.9	23.1
G142-G143	877.843	-24.850	-168.781	11.6	27.3	14.0
G142-G148	3214.942	346.831	136.877	10.0	30.1	10.4
G143-G144	926.054	115.307	65.270	11.9	41.7	12.9
G143-G145	1603.552	134.877	1.888	14.9	26.3	28.4
G143-G146	1818.519	198.805	80.573	36.9	69.0	58.4
G143-G147	2122.201	356.336	311.038	16.1	30.0	15.7

G143-G148	2337.097	371.677	305.654	11.3	23.8	11.5
G144-G147	1196.147	241.043	245.770	34.9	152.5	35.8
G145-G146	214.968	63.932	78.674	8.0	15.0	20.4
G145-G147	518.650	221.459	309.148	7.0	16.5	18.9
G146-G147	303.683	157.530	230.466	27.0	59.4	45.2
G148-G436	-7540.188	-556.634	124.654	32.6	83.6	59.8

Baselines which were rejected by the statistical test are marked.

2. NAD83 Control Points Input (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
G003	473695.440	-5523450.844	3143382.561	0.0	0.0	0.0
G109	449831.257	-5517964.060	3156406.107	0.0	0.0	0.0
G141	457381.562	-5526807.618	3139915.649	0.0	0.0	0.0
G116	443851.016	-5523146.290	3148231.694	0.0	0.0	0.0

3. Adjusted Baselines in NAD83 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
B001-G004	4118.648	8622.110	14455.302	7.5	17.4	11.5
B001-G122	-3157.875	2613.096	5021.376	6.5	15.3	10.5
B001-G141	8165.098	1624.629	1671.359	6.4	15.2	10.1
B001-G148	12695.229	1989.645	1648.004	6.9	16.2	10.5
B005-G101	1265.923	-579.798	-1181.539	4.0	6.8	4.4
B005-G109	5017.254	-3479.628	-6740.490	5.4	10.3	7.0
B005-B007	-1447.740	577.737	1204.813	3.6	5.7	4.2
B005-G100	625.561	-264.112	-544.057	5.1	7.6	5.3
B005-G104	3130.572	-1610.039	-3229.211	4.4	8.2	5.1
B005-G110	-173.377	-2892.274	-4984.749	5.6	9.8	7.5
B007-G100	2073.301	-841.849	-1748.869	5.1	7.8	5.6
B007-G101	2713.663	-1157.535	-2386.351	4.2	7.0	4.9
B007-G109	6464.994	-4057.364	-7945.303	5.5	10.5	7.3
B007-G104	4578.312	-2187.775	-4434.024	4.6	8.5	5.6
B007-G110	1274.363	-3470.011	-6189.562	5.8	10.1	7.8
G001-G003	-7110.215	-1535.389	-1606.366	8.6	15.6	13.3
G001-G002	3090.117	-336.314	-1054.465	5.6	12.4	9.0
G001-G007	6988.661	-6084.541	-11708.251	17.1	38.7	25.3
G001-G011	-6444.318	-6742.334	-10816.220	11.5	23.6	17.6
G002-G003	-10200.331	-1199.075	-551.901	9.7	17.8	14.9
G003-G007	14098.876	-4549.152	-10101.885	16.5	37.8	24.4
G003-G011	665.897	-5206.945	-9209.854	9.3	19.9	14.4
G003-G013	-14193.348	488.880	2941.576	9.0	16.7	12.0
G003-G141	-16313.878	-3356.774	-3466.912	0.0	0.0	0.0
G003-G148	-11783.747	-2991.759	-3490.266	3.0	6.7	3.6
G004-G008	89.466	-260.406	-467.628	8.9	16.1	8.9

G004-G013	6166.980	-3151.826	-6375.455	9.8	18.6	13.1
G004-G109	-3503.855	1846.078	3706.514	4.7	10.2	6.5
G004-G141	4046.450	-6997.480	-12783.944	4.7	10.2	6.5
G004-G148	8576.581	-6632.465	-12807.298	5.5	12.0	7.4
G004-G107	-4089.256	2534.696	4984.854	5.3	11.8	7.3
G004-G108	-3778.731	2122.350	4224.767	5.4	13.0	7.4
G004-G110	-8694.486	2433.431	5462.256	7.0	13.8	9.6
G004-G116	-9484.096	-3336.152	-4467.899	4.7	10.2	6.5
G004-G122	-7276.524	-6009.014	-9433.926	5.4	11.7	7.5
G007-G011	-13432.978	-657.793	892.031	16.5	37.8	24.2
G008-G122	-7365.989	-5748.608	-8966.298	9.8	19.1	11.0
G011-G013	-14859.245	5695.825	12151.430	12.2	24.7	18.0
G011-G141	-16979.775	1850.171	5742.942	9.3	19.9	14.4
G013-G141	-2120.530	-3845.654	-6408.488	9.0	16.7	12.0
G100-G101	640.362	-315.686	-637.482	4.7	7.1	4.8
G101-G103	1249.316	-629.379	-1265.576	3.7	9.5	4.0
G101-G104	1864.649	-1030.241	-2047.673	3.2	7.8	3.8
G101-G102	616.891	-290.140	-589.020	3.7	11.2	4.9
G102-G103	632.425	-339.239	-676.556	4.0	10.8	4.9
G102-G104	1247.758	-740.100	-1458.653	3.8	11.0	4.6
G103-G104	615.333	-400.862	-782.097	3.6	9.4	4.0
G104-G109	1886.682	-1869.589	-3511.279	4.2	8.3	5.8
G104-G105	470.267	-365.878	-700.193	4.2	7.7	6.4
G104-G106	933.554	-787.077	-1496.495	6.5	11.7	9.5
G104-G107	1301.281	-1180.971	-2232.939	3.8	7.2	5.6
G104-G110	-3303.949	-1282.236	-1755.538	5.4	9.4	6.8
G105-G106	463.287	-421.199	-796.302	6.8	12.1	9.8
G105-G107	831.014	-815.092	-1532.746	4.5	8.6	6.7
G106-G107	367.727	-393.893	-736.444	6.1	11.3	9.1
G107-G109	585.401	-688.619	-1278.340	3.0	7.2	4.2
G107-G108	310.524	-412.346	-760.087	3.2	9.2	4.4
G108-G109	274.876	-276.272	-518.253	3.3	9.3	4.4
G109-G110	-5190.631	587.354	1755.741	5.6	10.2	7.4
G109-G116	-5980.241	-5182.230	-8174.413	0.0	0.0	0.0
G109-G122	-3772.668	-7855.092	-13140.440	3.5	7.0	4.4
G110-G116	-789.610	-5769.584	-9930.154	5.6	10.2	7.4
G110-G122	1417.963	-8442.445	-14896.182	6.5	12.2	8.6
G116-G119	689.635	-1111.768	-2018.202	6.1	11.5	6.2
G116-G122	2207.573	-2672.862	-4966.027	3.5	7.0	4.4
G116-G149	1082.703	-1010.294	-1912.609	6.6	12.1	6.4
G116-G123	2593.678	-3013.150	-5615.648	6.8	13.1	8.7
G116-G124	3021.884	-3503.255	-6533.040	4.1	8.5	5.3
G119-G149	393.068	101.474	105.593	4.6	9.0	4.8
G119-G122	1517.938	-1561.094	-2947.826	6.1	11.3	6.6
G120-G124	1868.473	-1816.040	-3434.130	6.8	20.1	9.2
G120-G121	453.268	-392.342	-746.517	6.8	20.1	9.2
G120-G122	1054.161	-985.646	-1867.118	6.7	19.9	9.1
G121-G122	600.893	-593.304	-1120.601	3.7	9.6	5.0

G121-G123	986.999	-933.592	-1770.221	6.7	14.5	8.6
G121-G124	1415.205	-1423.697	-2687.613	3.9	10.1	5.3
G122-G123	386.105	-340.289	-649.620	6.0	12.1	7.7
G122-G124	814.312	-830.393	-1567.012	2.3	5.3	3.1
G122-G126	1823.023	-1696.766	-3226.720	5.4	13.1	7.0
G122-G133	4682.757	-1646.385	-3547.157	4.7	11.3	6.4
G122-G134	5924.113	-1405.095	-3303.331	3.9	9.2	4.8
G122-G135	7183.633	-1236.866	-3189.343	8.0	14.2	6.8
G122-G136	7578.475	-1206.241	-3188.267	5.2	12.9	8.8
G122-G141	11322.973	-988.466	-3350.018	3.5	7.0	4.4
G122-G149	-1124.870	1662.567	3053.419	6.5	11.9	6.7
G122-G125	1425.476	-1534.822	-2889.658	3.8	8.8	4.6
G122-G130	2102.866	-2057.280	-3897.324	5.5	15.9	8.2
G122-G132	4389.725	-1871.664	-3897.274	11.3	29.3	29.5
G123-G124	428.206	-490.105	-917.392	6.0	12.1	7.7
G124-G126	1008.711	-866.373	-1659.708	5.7	13.2	7.2
G124-G125	611.164	-704.428	-1322.646	3.6	8.1	4.1
G125-G126	397.547	-161.945	-337.062	6.3	14.6	7.7
G126-G130	279.843	-360.513	-670.604	5.5	16.2	8.6
G127-G128	714.359	48.433	-14.029	9.7	12.1	9.9
G127-G129	1026.930	-102.673	-324.776	7.2	12.1	16.7
G127-G131	1158.287	-102.989	-342.409	4.9	7.9	8.8
G127-G132	2063.982	211.913	80.214	5.8	10.9	10.9
G128-G131	443.928	-151.422	-328.381	9.4	12.0	6.7
G129-G131	131.357	-0.316	-17.633	7.1	11.8	15.6
G129-G132	1037.052	314.585	404.991	7.3	12.7	17.0
G130-G141	9220.108	1068.814	547.307	6.1	16.9	9.0
G131-G132	905.695	314.902	422.624	5.5	10.6	10.0
G132-G134	1534.388	466.569	593.943	11.1	29.6	29.5
G132-G136	3188.750	665.423	709.008	11.4	30.2	29.9
G133-G134	1241.357	241.290	243.826	4.0	10.1	5.7
G133-G136	2895.718	440.144	358.891	5.1	14.6	9.1
G133-G141	6640.217	657.919	197.140	5.0	11.5	6.4
G134-G135	1259.520	168.229	113.988	7.9	14.1	6.1
G134-G136	1654.362	198.854	115.065	4.6	13.0	8.5
G134-G141	5398.860	416.629	-46.686	4.2	9.1	4.5
G135-G141	4139.340	248.400	-160.674	7.9	13.8	6.5
G136-G137	475.389	49.424	19.358	5.7	11.3	9.8
G136-G138	724.244	114.763	93.624	8.6	15.2	12.6
G136-G139	3346.363	265.565	-22.084	10.3	18.6	18.8
G136-G143	5937.532	211.111	-490.759	5.6	11.5	9.0
G137-G138	248.855	65.340	74.266	8.3	14.4	11.6
G137-G143	5462.142	161.687	-510.118	6.8	13.4	11.4
G138-G139	2622.118	150.802	-115.708	12.5	21.8	20.9
G138-G143	5213.287	96.348	-584.384	9.2	16.5	13.6
G139-G143	2591.169	-54.454	-468.676	9.9	18.0	18.6
G140-G148	5709.915	398.425	-135.386	4.0	10.8	6.5
G140-G436	-1830.274	-158.210	-10.734	6.1	13.3	9.0

G140-G141	1179.784	33.409	-112.032	3.1	9.1	5.6
G141-G142	1315.190	18.183	-160.230	2.8	9.3	3.7
G141-G143	2193.033	-6.663	-329.008	3.7	8.0	4.3
G141-G148	4530.131	365.015	-23.354	3.0	6.7	3.6
G141-G436	-3010.058	-191.620	101.297	5.9	13.6	9.2
G142-G143	877.844	-24.846	-168.779	4.0	10.2	4.8
G142-G148	3214.941	346.832	136.875	3.5	10.0	4.1
G143-G144	926.054	115.306	65.270	6.7	23.9	7.2
G143-G145	1603.551	134.876	1.891	6.1	11.7	10.0
G143-G146	1818.519	198.808	80.567	7.3	13.9	13.2
G143-G147	2122.202	356.336	311.038	6.1	12.1	7.4
G143-G148	2337.098	371.679	305.654	4.0	8.7	4.5
G144-G147	1196.148	241.030	245.768	8.6	26.4	9.7
G145-G146	214.968	63.931	78.676	4.4	8.4	10.7
G145-G147	518.650	221.459	309.147	3.8	8.7	9.0
G146-G147	303.682	157.528	230.471	5.6	11.6	12.5
G148-G436	-7540.189	-556.635	124.652	6.5	14.8	9.7

4. Baseline Corrections (Corrections and Normalized Corrections)

Baseline	vN [mm]	vE [mm]	vH [mm]	vN/sN	vE/sE	vH/sH
B001-G004	33.6	-6.8	-26.7	3.8	-0.9	-1.4
B001-G004	5.3	1.7	-6.8	0.6	0.2	-0.4
B001-G122	9.9	-7.9	-0.3	1.2	-1.2	-0.0
B001-G141	-6.5	16.5	17.9	-0.8	2.5	1.1
B001-G141	-10.2	2.3	0.0	-1.3	0.4	0.0
B001-G148	-11.6	0.3	7.7	-1.4	0.0	0.4
B005-G101	-0.4	-0.9	0.6	-0.1	-0.2	0.1
B005-G109	0.4	1.4	-1.6	0.1	0.2	-0.2
B005-B007	-0.9	-0.7	0.7	-0.3	-0.2	0.1
B005-B007	1.0	0.1	-0.7	0.3	0.0	-0.1
B005-G100	-0.4	-1.7	2.7	-0.1	-0.3	0.3
B005-G104	-1.1	2.3	-3.8	-0.2	0.5	-0.5
B005-G110	-0.1	1.0	0.6	-0.0	0.2	0.1
B007-G100	1.1	-0.3	-0.7	0.2	-0.0	-0.1
B007-G101	0.8	-1.0	0.3	0.2	-0.2	0.0
B007-G109	-0.1	0.8	-1.5	-0.0	0.1	-0.1
B007-G104	-1.9	2.4	-2.9	-0.4	0.5	-0.3
B007-G110	-0.7	0.7	1.7	-0.1	0.1	0.2
G001-G003	-2.2	-0.5	4.2	-0.2	-0.1	0.2
G001-G003	3.8	2.6	0.6	0.3	0.3	0.0
G001-G002	0.8	0.2	-0.3	0.1	0.0	-0.0
G001-G007	-2.9	-2.5	-4.0	-0.1	-0.2	-0.1
G001-G011	-3.9	-5.1	-6.7	-0.3	-0.5	-0.3
G002-G003	4.3	2.9	0.8	0.3	0.3	0.0
G003-G007	0.7	-0.1	-4.3	0.0	-0.0	-0.1
G003-G011	-1.6	-0.8	-1.6	-0.2	-0.1	-0.1

G003-G011	-8.8	-15.8	-0.5	-1.0	-1.8	-0.0
G003-G013	-16.6	-31.5	-7.1	-1.9	-3.5	-0.4
G003-G141	-16.8	-30.9	-52.4	-20055.9	-36820.3	-62496.3
G003-G141	-32.7	-50.0	-14.2	-39024.2	-59666.0	-16932.8
G003-G148	-14.9	-27.3	-52.4	-4.5	-8.8	-7.8
G004-G008	0.2	0.1	2.4	0.0	0.0	0.1
G004-G013	-12.2	17.8	31.6	-1.3	1.8	1.5
G004-G109	2.4	-4.2	-30.9	0.5	-0.9	-2.8
G004-G109	6.2	-8.1	-11.6	1.3	-1.7	-1.0
G004-G141	-19.3	16.5	34.7	-4.2	3.5	3.1
G004-G141	-40.1	23.1	42.4	-8.7	4.9	3.8
G004-G141	-15.7	-0.1	9.1	-3.4	-0.0	0.8
G004-G148	-16.9	-2.5	17.2	-3.0	-0.5	1.3
G004-G107	5.5	-7.0	-10.8	1.1	-1.3	-0.8
G004-G108	4.6	-7.5	-6.1	0.9	-1.3	-0.4
G004-G110	-2.7	-7.1	-31.0	-0.4	-1.0	-2.1
G004-G116	8.7	-7.4	15.3	1.9	-1.6	1.4
G004-G122	-24.5	-1.9	27.3	-4.3	-0.3	2.2
G004-G122	2.3	-0.8	34.0	0.4	-0.2	2.7
G007-G011	-1.2	-1.5	-4.5	-0.1	-0.1	-0.1
G008-G122	1.0	1.4	21.7	0.1	0.1	1.1
G011-G013	-7.9	-14.0	-5.8	-0.7	-1.2	-0.2
G011-G141	-24.3	-32.8	-11.9	-2.6	-3.7	-0.5
G013-G141	-15.5	-20.3	12.9	-1.8	-2.2	0.7
G013-G141	-2.6	-0.9	8.7	-0.3	-0.1	0.5
G100-G101	0.4	-0.5	0.7	0.1	-0.1	0.1
G101-G103	0.0	-0.7	-0.4	0.0	-0.2	-0.0
G101-G104	1.0	-0.6	-0.1	0.2	-0.2	-0.0
G101-G102	-0.3	0.1	-0.3	-0.1	0.0	-0.0
G102-G103	-0.1	0.3	-3.1	-0.0	0.1	-0.3
G102-G104	-0.9	0.1	2.9	-0.2	0.0	0.3
G103-G104	0.2	-0.7	-2.3	0.0	-0.2	-0.3
G104-G109	1.2	-1.7	1.8	0.2	-0.4	0.2
G104-G105	-0.3	-0.0	-1.6	-0.1	-0.0	-0.2
G104-G106	-0.3	-0.1	-3.4	-0.0	-0.0	-0.3
G104-G107	-1.5	-0.4	-2.0	-0.3	-0.1	-0.3
G104-G110	0.5	-2.1	4.7	0.1	-0.4	0.5
G105-G106	2.6	1.4	-2.5	0.3	0.2	-0.2
G105-G107	-1.6	-0.2	-1.1	-0.3	-0.1	-0.1
G106-G107	2.5	0.3	-3.1	0.3	0.1	-0.3
G107-G109	0.7	-0.0	-3.5	0.2	-0.0	-0.5
G107-G108	-0.2	0.6	-1.4	-0.0	0.2	-0.1
G108-G109	0.9	0.2	-3.8	0.3	0.1	-0.4
G109-G110	-0.3	0.8	1.8	-0.0	0.1	0.2
G109-G116	7.4	-3.5	39.8	8837.6	-4174.6	47430.2
G109-G122	1.2	1.7	57.0	0.3	0.5	7.8
G110-G116	10.1	0.9	43.1	1.5	0.2	4.1
G110-G122	5.2	5.7	62.5	0.7	0.8	4.9

G116-G119	-8.4	5.5	3.2	-1.2	0.9	0.3
G116-G122	-10.7	3.2	15.9	-2.8	0.9	2.2
G116-G122	-18.2	16.9	11.3	-4.7	4.8	1.5
G116-G122	-20.3	8.2	1.9	-5.3	2.3	0.3
G116-G149	-11.2	0.8	4.2	-1.5	0.1	0.4
G116-G123	-21.3	15.8	4.6	-2.9	2.3	0.3
G116-G124	-22.7	12.8	7.1	-4.9	3.1	0.8
G119-G149	0.4	0.6	0.5	0.1	0.1	0.1
G119-G122	-14.4	4.3	-0.6	-2.0	0.7	-0.1
G120-G124	1.8	2.9	2.5	0.3	0.5	0.1
G120-G121	0.5	-1.4	-3.4	0.1	-0.3	-0.2
G120-G122	-2.3	-0.9	1.9	-0.5	-0.2	0.1
G121-G122	-0.9	-1.0	-0.5	-0.3	-0.3	-0.0
G121-G123	5.0	0.0	-8.7	0.7	0.0	-0.6
G121-G124	2.3	2.2	0.1	0.6	0.6	0.0
G122-G123	6.3	1.2	-8.5	1.0	0.2	-0.7
G122-G123	-1.9	-3.4	-5.2	-0.3	-0.6	-0.4
G122-G124	3.2	3.0	-0.6	1.2	1.4	-0.1
G122-G124	1.2	-0.8	0.9	0.4	-0.4	0.2
G122-G124	-3.3	-3.9	-1.9	-1.2	-1.8	-0.4
G122-G126	-0.3	3.3	-11.9	-0.1	0.6	-0.9
G122-G126	-1.3	-0.6	13.4	-0.2	-0.1	1.0
G122-G133	-10.6	0.6	4.1	-2.0	0.1	0.3
G122-G133	-4.4	-2.3	17.2	-0.8	-0.5	1.4
G122-G134	-10.8	2.0	2.9	-2.6	0.5	0.3
G122-G134	-10.1	-8.7	13.2	-2.4	-2.2	1.4
G122-G134	-0.7	-2.2	-14.8	-0.2	-0.5	-1.6
G122-G135	-4.7	0.3	-6.6	-0.7	0.0	-0.5
G122-G136	-10.9	1.9	5.1	-2.0	0.4	0.3
G122-G141	-16.0	25.0	14.3	-4.1	7.1	2.0
G122-G141	-11.9	7.8	19.6	-3.1	2.2	2.7
G122-G141	-15.3	-5.7	20.6	-4.0	-1.6	2.8
G122-G141	-9.7	2.2	-15.5	-2.5	0.6	-2.1
G122-G149	11.1	-5.0	0.4	1.5	-0.7	0.0
G122-G125	0.5	0.0	0.8	0.1	0.0	0.1
G122-G130	-2.0	3.0	-1.1	-0.3	0.5	-0.1
G122-G132	-9.1	2.3	-2.5	-0.6	0.2	-0.1
G123-G124	-2.5	-0.6	3.5	-0.4	-0.1	0.3
G123-G124	-3.9	1.8	8.4	-0.6	0.3	0.7
G124-G126	1.7	2.5	2.0	0.3	0.4	0.1
G124-G125	-0.5	0.2	1.1	-0.1	0.1	0.1
G125-G126	-4.1	1.7	15.2	-0.6	0.3	1.0
G126-G130	-0.9	-0.6	8.9	-0.2	-0.1	0.5
G127-G128	6.1	-5.1	2.9	0.7	-0.6	0.2
G127-G129	3.5	0.3	4.3	0.3	0.0	0.3
G127-G131	-2.1	0.6	-2.5	-0.4	0.1	-0.2
G127-G132	-0.4	0.4	-2.1	-0.1	0.1	-0.2
G128-G131	1.8	-1.9	-1.2	0.3	-0.2	-0.1

G129-G131	1.3	-0.4	2.5	0.1	-0.0	0.2
G129-G132	-2.2	0.5	-2.4	-0.2	0.1	-0.1
G130-G141	-8.7	6.3	17.3	-1.3	0.9	1.0
G131-G132	0.2	-0.5	1.9	0.0	-0.1	0.2
G132-G134	-8.4	-0.3	1.8	-0.6	-0.0	0.0
G132-G136	-7.8	-0.2	-3.1	-0.5	-0.0	-0.1
G133-G134	-1.2	1.2	-1.1	-0.3	0.3	-0.1
G133-G134	-7.6	-6.2	7.7	-1.8	-1.6	0.7
G133-G136	0.5	1.7	2.1	0.1	0.3	0.1
G133-G141	-18.4	-6.6	28.9	-3.4	-1.3	2.4
G134-G135	-1.9	0.9	2.6	-0.3	0.1	0.2
G134-G136	0.9	-0.4	7.3	0.2	-0.1	0.5
G134-G141	-14.9	-0.8	16.0	-3.5	-0.2	1.7
G134-G141	-10.0	3.3	2.9	-2.3	0.8	0.3
G135-G141	-6.7	1.8	-1.1	-1.0	0.2	-0.1
G136-G137	0.2	1.2	2.4	0.0	0.2	0.2
G136-G138	-1.8	0.3	0.1	-0.2	0.0	0.0
G136-G139	-1.1	3.3	4.5	-0.1	0.3	0.2
G136-G143	-2.5	3.3	4.5	-0.4	0.6	0.3
G137-G138	0.1	0.4	0.4	0.0	0.0	0.0
G137-G143	-1.5	3.3	4.6	-0.2	0.5	0.3
G138-G139	1.5	3.9	5.5	0.1	0.3	0.2
G138-G143	-3.8	0.2	1.0	-0.4	0.0	0.1
G139-G143	-0.2	2.2	2.7	-0.0	0.2	0.1
G140-G148	2.6	0.6	-0.5	0.6	0.1	-0.0
G140-G436	0.3	0.5	-0.7	0.1	0.1	-0.0
G140-G141	-0.3	-0.1	0.4	-0.1	-0.0	0.0
G141-G142	1.4	0.3	-3.7	0.3	0.1	-0.4
G141-G143	0.0	-0.8	-3.0	0.0	-0.2	-0.4
G141-G148	2.4	5.9	3.7	0.7	1.9	0.5
G141-G148	-1.0	-2.9	9.1	-0.3	-0.9	1.3
G141-G148	0.6	-0.1	-3.9	0.2	-0.0	-0.6
G141-G148	3.2	1.0	-0.3	1.0	0.3	-0.0
G141-G436	0.3	-0.2	1.0	0.0	-0.0	0.1
G142-G143	3.3	0.9	-2.1	0.6	0.2	-0.2
G142-G148	-0.8	-0.1	-2.4	-0.2	-0.0	-0.2
G143-G144	-0.7	-0.1	0.7	-0.1	-0.0	0.0
G143-G145	2.3	-0.5	1.7	0.2	-0.1	0.1
G143-G146	-3.9	0.5	-5.2	-0.3	0.1	-0.3
G143-G147	0.2	0.4	-0.1	0.0	0.1	-0.0
G143-G148	0.8	1.0	-1.1	0.2	0.2	-0.1
G144-G147	-7.5	-0.5	9.9	-0.5	-0.1	0.4
G145-G146	1.4	-0.0	1.4	0.2	-0.0	0.1
G145-G147	-0.3	-0.1	-0.4	-0.0	-0.0	-0.0
G146-G147	3.8	-0.6	4.8	0.4	-0.1	0.3
G148-G436	-2.7	-1.3	-0.1	-0.4	-0.2	-0.0

Baselines which were rejected by the statistical test are marked.

5. Adjusted Points in NAD83 (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
B001	449216.464	-5528432.247	3138244.290	6.4	15.2	10.1
B005	444814.003	-5514484.432	3163146.597	5.4	10.3	7.0
B007	443366.263	-5513906.696	3164351.410	5.5	10.5	7.3
G001	480805.655	-5521915.455	3144988.927	8.6	15.6	13.3
G002	483895.771	-5522251.769	3143934.462	9.7	17.8	14.9
G003	473695.440	-5523450.844	3143382.561	0.0	0.0	0.0
G004	453335.112	-5519810.138	3152699.593	4.7	10.2	6.5
G007	487794.316	-5527999.996	3133280.676	16.5	37.8	24.4
G008	453424.578	-5520070.544	3152231.965	9.6	18.5	10.6
G011	474361.337	-5528657.789	3134172.707	9.3	19.9	14.4
G013	459502.092	-5522961.964	3146324.137	9.0	16.7	12.0
G100	445439.564	-5514748.544	3162602.540	6.4	11.6	7.7
G101	446079.926	-5515064.230	3161965.059	5.0	10.4	6.6
G102	446696.817	-5515354.370	3161376.039	5.5	13.4	7.3
G103	447329.242	-5515693.609	3160699.483	5.4	12.1	6.9
G104	447944.575	-5516094.471	3159917.386	4.2	8.3	5.8
G105	448414.842	-5516460.349	3159217.193	5.1	10.2	7.4
G106	448878.129	-5516881.548	3158420.891	6.7	12.9	9.8
G107	449245.856	-5517275.441	3157684.447	3.0	7.2	4.2
G108	449556.381	-5517687.788	3156924.360	3.3	9.3	4.4
G109	449831.257	-5517964.060	3156406.107	0.0	0.0	0.0
G110	444640.626	-5517376.706	3158161.848	5.6	10.2	7.4
G116	443851.016	-5523146.290	3148231.694	0.0	0.0	0.0
G119	444540.651	-5524258.058	3146213.492	6.1	11.5	6.2
G120	445004.427	-5524833.506	3145132.784	7.5	21.0	10.1
G121	445457.695	-5525225.848	3144386.267	5.1	11.7	6.7
G122	446058.589	-5525819.152	3143265.667	3.5	7.0	4.4
G123	446444.694	-5526159.440	3142616.046	6.8	13.1	8.7
G124	446872.900	-5526649.545	3141698.654	4.1	8.5	5.3
G125	447484.065	-5527353.973	3140376.009	5.1	11.1	6.3
G126	447881.612	-5527515.918	3140038.947	6.2	14.6	8.1
G127	448384.332	-5527902.728	3139288.178	12.9	31.6	31.5
G128	449098.691	-5527854.295	3139274.149	15.6	33.3	31.8
G129	449411.261	-5528005.401	3138963.402	13.6	32.3	34.1
G130	448161.454	-5527876.432	3139368.342	6.1	16.9	9.0
G131	449542.619	-5528005.717	3138945.768	12.8	31.5	31.2
G132	450448.314	-5527690.816	3139368.392	11.5	29.6	29.6
G133	450741.345	-5527465.537	3139718.509	5.0	11.5	6.4
G134	451982.702	-5527224.247	3139962.335	4.2	9.1	4.5
G135	453242.222	-5527056.018	3140076.323	7.9	13.8	6.5
G136	453637.064	-5527025.393	3140077.400	5.3	12.3	8.6
G137	454112.453	-5526975.969	3140096.758	6.9	14.5	11.4
G138	454361.308	-5526910.629	3140171.024	9.3	17.5	13.7

G139	456983.426	-5526759.827	3140055.316	10.3	19.2	18.8
G140	456201.778	-5526841.027	3140027.681	3.1	9.1	5.6
G141	457381.562	-5526807.618	3139915.649	0.0	0.0	0.0
G142	458696.752	-5526789.435	3139755.419	2.8	9.3	3.7
G143	459574.595	-5526814.281	3139586.641	3.7	8.0	4.3
G144	460500.649	-5526698.976	3139651.911	7.7	25.2	8.4
G145	461178.147	-5526679.405	3139588.532	7.1	14.2	10.9
G146	461393.114	-5526615.473	3139667.208	8.1	16.0	13.9
G147	461696.797	-5526457.946	3139897.679	7.1	14.5	8.6
G148	461911.693	-5526442.603	3139892.295	3.0	6.7	3.6
G149	444933.719	-5524156.584	3146319.085	6.6	12.1	6.4
G436	454371.504	-5526999.238	3140016.946	5.9	13.6	9.2

