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Ground Control Survey Report
Fugro McKenzie County ND
October 2014

1. GENERAL INFORMATION

- 1.1 Project Processing Coordinate System.
UTM NAD83 (2007) Zone 13 North Meters
- 1.2 Origin of Project Coordinate System.
OPUS Solutions a specific base points.

2. SURVEY TECHNIQUES

- 2.1 Equipment
 - 2.1.1 Trimble R8 GNSS and 4700 GPS Receivers with geodetic antennas and Topcon Hiperlite + GNSS Receivers were used for Static GPS applications for this project.
- 2.2 Field Applications.
 - 2.2.1 Static GPS applications to the project control include observations of one to ten second intervals with a ten degree mask. Observation times for the project control network includes multiple base stations with observations of 45 minutes to 24 hours half determined by the baseline length.
- 2.3 Post Processing and Adjustment.
 - 2.3.1 Trimble Business Center software was used for the post processing of the GPS vectors. Qualitative analysis of vectors to eliminate poor quality vectors from the data set. New vectors observed in the field were subsequently processed and introduced to the data set prior to adjustment. Adjustments of the vector networks were completed using the Static adjustment module of the software. All adjustments were completed using Ellipsoid Heights. The Geoid model was applied after adjustment by Fugro to obtain Geoid heights and hence Orthometric heights.

Size:		Coordinate System	
Modified:	10/28/2014 8:29:00 AM (UTC:-6)	Name:	UTM
Time zone:	Mountain Standard Time	Datum:	NAD 1983 (NSRS2007)
Reference number:		Zone:	13 North (105W)
Description:		Geoid:	
		Vertical datum:	

Network Adjustment Report

Adjustment Settings

Set-Up Errors

GNSS

Error in Height of Antenna: 0.003 m

Centering Error: 0.003 m

Covariance Display

Horizontal:

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Three-Dimensional

Propagated Linear Error [E]: U.S.

Constant Term [C]: 0.000 m

Scale on Linear Error [S]: 1.960

Adjustment Statistics

Number of Iterations for Successful Adjustment: 2

Network Reference Factor: 1.00

Chi Square Test (95%): Passed

Precision Confidence Level: 95%

Degrees of Freedom: 250

Post Processed Vector Statistics

Reference Factor: 1.00

Redundancy Number: 250.00

A Priori Scalar: 1.27

Control Point Constraints

Point ID	Type	North σ (Meter)	East σ (Meter)	Height σ (Meter)	Elevation σ (Meter)
231	Grid	Fixed	Fixed		
231	Local			Fixed	
BASE	Grid	Fixed	Fixed		

BASE	Local			Fixed
Fixed = 0.000001(Meter)				

Adjusted Grid Coordinates

Point ID	Northing (Meter)	Northing Error (Meter)	Easting (Meter)	Easting Error (Meter)	Elevation (Meter)	Elevation Error (Meter)	Constraint
101	5316892.487	0.016	669237.804	0.016	?	?	
102	5281299.289	0.018	575765.558	0.018	?	?	
103	5246958.874	0.021	590571.558	0.020	?	?	
104	5262023.403	0.018	581272.855	0.018	?	?	
105	5261753.610	0.014	601472.099	0.014	?	?	
106	5263422.932	0.012	625469.063	0.012	?	?	
107	5245791.472	0.016	629335.346	0.016	?	?	
208	5332317.888	0.017	594912.439	0.016	?	?	
209	5318702.916	0.015	591273.531	0.014	?	?	
210	5317049.515	0.021	571201.872	0.020	?	?	
211	5293564.519	0.019	574421.982	0.018	?	?	
212	5303479.948	0.014	587218.000	0.013	?	?	
213	5314569.593	0.021	607310.426	0.015	?	?	
214	5291345.619	0.013	594920.088	0.013	?	?	
215	5280919.956	0.014	594184.097	0.013	?	?	
216	5300300.037	0.009	601535.842	0.009	?	?	
217	5287711.267	0.008	615617.799	0.007	?	?	
218	5281652.817	0.011	634575.907	0.009	?	?	
219	5288987.288	0.008	638475.308	0.007	?	?	
220	5309556.284	0.007	621014.003	0.007	?	?	
221	5309068.919	0.007	638064.008	0.007	?	?	
222	5311679.807	0.014	662275.516	0.014	?	?	
223	5301180.731	0.008	625232.181	0.007	?	?	
224	5299157.252	0.010	644477.389	0.009	?	?	
225	5290315.753	0.013	660689.247	0.012	?	?	
226	5294464.754	0.008	630159.097	0.008	?	?	
227	5313139.755	0.012	595621.978	0.012	?	?	
228	5305237.185	0.020	570524.382	0.019	?	?	
229	5282805.425	0.010	606348.901	0.009	?	?	
230	5279625.202	0.007	627731.197	0.007	?	?	
231	5299033.550	?	613116.315	?	?	?	NEh
232	5324768.878	0.013	602397.705	0.012	?	?	
333	5329084.341	0.013	641201.296	0.013	?	?	
334	5327377.178	0.015	655320.312	0.015	?	?	
335	5271026.902	0.015	587701.041	0.015	?	?	
336	5253163.667	0.017	597080.607	0.017	?	?	
337	5274191.828	0.010	617620.835	0.010	?	?	
338	5271387.925	0.012	641995.747	0.011	?	?	

339	5317727.814	0.019	679339.338	0.019	?	?	
340	5287605.510	0.016	674014.892	0.015	?	?	
341	5245689.224	0.017	638755.151	0.017	?	?	
342	5247706.045	0.017	613794.112	0.016	?	?	
343	5246832.154	0.022	575015.213	0.023	?	?	
BASE	5293825.573	?	627138.886	?	?	?	NEh
BASE2	5295498.648	0.005	611692.252	0.005	?	?	

Adjusted Geodetic Coordinates

Point ID	Latitude	Longitude	Height (Meter)	Height Error (Meter)	Constraint
101	N47°58'58.55777"	W102°43'55.00929"	643.612	0.012	
102	N47°40'50.30643"	W103°59'25.88737"	654.668	0.032	
103	N47°22'11.32005"	W103°48'01.29713"	763.370	0.040	
104	N47°30'23.62149"	W103°55'14.63416"	696.676	0.016	
105	N47°30'04.66857"	W103°39'09.45150"	616.823	0.011	
106	N47°30'43.65119"	W103°20'01.09443"	776.449	0.010	
107	N47°21'10.04293"	W103°17'14.87798"	732.576	0.012	
208	N48°08'13.31315"	W103°43'27.28239"	607.096	0.010	
209	N48°00'54.34964"	W103°46'33.79324"	561.740	0.011	
210	N48°00'09.99155"	W104°02'43.57688"	563.031	0.028	
211	N47°47'28.09625"	W104°00'22.77193"	564.683	0.025	
212	N47°52'43.41698"	W103°50'00.63840"	595.028	0.014	
213	N47°58'31.54260"	W103°33'43.57055"	558.613	0.028	
214	N47°46'06.53856"	W103°43'59.46140"	645.178	0.034	
215	N47°40'29.30617"	W103°44'42.92968"	685.958	0.022	
216	N47°50'52.86935"	W103°38'34.13975"	663.290	0.011	
217	N47°43'56.68960"	W103°27'28.83446"	709.548	0.010	
218	N47°40'27.31335"	W103°12'25.75685"	705.764	0.011	
219	N47°44'21.80085"	W103°09'10.45411"	601.911	0.012	
220	N47°55'40.42410"	W103°22'47.87388"	699.326	0.011	
221	N47°55'12.24144"	W103°09'07.14638"	654.559	0.007	
222	N47°56'16.33449"	W102°49'37.73526"	693.984	0.012	
223	N47°51'06.33468"	W103°19'33.42000"	620.533	0.010	
224	N47°49'46.29212"	W103°04'10.21707"	649.642	0.010	
225	N47°44'46.26229"	W102°51'22.69849"	659.765	0.019	
226	N47°47'25.37409"	W103°15'43.69479"	614.045	0.011	
227	N47°57'51.91484"	W103°43'08.38719"	669.912	0.011	
228	N47°53'47.71074"	W104°03'23.24105"	577.601	0.031	
229	N47°41'23.56990"	W103°34'58.02546"	700.168	0.011	
230	N47°39'26.66239"	W103°17'56.00886"	727.197	0.009	
231	N47°50'04.89934"	W103°29'18.27442"	653.056	?	NEh
232	N48°04'04.69822"	W103°37'31.70433"	609.298	0.013	
333	N48°05'57.72320"	W103°06'12.33103"	552.387	0.014	

334	N48°04'50.63878"	W102°54'52.30114"	720.754	0.012	
335	N47°35'12.20016"	W103°50'00.92390"	658.573	0.016	
336	N47°25'28.89853"	W103°42'46.11341"	764.478	0.016	
337	N47°36'37.63228"	W103°26'05.80574"	708.215	0.018	
338	N47°34'49.28188"	W103°06'42.08095"	583.769	0.014	
339	N47°59'15.68372"	W102°35'46.82984"	574.217	0.018	
340	N47°43'06.10069"	W102°40'47.13858"	638.456	0.012	
341	N47°20'59.78102"	W103°09'46.20151"	784.680	0.013	
342	N47°22'22.44322"	W103°29'33.64572"	719.053	0.022	
343	N47°22'14.31168"	W104°00'23.01722"	712.739	0.026	
BASE	N47°47'06.85144"	W103°18'09.47346"	626.640	?	NEh
BASE2	N47°48'11.33578"	W103°30'30.03846"	707.818	0.006	

