



# Network Adjustment Report

## Basic Information

Name	Value
Username	ACER-JFV
Project Datum	Custom
Project Name	MARGIA181124
Distance Units	Meter
Height Units	Meter

## 1 Adjustment Settings

### Basic Parameters

Name	Value
Ellipsoid Name	WGS84
Major Axis(m)	6378137.0000
Flattening Reciprocal(1/f)	298.257223563

### Projection Parameters

Name	Value
Projection Method	UTM Projection
Projection Height	0.0000
Central Meridian(L0)	057°00'00.00000"W

## 2 Adjustment Statistics

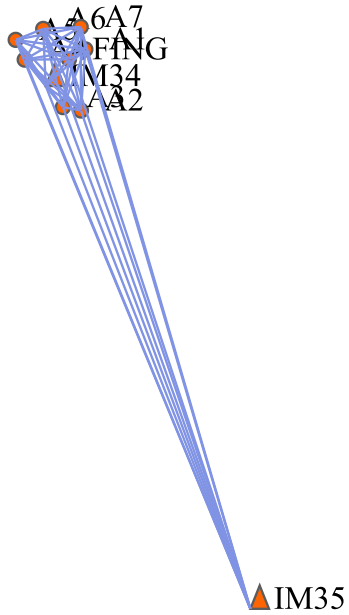
### Statistical Summary

Name	Value
Network Reference Factor	9.71910217164632
Chi Square Test	Pass
Chi Square Value	112.98507
Range of Chi Square Test	83.29911 ~ 142.67103
Ratio of Unit Weight Standard Error	1.00890
Precision Confidence Level	2 sigma
Horizontal Accuracymm	1.9
Vertical Accuracymm	2.2
Check Result	Conformity

### 3 Control Point

Number Of Points      10  
 Control Point Sum      02

Control Points



### 4 Local 3D Constraint Adjustment

#### 4.1 Translation Parameters

dx(m)	dy(m)	dz(m)	rx(sec)	ry(sec)	rz(sec)	Ratio(PPM)
0.46294	-2.83893	2.91180	0	0	0	0

#### 4.2 Baselines Input in WGS84

Observation ID	Baseline ID	DX(m)	Std.DX (mm)	DY(m)	Std.DY (mm)	DZ(m)	Std.DZ (mm)
B01	IM34->IM35	19.4132 2	0.3	1216.894 42	0.4	-1410.75 657	0.3
B02	IM34->FING	108.630 18	0.3	-24.8730 2	0.3	52.47832	0.3
B03	IM35->FING	89.2185 8	0.5	-1241.76 436	0.5	1463.229 68	0.7
B04	IM34->A1	145.772 24	0.6	16.71606	0.7	102.8949 5	0.4
B05	IM35->A1	126.360 40	0.6	-1200.17 834	0.8	1513.644 25	0.4