6. Adjusted Points in NAD83 (Geogr. Coordinates and Std.Dev.)

Point	Lat [Deg]	Lon [Deg]	ell.H [m]						
B001	N29° 39' 57.61197"	W85° 21' 16.55590"	-25.172						
B005	N29° 55' 29.53310"	W85° 23' 18.03851"	-23.901						
B007	N29° 56' 14.65684"	W85° 24' 10.11466"	-22.532						
G001	N29° 44' 09.74637"	W85° 01' 25.24017"	-22.857						
G002	N29° 43' 30.28135"	W84° 59' 31.77893"	-21.353						
G003	N29° 43' 09.66581"	W85° 05' 53.74748"	-22.644						
G004	N29° 48' 58.28612"	W85° 18' 17.66381"	-24.506						
G007	N29° 36' 52.09363"	W84° 57' 26.07985"	-22.863						
G008	N29° 48' 40.80031"	W85° 18' 15.13701"	-25.466						
G011	N29° 37' 25.45286"	W85° 05' 45.62384"	-24.679						
G013	N29° 44' 59.71350"	W85° 14' 38.51197"	-24.150						
G100	N29° 55' 09.13940"	W85° 22' 55.58414"	-23.501						
G101	N29° 54' 45.26286"	W85° 22' 32.73736"	-23.980						
G102	N29° 54' 23.19246"	W85° 22' 10.68878"	-23.868						
G103	N29° 53' 57.84399"	W85° 21' 48.21372"	-23.750						
G104	N29° 53' 28.55112"	W85° 21' 26.56267"	-24.027						
G105	N29° 53' 02.31790"	W85° 21' 10.19800"	-23.740						
G106	N29° 52' 32.49480"	W85° 20' 54.26213"	-23.874						
G107	N29° 52' 04.92249"	W85° 20' 41.79530"	-24.365						
G108	N29° 51' 36.46165"	W85° 20' 31.51049"	-24.574						
G109	N29° 51' 17.05161"	W85° 20' 22.13911"	-24.409						
G110	N29° 52' 22.74882"	W85° 23' 33.14373"	-21.515						
G116	N29° 46' 11.09760"	W85° 24' 19.69503"	-25.263						
G119	N29° 44' 55.44154"	W85° 23' 57.42538"	-16.980						
G120	N29° 44' 15.12580"	W85° 23' 41.93988"	-22.793						
G121	N29° 43' 47.18747"	W85° 23' 26.30001"	-21.842						
G122	N29° 43' 05.28118"	W85° 23' 05.78919"	-21.928						
G123	N29° 42' 40.99703"	W85° 22' 52.48976"	-22.358						
G124	N29° 42' 06.70101"	W85° 22' 38.08016"	-22.709						
G125	N29° 41' 17.29698"	W85° 22' 17.53331"	-25.184						
G126	N29° 41' 04.67441"	W85° 22' 03.28118"	-24.004						

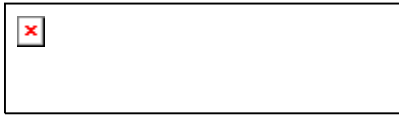
G127	N29° 40' 36.63707"	W85° 21' 45.80733"	-25.506				
G128	N29° 40' 36.08804"	W85° 21' 19.18080"	-24.175				
G129	N29° 40' 24.49069"	W85° 21' 08.04954"	-25.166				
G130	N29° 40' 39.61022"	W85° 21' 53.99028"	-24.239				
G131	N29° 40' 23.81688"	W85° 21' 03.18138"	-24.372				
G132	N29° 40' 39.60742"	W85° 20' 28.65875"	-23.987				
G133	N29° 40' 52.71441"	W85° 20' 17.11554"	-25.020				
G134	N29° 41' 01.83695"	W85° 19' 30.36808"	-25.436				
G135	N29° 41' 06.09650"	W85° 18' 43.16705"	-25.344				
G136	N29° 41' 06.09854"	W85° 18' 28.43724"	-23.281				
G137	N29° 41' 06.81120"	W85° 18' 10.66435"	-22.686				
G138	N29° 41' 09.62615"	W85° 18' 01.24036"	-24.771				
G139	N29° 41' 05.31337"	W85° 16' 23.58116"	-25.463				
G140	N29° 41' 04.26715"	W85° 16' 52.80382"	-24.755				
G141	N29° 41' 00.07872"	W85° 16' 08.96988"	-24.736				
G142	N29° 40' 54.10218"	W85° 15' 20.16486"	-25.452				
G143	N29° 40' 47.77293"	W85° 14' 47.70407"	-24.373				
G144	N29° 40' 50.22717"	W85° 14' 13.02477"	-25.147				
G145	N29° 40' 47.84714"	W85° 13' 47.85360"	-24.563				
G146	N29° 40' 50.80410"	W85° 13' 39.68833"	-25.422				
G147	N29° 40' 59.42521"	W85° 13' 27.94500"	-25.722				
G148	N29° 40' 59.23138"	W85° 13' 19.93248"	-26.125				
G149	N29° 44' 59.54058"	W85° 23' 42.54032"	-25.015				
G436	N29° 41' 03.84504"	W85° 18' 01.13241"	-23.630				

8. Adjusted Points Error Ellipses

Point	A [mm]	B [mm]	Angle [Deg]
B001	8.4	6.0	26.2
B005	6.7	5.2	32.7
B007	6.7	5.4	31.7
G001	12.2	7.1	28.0
G002	13.7	8.3	25.2
G003	0.0	0.0	0.0
G004	5.0	4.4	51.3
G007	19.6	14.3	27.7
G008	10.3	8.6	71.4
G011	9.9	8.0	39.7
G013	9.7	7.9	54.5
G100	7.7	5.9	40.2
G101	6.5	4.8	27.5
G102	7.6	5.5	17.6
G103	7.1	5.2	24.3
G104	5.5	4.0	26.1
G105	6.4	4.8	25.1
G106	8.7	6.1	25.4

G107	3.6	2.6	47.9
G108	3.9	2.9	54.3
G109	0.0	0.0	0.0
G110	7.2	5.2	33.5
G116	0.0	0.0	0.0
G119	8.3	4.8	37.4
G120	6.7	6.0	-49.1
G121	5.2	4.6	25.0
G122	4.1	3.3	33.2
G123	8.0	5.9	38.6
G124	4.8	3.9	28.3
G125	6.3	4.9	22.4
G126	6.8	6.3	29.1
G127	17.1	12.2	18.6
G128	17.7	15.2	3.1
G129	19.9	13.2	13.0
G130	7.2	6.1	43.9
G131	17.0	11.9	20.4
G132	15.7	10.1	24.6
G133	5.8	4.6	33.1
G134	4.6	4.0	43.5
G135	8.4	6.8	69.0
G136	5.9	4.7	37.8
G137	7.5	6.4	32.6
G138	8.9	8.7	-42.9
G139	13.0	9.4	17.0
G140	3.8	3.3	2.9
G141	0.0	0.0	0.0
G142	4.6	2.6	23.3
G143	4.7	3.2	34.3
G144	14.3	7.3	9.1
G145	10.1	7.0	0.5
G146	12.1	7.9	-5.1
G147	9.1	6.8	15.0
G148	3.5	2.8	37.5
G149	8.7	5.1	40.8
G436	6.9	5.4	47.0

Appendix C Tier 2 Adjustment Part 3



Network Adjustment

<http://www.ashtech.com/>

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Statistics	
Network Adjustment in NAD83.	
Number of baselines	394
Number of terrestrial measurements	0
Geoidmodel	Southeastern US NOAA96
Number of control points in NAD83	9
Number of adjusted points	135
Confidence level	2 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	0.507
Number of iterations	1

1. Baselines Input in NAD83 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
F001-F002	10130.008	1325.161	594.822	24.9	59.6	41.0
F001-F002	10130.021	1325.182	594.819	27.4	86.2	49.1
F001-F005	-884.429	232.910	565.961	42.2	61.0	49.9
F001-F006	-17193.501	-5553.769	-6803.748	55.5	113.4	52.4
F001-F006	-17193.516	-5553.774	-6803.748	53.1	110.0	99.6
F001-F007	-21563.608	-8463.213	-11149.888	80.4	149.2	123.4
F001-F029	-7759.680	-2662.085	-3326.104	28.5	55.7	22.4
F001-F029	-7759.692	-2662.092	-3326.111	28.7	66.9	65.1
F001-F101	-17006.723	-9843.636	-14294.113	70.9	144.1	67.5
F001-F101	-17006.749	-9843.642	-14294.124	70.5	135.2	112.6
F001-F114	-6195.096	-6677.104	-10547.037	42.2	83.4	38.2
F001-F120	10040.966	238.293	-1274.582	25.2	59.9	38.3
F001-F120	10040.956	238.293	-1274.577	34.3	67.9	31.2
F001-F458	-12960.244	-8719.867	-12997.468	54.4	126.6	57.6
F002-F005	-11014.447	-1092.276	-28.854	31.0	97.7	55.6
F002-F120	-89.045	-1086.876	-1869.403	20.4	41.9	33.8
F002-F120	-89.046	-1086.873	-1869.395	16.4	38.0	29.4
F004-F129	-5650.828	-9448.593	-15328.205	44.6	112.2	50.3

F004-F138	-4104.052	-6886.817	-11165.916	34.4	83.5	39.1
F006-F007	-4370.087	-2909.446	-4346.136	23.9	59.5	50.6
F006-F029	9433.823	2891.684	3477.643	29.1	66.5	29.7
F006-F029	9433.826	2891.680	3477.643	26.6	58.1	50.7
F006-F101	186.777	-4289.868	-7490.363	24.9	52.2	25.7
F006-F101	186.772	-4289.872	-7490.373	28.4	51.6	46.8
F006-F114	10998.405	-1123.335	-3743.288	38.5	76.8	34.6
F006-F458	4233.255	-3166.097	-6193.721	23.5	52.5	26.5
F006-F120	27234.457	5792.062	5529.172	84.9	169.8	77.1
F007-F008	-8564.867	-1758.681	-1702.117	42.4	55.6	26.6
F007-F029	13803.916	5801.124	7823.779	46.1	93.7	74.6
F007-F087	-3660.061	-6490.647	-10734.925	33.0	77.5	42.6
F007-F101	4556.860	-1380.414	-3144.231	21.6	44.3	25.3
F007-F101	4556.860	-1380.423	-3144.238	38.6	76.7	53.2
F008-F033	-5129.702	-3568.887	-5424.606	40.2	57.9	29.4
F008-F034	-1244.255	-6443.926	-11050.346	50.2	95.4	43.9
F008-F087	4904.805	-4731.977	-9032.805	40.1	75.9	38.5
F008-F087	4904.798	-4731.969	-9032.801	36.1	69.3	33.3
F008-F101	13121.725	378.263	-1442.115	47.4	84.3	40.1
F009-F010	-1996.052	-223.188	-76.762	11.4	17.4	11.5
F009-F033	8026.691	738.544	42.844	47.5	89.8	35.8
F009-F034	11912.139	-2136.517	-5582.880	33.5	81.2	45.4
F009-F067	1902.510	-5971.409	-10730.575	38.8	70.4	42.5
F009-F075	7801.362	-3593.501	-7485.511	27.8	70.0	35.5
F009-F075	7801.355	-3593.503	-7485.501	32.8	63.3	43.8
F010-G001	-3090.120	336.318	1054.440	48.6	105.2	76.2
F010-G003	-10200.346	-1199.088	-551.867	82.1	205.2	123.1
F010-F067	3898.565	-5748.223	-10653.813	38.2	62.6	51.8
F010-F075	9797.411	-3370.320	-7408.737	35.2	69.6	48.1
F029-F101	-9247.044	-7181.550	-10968.006	45.6	94.7	47.0
F029-F101	-9247.057	-7181.550	-10968.017	41.7	85.1	69.5
F029-F114	1564.580	-4015.015	-7220.933	25.0	51.8	22.9
F029-F458	-5200.567	-6057.788	-9671.359	36.0	73.6	36.3
F029-F120	17800.633	2900.375	2051.526	55.8	107.2	49.0
F030-F129	5942.331	276.057	-529.015	32.6	67.7	38.2
F030-F130	6720.169	342.078	-550.129	44.2	75.9	76.2
F031-F130	1902.881	325.641	237.572	44.9	65.5	60.7
F031-F131	2261.229	426.448	351.026	20.8	33.8	18.1
F032-F131	-391.852	-2387.302	-4062.819	77.9	140.2	106.8
F033-F034	3885.448	-2875.051	-5625.731	50.4	67.9	31.6
F033-F034	3885.450	-2875.059	-5625.728	49.5	71.4	36.1
F033-F075	-225.328	-4332.047	-7528.355	49.0	80.6	33.9
F033-F087	10034.498	-1163.093	-3608.185	39.8	66.9	32.3
F034-F072	-5801.951	-2189.314	-2913.141	70.6	73.3	73.6
F034-F073	-5520.621	-2091.878	-2787.169	67.2	70.1	70.4
F034-F075	-4110.777	-1456.989	-1902.629	21.0	52.5	25.3
F034-F075	-4110.780	-1456.977	-1902.644	48.8	50.4	50.2
F034-F077	-3189.313	-1036.169	-1312.411	27.9	33.0	26.7

F034-F077	-3189.315	-1036.166	-1312.405	37.5	39.5	39.5
F034-F081	410.841	113.653	133.191	11.6	18.1	15.1
F034-F081	410.839	113.651	133.194	14.8	33.2	22.2
F034-F083	2329.523	591.654	666.350	20.2	35.6	24.8
F034-F384	-1134.380	-429.631	-573.508	13.8	13.9	13.9
F034-F662	-7163.067	-2764.855	-3717.899	87.2	90.2	90.5
F034-F673	-4123.779	-1513.164	-1999.928	48.9	49.0	49.0
F050-F301	-28.772	-67.217	-114.396	7.8	10.0	5.5
F050-F302	134.011	-167.100	-315.400	9.9	13.0	7.3
F050-F303	403.437	-226.259	-456.721	8.9	12.5	8.1
F052-F303	-557.601	114.188	278.927	4.5	14.7	7.4
F052-F304	-316.544	60.942	146.493	4.8	11.5	6.0
F052-F305	-21.853	4.518	8.088	3.3	11.0	5.6
F052-F306	181.216	-79.189	-172.981	5.1	16.7	6.1
F052-F307	515.814	-106.013	-268.602	12.6	38.6	14.2
F052-F308	749.781	-191.969	-457.448	7.6	27.8	10.4
F056-F057	322.604	-155.385	-320.735	631.8	501.5	96.6
F056-F058	513.791	-271.654	-556.116	32.0	89.1	32.4
F056-F317	-247.597	6.283	49.838	7.8	22.8	9.6
F056-F318	-60.393	-93.587	-156.751	6.9	22.7	8.5
F056-F319	161.182	-193.489	-364.939	7.9	26.2	10.6
F056-F320	384.658	-310.201	-604.034	9.1	28.4	12.4
F056-F321	594.056	-341.255	-689.533	36.5	100.2	37.8
F056-F322	693.306	-340.912	-703.417	97.1	291.0	101.7
F057-F058	191.219	-116.282	-235.380	586.7	504.6	83.6
F058-F321	80.265	-69.600	-133.418	22.8	57.6	21.9
F058-F322	179.507	-69.230	-147.305	92.7	285.3	89.3
F059-F060	931.820	231.172	267.979	12.8	25.1	19.2
F059-F323	-626.042	-131.103	-136.652	14.4	20.5	14.5
F059-F324	-325.291	-79.338	-90.624	9.6	13.7	9.8
F059-F325	-41.141	-13.270	-17.254	10.6	12.1	9.9
F059-F326	261.091	54.405	54.701	6.5	14.6	10.4
F059-F327	551.000	124.537	133.334	10.5	21.2	14.2
F059-F328	844.851	200.890	226.339	12.2	21.8	19.1
F059-F901	-843.684	585.022	1148.925	11.6	23.1	19.0
F060-F061	794.850	212.215	244.004	9.9	19.4	15.9
F060-F326	-670.728	-176.770	-213.277	13.2	28.6	19.0
F060-F327	-380.819	-106.635	-134.643	8.2	19.7	14.2
F060-F328	-86.968	-30.281	-41.640	5.4	11.3	7.7
F060-F329	190.106	51.123	57.541	9.9	12.6	8.4
F060-F330	481.071	126.666	142.545	8.7	15.5	12.1
F060-F331	770.968	200.665	228.201	13.7	20.7	17.2
F061-F062	861.046	218.628	250.498	10.2	30.3	16.5
F061-F329	-604.746	-161.092	-186.463	10.6	25.4	17.5
F061-F330	-313.779	-85.549	-101.460	9.8	22.4	15.3
F061-F331	-23.883	-11.549	-15.803	5.7	15.6	10.1
F061-F332	258.429	62.941	71.994	8.0	25.0	9.1
F061-F333	535.449	141.350	169.842	12.1	39.0	14.7

F061-F334	851.826	203.776	227.547	10.6	39.7	17.9
F062-F332	-602.617	-155.690	-178.502	9.6	28.7	14.9
F062-F333	-325.597	-77.282	-80.653	9.2	28.8	12.1
F062-F334	-9.221	-14.854	-22.947	4.8	14.5	7.8
F062-F336	546.067	135.187	154.509	18.3	34.0	19.8
F062-F337	854.796	208.381	234.319	14.9	29.6	12.7
F062-F338	1101.554	264.597	299.722	20.6	38.1	20.3
F062-F339	1415.685	358.369	411.007	21.6	45.1	33.6
F064-F335	-1681.930	-457.598	-543.591	22.3	65.1	26.3
F064-F343	586.717	159.897	190.089	10.7	25.6	12.8
F064-F344	870.428	236.252	280.744	14.3	48.7	20.0
F064-F902	-789.751	-144.022	-133.143	15.4	38.9	16.6
F066-F067	401.458	116.919	143.032	13.1	18.3	22.5
F066-F348	-720.204	-210.355	-261.026	22.8	36.4	19.3
F066-F349	-447.664	-126.213	-155.830	14.2	23.1	11.2
F066-F350	-161.704	-53.250	-72.015	7.4	17.8	8.3
F066-F351	30.359	28.512	48.523	12.8	22.6	13.9
F067-G003	-14098.879	4549.160	10101.883	106.4	252.5	157.1
F067-G001	-6988.665	6084.545	11708.247	94.7	216.3	140.3
F067-F068	918.759	319.283	414.624	5.2	12.8	10.8
F067-F068	918.756	319.286	414.618	10.9	10.9	10.9
F067-F069	1413.719	500.493	656.987	6.6	14.1	10.1
F067-F072	4207.672	1645.582	2234.575	11.8	28.3	22.3
F067-F072	4207.673	1645.566	2234.578	51.4	52.2	52.7
F067-F075	5898.847	2377.903	3245.075	25.0	40.7	25.8
F067-F662	2846.554	1070.028	1429.821	34.4	34.5	34.4
F067-F301	-13432.979	-657.794	892.035	67.1	152.6	98.7
F068-F069	494.960	181.209	242.364	4.7	10.1	10.4
F068-F072	3288.914	1326.298	1819.953	9.8	21.0	19.8
F068-F072	3288.917	1326.284	1819.958	40.8	41.7	42.1
F068-F662	1927.799	750.745	1015.201	23.6	23.7	23.7
F069-F072	2793.954	1145.089	1577.589	9.6	19.7	18.0
F072-F073	281.323	97.438	125.973	7.9	11.5	4.7
F072-F073	281.330	97.439	125.971	4.1	5.2	5.3
F072-F075	1691.176	732.323	1010.497	12.7	17.4	7.9
F072-F075	1691.179	732.322	1010.500	22.1	23.6	23.7
F072-F076	1928.042	868.948	1210.808	11.0	18.0	8.8
F072-F662	-1361.118	-575.538	-804.759	17.9	18.8	19.1
F072-F662	-1361.117	-575.536	-804.759	17.7	18.9	19.0
F072-F673	1678.173	676.139	913.213	21.2	22.6	22.7
F073-F075	1409.854	634.884	884.525	12.6	17.8	7.2
F073-F075	1409.849	634.878	884.531	18.3	18.3	18.3
F073-F076	1646.719	771.511	1084.835	10.0	17.5	7.3
F073-F662	-1642.447	-672.975	-930.730	20.5	20.6	20.6
F073-F673	1396.843	578.698	787.242	17.5	17.5	17.5
F075-F076	236.866	136.625	200.310	10.1	13.1	5.7
F075-F076	236.870	136.620	200.303	6.0	14.1	6.4
F075-F077	921.466	420.816	590.215	9.4	18.9	9.3

F075-F077	921.463	420.816	590.231	37.9	36.2	41.5
F075-F078	1562.935	629.661	855.495	8.8	21.0	11.8
F075-F081	4521.607	1570.633	2035.846	53.3	55.0	54.6
F075-F384	2976.398	1027.349	1329.135	35.2	36.5	36.2
F075-F662	-3052.296	-1307.853	-1815.261	38.6	38.8	38.7
F075-F673	-13.006	-56.180	-97.288	1.3	1.3	1.3
F075-F673	-13.002	-56.183	-97.289	2.0	3.0	2.8
F076-F077	684.596	284.197	389.911	9.3	19.4	8.9
F076-F078	1326.064	493.041	655.193	7.4	17.4	8.8
F077-F078	641.469	208.845	265.280	9.1	18.7	9.5
F077-F078	641.472	208.835	265.287	10.2	15.6	11.6
F077-F081	3600.154	1149.823	1445.602	21.5	26.7	20.8
F077-F081	3600.143	1149.820	1445.605	41.7	43.3	43.2
F077-F384	2054.936	606.534	738.898	23.5	24.7	24.6
F077-F673	-934.465	-477.001	-687.518	13.6	15.0	14.9
F078-F081	2958.680	940.991	1180.313	16.0	20.8	18.2
F081-F082	1075.579	281.336	322.722	13.1	14.3	14.6
F081-F083	1918.684	478.001	533.159	17.6	24.1	18.9
F081-F384	-1545.208	-543.286	-706.707	18.3	18.4	18.3
F081-F694	1399.029	268.554	250.883	15.9	16.9	17.2
F081-F673	-4534.609	-1626.819	-2133.130	53.6	53.9	53.8
F082-F083	843.107	196.654	210.439	10.0	11.5	11.5
F082-F085	2565.566	654.139	734.444	28.9	30.8	30.9
F082-F694	323.450	-12.782	-71.839	4.7	5.7	6.0
F082-F694	323.451	-12.782	-71.840	4.4	5.7	5.8
F083-F703	2183.431	508.127	541.030	25.0	26.8	26.8
F083-F085	1722.459	457.485	524.006	20.0	21.8	21.8
F083-F085	1722.458	457.483	524.007	20.5	22.2	22.2
F083-F086	2765.775	755.991	878.598	32.2	34.2	34.1
F083-F694	-519.656	-209.436	-282.279	7.5	9.1	9.2
F085-F086	1043.318	298.507	354.591	13.2	14.8	14.8
F085-F694	-2242.115	-666.920	-806.285	26.2	28.0	28.1
F085-F703	460.973	50.644	17.023	6.2	7.6	7.7
F086-F087	1053.770	364.295	472.605	12.2	17.1	7.6
F086-F087	1053.767	364.300	472.593	13.6	15.8	15.8
F086-F088	2337.403	856.881	1127.531	18.2	30.6	12.0
F086-F088	2337.390	856.879	1127.525	29.2	31.9	31.9
F086-F703	-582.345	-247.864	-337.569	8.8	10.2	10.3
F086-F703	-582.346	-247.865	-337.568	8.6	10.7	10.7
F087-F088	1283.633	492.586	654.926	13.5	23.7	9.3
F087-F088	1283.631	492.577	654.927	13.4	21.6	9.7
F087-F088	1283.623	492.579	654.933	17.0	19.7	19.7
F087-F088	1283.624	492.583	654.936	16.3	17.9	17.5
F087-F092	3406.809	1743.979	2500.060	19.9	32.4	16.1
F087-F094	5063.258	2724.672	3942.663	28.4	45.5	23.9
F087-F101	8216.920	5110.231	7590.695	30.8	73.2	39.9
F087-F703	-1636.112	-612.165	-810.161	21.1	23.9	23.9
F087-F718	2288.290	1013.660	1401.223	30.1	32.1	31.7

F087-F728	4484.967	2379.483	3433.636	64.3	66.8	66.2
F088-F092	2123.178	1251.401	1845.133	18.1	27.1	10.8
F088-F094	3779.629	2232.094	3287.736	20.0	37.6	15.4
F088-F703	-2919.735	-1104.744	-1465.094	36.6	39.8	39.8
F088-F718	1004.665	521.076	746.286	14.8	16.4	16.1
F088-F728	3201.342	1886.900	2778.698	48.2	50.7	50.2
F092-F094	1656.451	980.693	1442.603	11.9	17.1	19.5
F092-F094	1656.454	980.688	1442.605	14.6	25.4	11.1
F092-F096	2614.827	1550.121	2281.438	14.3	21.1	22.5
F092-F097	3161.174	1927.770	2854.268	16.8	25.6	28.2
F094-F096	958.377	569.428	838.834	8.6	14.3	13.7
F094-F097	1504.724	947.081	1411.661	14.3	19.4	22.7
F096-F097	546.350	377.653	572.824	6.3	10.0	8.0
F096-F097	546.348	377.650	572.830	7.1	13.6	13.7
F096-F098	879.722	620.402	942.065	8.5	12.4	9.8
F096-F099	1454.668	1012.906	1530.507	13.1	18.7	15.4
F097-F098	333.372	242.748	369.242	5.6	9.9	7.2
F097-F098	333.368	242.738	369.246	6.4	7.2	7.4
F097-F099	908.318	635.251	957.686	10.0	16.8	14.1
F097-F100	1404.441	927.299	1387.625	23.0	24.0	24.3
F097-F718	-4279.686	-2658.079	-3953.108	65.5	67.9	66.9
F097-F728	-2083.002	-1292.272	-1920.684	32.5	34.7	33.8
F097-F101	1648.928	1438.468	2236.373	32.6	33.8	34.1
F098-F099	574.953	392.504	588.440	6.8	11.8	7.5
F098-F099	574.947	392.501	588.444	8.6	13.3	9.2
F098-F100	1071.065	684.561	1018.381	9.0	14.5	9.7
F098-F100	1071.073	684.561	1018.380	17.4	18.4	18.7
F098-F101	1315.564	1195.730	1867.127	10.7	17.9	12.7
F098-F101	1315.560	1195.730	1867.127	27.1	28.2	28.5
F099-F100	496.112	292.057	429.940	5.7	11.9	7.2
F099-F101	740.612	803.226	1278.688	10.2	18.1	10.0
F100-F101	244.499	511.167	848.748	6.7	12.8	8.0
F100-F101	244.505	511.173	848.746	26.2	65.5	49.7
F100-F102	2474.959	1616.306	2409.880	33.3	83.9	62.9
F101-F114	10811.627	3166.532	3747.077	42.5	84.3	38.2
F101-F458	4046.478	1123.769	1296.644	13.2	38.0	21.1
F101-F102	2230.453	1105.134	1561.133	31.5	82.9	64.5
F101-F120	27047.679	10081.928	13019.537	99.0	196.6	89.6
F111-F458	-4710.051	-1414.990	-1692.752	55.2	129.8	106.5
F114-F458	-6765.149	-2042.765	-2450.432	20.3	50.6	27.2
F114-F120	16236.052	6915.397	9272.460	60.4	117.8	54.2
F120-F121	478.888	-41.543	-151.649	7.9	21.4	16.0
F120-F129	4929.302	202.988	-483.953	19.2	31.7	32.1
F120-F458	-23001.203	-8958.152	-11722.893	80.2	181.7	79.9
F120-F123	1056.243	-83.176	-318.386	10.2	17.1	10.4
F121-F124	1939.239	-134.940	-560.447	14.4	24.4	17.7
F121-F123	577.354	-41.631	-166.738	7.2	13.2	12.2
F121-F123	577.355	-41.631	-166.733	10.6	16.8	12.6

F123-F125	1827.237	-68.218	-431.021	22.0	73.4	20.9
F123-F124	1361.884	-93.308	-393.715	10.7	18.6	13.4
F123-F124	1361.881	-93.308	-393.712	14.4	27.3	15.4
F124-F125	465.356	25.085	-37.309	39.6	108.6	37.2
F124-F125	465.349	25.097	-37.307	16.7	33.7	34.7
F124-F128	1726.487	209.634	66.856	21.7	33.8	40.6
F125-F128	1261.138	184.517	104.164	10.0	23.7	14.7
F125-F128	1261.147	184.525	104.167	31.6	49.0	25.6
F125-F129	2045.834	354.375	265.456	30.6	50.3	24.8
F128-F129	784.686	169.848	161.289	8.0	15.3	6.6
F128-F129	784.687	169.850	161.295	10.6	15.0	10.8
F128-F130	1562.518	235.874	140.163	14.6	31.0	42.4
F129-F130	777.830	66.024	-21.132	10.2	21.8	28.6
F129-F130	777.833	66.021	-21.124	14.4	21.3	27.0
F129-F138	1546.774	2561.765	4162.290	43.8	37.0	27.4
F130-F131	358.345	100.809	113.457	22.8	40.7	42.1
F131-F133	364.434	274.575	412.657	12.9	32.0	31.3
F131-F133	364.440	274.575	412.644	7.9	16.9	9.4
F131-F134	513.393	525.561	820.425	8.1	17.0	18.7
F133-F134	148.953	250.986	407.780	10.5	36.1	22.8
F133-F134	148.954	251.001	407.758	18.4	36.1	29.0
F133-F134	148.959	251.002	407.764	11.5	18.1	12.9
F133-F136	410.706	1500.447	2527.422	11.2	26.2	29.9
F133-F136	410.701	1500.440	2527.418	12.3	16.7	13.7
F134-F136	261.749	1249.442	2119.654	14.4	20.7	17.7
F134-F136	261.745	1249.439	2119.640	14.9	28.9	18.0
F134-F136	261.742	1249.439	2119.654	15.2	23.2	18.5
F134-F137	100.853	1519.948	2614.515	18.0	32.6	20.2
F136-F137	-160.891	270.506	494.876	10.3	19.6	9.6
F136-F138	-364.539	619.914	1129.896	9.4	15.2	12.4
F137-F138	-203.647	349.402	635.024	11.5	31.9	14.9
F138-F139	-263.546	263.686	499.528	16.6	24.0	9.5
F301-G003	-665.913	5206.940	9209.846	29.6	64.1	49.8
F301-G003	-665.899	5206.945	9209.853	69.3	164.6	99.4
F301-G013	-14859.231	5695.825	12151.440	47.5	103.4	81.6
F301-G141	-16979.743	1850.175	5742.969	43.8	93.3	77.9
F301-G001	6444.313	6742.337	10816.215	76.1	172.8	110.9
F301-F302	162.783	-99.884	-201.004	8.3	12.4	6.6
F301-F303	432.208	-159.040	-342.325	8.6	11.8	8.1
F301-F901	4905.154	-810.808	-2165.089	82.1	131.4	91.0
F302-F303	269.424	-59.156	-141.321	9.5	14.1	8.2
F303-F304	241.058	-53.247	-132.434	4.4	11.8	6.6
F303-F305	535.749	-109.669	-270.839	5.2	20.5	8.7
F304-F305	294.691	-56.422	-138.405	4.4	13.9	7.1
F306-F307	334.598	-26.827	-95.621	9.3	30.2	10.5
F306-F308	568.564	-112.776	-284.467	8.8	34.2	12.2
F307-F308	233.966	-85.950	-188.846	13.2	43.1	13.5
F308-F309	253.382	-52.986	-129.987	12.1	14.1	14.8