Adjusted ECEF Coordinates

Point ID	X (Meter)	X Error (Meter)	Y (Meter)	Y Error (Meter)	Z (Meter)	Z Error (Meter)	3D Error (Meter)	Constraint
101	-942732.171	0.016	-4172380.005	0.014	4716084.507	0.014	0.025	
102	-1040174.299	0.018	-4174849.070	0.026	4693527.077	0.026	0.041	
103	-1032410.724	0.020	-4203105.967	0.028	4670268.608	0.035	0.049	
104	-1038533.400	0.018	-4190013.252	0.017	4680504.305	0.017	0.030	
105	-1019004.755	0.014	-4195194.015	0.013	4680049.970	0.013	0.023	
106	-995452.903	0.012	-4200043.201	0.011	4680981.011	0.011	0.020	
107	-995060.143	0.016	-4213513.977	0.014	4668963.936	0.014	0.026	
208	-1011818.184	0.016	-4143021.648	0.015	4727510.331	0.013	0.026	
209	-1017959.170	0.014	-4151873.983	0.013	4718417.002	0.013	0.023	
210	-1037715.848	0.020	-4148030.807	0.024	4717501.295	0.025	0.040	
211	-1039110.225	0.018	-4165680.776	0.023	4701723.975	0.021	0.036	
212	-1024819.791	0.013	-4161805.973	0.014	4708284.400	0.014	0.023	
213	-1003216.574	0.014	-4158830.678	0.022	4715462.770	0.028	0.038	
214	-1019695.490	0.013	-4172451.901	0.026	4700090.764	0.025	0.039	
215	-1022412.502	0.014	-4179749.798	0.018	4693113.474	0.019	0.030	
216	-1011570.700	0.009	-4167698.945	0.010	4706044.125	0.010	0.017	
217	-1000345.816	0.008	-4180230.494	0.009	4697441.710	0.009	0.015	
218	-983126.553	0.009	-4189224.775	0.010	4693086.668	0.012	0.018	
219	-977924.504	0.007	-4184868.692	0.009	4697883.703	0.010	0.016	
220	-990921.080	0.007	-4165908.974	0.009	4712027.138	0.009	0.015	
221	-974477.323	0.007	-4170418.856	0.007	4711410.548	0.007	0.012	
222	-950497.332	0.014	-4174469.380	0.013	4712766.364	0.013	0.023	
223	-988428.755	0.007	-4172901.554	0.009	4706291.540	0.009	0.014	
224	-970160.639	0.009	-4179088.053	0.011	4704653.662	0.010	0.017	
225	-956132.220	0.012	-4189367.673	0.016	4698434.607	0.017	0.027	
226	-984939.896	0.008	-4178918.426	0.009	4701704.044	0.010	0.015	
227	-1014834.268	0.012	-4157023.651	0.012	4714725.908	0.012	0.021	
228	-1040645.462	0.019	-4156346.323	0.025	4709603.213	0.026	0.041	

229	-1010267.093	0.009	-4181436.859	0.010	4694252.392	0.011	0.017	
230	-990154.569	0.007	-4189007.083	0.008	4691840.878	0.008	0.013	
231	-1000590.053	?	-4171471.308	?	4705042.026	?	?	NEh
232	-1006021.516	0.012	-4150316.575	0.012	4722383.504	0.013	0.022	
333	-967567.233	0.013	-4156743.168	0.013	4724673.485	0.013	0.023	
334	-954227.519	0.015	-4161523.267	0.014	4723414.616	0.013	0.024	
335	-1030580.956	0.015	-4185177.202	0.016	4686492.605	0.015	0.027	
336	-1024922.305	0.017	-4200315.541	0.017	4674400.298	0.016	0.029	
337	-1000992.287	0.010	-4190383.571	0.014	4688308.638	0.015	0.023	
338	-977876.306	0.012	-4198289.342	0.013	4685959.903	0.013	0.021	
339	-932758.668	0.019	-4174170.630	0.019	4716387.022	0.019	0.033	
340	-943718.464	0.015	-4194513.503	0.014	4696337.972	0.014	0.025	
341	-985953.494	0.017	-4215929.878	0.015	4668787.523	0.015	0.027	
342	-1009759.088	0.017	-4208314.444	0.019	4670468.669	0.019	0.032	
343	-1047493.470	0.022	-4199267.062	0.024	4670293.936	0.025	0.041	
BASE	-987992.572	?	-4178641.891	?	4701328.972	?	?	NEh
BASE2	-1002657.110	0.005	-4173686.153	0.005	4702727.196	0.005	0.009	

Error Ellipse Components

Point ID	Semi-major axis (Meter)	Semi-minor axis (Meter)	Azimuth
101	0.020	0.019	139°
102	0.023	0.022	146°
103	0.026	0.025	179°
104	0.023	0.022	132°
105	0.018	0.018	123°
106	0.015	0.015	40°
107	0.020	0.020	56°
208	0.022	0.020	10°
209	0.018	0.017	12°
210	0.026	0.024	1°
211	0.024	0.022	166°
212	0.017	0.016	177°
213	0.026	0.019	171°
214	0.017	0.016	159°
215	0.018	0.016	151°
216	0.011	0.011	175°
217	0.010	0.009	171°
218	0.013	0.011	179°
219	0.010	0.009	2°
220	0.009	0.008	8°
221	0.009	0.009	136°
222	0.018	0.017	144°
223	0.009	0.008	177°

224		0.013	0.012	170°
225		0.016	0.015	179°
226		0.010	0.009	27°
227		0.016	0.015	10°
228		0.025	0.023	164°
229		0.012	0.012	167°
230		0.009	0.008	20°
232		0.016	0.015	26°
333		0.017	0.016	98°
334		0.019	0.018	121°
335		0.020	0.019	138°
336		0.021	0.021	101°
337		0.012	0.012	7°
338		0.015	0.014	27°
339		0.024	0.023	142°
340		0.020	0.019	173°
341		0.021	0.020	43°
342		0.021	0.021	11°
343		0.028	0.028	122°
BASE2		0.007	0.006	170°

Adjusted GPS Observations

Transformation Parameters

Azimuth Rotation: -0.264 sec (95%) 0.063 sec

Scale Factor: 1.00000005 (95%) 0.00000029

Observation ID		Observation	A-posteriori Error	Residual	Standardized Residual
221 --> 106 (PV53)	Az.	196°47'35"	0.032 sec	-0.009 sec	-0.393
	ΔHt.	121.882 m	0.011 m	0.028 m	3.899
	Ellip Dist.	47360.590 m	0.008 m	-0.006 m	-1.133
231 --> 338 (PV99)	Az.	134°52'03"	0.037 sec	0.017 sec	0.662
	ΔHt.	-69.300 m	0.014 m	0.040 m	2.792
	Ellip Dist.	39986.740 m	0.007 m	-0.002 m	-0.419
BASE2 --> 338 (PV80)	Az.	129°36'37"	0.037 sec	-0.032 sec	-1.061
	ΔHt.	-124.061 m	0.014 m	-0.020 m	-2.745
	Ellip Dist.	38732.842 m	0.007 m	0.000 m	0.004
BASE --> 224 (PV11)	Az.	74°09'53"	0.093 sec	-0.051 sec	-0.742
	ΔHt.	22.999 m	0.010 m	0.018 m	2.674

	Ellip Dist.	18142.890 m	0.007 m	0.006 m	1.332
BASE --> 218 (PV6)	Az.	149°49'59"	0.115 sec	-0.041 sec	-0.546
	ΔHt.	79.120 m	0.011 m	0.018 m	2.603
	Ellip Dist.	14267.531 m	0.009 m	0.004 m	0.654
221 --> 107 (PV57)	Az.	189°13'11"	0.019 sec	-0.032 sec	-1.860
	ΔHt.	78.004 m	0.013 m	0.042 m	2.595
	Ellip Dist.	63888.157 m	0.006 m	-0.002 m	-0.338
221 --> 231 (PV73)	Az.	249°27'29"	0.039 sec	0.008 sec	0.201
	ΔHt.	-1.499 m	0.007 m	0.022 m	2.518
	Ellip Dist.	26895.974 m	0.005 m	-0.003 m	-0.614
231 --> 106 (PV69)	Az.	161°59'12"	0.041 sec	0.003 sec	0.134
	ΔHt.	123.381 m	0.010 m	-0.017 m	-2.499
	Ellip Dist.	37700.744 m	0.008 m	-0.001 m	-0.124
221 --> 218 (PV20)	Az.	188°37'11"	0.056 sec	0.027 sec	0.765
	ΔHt.	51.200 m	0.011 m	-0.016 m	-2.453
	Ellip Dist.	27641.849 m	0.010 m	-0.003 m	-0.450
221 --> 101 (PV23)	Az.	77°17'03"	0.040 sec	0.015 sec	0.508
	ΔHt.	-10.952 m	0.012 m	-0.023 m	-2.386
	Ellip Dist.	32144.035 m	0.006 m	-0.005 m	-1.124
BASE --> 340 (PV9)	Az.	98°48'54"	0.027 sec	-0.005 sec	-0.232
	ΔHt.	11.804 m	0.012 m	0.022 m	2.378
	Ellip Dist.	47292.518 m	0.006 m	0.002 m	0.439
BASE --> 231 (PV74)	Az.	291°37'57"	0.063 sec	-0.025 sec	-0.342
	ΔHt.	26.420 m	0.000 m	-0.016 m	-1.550
	Ellip Dist.	14961.789 m	0.004 m	0.012 m	2.360
BASE --> 223 (PV66)	Az.	346°43'29"	0.173 sec	-0.240 sec	-1.641
	ΔHt.	-6.105 m	0.010 m	-0.014 m	-1.848
	Ellip Dist.	7599.834 m	0.007 m	0.013 m	2.238
BASE2 --> 231 (PV100)	Az.	23°02'52"	0.265 sec	0.033 sec	0.118
	ΔHt.	-54.761 m	0.006 m	-0.016 m	-2.201