B06	FING->A 1	37.1420 0	0.5	41.58813	0.7	50.41585	0.4
B07	IM34->A 2	73.3332 6	0.3	101.6644 3	0.4	-67.4892 5	0.5
B08	IM35->A 2	53.9166 1	0.3	-1115.22 375	0.4	1343.266 47	0.6
B09	FING->A 2	-35.2995 4	0.4	126.5384 6	0.5	-119.964 10	0.7
B10	A1->A2	-72.4411 9	0.4	84.94804	0.6	-170.381 60	0.5
B11	IM34->A 3	26.3082 4	0.2	63.99508	0.3	-57.6053 7	0.3
B12	IM35->A 3	6.89124	0.2	-1152.89 232	0.3	1353.152 83	0.4
B13	FING->A 3	-82.3205 3	0.2	88.86569	0.3	-110.082 79	0.4
B14	A1->A3	-119.463 52	0.2	47.27650	0.3	-160.498 35	0.3
B15	A2->A3	-47.0306 9	0.2	-37.6690 9	0.4	9.88528	0.4
B16	IM34->A 4	-35.5993 2	0.3	-73.6768 4	0.4	77.32100	0.3
B17	IM35->A 4	-55.0128 0	0.3	-1290.56 705	0.5	1488.073 92	0.3
B18	FING->A 4	-144.231 20	0.3	-48.8043 0	0.4	24.84353	0.3
B19	A1->A4	-181.370 73	0.6	-90.3942 8	0.8	-25.5744 8	0.4
B20	A2->A4	-108.929 97	0.3	-175.345 91	0.5	144.8066 5	0.6
B21	A3->A4	-61.9062 1	0.2	-137.675 02	0.3	134.9217 2	0.4
B22	IM34->A 5	-42.3217 1	0.4	-118.456 02	0.4	133.7539 6	0.5
B23	IM35->A 5	-61.7357 1	0.3	-1335.34 242	0.4	1544.508 40	0.5
B24	FING->A 5	-150.953 74	0.3	-93.5806 5	0.4	81.27743	0.4
B25	A1->A5	-188.095 67	0.4	-135.169 03	0.6	30.86195	0.4
B26	A2->A5	-115.654 30	0.6	-220.117 24	0.8	201.2424 9	1.1
B27	A3->A5	-68.6301 9	0.2	-182.447 45	0.3	191.3564 7	0.4
B28	A4->A5	-6.72364	0.3	-44.7753 2	0.4	56.43543	0.5
B29	IM34->A 6	46.6689 2	0.7	-87.7593 3	0.9	162.2584 5	0.5
B30	IM35->A 6	27.2541 5	0.7	-1304.65 030	1.0	1573.007 99	0.5
B31	FING->A 6	-61.9648 5	0.6	-62.8811 9	0.8	109.7812 0	0.4
B32	A1->A6	-99.1082 9	0.4	-104.467 36	0.7	59.36611	0.5
B33	A2->A6	-26.5690 4	3.4	-189.591 62	24.3	229.7088 9	27.4
B34	A3->A6	20.3619 2	0.2	-151.753 80	0.4	219.8569 9	0.4

B35	A4->A6	82.2659 9	0.8	-14.0777 7	1.1	84.93833	0.6
B36	A5->A6	88.9899 2	0.4	30.69783	0.6	28.50278	0.5
B37	IM34->A 7	154.031 36	0.4	-24.4144 1	0.6	166.2644 4	0.4
B38	IM35->A 7	134.617 04	0.4	-1241.30 474	0.5	1577.017 53	0.4
B39	FING->A 7	45.3983 8	0.5	0.46004	0.6	113.7866 1	0.4
B40	A1->A7	8.25962	0.4	-41.1316 9	0.6	63.37099	0.4
B41	A2->A7	80.6999 1	0.4	-126.078 39	0.6	233.7513 6	0.8
B42	A3->A7	127.721 95	0.3	-88.4073 7	0.4	223.8692 0	0.6
B43	A4->A7	189.629 19	0.5	49.26593	0.6	88.94635	0.4
B44	A5->A7	196.353 96	0.3	94.03939	0.4	32.50919	0.5
B45	A6->A7	107.366 57	0.6	63.33860	1.0	4.00453	0.5

#### 4.3 Adjusted Baselines in WGS84

Style One:

Observation ID	Baseline ID		Observation	Residual	Horizontal Precision (Ratio)	3D Precision (Ratio)
B01	IM34->I M35	<b>Azimuth</b>	158°8'32.43 252"	0°14'11.34 806"	1:999999	1:999999
		<b>ΔEllipsoid Height</b>	-12.1656	0.0008		
		<b>Ellipsoid Dist.</b>	1863.1760	-0.0049		
B02	IM34->F ING	<b>Azimuth</b>	40°29'15.35 781"	0°55'1.63 421"	1:80738	1:52135
		<b>ΔEllipsoid Height</b>	36.4951	-0.0005		
		<b>Ellipsoid Dist.</b>	123.1782	-0.0012		
B03	IM35->F ING	<b>Azimuth</b>	341°14'53.9 0059"	0°3'6.486 48"	1:1318015	1:813155
		<b>ΔEllipsoid Height</b>	48.6607	-0.0029		
		<b>Ellipsoid Dist.</b>	1921.1924	0.0001		
B04	IM34-> A1	<b>Azimuth</b>	46°41'59.55 459"	0°40'16.0 6436"	1:114737	1:64232
		<b>ΔEllipsoid Height</b>	-3.7329	0.0003		
		<b>Ellipsoid Dist.</b>	179.2088	-0.0015		
B05	IM35-> A1	<b>Azimuth</b>	343°4'48.20 080"	0°12'34.11 472"	1:1239532	1:693856
		<b>ΔEllipsoid Height</b>	8.4327	-0.0053		
		<b>Ellipsoid Dist.</b>	1935.8494	-0.0003		