F308-F310	487.339	-141.160	-320.297	18.2	24.7	19.4
F308-F900	429.907	26.592	-19.641	16.4	17.3	20.3
F309-F310	233.958	-88.176	-190.309	8.6	13.9	12.1
F309-F900	176.523	79.579	110.348	8.9	10.9	12.3
F310-F311	290.732	-64.467	-155.672	9.2	25.0	11.0
F310-F312	510.413	-153.255	-344.678	12.3	33.4	13.8
F310-F313	729.657	-235.669	-522.391	14.3	39.7	17.0
F310-F314	984.553	-308.715	-690.036	18.3	48.7	21.2
F310-F900	-57.433	167.751	300.657	15.3	20.4	18.9
F311-F312	219.681	-88.788	-189.006	6.7	18.5	8.5
F311-F313	438.925	-171.200	-366.718	9.9	29.8	12.9
F311-F314	693.822	-244.248	-534.364	14.7	34.9	18.5
F312-F313	219.244	-82.414	-177.712	8.3	23.4	9.8
F312-F314	474.140	-155.460	-345.359	12.5	29.7	15.4
F313-F314	254.896	-73.045	-167.647	12.0	31.9	15.2
F314-F315	260.086	-72.858	-163.759	8.6	16.6	14.2
F314-F316	435.482	-187.051	-392.760	8.7	15.0	14.4
F314-F317	660.443	-272.032	-574.861	12.6	24.1	24.2
F315-F316	175.397	-114.195	-229.000	8.2	16.6	17.2
F315-F317	400.357	-199.175	-411.102	6.8	13.5	16.5
F316-F317	224.959	-84.981	-182.102	7.5	13.2	13.1
F317-F318	187.204	-99.869	-206.588	5.0	14.8	7.9
F317-F319	408.780	-199.772	-414.776	9.1	29.1	12.5
F317-F320	632.256	-316.481	-653.867	14.1	40.1	19.3
F318-F319	221.575	-99.903	-208.189	7.1	19.5	9.7
F318-F320	445.052	-216.614	-447.280	8.8	28.3	15.1
F319-F320	223.476	-116.712	-239.092	9.6	24.6	12.0
F321-F322	99.240	0.370	-13.891	111.3	327.2	115.0
F323-F324	300.751	51.765	46.028	9.3	12.6	10.5
F323-F325	584.903	117.834	119.396	15.0	19.8	17.6
F324-F325	284.152	66.068	73.368	10.5	12.4	11.2
F326-F327	289.910	70.134	78.634	9.1	19.8	12.3
F326-F328	583.761	146.487	171.637	11.6	23.8	16.4
F327-F328	293.851	76.354	93.003	7.6	14.9	13.6
F329-F330	290.966	75.542	85.003	8.3	15.5	12.1
F329-F331	580.863	149.542	170.660	11.5	23.4	14.1
F330-F331	289.898	73.999	85.654	8.6	16.6	11.9
F332-F333	277.019	78.410	97.849	6.2	22.6	8.4
F332-F334	593.396	140.836	155.555	8.3	28.1	11.8
F333-F334	316.377	62.426	57.706	6.5	21.2	7.9
F335-F343	2268.648	617.497	733.680	23.8	60.3	27.3
F335-F344	2552.357	693.854	824.330	27.0	69.1	34.5
F335-F902	892.180	313.571	410.449	14.8	50.2	21.6
F336-F337	308.731	73.193	79.811	17.7	36.0	18.5
F336-F338	555.490	129.408	145.214	18.3	32.1	18.5
F336-F339	869.618	223.185	256.498	17.3	30.4	27.9
F337-F338	246.759	56.215	65.403	12.9	24.5	14.7
F337-F339	560.890	149.990	176.687	24.7	46.6	28.7

F338-F339	314.130	93.774	111.285	18.4	38.0	26.1
F339-F340	261.939	81.149	101.961	13.5	38.3	13.3
F339-F341	539.439	150.752	181.851	6.6	20.3	8.7
F339-F342	845.045	235.165	282.472	14.0	36.5	12.2
F339-F343	1122.986	318.507	385.358	19.6	54.3	21.6
F340-F341	277.502	69.605	79.891	10.9	27.7	11.8
F340-F342	583.109	154.020	180.510	7.1	20.7	8.7
F340-F343	861.049	237.366	283.396	12.8	34.8	13.0
F341-F342	305.606	84.413	100.621	10.9	24.5	10.0
F341-F343	583.547	167.758	203.507	13.8	40.1	15.5
F342-F343	277.941	83.345	102.887	15.9	37.4	16.0
F343-F344	283.710	76.355	90.654	13.5	41.7	16.5
F343-F344	283.714	76.363	90.648	9.4	19.8	20.5
F343-F902	-1376.469	-303.922	-323.232	15.8	35.1	18.9
F343-F903	139.609	142.240	225.786	10.3	17.8	18.7
F344-F345	293.024	70.168	77.668	16.3	36.3	18.4
F344-F346	585.892	142.358	160.201	20.2	47.7	23.3
F344-F347	868.011	226.584	263.774	16.5	42.9	18.5
F344-F348	1152.382	311.129	368.433	15.2	32.2	19.3
F344-F902	-1660.177	-380.282	-413.884	19.3	60.0	28.2
F344-F903	-144.105	65.878	135.139	10.1	22.7	25.7
F345-F346	292.868	72.191	82.531	14.0	28.9	15.0
F345-F347	574.986	156.417	186.106	15.0	38.2	19.6
F345-F348	859.359	240.958	290.766	24.5	50.0	27.7
F346-F347	282.118	84.228	103.573	8.4	18.1	10.2
F346-F348	566.491	168.769	208.234	16.9	37.2	20.3
F347-F348	284.372	84.542	104.660	11.6	24.8	13.2
F348-F349	272.540	84.145	105.197	9.7	17.1	9.6
F348-F350	558.500	157.108	189.011	15.6	31.5	15.3
F348-F351	750.564	238.867	309.551	18.3	40.6	20.8
F349-F350	285.960	72.962	83.814	9.2	15.7	8.2
F349-F351	478.024	154.724	204.353	12.7	31.7	16.3
F350-F351	192.063	81.761	120.538	9.0	21.3	11.1
F384-F673	-2989.401	-1083.535	-1426.420	35.5	35.7	35.6
F662-F673	3039.290	1251.673	1717.973	37.8	38.0	37.9
F718-F728	2196.679	1365.825	2032.415	34.7	37.1	36.6
G001-G003	-7110.208	-1535.409	-1606.307	73.5	184.7	137.9
G001-G003	-7110.215	-1535.382	-1606.365	40.9	97.5	60.5
G003-G013	-14193.317	488.885	2941.594	34.8	78.1	58.2
G013-G141	-2120.511	-3845.634	-6408.481	30.7	56.9	42.1

Baselines which were rejected by the statistical test are marked.

2. NAD83 Control Points Input (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
F001	529176.716	-5507499.273	3162330.730	0.0	0.0	0.0

G003	473695.440	-5523450.844	3143382.561	0.0	0.0	0.0
F007	507613.116	-5515962.485	3151180.828	0.0	0.0	0.0
F101	512169.974	-5517342.899	3148036.588	0.0	0.0	0.0
F120	539217.693	-5507260.986	3161056.162	0.0	0.0	0.0
F067	487794.359	-5528000.009	3133280.639	0.0	0.0	0.0
F138	545693.773	-5504496.229	3164734.492	0.0	0.0	0.0
F034	497803.987	-5524165.111	3138428.371	0.0	0.0	0.0
G141	457381.562	-5526807.618	3139915.649	0.0	0.0	0.0

3. Adjusted Baselines in NAD83 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
F001-F002	10130.020	1325.162	594.828	4.7	11.4	7.9
F001-F005	-884.428	232.903	565.965	12.8	26.0	18.1
F001-F006	-17193.513	-5553.763	-6803.766	5.2	10.7	6.5
F001-F007	-21563.600	-8463.212	-11149.902	0.0	0.0	0.0
F001-F029	-7759.687	-2662.085	-3326.116	5.6	11.1	6.2
F001-F101	-17006.742	-9843.626	-14294.142	0.0	0.0	0.0
F001-F114	-6195.106	-6677.099	-10547.051	7.1	15.1	7.4
F001-F120	10040.977	238.287	-1274.568	0.0	0.0	0.0
F001-F458	-12960.258	-8719.862	-12997.487	5.2	13.0	7.0
F002-F005	-11014.449	-1092.259	-28.863	12.5	27.2	18.2
F002-F120	-89.043	-1086.875	-1869.396	4.7	11.4	7.9
F004-F129	-5650.828	-9448.586	-15328.203	14.2	34.3	16.1
F004-F138	-4104.051	-6886.821	-11165.916	13.9	34.1	15.8
F006-F007	-4370.087	-2909.449	-4346.136	5.2	10.7	6.5
F006-F029	9433.826	2891.677	3477.650	6.3	12.7	7.4
F006-F101	186.771	-4289.863	-7490.376	5.2	10.7	6.5
F006-F114	10998.407	-1123.336	-3743.285	7.8	16.4	8.4
F006-F458	4233.255	-3166.099	-6193.721	6.4	14.6	7.9
F006-F120	27234.490	5792.050	5529.198	5.2	10.7	6.5
F007-F008	-8564.869	-1758.688	-1702.121	8.1	14.2	7.1
F007-F029	13803.913	5801.127	7823.786	5.6	11.1	6.2
F007-F087	-3660.060	-6490.665	-10734.925	4.5	6.6	4.8
F007-F101	4556.858	-1380.414	-3144.240	0.0	0.0	0.0
F008-F033	-5129.700	-3568.883	-5424.614	10.6	17.9	8.4
F008-F034	-1244.260	-6443.938	-11050.336	8.1	14.2	7.1
F008-F087	4904.809	-4731.977	-9032.804	8.1	14.6	7.6
F008-F101	13121.727	378.274	-1442.119	8.1	14.2	7.1
F009-F010	-1996.053	-223.188	-76.763	5.2	8.3	5.5
F009-F033	8026.702	738.544	42.860	10.7	18.8	9.4
F009-F034	11912.141	-2136.510	-5582.862	6.5	13.2	7.8
F009-F067	1902.513	-5971.408	-10730.594	6.5	13.2	7.8
F009-F075	7801.364	-3593.503	-7485.506	6.5	13.2	7.9
F010-G001	-3090.131	336.318	1054.445	13.4	29.8	20.5
F010-G003	-10200.353	-1199.055	-551.908	7.3	13.9	8.9
F010-F067	3898.566	-5748.220	-10653.830	7.3	13.9	8.9

F010-F075	9797.417	-3370.315	-7408.742	7.3	13.9	8.9
F029-F101	-9247.055	-7181.541	-10968.026	5.6	11.1	6.2
F029-F114	1564.581	-4015.013	-7220.935	7.7	15.9	7.7
F029-F458	-5200.572	-6057.777	-9671.371	6.8	15.1	8.1
F029-F120	17800.664	2900.372	2051.548	5.6	11.1	6.2
F030-F129	5942.333	276.056	-529.013	13.0	25.7	16.2
F030-F130	6720.164	342.080	-550.141	13.1	25.8	17.3
F031-F130	1902.884	325.638	237.569	10.7	17.3	12.6
F031-F131	2261.228	426.449	351.026	9.5	15.2	8.8
F032-F131	-391.852	-2387.302	-4062.819	39.4	71.0	54.1
F033-F034	3885.440	-2875.055	-5625.721	9.2	14.8	6.9
F033-F075	-225.338	-4332.047	-7528.365	9.4	15.2	7.2
F033-F087	10034.509	-1163.093	-3608.190	9.5	15.4	7.6
F034-F072	-5801.954	-2189.316	-2913.144	2.5	4.2	3.4
F034-F073	-5520.626	-2091.879	-2787.172	2.8	4.4	3.5
F034-F075	-4110.777	-1456.992	-1902.644	2.8	4.3	3.3
F034-F077	-3189.312	-1036.169	-1312.424	3.3	4.9	3.7
F034-F081	410.838	113.659	133.184	3.1	4.7	3.8
F034-F083	2329.524	591.659	666.342	4.4	6.1	5.0
F034-F384	-1134.377	-429.632	-573.515	4.9	5.1	4.9
F034-F662	-7163.072	-2764.854	-3717.903	4.9	5.4	5.0
F034-F673	-4123.782	-1513.173	-1999.932	2.9	4.3	3.4
F050-F301	-28.772	-67.217	-114.396	3.0	3.9	2.2
F050-F302	134.011	-167.101	-315.400	3.3	4.5	2.5
F050-F303	403.436	-226.258	-456.721	3.2	4.4	2.7
F052-F303	-557.602	114.188	278.927	1.6	5.0	2.5
F052-F304	-316.544	60.941	146.493	1.6	4.3	2.2
F052-F305	-21.853	4.519	8.088	1.4	4.4	2.2
F052-F306	181.216	-79.189	-172.981	2.3	7.5	2.7
F052-F307	515.814	-106.015	-268.602	3.6	11.6	4.1
F052-F308	749.780	-191.967	-457.448	2.9	10.4	3.8
F056-F057	322.582	-155.376	-320.735	215.1	179.6	32.8
F056-F058	513.791	-271.654	-556.116	12.4	33.7	12.4
F056-F317	-247.597	6.283	49.837	2.4	7.5	3.2
F056-F318	-60.393	-93.586	-156.751	2.3	7.2	3.0
F056-F319	161.182	-193.489	-364.939	2.5	7.9	3.4
F056-F320	384.658	-310.200	-604.032	2.9	8.7	4.0
F056-F321	594.056	-341.255	-689.534	13.1	35.6	13.2
F056-F322	693.301	-340.895	-703.420	29.8	89.7	30.3
F057-F058	191.208	-116.278	-235.381	215.5	180.3	32.4
F058-F321	80.265	-69.601	-133.418	10.3	26.4	10.0
F058-F322	179.510	-69.241	-147.304	29.4	88.6	29.7
F059-F060	931.819	231.172	267.978	3.2	6.5	4.8
F059-F323	-626.042	-131.103	-136.652	4.4	5.9	4.6
F059-F324	-325.291	-79.338	-90.623	3.7	4.9	3.8
F059-F325	-41.140	-13.270	-17.255	4.0	4.8	3.9
F059-F326	261.091	54.404	54.701	2.7	5.8	4.1
F059-F327	551.001	124.537	133.334	3.0	6.3	4.5

F059-F328	844.852	200.891	226.338	3.1	6.2	4.7
F059-F901	-843.684	585.023	1148.927	5.8	11.5	9.5
F060-F061	794.851	212.214	244.003	3.0	5.9	4.4
F060-F326	-670.729	-176.768	-213.277	3.1	6.7	4.6
F060-F327	-380.819	-106.635	-134.644	2.7	5.9	4.3
F060-F328	-86.968	-30.281	-41.640	2.3	4.8	3.3
F060-F329	190.105	51.123	57.541	3.1	4.8	3.4
F060-F330	481.071	126.666	142.545	2.9	5.2	3.9
F060-F331	770.968	200.665	228.200	3.2	5.8	4.2
F061-F062	861.046	218.628	250.495	2.9	9.1	4.2
F061-F329	-604.746	-161.091	-186.462	3.0	6.2	4.4
F061-F330	-313.780	-85.549	-101.459	2.8	6.0	4.4
F061-F331	-23.883	-11.549	-15.803	2.4	5.8	3.9
F061-F332	258.429	62.939	71.993	2.8	8.9	3.6
F061-F333	535.449	141.348	169.842	3.0	9.6	3.9
F061-F334	851.826	203.774	227.548	2.9	9.2	4.0
F062-F332	-602.617	-155.689	-178.502	2.6	8.1	3.7
F062-F333	-325.598	-77.280	-80.653	2.5	8.0	3.5
F062-F334	-9.221	-14.854	-22.947	2.0	6.2	3.1
F062-F336	546.067	135.186	154.508	5.7	10.9	6.1
F062-F337	854.797	208.380	234.319	5.3	10.4	5.0
F062-F338	1101.556	264.595	299.722	5.7	10.9	5.9
F062-F339	1415.686	358.369	411.006	6.2	12.0	8.0
F064-F335	-1681.930	-457.597	-543.591	5.9	16.8	7.4
F064-F343	586.716	159.896	190.090	3.9	10.0	5.0
F064-F344	870.429	236.255	280.741	4.1	11.0	5.8
F064-F902	-789.751	-144.025	-133.142	4.8	12.7	5.8
F066-F067	401.459	116.919	143.029	6.5	9.2	11.0
F066-F348	-720.204	-210.355	-261.026	4.5	8.4	4.4
F066-F349	-447.664	-126.212	-155.830	3.8	7.0	3.5
F066-F350	-161.704	-53.249	-72.015	3.0	6.5	3.2
F066-F351	30.360	28.512	48.523	3.7	7.7	4.1
F067-G003	-14098.919	4549.165	10101.922	0.0	0.0	0.0
F067-G001	-6988.697	6084.539	11708.275	12.6	28.9	19.6
F067-F068	918.759	319.287	414.623	1.9	3.3	3.0
F067-F069	1413.719	500.495	656.988	2.2	4.4	3.7
F067-F072	4207.674	1645.582	2234.588	2.5	4.2	3.4
F067-F075	5898.851	2377.906	3245.088	2.8	4.3	3.3
F067-F662	2846.556	1070.044	1429.829	4.9	5.4	5.0
F067-F301	-13433.017	-657.777	892.056	9.5	19.9	15.2
F068-F069	494.960	181.208	242.365	1.9	4.1	3.8
F068-F072	3288.916	1326.295	1819.964	2.6	4.6	4.0
F068-F662	1927.797	750.757	1015.206	4.9	5.6	5.3
F069-F072	2793.955	1145.088	1577.599	2.8	5.2	4.5
F072-F073	281.328	97.437	125.973	1.6	1.9	1.5
F072-F075	1691.176	732.323	1010.501	2.3	3.0	2.0
F072-F076	1928.046	868.947	1210.808	2.6	4.0	2.2
F072-F662	-1361.118	-575.539	-804.759	4.5	4.4	4.4

F072-F673	1678.171	676.143	913.212	2.4	3.1	2.0
F073-F075	1409.849	634.886	884.528	2.4	3.0	1.9
F073-F076	1646.718	771.509	1084.835	2.6	4.0	2.1
F073-F662	-1642.446	-672.976	-930.731	4.6	4.6	4.5
F073-F673	1396.844	578.706	787.240	2.4	3.1	2.0
F075-F076	236.869	136.623	200.307	1.9	3.5	1.7
F075-F077	921.465	420.823	590.220	2.4	3.9	2.5
F075-F078	1562.935	629.664	855.502	2.5	4.8	2.9
F075-F081	4521.615	1570.652	2035.828	3.7	5.3	4.2
F075-F384	2976.400	1027.360	1329.129	5.2	5.7	5.3
F075-F662	-3052.294	-1307.862	-1815.259	4.8	5.0	4.6
F075-F673	-13.005	-56.180	-97.288	0.5	0.6	0.6
F076-F077	684.595	284.200	389.912	2.6	4.6	2.5
F076-F078	1326.065	493.041	655.194	2.5	5.1	2.8
F077-F078	641.470	208.840	265.282	2.5	4.5	2.8
F077-F081	3600.150	1149.828	1445.608	3.9	5.4	4.3
F077-F384	2054.936	606.537	738.909	5.3	5.9	5.4
F077-F673	-934.470	-477.004	-687.508	2.5	4.0	2.5
F078-F081	2958.680	940.988	1180.326	4.0	5.9	4.5
F081-F082	1075.579	281.344	322.719	4.0	4.7	4.4
F081-F083	1918.686	478.000	533.157	4.1	5.1	4.6
F081-F384	-1545.215	-543.292	-706.700	5.2	5.7	5.4
F081-F694	1399.030	268.562	250.879	4.0	4.7	4.5
F081-F673	-4534.620	-1626.832	-2133.117	3.7	5.3	4.3
F082-F083	843.107	196.656	210.439	2.9	3.5	3.4
F082-F085	2565.566	654.147	734.440	4.9	5.6	5.4
F082-F694	323.451	-12.782	-71.840	1.5	1.9	2.0
F083-F703	2183.432	508.136	541.023	4.7	5.5	5.2
F083-F085	1722.459	457.491	524.001	4.5	5.2	5.0
F083-F086	2765.777	756.003	878.589	4.8	5.7	5.2
F083-F694	-519.657	-209.438	-282.278	2.8	3.4	3.3
F085-F086	1043.318	298.512	354.588	3.4	4.0	3.9
F085-F694	-2242.116	-666.929	-806.280	4.8	5.6	5.3
F085-F703	460.973	50.645	17.022	2.8	3.3	3.3
F086-F087	1053.768	364.299	472.601	3.4	4.1	2.8
F086-F088	2337.397	856.885	1127.528	3.9	5.0	3.2
F086-F703	-582.345	-247.867	-337.566	2.6	3.2	3.1
F087-F088	1283.629	492.585	654.927	3.0	4.0	2.4
F087-F092	3406.807	1743.993	2500.057	4.5	6.9	3.9
F087-F094	5063.258	2724.686	3942.659	4.6	7.0	4.3
F087-F101	8216.918	5110.251	7590.685	4.5	6.6	4.8
F087-F703	-1636.113	-612.166	-810.167	3.9	4.8	3.9
F087-F718	2288.294	1013.663	1401.215	6.7	7.6	7.0
F087-F728	4484.975	2379.492	3433.631	10.7	11.7	11.2
F088-F092	2123.178	1251.407	1845.130	4.7	6.9	3.7
F088-F094	3779.629	2232.101	3287.732	4.7	7.1	4.2
F088-F703	-2919.743	-1104.751	-1465.094	4.4	5.5	4.2
F088-F718	1004.665	521.078	746.288	6.3	7.0	6.8

F088-F728	3201.346	1886.907	2778.704	10.7	11.5	11.1
F092-F094	1656.452	980.694	1442.603	3.4	5.1	3.7
F092-F096	2614.828	1550.125	2281.434	3.6	5.6	4.8
F092-F097	3161.176	1927.780	2854.258	3.7	5.6	4.8
F094-F096	958.377	569.431	838.831	3.1	5.0	4.5
F094-F097	1504.725	947.086	1411.655	3.2	5.1	4.6
F096-F097	546.348	377.655	572.824	1.8	3.1	2.6
F096-F098	879.719	620.399	942.068	2.2	3.5	2.8
F096-F099	1454.670	1012.904	1530.508	2.6	4.2	3.2
F097-F098	333.371	242.744	369.244	1.7	2.5	2.1
F097-F099	908.322	635.249	957.684	2.3	3.6	2.7
F097-F100	1404.435	927.306	1387.623	2.7	4.1	3.2
F097-F718	-4279.689	-2658.110	-3953.100	7.6	9.2	8.1
F097-F728	-2083.008	-1292.281	-1920.684	10.8	11.7	11.2
F097-F101	1648.935	1438.478	2236.371	3.0	4.6	3.4
F098-F099	574.951	392.505	588.440	2.0	3.1	2.2
F098-F100	1071.064	684.562	1018.380	2.4	3.7	2.7
F098-F101	1315.564	1195.734	1867.127	2.7	4.3	3.0
F099-F100	496.114	292.057	429.940	2.2	3.9	2.6
F099-F101	740.613	803.229	1278.687	2.7	4.6	3.0
F100-F101	244.499	511.172	848.747	2.5	4.4	2.9
F100-F102	2474.956	1616.307	2409.880	11.6	29.8	22.8
F101-F114	10811.636	3166.527	3747.091	7.1	15.1	7.4
F101-F458	4046.484	1123.764	1296.655	5.2	13.0	7.0
F101-F102	2230.457	1105.135	1561.133	11.6	29.8	22.8
F101-F120	27047.719	10081.913	13019.574	0.0	0.0	0.0
F111-F458	-4710.051	-1414.990	-1692.752	28.0	65.8	53.9
F114-F458	-6765.152	-2042.764	-2450.437	7.2	16.5	8.4
F114-F120	16236.083	6915.386	9272.483	7.1	15.1	7.4
F120-F121	478.888	-41.544	-151.651	3.1	6.8	4.9
F120-F129	4929.303	202.992	-483.957	5.0	8.2	6.1
F120-F458	-23001.235	-8958.149	-11722.919	5.2	13.0	7.0
F120-F123	1056.243	-83.175	-318.386	3.3	6.3	4.2
F121-F124	1939.238	-134.939	-560.449	3.8	6.9	4.9
F121-F123	577.355	-41.631	-166.736	2.6	4.6	3.7
F123-F125	1827.234	-68.206	-431.024	4.9	10.4	5.6
F123-F124	1361.883	-93.308	-393.714	3.4	6.2	4.1
F124-F125	465.351	25.102	-37.310	4.6	9.7	6.0
F124-F128	1726.491	209.627	66.854	4.9	8.6	6.6
F125-F128	1261.140	184.525	104.164	4.0	8.4	4.7
F125-F129	2045.826	354.373	265.453	4.5	9.0	4.9
F128-F129	784.686	169.848	161.290	2.7	4.7	2.5
F128-F130	1562.517	235.872	140.162	3.9	7.2	7.9
F129-F130	777.831	66.024	-21.128	3.5	6.3	7.6
F129-F138	1546.777	2561.765	4162.287	5.0	8.2	6.1
F130-F131	358.344	100.811	113.457	6.2	11.1	10.0
F131-F133	364.439	274.573	412.646	2.7	5.7	3.8
F131-F134	513.395	525.570	820.416	2.9	6.1	4.8

F133-F134	148.956	250.998	407.770	2.5	5.0	3.7
F133-F136	410.702	1500.443	2527.415	2.7	5.0	4.0
F134-F136	261.746	1249.446	2119.645	2.8	5.1	3.7
F134-F137	100.854	1519.952	2614.520	4.4	8.6	5.0
F136-F137	-160.892	270.507	494.874	3.8	7.7	3.9
F136-F138	-364.539	619.913	1129.897	3.8	6.7	4.9
F137-F138	-203.647	349.407	635.022	4.2	9.1	5.2
F138-F139	-263.546	263.686	499.528	8.4	12.2	4.8
F301-G003	-665.902	5206.942	9209.866	9.5	19.9	15.2
F301-G013	-14859.242	5695.816	12151.444	13.0	27.0	20.5
F301-G141	-16979.780	1850.168	5742.954	9.5	19.9	15.2
F301-G001	6444.320	6742.316	10816.219	15.2	33.8	23.6
F301-F302	162.783	-99.884	-201.004	3.1	4.4	2.4
F301-F303	432.208	-159.041	-342.325	3.1	4.3	2.7
F301-F901	4905.185	-810.850	-2165.109	16.3	31.5	22.9
F302-F303	269.425	-59.157	-141.321	3.3	4.7	2.8
F303-F304	241.058	-53.247	-132.434	1.6	4.7	2.5
F303-F305	535.749	-109.669	-270.839	1.6	5.5	2.7
F304-F305	294.691	-56.423	-138.405	1.6	4.8	2.4
F306-F307	334.598	-26.826	-95.621	3.4	11.2	3.9
F306-F308	568.564	-112.778	-284.467	2.9	10.7	3.9
F307-F308	233.966	-85.952	-188.846	3.8	12.8	4.4
F308-F309	253.382	-52.986	-129.988	4.5	5.4	5.5
F308-F310	487.340	-141.161	-320.297	5.1	6.7	6.2
F308-F900	429.906	26.593	-19.640	5.0	5.8	6.3
F309-F310	233.958	-88.175	-190.309	3.7	5.5	4.9
F309-F900	176.524	79.579	110.348	3.6	4.5	4.9
F310-F311	290.732	-64.467	-155.672	3.4	9.2	4.0
F310-F312	510.413	-153.255	-344.678	3.6	9.7	4.2
F310-F313	729.657	-235.669	-522.390	3.8	10.6	4.6
F310-F314	984.553	-308.714	-690.037	4.4	11.5	5.3
F310-F900	-57.434	167.754	300.657	4.5	6.1	5.9
F311-F312	219.681	-88.787	-189.006	2.7	7.3	3.3
F311-F313	438.925	-171.201	-366.718	3.2	8.9	3.9
F311-F314	693.821	-244.247	-534.365	3.9	10.0	4.8
F312-F313	219.244	-82.414	-177.712	3.0	8.4	3.6
F312-F314	474.140	-155.460	-345.359	3.8	9.7	4.7
F313-F314	254.896	-73.046	-167.646	3.9	10.3	4.8
F314-F315	260.085	-72.857	-163.759	3.1	6.0	5.5
F314-F316	435.483	-187.052	-392.759	3.2	5.7	5.5
F314-F317	660.442	-272.032	-574.861	3.4	6.3	6.3
F315-F316	175.397	-114.195	-229.000	2.8	5.4	5.6
F315-F317	400.357	-199.175	-411.102	2.7	5.3	5.9
F316-F317	224.960	-84.980	-182.102	2.9	5.2	5.3
F317-F318	187.204	-99.869	-206.588	2.0	6.0	3.0
F317-F319	408.779	-199.772	-414.777	2.6	7.6	3.5
F317-F320	632.255	-316.483	-653.869	3.0	8.8	4.2
F318-F319	221.575	-99.903	-208.189	2.4	6.9	3.3