	Ellip Dist.	3811.902 m	0.005 m	0.007 m	1.268
221 --> 220 (PV46)	Az.	273°00'33"	0.072 sec	-0.010 sec	-0.166
	ΔHt.	44.772 m	0.011 m	0.020 m	2.156
	Ellip Dist.	17060.272 m	0.006 m	-0.002 m	-0.388
BASE --> BASE2 (PV137)	Az.	277°26'21"	0.042 sec	0.100 sec	1.402
	ΔHt.	81.182 m	0.006 m	-0.006 m	-0.689
	Ellip Dist.	15540.468 m	0.003 m	0.012 m	2.155
221 --> 224 (PV16)	Az.	148°27'57"	0.132 sec	0.092 sec	1.098
	ΔHt.	-4.920 m	0.010 m	-0.012 m	-2.145
	Ellip Dist.	11807.445 m	0.008 m	0.002 m	0.351
221 --> 333 (PV21)	Az.	10°16'55"	0.066 sec	-0.039 sec	-0.801
	ΔHt.	-102.168 m	0.013 m	-0.027 m	-2.099
	Ellip Dist.	20263.057 m	0.007 m	0.000 m	-0.042
221 --> 334 (PV28)	Az.	44°40'46"	0.051 sec	-0.028 sec	-0.725
	ΔHt.	66.195 m	0.012 m	-0.023 m	-2.084
	Ellip Dist.	25162.349 m	0.006 m	-0.004 m	-0.811
216 --> 212 (PV109)	Az.	283°31'42"	0.110 sec	0.002 sec	0.024
	ΔHt.	-68.258 m	0.013 m	0.000 m	-0.104
	Ellip Dist.	14670.972 m	0.007 m	0.009 m	2.038
BASE --> 220 (PV47)	Az.	339°59'05"	0.067 sec	-0.065 sec	-1.084
	ΔHt.	72.691 m	0.011 m	-0.022 m	-1.980
	Ellip Dist.	16884.599 m	0.006 m	0.002 m	0.396
BASE --> 232 (PV49)	Az.	322°36'55"	0.038 sec	-0.016 sec	-0.618
	ΔHt.	-17.329 m	0.013 m	-0.016 m	-1.926
	Ellip Dist.	39627.771 m	0.007 m	-0.003 m	-0.576
BASE2 --> 208 (PV89)	Az.	336°36'27"	0.037 sec	0.000 sec	0.015
	ΔHt.	-100.709 m	0.010 m	0.002 m	0.246
	Ellip Dist.	40473.430 m	0.009 m	0.011 m	1.922
BASE --> 230 (PV87)	Az.	178°52'03"	0.075 sec	-0.014 sec	-0.200
	ΔHt.	100.553 m	0.009 m	-0.002 m	-0.207

	Ellip Dist.	14215.569 m	0.005 m	0.010 m	1.864
216 --> BASE2 (PV112)	Az.	116°18'29"	0.114 sec	-0.006 sec	-0.061
	ΔHt.	44.524 m	0.012 m	0.019 m	1.562
	Ellip Dist.	11237.069 m	0.006 m	0.009 m	1.837
BASE --> 225 (PV5)	Az.	97°13'45"	0.045 sec	0.003 sec	0.096
	ΔHt.	33.116 m	0.019 m	0.030 m	1.794
	Ellip Dist.	33738.321 m	0.007 m	0.005 m	0.984
BASE2 --> 227 (PV97)	Az.	318°46'27"	0.049 sec	0.031 sec	0.701
	ΔHt.	-37.898 m	0.011 m	0.000 m	-0.021
	Ellip Dist.	23869.802 m	0.006 m	0.009 m	1.771
BASE --> 219 (PV12)	Az.	114°22'09"	0.110 sec	-0.006 sec	-0.073
	ΔHt.	-24.733 m	0.012 m	0.020 m	1.758
	Ellip Dist.	12327.982 m	0.006 m	0.005 m	1.060
220 --> 223 (PV64)	Az.	154°28'15"	0.154 sec	-0.091 sec	-0.765
	ΔHt.	-78.796 m	0.012 m	-0.005 m	-0.723
	Ellip Dist.	9379.794 m	0.008 m	0.010 m	1.743
336 --> 105 (PV142)	Az.	28°01'34"	0.181 sec	-0.025 sec	-0.262
	ΔHt.	-147.653 m	0.014 m	0.007 m	1.735
	Ellip Dist.	9650.091 m	0.009 m	0.006 m	1.498
221 --> 223 (PV65)	Az.	239°47'26"	0.100 sec	-0.042 sec	-0.548
	ΔHt.	-34.024 m	0.011 m	0.012 m	1.711
	Ellip Dist.	15065.328 m	0.007 m	0.003 m	0.518
BASE --> 338 (PV81)	Az.	147°44'42"	0.052 sec	0.006 sec	0.157
	ΔHt.	-42.880 m	0.014 m	0.027 m	1.708
	Ellip Dist.	26915.261 m	0.007 m	0.005 m	1.020
BASE --> BASE2 (PV75)	Az.	277°26'21"	0.042 sec	-0.119 sec	-1.689
	ΔHt.	81.182 m	0.006 m	-0.010 m	-1.210
	Ellip Dist.	15540.468 m	0.003 m	0.003 m	0.542
BASE --> 341 (PV52)	Az.	167°41'08"	0.025 sec	0.021 sec	1.022
	ΔHt.	158.025 m	0.013 m	-0.019 m	-1.680

	Ellip Dist.	49527.185 m	0.007 m	0.003 m	0.573
341 --> 107 (PV55)	Az.	271°58'24"	0.165 sec	0.058 sec	0.521
	ΔHt.	-52.101 m	0.012 m	-0.008 m	-1.608
	Ellip Dist.	9422.048 m	0.007 m	0.008 m	1.665
BASE --> 222 (PV8)	Az.	64°19'20"	0.040 sec	-0.004 sec	-0.144
	ΔHt.	67.341 m	0.012 m	0.011 m	1.413
	Ellip Dist.	39418.220 m	0.007 m	0.008 m	1.640
BASE --> 333 (PV7)	Az.	23°00'15"	0.035 sec	0.022 sec	0.823
	ΔHt.	-74.248 m	0.014 m	0.029 m	1.639
	Ellip Dist.	37966.395 m	0.007 m	0.005 m	1.012
BASE2 --> 215 (PV126)	Az.	231°19'14"	0.091 sec	-0.013 sec	-0.290
	ΔHt.	-21.859 m	0.022 m	0.005 m	0.425
	Ellip Dist.	22789.332 m	0.008 m	0.007 m	1.632
221 --> 232 (PV48)	Az.	295°07'54"	0.040 sec	0.005 sec	0.205
	ΔHt.	-45.249 m	0.013 m	0.013 m	1.592
	Ellip Dist.	38977.503 m	0.007 m	-0.004 m	-0.863
BASE --> 334 (PV31)	Az.	41°17'20"	0.029 sec	0.005 sec	0.226
	ΔHt.	94.115 m	0.012 m	0.022 m	1.573
	Ellip Dist.	43823.453 m	0.006 m	0.002 m	0.418
BASE --> 212 (PV93)	Az.	284°51'12"	0.034 sec	-0.008 sec	-0.318
	ΔHt.	-31.600 m	0.014 m	-0.001 m	-0.075
	Ellip Dist.	41082.264 m	0.006 m	-0.008 m	-1.562
340 --> 225 (PV10)	Az.	283°12'49"	0.122 sec	0.052 sec	0.612
	ΔHt.	21.313 m	0.020 m	-0.008 m	-0.421
	Ellip Dist.	13599.222 m	0.007 m	0.007 m	1.528
BASE --> BASE2 (PV118)	Az.	277°26'21"	0.042 sec	0.106 sec	1.492
	ΔHt.	81.182 m	0.006 m	-0.001 m	-0.109
	Ellip Dist.	15540.468 m	0.003 m	0.003 m	0.578
221 --> 219 (PV15)	Az.	180°11'47"	0.062 sec	0.047 sec	0.963
	ΔHt.	-52.652 m	0.011 m	-0.014 m	-1.478