B06	FING-> A1	<b>Azimuth</b>	58°15'51.47 712"	0°30'48.8 9287"	1:35778	1:24131
		<b>ΔEllipsoid Height</b>	-40.2279	-0.0004		
		<b>Ellipsoid Di st.</b>	75.1725	0.0003		
B07	IM34-> A2	<b>Azimuth</b>	124°20'50.0 9984"	0°50'1.05 217"	1:75061	1:47846
		<b>ΔEllipsoid Height</b>	2.8642	-0.0029		
		<b>Ellipsoid Di st.</b>	142.3652	-0.0013		
B08	IM35-> A2	<b>Azimuth</b>	340°44'9.43 529"	0°15'9.64 240"	1:921169	1:587041
		<b>ΔEllipsoid Height</b>	15.0298	0.0017		
		<b>Ellipsoid Di st.</b>	1746.7106	0.0006		
B09	FING-> A2	<b>Azimuth</b>	166°22'53.7 2217"	0°39'50.1 5757"	1:82177	1:53048
		<b>ΔEllipsoid Height</b>	-33.6308	0.0015		
		<b>Ellipsoid Di st.</b>	177.9028	0.0000		
B10	A1->A2	<b>Azimuth</b>	183°37'31.8 8693"	1°22'34.8 6126"	1:93004	1:56649
		<b>ΔEllipsoid Height</b>	6.5971	-0.0008		
		<b>Ellipsoid Di st.</b>	203.7000	-0.0002		
B11	IM34-> A3	<b>Azimuth</b>	140°18'59.1 3926"	1°50'57.4 4079"	1:67629	1:42142
		<b>ΔEllipsoid Height</b>	1.3951	-0.0024		
		<b>Ellipsoid Di st.</b>	90.0306	-0.0020		
B12	IM35-> A3	<b>Azimuth</b>	339°1'34.45 407"	0°8'45.07 255"	1:1335604	1:832126
		<b>ΔEllipsoid Height</b>	13.5607	0.0043		
		<b>Ellipsoid Di st.</b>	1777.7038	0.0001		
B13	FING-> A3	<b>Azimuth</b>	186°47'25.3 4886"	1°43'25.0 5268"	1:99047	1:63072
		<b>ΔEllipsoid Height</b>	-35.1000	-0.0037		
		<b>Ellipsoid Di st.</b>	163.6837	0.0011		
B14	A1->A3	<b>Azimuth</b>	200°46'41.6 7481"	0°1'49.94 085"	1:120786	1:71621
		<b>ΔEllipsoid Height</b>	5.1279	-0.0034		
		<b>Ellipsoid Di st.</b>	205.5882	0.0005		
B15	A2->A3	<b>Azimuth</b>	280°24'33.5 2367"	7°36'37.0 0641"	1:30708	1:19568