F318-F320	445.052	-216.614	-447.281	2.7	8.2	4.0
F319-F320	223.476	-116.711	-239.092	2.9	8.4	4.0
F321-F322	99.245	0.359	-13.886	29.7	89.2	30.1
F323-F324	300.751	51.765	46.028	3.8	5.1	4.2
F323-F325	584.902	117.833	119.397	4.5	5.8	4.8
F324-F325	284.151	66.068	73.368	3.8	4.7	4.0
F326-F327	289.910	70.133	78.634	2.9	6.3	4.3
F326-F328	583.761	146.487	171.637	3.0	6.3	4.5
F327-F328	293.851	76.354	93.003	2.6	5.4	4.3
F329-F330	290.966	75.542	85.004	2.9	5.3	3.9
F329-F331	580.863	149.542	170.659	3.1	6.0	4.1
F330-F331	289.897	73.999	85.655	2.8	5.6	4.0
F332-F333	277.019	78.410	97.848	2.3	8.0	3.1
F332-F334	593.396	140.835	155.555	2.4	8.0	3.4
F333-F334	316.377	62.426	57.706	2.3	7.5	3.0
F335-F343	2268.647	617.494	733.681	5.8	16.0	7.4
F335-F344	2552.359	693.852	824.332	5.9	16.4	7.9
F335-F902	892.180	313.573	410.448	5.5	16.5	7.4
F336-F337	308.730	73.194	79.811	5.5	10.6	5.8
F336-F338	555.489	129.409	145.214	5.6	10.4	6.1
F336-F339	869.619	223.183	256.497	5.8	10.9	7.9
F337-F338	246.759	56.215	65.403	5.0	9.5	5.4
F337-F339	560.889	149.989	176.687	6.0	11.8	7.8
F338-F339	314.131	93.774	111.284	5.9	11.5	7.9
F339-F340	261.937	81.144	101.961	3.6	9.8	3.8
F339-F341	539.439	150.751	181.851	2.8	8.2	3.4
F339-F342	845.046	235.164	282.472	3.6	9.6	3.7
F339-F343	1122.987	318.507	385.358	4.4	12.0	4.8
F340-F341	277.502	69.606	79.890	3.3	8.7	3.5
F340-F342	583.108	154.020	180.510	2.9	8.1	3.3
F340-F343	861.049	237.363	283.397	4.1	11.1	4.3
F341-F342	305.607	84.413	100.620	3.3	8.3	3.4
F341-F343	583.548	167.757	203.507	4.2	11.2	4.5
F342-F343	277.941	83.343	102.887	4.3	11.1	4.5
F343-F344	283.712	76.359	90.651	3.0	6.7	4.9
F343-F902	-1376.467	-303.921	-323.232	4.6	11.7	5.9
F343-F903	139.608	142.239	225.787	4.0	7.5	7.8
F344-F345	293.025	70.167	77.668	5.3	11.9	6.1
F344-F346	585.892	142.357	160.200	5.0	11.5	5.8
F344-F347	868.011	226.584	263.774	4.8	11.1	5.5
F344-F348	1152.383	311.126	368.434	5.0	11.1	6.0
F344-F902	-1660.179	-380.280	-413.883	4.8	12.6	6.6
F344-F903	-144.104	65.880	135.136	3.9	7.9	8.2
F345-F346	292.868	72.190	82.532	4.7	10.3	5.4
F345-F347	574.986	156.417	186.105	4.7	10.5	5.5
F345-F348	859.358	240.959	290.766	5.4	11.7	6.3
F346-F347	282.118	84.227	103.573	3.5	7.7	4.2
F346-F348	566.491	168.769	208.234	4.7	10.1	5.5

F347-F348	284.372	84.542	104.660	4.3	9.3	5.0
F348-F349	272.540	84.144	105.196	3.9	7.0	3.8
F348-F350	558.500	157.106	189.011	4.2	7.9	4.1
F348-F351	750.564	238.867	309.549	4.5	9.1	4.8
F349-F350	285.961	72.962	83.814	3.3	6.1	3.1
F349-F351	478.024	154.724	204.353	3.7	8.0	4.1
F350-F351	192.063	81.761	120.538	3.3	7.4	3.8
F384-F673	-2989.405	-1083.541	-1426.417	5.2	5.7	5.3
F662-F673	3039.289	1251.681	1717.971	4.8	5.0	4.6
F718-F728	2196.681	1365.829	2032.416	11.1	12.0	11.7
G001-G003	-7110.222	-1535.374	-1606.353	12.6	28.9	19.6
G003-G013	-14193.340	488.874	2941.578	10.6	21.5	16.1
G013-G141	-2120.538	-3845.648	-6408.490	10.6	21.5	16.1

4. Baseline Corrections (Corrections and Normalized Corrections)

Baseline	vN [mm]	vE [mm]	vH [mm]	vN/sN	vE/sE	vH/sH
F001-F002	5.2	12.2	3.3	0.9	2.5	0.3
F001-F002	-1.5	-2.4	22.1	-0.3	-0.5	1.8
F001-F005	0.5	-0.3	7.7	0.0	-0.0	0.3
F001-F006	-11.5	-11.5	-15.2	-2.7	-2.4	-1.3
F001-F006	-10.1	4.4	-18.5	-2.4	0.9	-1.5
F001-F007	-12.2	7.7	-7.6	-16975.9	10815.1	-10668.5
F001-F029	-10.2	-6.5	-6.1	-2.3	-1.2	-0.5
F001-F029	-0.9	6.4	-7.9	-0.2	1.2	-0.7
F001-F101	-19.1	-18.2	-24.2	-26606.9	-25467.3	-33809.2
F001-F101	-8.0	9.0	-22.1	-11168.6	12505.2	-30865.3
F001-F114	-8.8	-9.6	-12.9	-1.6	-1.5	-0.8
F001-F120	8.5	9.9	13.2	11827.3	13750.8	18494.6
F001-F120	4.0	20.5	11.7	5606.3	28607.5	16369.4
F001-F458	-14.1	-13.4	-14.8	-3.3	-2.8	-1.0
F002-F005	1.0	0.2	-19.2	0.1	0.0	-0.6
F002-F120	5.9	2.0	3.2	1.1	0.4	0.3
F002-F120	-2.2	2.2	2.0	-0.4	0.5	0.2
F004-F129	4.6	0.3	-5.2	0.3	0.0	-0.1
F004-F138	-2.6	-0.2	2.6	-0.2	-0.0	0.1
F006-F007	-1.2	0.3	2.8	-0.3	0.1	0.2
F006-F029	2.8	3.1	10.0	0.6	0.5	0.7
F006-F029	4.9	-0.3	5.7	1.0	-0.0	0.4
F006-F101	-8.1	-5.4	-11.3	-1.9	-1.1	-0.9
F006-F101	2.2	0.3	-8.9	0.5	0.1	-0.7
F006-F114	2.2	1.9	2.9	0.4	0.3	0.2
F006-F458	-1.7	-0.6	1.5	-0.3	-0.1	0.1
F006-F120	15.0	31.5	26.1	3.6	6.6	2.2
F007-F008	-7.4	-2.3	3.7	-1.2	-0.3	0.2
F007-F029	7.3	-2.6	1.4	1.7	-0.5	0.1
F007-F087	-9.2	-1.1	15.1	-2.6	-0.2	2.0

F007-F101	-7.4	-1.7	-4.9	-10369.1	-2351.7	-6870.4
F007-F101	2.6	-1.0	-9.2	3643.4	-1375.3	-12881.5
F008-F033	-5.7	2.3	-6.6	-0.8	0.2	-0.4
F008-F034	3.4	-5.9	14.7	0.6	-0.8	1.0
F008-F087	0.7	3.5	0.6	0.1	0.4	0.0
F008-F087	-6.5	10.1	6.0	-1.0	1.3	0.4
F008-F101	2.3	2.6	-11.0	0.4	0.3	-0.7
F009-F010	-0.8	-0.4	-1.3	-0.2	-0.1	-0.1
F009-F033	13.4	11.0	8.8	1.7	1.1	0.4
F009-F034	19.1	3.3	3.1	3.4	0.5	0.2
F009-F067	-16.1	3.5	-9.4	-2.9	0.6	-0.7
F009-F075	3.7	2.1	4.7	0.7	0.3	0.3
F009-F075	-3.7	8.6	-1.7	-0.7	1.4	-0.1
F010-G001	4.6	-11.0	0.9	0.3	-0.8	0.0
F010-G003	-19.1	-3.8	-49.0	-3.1	-0.5	-3.2
F010-F067	-13.9	1.1	-11.1	-2.3	0.1	-0.7
F010-F075	-2.3	6.2	-6.4	-0.4	0.9	-0.4
F029-F101	-11.8	-10.0	-18.7	-2.7	-1.9	-1.6
F029-F101	-3.2	2.7	-12.0	-0.7	0.5	-1.0
F029-F114	-0.1	0.8	-2.4	-0.0	0.1	-0.1
F029-F458	-4.5	-3.6	-16.1	-0.8	-0.6	-1.0
F029-F120	15.9	30.4	16.1	3.6	5.7	1.3
F030-F129	1.1	1.4	1.6	0.1	0.1	0.1
F030-F130	-9.7	-5.2	-8.1	-0.8	-0.4	-0.3
F031-F130	-4.2	2.3	1.3	-0.4	0.2	0.1
F031-F131	0.7	-0.6	-1.2	0.1	-0.1	-0.1
F032-F131	0.0	0.0	0.0	0.0	0.0	0.0
F033-F034	6.6	-9.1	7.5	1.0	-1.1	0.5
F033-F034	8.4	-9.9	-1.3	1.3	-1.2	-0.1
F033-F075	-8.5	-9.9	-5.7	-1.3	-1.1	-0.4
F033-F087	-4.9	10.9	-1.7	-0.8	1.2	-0.1
F034-F072	-3.8	-2.9	-0.3	-1.5	-1.1	-0.1
F034-F073	-3.1	-5.4	-1.1	-1.2	-1.9	-0.2
F034-F075	-14.8	-0.7	-4.1	-5.7	-0.2	-0.9
F034-F075	-7.8	0.8	13.6	-3.0	0.3	2.8
F034-F077	-11.4	0.1	-7.0	-3.9	0.0	-1.3
F034-F077	-18.3	2.5	-7.1	-6.2	0.8	-1.3
F034-F081	-2.6	-2.4	-9.2	-0.9	-0.8	-1.7
F034-F081	-3.8	-0.6	-11.8	-1.4	-0.2	-2.2
F034-F083	-4.5	1.3	-9.0	-1.3	0.3	-1.3
F034-F384	-7.3	2.5	-2.5	-1.6	0.5	-0.5
F034-F662	-3.0	-4.7	-2.7	-0.8	-1.0	-0.4
F034-F673	-7.9	-4.4	5.8	-3.0	-1.6	1.2
F050-F301	-0.2	0.2	0.1	-0.1	0.1	0.0
F050-F302	-0.0	0.3	0.9	-0.0	0.1	0.2
F050-F303	0.3	-0.5	-1.2	0.1	-0.2	-0.3
F052-F303	0.1	-0.2	0.1	0.0	-0.1	0.0
F052-F304	-0.2	0.2	0.2	-0.1	0.1	0.0

F052-F305	0.1	0.0	-0.3	0.0	0.0	-0.1
F052-F306	-0.1	0.1	0.3	-0.0	0.1	0.0
F052-F307	-1.1	0.2	1.9	-0.3	0.1	0.2
F052-F308	0.8	-0.2	-1.7	0.2	-0.1	-0.2
F056-F057	5.1	-20.7	-9.7	0.1	-0.1	-0.1
F056-F058	0.2	0.1	0.1	0.0	0.0	0.0
F056-F317	-0.7	-0.5	-0.3	-0.2	-0.2	-0.0
F056-F318	0.3	-0.2	-0.8	0.1	-0.1	-0.1
F056-F319	-0.3	0.3	0.1	-0.1	0.1	0.0
F056-F320	1.9	0.3	0.5	0.4	0.1	0.1
F056-F321	-0.7	0.3	-0.2	-0.1	0.0	-0.0
F056-F322	5.8	-4.1	-16.8	0.2	-0.2	-0.2
F057-F058	1.8	-10.3	-4.1	0.0	-0.1	-0.0
F058-F321	0.1	0.1	0.6	0.0	0.0	0.0
F058-F322	-4.9	1.8	9.8	-0.2	0.1	0.1
F059-F060	-0.6	-0.3	-0.3	-0.2	-0.1	-0.0
F059-F323	0.1	-0.6	0.3	0.0	-0.1	0.0
F059-F324	0.3	-0.4	-0.0	0.1	-0.1	-0.0
F059-F325	-0.4	0.7	0.1	-0.1	0.2	0.0
F059-F326	-0.7	-0.1	0.5	-0.2	-0.0	0.1
F059-F327	0.2	0.0	0.7	0.1	0.0	0.1
F059-F328	-0.8	0.2	-0.9	-0.2	0.1	-0.1
F059-F901	2.0	-0.3	-0.1	0.3	-0.0	-0.0
F060-F061	-0.7	0.6	0.5	-0.2	0.2	0.1
F060-F326	1.1	-0.0	-1.9	0.3	-0.0	-0.3
F060-F327	-0.1	0.1	0.0	-0.0	0.0	0.0
F060-F328	0.2	-0.1	-0.0	0.1	-0.0	-0.0
F060-F329	0.3	-0.3	-0.3	0.1	-0.1	-0.1
F060-F330	-0.5	0.1	0.5	-0.2	0.0	0.1
F060-F331	-1.4	0.5	-0.8	-0.4	0.1	-0.1
F061-F062	-1.8	0.2	-1.4	-0.4	0.1	-0.2
F061-F329	0.8	0.0	-0.4	0.2	0.0	-0.1
F061-F330	1.0	-0.5	0.4	0.3	-0.2	0.1
F061-F331	-0.1	0.3	-0.1	-0.0	0.1	-0.0
F061-F332	-1.2	-0.1	1.8	-0.3	-0.0	0.2
F061-F333	-0.2	-0.0	1.3	-0.0	-0.0	0.1
F061-F334	-0.1	-0.5	2.1	-0.0	-0.2	0.2
F062-F332	0.4	-0.0	-0.3	0.1	-0.0	-0.0
F062-F333	0.8	-0.2	-2.5	0.2	-0.1	-0.3
F062-F334	0.1	0.2	-0.2	0.0	0.1	-0.0
F062-F336	-0.5	-0.2	0.3	-0.1	-0.0	0.0
F062-F337	-0.3	0.4	1.2	-0.1	0.1	0.1
F062-F338	-0.9	1.1	1.3	-0.2	0.2	0.1
F062-F339	-1.2	0.9	-0.5	-0.2	0.2	-0.0
F064-F335	0.4	-0.4	-0.4	0.0	-0.1	-0.0
F064-F343	0.2	-1.0	1.1	0.0	-0.3	0.1
F064-F344	-1.0	1.0	-4.0	-0.2	0.2	-0.4
F064-F902	-0.6	0.5	3.0	-0.1	0.1	0.2

F066-F067	-3.0	1.4	-1.5	-0.4	0.2	-0.1
F066-F348	0.3	-0.3	0.3	0.1	-0.1	0.0
F066-F349	0.7	0.1	-1.1	0.2	0.0	-0.2
F066-F350	0.2	-0.2	-0.6	0.1	-0.1	-0.1
F066-F351	0.1	0.2	0.2	0.0	0.1	0.0
F067-G003	38.4	-39.4	11.8	53568.2	-54969.1	16477.3
F067-G001	22.7	-32.7	17.0	1.7	-2.7	0.5
F067-F068	1.3	-0.3	-3.4	0.5	-0.1	-0.9
F067-F068	4.2	3.2	2.3	1.8	1.7	0.6
F067-F069	2.2	0.5	-0.9	0.9	0.2	-0.2
F067-F072	10.6	2.3	6.5	4.2	0.9	1.3
F067-F072	16.1	2.9	-8.9	6.4	1.2	-1.8
F067-F075	12.5	4.5	4.5	4.9	1.6	0.9
F067-F662	14.1	3.8	-9.3	3.7	0.8	-1.5
F067-F301	28.6	-36.9	-6.8	3.2	-4.0	-0.3
F068-F069	0.6	0.0	1.7	0.2	0.0	0.3
F068-F072	8.4	1.0	7.3	2.8	0.4	1.4
F068-F072	11.3	-0.6	-6.6	3.8	-0.2	-1.3
F068-F662	10.0	0.0	-7.9	2.5	0.0	-1.2
F069-F072	7.8	1.2	6.5	2.4	0.4	1.1
F072-F073	-0.5	4.4	0.7	-0.5	2.9	0.3
F072-F073	1.1	-2.9	1.8	1.2	-1.9	0.8
F072-F075	2.7	0.2	1.5	1.7	0.1	0.5
F072-F075	1.1	-2.8	-1.2	0.7	-1.3	-0.3
F072-F076	-0.7	3.5	1.6	-0.4	1.5	0.4
F072-F662	-0.2	0.2	0.9	-0.1	0.0	0.2
F072-F662	-0.6	-1.4	2.2	-0.2	-0.3	0.4
F072-F673	1.4	-1.7	-3.5	0.9	-0.8	-1.1
F073-F075	4.1	-5.1	-0.7	2.5	-2.2	-0.2
F073-F075	1.7	0.9	-8.2	1.0	0.4	-2.5
F073-F076	-0.6	-0.9	1.7	-0.3	-0.4	0.4
F073-F662	-1.9	1.5	0.3	-0.6	0.3	0.1
F073-F673	1.3	1.8	-7.9	0.8	0.8	-2.4
F075-F076	-3.2	3.4	0.8	-1.9	1.9	0.2
F075-F076	5.4	-0.7	-1.0	3.2	-0.4	-0.3
F075-F077	7.5	-0.8	-3.9	3.4	-0.3	-0.9
F075-F077	-5.8	2.8	-11.7	-2.6	1.2	-2.9
F075-F078	6.8	0.5	0.9	2.6	0.2	0.2
F075-F081	-6.0	10.1	-24.6	-1.9	2.8	-4.1
F075-F384	-0.1	3.0	-13.1	-0.0	0.6	-2.1
F075-F662	-2.5	0.4	8.4	-0.7	0.1	1.4
F075-F673	-0.6	1.0	0.3	-1.0	2.0	0.5
F075-F673	1.3	-2.4	-1.9	2.5	-4.6	-3.3
F076-F077	2.5	0.0	-1.7	1.1	0.0	-0.4
F076-F078	1.3	1.0	0.9	0.5	0.4	0.2
F077-F078	-0.4	0.8	4.6	-0.2	0.3	1.0
F077-F078	-1.8	-1.4	-7.9	-0.7	-0.6	-1.7
F077-F081	8.1	-3.0	-1.2	2.4	-0.8	-0.2

F077-F081	7.2	7.5	-5.1	2.2	1.9	-0.8
F077-F384	10.4	-0.2	3.2	2.1	-0.0	0.5
F077-F673	7.4	-5.2	7.6	3.3	-2.1	1.8
F078-F081	10.0	-0.2	9.1	2.8	-0.1	1.4
F081-F082	1.5	0.6	-7.9	0.5	0.1	-1.4
F081-F083	-1.6	2.1	0.1	-0.5	0.5	0.0
F081-F384	3.4	-7.6	8.1	0.7	-1.5	1.3
F081-F694	1.2	1.3	-8.8	0.4	0.3	-1.5
F081-F673	5.5	-12.1	16.6	1.7	-3.3	2.8
F082-F083	0.6	-0.2	-2.3	0.2	-0.1	-0.5
F082-F085	0.2	1.0	-9.3	0.0	0.2	-1.3
F082-F694	-0.3	0.8	-0.6	-0.2	0.5	-0.2
F082-F694	0.1	-0.5	0.0	0.1	-0.4	0.0
F083-F703	-1.1	1.4	-11.5	-0.3	0.3	-1.7
F083-F085	-0.7	0.7	-7.4	-0.2	0.2	-1.2
F083-F085	-0.7	2.2	-9.3	-0.2	0.5	-1.4
F083-F086	-1.4	3.6	-14.2	-0.4	0.8	-2.0
F083-F694	-0.3	-0.3	2.5	-0.1	-0.1	0.6
F085-F086	-0.8	0.3	-5.6	-0.3	0.1	-1.1
F085-F694	0.1	-1.5	9.8	0.0	-0.3	1.4
F085-F703	-0.1	0.4	-1.9	-0.0	0.1	-0.4
F086-F087	-2.1	-1.7	-6.1	-0.9	-0.5	-1.3
F086-F087	6.6	1.4	4.3	2.9	0.4	1.0
F086-F088	-0.8	-5.3	-4.7	-0.3	-1.4	-0.9
F086-F088	4.5	8.1	-3.5	1.7	2.1	-0.6
F086-F703	0.7	-0.3	3.5	0.3	-0.1	0.9
F086-F703	1.0	0.1	2.1	0.5	0.0	0.5
F087-F088	1.3	-3.9	0.8	0.6	-1.4	0.2
F087-F088	4.3	-1.3	-7.6	2.1	-0.4	-1.8
F087-F088	-2.5	6.9	-8.1	-1.2	2.4	-1.9
F087-F088	-6.9	5.1	-6.0	-3.4	1.8	-1.4
F087-F092	3.7	-0.7	-13.7	1.1	-0.2	-1.9
F087-F094	4.2	1.9	-14.4	1.2	0.4	-1.9
F087-F101	1.0	-0.6	-21.9	0.3	-0.1	-2.9
F087-F703	-5.6	-1.2	-2.6	-2.0	-0.3	-0.5
F087-F718	-5.4	4.1	-6.9	-1.1	0.6	-0.7
F087-F728	0.0	9.0	-9.8	0.0	0.8	-0.7
F088-F092	0.5	-0.1	-7.1	0.2	-0.0	-1.0
F088-F094	0.6	0.5	-8.2	0.2	0.1	-1.1
F088-F703	-3.1	-8.1	5.6	-1.0	-1.9	0.9
F088-F718	2.8	-0.3	-0.6	0.6	-0.1	-0.1
F088-F728	7.8	4.5	-2.2	1.1	0.4	-0.2
F092-F094	0.0	1.0	-0.9	0.0	0.3	-0.2
F092-F094	1.5	-1.4	-6.4	0.5	-0.4	-1.1
F092-F096	-1.0	1.7	-5.3	-0.3	0.5	-0.8
F092-F097	-3.5	3.1	-13.0	-1.0	0.8	-2.0
F094-F096	-0.3	-0.2	-4.2	-0.1	-0.1	-0.7
F094-F097	-2.5	1.5	-7.4	-0.7	0.5	-1.2

F096-F097	1.7	-1.1	-2.1	0.9	-0.6	-0.6
F096-F097	-2.9	1.2	-7.8	-1.5	0.7	-2.2
F096-F098	0.7	-2.5	3.3	0.3	-1.2	0.8
F096-F099	-0.4	2.1	2.5	-0.2	0.8	0.5
F097-F098	-1.1	-1.4	4.3	-0.8	-0.8	1.5
F097-F098	1.0	3.5	-6.0	0.7	2.1	-2.1
F097-F099	-3.4	3.9	1.1	-1.7	1.7	0.3
F097-F100	2.2	-4.8	-7.7	0.9	-1.8	-1.7
F097-F718	-8.2	-6.2	30.5	-1.5	-0.8	2.8
F097-F728	-3.9	-6.8	6.7	-0.5	-0.6	0.5
F097-F101	2.5	7.3	-9.7	0.9	2.5	-1.9
F098-F099	1.1	-2.2	-1.2	0.6	-1.2	-0.3
F098-F099	-1.6	4.1	-5.5	-0.9	2.2	-1.6
F098-F100	-0.0	0.0	-1.7	-0.0	0.0	-0.4
F098-F100	1.2	-8.2	-1.6	0.6	-3.5	-0.4
F098-F101	1.7	-0.3	-4.0	0.7	-0.1	-0.9
F098-F101	1.5	3.9	-3.4	0.6	1.5	-0.7
F099-F100	-0.5	1.2	0.1	-0.2	0.6	0.0
F099-F101	-0.1	1.4	-3.3	-0.0	0.5	-0.7
F100-F101	1.5	0.8	-4.0	0.6	0.3	-0.9
F100-F101	0.7	-6.4	1.3	0.3	-2.6	0.3
F100-F102	0.3	-3.5	-1.3	0.0	-0.3	-0.0
F101-F114	9.8	8.6	11.4	1.8	1.4	0.7
F101-F458	6.4	5.3	10.1	1.5	1.1	0.7
F101-F102	-0.2	3.4	-0.7	-0.0	0.3	-0.0
F101-F120	22.6	38.5	35.2	31502.5	53683.3	49071.3
F111-F458	0.0	0.0	0.0	0.0	0.0	0.0
F114-F458	-3.2	-3.8	-3.4	-0.6	-0.6	-0.2
F114-F120	12.8	29.7	23.5	2.4	4.7	1.4
F120-F121	-2.5	-0.3	0.2	-0.5	-0.1	0.0
F120-F129	-1.2	1.4	-5.8	-0.2	0.3	-0.7
F120-F458	-19.5	-32.0	-17.8	-4.6	-6.7	-1.2
F120-F123	0.1	-0.4	-0.7	0.0	-0.1	-0.1
F121-F124	-1.5	-0.4	-1.5	-0.4	-0.1	-0.2
F121-F123	2.3	0.7	1.6	0.7	0.3	0.3
F121-F123	-2.6	-0.5	-1.1	-0.8	-0.2	-0.2
F123-F125	4.1	-0.9	-12.4	0.8	-0.2	-1.2
F123-F124	1.0	-0.6	0.6	0.3	-0.2	0.1
F123-F124	-1.5	2.7	-0.2	-0.4	0.8	-0.0
F124-F125	7.6	-3.2	-15.9	1.5	-0.7	-1.6
F124-F125	-0.0	2.1	-5.5	-0.0	0.4	-0.5
F124-F128	-5.6	3.1	4.6	-1.0	0.6	0.5
F125-F128	3.6	2.5	-6.8	0.8	0.6	-0.8
F125-F128	-2.9	-7.8	-2.2	-0.6	-1.9	-0.3
F125-F129	-2.4	-7.8	-0.8	-0.5	-1.7	-0.1
F128-F129	1.2	0.1	-0.1	0.5	0.0	-0.0
F128-F129	-5.4	-0.7	-1.4	-2.3	-0.3	-0.3
F128-F130	-2.0	-0.5	1.4	-0.3	-0.1	0.2

F129-F130	3.7	0.6	2.7	0.7	0.2	0.3
F129-F130	-2.1	-1.9	-4.1	-0.4	-0.6	-0.5
F129-F138	-3.2	3.1	-1.5	-0.6	0.6	-0.2
F130-F131	1.1	-0.0	-2.7	0.1	-0.0	-0.2
F131-F133	-10.9	4.8	-3.8	-3.7	1.8	-0.6
F131-F133	0.9	-1.8	3.1	0.3	-0.7	0.5
F131-F134	-2.9	2.5	-12.3	-0.8	0.9	-1.8
F133-F134	-3.3	4.5	-14.5	-1.2	1.8	-2.6
F133-F134	8.4	1.4	9.3	3.0	0.6	1.7
F133-F134	3.3	-3.2	6.7	1.2	-1.3	1.2
F133-F136	-7.5	-3.8	-0.1	-2.5	-1.5	-0.0
F133-F136	-0.8	2.0	-3.7	-0.3	0.8	-0.6
F134-F136	-5.5	-2.5	-7.9	-2.0	-0.9	-1.4
F134-F136	7.5	2.2	-2.8	2.7	0.8	-0.5
F134-F136	-4.1	5.4	-10.1	-1.5	1.9	-1.8
F134-F137	6.2	1.9	-1.0	1.6	0.4	-0.1
F136-F137	-1.0	-0.8	-0.7	-0.3	-0.2	-0.1
F136-F138	0.3	-0.2	0.7	0.1	-0.1	0.1
F137-F138	1.1	0.1	-5.2	0.3	0.0	-0.5
F138-F139	0.0	0.0	0.0	0.0	0.0	0.0
F301-G003	18.1	11.4	8.3	2.0	1.3	0.3
F301-G003	10.1	-3.1	8.8	1.1	-0.3	0.4
F301-G013	0.2	-11.6	8.8	0.0	-0.9	0.3
F301-G141	-14.5	-37.3	-4.8	-1.6	-4.1	-0.2
F301-G001	-7.5	5.1	21.1	-0.5	0.4	0.5
F301-F302	-0.1	0.1	-0.3	-0.0	0.1	-0.1
F301-F303	-0.1	0.0	0.6	-0.1	0.0	0.1
F301-F901	-39.9	26.5	28.0	-2.6	1.7	0.8
F302-F303	-0.1	0.5	0.5	-0.1	0.2	0.1
F303-F304	0.1	-0.1	-0.0	0.0	-0.1	-0.0
F303-F305	-0.0	-0.1	0.2	-0.0	-0.0	0.0
F304-F305	-0.1	0.0	0.3	-0.0	0.0	0.1
F306-F307	0.3	-0.0	-0.5	0.1	-0.0	-0.0
F306-F308	-1.1	0.3	2.1	-0.3	0.1	0.2
F307-F308	-1.0	0.4	2.0	-0.2	0.1	0.2
F308-F309	-0.1	0.0	-0.3	-0.0	0.0	-0.0
F308-F310	-0.8	1.1	1.2	-0.2	0.2	0.1
F308-F900	0.8	-1.0	0.2	0.2	-0.2	0.0
F309-F310	0.5	-0.4	-1.3	0.1	-0.1	-0.2
F309-F900	-0.6	0.3	0.5	-0.1	0.1	0.1
F310-F311	-0.1	0.0	0.2	-0.0	0.0	0.0
F310-F312	0.0	-0.1	-0.2	0.0	-0.0	-0.0
F310-F313	0.3	-0.1	0.0	0.1	-0.0	0.0
F310-F314	-0.3	0.2	-0.4	-0.1	0.1	-0.0
F310-F900	0.9	-0.8	-2.3	0.2	-0.2	-0.3
F311-F312	0.1	0.1	-0.1	0.0	0.0	-0.0
F311-F313	-0.4	-0.0	1.1	-0.1	-0.0	0.1
F311-F314	0.1	-0.3	-1.0	0.0	-0.1	-0.1

F312-F313	-0.0	0.0	0.1	-0.0	0.0	0.0
F312-F314	0.2	0.2	-0.3	0.1	0.0	-0.0
F313-F314	-0.1	0.0	1.4	-0.0	0.0	0.1
F314-F315	0.0	-0.2	-0.7	0.0	-0.1	-0.1
F314-F316	-0.2	0.4	0.6	-0.0	0.1	0.1
F314-F317	0.2	-0.3	-0.0	0.1	-0.1	-0.0
F315-F316	0.1	0.4	-0.8	0.0	0.1	-0.1
F315-F317	-0.2	-0.4	0.1	-0.1	-0.2	0.0
F316-F317	0.0	0.7	-0.4	0.0	0.2	-0.1
F317-F318	-0.1	0.0	0.1	-0.0	0.0	0.0
F317-F319	-0.3	-0.5	-0.0	-0.1	-0.2	-0.0
F317-F320	-2.9	-0.8	0.8	-0.6	-0.3	0.1
F318-F319	0.2	0.1	-0.2	0.1	0.0	-0.0
F318-F320	-0.8	-0.3	0.1	-0.2	-0.1	0.0
F319-F320	-0.2	0.2	-0.8	-0.0	0.0	-0.1
F321-F322	-1.0	4.2	11.9	-0.0	0.2	0.1
F323-F324	0.0	0.1	-0.2	0.0	0.0	-0.0
F323-F325	0.0	-0.9	0.7	0.0	-0.2	0.1
F324-F325	0.4	-0.3	-0.1	0.1	-0.1	-0.0
F326-F327	-0.3	-0.1	0.4	-0.1	-0.1	0.1
F326-F328	-0.4	0.1	-0.4	-0.1	0.0	-0.1
F327-F328	-0.1	-0.0	0.6	-0.0	-0.0	0.1
F329-F330	1.1	0.0	0.2	0.4	0.0	0.0
F329-F331	-0.4	-0.2	-0.3	-0.1	-0.1	-0.0
F330-F331	1.4	-0.9	0.7	0.4	-0.3	0.1
F332-F333	-0.4	-0.0	0.7	-0.1	-0.0	0.1
F332-F334	-0.4	-0.2	0.8	-0.1	-0.1	0.1
F333-F334	0.0	-0.1	-0.3	0.0	-0.0	-0.0
F335-F343	-0.5	-1.2	2.8	-0.1	-0.2	0.2
F335-F344	0.2	2.2	2.1	0.0	0.3	0.1
F335-F902	0.2	-0.2	-2.2	0.0	-0.0	-0.1
F336-F337	0.3	-0.6	-1.1	0.1	-0.1	-0.1
F336-F338	0.2	-0.6	-1.2	0.1	-0.1	-0.1
F336-F339	-1.7	1.0	1.2	-0.3	0.2	0.1
F337-F338	-0.0	0.1	0.2	-0.0	0.0	0.0
F337-F339	-0.3	-0.3	0.2	-0.1	-0.1	0.0
F338-F339	-0.8	0.4	-0.8	-0.2	0.1	-0.1
F339-F340	-2.1	-1.9	4.2	-0.5	-0.5	0.4
F339-F341	-0.3	0.2	1.0	-0.1	0.1	0.1
F339-F342	-0.6	0.1	0.4	-0.2	0.0	0.0
F339-F343	-0.0	0.5	-0.4	-0.0	0.1	-0.0
F340-F341	-0.2	0.2	-1.1	-0.0	0.1	-0.1
F340-F342	-0.1	-0.3	0.4	-0.0	-0.1	0.1
F340-F343	-0.9	-0.2	2.7	-0.2	-0.0	0.2
F341-F342	-0.1	0.4	-0.2	-0.0	0.1	-0.0
F341-F343	-0.5	0.4	1.2	-0.1	0.1	0.1
F342-F343	-0.8	-0.3	1.4	-0.2	-0.1	0.1
F343-F344	-0.7	2.3	-4.9	-0.2	0.8	-0.7

F343-F344	0.3	-1.8	4.5	0.1	-0.6	0.6
F343-F902	-0.2	1.8	-0.8	-0.0	0.4	-0.1
F343-F903	0.5	-0.9	1.2	0.1	-0.2	0.1
F344-F345	-0.1	0.2	1.4	-0.0	0.0	0.1
F344-F346	-0.6	0.2	0.0	-0.2	0.1	0.0
F344-F347	-0.2	0.0	-0.7	-0.0	0.0	-0.1
F344-F348	-0.8	0.5	2.4	-0.2	0.1	0.2
F344-F902	1.9	-1.8	-2.0	0.3	-0.4	-0.2
F344-F903	-1.0	1.0	-3.1	-0.2	0.3	-0.3
F345-F346	0.0	-0.0	1.5	0.0	-0.0	0.1
F345-F347	0.0	0.1	-0.7	0.0	0.0	-0.1
F345-F348	0.1	-0.1	-0.9	0.0	-0.0	-0.1
F346-F347	0.0	0.1	0.6	0.0	0.0	0.1
F346-F348	-0.3	-0.2	-0.4	-0.1	-0.0	-0.0
F347-F348	-0.2	0.3	0.5	-0.1	0.1	0.0
F348-F349	-0.5	0.1	0.6	-0.1	0.0	0.1
F348-F350	-0.9	-0.0	2.0	-0.2	-0.0	0.3
F348-F351	-0.9	-0.2	-1.1	-0.2	-0.0	-0.1
F349-F350	0.1	0.2	0.1	0.0	0.1	0.0
F349-F351	-0.0	-0.3	0.0	-0.0	-0.1	0.0
F350-F351	0.2	-0.1	-0.1	0.0	-0.0	-0.0
F384-F673	-0.6	-5.3	5.7	-0.1	-1.0	0.9
F662-F673	2.5	0.4	-8.5	0.7	0.1	-1.4
F718-F728	2.6	2.4	-2.9	0.3	0.2	-0.2
G001-G003	-21.4	-10.3	-54.4	-1.6	-0.9	-1.7
G001-G003	15.1	-5.8	-2.0	1.1	-0.5	-0.1
G003-G013	-17.9	-24.7	-0.3	-2.0	-2.3	-0.0
G013-G141	-13.9	-27.5	5.4	-1.6	-2.6	0.2

Baselines which were rejected by the statistical test are marked.