	Ellip Dist.	20089.159 m	0.007 m	0.005 m	1.022
BASE --> 336 (PV143)	Az.	217°43'36"	0.031 sec	0.008 sec	0.386
	ΔHt.	137.835 m	0.016 m	0.027 m	1.467
	Ellip Dist.	50578.082 m	0.008 m	-0.010 m	-1.448
BASE --> 215 (PV131)	Az.	249°52'12"	0.059 sec	0.020 sec	0.656
	ΔHt.	59.322 m	0.022 m	-0.004 m	-0.375
	Ellip Dist.	35400.504 m	0.008 m	-0.006 m	-1.446
BASE --> 107 (PV58)	Az.	178°38'05"	0.024 sec	0.002 sec	0.115
	ΔHt.	105.924 m	0.012 m	-0.006 m	-0.492
	Ellip Dist.	48093.814 m	0.006 m	0.007 m	1.404
BASE2 --> 105 (PV136)	Az.	197°57'08"	0.043 sec	0.005 sec	0.167
	ΔHt.	-91.001 m	0.011 m	-0.003 m	-0.494
	Ellip Dist.	35267.928 m	0.008 m	0.007 m	1.403
104 --> BASE2 (PV125)	Az.	43°03'35"	0.034 sec	-0.001 sec	-0.031
	ΔHt.	11.144 m	0.016 m	0.002 m	0.200
	Ellip Dist.	45244.859 m	0.008 m	0.006 m	1.350
221 --> 222 (PV22)	Az.	85°13'02"	0.064 sec	0.009 sec	0.213
	ΔHt.	39.421 m	0.012 m	-0.009 m	-1.341
	Ellip Dist.	24354.856 m	0.007 m	-0.001 m	-0.287
340 --> 101 (PV24)	Az.	352°27'23"	0.048 sec	0.002 sec	0.057
	ΔHt.	5.164 m	0.012 m	0.008 m	1.317
	Ellip Dist.	29675.152 m	0.007 m	-0.001 m	-0.287
230 --> 217 (PV84)	Az.	304°58'57"	0.102 sec	0.012 sec	0.171
	ΔHt.	-17.644 m	0.010 m	-0.005 m	-0.840
	Ellip Dist.	14567.476 m	0.007 m	0.006 m	1.273
BASE --> 216 (PV113)	Az.	285°26'57"	0.048 sec	-0.049 sec	-1.269
	ΔHt.	36.658 m	0.011 m	-0.005 m	-0.466
	Ellip Dist.	26415.293 m	0.006 m	-0.003 m	-0.585
101 --> 222 (PV27)	Az.	234°51'45"	0.191 sec	0.018 sec	0.165
	ΔHt.	50.373 m	0.013 m	0.001 m	0.088

	Ellip Dist.	8697.984 m	0.008 m	0.006 m	1.264
BASE --> 337 (PV83)	Az.	207°07'07"	0.069 sec	-0.009 sec	-0.196
	ΔHt.	81.572 m	0.018 m	-0.014 m	-0.664
	Ellip Dist.	21823.906 m	0.008 m	0.006 m	1.254
BASE --> 103 (PV145)	Az.	219°12'58"	0.033 sec	0.021 sec	1.247
	ΔHt.	136.727 m	0.040 m	0.002 m	0.105
	Ellip Dist.	59459.619 m	0.011 m	-0.002 m	-0.365
104 --> 343 (PV123)	Az.	203°10'58"	0.106 sec	-0.007 sec	-0.131
	ΔHt.	16.061 m	0.026 m	0.007 m	0.607
	Ellip Dist.	16434.953 m	0.009 m	0.005 m	1.203
220 --> 107 (PV56)	Az.	173°45'43"	0.020 sec	-0.001 sec	-0.090
	ΔHt.	33.233 m	0.014 m	0.011 m	0.925
	Ellip Dist.	64318.832 m	0.007 m	-0.007 m	-1.203
BASE --> 342 (PV61)	Az.	197°23'28"	0.032 sec	0.008 sec	0.404
	ΔHt.	92.405 m	0.022 m	-0.012 m	-0.917
	Ellip Dist.	48022.032 m	0.009 m	0.006 m	1.199
BASE2 --> 209 (PV106)	Az.	319°45'38"	0.043 sec	0.026 sec	0.754
	ΔHt.	-146.068 m	0.011 m	0.000 m	-0.008
	Ellip Dist.	30917.377 m	0.006 m	0.006 m	1.176
221 --> 342 (PV60)	Az.	202°56'44"	0.024 sec	-0.010 sec	-0.571
	ΔHt.	64.485 m	0.022 m	0.014 m	0.796
	Ellip Dist.	66001.608 m	0.009 m	-0.010 m	-1.170
BASE --> 106 (PV54)	Az.	184°23'54"	0.049 sec	0.024 sec	0.763
	ΔHt.	149.802 m	0.010 m	-0.009 m	-1.161
	Ellip Dist.	30454.676 m	0.008 m	0.005 m	0.950
BASE2 --> 230 (PV86)	Az.	135°48'24"	0.049 sec	-0.053 sec	-1.156
	ΔHt.	19.372 m	0.009 m	0.003 m	0.295
	Ellip Dist.	22570.821 m	0.005 m	-0.004 m	-0.872
221 --> 341 (PV51)	Az.	180°44'27"	0.020 sec	-0.018 sec	-0.975
	ΔHt.	130.106 m	0.013 m	0.022 m	1.156

	Ellip Dist.	63393.900 m	0.007 m	-0.007 m	-1.023
BASE2 --> 103 (PV144)	Az.	204°36'59"	0.036 sec	-0.020 sec	-1.153
	ΔHt.	55.545 m	0.040 m	-0.003 m	-0.201
	Ellip Dist.	52950.252 m	0.011 m	0.004 m	0.695
231 --> 232 (PV70)	Az.	338°30'40"	0.055 sec	-0.011 sec	-0.302
	ΔHt.	-43.750 m	0.013 m	0.003 m	0.284
	Ellip Dist.	27885.404 m	0.008 m	0.005 m	1.149
216 --> 231 (PV108)	Az.	97°14'51"	0.120 sec	0.070 sec	0.725
	ΔHt.	-10.237 m	0.011 m	-0.009 m	-1.095
	Ellip Dist.	11652.532 m	0.006 m	0.006 m	1.081
BASE --> 214 (PV114)	Az.	266°51'20"	0.059 sec	0.031 sec	1.092
	ΔHt.	18.545 m	0.034 m	-0.001 m	-0.066
	Ellip Dist.	32322.101 m	0.009 m	0.000 m	0.049
BASE2 --> 211 (PV120)	Az.	268°08'03"	0.061 sec	-0.026 sec	-1.083
	ΔHt.	-143.127 m	0.025 m	-0.003 m	-0.272
	Ellip Dist.	37331.330 m	0.009 m	0.000 m	-0.087
BASE --> 101 (PV25)	Az.	62°32'25"	0.027 sec	0.002 sec	0.115
	ΔHt.	16.968 m	0.012 m	0.015 m	1.082
	Ellip Dist.	48010.346 m	0.006 m	0.001 m	0.198
231 --> 220 (PV71)	Az.	38°00'39"	0.096 sec	0.035 sec	0.435
	ΔHt.	46.271 m	0.011 m	-0.011 m	-0.861
	Ellip Dist.	13159.849 m	0.006 m	0.005 m	1.078
BASE --> 211 (PV115)	Az.	270°58'24"	0.043 sec	0.029 sec	1.078
	ΔHt.	-61.946 m	0.025 m	0.004 m	0.243
	Ellip Dist.	52731.915 m	0.009 m	0.000 m	0.074
214 --> BASE2 (PV119)	Az.	77°01'51"	0.111 sec	-0.061 sec	-1.077
	ΔHt.	62.637 m	0.034 m	-0.001 m	-0.067
	Ellip Dist.	17283.332 m	0.009 m	0.001 m	0.153
BASE2 --> 217 (PV78)	Az.	154°21'08"	0.156 sec	-0.133 sec	-1.064
	ΔHt.	1.727 m	0.010 m	0.007 m	0.885

	Ellip Dist.	8722.955 m	0.007 m	0.003 m	0.478
BASE --> 229 (PV77)	Az.	243°19'46"	0.058 sec	-0.050 sec	-1.063
	ΔHt.	73.531 m	0.011 m	-0.006 m	-0.815
	Ellip Dist.	23535.596 m	0.006 m	0.005 m	0.891
BASE --> 343 (PV132)	Az.	229°13'00"	0.024 sec	0.009 sec	0.499
	ΔHt.	86.100 m	0.026 m	0.007 m	0.259
	Ellip Dist.	70199.263 m	0.009 m	-0.007 m	-1.063
219 --> 334 (PV29)	Az.	25°03'44"	0.036 sec	-0.001 sec	-0.034
	ΔHt.	118.848 m	0.014 m	0.000 m	-0.033
	Ellip Dist.	41928.642 m	0.008 m	-0.007 m	-1.060
BASE --> 228 (PV116)	Az.	282°39'16"	0.032 sec	0.017 sec	1.054
	ΔHt.	-49.024 m	0.031 m	-0.007 m	-0.347
	Ellip Dist.	57769.143 m	0.009 m	0.001 m	0.163
BASE2 --> 228 (PV121)	Az.	284°24'53"	0.043 sec	-0.021 sec	-1.034
	ΔHt.	-130.206 m	0.031 m	0.004 m	0.343
	Ellip Dist.	42316.589 m	0.009 m	-0.001 m	-0.217
335 --> BASE2 (PV138)	Az.	45°17'41"	0.045 sec	-0.003 sec	-0.116
	ΔHt.	49.245 m	0.016 m	-0.014 m	-0.985
	Ellip Dist.	34279.677 m	0.008 m	0.005 m	1.033
BASE --> 226 (PV134)	Az.	79°18'28"	0.516 sec	-0.311 sec	-1.029
	ΔHt.	-12.596 m	0.011 m	-0.004 m	-0.852
	Ellip Dist.	3087.714 m	0.008 m	0.003 m	0.556
BASE2 --> 212 (PV92)	Az.	289°10'03"	0.055 sec	0.044 sec	1.026
	ΔHt.	-112.782 m	0.014 m	0.004 m	0.247
	Ellip Dist.	25749.925 m	0.006 m	0.001 m	0.168
BASE2 --> 102 (PV124)	Az.	249°32'19"	0.048 sec	-0.019 sec	-0.884
	ΔHt.	-53.145 m	0.032 m	0.005 m	0.443
	Ellip Dist.	38642.171 m	0.009 m	0.004 m	1.024
334 --> 333 (PV32)	Az.	278°26'47"	0.109 sec	-0.018 sec	-0.253
	ΔHt.	-168.363 m	0.014 m	0.002 m	0.284