		<b>ΔEllipsoid Height</b>	-1.4692	0.0041		
		<b>Ellipsoid Dist.</b>	61.0582	-0.0038		
B16	IM34->A4	<b>Azimuth</b>	320°58'16.8 6994"	2°41'58.7 6715"	1:78193	1:47470
		<b>ΔEllipsoid Height</b>	-10.3274	0.0012		
		<b>Ellipsoid Dist.</b>	112.5798	0.0004		
B17	IM35->A4	<b>Azimuth</b>	337°10'32.2 7513"	0°3'11.114 37"	1:1374364	1:830889
		<b>ΔEllipsoid Height</b>	1.8382	0.0013		
		<b>Ellipsoid Dist.</b>	1970.5218	0.0007		
B18	FING->A4	<b>Azimuth</b>	269°4'5.364 91"	0°21'56.3 1807"	1:88873	1:56445
		<b>ΔEllipsoid Height</b>	-46.8225	0.0026		
		<b>Ellipsoid Dist.</b>	154.2767	-0.0013		
B19	A1->A4	<b>Azimuth</b>	259°54'6.96 565"	0°32'38.4 4725"	1:114222	1:64750
		<b>ΔEllipsoid Height</b>	-6.5945	-0.0007		
		<b>Ellipsoid Dist.</b>	204.2566	0.0006		
B20	A2->A4	<b>Azimuth</b>	311°39'50.7 3012"	0°21'13.3 6565"	1:119697	1:75469
		<b>ΔEllipsoid Height</b>	-13.1916	-0.0023		
		<b>Ellipsoid Dist.</b>	252.1519	-0.0007		
B21	A3->A4	<b>Azimuth</b>	320°40'45.5 1922"	1°2'21.37 749"	1:125662	1:77387
		<b>ΔEllipsoid Height</b>	-11.7225	-0.0018		
		<b>Ellipsoid Dist.</b>	202.4613	-0.0002		
B22	IM34->A5	<b>Azimuth</b>	326°27'24.9 2550"	1°8'37.07 496"	1:98224	1:70050
		<b>ΔEllipsoid Height</b>	-15.2027	-0.0033		
		<b>Ellipsoid Dist.</b>	183.6103	-0.0009		
B23	IM35->A5	<b>Azimuth</b>	337°5'54.27 430"	0°0'3.994 25"	1:1096547	1:779314
		<b>ΔEllipsoid Height</b>	-3.0371	0.0005		
		<b>Ellipsoid Dist.</b>	2042.6598	0.0006		
B24	FING->A5	<b>Azimuth</b>	289°33'2.13 274"	0°0'33.59 187"	1:92623	1:66543
		<b>ΔEllipsoid Height</b>	-51.6978	0.0007		

		<b>Ellipsoid Dist.</b>	195.3207	-0.0006		
B25	A1->A5	<b>Azimuth</b>	277°17'34.2 0361"	0°26'18.8 8282"	1:108878	1:71457
		<b>ΔEllipsoid Height</b>	-11.4698	0.0010		
		<b>Ellipsoid Dist.</b>	233.6727	-0.0004		
B26	A2->A5	<b>Azimuth</b>	316°47'58.6 1699"	0°30'22.7 2976"	1:131417	1:89751
		<b>ΔEllipsoid Height</b>	-18.0669	0.0011		
		<b>Ellipsoid Dist.</b>	319.8853	0.0008		
B27	A3->A5	<b>Azimuth</b>	324°25'57.5 8661"	0°36'37.9 7496"	1:141185	1:99682
		<b>ΔEllipsoid Height</b>	-16.5978	0.0001		
		<b>Ellipsoid Dist.</b>	273.1579	0.0014		
B28	A4->A5	<b>Azimuth</b>	334°59'41.2 0561"	0°32'29.8 2592"	1:35354	1:24272
		<b>ΔEllipsoid Height</b>	-4.8753	0.0001		
		<b>Ellipsoid Dist.</b>	72.3524	-0.0008		
B29	IM34-> A6	<b>Azimuth</b>	356°57'10.5 2805"	0°13'2.60 445"	1:102433	1:56727
		<b>ΔEllipsoid Height</b>	-11.7978	-0.0007		
		<b>Ellipsoid Dist.</b>	190.2805	-0.0022		
B30	IM35-> A6	<b>Azimuth</b>	339°51'17.7 1452"	0°21'28.9 3186"	1:1102235	1:609314
		<b>ΔEllipsoid Height</b>	0.3678	-0.0025		
		<b>Ellipsoid Dist.</b>	2043.8230	0.0007		
B31	FING-> A6	<b>Azimuth</b>	319°11'37.7 4798"	2°6'18.36 479"	1:65126	1:38965
		<b>ΔEllipsoid Height</b>	-48.2929	0.0055		
		<b>Ellipsoid Dist.</b>	140.8735	-0.0010		
B32	A1->A6	<b>Azimuth</b>	295°25'6.70 126"	3°4'41.74 584"	1:73304	1:41445
		<b>ΔEllipsoid Height</b>	-8.0650	0.0083		
		<b>Ellipsoid Dist.</b>	155.7573	0.0004		
B33	A2->A6	<b>Azimuth</b>	334°41'53.2 7742"	14°9'7.74 447"	1:121260	1:71914
		<b>ΔEllipsoid Height</b>	-14.6621	-0.1779		
		<b>Ellipsoid Dist.</b>	298.9559	-0.0710		