5. Adjusted Points in NAD83 (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
F001	529176.716	-5507499.273	3162330.730	0.0	0.0	0.0
F002	539306.736	-5506174.111	3162925.558	4.7	11.4	7.9
F004	549797.824	-5497609.408	3175900.408	13.9	34.1	15.8
F005	528292.288	-5507266.370	3162896.695	12.8	26.0	18.1
F006	511983.203	-5513053.036	3155526.964	5.2	10.7	6.5
F007	507613.116	-5515962.485	3151180.828	0.0	0.0	0.0
F008	499048.247	-5517721.173	3149478.707	8.1	14.2	7.1
F009	485891.846	-5522028.601	3144011.233	6.5	13.2	7.8
F010	483895.793	-5522251.789	3143934.469	7.3	13.9	8.9
F029	521417.029	-5510161.358	3159004.614	5.6	11.1	6.2
F030	538204.663	-5507334.050	3161101.218	13.8	26.9	17.2
F031	543021.943	-5507317.608	3160313.508	10.4	16.9	10.8
F032	545675.024	-5504503.857	3164727.353	39.4	71.0	54.1

F033	493918.547	-5521290.056	3144054.092	9.2	14.8	6.9
F034	497803.987	-5524165.111	3138428.371	0.0	0.0	0.0
F050	474390.114	-5528590.569	3134287.091	9.9	20.3	15.4
F052	475351.151	-5528931.015	3133551.443	10.1	21.0	15.7
F056	478480.864	-5529851.174	3131458.963	13.2	28.7	19.4
F057	478803.446	-5530006.550	3131138.228	215.5	181.9	38.1
F058	478994.655	-5530122.828	3130902.847	18.1	44.3	23.0
F059	480110.211	-5530053.659	3130858.659	13.0	25.8	17.7
F060	481042.030	-5529822.487	3131126.637	12.6	25.3	17.2
F061	481836.881	-5529610.273	3131370.640	12.3	24.8	16.7
F062	482697.928	-5529391.645	3131621.135	12.0	23.6	16.3
F064	484649.884	-5528874.665	3132227.409	10.1	19.7	14.3
F066	487392.900	-5528116.928	3133137.610	6.5	9.2	11.0
F067	487794.359	-5528000.009	3133280.639	0.0	0.0	0.0
F068	488713.118	-5527680.722	3133695.262	1.9	3.3	3.0
F069	489208.078	-5527499.514	3133937.627	2.2	4.4	3.7
F072	492002.033	-5526354.427	3135515.227	2.5	4.2	3.4
F073	492283.361	-5526256.990	3135641.199	2.8	4.4	3.5
F075	493693.210	-5525622.103	3136525.727	2.8	4.3	3.3
F076	493930.079	-5525485.480	3136726.035	3.1	5.1	3.5
F077	494614.675	-5525201.280	3137115.947	3.3	4.9	3.7
F078	495256.144	-5524992.440	3137381.229	3.4	5.7	4.0
F081	498214.825	-5524051.452	3138561.555	3.1	4.7	3.8
F082	499290.404	-5523770.108	3138884.274	4.5	6.0	5.1
F083	500133.511	-5523573.452	3139094.713	4.4	6.1	5.0
F085	501855.970	-5523115.961	3139618.714	5.1	6.7	5.5
F086	502899.288	-5522817.449	3139973.302	4.9	6.6	5.0
F087	503953.056	-5522453.150	3140445.903	4.5	6.6	4.8
F088	505236.685	-5521960.564	3141100.830	4.8	6.9	4.9
F092	507359.863	-5520709.157	3142945.959	4.3	6.6	5.0
F094	509016.315	-5519728.463	3144388.562	4.0	6.3	5.0
F096	509974.691	-5519159.032	3145227.393	3.2	5.1	3.8
F097	510521.039	-5518781.377	3145800.217	3.0	4.6	3.4
F098	510854.410	-5518538.633	3146169.461	2.7	4.3	3.0
F099	511429.361	-5518146.128	3146757.901	2.7	4.6	3.0
F100	511925.475	-5517854.071	3147187.841	2.5	4.4	2.9
F101	512169.974	-5517342.899	3148036.588	0.0	0.0	0.0
F102	514400.431	-5516237.764	3149597.721	11.6	29.8	22.8
F111	520926.508	-5514804.145	3151025.994	28.0	65.8	53.9
F114	522981.610	-5514176.372	3151783.679	7.1	15.1	7.4
F120	539217.693	-5507260.986	3161056.162	0.0	0.0	0.0
F121	539696.581	-5507302.530	3160904.511	3.1	6.8	4.9
F123	540273.936	-5507344.161	3160737.776	3.3	6.3	4.2
F124	541635.819	-5507437.469	3160344.062	4.3	7.9	5.5
F125	542101.170	-5507412.367	3160306.752	5.3	10.6	6.2
F128	543362.310	-5507227.842	3160410.915	5.1	8.6	6.2
F129	544146.996	-5507057.994	3160572.205	5.0	8.2	6.1
F130	544924.827	-5506991.970	3160551.077	5.5	9.5	9.0

F131	545283.171	-5506891.159	3160664.534	4.8	8.9	6.8
F133	545647.610	-5506616.586	3161077.180	4.5	8.1	6.1
F134	545796.566	-5506365.588	3161484.950	4.5	8.1	5.9
F136	546058.312	-5505116.142	3163604.595	3.8	6.7	4.9
F137	545897.420	-5504845.636	3164099.470	4.2	9.1	5.2
F138	545693.773	-5504496.229	3164734.492	0.0	0.0	0.0
F139	545430.227	-5504232.543	3165234.020	8.4	12.2	4.8
F301	474361.342	-5528657.786	3134172.695	9.5	19.9	15.2
F302	474524.125	-5528757.671	3133971.691	10.0	20.4	15.4
F303	474793.550	-5528816.827	3133830.370	10.0	20.4	15.5
F304	475034.607	-5528870.074	3133697.936	10.1	20.9	15.7
F305	475329.299	-5528926.497	3133559.531	10.1	21.1	15.7
F306	475532.367	-5529010.205	3133378.462	10.3	22.3	15.9
F307	475866.965	-5529037.031	3133282.841	10.7	24.0	16.2
F308	476100.931	-5529122.983	3133093.995	10.5	23.4	16.1
F309	476354.313	-5529175.969	3132964.008	11.4	24.0	17.1
F310	476588.271	-5529264.144	3132773.698	11.7	24.4	17.3
F311	476879.003	-5529328.611	3132618.026	12.2	26.0	17.7
F312	477098.684	-5529417.399	3132429.020	12.2	26.2	17.8
F313	477317.928	-5529499.812	3132251.308	12.3	26.5	17.9
F314	477572.824	-5529572.858	3132083.662	12.5	26.9	18.1
F315	477832.910	-5529645.715	3131919.902	12.9	27.6	18.9
F316	478008.307	-5529759.910	3131690.902	12.9	27.5	18.9
F317	478233.267	-5529844.890	3131508.800	12.9	27.7	19.1
F318	478420.470	-5529944.760	3131302.212	13.1	28.3	19.4
F319	478642.046	-5530044.663	3131094.024	13.2	28.7	19.5
F320	478865.522	-5530161.374	3130854.931	13.3	29.0	19.6
F321	479074.920	-5530192.429	3130769.429	18.6	45.7	23.5
F322	479174.164	-5530192.069	3130755.543	32.6	94.1	36.0
F323	479484.169	-5530184.763	3130722.007	13.7	26.5	18.2
F324	479784.919	-5530132.997	3130768.036	13.5	26.3	18.0
F325	480069.071	-5530066.929	3130841.404	13.6	26.3	18.1
F326	480371.302	-5529999.256	3130913.360	13.0	26.0	17.7
F327	480661.211	-5529929.123	3130991.993	12.9	25.8	17.6
F328	480955.062	-5529852.769	3131084.997	12.8	25.6	17.4
F329	481232.136	-5529771.364	3131184.178	12.7	25.4	17.2
F330	481523.102	-5529695.822	3131269.181	12.6	25.3	17.2
F331	481812.998	-5529621.823	3131354.837	12.5	25.3	17.1
F332	482095.311	-5529547.334	3131442.633	12.3	24.7	16.7
F333	482372.330	-5529468.925	3131540.482	12.3	24.7	16.6
F334	482688.707	-5529406.499	3131598.188	12.2	24.3	16.6
F335	482967.954	-5529332.262	3131683.818	11.0	23.2	15.2
F336	483243.994	-5529256.459	3131775.644	11.9	23.2	16.4
F337	483552.724	-5529183.265	3131855.454	12.1	23.6	16.3
F338	483799.483	-5529127.050	3131920.857	12.0	23.5	16.3
F339	484113.614	-5529033.276	3132032.141	10.6	20.8	14.6
F340	484375.551	-5528952.131	3132134.102	10.5	20.5	14.5
F341	484653.053	-5528882.525	3132213.992	10.5	20.5	14.5

F342	484958.659	-5528798.111	3132314.613	10.5	20.5	14.5
F343	485236.600	-5528714.768	3132417.499	9.7	17.6	13.9
F344	485520.313	-5528638.410	3132508.150	9.3	16.4	13.1
F345	485813.337	-5528568.242	3132585.818	9.5	16.9	13.3
F346	486106.205	-5528496.052	3132668.350	9.1	15.9	13.0
F347	486388.323	-5528411.825	3132771.924	9.0	15.4	12.8
F348	486672.696	-5528327.283	3132876.584	7.9	12.4	11.8
F349	486945.236	-5528243.139	3132981.780	7.5	11.5	11.6
F350	487231.196	-5528170.177	3133065.595	7.2	11.2	11.5
F351	487423.259	-5528088.416	3133186.133	7.5	12.0	11.7
F384	496669.610	-5524594.743	3137854.856	4.9	5.1	4.9
F458	516216.458	-5516219.135	3149333.243	5.2	13.0	7.0
F662	490640.915	-5526929.965	3134710.468	4.9	5.4	5.0
F673	493680.205	-5525678.284	3136428.439	2.9	4.3	3.4
F694	499613.854	-5523782.890	3138812.435	4.5	6.0	5.1
F703	502316.943	-5523065.316	3139635.736	5.0	6.7	5.4
F718	506241.350	-5521439.487	3141847.118	7.6	9.3	8.1
F728	508438.031	-5520073.658	3143879.534	10.9	12.1	11.4
F900	476530.837	-5529096.390	3133074.355	11.6	24.1	17.3
F901	479266.527	-5529468.636	3132007.586	14.0	27.5	19.4
F902	483860.133	-5529018.689	3132094.267	10.4	20.6	14.6
F903	485376.208	-5528572.530	3132643.286	10.0	18.1	15.4
G001	480805.662	-5521915.470	3144988.914	12.6	28.9	19.6
G003	473695.440	-5523450.844	3143382.561	0.0	0.0	0.0
G013	459502.100	-5522961.970	3146324.139	10.6	21.5	16.1
G141	457381.562	-5526807.618	3139915.649	0.0	0.0	0.0

6. Adjusted Points in NAD83 (Geogr. Coordinates and Std.Dev.)

Point	Lat [Deg]	Lon [Deg]	ell.H [m]						
F001	N29° 54' 58.98773"	W84° 30' 42.12338"	-25.259						
F002	N29° 55' 21.25147"	W84° 24' 21.45948"	-23.954						
F004	N30° 03' 27.78490"	W84° 17' 20.49457"	-25.414						
F005	N29° 55' 20.04301"	W84° 31' 14.11507"	-17.163						
F006	N29° 50' 44.10573"	W84° 41' 39.49664"	-22.955						
F007	N29° 48' 01.35632"	W84° 44' 31.54562"	-19.971						
F008	N29° 46' 57.67883"	W84° 49' 55.07668"	-21.058						
F009	N29° 43' 33.21486"	W84° 58' 17.06502"	-24.719						
F010	N29° 43' 30.28121"	W84° 59' 31.77820"	-21.330						
F029	N29° 52' 54.36851"	W84° 35' 39.46695"	-24.438						
F030	N29° 54' 12.93821"	W84° 25' 06.55852"	-26.103						
F031	N29° 53' 43.40749"	W84° 22' 07.79994"	-24.970						
F032	N29° 56' 28.77740"	W84° 20' 19.05057"	-24.204						
F033	N29° 43' 34.84683"	W84° 53' 17.13620"	-26.287						
F034	N29° 40' 04.47256"	W84° 51' 02.74583"	-24.104						
F050	N29° 37' 29.71788"	W85° 05' 44.34448"	-24.218						
F052	N29° 37' 02.18307"	W85° 05' 09.83598"	-21.459						

F056	N29° 35' 44.07216"	W85° 03' 16.88803"	-24.334				
F057	N29° 35' 32.08533"	W85° 03' 05.44316"	-23.937				
F058	N29° 35' 23.31532"	W85° 02' 58.73719"	-25.089				
F059	N29° 35' 21.62688"	W85° 02' 17.21696"	-23.025				
F060	N29° 35' 31.59474"	W85° 01' 41.97721"	-20.811				
F061	N29° 35' 40.77074"	W85° 01' 11.86740"	-24.199				
F062	N29° 35' 50.13835"	W85° 00' 39.28469"	-24.816				
F064	N29° 36' 12.79213"	W84° 59' 25.34550"	-25.245				
F066	N29° 36' 46.75080"	W84° 57' 41.32385"	-22.957				
F067	N29° 36' 52.09233"	W84° 57' 26.07829"	-22.867				
F068	N29° 37' 07.60631"	W84° 56' 51.01712"	-24.184				
F069	N29° 37' 16.64647"	W84° 56' 32.09733"	-23.398				
F072	N29° 38' 15.53092"	W84° 54' 44.87841"	-20.173				
F073	N29° 38' 20.24487"	W84° 54' 34.13938"	-20.542				
F075	N29° 38' 53.35794"	W84° 53' 39.83249"	-23.778				
F076	N29° 39' 00.85922"	W84° 53' 30.60822"	-24.628				
F077	N29° 39' 15.43243"	W84° 53' 04.31316"	-24.715				
F078	N29° 39' 25.34243"	W84° 52' 39.86338"	-24.482				
F081	N29° 40' 09.45775"	W84° 50' 47.14971"	-24.488				
F082	N29° 40' 21.51440"	W84° 50' 06.37111"	-24.161				
F083	N29° 40' 29.38027"	W84° 49' 34.48444"	-24.152				
F085	N29° 40' 48.99049"	W84° 48' 29.14849"	-25.377				
F086	N29° 41' 02.25655"	W84° 47' 49.49795"	-25.956				
F087	N29° 41' 19.88748"	W84° 47' 09.23506"	-23.971				
F088	N29° 41' 44.37730"	W84° 46' 20.01881"	-24.223				
F092	N29° 42' 53.36237"	W84° 44' 57.11185"	-23.904				
F094	N29° 43' 47.32964"	W84° 43' 52.39305"	-24.879				
F096	N29° 44' 18.70001"	W84° 43' 14.93283"	-24.709				
F097	N29° 44' 40.10138"	W84° 42' 53.39292"	-23.382				
F098	N29° 44' 53.91302"	W84° 42' 40.20622"	-23.367				
F099	N29° 45' 15.94885"	W84° 42' 17.55114"	-24.638				
F100	N29° 45' 32.01997"	W84° 41' 58.16063"	-23.948				
F101	N29° 46' 03.79006"	W84° 41' 47.34030"	-24.843				
F102	N29° 47' 02.21163"	W84° 40' 20.85108"	-25.326				
F111	N29° 47' 55.65832"	W84° 36' 13.93747"	-25.172				
F114	N29° 48' 23.97317"	W84° 34' 55.54789"	-22.872				
F120	N29° 54' 11.25034"	W84° 24' 28.71197"	-26.109				
F121	N29° 54' 05.55569"	W84° 24' 11.09756"	-25.398				
F123	N29° 53' 59.27868"	W84° 23' 49.83131"	-23.758				
F124	N29° 53' 44.53571"	W84° 22' 59.65292"	-24.093				
F125	N29° 53' 43.15206"	W84° 22' 42.30002"	-24.844				
F128	N29° 53' 47.05521"	W84° 21' 54.84655"	-24.901				
F129	N29° 53' 53.08425"	W84° 21' 25.11856"	-24.198				
F130	N29° 53' 52.31401"	W84° 20' 56.02495"	-25.336				
F131	N29° 53' 56.56087"	W84° 20' 42.36311"	-25.151				
F133	N29° 54' 12.02016"	W84° 20' 27.83625"	-25.167				
F134	N29° 54' 27.30609"	W84° 20' 21.38813"	-25.647				
F136	N29° 55' 46.69181"	W84° 20' 07.08146"	-23.701				

F137	N29° 56' 05.23910"	W84° 20' 12.05573"	-23.813				
F138	N29° 56' 29.07137"	W84° 20' 18.32677"	-25.615				
F139	N29° 56' 47.80357"	W84° 20' 27.13673"	-26.172				
F301	N29° 37' 25.45255"	W85° 05' 45.62368"	-24.687				
F302	N29° 37' 17.95664"	W85° 05' 39.91241"	-25.430				
F303	N29° 37' 12.65062"	W85° 05' 30.12250"	-24.008				
F304	N29° 37' 07.72882"	W85° 05' 21.36460"	-25.408				
F305	N29° 37' 02.51375"	W85° 05' 10.63085"	-23.003				
F306	N29° 36' 55.78352"	W85° 05' 03.37729"	-24.857				
F307	N29° 36' 52.19439"	W85° 04' 51.07202"	-23.939				
F308	N29° 36' 45.16586"	W85° 04' 42.68203"	-25.361				
F309	N29° 36' 40.29944"	W85° 04' 33.46822"	-24.791				
F310	N29° 36' 33.19375"	W85° 04' 25.08623"	-24.983				
F311	N29° 36' 27.36670"	W85° 04' 14.52662"	-24.340				
F312	N29° 36' 20.30738"	W85° 04' 06.67590"	-24.392				
F313	N29° 36' 13.66933"	W85° 03' 58.82128"	-24.404				
F314	N29° 36' 07.41590"	W85° 03' 49.61694"	-24.879				
F315	N29° 36' 01.26793"	W85° 03' 40.22018"	-23.192				
F316	N29° 35' 52.73375"	W85° 03' 34.09158"	-24.247				
F317	N29° 35' 45.92227"	W85° 03' 26.03475"	-23.719				
F318	N29° 35' 38.23343"	W85° 03' 19.42374"	-25.201				
F319	N29° 35' 30.45121"	W85° 03' 11.54062"	-24.853				
F320	N29° 35' 21.52491"	W85° 03' 03.64134"	-25.044				
F321	N29° 35' 18.32421"	W85° 02' 55.98895"	-24.646				
F322	N29° 35' 17.80040"	W85° 02' 52.31374"	-24.365				
F323	N29° 35' 16.54072"	W85° 02' 40.81398"	-23.976				
F324	N29° 35' 18.25096"	W85° 02' 29.51408"	-23.497				
F325	N29° 35' 20.98462"	W85° 02' 18.78261"	-23.143				
F326	N29° 35' 23.67870"	W85° 02' 07.37650"	-23.503				
F327	N29° 35' 26.61750"	W85° 01' 56.41846"	-23.608				
F328	N29° 35' 30.05580"	W85° 01' 45.29429"	-21.694				
F329	N29° 35' 33.77233"	W85° 01' 34.77477"	-22.354				
F330	N29° 35' 36.97525"	W85° 01' 23.75961"	-23.874				
F331	N29° 35' 40.17315"	W85° 01' 12.78882"	-23.801				
F332	N29° 35' 43.44966"	W85° 01' 02.09704"	-23.652				
F333	N29° 35' 47.07982"	W85° 00' 51.58836"	-22.321				
F334	N29° 35' 49.26582"	W85° 00' 39.67405"	-23.980				
F335	N29° 35' 52.48066"	W85° 00' 29.09601"	-24.870				
F336	N29° 35' 55.89972"	W85° 00' 18.63141"	-24.286				
F337	N29° 35' 58.89188"	W85° 00' 06.96485"	-24.886				
F338	N29° 36' 01.29223"	W84° 59' 57.64737"	-22.576				
F339	N29° 36' 05.49398"	W84° 59' 45.71382"	-25.016				
F340	N29° 36' 09.30343"	W84° 59' 35.75325"	-25.063				
F341	N29° 36' 12.28319"	W84° 59' 25.25370"	-24.825				
F342	N29° 36' 16.04538"	W84° 59' 13.66536"	-25.021				
F343	N29° 36' 19.89297"	W84° 59' 03.10453"	-25.257				
F344	N29° 36' 23.27509"	W84° 58' 52.35251"	-25.034				
F345	N29° 36' 26.17834"	W84° 58' 41.27566"	-25.140				

F346	N29° 36' 29.25121"	W84° 58' 30.19786"	-24.592				
F347	N29° 36' 33.12549"	W84° 58' 19.47865"	-24.876				
F348	N29° 36' 37.03208"	W84° 58' 08.67473"	-24.708				
F349	N29° 36' 40.96386"	W84° 57' 58.30997"	-24.818				
F350	N29° 36' 44.09403"	W84° 57' 47.48457"	-24.772				
F351	N29° 36' 48.53389"	W84° 57' 40.10674"	-21.354				
F384	N29° 39' 43.04406"	W84° 51' 46.19214"	-24.496				
F458	N29° 46' 52.33113"	W84° 39' 13.46850"	-26.192				
F662	N29° 37' 45.54239"	W84° 55' 37.17422"	-24.553				
F673	N29° 38' 49.73153"	W84° 53' 40.49999"	-24.277				
F694	N29° 40' 18.81422"	W84° 49' 54.43380"	-23.356				
F703	N29° 40' 49.61075"	W84° 48' 11.90362"	-24.511				
F718	N29° 42' 12.30589"	W84° 45' 41.03346"	-25.616				
F728	N29° 43' 28.29251"	W84° 44' 14.99883"	-24.878				
F900	N29° 36' 44.44434"	W85° 04' 26.67760"	-26.021				
F901	N29° 36' 04.59123"	W85° 02' 46.57322"	-25.799				
F902	N29° 36' 07.83606"	W84° 59' 55.05093"	-26.180				
F903	N29° 36' 28.34624"	W84° 58' 57.47355"	-26.288				
G001	N29° 44' 09.74575"	W85° 01' 25.23996"	-22.850				
G003	N29° 43' 09.66581"	W85° 05' 53.74748"	-22.644				
G013	N29° 44' 59.71345"	W85° 14' 38.51171"	-24.143				
G141	N29° 41' 00.07872"	W85° 16' 08.96988"	-24.736				

8. Adjusted Points Error Ellipses

Point	A [mm]	B [mm]	Angle [Deg]
F001	0.0	0.0	0.0
F002	5.5	4.8	9.1
F004	16.6	11.5	52.1
F005	12.1	10.5	-87.3
F006	5.1	3.8	-58.9
F007	0.0	0.0	0.0
F008	7.9	5.9	-72.3
F009	6.3	5.5	-72.5
F010	7.4	5.8	-63.4
F029	5.5	4.2	-68.6
F030	13.3	11.8	75.9
F031	10.6	9.8	-75.7
F032	47.6	37.8	14.8
F033	8.9	5.8	-69.4
F034	0.0	0.0	0.0
F050	9.8	9.0	57.0
F052	10.1	9.3	49.5
F056	13.5	12.5	-25.2
F057	219.1	36.5	-65.5
F058	18.3	14.0	-41.8
F059	14.5	10.6	-36.5

F060	14.2	10.1	-37.3
F061	13.8	9.9	-37.3
F062	13.5	9.3	-40.0
F064	12.1	8.5	-30.9
F066	9.1	4.8	-32.7
F067	0.0	0.0	0.0
F068	2.3	1.8	20.1
F069	2.8	2.0	31.1
F072	2.6	2.5	43.8
F073	2.8	2.6	89.3
F075	2.8	2.5	-73.7
F076	3.1	2.8	-63.1
F077	3.3	2.9	-77.8
F078	3.3	3.3	-77.0
F081	3.1	2.7	-75.3
F082	4.5	3.6	-74.5
F083	4.4	3.5	-74.9
F085	5.0	3.9	-85.1
F086	4.8	3.7	-84.7
F087	4.4	3.5	-84.7
F088	4.7	3.7	-83.7
F092	4.3	3.8	67.6
F094	4.2	3.5	51.9
F096	3.2	3.0	80.2
F097	2.9	2.6	70.1
F098	2.7	2.3	57.1
F099	2.8	2.3	52.9
F100	2.8	2.2	40.7
F101	0.0	0.0	0.0
F102	17.2	11.2	-5.6
F111	40.4	25.0	0.4
F114	6.8	4.8	-59.6
F120	0.0	0.0	0.0
F121	4.8	2.8	12.2
F123	4.3	3.1	11.2
F124	5.2	4.0	21.8
F125	6.2	4.9	38.4
F128	5.6	4.7	38.1
F129	5.6	4.5	44.8
F130	7.1	5.5	10.6
F131	5.4	4.8	3.7
F133	4.9	4.5	1.1
F134	4.8	4.6	9.3
F136	4.2	3.7	36.6
F137	4.6	4.1	35.9
F138	0.0	0.0	0.0
F139	8.3	5.1	-62.4
F301	9.6	8.4	51.2

F302	9.9	9.0	55.8
F303	9.9	9.0	56.8
F304	10.1	9.3	50.6
F305	10.1	9.4	48.2
F306	10.3	9.7	39.5
F307	10.5	10.1	26.6
F308	10.5	9.9	33.4
F309	11.4	10.7	-32.2
F310	11.7	10.8	-36.5
F311	12.1	11.3	-38.5
F312	12.2	11.4	-37.8
F313	12.3	11.4	-36.9
F314	12.4	11.6	-38.3
F315	12.9	12.0	-34.9
F316	13.0	12.0	-34.6
F317	13.1	12.1	-32.4
F318	13.4	12.4	-25.7
F319	13.6	12.5	-22.4
F320	13.8	12.7	-18.3
F321	18.8	14.0	-42.4
F322	34.2	20.1	-38.2
F323	15.2	11.1	-38.4
F324	15.1	10.9	-37.9
F325	15.1	11.0	-38.2
F326	14.5	10.7	-36.0
F327	14.4	10.6	-36.1
F328	14.3	10.4	-36.9
F329	14.2	10.2	-37.1
F330	14.2	10.2	-36.9
F331	14.1	10.1	-36.6
F332	13.8	9.8	-37.1
F333	13.8	9.8	-37.5
F334	13.6	9.6	-38.4
F335	13.9	10.4	-15.1
F336	13.5	9.2	-39.2
F337	13.5	9.2	-40.0
F338	13.4	9.2	-39.9
F339	12.1	8.6	-36.4
F340	12.0	8.6	-36.2
F341	12.0	8.5	-36.6
F342	12.0	8.6	-37.0
F343	11.4	7.7	-36.3
F344	10.9	6.9	-39.2
F345	11.1	6.9	-40.3
F346	10.8	6.8	-39.4
F347	10.7	6.7	-39.0
F348	10.0	6.2	-35.1
F349	9.8	5.7	-35.0

F350	9.6	5.5	-33.3
F351	9.9	5.6	-34.2
F384	4.9	4.6	-72.0
F458	4.9	4.1	-62.8
F662	4.9	3.8	-85.4
F673	2.9	2.6	-73.9
F694	4.5	3.6	-74.5
F703	4.9	3.8	-83.6
F718	7.5	5.6	-88.7
F728	10.8	7.6	-88.9
F900	11.8	10.8	-36.0
F901	15.5	11.6	-37.3
F902	12.6	9.1	-27.1
F903	11.9	8.4	-32.9
G001	14.0	11.6	25.3
G003	0.0	0.0	0.0
G013	10.8	8.4	68.5
G141	0.0	0.0	0.0



Network Adjustment

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Statistics

Network Adjustment in NAD83.