	Ellip Dist.	14223.696 m	0.007 m	0.005 m	1.019
220 --> 341 (PV50)	Az.	165°40'21"	0.020 sec	0.015 sec	0.995
	ΔHt.	85.334 m	0.014 m	-0.004 m	-0.284
	Ellip Dist.	66298.124 m	0.008 m	-0.005 m	-0.764
BASE2 --> 226 (PV135)	Az.	94°18'34"	0.087 sec	0.059 sec	0.995
	ΔHt.	-93.777 m	0.011 m	0.003 m	0.434
	Ellip Dist.	18499.835 m	0.008 m	-0.001 m	-0.146
209 --> 227 (PV102)	Az.	142°53'47"	0.203 sec	0.019 sec	0.135
	ΔHt.	108.169 m	0.012 m	0.003 m	0.556
	Ellip Dist.	7063.070 m	0.007 m	0.005 m	0.975
BASE --> 102 (PV129)	Az.	257°33'12"	0.035 sec	0.018 sec	0.965
	ΔHt.	28.037 m	0.032 m	-0.014 m	-0.606
	Ellip Dist.	52892.741 m	0.009 m	-0.006 m	-0.928
BASE --> 208 (PV90)	Az.	321°19'25"	0.031 sec	-0.017 sec	-0.830
	ΔHt.	-19.527 m	0.010 m	-0.003 m	-0.447
	Ellip Dist.	50214.045 m	0.008 m	-0.006 m	-0.962
221 --> 225 (PV19)	Az.	131°01'26"	0.051 sec	-0.003 sec	-0.075
	ΔHt.	5.197 m	0.019 m	-0.017 m	-0.958
	Ellip Dist.	29390.461 m	0.007 m	0.000 m	0.010
216 --> 338 (PV111)	Az.	126°33'11"	0.033 sec	0.020 sec	0.695
	ΔHt.	-79.537 m	0.016 m	-0.012 m	-0.939
	Ellip Dist.	49739.157 m	0.008 m	-0.003 m	-0.420
BASE --> 210 (PV117)	Az.	293°48'22"	0.033 sec	0.010 sec	0.558
	ΔHt.	-63.591 m	0.028 m	-0.016 m	-0.929
	Ellip Dist.	60583.223 m	0.009 m	0.002 m	0.371
BASE --> 227 (PV98)	Az.	302°45'35"	0.032 sec	-0.012 sec	-0.404
	ΔHt.	43.283 m	0.011 m	0.009 m	0.552
	Ellip Dist.	36973.332 m	0.006 m	-0.005 m	-0.910
230 --> 208 (PV88)	Az.	329°20'45"	0.026 sec	0.006 sec	0.358
	ΔHt.	-120.081 m	0.012 m	0.001 m	0.139

	Ellip Dist.	62092.608 m	0.009 m	-0.005 m	-0.908
BASE2 --> 210 (PV122)	Az.	299°07'50"	0.043 sec	-0.011 sec	-0.550
	ΔHt.	-144.773 m	0.028 m	0.011 m	0.902
	Ellip Dist.	45881.971 m	0.009 m	-0.001 m	-0.365
BASE --> 209 (PV107)	Az.	306°00'20"	0.031 sec	-0.010 sec	-0.385
	ΔHt.	-64.886 m	0.011 m	-0.006 m	-0.652
	Ellip Dist.	43659.675 m	0.006 m	-0.005 m	-0.871
BASE2 --> 343 (PV127)	Az.	218°06'18"	0.027 sec	0.005 sec	0.315
	ΔHt.	4.918 m	0.026 m	-0.015 m	-0.863
	Ellip Dist.	60957.358 m	0.009 m	-0.001 m	-0.107
BASE2 --> 336 (PV141)	Az.	200°08'37"	0.034 sec	0.001 sec	0.031
	ΔHt.	56.653 m	0.016 m	0.012 m	0.844
	Ellip Dist.	44797.522 m	0.008 m	0.000 m	-0.071
341 --> 223 (PV63)	Az.	347°39'39"	0.026 sec	0.017 sec	0.836
	ΔHt.	-164.130 m	0.013 m	0.004 m	0.414
	Ellip Dist.	57126.092 m	0.009 m	-0.001 m	-0.087
227 --> 217 (PV95)	Az.	142°46'11"	0.046 sec	0.000 sec	0.009
	ΔHt.	39.626 m	0.011 m	0.005 m	0.836
	Ellip Dist.	32357.235 m	0.007 m	0.001 m	0.246
209 --> 229 (PV105)	Az.	158°07'37"	0.041 sec	-0.023 sec	-0.456
	ΔHt.	138.416 m	0.014 m	-0.025 m	-0.820
	Ellip Dist.	38945.417 m	0.008 m	-0.008 m	-0.741
221 --> 340 (PV17)	Az.	122°12'27"	0.030 sec	0.010 sec	0.432
	ΔHt.	-16.116 m	0.012 m	-0.006 m	-0.744
	Ellip Dist.	41874.730 m	0.006 m	-0.004 m	-0.812
BASE --> 217 (PV79)	Az.	243°18'06"	0.109 sec	-0.035 sec	-0.387
	ΔHt.	82.909 m	0.010 m	-0.007 m	-0.811
	Ellip Dist.	13045.868 m	0.007 m	0.004 m	0.683
BASE2 --> 229 (PV76)	Az.	203°56'00"	0.094 sec	0.035 sec	0.444
	ΔHt.	-7.651 m	0.011 m	0.007 m	0.798

	Ellip Dist.	13775.547 m	0.007 m	0.000 m	-0.086
230 --> 227 (PV94)	Az.	317°29'13"	0.027 sec	-0.001 sec	-0.068
	ΔHt.	-57.270 m	0.012 m	0.003 m	0.194
	Ellip Dist.	46425.063 m	0.006 m	-0.004 m	-0.792
BASE --> 105 (PV133)	Az.	219°55'28"	0.038 sec	-0.004 sec	-0.181
	ΔHt.	-9.819 m	0.011 m	-0.005 m	-0.761
	Ellip Dist.	41087.724 m	0.008 m	-0.001 m	-0.107
209 --> 230 (PV103)	Az.	137°53'37"	0.027 sec	-0.008 sec	-0.370
	ΔHt.	165.439 m	0.012 m	-0.006 m	-0.721
	Ellip Dist.	53457.138 m	0.007 m	-0.004 m	-0.751
212 --> 337 (PV91)	Az.	134°47'36"	0.040 sec	-0.009 sec	-0.404
	ΔHt.	113.173 m	0.015 m	-0.001 m	-0.142
	Ellip Dist.	42226.649 m	0.008 m	-0.003 m	-0.744
219 --> 333 (PV14)	Az.	5°15'37"	0.037 sec	0.018 sec	0.736
	ΔHt.	-49.515 m	0.013 m	0.001 m	0.287
	Ellip Dist.	40196.031 m	0.008 m	-0.003 m	-0.709
334 --> 224 (PV30)	Az.	202°34'02"	0.055 sec	-0.002 sec	-0.063
	ΔHt.	-71.116 m	0.012 m	-0.004 m	-0.734
	Ellip Dist.	30235.073 m	0.009 m	0.003 m	0.657
BASE2 --> 337 (PV82)	Az.	165°33'15"	0.068 sec	-0.032 sec	-0.732
	ΔHt.	0.391 m	0.018 m	0.010 m	0.620
	Ellip Dist.	22121.529 m	0.008 m	-0.001 m	-0.283
221 --> 339 (PV33)	Az.	79°31'29"	0.037 sec	-0.005 sec	-0.235
	ΔHt.	-80.349 m	0.018 m	-0.008 m	-0.696
	Ellip Dist.	42177.546 m	0.008 m	-0.001 m	-0.235
340 --> 339 (PV34)	Az.	11°44'41"	0.052 sec	0.020 sec	0.693
	ΔHt.	-64.233 m	0.018 m	0.006 m	0.599
	Ellip Dist.	30589.765 m	0.008 m	-0.001 m	-0.337
BASE --> 104 (PV130)	Az.	236°31'06"	0.028 sec	-0.006 sec	-0.347
	ΔHt.	70.038 m	0.016 m	0.007 m	0.683