B34	A3->A6	<b>Azimuth</b>	345°22'19.8 6953"	0°44'38.9 7888"	1:137252	1:78765
		<b>ΔEllipsoid Height</b>	-13.1929	-0.0024		
		<b>Ellipsoid Di st.</b>	267.9218	0.0022		
B35	A4->A6	<b>Azimuth</b>	30°32'10.65 906"	0°28'0.14 585"	1:58157	1:32511
		<b>ΔEllipsoid Height</b>	-1.4704	0.0028		
		<b>Ellipsoid Di st.</b>	119.0822	0.0007		
B36	A5->A6	<b>Azimuth</b>	67°48'10.36 335"	2°48'17.0 5218"	1:42566	1:26632
		<b>ΔEllipsoid Height</b>	3.4049	0.0027		
		<b>Ellipsoid Di st.</b>	98.3570	0.0007		
B37	IM34-> A7	<b>Azimuth</b>	30°7'50.765 17"	0°20'16.2 1174"	1:125022	1:79708
		<b>ΔEllipsoid Height</b>	-8.2216	-0.0013		
		<b>Ellipsoid Di st.</b>	227.9583	-0.0013		
B38	IM35-> A7	<b>Azimuth</b>	343°15'26.9 8580"	0°9'17.59 535"	1:1103842	1:703330
		<b>ΔEllipsoid Height</b>	3.9440	-0.0008		
		<b>Ellipsoid Di st.</b>	2011.4531	0.0000		
B39	FING-> A7	<b>Azimuth</b>	19°26'37.49 412"	0°38'54.3 6861"	1:56155	1:38125
		<b>ΔEllipsoid Height</b>	-44.7167	0.0017		
		<b>Ellipsoid Di st.</b>	122.5105	0.0009		
B40	A1->A7	<b>Azimuth</b>	347°47'36.3 3395"	0°57'8.52 785"	1:35927	1:22123
		<b>ΔEllipsoid Height</b>	-4.4888	-0.0017		
		<b>Ellipsoid Di st.</b>	75.9981	-0.0013		
B41	A2->A7	<b>Azimuth</b>	359°20'45.3 2759"	1°2'7.529 48"	1:115510	1:74875
		<b>ΔEllipsoid Height</b>	-11.0859	-0.0003		
		<b>Ellipsoid Di st.</b>	277.5755	0.0004		
B42	A3->A7	<b>Azimuth</b>	12°3'17.232 22"	0°30'27.2 7309"	1:137528	1:88914
		<b>ΔEllipsoid Height</b>	-9.6167	0.0027		
		<b>Ellipsoid Di st.</b>	272.4815	0.0000		
B43	A4->A7	<b>Azimuth</b>	59°16'16.43 094"	0°26'37.2 9873"	1:106016	1:66644