Number of baselines	228
Number of terrestrial measurements	0
Geoidmodel	Southeastern US NOAA96
Number of control points in NAD83	10
Number of adjusted points	72
Confidence level	2 Sigmas
Significance level for tau test	1.00 %
Standard error of unit weight	0.531
Number of iterations	1

1. Baselines Input in NAD83 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
B006-B011	-3439.369	771.572	1806.465	41.9	44.1	43.5
B006-G106	4905.646	-2736.931	-5436.262	81.3	84.2	84.5
B006-G322	4879.253	-2744.098	-5446.688	80.6	82.8	82.2
B006-B729	-2743.957	721.015	1626.850	34.9	36.8	36.3
B011-G106	8345.027	-3508.514	-7242.722	121.1	126.0	126.1
B011-G322	8318.639	-3515.677	-7253.152	119.8	123.5	122.6
B011-B729	695.412	-50.556	-179.615	9.4	11.5	11.0
B021-B678	-2807.706	887.911	1882.011	37.1	39.8	39.0
B021-B689	-360.853	22.710	84.376	3.4	3.5	3.7
B021-B024	-1518.178	627.566	1272.842	15.8	15.6	16.2
B021-B201	1030.235	-53.750	-217.411	8.4	8.4	8.8
B024-B026	-1263.568	410.030	863.733	18.3	19.6	19.9
B024-B028	-2450.330	706.236	1518.075	17.6	15.8	16.5
B024-B675	-1883.233	433.898	984.259	24.1	25.2	25.7
B024-B678	-1289.532	260.346	609.174	16.8	18.0	18.4
B024-B678	-1289.531	260.346	609.171	16.4	18.7	18.2
B024-B689	1157.323	-604.856	-1188.460	19.6	21.6	21.3
B024-B201	2548.411	-681.318	-1490.246	32.5	34.6	34.5
B026-B675	-619.665	23.867	120.527	8.3	9.4	9.4

B026-B678	-25.964	-149.685	-254.559	5.1	6.4	6.3
B026-B028	-1186.759	296.200	654.342	16.7	18.4	18.3
B028-B029	-411.723	136.285	284.865	5.3	5.3	5.3
B028-B033	-1489.155	423.984	918.080	13.9	13.8	14.6
B028-B668	-1268.293	222.567	545.954	10.8	10.8	11.2
B028-B675	567.092	-272.336	-533.814	6.8	7.0	7.4
B028-B675	567.092	-272.333	-533.816	10.8	12.2	12.2
B028-B678	1160.794	-445.886	-908.901	18.1	19.8	19.6
B029-B033	-1077.433	287.702	633.211	14.7	15.9	17.1
B029-B668	-856.569	86.284	261.085	10.6	11.6	12.4
B029-B675	978.814	-408.620	-818.682	14.9	15.9	16.9
B033-B039	-2094.849	433.698	1009.929	14.5	14.2	14.7
B033-B043	-5367.692	1231.394	2788.406	44.6	43.8	44.6
B033-B657	-2553.011	493.806	1172.392	30.4	32.1	33.0
B033-B668	220.864	-201.419	-372.126	6.6	7.9	8.7
B033-B668	220.861	-201.417	-372.130	6.5	8.5	9.0
B033-B675	2056.247	-696.322	-1451.893	28.3	29.6	30.9
B039-B043	-3272.844	797.684	1778.477	22.9	22.2	22.8
B039-B657	-458.162	60.102	162.466	3.3	3.4	3.5
B039-B668	2315.710	-635.119	-1382.059	16.6	15.3	16.3
B043-B044	-1099.952	243.447	552.227	10.5	10.5	10.8
B043-B046	-3314.638	748.435	1692.538	22.6	22.4	22.7
B043-B064	-1748.684	322.380	764.648	16.1	16.2	16.4
B043-B657	2814.681	-737.587	-1616.014	26.0	26.1	26.4
B043-B657	2814.682	-737.587	-1616.013	19.9	19.5	19.9
B043-B668	5588.555	-1432.815	-3160.533	47.4	45.5	46.5
B044-B046	-2214.687	504.990	1140.310	21.6	19.7	20.8
B044-B064	-648.733	78.934	212.420	8.7	10.5	10.4
B044-B657	3914.635	-981.035	-2168.240	47.8	49.8	49.8
B046-B064	1565.952	-426.057	-927.885	15.2	11.1	11.6
B046-B064	1565.955	-426.056	-927.890	15.0	13.1	13.7
B046-B049	-3225.429	661.600	1525.254	40.2	45.3	46.7
B046-B609	-6891.567	1310.395	3078.982	80.3	84.8	85.8
B046-B630	-1171.095	235.467	541.062	8.3	6.8	7.0
B046-B657	6129.321	-1486.022	-3308.551	59.8	56.4	58.2
B049-B064	4791.380	-1087.664	-2453.137	64.5	63.5	65.6
B049-W153	-7968.882	1354.819	3273.995	145.8	143.6	140.0
B049-W724	-7726.444	1311.441	3175.614	86.4	87.6	88.3
B049-B053	-4237.020	768.274	1821.093	48.7	50.2	52.1
B049-B609	-3666.140	648.785	1553.736	42.0	43.0	43.6
B049-B609	-3666.137	648.791	1553.729	32.0	32.1	32.5
B049-B630	2054.340	-426.148	-984.189	19.0	19.1	19.3
B053-W153	-3731.865	586.543	1452.898	43.1	44.5	47.1
B053-W724	-3489.424	543.166	1354.519	39.7	41.1	42.9
B053-B609	570.880	-119.490	-267.357	8.4	9.8	11.6
B064-B609	-8457.515	1736.452	4006.867	98.2	99.9	99.9
B064-B630	-2737.045	661.522	1468.946	33.7	34.8	34.8
B064-B657	4563.368	-1059.969	-2380.659	54.9	57.3	57.0

B200-B689	-1167.663	316.144	689.941	18.5	19.4	21.3
B200-B693	-144.885	-96.995	-144.934	3.7	5.0	5.8
B200-B697	819.569	-429.528	-842.282	14.1	15.6	16.6
B200-B201	223.426	239.685	388.155	6.5	7.9	8.8
B201-B678	-3837.942	941.661	2099.420	47.3	50.3	49.5
B201-B689	-1391.088	76.461	301.787	16.2	18.1	17.8
B201-B689	-1391.089	76.460	301.782	16.1	17.7	18.4
B201-B693	-368.311	-336.681	-533.087	8.7	10.0	10.6
B201-B697	596.142	-669.213	-1230.436	16.7	18.1	18.7
B609-W148	-6883.016	1209.498	2894.785	77.9	79.9	80.9
B609-W153	-4302.744	706.036	1720.256	85.1	85.2	95.4
B609-W153	-4302.741	706.042	1720.245	49.2	51.5	52.4
B609-B630	5720.471	-1074.930	-2537.922	65.4	66.7	66.6
B609-W717	-6069.428	951.610	2361.530	67.9	69.8	70.8
B609-W724	-4060.304	662.656	1621.878	46.2	47.4	48.3
B609-W724	-4060.296	662.652	1621.873	46.5	48.6	49.5
B657-B668	2773.873	-695.226	-1544.522	34.1	36.2	36.7
B668-B675	1835.383	-494.904	-1079.767	23.7	24.9	25.9
B675-B678	593.700	-173.552	-375.086	9.2	10.3	10.2
B678-B689	2446.854	-865.200	-1797.633	33.9	36.7	35.9
B689-B693	1022.778	-413.141	-834.869	15.7	17.4	18.1
B689-B697	1987.232	-745.673	-1532.219	28.2	30.0	30.8
B693-B697	964.453	-332.532	-697.350	14.0	15.4	16.0
B729-G322	7623.214	-3465.111	-7073.545	113.5	116.8	116.0
B729-G106	7649.604	-3457.950	-7063.115	114.2	118.4	118.7
G106-G322	-26.391	-7.171	-10.425	3.1	5.7	5.8
K603-O100	-33.672	71.598	121.380	4.7	7.5	7.7
K603-O102	2236.121	107.290	-45.855	17.5	17.3	16.8
K603-K613	3170.945	-32.585	-368.986	34.5	36.7	36.4
K613-O017	-381.926	161.325	304.274	7.2	9.0	8.7
K613-O017	-381.924	161.325	304.272	7.1	8.4	9.3
K613-O018	973.424	196.980	226.492	12.2	13.6	14.5
K613-O100	-3204.617	104.182	490.366	35.8	38.7	38.9
K613-O102	-934.823	139.870	323.135	8.6	8.8	8.4
K613-K616	848.562	72.463	32.515	10.2	11.2	11.9
K616-O017	-1230.486	88.862	271.757	14.5	15.7	16.4
K616-O018	124.862	124.516	193.977	4.4	5.5	6.2
K618-O018	-7756.249	248.599	1217.133	80.7	82.7	82.8
K618-O020	-1990.392	359.860	823.732	10.1	8.8	8.8
K618-O113	2063.194	433.453	524.804	23.6	25.4	25.4
K618-O113	2063.188	433.456	524.803	24.1	27.0	26.6
K618-O116	5273.048	404.178	135.404	55.4	58.5	58.0
K618-O021	-90.312	147.693	258.232	5.2	7.6	7.6
K618-O022	3388.564	401.106	328.791	25.2	23.7	23.8
K628-O116	2164.195	110.077	-40.803	24.8	28.0	27.9
K628-O116	2164.199	110.070	-40.800	24.7	29.6	28.1
K628-O022	279.710	107.012	152.582	2.5	2.4	2.5
K628-O022	279.710	107.018	152.588	11.5	13.1	11.0

K628-O120	5597.852	158.740	-320.050	60.2	66.4	65.1
K628-K646	5697.338	144.475	-356.902	60.2	65.2	63.6
K646-W112	4633.246	-30.468	-538.041	48.9	51.2	53.2
K646-O022	-5417.620	-37.465	509.486	6.7	11.1	7.8
K646-W108	1337.558	6.870	-126.975	11.2	10.8	10.5
K646-O116	-3533.139	-34.408	316.103	37.9	39.6	40.3
K646-O120	-99.498	14.264	36.842	2.6	4.1	5.3
K646-W603	2244.535	-5.528	-245.857	24.3	26.1	26.9
O017-O018	1355.348	35.654	-77.780	15.8	17.3	18.1
O017-O020	7121.198	146.892	-471.167	36.5	35.3	35.3
O017-O100	-2822.693	-57.136	186.088	31.3	33.4	33.6
O017-O102	-552.898	-21.465	18.867	3.7	3.8	3.7
O018-O021	7665.937	-100.915	-958.899	79.7	82.3	82.2
O018-O113	9819.443	184.851	-692.330	100.9	102.6	103.1
O020-O021	1900.076	-212.177	-565.499	10.6	10.3	10.1
O020-O113	4053.585	73.588	-298.925	24.4	23.9	23.9
O021-O113	2153.506	285.761	266.571	24.2	26.8	26.7
O022-O113	-1325.381	32.360	196.008	7.8	7.8	7.8
O022-O116	1884.483	3.077	-193.388	10.0	9.7	9.6
O022-O116	1884.486	3.068	-193.387	3.0	6.7	3.9
O022-O120	5318.117	51.720	-472.626	6.9	9.3	11.6
O100-O102	2269.791	35.682	-167.226	23.6	23.6	23.6
O113-O116	3209.862	-29.276	-389.398	34.4	36.0	35.8
O116-O120	3433.646	48.677	-279.253	38.3	41.0	42.6
O120-W108	1437.052	-7.393	-163.821	20.5	22.4	23.9
O120-W112	4732.744	-44.731	-574.883	50.0	52.2	54.4
O120-W603	2344.034	-19.792	-282.698	25.4	27.2	28.6
W108-W603	906.978	-12.401	-118.884	7.9	7.8	7.7
W108-W112	3295.692	-37.341	-411.060	39.3	41.6	44.8
W112-W114	1768.019	-27.702	-253.123	18.6	18.6	18.6
W112-W603	-2388.722	24.931	292.186	12.5	11.7	11.7
W112-W603	-2388.710	24.940	292.184	26.2	28.2	30.1
W112-W613	1137.921	-46.114	-215.664	7.3	7.0	7.0
W112-W629	6118.505	-132.664	-903.766	62.7	62.8	62.8
W114-W529	4241.714	-196.272	-801.243	46.5	48.6	48.6
W114-W603	-4156.742	52.635	545.311	44.1	45.6	46.3
W114-W613	-630.100	-18.407	37.457	8.6	10.6	11.3
W114-W629	4350.488	-104.960	-650.643	46.4	47.9	48.7
W114-W629	4350.483	-104.963	-650.629	47.3	49.3	49.4
W114-W645	8973.730	-553.180	-1932.337	97.7	102.1	101.4
W122-W127	4247.752	-429.393	-1201.034	46.6	48.4	48.8
W122-W630	-5345.664	1023.633	2344.659	6.0	6.0	6.0
W122-W645	-640.097	20.375	106.415	8.2	9.7	9.9
W122-W660	4263.504	-466.502	-1264.410	46.9	49.1	49.0
W127-W132	4150.621	-407.753	-1178.736	46.0	48.3	49.9
W127-W630	-9593.445	1453.057	3545.683	10.4	10.4	10.4
W127-W660	15.752	-37.106	-63.379	2.7	4.5	4.6
W127-W660	15.750	-37.103	-63.380	4.9	6.5	7.4

W127-W672	3533.347	-361.460	-1026.859	40.1	43.0	44.8
W127-W676	4508.218	-506.636	-1381.389	49.9	52.4	53.8
W127-W645	-4887.850	449.768	1307.448	53.0	55.0	55.4
W132-W135	3065.238	-358.584	-946.865	32.6	32.6	32.6
W132-W660	-4134.869	370.646	1115.357	45.5	48.1	49.1
W132-W672	-617.274	46.293	151.877	8.6	10.7	11.8
W132-W138	5476.944	-580.525	-1609.833	59.5	60.8	61.7
W132-W676	357.597	-98.882	-202.653	6.0	7.7	8.7
W132-W687	3777.979	-474.688	-1232.773	41.8	43.0	43.8
W135-W138	2411.709	-221.941	-662.972	29.5	35.1	35.7
W135-W138	2411.705	-221.943	-662.968	9.8	9.5	9.4
W135-W676	-2707.644	259.704	744.204	31.2	35.0	36.6
W135-W676	-2707.642	259.705	744.201	12.9	12.4	12.4
W135-W687	712.746	-116.098	-285.912	11.4	15.8	16.5
W135-W687	712.744	-116.100	-285.912	3.4	3.3	3.3
W138-W139	922.878	-156.888	-384.949	13.6	15.6	15.0
W138-W140	1513.125	-214.266	-545.825	19.4	21.2	22.2
W138-W140	1513.118	-214.273	-545.823	24.8	29.0	29.5
W138-W676	-5119.349	481.646	1407.170	55.2	56.5	57.3
W138-W687	-1698.965	105.836	377.060	19.5	20.8	21.6
W138-W696	909.840	-189.890	-441.674	13.0	14.7	14.5
W138-W708	4623.549	-698.377	-1734.683	53.3	55.2	55.2
W139-W140	590.247	-57.377	-160.875	9.1	11.2	10.9
W139-W140	590.252	-57.372	-160.881	16.6	26.0	20.8
W139-W696	-13.036	-32.998	-56.724	3.4	5.1	4.5
W139-W708	3700.672	-541.488	-1349.734	43.2	45.2	44.5
W140-W145	3156.675	-450.494	-1131.311	37.8	39.2	39.1
W140-W148	5024.446	-597.823	-1605.887	55.3	57.2	57.3
W140-W696	-603.284	24.375	104.151	8.7	10.1	10.5
W140-W696	-603.288	24.377	104.155	12.2	15.3	16.3
W140-W696	-603.289	24.375	104.151	7.8	9.8	9.6
W140-W708	3110.426	-484.113	-1188.856	37.5	38.9	39.7
W140-W708	3110.422	-484.108	-1188.858	41.5	45.4	46.2
W140-W708	3110.420	-484.109	-1188.852	35.8	37.6	37.6
W145-W148	1867.770	-147.332	-474.576	23.4	25.6	24.3
W145-W696	-3759.966	474.865	1235.461	42.1	45.3	44.5
W145-W708	-46.257	-33.619	-57.542	4.1	6.0	4.9
W148-W153	2580.276	-503.460	-1174.538	30.6	32.5	33.3
W148-W696	-5627.736	622.198	1710.037	61.6	64.9	64.2
W148-W708	-1914.026	113.714	417.034	21.6	23.4	23.4
W148-W717	813.589	-257.888	-533.255	11.4	12.6	13.3
W148-W724	2822.720	-546.847	-1272.911	33.4	35.1	35.9
W153-W717	-1766.688	245.573	641.283	20.9	23.0	23.7
W153-W724	242.442	-43.380	-98.376	33.5	33.5	41.9
W153-W724	242.444	-43.388	-98.372	4.5	6.4	7.0
W529-W629	108.770	91.310	150.614	4.0	5.2	5.1
W529-W630	26.455	646.361	1107.148	8.1	7.4	7.6
W529-W645	4732.017	-356.907	-1131.096	52.6	55.9	55.2

W603-W613	3526.642	-71.046	-507.852	37.5	39.1	39.6
W603-W629	8507.233	-157.595	-1195.955	87.9	89.3	90.0
W613-W629	4980.584	-86.553	-688.099	52.2	53.8	54.3
W629-W630	-82.316	555.052	956.531	6.9	6.6	6.7
W629-W645	4623.246	-448.214	-1281.710	51.6	54.4	53.8
W630-W645	4705.563	-1003.262	-2238.250	31.4	27.9	28.5
W630-W645	4705.563	-1003.262	-2238.250	31.4	27.9	28.5
W630-W645	4705.562	-1003.263	-2238.244	2.7	2.7	2.7
W630-W660	9609.189	-1490.151	-3609.071	4.7	4.6	4.7
W645-W660	4903.601	-486.877	-1370.825	53.6	56.1	55.7
W660-W672	3517.595	-324.353	-963.479	39.5	42.4	43.6
W660-W676	4492.466	-469.530	-1318.008	49.5	52.1	53.1
W672-W676	974.871	-145.176	-354.530	12.6	14.6	15.7
W676-W687	3420.386	-375.809	-1030.110	37.4	38.3	38.9
W696-W708	3713.710	-508.485	-1293.010	42.3	43.9	43.8
W696-W708	3713.709	-508.485	-1293.003	41.6	44.1	43.7
W717-W724	2009.131	-288.959	-739.656	23.7	25.5	26.4

Baselines which were rejected by the statistical test are marked.

2. NAD83 Control Points Input (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
B006	443972.486	-5514144.595	3163857.178	0.0	0.0	0.0
O017	326852.435	-5496436.959	3208315.228	0.0	0.0	0.0
O020	333973.658	-5496290.072	3207844.053	0.0	0.0	0.0
B043	398287.609	-5502341.216	3190202.063	0.0	0.0	0.0
B049	391747.526	-5500931.158	3193419.853	0.0	0.0	0.0
W112	349403.528	-5496241.805	3206301.580	0.0	0.0	0.0
W122	360785.412	-5496843.057	3204009.691	0.0	0.0	0.0
W138	374660.756	-5498260.752	3200020.093	0.0	0.0	0.0
W148	381198.344	-5499072.856	3197868.377	0.0	0.0	0.0
B201	410143.211	-5505384.180	3183487.250	0.0	0.0	0.0

3. Adjusted Baselines in NAD83 (Components and Std.Dev.)

Baseline	DX [m]	DY [m]	DZ [m]	sDX [mm]	sDY [mm]	sDZ [mm]
B006-B011	-3439.370	771.572	1806.465	13.8	14.6	14.4
B006-G106	4905.649	-2736.931	-5436.264	22.7	23.4	23.4
B006-G322	4879.258	-2744.102	-5446.688	22.7	23.4	23.4
B006-B729	-2743.958	721.016	1626.850	13.7	14.4	14.2
B011-G106	8345.018	-3508.504	-7242.729	23.0	23.7	23.7
B011-G322	8318.627	-3515.674	-7253.154	23.0	23.7	23.7
B011-B729	695.412	-50.556	-179.615	4.9	6.0	5.7
B021-B678	-2807.714	887.924	1882.011	5.5	5.7	5.7
B021-B689	-360.853	22.710	84.376	1.7	1.8	1.8

B021-B024	-1518.180	627.574	1272.839	5.0	5.1	5.1
B021-B201	1030.236	-53.753	-217.410	3.1	3.2	3.3
B024-B026	-1263.570	410.036	863.731	4.3	4.6	4.7
B024-B028	-2450.330	706.240	1518.072	4.5	4.5	4.6
B024-B675	-1883.237	433.904	984.257	4.4	4.5	4.6
B024-B678	-1289.534	260.350	609.172	4.1	4.4	4.4
B024-B689	1157.327	-604.864	-1188.463	5.1	5.1	5.2
B024-B201	2548.417	-681.326	-1490.249	5.2	5.3	5.4
B026-B675	-619.667	23.868	120.526	3.0	3.4	3.4
B026-B678	-25.964	-149.686	-254.559	2.4	2.9	2.9
B026-B028	-1186.759	296.204	654.341	3.5	3.8	3.8
B028-B029	-411.723	136.286	284.866	2.5	2.4	2.5
B028-B033	-1489.157	423.990	918.081	3.4	3.6	3.8
B028-B668	-1268.294	222.571	545.953	3.2	3.3	3.5
B028-B675	567.093	-272.336	-533.815	2.5	2.6	2.7
B028-B678	1160.796	-445.890	-908.900	3.5	3.8	3.8
B029-B033	-1077.433	287.704	633.214	3.5	3.7	3.9
B029-B668	-856.571	86.285	261.087	3.4	3.5	3.7
B029-B675	978.816	-408.622	-818.681	3.3	3.3	3.4
B033-B039	-2094.851	433.708	1009.931	4.7	4.6	4.8
B033-B043	-5367.699	1231.408	2788.412	5.6	5.6	5.7
B033-B657	-2553.013	493.810	1172.397	4.8	4.8	4.9
B033-B668	220.863	-201.419	-372.128	2.2	2.6	2.8
B033-B675	2056.250	-696.326	-1451.895	3.9	4.1	4.3
B039-B043	-3272.848	797.700	1778.481	5.3	5.1	5.3
B039-B657	-458.162	60.103	162.466	1.7	1.7	1.8
B039-B668	2315.714	-635.127	-1382.058	4.8	4.7	4.9
B043-B044	-1099.953	243.449	552.229	4.3	4.2	4.3
B043-B046	-3314.641	748.440	1692.539	5.0	4.5	4.6
B043-B064	-1748.687	322.383	764.651	4.5	4.4	4.5
B043-B657	2814.686	-737.597	-1616.015	5.2	5.1	5.2
B043-B668	5588.562	-1432.827	-3160.539	5.5	5.5	5.6
B044-B046	-2214.688	504.992	1140.310	5.0	4.6	4.7
B044-B064	-648.734	78.934	212.422	3.9	4.1	4.1
B044-B657	3914.639	-981.046	-2168.244	6.6	6.4	6.5
B046-B064	1565.955	-426.057	-927.889	4.4	3.7	3.8
B046-B049	-3225.442	661.618	1525.251	5.0	4.5	4.6
B046-B609	-6891.590	1310.410	3078.985	9.1	8.9	9.1
B046-B630	-1171.096	235.468	541.061	4.0	3.4	3.5
B046-B657	6129.327	-1486.038	-3308.554	7.0	6.6	6.7
B049-B064	4791.396	-1087.675	-2453.139	4.5	4.4	4.5
B049-W153	-7968.900	1354.838	3273.986	6.8	7.3	7.6
B049-W724	-7726.457	1311.450	3175.613	6.8	7.3	7.6
B049-B053	-4237.028	768.283	1821.092	8.5	8.7	9.2
B049-B609	-3666.148	648.793	1553.735	7.9	8.0	8.2
B049-B630	2054.345	-426.150	-984.189	5.6	5.1	5.3
B053-W153	-3731.872	586.555	1452.894	8.5	8.9	9.4
B053-W724	-3489.428	543.168	1354.521	8.5	8.9	9.4

B053-B609	570.880	-119.490	-267.357	4.3	5.0	5.8
B064-B609	-8457.544	1736.468	4006.874	8.9	8.9	9.1
B064-B630	-2737.051	661.525	1468.950	5.5	4.7	4.8
B064-B657	4563.373	-1059.980	-2380.665	6.7	6.5	6.6
B200-B689	-1167.663	316.147	689.940	3.6	3.9	4.2
B200-B693	-144.885	-96.995	-144.933	1.8	2.4	2.7
B200-B697	819.569	-429.528	-842.282	4.5	5.0	5.2
B200-B201	223.426	239.685	388.154	2.6	3.1	3.3
B201-B678	-3837.951	941.676	2099.421	5.5	5.7	5.8
B201-B689	-1391.089	76.463	301.786	3.1	3.2	3.3
B201-B693	-368.311	-336.680	-533.087	2.7	3.2	3.5
B201-B697	596.143	-669.212	-1230.436	4.7	5.2	5.4
B609-W148	-6883.034	1209.509	2894.789	7.9	8.0	8.2
B609-W153	-4302.752	706.045	1720.251	8.1	8.4	8.7
B609-B630	5720.493	-1074.943	-2537.924	9.4	9.2	9.4
B609-W717	-6069.443	951.620	2361.534	8.6	8.9	9.2
B609-W724	-4060.309	662.658	1621.879	8.1	8.3	8.6
B657-B668	2773.876	-695.229	-1544.524	4.9	4.8	5.0
B668-B675	1835.387	-494.907	-1079.768	3.8	3.9	4.1
B675-B678	593.703	-173.554	-375.085	3.1	3.4	3.4
B678-B689	2446.862	-865.214	-1797.635	5.5	5.7	5.7
B689-B693	1022.778	-413.142	-834.873	3.7	4.0	4.2
B689-B697	1987.232	-745.675	-1532.222	5.3	5.7	5.9
B693-B697	964.453	-332.533	-697.349	4.5	5.0	5.3
B729-G322	7623.215	-3465.118	-7073.538	22.9	23.7	23.6
B729-G106	7649.606	-3457.947	-7063.114	22.9	23.7	23.6
G106-G322	-26.391	-7.171	-10.425	1.6	3.0	3.1
K603-O100	-33.672	71.599	121.378	2.4	3.8	3.8
K603-O102	2236.120	107.284	-45.851	6.2	6.2	6.1
K603-K613	3170.944	-32.581	-368.989	6.4	6.5	6.4
K613-O017	-381.925	161.328	304.271	2.2	2.5	2.5
K613-O018	973.424	196.980	226.491	3.6	4.1	4.3
K613-O100	-3204.616	104.180	490.367	6.4	6.5	6.5
K613-O102	-934.823	139.864	323.138	2.6	2.8	2.8
K613-K616	848.562	72.464	32.514	3.5	3.9	4.2
K616-O017	-1230.488	88.864	271.756	3.7	4.2	4.4
K616-O018	124.862	124.516	193.977	2.2	2.7	3.0
K618-O018	-7756.268	248.625	1217.128	5.3	5.5	5.7
K618-O020	-1990.395	359.860	823.732	3.7	3.5	3.5
K618-O113	2063.199	433.462	524.798	5.1	5.1	5.1
K618-O116	5273.070	404.178	135.403	5.4	5.7	5.5
K618-O021	-90.313	147.690	258.234	2.6	3.3	3.3
K618-O022	3388.584	401.108	328.790	5.2	5.2	5.2
K628-O116	2164.196	110.082	-40.805	1.9	2.8	2.2
K628-O022	279.710	107.012	152.582	1.3	1.3	1.3
K628-O120	5597.833	158.743	-320.058	2.8	3.6	3.8
K628-K646	5697.331	144.480	-356.902	2.8	3.7	3.4
K646-W112	4633.270	-30.449	-538.047	5.1	5.1	5.1

K646-O022	-5417.621	-37.468	509.484	2.5	3.4	3.2
K646-W108	1337.563	6.875	-126.975	4.3	4.2	4.2
K646-O116	-3533.135	-34.398	316.097	2.9	4.2	3.7
K646-O120	-99.498	14.263	36.844	1.3	2.0	2.5
K646-W603	2244.543	-5.522	-245.859	4.6	4.5	4.5
O017-O018	1355.350	35.652	-77.779	3.8	4.3	4.5
O017-O020	7121.223	146.887	-471.175	0.0	0.0	0.0
O017-O100	-2822.691	-57.148	186.097	6.3	6.3	6.3
O017-O102	-552.898	-21.464	18.867	1.8	1.9	1.8
O018-O021	7665.955	-100.935	-958.894	5.4	5.7	5.8
O018-O113	9819.467	184.837	-692.330	6.4	6.6	6.8
O020-O021	1900.082	-212.169	-565.498	3.8	3.8	3.8
O020-O113	4053.594	73.603	-298.934	5.2	5.2	5.1
O021-O113	2153.513	285.772	266.564	5.3	5.5	5.5
O022-O113	-1325.385	32.354	196.008	3.7	3.6	3.6
O022-O116	1884.486	3.070	-193.387	1.5	2.6	1.8
O022-O120	5318.123	51.731	-472.640	2.5	3.4	3.6
O100-O102	2269.793	35.684	-167.229	6.2	6.2	6.2
O113-O116	3209.871	-29.285	-389.395	3.9	4.3	4.0
O116-O120	3433.637	48.661	-279.253	2.9	4.2	4.0
O120-W108	1437.061	-7.388	-163.819	4.3	4.4	4.6
O120-W112	4732.769	-44.712	-574.891	5.1	5.2	5.4
O120-W603	2344.042	-19.785	-282.703	4.6	4.7	4.9
W108-W603	906.981	-12.398	-118.884	3.7	3.6	3.6
W108-W112	3295.708	-37.324	-411.072	5.2	5.2	5.2
W112-W114	1768.024	-27.705	-253.124	4.7	4.9	5.0
W112-W603	-2388.727	24.927	292.188	4.6	4.5	4.5
W112-W613	1137.922	-46.114	-215.665	3.5	3.4	3.4
W112-W629	6118.534	-132.669	-903.761	3.7	3.6	3.6
W114-W529	4241.740	-196.273	-801.252	5.7	5.9	6.0
W114-W603	-4156.751	52.632	545.312	6.3	6.4	6.6
W114-W613	-630.101	-18.409	37.459	4.0	4.5	4.8
W114-W629	4350.511	-104.963	-650.638	5.6	5.8	5.9
W114-W645	8973.759	-553.175	-1932.349	5.2	5.4	5.5
W122-W127	4247.775	-429.414	-1201.029	3.3	3.5	3.5
W122-W630	-5345.664	1023.635	2344.660	2.5	2.5	2.5
W122-W645	-640.101	20.372	106.416	2.6	2.6	2.6
W122-W660	4263.526	-466.517	-1264.410	3.2	3.2	3.2
W127-W132	4150.623	-407.752	-1178.741	6.3	6.5	6.6
W127-W630	-9593.439	1453.048	3545.689	2.4	2.6	2.7
W127-W660	15.751	-37.104	-63.381	1.2	1.8	1.9
W127-W672	3533.349	-361.459	-1026.864	6.8	7.2	7.4
W127-W676	4508.219	-506.634	-1381.395	6.0	6.1	6.2
W127-W645	-4887.876	449.785	1307.445	2.8	2.9	3.0
W132-W135	3065.240	-358.587	-946.858	5.3	5.4	5.6
W132-W660	-4134.872	370.648	1115.360	6.2	6.3	6.5
W132-W672	-617.274	46.293	151.877	3.8	4.6	5.0
W132-W138	5476.946	-580.530	-1609.828	5.9	6.0	6.2