	Ellip Dist.	55827.584 m	0.008 m	-0.002 m	-0.488
230 --> 229 (PV85)	Az.	279°43'03"	0.069 sec	0.032 sec	0.655
	ΔHt.	-27.023 m	0.011 m	0.002 m	0.235
	Ellip Dist.	21622.502 m	0.007 m	0.001 m	0.123
BASE --> 335 (PV140)	Az.	241°13'25"	0.034 sec	0.006 sec	0.291
	ΔHt.	31.937 m	0.016 m	-0.004 m	-0.229
	Ellip Dist.	45565.213 m	0.008 m	-0.003 m	-0.634
101 --> 225 (PV26)	Az.	199°30'47"	0.057 sec	-0.029 sec	-0.592
	ΔHt.	16.149 m	0.019 m	-0.003 m	-0.240
	Ellip Dist.	27919.579 m	0.008 m	0.004 m	0.627
335 --> 226 (PV139)	Az.	61°57'47"	0.037 sec	0.001 sec	0.064
	ΔHt.	-44.532 m	0.015 m	0.003 m	0.626
	Ellip Dist.	48509.866 m	0.009 m	-0.001 m	-0.224
BASE --> 213 (PV45)	Az.	317°33'06"	0.113 sec	0.073 sec	0.261
	ΔHt.	-68.017 m	0.028 m	-0.052 m	-0.543
	Ellip Dist.	28703.004 m	0.019 m	-0.047 m	-0.595
227 --> 229 (PV96)	Az.	161°28'28"	0.045 sec	-0.017 sec	-0.515
	ΔHt.	30.247 m	0.013 m	0.002 m	0.188
	Ellip Dist.	32183.961 m	0.007 m	0.002 m	0.365
107 --> 223 (PV62)	Az.	357°01'41"	0.026 sec	-0.001 sec	-0.034
	ΔHt.	-112.029 m	0.014 m	0.009 m	0.513
	Ellip Dist.	55552.192 m	0.008 m	0.002 m	0.206
231 --> 107 (PV68)	Az.	164°10'26"	0.023 sec	0.003 sec	0.156
	ΔHt.	79.504 m	0.012 m	-0.007 m	-0.411
	Ellip Dist.	55669.869 m	0.007 m	0.001 m	0.187
BASE --> 339 (PV35)	Az.	66°39'25"	0.027 sec	-0.007 sec	-0.356
	ΔHt.	-52.429 m	0.018 m	0.002 m	0.104
	Ellip Dist.	57418.823 m	0.008 m	-0.001 m	-0.186
231 --> 213 (PV72)	Az.	340°37'51"	0.177 sec	-0.050 sec	-0.320
	ΔHt.	-94.437 m	0.028 m	-0.006 m	-0.235

	Ellip Dist.	16589.605 m	0.020 m	-0.004 m	-0.183
231 --> 342 (PV67)	Az.	180°21'35"	0.030 sec	0.005 sec	0.281
	ΔHt.	65.984 m	0.022 m	0.001 m	0.038
	Ellip Dist.	51344.399 m	0.010 m	-0.002 m	-0.246
219 --> 218 (PV13)	Az.	209°21'50"	0.215 sec	0.019 sec	0.140
	ΔHt.	103.852 m	0.013 m	-0.001 m	-0.199
	Ellip Dist.	8308.032 m	0.010 m	0.000 m	-0.056
221 --> 213 (PV44)	Az.	281°30'47"	0.122 sec	0.003 sec	0.040
	ΔHt.	-95.937 m	0.028 m	-0.006 m	-0.118
	Ellip Dist.	31248.334 m	0.016 m	-0.009 m	-0.191

Covariance Terms

From Point	To Point		Components	A-posteriori Error	Horiz. Precision (Ratio)	3D Precision (Ratio)
101	221	Az.	257°35'46"	0.072 sec	1 : 2993889	1 : 2991851
		ΔHt.	10.947 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	32144.033 m	0.011 m		
105	336	Az.	208°04'14"	0.191 sec	1 : 1040198	1 : 1041036
		ΔHt.	147.654 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	9650.091 m	0.009 m		
106	221	Az.	16°39'31"	0.070 sec	1 : 2976511	1 : 2974835
		ΔHt.	-121.890 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	47360.587 m	0.016 m		
106	231	Az.	342°06'04"	0.067 sec	1 : 3133645	1 : 3131714
		ΔHt.	-123.393 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	37700.742 m	0.012 m		
107	221	Az.	9°07'11"	0.066 sec	1 : 3234541	1 : 3232194
		ΔHt.	-78.018 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	63888.153 m	0.020 m		
107	223	Az.	357°01'41"	0.069 sec	1 : 3009154	1 : 3007221
		ΔHt.	-112.043 m	0.014 m		
		ΔElev.	?	?		

		Ellip Dist.	55552.189 m	0.018 m		
107	231	Az.	344°19'20"	0.060 sec	1 : 3531987	1 : 3530094
		ΔHt.	-79.520 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	55669.865 m	0.016 m		
212	216	Az.	103°23'13"	0.132 sec	1 : 1663959	1 : 1662904
		ΔHt.	68.262 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	14670.972 m	0.009 m		
213	221	Az.	101°12'31"	0.138 sec	1 : 1852496	1 : 1841129
		ΔHt.	95.945 m	0.028 m		
		ΔElev.	?	?		
		Ellip Dist.	31248.332 m	0.017 m		
213	231	Az.	160°34'34"	0.192 sec	1 : 807363	1 : 807233
		ΔHt.	94.443 m	0.028 m		
		ΔElev.	?	?		
		Ellip Dist.	16589.604 m	0.021 m		
216	231	Az.	97°14'51"	0.159 sec	1 : 1360300	1 : 1359712
		ΔHt.	-10.234 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	11652.532 m	0.009 m		
217	227	Az.	322°57'48"	0.078 sec	1 : 2711239	1 : 2708799
		ΔHt.	-39.636 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	32357.233 m	0.012 m		
217	230	Az.	124°51'54"	0.120 sec	1 : 1770352	1 : 1768241
		ΔHt.	17.649 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	14567.475 m	0.008 m		
218	219	Az.	29°19'26"	0.223 sec	1 : 836498	1 : 842100
		ΔHt.	-103.853 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	8308.032 m	0.010 m		
218	221	Az.	8°34'44"	0.083 sec	1 : 2222092	1 : 2224125
		ΔHt.	-51.206 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	27641.847 m	0.012 m		
219	221	Az.	0°11'45"	0.087 sec	1 : 2312725	1 : 2311333
		ΔHt.	52.647 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	20089.158 m	0.009 m		
219	334	Az.	25°03'45"	0.072 sec	1 : 2906743	1 : 2905408

		ΔHt.	118.842 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	41928.640 m	0.014 m		
220	107	Az.	173°45'43"	0.065 sec	1 : 3215580	1 : 3213138
		ΔHt.	33.250 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	64318.828 m	0.020 m		
220	221	Az.	92°50'24"	0.093 sec	1 : 2357237	1 : 2355988
		ΔHt.	-44.768 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	17060.271 m	0.007 m		
220	223	Az.	154°28'15"	0.163 sec	1 : 1159725	1 : 1157571
		ΔHt.	-78.793 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	9379.794 m	0.008 m		
220	231	Az.	218°05'29"	0.106 sec	1 : 1909443	1 : 1910690
		ΔHt.	-46.270 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	13159.848 m	0.007 m		
220	341	Az.	165°40'21"	0.064 sec	1 : 3245581	1 : 3243013
		ΔHt.	85.353 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	66298.120 m	0.020 m		
222	101	Az.	54°47'31"	0.200 sec	1 : 1068496	1 : 1069509
		ΔHt.	-50.372 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	8697.984 m	0.008 m		
222	221	Az.	265°27'30"	0.087 sec	1 : 2502654	1 : 2500216
		ΔHt.	-39.426 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	24354.855 m	0.010 m		
223	221	Az.	59°39'41"	0.119 sec	1 : 1878391	1 : 1881879
		ΔHt.	34.025 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	15065.327 m	0.008 m		
224	221	Az.	328°31'37"	0.142 sec	1 : 1390033	1 : 1387190
		ΔHt.	4.916 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	11807.444 m	0.008 m		
224	334	Az.	22°27'08"	0.083 sec	1 : 2462392	1 : 2463084
		ΔHt.	71.111 m	0.012 m		
		ΔElev.	?	?		

		Ellip Dist.	30235.071 m	0.012 m		
225	101	Az.	19°25'15"	0.085 sec	1 : 2401031	1 : 2400573
		ΔHt.	-16.153 m	0.019 m		
		ΔElev.	?	?		
		Ellip Dist.	27919.577 m	0.012 m		
225	221	Az.	311°14'35"	0.078 sec	1 : 2786762	1 : 2782403
		ΔHt.	-5.206 m	0.019 m		
		ΔElev.	?	?		
		Ellip Dist.	29390.460 m	0.011 m		
225	340	Az.	103°04'59"	0.137 sec	1 : 1629227	1 : 1629538
		ΔHt.	-21.309 m	0.020 m		
		ΔElev.	?	?		
		Ellip Dist.	13599.221 m	0.008 m		
226	335	Az.	242°23'09"	0.073 sec	1 : 2920366	1 : 2919569
		ΔHt.	44.528 m	0.015 m		
		ΔElev.	?	?		
		Ellip Dist.	48509.863 m	0.017 m		
227	209	Az.	322°56'20"	0.213 sec	1 : 974980	1 : 973998
		ΔHt.	-108.172 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	7063.069 m	0.007 m		
229	209	Az.	338°16'14"	0.075 sec	1 : 2782145	1 : 2780102
		ΔHt.	-138.429 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	38945.415 m	0.014 m		
229	227	Az.	341°34'32"	0.077 sec	1 : 2712044	1 : 2709877
		ΔHt.	-30.257 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	32183.959 m	0.012 m		
229	230	Az.	99°30'27"	0.093 sec	1 : 2366715	1 : 2365681
		ΔHt.	27.028 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	21622.501 m	0.009 m		
230	208	Az.	329°20'45"	0.068 sec	1 : 3075593	1 : 3072200
		ΔHt.	-120.101 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	62092.604 m	0.020 m		
230	209	Az.	318°14'50"	0.068 sec	1 : 3134664	1 : 3131934
		ΔHt.	-165.457 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	53457.135 m	0.017 m		
230	227	Az.	317°29'13"	0.068 sec	1 : 3122465	1 : 3119758