W132-W676	357.597	-98.882	-202.654	2.9	3.6	3.9
W132-W687	3777.984	-474.687	-1232.770	5.5	5.6	5.8
W135-W138	2411.707	-221.942	-662.970	4.1	4.0	4.0
W135-W676	-2707.643	259.705	744.204	4.9	4.8	4.8
W135-W687	712.744	-116.100	-285.912	1.7	1.7	1.7
W138-W139	922.878	-156.893	-384.949	4.0	4.6	4.6
W138-W140	1513.129	-214.269	-545.825	4.1	4.7	4.7
W138-W676	-5119.350	481.647	1407.174	5.7	5.6	5.7
W138-W687	-1698.963	105.842	377.058	4.3	4.2	4.3
W138-W696	909.842	-189.892	-441.673	4.0	4.5	4.5
W138-W708	4623.556	-698.384	-1734.680	5.8	6.2	6.3
W139-W140	590.250	-57.376	-160.875	2.4	3.2	3.1
W139-W696	-13.036	-32.999	-56.724	1.7	2.4	2.2
W139-W708	3700.677	-541.490	-1349.730	5.9	6.4	6.4
W140-W145	3156.684	-450.496	-1131.313	6.0	6.6	6.5
W140-W148	5024.459	-597.835	-1605.891	4.1	4.7	4.7
W140-W696	-603.286	24.377	104.152	2.2	2.8	2.8
W140-W708	3110.427	-484.115	-1188.855	5.8	6.3	6.3
W145-W148	1867.775	-147.339	-474.578	5.9	6.5	6.4
W145-W696	-3759.971	474.873	1235.465	6.0	6.6	6.5
W145-W708	-46.257	-33.619	-57.542	2.2	3.1	2.6
W148-W153	2580.282	-503.464	-1174.538	6.8	7.3	7.6
W148-W696	-5627.746	622.212	1710.043	4.0	4.5	4.5
W148-W708	-1914.032	113.720	417.036	5.8	6.2	6.3
W148-W717	813.591	-257.889	-533.255	5.4	5.9	6.2
W148-W724	2822.725	-546.852	-1272.911	6.8	7.3	7.6
W153-W717	-1766.691	245.575	641.283	6.6	7.2	7.5
W153-W724	242.443	-43.387	-98.373	2.3	3.2	3.5
W529-W629	108.770	91.309	150.614	2.0	2.4	2.4
W529-W630	26.456	646.361	1107.146	2.9	2.9	2.9
W529-W645	4732.019	-356.902	-1131.098	3.2	3.2	3.2
W603-W613	3526.649	-71.041	-507.853	5.6	5.4	5.5
W603-W629	8507.261	-157.595	-1195.949	5.8	5.7	5.8
W613-W629	4980.612	-86.555	-688.097	4.9	4.8	4.8
W629-W630	-82.314	555.052	956.532	2.8	2.7	2.8
W629-W645	4623.248	-448.212	-1281.712	3.1	3.0	3.1
W630-W645	4705.563	-1003.263	-2238.244	1.4	1.4	1.4
W630-W660	9609.190	-1490.152	-3609.070	2.2	2.2	2.2
W645-W660	4903.627	-486.889	-1370.826	2.6	2.6	2.6
W660-W672	3517.598	-324.355	-963.483	6.7	7.1	7.3
W660-W676	4492.468	-469.530	-1318.014	6.0	6.0	6.1
W672-W676	974.870	-145.175	-354.531	4.1	5.0	5.4
W676-W687	3420.387	-375.805	-1030.116	5.1	5.0	5.0
W696-W708	3713.714	-508.491	-1293.007	5.8	6.3	6.3
W717-W724	2009.135	-288.962	-739.656	6.7	7.2	7.5

4. Baseline Corrections (Corrections and Normalized Corrections)

Baseline	vN [mm]	vE [mm]	vH [mm]	vN/sN	vE/sE	vH/sH
B006-B011	0.5	-1.0	-0.2	0.1	-0.1	-0.0
B006-G106	-1.5	2.6	-0.0	-0.1	0.1	-0.0
B006-G322	-2.7	4.2	3.5	-0.2	0.2	0.1
B006-B729	0.7	-0.6	-0.7	0.1	-0.0	-0.0
B011-G106	-0.3	-8.1	-13.1	-0.0	-0.4	-0.4
B011-G322	0.7	-11.6	-4.0	0.0	-0.5	-0.1
B011-B729	0.0	0.1	0.1	0.0	0.0	0.0
B021-B678	5.8	-6.8	-11.7	1.4	-1.2	-1.7
B021-B689	-0.2	-0.1	0.0	-0.1	-0.1	0.0
B021-B024	0.7	-1.8	-8.8	0.2	-0.4	-1.5
B021-B201	-0.3	1.4	3.0	-0.1	0.5	0.8
B024-B026	1.3	-2.2	-5.7	0.4	-0.5	-1.0
B024-B028	-0.2	0.6	-4.8	-0.1	0.1	-0.9
B024-B675	1.5	-3.8	-6.0	0.5	-0.9	-1.1
B024-B678	0.6	-2.0	-4.0	0.2	-0.5	-0.7
B024-B678	2.6	-3.1	-2.6	0.9	-0.8	-0.5
B024-B689	-6.4	3.6	5.5	-1.6	0.7	0.9
B024-B201	-7.0	4.6	6.2	-1.7	0.9	1.0
B026-B675	0.6	-1.2	-1.3	0.3	-0.4	-0.3
B026-B678	-0.4	0.3	0.6	-0.2	0.1	0.1
B026-B028	1.8	-0.3	-4.3	0.7	-0.1	-0.9
B028-B029	1.5	0.0	-0.2	0.7	0.0	-0.1
B028-B033	3.7	-1.4	-4.9	1.2	-0.4	-1.2
B028-B668	0.8	-0.8	-4.1	0.3	-0.2	-1.0
B028-B675	-1.1	1.2	-0.1	-0.5	0.5	-0.0
B028-B675	-0.4	0.3	3.5	-0.2	0.1	1.1
B028-B678	-1.4	1.4	4.2	-0.5	0.4	0.9
B029-B033	3.6	-0.2	0.0	1.2	-0.1	0.0
B029-B668	2.4	-1.4	-0.2	0.8	-0.4	-0.0
B029-B675	-0.1	1.9	2.6	-0.1	0.6	0.7
B033-B039	6.6	-1.0	-7.2	1.7	-0.2	-1.3
B033-B043	12.2	-6.1	-8.8	2.7	-1.1	-1.3
B033-B657	6.3	-1.8	-1.2	1.6	-0.4	-0.2
B033-B668	-1.4	-1.5	-1.1	-0.7	-0.7	-0.3
B033-B668	1.4	1.9	3.0	0.7	0.9	0.9
B033-B675	-4.0	1.9	2.9	-1.2	0.5	0.6
B039-B043	12.2	-2.8	-12.1	2.7	-0.5	-2.1
B039-B657	0.4	-0.1	-0.4	0.2	-0.1	-0.2
B039-B668	-3.0	3.8	7.6	-0.8	0.8	1.4
B043-B044	2.5	-1.0	-0.1	0.7	-0.2	-0.0
B043-B046	4.4	-3.0	-4.4	1.1	-0.6	-0.9
B043-B064	3.9	-2.3	-1.5	1.0	-0.5	-0.3
B043-B657	-6.2	3.7	8.4	-1.4	0.7	1.4
B043-B657	-7.1	3.4	8.3	-1.6	0.6	1.4
B043-B668	-11.5	6.2	7.8	-2.6	1.1	1.2
B044-B046	1.3	-1.3	-1.7	0.3	-0.3	-0.3
B044-B064	1.6	-0.8	0.8	0.5	-0.2	0.2

B044-B657	-9.2	3.3	8.1	-1.7	0.5	1.1
B046-B064	-3.8	2.5	-1.2	-1.2	0.6	-0.3
B046-B064	-0.0	-0.3	1.6	-0.0	-0.1	0.4
B046-B049	6.2	-11.0	-18.3	1.6	-2.2	-3.5
B046-B609	11.7	-20.9	-13.5	1.8	-2.3	-1.2
B046-B630	0.1	-1.0	-0.4	0.0	-0.3	-0.1
B046-B657	-11.0	5.3	12.8	-1.9	0.8	1.7
B049-B064	-7.8	15.4	9.2	-2.0	3.4	1.8
B049-W153	1.7	-16.2	-21.8	0.3	-2.4	-2.4
B049-W724	4.1	-12.0	-9.6	0.8	-1.8	-1.0
B049-B053	4.1	-7.4	-8.7	0.6	-0.9	-0.8
B049-B609	2.7	-7.6	-8.4	0.5	-1.0	-0.9
B049-B609	6.4	-10.8	0.2	1.1	-1.4	0.0
B049-B630	-1.8	5.2	1.7	-0.4	0.9	0.3
B053-W153	2.1	-6.1	-13.1	0.3	-0.7	-1.2
B053-W724	2.9	-4.2	-0.7	0.4	-0.5	-0.1
B053-B609	-0.2	0.2	0.2	-0.0	0.0	0.0
B064-B609	14.8	-28.3	-12.1	2.2	-3.2	-1.1
B064-B630	5.3	-6.3	-0.9	1.3	-1.2	-0.2
B064-B657	-11.6	4.3	6.4	-2.1	0.6	0.9
B200-B689	0.4	0.4	-3.8	0.1	0.1	-0.8
B200-B693	0.5	-0.0	0.4	0.2	-0.0	0.1
B200-B697	-0.2	0.1	-0.2	-0.0	0.0	-0.0
B200-B201	-0.8	0.1	-0.1	-0.3	0.0	-0.0
B201-B678	8.4	-7.3	-13.6	2.0	-1.3	-2.0
B201-B689	-0.2	-0.6	-1.9	-0.1	-0.2	-0.5
B201-B689	4.6	0.1	-0.2	1.8	0.0	-0.0
B201-B693	0.4	0.1	-0.8	0.2	0.0	-0.2
B201-B697	0.5	0.1	-0.7	0.1	0.0	-0.1
B609-W148	10.5	-16.7	-9.0	1.8	-2.1	-0.9
B609-W153	0.5	-7.6	-10.2	0.1	-0.9	-1.0
B609-W153	7.6	-11.0	-0.3	1.2	-1.4	-0.0
B609-B630	-8.6	21.2	11.6	-1.2	2.3	1.0
B609-W717	9.6	-14.6	-7.5	1.5	-1.7	-0.7
B609-W724	1.5	-4.4	-0.9	0.2	-0.5	-0.1
B609-W724	8.0	-12.2	-2.7	1.3	-1.5	-0.3
B657-B668	-4.2	2.9	1.5	-1.1	0.6	0.3
B668-B675	-2.4	3.1	3.0	-0.7	0.8	0.6
B675-B678	-1.1	2.2	2.4	-0.5	0.7	0.6
B678-B689	-8.5	6.8	11.6	-2.0	1.2	1.7
B689-B693	-4.2	-0.0	-0.9	-1.3	-0.0	-0.2
B689-B697	-3.4	-0.2	0.1	-0.8	-0.0	0.0
B693-B697	0.6	-0.1	0.8	0.2	-0.0	0.1
B729-G322	2.2	0.4	8.9	0.2	0.0	0.3
B729-G106	2.4	2.8	-1.8	0.2	0.1	-0.1
G106-G322	-0.0	0.0	-0.0	-0.0	0.0	-0.0
K603-O100	-0.4	-0.0	-1.6	-0.2	-0.0	-0.3
K603-O102	0.4	-1.5	7.6	0.1	-0.2	1.0

K603-K613	-0.5	-0.4	-4.9	-0.1	-0.1	-0.6
K613-O017	-0.9	1.4	-4.2	-0.5	0.6	-1.4
K613-O017	0.3	-1.5	-3.0	0.2	-0.7	-1.0
K613-O018	-0.1	-0.1	-0.4	-0.0	-0.0	-0.1
K613-O100	0.3	0.6	2.7	0.1	0.1	0.3
K613-O102	-0.7	-0.5	6.6	-0.3	-0.2	2.0
K613-K616	-0.2	-0.2	-0.8	-0.1	-0.1	-0.2
K616-O017	0.4	-1.2	-2.3	0.1	-0.3	-0.4
K616-O018	-0.1	0.1	0.1	-0.0	0.0	0.0
K618-O018	8.6	-16.6	-26.2	2.0	-3.1	-4.0
K618-O020	0.1	-2.7	-0.1	0.0	-0.7	-0.0
K618-O113	-0.5	5.5	-11.3	-0.1	1.1	-1.8
K618-O113	-1.7	12.2	-7.7	-0.5	2.4	-1.2
K618-O116	-2.3	21.2	1.2	-0.6	4.0	0.2
K618-O021	0.4	-1.6	3.3	0.2	-0.6	0.8
K618-O022	-0.5	20.0	-0.4	-0.1	3.9	-0.1
K628-O116	0.2	1.7	-4.8	0.1	0.9	-1.6
K628-O116	2.0	-2.4	-12.2	1.1	-1.3	-4.0
K628-O022	0.1	0.1	0.1	0.1	0.1	0.1
K628-O022	-7.8	-0.4	2.7	-6.6	-0.3	2.1
K628-O120	-4.7	-19.2	-7.3	-1.7	-6.8	-1.6
K628-K646	2.8	-6.5	-4.1	1.0	-2.3	-1.0
K646-W112	2.9	26.0	-17.4	0.7	5.1	-2.9
K646-O022	-3.5	-0.9	1.5	-1.4	-0.4	0.4
K646-W108	2.2	4.7	-4.4	0.6	1.1	-1.0
K646-O116	-0.0	4.8	-11.5	-0.0	1.7	-2.4
K646-O120	1.4	-0.0	2.2	0.8	-0.0	0.8
K646-W603	0.4	8.5	-5.2	0.1	1.9	-1.0
O017-O018	-0.4	1.3	2.3	-0.1	0.3	0.4
O017-O020	-10.6	24.6	2.1	-14105.0	32710.7	2814.8
O017-O100	1.4	1.0	14.4	0.3	0.2	1.9
O017-O102	0.3	0.1	-1.3	0.2	0.1	-0.7
O018-O021	-6.4	16.7	20.6	-1.5	3.1	3.0
O018-O113	-7.5	23.4	13.7	-1.5	3.7	1.7
O020-O021	3.9	6.6	-6.2	1.3	1.7	-1.4
O020-O113	-1.0	10.2	-17.0	-0.3	2.0	-2.8
O021-O113	-1.1	7.3	-12.8	-0.3	1.4	-1.9
O022-O113	-2.7	-3.8	4.2	-0.8	-1.0	1.1
O022-O116	-2.8	2.0	6.9	-1.8	1.3	2.5
O022-O116	0.3	-0.3	-1.5	0.2	-0.2	-0.5
O022-O120	-7.5	6.2	-15.6	-2.9	2.4	-3.7
O100-O102	-1.9	2.2	-4.1	-0.4	0.4	-0.6
O113-O116	-1.6	7.4	9.9	-0.5	1.9	2.1
O116-O120	-7.7	-10.5	12.6	-2.6	-3.6	2.5
O120-W108	3.6	9.7	-3.0	0.9	2.2	-0.6
O120-W112	1.9	25.9	-18.9	0.4	5.1	-3.0
O120-W603	-0.8	8.6	-7.4	-0.2	1.9	-1.4
W108-W603	1.5	3.1	-2.5	0.4	0.8	-0.7

W108-W112	-2.6	16.6	-19.5	-0.6	3.2	-3.4
W112-W114	-2.6	4.8	2.6	-0.7	1.0	0.4
W112-W603	-0.3	-5.0	4.9	-0.1	-1.1	0.9
W112-W603	-2.7	-17.4	12.2	-0.7	-3.8	2.3
W112-W613	-0.4	1.4	-0.3	-0.1	0.4	-0.1
W112-W629	0.1	28.4	8.5	0.0	7.8	2.1
W114-W529	-8.8	26.7	-2.0	-1.9	4.7	-0.3
W114-W603	-0.3	-9.0	2.7	-0.0	-1.4	0.4
W114-W613	0.7	-1.8	2.1	0.2	-0.4	0.4
W114-W629	1.7	22.6	7.0	0.4	4.0	1.0
W114-W629	-8.7	27.3	-1.4	-1.9	4.9	-0.2
W114-W645	-9.0	29.1	-8.4	-2.1	5.6	-1.3
W122-W127	-7.0	20.9	21.9	-2.3	6.3	5.6
W122-W630	1.8	-0.3	-1.6	0.8	-0.1	-0.6
W122-W645	-0.9	-4.0	2.8	-0.4	-1.5	1.0
W122-W660	-8.5	20.4	15.5	-2.9	6.4	4.4
W127-W132	-4.1	2.2	-3.4	-0.8	0.4	-0.4
W127-W630	0.8	5.7	11.4	0.3	2.4	3.9
W127-W660	-0.5	-0.4	-3.1	-0.4	-0.3	-1.4
W127-W660	-0.8	0.8	0.5	-0.5	0.7	0.2
W127-W672	-3.5	2.2	-3.4	-0.6	0.3	-0.4
W127-W676	-4.1	1.8	-5.2	-0.8	0.3	-0.7
W127-W645	7.3	-24.7	-18.1	2.8	-9.0	-5.6
W132-W135	4.4	1.8	6.3	1.0	0.3	1.0
W132-W660	4.1	-2.5	0.4	0.8	-0.4	0.0
W132-W672	0.1	-0.3	-0.4	0.0	-0.1	-0.1
W132-W138	2.4	1.8	7.2	0.5	0.3	1.0
W132-W676	-0.8	-0.1	-0.9	-0.3	-0.0	-0.2
W132-W687	3.4	4.3	1.2	0.8	0.8	0.2
W135-W138	2.0	-2.1	2.0	0.6	-0.5	0.4
W135-W138	-1.5	1.5	-1.4	-0.4	0.4	-0.3
W135-W676	0.9	1.0	-1.3	0.2	0.2	-0.2
W135-W676	3.1	-0.9	1.6	0.8	-0.2	0.3
W135-W687	-0.2	-2.3	1.9	-0.2	-1.3	1.1
W135-W687	0.1	0.1	0.1	0.1	0.1	0.0
W138-W139	-2.5	-0.0	4.3	-0.9	-0.0	0.7
W138-W140	-1.4	3.4	2.7	-0.5	0.8	0.5
W138-W140	0.2	10.6	-4.0	0.1	2.6	-0.7
W138-W676	4.4	-0.4	0.4	1.0	-0.1	0.1
W138-W687	0.8	2.4	-6.2	0.2	0.6	-1.3
W138-W696	-0.9	2.0	2.6	-0.3	0.5	0.5
W138-W708	-0.8	6.1	7.7	-0.2	1.1	1.0
W139-W140	0.8	3.0	-1.0	0.4	1.2	-0.3
W139-W140	2.9	-2.5	6.0	1.5	-1.0	1.5
W139-W696	-0.5	-0.4	0.7	-0.4	-0.2	0.2
W139-W708	1.8	5.5	4.4	0.4	0.9	0.5
W140-W145	-3.6	9.1	0.7	-0.8	1.5	0.1
W140-W148	-10.6	12.6	8.8	-3.5	3.1	1.5

W140-W696	1.5	-2.2	-0.9	0.8	-1.0	-0.3
W140-W696	-3.2	1.2	-1.2	-1.8	0.5	-0.3
W140-W696	1.1	3.1	-1.5	0.6	1.4	-0.4
W140-W708	0.3	1.3	2.1	0.1	0.2	0.3
W140-W708	-0.9	4.8	7.5	-0.2	0.8	1.0
W140-W708	-5.5	6.9	3.7	-1.3	1.2	0.5
W145-W148	-5.6	5.1	5.2	-1.3	0.8	0.7
W145-W696	7.0	-3.8	-5.4	1.6	-0.6	-0.7
W145-W708	0.0	-0.0	-0.2	0.0	-0.0	-0.1
W148-W153	-2.2	5.1	4.1	-0.4	0.8	0.4
W148-W696	12.4	-9.1	-9.4	4.3	-2.3	-1.7
W148-W708	5.3	-5.6	-4.4	1.2	-1.0	-0.6
W148-W717	-1.1	1.9	1.5	-0.3	0.4	0.2
W148-W724	-2.2	5.1	4.4	-0.4	0.8	0.5
W153-W717	1.3	-2.7	-2.1	0.3	-0.4	-0.2
W153-W724	-0.5	0.4	8.4	-0.2	0.2	2.0
W153-W724	-0.2	-0.0	-0.6	-0.1	-0.0	-0.1
W529-W629	0.4	-0.0	0.5	0.2	-0.0	0.2
W529-W630	-1.6	0.9	-0.8	-0.7	0.3	-0.2
W529-W645	0.7	2.4	-4.4	0.3	0.7	-1.2
W603-W613	1.9	7.8	-4.6	0.4	1.4	-0.7
W603-W629	3.7	27.9	5.0	0.8	4.8	0.7
W613-W629	0.4	27.1	5.1	0.1	5.6	0.9
W629-W630	0.9	1.9	1.1	0.4	0.7	0.3
W629-W645	-0.3	2.6	-2.9	-0.1	0.9	-0.8
W630-W645	4.3	-0.1	4.0	3.4	-0.1	2.8
W630-W645	4.3	-0.1	4.0	3.4	-0.1	2.8
W630-W645	0.0	0.5	-0.1	0.0	0.4	-0.1
W630-W660	0.4	0.6	2.0	0.2	0.3	0.8
W645-W660	-8.1	24.7	12.0	-3.4	9.6	4.4
W660-W672	-4.1	2.2	-0.3	-0.8	0.3	-0.0
W660-W676	-5.3	1.9	-2.3	-1.1	0.3	-0.3
W672-W676	-0.8	-0.2	-1.3	-0.2	-0.0	-0.2
W676-W687	-2.8	1.3	-6.0	-0.7	0.2	-1.0
W696-W708	-0.8	3.4	7.4	-0.2	0.6	1.0
W696-W708	-6.5	4.2	3.6	-1.5	0.7	0.5
W717-W724	-1.1	3.3	3.2	-0.2	0.5	0.3

Baselines which were rejected by the statistical test are marked.

5. Adjusted Points in NAD83 (Cart. Coordinates and Std.Dev.)

Point	X [m]	Y [m]	Z [m]	sX [mm]	sY [mm]	sZ [mm]
B006	443972.486	-5514144.595	3163857.178	0.0	0.0	0.0
B011	440533.116	-5513373.023	3165663.643	13.8	14.6	14.4
B021	409112.975	-5505330.427	3183704.660	3.1	3.2	3.3
B024	407594.794	-5504702.854	3184977.499	5.2	5.3	5.4

B026	406331.224	-5504292.818	3185841.230	5.7	5.9	5.9
B028	405144.465	-5503996.614	3186495.571	5.5	5.5	5.6
B029	404732.741	-5503860.328	3186780.437	5.7	5.7	5.9
B033	403655.308	-5503572.624	3187413.651	5.6	5.6	5.7
B039	401560.457	-5503138.916	3188423.582	5.3	5.1	5.3
B043	398287.609	-5502341.216	3190202.063	0.0	0.0	0.0
B044	397187.656	-5502097.767	3190754.292	4.3	4.2	4.3
B046	394972.968	-5501592.776	3191894.602	5.0	4.5	4.6
B049	391747.526	-5500931.158	3193419.853	0.0	0.0	0.0
B053	387510.498	-5500162.875	3195240.945	8.5	8.7	9.2
B064	396538.922	-5502018.833	3190966.714	4.5	4.4	4.5
B200	409919.785	-5505623.865	3183099.096	2.6	3.1	3.3
B201	410143.211	-5505384.180	3183487.250	0.0	0.0	0.0
B609	388081.378	-5500282.365	3194973.588	7.9	8.0	8.2
B630	393801.871	-5501357.308	3192435.664	5.6	5.1	5.3
B657	401102.295	-5503078.813	3188586.048	5.2	5.1	5.2
B668	403876.171	-5503774.043	3187041.524	5.5	5.5	5.6
B675	405711.558	-5504268.950	3185961.756	5.6	5.6	5.7
B678	406305.260	-5504442.504	3185586.671	5.5	5.7	5.8
B689	408752.122	-5505307.717	3183789.036	3.1	3.2	3.3
B693	409774.900	-5505720.860	3182954.163	2.7	3.2	3.5
B697	410739.354	-5506053.392	3182256.814	4.7	5.2	5.4
B729	441228.528	-5513423.579	3165484.028	13.7	14.4	14.2
G106	448878.135	-5516881.526	3158420.914	22.7	23.4	23.4
G322	448851.744	-5516888.697	3158410.490	22.7	23.4	23.4
K603	324063.416	-5496565.706	3208379.946	6.3	6.3	6.2
K613	327234.360	-5496598.287	3208010.957	2.2	2.5	2.5
K616	328082.923	-5496525.823	3208043.472	3.7	4.2	4.4
K618	335964.053	-5496649.932	3207020.321	3.7	3.5	3.5
K628	339072.926	-5496355.836	3207196.529	5.2	5.2	5.2
K646	344770.258	-5496211.356	3206839.627	5.1	5.1	5.1
O017	326852.435	-5496436.959	3208315.228	0.0	0.0	0.0
O018	328207.785	-5496401.307	3208237.449	3.8	4.3	4.5
O020	333973.658	-5496290.072	3207844.053	0.0	0.0	0.0
O021	335873.740	-5496502.241	3207278.555	3.8	3.8	3.8
O022	339352.637	-5496248.824	3207349.111	5.1	5.1	5.1
O100	324029.744	-5496494.107	3208501.325	6.3	6.3	6.3
O102	326299.537	-5496458.423	3208334.095	1.8	1.9	1.8
O113	338027.252	-5496216.469	3207545.119	5.2	5.2	5.1
O116	341237.123	-5496245.754	3207155.724	5.3	5.6	5.4
O120	344670.759	-5496197.093	3206876.471	5.1	5.2	5.4
W108	346107.820	-5496204.481	3206712.652	5.2	5.2	5.2
W112	349403.528	-5496241.805	3206301.580	0.0	0.0	0.0
W114	351171.552	-5496269.510	3206048.456	4.7	4.9	5.0
W122	360785.412	-5496843.057	3204009.691	0.0	0.0	0.0
W127	365033.187	-5497272.471	3202808.662	3.3	3.5	3.5
W132	369183.810	-5497680.222	3201629.921	5.9	6.0	6.2
W135	372249.049	-5498038.810	3200683.063	4.1	4.0	4.0

W138	374660.756	-5498260.752	3200020.093	0.0	0.0	0.0
W139	375583.634	-5498417.645	3199635.144	4.0	4.6	4.6
W140	376173.885	-5498475.021	3199474.268	4.1	4.7	4.7
W145	379330.569	-5498925.517	3198342.955	5.9	6.5	6.4
W148	381198.344	-5499072.856	3197868.377	0.0	0.0	0.0
W153	383778.626	-5499576.320	3196693.839	6.8	7.3	7.6
W529	355413.292	-5496465.783	3205247.204	3.7	3.7	3.8
W603	347014.801	-5496216.878	3206593.768	4.6	4.5	4.5
W613	350541.450	-5496287.919	3206085.915	3.5	3.4	3.4
W629	355522.062	-5496374.474	3205397.819	3.7	3.6	3.6
W630	355439.748	-5495819.422	3206354.351	2.5	2.5	2.5
W645	360145.311	-5496822.685	3204116.107	2.6	2.6	2.6
W660	365048.938	-5497309.574	3202745.281	3.2	3.2	3.2
W672	368566.536	-5497633.929	3201781.798	6.5	6.9	7.1
W676	369541.406	-5497779.105	3201427.267	5.7	5.6	5.7
W687	372961.793	-5498154.910	3200397.151	4.3	4.2	4.3
W696	375570.598	-5498450.644	3199578.420	4.0	4.5	4.5
W708	379284.312	-5498959.136	3198285.413	5.8	6.2	6.3
W717	382011.935	-5499330.745	3197335.122	5.4	5.9	6.2
W724	384021.069	-5499619.708	3196595.466	6.8	7.3	7.6

6. Adjusted Points in NAD83 (Geogr. Coordinates and Std.Dev.)

Point	Lat [Deg]	Lon [Deg]	ell.H [m]						
B006	N29° 55' 56.11649"	W85° 23' 48.29480"	-21.529						
B011	N29° 57' 03.87724"	W85° 25' 53.83575"	-24.627						
B021	N30° 08' 20.70507"	W85° 45' 00.13960"	-24.149						
B024	N30° 09' 08.48860"	W85° 45' 54.97757"	-23.255						
B026	N30° 09' 40.93301"	W85° 46' 40.93893"	-23.472						
B028	N30° 10' 05.54928"	W85° 47' 24.35792"	-25.505						
B029	N30° 10' 16.25849"	W85° 47' 39.33082"	-25.966						
B033	N30° 10' 40.00735"	W85° 48' 18.70595"	-23.964						
B039	N30° 11' 17.91598"	W85° 49' 35.61979"	-22.237						
B043	N30° 12' 24.70463"	W85° 51' 35.49298"	-20.367						
B044	N30° 12' 45.46603"	W85° 52' 15.85691"	-20.877						
B046	N30° 13' 28.29679"	W85° 53' 37.10183"	-19.616						
B049	N30° 14' 25.64401"	W85° 55' 35.65690"	-20.567						
B053	N30° 15' 34.16569"	W85° 58' 11.71730"	-23.774						
B064	N30° 12' 53.47657"	W85° 52' 39.83885"	-22.347						
B200	N30° 07' 57.95058"	W85° 44' 30.89173"	-23.340						
B201	N30° 08' 12.47864"	W85° 44' 21.90210"	-20.839						
B609	N30° 15' 24.05877"	W85° 57' 50.72888"	-20.858						
B630	N30° 13' 48.68729"	W85° 54' 20.15519"	-22.513						
B657	N30° 11' 23.99952"	W85° 49' 52.53811"	-21.158						
B668	N30° 10' 26.01734"	W85° 48' 11.02367"	-23.388						
B675	N30° 09' 45.44938"	W85° 47' 03.96874"	-22.908						
B678	N30° 09' 31.38088"	W85° 46' 42.31841"	-23.948						

B689	N30° 08' 23.87988"	W85° 45' 13.52243"	-24.486				
B693	N30° 07' 52.47834"	W85° 44' 36.55879"	-21.741				
B697	N30° 07' 26.31770"	W85° 44' 01.55048"	-22.960				
B729	N29° 56' 57.10719"	W85° 25' 28.13490"	-22.603				
G106	N29° 52' 32.49580"	W85° 20' 54.26186"	-23.881				
G322	N29° 52' 32.12124"	W85° 20' 55.26374"	-24.732				
K603	N30° 23' 48.49312"	W86° 37' 33.21702"	-23.786				
K613	N30° 23' 34.54189"	W86° 35' 34.71253"	-20.664				
K616	N30° 23' 35.81149"	W86° 35' 02.82049"	-23.053				
K618	N30° 22' 57.30938"	W86° 30' 08.42896"	-23.838				
K628	N30° 23' 03.93737"	W86° 28' 11.52676"	-23.568				
K646	N30° 22' 50.49746"	W86° 24' 38.20530"	-23.312				
O017	N30° 23' 46.08338"	W86° 35' 48.63533"	-25.194				
O018	N30° 23' 43.16483"	W86° 34' 57.87348"	-25.705				
O020	N30° 23' 28.27357"	W86° 31' 22.02574"	-21.459				
O021	N30° 23' 07.05526"	W86° 30' 11.46800"	-25.147				
O022	N30° 23' 09.68309"	W86° 28' 00.82273"	-23.665				
O100	N30° 23' 53.09991"	W86° 37' 34.31838"	-25.728				
O102	N30° 23' 46.79863"	W86° 36' 09.35860"	-25.453				
O113	N30° 23' 17.04335"	W86° 28' 50.29960"	-22.693				
O116	N30° 23' 02.40319"	W86° 26' 50.36415"	-23.666				
O120	N30° 22' 51.86571"	W86° 24' 41.89126"	-22.331				
W108	N30° 22' 45.67505"	W86° 23' 48.18985"	-21.066				
W112	N30° 22' 30.12939"	W86° 21' 45.08845"	-17.267				
W114	N30° 22' 20.73725"	W86° 20' 39.07203"	-24.384				
W122	N30° 21' 04.01743"	W86° 14' 41.19557"	-24.930				
W127	N30° 20' 18.73804"	W86° 12' 03.55813"	-20.426				
W132	N30° 19' 34.49178"	W86° 09' 29.53559"	-25.860				
W135	N30° 18' 58.70313"	W86° 07' 35.95964"	-17.036				
W138	N30° 18' 33.80908"	W86° 06' 06.46217"	-19.402				
W139	N30° 18' 19.42206"	W86° 05' 32.40138"	-24.294				
W140	N30° 18' 13.31399"	W86° 05' 10.50860"	-21.295				
W145	N30° 17' 30.68579"	W86° 03' 13.80815"	-17.186				
W148	N30° 17' 12.86009"	W86° 02' 04.46258"	-18.363				
W153	N30° 16' 28.76587"	W86° 00' 29.45616"	-22.279				
W529	N30° 21' 50.60495"	W86° 18' 01.01669"	-25.713				
W603	N30° 22' 41.20397"	W86° 23' 14.31619"	-21.274				
W613	N30° 22' 22.14418"	W86° 21' 02.66648"	-24.226				
W629	N30° 21' 56.20560"	W86° 17' 56.73118"	-22.139				
W630	N30° 22' 32.18667"	W86° 17' 58.46582"	-20.994				
W645	N30° 21' 08.02041"	W86° 15' 05.06215"	-24.844				
W660	N30° 20' 16.33729"	W86° 12' 03.06176"	-19.586				
W672	N30° 19' 40.18393"	W86° 09' 52.47509"	-24.710				
W676	N30° 19' 26.80053"	W86° 09' 16.42764"	-22.330				
W687	N30° 18' 47.99934"	W86° 07' 09.63664"	-19.752				
W696	N30° 18' 17.30679"	W86° 05' 32.97230"	-25.260				
W708	N30° 17' 28.57505"	W86° 03' 15.62160"	-19.999				
W717	N30° 16' 52.77066"	W86° 01' 34.76057"	-16.479				

W724	N30° 16' 25.02196"	W86° 00' 20.52035"	-19.913						
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8. Adjusted Points Error Ellipses

Point	A [mm]	B [mm]	Angle [Deg]
B006	0.0	0.0	0.0
B011	13.6	8.8	-87.4
B021	3.1	2.6	-78.7
B024	5.2	4.0	-80.7
B026	5.7	4.3	-81.5
B028	5.5	4.3	-82.4
B029	5.7	4.6	-82.5
B033	5.6	4.5	-84.4
B039	5.3	4.4	-88.0
B043	0.0	0.0	0.0
B044	4.3	3.8	-80.3
B046	5.0	3.8	-81.2
B049	0.0	0.0	0.0
B053	8.5	6.5	-81.7
B064	4.5	3.8	-80.0
B200	2.6	2.4	67.9
B201	0.0	0.0	0.0
B609	7.9	5.9	-84.7
B630	5.6	4.4	-81.4
B657	5.2	4.4	-87.8
B668	5.5	4.4	-84.1
B675	5.6	4.3	-81.6
B678	5.5	4.2	-81.2
B689	3.1	2.5	-83.4
B693	2.7	2.4	70.5
B697	4.7	3.7	79.7
B729	13.5	8.7	-87.2
G106	22.3	13.1	-87.4
G322	22.3	13.2	-87.4
K603	6.2	4.6	-84.5
K613	2.2	1.7	-76.0
K616	3.9	3.0	-66.3
K618	3.7	2.9	-84.7
K628	5.2	4.1	-83.0
K646	5.1	4.1	-82.9
O017	0.0	0.0	0.0
O018	3.9	3.1	-65.8
O020	0.0	0.0	0.0
O021	3.8	3.1	-82.9
O022	5.1	4.0	-82.9
O100	6.3	4.7	-84.7
O102	1.8	1.7	-84.5

O113	5.2	3.9	-83.2
O116	5.3	4.2	-81.1
O120	5.1	4.2	-83.3
W108	5.2	4.5	-82.6
W112	0.0	0.0	0.0
W114	4.7	3.8	-78.1
W122	0.0	0.0	0.0
W127	3.4	3.0	-74.2
W132	5.9	4.8	-86.6
W135	4.1	3.3	-80.3
W138	0.0	0.0	0.0
W139	4.0	2.9	-84.6
W140	4.1	3.0	-84.1
W145	6.0	4.4	-84.8
W148	0.0	0.0	0.0
W153	6.8	5.2	83.1
W529	3.7	3.0	-80.0
W603	4.6	3.6	-83.6
W613	3.5	2.8	-82.4
W629	3.7	3.0	-79.2
W630	2.5	2.2	-77.5
W645	2.6	2.2	-75.9
W660	3.2	2.9	-77.2
W672	6.5	5.3	88.7
W676	5.7	4.5	-83.6
W687	4.4	3.5	-79.9
W696	4.0	2.8	-83.5
W708	5.8	4.2	-82.9
W717	5.4	4.2	77.4
W724	6.8	5.2	83.3

Appendix E

TIER 1 Orthometric Heights

Panhandle TIER 1 SPC Florida North Zone									
Units: US Survey Feet									
Horizontal Datum: NAD83 Vertical Datum NAVD88 (Geoid03)					All values in Feet				
Station	SSN	Northing	Easting	Elevation	SSN	Elevation	Published Elevation	Elevation Difference	GEoid
FLGPS 7	B002	394360.35	1615899.29	25.19	B002	25.19	25.31	0.12	-
9108L	B003	421018.72	1600743.94	8.93	B003	8.93	9.10	0.17	-
46 76 A04	B006	340151.29	1684451.99	19.42	B006	19.42	19.59	0.17	-
4676B15	B043	441463.67	1538957.07	23.79	B043	23.79			-
4676B06	B049	453937.85	1518038.41	23.11	B049	23.11	23.65	0.54	-
PARK 1956	B201	415551.14	1576722.88	22.24	B201	22.24			-
4884A15	E233	484060.38	1047317.38	18.76	E233	18.76			-
9909C	E253	494117.11	1063553.41	13.31	E253	13.31	13.44	0.13	-
83 60L 1988	F001	333263.34	1964793.06	6.17	F001	6.17	6.32	0.15	-
DNR G	F003	342971.85	2004392.04	11.55	F003	11.55	11.70	0.15	-
S 293 1967	F007	291156.12	1891712.74	23.42	F007	23.42	23.67	0.25	-
D340 1977	F034	243072.03	1857098.05	9.61	F034	9.61	9.88	0.27	-
48 80 B01	F067	223758.14	1823201.92	13.72	F067	13.72	14.17	0.45	-
49 80 B34	F101	279251.96	1906159.52	7.31	F101	7.31	7.66	0.35	-
49 80 D03	F120	328452.54	1997657.89	3.60	F120	3.60	4.30	0.70	-
49 80 D20	F138	342399.58	2019675.48	5.51	F138	5.51	6.20	0.69	-
WEST 1960	G003	262106.79	1778590.85	14.74	G003	14.74	14.96	0.22	-
C339 1977	G005	246625.67	1699828.89	5.84	G005	5.84	6.05	0.21	-
51 83 B08	G109	311823.16	1702383.11	9.55	G109	9.55	10.26	0.71	-
51 83 B20	G116	281077.19	1681219.90	6.26	G116	6.26			-
51 83 B39	G141	249341.75	1724255.33	7.72	G141	7.72			-
4884B21	O004	497240.65	1149724.16	4.85	O004	4.85			-
OPAL 95	O008	504332.77	1190768.96	6.44	O008	6.44			-
SANTA ROSA	O010	516842.24	1223390.80	24.31	O010	24.31	24.60	0.29	-
K297	O015	517579.45	1297427.34	8.43	O015	8.43	9.15	0.72	-
ARIUM	O017	513816.68	1307451.16	6.77	O017	6.77	7.72	0.95	-
CHARLES	O020	511595.91	1330764.27	19.12	O020	19.12			-
PAYNE 1942	O050	493773.49	1086278.23	10.81	O050	10.81	11.08	0.27	-
6076A05	W112	504861.72	1381189.89	33.13	W112	33.13	33.23	0.10	-
6076A13	W122	495575.87	1418183.27	8.23	W122	8.23	8.37	0.14	-
6076A24	W138	479740.74	1463064.52	26.73	W138	26.73	26.88	0.15	-
6076A30	W148	471271.93	1484164.62	30.28	W148	30.28	30.44	0.16	-
					Elevation Difference				
					Average				
					StDEV				
					Range				
					Min				

Appendix F
Tier 2 Orthometric Heights

TIER 2 SPC FEET						
Horizontal Datum: NAD83 NAD83(CORS96)(EPOCH:2002.0000)						
Vertical Datum:NAVD88 (GEOID03)						
SSN	Northing	Easting	Elevation	Sigma N	Sigma E	Sigma Ellipsoid Height
601	478438.59	1016274.29	10.18	0.02	0.03	0.03
O102	513922.35	1305637.92	5.92	0.00	0.00	0.00
K613	512628.48	1308648.87	21.63	0.00	0.01	0.01
K618	508354.42	1337154.02	11.33	0.01	0.01	0.01
W630	504750.75	1401041.76	21.05	0.01	0.01	0.01
O021	509343.53	1336905.17	7.04	0.01	0.01	0.01
BW01	484895.10	1044900.51	9.64	0.01	0.01	0.01
BW02	484869.68	1045129.64	8.44	0.01	0.01	0.01
W645	496012.29	1416098.62	8.49	0.01	0.01	0.01
634	484280.58	1049332.91	12.11	0.01	0.01	0.01
K616	512705.56	1311443.85	13.80	0.01	0.01	0.01
775	503858.36	1189107.97	8.60	0.01	0.01	0.01
W660	490550.17	1431965.01	25.86	0.01	0.01	0.01
E207	483064.60	1040170.46	11.50	0.01	0.01	0.01
625	482893.64	1040949.22	12.55	0.01	0.01	0.01
B021	416418.79	1573374.68	11.36	0.01	0.01	0.01
W613	503994.61	1384892.28	10.32	0.01	0.01	0.01
B689	416752.40	1572203.20	10.25	0.01	0.01	0.01
F068	225313.04	1826302.88	9.40	0.01	0.01	0.01
W127	490793.32	1431925.14	23.10	0.01	0.01	0.01
B200	414092.17	1575917.58	14.01	0.01	0.01	0.01
W629	501113.79	1401136.33	17.27	0.01	0.01	0.01
B693	413544.81	1575413.96	19.24	0.01	0.01	0.01
W529	500553.98	1400752.01	5.54	0.01	0.01	0.01
E208	484992.94	1051722.54	7.29	0.01	0.01	0.01
W135	482366.46	1455256.39	34.43	0.01	0.01	0.02
BL03	488852.28	1046582.14	3.12	0.01	0.01	0.02
BL04	488758.98	1046646.69	3.19	0.01	0.01	0.02
K603	514229.68	1298298.33	11.37	0.01	0.01	0.02
B044	443603.30	1535440.82	22.11	0.01	0.01	0.02
F098	272201.46	1901487.18	12.08	0.01	0.01	0.02
F100	276044.27	1905200.27	10.21	0.01	0.01	0.02
W687	481252.38	1457547.95	25.53	0.01	0.01	0.02
F072	232132.62	1837461.34	22.55	0.01	0.01	0.02
F673	235567.37	1843154.59	9.08	0.01	0.01	0.02
F075	235933.50	1843214.75	10.72	0.01	0.01	0.02
O100	514696.81	1298210.57	5.00	0.01	0.01	0.02
F099	274423.83	1903488.24	7.93	0.01	0.01	0.02
F073	232605.39	1838410.75	21.34	0.01	0.01	0.02
B064	444437.85	1533346.59	17.28	0.01	0.01	0.02

F069	226219.73	1827976.37	11.98	0.01	0.01	0.02
F097	270808.40	1900322.13	12.02	0.01	0.01	0.02
W603	506108.91	1373393.51	19.94	0.01	0.02	0.02
B046	448016.28	1528365.85	26.24	0.01	0.02	0.02
O018	513440.40	1311890.59	5.11	0.01	0.01	0.02
F077	238152.70	1846356.47	7.64	0.01	0.01	0.02
F384	240919.37	1853258.25	8.34	0.02	0.02	0.02
F081	243571.42	1858475.50	8.35	0.01	0.01	0.02
K628	508845.57	1347403.34	12.32	0.01	0.02	0.02
O022	509409.76	1348350.75	12.01	0.01	0.02	0.02
F076	236688.45	1844031.30	7.93	0.01	0.01	0.02
W696	478032.65	1465976.46	7.53	0.01	0.01	0.02
F096	268650.11	1898419.11	7.65	0.01	0.01	0.02
W108	506609.78	1370434.34	20.61	0.01	0.02	0.02
W114	503819.00	1386956.53	9.82	0.01	0.02	0.02
W139	478245.63	1466029.49	10.70	0.01	0.01	0.02
W140	477601.87	1467939.77	20.55	0.01	0.01	0.02
B630	450122.40	1524614.50	16.73	0.01	0.02	0.02
B657	435224.90	1547918.57	21.19	0.01	0.02	0.02
B039	434593.06	1549396.06	17.66	0.01	0.02	0.02
E223	481805.91	1031405.53	9.27	0.02	0.02	0.02
E236	509311.23	1223077.97	16.20	0.01	0.02	0.02
O113	510228.25	1344030.89	15.13	0.01	0.02	0.02
O120	507313.66	1365741.68	16.43	0.01	0.02	0.02
F078	239146.57	1848517.08	8.40	0.01	0.01	0.02
O116	508568.49	1354508.45	12.02	0.01	0.02	0.02
B024	421298.77	1568613.51	14.32	0.01	0.02	0.02
F662	229120.25	1832834.97	8.19	0.01	0.02	0.02
E226	495523.72	1144693.47	7.13	0.01	0.02	0.02
F123	327246.10	2001081.01	11.35	0.01	0.01	0.02
B028	427150.71	1560832.27	6.94	0.01	0.02	0.02
B697	410868.79	1578459.32	15.23	0.01	0.02	0.02
W676	485331.39	1446492.71	16.98	0.01	0.02	0.02
B033	430685.80	1556101.81	12.00	0.01	0.02	0.02
B668	429264.88	1556759.90	13.88	0.01	0.02	0.02
E217	491207.21	1089919.93	30.14	0.02	0.02	0.02
B675	425100.10	1562599.02	15.45	0.01	0.02	0.02
B029	428247.40	1559530.33	5.43	0.02	0.02	0.02
G148	249158.64	1739164.99	3.19	0.01	0.01	0.02
E230	495145.60	1140014.84	3.97	0.01	0.02	0.02
E235	507018.29	1205985.39	6.91	0.01	0.02	0.02
B678	423657.61	1564483.51	12.04	0.01	0.02	0.02
F694	244502.75	1863128.87	12.05	0.01	0.01	0.02
F121	327878.55	1999208.69	5.95	0.02	0.01	0.02
786	505774.13	1199580.21	9.33	0.01	0.02	0.02
O794	507040.88	1207409.68	13.14	0.01	0.02	0.02
F082	244778.60	1862076.58	9.41	0.01	0.01	0.02
F083	245565.03	1864891.82	9.43	0.01	0.01	0.02
744	498186.23	1158254.21	8.98	0.01	0.02	0.02
B026	424621.16	1564615.42	13.62	0.01	0.02	0.02

F094	265487.68	1895110.22	7.07	0.01	0.01	0.02
F136	338119.85	2020671.03	11.78	0.01	0.01	0.02
E228	499187.73	1162556.11	7.61	0.01	0.02	0.02
E227	499409.77	1163687.68	13.56	0.01	0.02	0.02
W132	486125.01	1445355.34	5.39	0.02	0.02	0.02
G122	262255.78	1687587.48	16.99	0.01	0.01	0.02
F087	250632.76	1877717.89	10.00	0.01	0.01	0.02
F092	260048.05	1889392.24	10.24	0.01	0.01	0.02
613	480986.34	1028957.41	12.24	0.02	0.02	0.02
W717	469207.65	1486741.30	36.47	0.01	0.02	0.02
F086	248860.80	1874161.93	3.49	0.01	0.02	0.02
G107	316671.63	1700688.14	9.75	0.01	0.01	0.02
W708	472943.88	1477948.06	24.87	0.01	0.02	0.03
F088	253096.04	1882064.83	9.17	0.01	0.02	0.03
F703	247588.56	1872182.18	8.24	0.01	0.02	0.03
W145	473154.93	1478109.94	34.10	0.01	0.02	0.03
F085	247529.98	1870660.83	5.40	0.01	0.02	0.03
G143	248051.02	1731415.36	8.91	0.01	0.01	0.03
F124	325761.03	2005499.07	10.30	0.02	0.01	0.03
W672	486729.29	1443353.56	9.14	0.02	0.02	0.03
E225	493415.55	1134876.46	26.15	0.02	0.02	0.03
E219	493408.00	1132649.60	13.03	0.02	0.02	0.03
G104	325148.88	1696810.24	11.00	0.02	0.01	0.03
644	486765.87	1059442.54	9.93	0.01	0.02	0.03
O001	498404.51	1132570.94	9.55	0.02	0.02	0.03
F129	326634.07	2013818.93	10.05	0.02	0.02	0.03
F134	330098.60	2019423.48	5.36	0.02	0.02	0.03
E202	479576.20	1020100.67	13.79	0.02	0.02	0.03
G124	256319.42	1689985.19	14.36	0.02	0.01	0.03
F133	328553.63	2018858.14	6.93	0.02	0.01	0.03
G142	248709.24	1728556.25	5.37	0.01	0.01	0.03
W153	466706.61	1492434.52	17.46	0.02	0.02	0.03
W724	466318.06	1493212.99	25.23	0.02	0.02	0.03
G134	249643.56	1706492.03	5.39	0.01	0.01	0.03
F128	326021.84	2011203.04	7.71	0.02	0.02	0.03
763	501712.36	1176742.28	10.07	0.02	0.02	0.03
F137	339992.85	2020230.66	11.42	0.01	0.01	0.03
G108	313789.93	1701572.40	9.02	0.01	0.01	0.03
707	491810.07	1122856.07	6.88	0.02	0.02	0.03
1030	492108.62	1123424.87	4.83	0.02	0.02	0.03
B609	459988.80	1506267.33	22.15	0.02	0.03	0.03
F131	326990.20	2017581.70	6.97	0.02	0.02	0.03
G140	249791.13	1720391.79	7.66	0.01	0.01	0.03
G110	318587.32	1685616.33	19.11	0.02	0.02	0.03
B005	337445.10	1687093.17	11.59	0.02	0.02	0.03
G101	332942.26	1691044.95	11.27	0.02	0.02	0.03
G119	273419.25	1683122.23	33.34	0.02	0.02	0.04
F125	325622.85	2007026.63	7.85	0.02	0.02	0.04
B053	461033.43	1504439.95	12.59	0.02	0.03	0.04
E229	489852.64	1100353.75	13.82	0.02	0.03	0.04

B007	342039.31	1682547.00	16.15	0.02	0.02	0.04
G105	322488.10	1698230.86	11.90	0.02	0.02	0.04
F718	255909.28	1885509.70	4.61	0.02	0.02	0.04
F130	326559.57	2016379.79	6.35	0.02	0.02	0.04
G125	251314.96	1691759.06	6.19	0.02	0.02	0.04
G004	297726.55	1713244.74	9.01	0.02	0.02	0.04
G149	273822.99	1684437.57	6.99	0.02	0.02	0.04
K646	507170.05	1366062.15	13.23	0.02	0.03	0.04
G100	335369.67	1689053.03	12.88	0.02	0.02	0.04
F006	307567.77	1906899.06	13.81	0.01	0.02	0.04
G133	248752.12	1702361.86	6.73	0.02	0.02	0.04
F066	223223.97	1821854.03	13.42	0.03	0.02	0.04
F029	320686.61	1938615.83	8.91	0.01	0.02	0.04
G103	328122.31	1694926.88	11.95	0.02	0.02	0.04
F139	344290.80	2018897.74	3.68	0.02	0.03	0.04
692	490132.08	1107909.10	6.82	0.02	0.03	0.04
G121	266503.03	1685812.00	17.32	0.02	0.02	0.04
F002	335524.50	1998290.38	10.68	0.02	0.02	0.04
G102	330697.94	1692968.28	11.60	0.02	0.02	0.04
G135	250043.95	1710658.49	5.71	0.02	0.03	0.04
F350	222957.80	1821309.13	7.46	0.03	0.02	0.04
G123	259793.63	1688741.19	15.55	0.02	0.02	0.05
G106	319465.02	1699611.25	11.41	0.03	0.02	0.05
F349	222645.49	1820352.27	7.31	0.03	0.02	0.05
G136	250034.92	1711957.73	12.48	0.02	0.02	0.05
1029	490897.12	1114789.70	5.59	0.02	0.03	0.05
F458	284134.67	1919727.40	2.93	0.01	0.02	0.05
G147	249182.70	1738458.36	4.51	0.03	0.02	0.05
F009	264296.75	1818868.92	7.85	0.02	0.02	0.05
F351	223403.66	1821962.19	18.68	0.03	0.02	0.05
F348	222252.07	1819435.73	7.67	0.03	0.03	0.05
G145	248024.33	1736694.79	8.29	0.03	0.02	0.05
F008	284795.31	1863189.47	19.79	0.02	0.03	0.05
F728	263568.69	1893113.13	7.06	0.02	0.04	0.05
G436	249790.30	1714364.55	11.34	0.02	0.02	0.05
G126	250030.31	1693006.42	10.05	0.02	0.02	0.05
F010	264028.24	1812280.18	18.99	0.02	0.02	0.05
F033	264361.93	1845314.24	2.56	0.02	0.03	0.05
F114	293368.68	1942462.47	13.91	0.02	0.02	0.05
B001	243224.85	1697077.03	6.14	0.03	0.02	0.05
E224	492108.61	1123424.76	4.78	0.03	0.04	0.05
G137	250095.84	1713525.89	14.44	0.02	0.02	0.06
G001	268059.46	1802294.48	14.05	0.04	0.03	0.06
F031	325652.02	2010063.31	7.47	0.03	0.03	0.06
G146	248318.43	1737416.96	5.48	0.04	0.03	0.06
G130	247492.22	1693806.71	9.25	0.02	0.02	0.06
F347	221861.37	1818480.40	7.12	0.03	0.03	0.06
B729	346382.48	1675717.50	15.98	0.03	0.04	0.06
F346	221473.93	1817532.55	8.05	0.03	0.03	0.06
B011	347084.77	1673462.19	9.35	0.03	0.04	0.06

G013	273495.74	1732392.27	9.90	0.03	0.03	0.06
F344	220878.44	1815574.32	6.60	0.03	0.03	0.06
G008	295958.64	1713454.86	5.84	0.03	0.03	0.06
G002	264028.25	1812280.12	18.92	0.04	0.03	0.06
F345	221167.61	1816553.36	6.26	0.03	0.03	0.06
F343	220540.81	1814623.73	5.87	0.03	0.03	0.07
G138	250374.35	1714359.13	7.60	0.03	0.03	0.07
F903	221392.63	1815124.42	2.49	0.04	0.03	0.07
F064	219831.89	1812657.28	5.91	0.04	0.03	0.07
G144	248279.03	1734476.01	6.38	0.05	0.02	0.07
F902	219342.62	1810032.75	2.84	0.04	0.03	0.07
G120	269336.02	1684455.28	14.23	0.02	0.02	0.07
G011	227331.77	1779125.38	7.80	0.03	0.03	0.08
F340	219483.43	1811736.98	6.51	0.04	0.03	0.08
F341	219780.44	1812665.17	7.29	0.04	0.03	0.08
F342	220156.10	1813689.79	6.64	0.04	0.03	0.08
F339	219102.43	1810855.99	6.66	0.04	0.03	0.08
F301	227331.75	1779125.40	7.77	0.03	0.03	0.08
G139	249879.25	1722970.10	5.34	0.04	0.03	0.08
F050	227762.02	1779240.55	9.31	0.03	0.03	0.08
F302	226571.90	1779625.53	5.33	0.03	0.03	0.08
F303	226031.41	1780486.82	9.99	0.03	0.03	0.08
F335	217804.73	1807020.35	7.13	0.04	0.03	0.08
F304	225530.22	1781257.25	5.39	0.03	0.03	0.08
F052	224964.76	1782271.94	18.35	0.03	0.03	0.08
F305	224998.53	1782201.95	13.28	0.03	0.03	0.08
F306	224315.38	1782838.71	7.20	0.03	0.03	0.08
F336	218146.01	1807945.73	9.05	0.04	0.04	0.09
F062	217572.13	1806119.80	7.31	0.04	0.04	0.09
F338	218682.58	1809800.64	14.66	0.04	0.04	0.09
F337	218443.72	1808977.02	7.08	0.04	0.04	0.09
F308	223233.50	1784659.99	5.54	0.03	0.03	0.09
F334	217484.15	1806085.03	10.05	0.04	0.04	0.09
F307	223947.26	1783923.02	10.21	0.03	0.03	0.09
F332	216905.54	1804102.78	11.12	0.04	0.04	0.09
F333	217268.05	1805032.19	15.49	0.04	0.04	0.09
F309	222737.79	1785470.81	7.41	0.04	0.04	0.09
F061	216638.85	1803238.96	9.33	0.04	0.04	0.09
F900	223153.47	1786072.33	3.37	0.04	0.04	0.09
F310	222016.27	1786207.08	6.77	0.04	0.04	0.09
F060	215724.13	1800576.39	20.44	0.04	0.04	0.09
F329	215941.17	1801213.30	15.37	0.04	0.04	0.09
F330	216260.24	1802187.28	10.39	0.04	0.04	0.09
F331	216578.85	1803157.34	10.63	0.04	0.04	0.09
F328	215570.03	1800282.81	17.54	0.04	0.04	0.09
F059	214731.76	1797460.38	13.16	0.04	0.04	0.09
F327	215227.28	1799299.04	11.25	0.04	0.04	0.09
F326	214934.94	1798330.17	11.59	0.04	0.04	0.09
F324	214395.88	1796373.04	11.61	0.04	0.04	0.10
F325	214667.54	1797321.84	12.78	0.04	0.04	0.10

F311	221422.96	1787136.27	8.88	0.04	0.04	0.10
F323	214227.87	1795374.52	10.04	0.05	0.04	0.10
F312	220706.39	1787825.73	8.70	0.04	0.04	0.10
F313	220032.38	1788515.77	8.66	0.04	0.04	0.10
F030	328620.51	1994326.76	3.59	0.04	0.04	0.10
F005	335390.72	1961978.11	32.73	0.03	0.04	0.10
F314	219396.65	1789325.19	7.10	0.04	0.04	0.10
G322	319427.95	1699522.79	8.60	0.04	0.07	0.10
F901	219084.22	1794889.28	4.09	0.05	0.04	0.10
F316	217906.75	1790688.48	9.16	0.04	0.04	0.10
F315	218771.51	1790151.67	12.63	0.04	0.04	0.10
F317	217215.19	1791396.40	10.89	0.04	0.04	0.10
F318	216435.64	1791976.27	6.03	0.04	0.04	0.10
F056	217024.36	1792203.01	8.88	0.04	0.04	0.11
F319	215646.13	1792668.43	7.16	0.04	0.04	0.11
F320	214741.04	1793361.48	6.53	0.04	0.04	0.11
F102	285141.27	1913791.05	5.78	0.06	0.04	0.11
F004	384723.42	2035242.83	6.59	0.04	0.05	0.11
G132	247435.61	1701333.89	10.10	0.05	0.04	0.13
G131	245863.12	1698276.71	8.80	0.05	0.04	0.14
G127	247186.41	1694526.26	5.09	0.05	0.04	0.14
G007	223758.27	1823201.78	13.73	0.06	0.05	0.14
G128	247113.26	1696874.62	9.46	0.06	0.05	0.14
G129	245934.39	1697847.77	6.20	0.06	0.04	0.14
F058	214919.81	1793795.35	6.39	0.05	0.05	0.16
F321	214414.45	1794035.56	7.84	0.06	0.05	0.16
F111	290513.99	1935553.81	6.34	0.13	0.08	0.25
F032	342369.80	2019611.85	10.13	0.15	0.13	0.25
F322	214359.98	1794359.80	8.76	0.10	0.09	0.32
F057	215808.59	1793207.56	10.17	0.32	0.66	0.58