		ΔHt.	-57.285 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	46425.060 m	0.015 m		
231	221	Az.	69°12'31"	0.055 sec	1 : 3837284	1 : 3835589
		ΔHt.	1.503 m	0.007 m		
		ΔElev.	?	?		
		Ellip Dist.	26895.973 m	0.007 m		
232	221	Az.	114°46'48"	0.072 sec	1 : 3032046	1 : 3029992
		ΔHt.	45.261 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	38977.501 m	0.013 m		
232	231	Az.	158°24'33"	0.092 sec	1 : 2256526	1 : 2254544
		ΔHt.	43.758 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	27885.402 m	0.012 m		
333	219	Az.	185°17'50"	0.072 sec	1 : 2879066	1 : 2877343
		ΔHt.	49.524 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	40196.028 m	0.014 m		
333	221	Az.	190°19'05"	0.091 sec	1 : 2243971	1 : 2243246
		ΔHt.	102.172 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	20263.056 m	0.009 m		
333	334	Az.	98°18'22"	0.126 sec	1 : 1716476	1 : 1714040
		ΔHt.	168.367 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	14223.695 m	0.008 m		
334	221	Az.	224°51'21"	0.079 sec	1 : 2658922	1 : 2658664
		ΔHt.	-66.195 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	25162.347 m	0.009 m		
337	212	Az.	315°05'18"	0.074 sec	1 : 2889137	1 : 2886145
		ΔHt.	-113.187 m	0.015 m		
		ΔElev.	?	?		
		Ellip Dist.	42226.646 m	0.015 m		
338	216	Az.	306°56'45"	0.072 sec	1 : 2968520	1 : 2965449
		ΔHt.	79.521 m	0.016 m		
		ΔElev.	?	?		
		Ellip Dist.	49739.154 m	0.017 m		
338	231	Az.	315°08'47"	0.060 sec	1 : 3582567	1 : 3579510
		ΔHt.	69.287 m	0.014 m		
		ΔElev.	?	?		

		Ellip Dist.	39986.737 m	0.011 m		
339	221	Az.	259°56'15"	0.071 sec	1 : 3001615	1 : 3000236
		ΔHt.	80.342 m	0.018 m		
		ΔElev.	?	?		
		Ellip Dist.	42177.544 m	0.014 m		
340	101	Az.	352°27'23"	0.079 sec	1 : 2636426	1 : 2633680
		ΔHt.	5.156 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	29675.150 m	0.011 m		
340	221	Az.	302°33'27"	0.067 sec	1 : 3207639	1 : 3204117
		ΔHt.	16.103 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	41874.728 m	0.013 m		
340	339	Az.	11°44'42"	0.082 sec	1 : 2555099	1 : 2552907
		ΔHt.	-64.239 m	0.018 m		
		ΔElev.	?	?		
		Ellip Dist.	30589.763 m	0.012 m		
341	107	Az.	271°58'24"	0.173 sec	1 : 1350184	1 : 1348771
		ΔHt.	-52.103 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	9422.047 m	0.007 m		
341	221	Az.	0°43'58"	0.066 sec	1 : 3220228	1 : 3218138
		ΔHt.	-130.121 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	63393.896 m	0.020 m		
341	223	Az.	347°39'40"	0.068 sec	1 : 3034782	1 : 3032863
		ΔHt.	-164.146 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	57126.089 m	0.019 m		
342	221	Az.	22°41'38"	0.067 sec	1 : 3080912	1 : 3080701
		ΔHt.	-64.494 m	0.022 m		
		ΔElev.	?	?		
		Ellip Dist.	66001.604 m	0.021 m		
342	231	Az.	0°21'24"	0.066 sec	1 : 3031628	1 : 3030843
		ΔHt.	-65.997 m	0.022 m		
		ΔElev.	?	?		
		Ellip Dist.	51344.396 m	0.017 m		
343	104	Az.	23°07'11"	0.123 sec	1 : 1574253	1 : 1574823
		ΔHt.	-16.064 m	0.026 m		
		ΔElev.	?	?		
		Ellip Dist.	16434.952 m	0.010 m		
BASE	101	Az.	62°32'25"	0.070 sec	1 : 3071720	1 : 3070015

		ΔHt.	16.972 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	48010.343 m	0.016 m		
BASE	102	Az.	257°33'12"	0.071 sec	1 : 2983281	1 : 2981665
		ΔHt.	28.028 m	0.032 m		
		ΔElev.	?	?		
		Ellip Dist.	52892.738 m	0.018 m		
BASE	103	Az.	219°12'59"	0.070 sec	1 : 2924312	1 : 2928353
		ΔHt.	136.730 m	0.040 m		
		ΔElev.	?	?		
		Ellip Dist.	59459.615 m	0.020 m		
BASE	104	Az.	236°31'07"	0.068 sec	1 : 3151596	1 : 3150735
		ΔHt.	70.036 m	0.016 m		
		ΔElev.	?	?		
		Ellip Dist.	55827.580 m	0.018 m		
BASE	105	Az.	219°55'28"	0.073 sec	1 : 2909697	1 : 2909669
		ΔHt.	-9.817 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	41087.721 m	0.014 m		
BASE	106	Az.	184°23'54"	0.081 sec	1 : 2502723	1 : 2501061
		ΔHt.	149.809 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	30454.674 m	0.012 m		
BASE	107	Az.	178°38'05"	0.069 sec	1 : 3027723	1 : 3025269
		ΔHt.	105.936 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	48093.811 m	0.016 m		
BASE	208	Az.	321°19'26"	0.069 sec	1 : 3008034	1 : 3004098
		ΔHt.	-19.544 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	50214.042 m	0.017 m		
BASE	209	Az.	306°00'21"	0.069 sec	1 : 3118782	1 : 3116007
		ΔHt.	-64.900 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	43659.673 m	0.014 m		
BASE	210	Az.	293°48'23"	0.070 sec	1 : 3063352	1 : 3060705
		ΔHt.	-63.609 m	0.028 m		
		ΔElev.	?	?		
		Ellip Dist.	60583.219 m	0.020 m		
BASE	211	Az.	270°58'25"	0.075 sec	1 : 2965790	1 : 2962795
		ΔHt.	-61.957 m	0.025 m		
		ΔElev.	?	?		

		Ellip Dist.	52731.911 m	0.018 m		
BASE	212	Az.	284°51'12"	0.069 sec	1 : 3134271	1 : 3131879
		ΔHt.	-31.612 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	41082.262 m	0.013 m		
BASE	213	Az.	317°33'06"	0.124 sec	1 : 1496663	1 : 1488890
		ΔHt.	-68.027 m	0.028 m		
		ΔElev.	?	?		
		Ellip Dist.	28703.003 m	0.019 m		
BASE	214	Az.	266°51'20"	0.085 sec	1 : 2581398	1 : 2579426
		ΔHt.	18.538 m	0.034 m		
		ΔElev.	?	?		
		Ellip Dist.	32322.099 m	0.013 m		
BASE	215	Az.	249°52'13"	0.085 sec	1 : 2705405	1 : 2702726
		ΔHt.	59.318 m	0.022 m		
		ΔElev.	?	?		
		Ellip Dist.	35400.502 m	0.013 m		
BASE	216	Az.	285°26'57"	0.070 sec	1 : 3067717	1 : 3065172
		ΔHt.	36.650 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	26415.291 m	0.009 m		
BASE	217	Az.	243°18'06"	0.125 sec	1 : 1735450	1 : 1736845
		ΔHt.	82.908 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	13045.867 m	0.008 m		
BASE	218	Az.	149°49'59"	0.135 sec	1 : 1384656	1 : 1381366
		ΔHt.	79.124 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	14267.530 m	0.010 m		
BASE	219	Az.	114°22'09"	0.132 sec	1 : 1667189	1 : 1664724
		ΔHt.	-24.729 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	12327.982 m	0.007 m		
BASE	220	Az.	339°59'05"	0.083 sec	1 : 2450538	1 : 2449078
		ΔHt.	72.686 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	16884.598 m	0.007 m		
BASE	222	Az.	64°19'20"	0.076 sec	1 : 2837127	1 : 2835693
		ΔHt.	67.344 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	39418.218 m	0.014 m		
BASE	223	Az.	346°43'30"	0.179 sec	1 : 1008089	1 : 1007101

		ΔHt.	-6.107 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	7599.833 m	0.008 m		
BASE	224	Az.	74°09'53"	0.116 sec	1 : 1943015	1 : 1943899
		ΔHt.	23.002 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	18142.889 m	0.009 m		
BASE	225	Az.	97°13'45"	0.080 sec	1 : 2726281	1 : 2724997
		ΔHt.	33.125 m	0.019 m		
		ΔElev.	?	?		
		Ellip Dist.	33738.319 m	0.012 m		
BASE	226	Az.	79°18'28"	0.521 sec	1 : 399339	1 : 399703
		ΔHt.	-12.595 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	3087.713 m	0.008 m		
BASE	227	Az.	302°45'35"	0.069 sec	1 : 3102839	1 : 3100357
		ΔHt.	43.272 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	36973.330 m	0.012 m		
BASE	228	Az.	282°39'16"	0.069 sec	1 : 3050129	1 : 3047388
		ΔHt.	-49.039 m	0.031 m		
		ΔElev.	?	?		
		Ellip Dist.	57769.139 m	0.019 m		
BASE	229	Az.	243°19'47"	0.084 sec	1 : 2544242	1 : 2545975
		ΔHt.	73.528 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	23535.594 m	0.009 m		
BASE	230	Az.	178°52'03"	0.098 sec	1 : 2046824	1 : 2045850
		ΔHt.	100.557 m	0.009 m		
		ΔElev.	?	?		
		Ellip Dist.	14215.568 m	0.007 m		
BASE	231	Az.	291°37'58"	0.000 sec	1 : 0	1 : 0
		ΔHt.	26.416 m	0.000 m		
		ΔElev.	?	?		
		Ellip Dist.	14961.788 m	0.000 m		
BASE	232	Az.	322°36'55"	0.066 sec	1 : 3244158	1 : 3241536
		ΔHt.	-17.342 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	39627.769 m	0.012 m		
BASE	333	Az.	23°00'16"	0.072 sec	1 : 2931895	1 : 2930819
		ΔHt.	-74.253 m	0.014 m		
		ΔElev.	?	?		

		Ellip Dist.	37966.392 m	0.013 m		
BASE	334	Az.	41°17'20"	0.070 sec	1 : 3038923	1 : 3037578
		ΔHt.	94.114 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	43823.451 m	0.014 m		
BASE	335	Az.	241°13'25"	0.071 sec	1 : 3008759	1 : 3007999
		ΔHt.	31.933 m	0.016 m		
		ΔElev.	?	?		
		Ellip Dist.	45565.210 m	0.015 m		
BASE	336	Az.	217°43'36"	0.069 sec	1 : 3016429	1 : 3015820
		ΔHt.	137.838 m	0.016 m		
		ΔElev.	?	?		
		Ellip Dist.	50578.079 m	0.017 m		
BASE	337	Az.	207°07'08"	0.092 sec	1 : 2207006	1 : 2208458
		ΔHt.	81.575 m	0.018 m		
		ΔElev.	?	?		
		Ellip Dist.	21823.905 m	0.010 m		
BASE	338	Az.	147°44'42"	0.089 sec	1 : 2391724	1 : 2388909
		ΔHt.	-42.871 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	26915.259 m	0.011 m		
BASE	339	Az.	66°39'25"	0.070 sec	1 : 3036847	1 : 3035457
		ΔHt.	-52.423 m	0.018 m		
		ΔElev.	?	?		
		Ellip Dist.	57418.819 m	0.019 m		
BASE	340	Az.	98°48'55"	0.071 sec	1 : 3051192	1 : 3049235
		ΔHt.	11.816 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	47292.515 m	0.015 m		
BASE	341	Az.	167°41'08"	0.069 sec	1 : 3007285	1 : 3004823
		ΔHt.	158.040 m	0.013 m		
		ΔElev.	?	?		
		Ellip Dist.	49527.182 m	0.016 m		
BASE	342	Az.	197°23'28"	0.070 sec	1 : 2834125	1 : 2834592
		ΔHt.	92.413 m	0.022 m		
		ΔElev.	?	?		
		Ellip Dist.	48022.029 m	0.017 m		
BASE	343	Az.	229°13'00"	0.067 sec	1 : 3176275	1 : 3175986
		ΔHt.	86.099 m	0.026 m		
		ΔElev.	?	?		
		Ellip Dist.	70199.259 m	0.022 m		
BASE	BASE2	Az.	277°26'21"	0.070 sec	1 : 3094329	1 : 3092395

		ΔHt.	81.178 m	0.006 m		
		ΔElev.	?	?		
		Ellip Dist.	15540.467 m	0.005 m		
BASE2	102	Az.	249°32'19"	0.080 sec	1 : 2649079	1 : 2648473
		ΔHt.	-53.150 m	0.032 m		
		ΔElev.	?	?		
		Ellip Dist.	38642.169 m	0.015 m		
BASE2	103	Az.	204°36'59"	0.072 sec	1 : 2782793	1 : 2784686
		ΔHt.	55.552 m	0.040 m		
		ΔElev.	?	?		
		Ellip Dist.	52950.249 m	0.019 m		
BASE2	104	Az.	223°21'53"	0.071 sec	1 : 2971833	1 : 2971536
		ΔHt.	-11.142 m	0.016 m		
		ΔElev.	?	?		
		Ellip Dist.	45244.856 m	0.015 m		
BASE2	105	Az.	197°57'08"	0.076 sec	1 : 2738912	1 : 2738779
		ΔHt.	-90.995 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	35267.925 m	0.013 m		
BASE2	208	Az.	336°36'27"	0.074 sec	1 : 2745370	1 : 2742491
		ΔHt.	-100.722 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	40473.428 m	0.015 m		
BASE2	209	Az.	319°45'38"	0.077 sec	1 : 2754369	1 : 2752029
		ΔHt.	-146.078 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	30917.375 m	0.011 m		
BASE2	210	Az.	299°07'50"	0.077 sec	1 : 2784801	1 : 2782240
		ΔHt.	-144.787 m	0.028 m		
		ΔElev.	?	?		
		Ellip Dist.	45881.968 m	0.016 m		
BASE2	211	Az.	268°08'04"	0.088 sec	1 : 2586274	1 : 2584216
		ΔHt.	-143.135 m	0.025 m		
		ΔElev.	?	?		
		Ellip Dist.	37331.328 m	0.014 m		
BASE2	212	Az.	289°10'03"	0.083 sec	1 : 2614750	1 : 2612640
		ΔHt.	-112.790 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	25749.924 m	0.010 m		
BASE2	214	Az.	257°11'50"	0.129 sec	1 : 1737195	1 : 1733390
		ΔHt.	-62.640 m	0.034 m		
		ΔElev.	?	?		

		Ellip Dist.	17283.331 m	0.010 m		
BASE2	215	Az.	231°19'14"	0.111 sec	1 : 2110835	1 : 2113397
		ΔHt.	-21.860 m	0.022 m		
		ΔElev.	?	?		
		Ellip Dist.	22789.331 m	0.011 m		
BASE2	216	Az.	296°24'28"	0.122 sec	1 : 1742733	1 : 1741572
		ΔHt.	-44.528 m	0.012 m		
		ΔElev.	?	?		
		Ellip Dist.	11237.068 m	0.006 m		
BASE2	217	Az.	154°21'08"	0.166 sec	1 : 1195233	1 : 1194045
		ΔHt.	1.730 m	0.010 m		
		ΔElev.	?	?		
		Ellip Dist.	8722.955 m	0.007 m		
BASE2	226	Az.	94°18'34"	0.106 sec	1 : 2014346	1 : 2014748
		ΔHt.	-93.773 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	18499.834 m	0.009 m		
BASE2	227	Az.	318°46'28"	0.081 sec	1 : 2619245	1 : 2616915
		ΔHt.	-37.906 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	23869.800 m	0.009 m		
BASE2	228	Az.	284°24'54"	0.077 sec	1 : 2733071	1 : 2730905
		ΔHt.	-130.217 m	0.031 m		
		ΔElev.	?	?		
		Ellip Dist.	42316.586 m	0.015 m		
BASE2	229	Az.	203°56'00"	0.113 sec	1 : 1753647	1 : 1754445
		ΔHt.	-7.649 m	0.011 m		
		ΔElev.	?	?		
		Ellip Dist.	13775.546 m	0.008 m		
BASE2	230	Az.	135°48'24"	0.078 sec	1 : 2728710	1 : 2726071
		ΔHt.	19.379 m	0.009 m		
		ΔElev.	?	?		
		Ellip Dist.	22570.820 m	0.008 m		
BASE2	231	Az.	23°02'52"	0.275 sec	1 : 734438	1 : 735090
		ΔHt.	-54.762 m	0.006 m		
		ΔElev.	?	?		
		Ellip Dist.	3811.902 m	0.005 m		
BASE2	335	Az.	225°32'07"	0.077 sec	1 : 2701928	1 : 2702057
		ΔHt.	-49.245 m	0.016 m		
		ΔElev.	?	?		
		Ellip Dist.	34279.675 m	0.013 m		
BASE2	336	Az.	200°08'38"	0.071 sec	1 : 2911285	1 : 2910228

		ΔHt.	56.660 m	0.016 m		
		ΔElev.	?	?		
		Ellip Dist.	44797.520 m	0.015 m		
BASE2	337	Az.	165°33'16"	0.091 sec	1 : 2231246	1 : 2229575
		ΔHt.	0.397 m	0.018 m		
		ΔElev.	?	?		
		Ellip Dist.	22121.528 m	0.010 m		
BASE2	338	Az.	129°36'37"	0.078 sec	1 : 2765814	1 : 2763253
		ΔHt.	-124.049 m	0.014 m		
		ΔElev.	?	?		
		Ellip Dist.	38732.840 m	0.014 m		
BASE2	343	Az.	218°06'18"	0.068 sec	1 : 3062922	1 : 3062590
		ΔHt.	4.921 m	0.026 m		
		ΔElev.	?	?		
		Ellip Dist.	60957.354 m	0.020 m		

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