		<b>ΔEllipsoid Height</b>	2.1058	0.0022		
		<b>Ellipsoid Dist.</b>	215.1687	-0.0005		
B44	A5->A7	<b>Azimuth</b>	78°19'33.96 364"	0°20'34.1 8598"	1:96329	1:66363
		<b>ΔEllipsoid Height</b>	6.9811	-0.0007		
		<b>Ellipsoid Dist.</b>	220.1250	-0.0003		
B45	A6->A7	<b>Azimuth</b>	86°36'18.11 980"	2°56'33.4 9942"	1:55807	1:31998
		<b>ΔEllipsoid Height</b>	3.5762	-0.0076		
		<b>Ellipsoid Dist.</b>	124.7201	-0.0011		

**Style Two:**

<b>O b s e r v a t i o n I D</b>	<b>B a s e l i n e I D</b>	<b>DX (m)</b>	<b>V. D X (m m)</b>	<b>St d. D X (m m)</b>	<b>DY (m)</b>	<b>V. D Y (m m)</b>	<b>St d. D Y (m m)</b>	<b>DZ (m)</b>	<b>V. D Z (m m)</b>	<b>St d. D Z (m m)</b>	<b>d V D X (m m)</b>	<b>d V D Y (m m)</b>	<b>d V D Z (m m)</b>
B01	I M 3 4 > I M 3 5	19. 411 62	-1. 6	0. 0	121 6.8 899 8	-4. 4	0. 0	-14 10. 753 97	2. 6	0. 0	3. 4	0. 1	0. 1
B02	I M 3 4 > F I N G	10 8.6 293 1	-0. 9	1. 2	-2 4.8 723 3	0. 7	1. 5	52. 477 60	-0. 7	1. 3	1. 4	0. 1	0. 2
B03	I M 3 5 > F I N G	89. 217 69	-0. 9	1. 2	-12 41. 762 31	2. 1	1. 5	146 3.2 315 7	1. 9	1. 3	2. 0	0. 2	0. 1
B04	I M 3 4 > A 1	14 5.7 713 2	-0. 9	1. 4	16. 716 19	0. 1	2. 0	10 2.8 936 2	-1. 3	1. 3	1. 5	0. 0	0. 2
B05	I M 3 5 > A 1	12 6.3 597 0	-0. 7	1. 4	-12 00. 173 79	4. 5	2. 0	151 3.6 475 9	3. 3	1. 3	1. 8	0. 2	0. 1

B 0 6	FI N G - > A 1	37. 142 00	0. 0	1. 6	41. 588 52	0. 4	2. 2	50. 416 02	0. 2	1. 5	0. 1	0. 0	0. 0
B 0 7	I M 3 4- > A 2	73. 330 91	-2. 4	1. 2	10 1.6 655 3	1. 1	1. 7	-6 7.4 874 2	1. 8	2. 1	1. 5	0. 0	0. 2
B 0 8	I M 3 5- > A 2	53. 919 28	2. 7	1. 2	-11 15. 224 45	-0. 7	1. 7	134 3.2 665 5	0. 1	2. 1	1. 8	0. 1	0. 1
B 0 9	FI N G - > A 2	-3 5.2 984 1	1. 1	1. 4	12 6.5 378 6	-0. 6	2. 0	-11 9.9 650 2	-0. 9	2. 3	0. 1	0. 1	0. 0
B 1 0	A 1- > A 2	-7 2.4 404 1	0. 8	1. 6	84. 949 34	1. 3	2. 3	-17 0.3 810 4	0. 6	2. 2	0. 0	0. 0	0. 0
B 1 1	I M 3 4- > A 3	26. 305 93	-2. 3	0. 9	63. 995 18	0. 1	1. 3	-5 7.6 032 1	2. 2	1. 5	1. 5	0. 0	0. 2
B 1 2	I M 3 5- > A 3	6.8 943 1	3. 1	0. 9	-11 52. 894 81	-2. 5	1. 3	135 3.1 507 6	-2. 1	1. 5	1. 8	0. 1	0. 1
B 1 3	FI N G - > A 3	-8 2.3 233 9	-2. 9	1. 1	88. 867 50	1. 8	1. 6	-11 0.0 808 1	2. 0	1. 7	0. 1	0. 1	0. 0
B 1 4	A 1- > A 3	-11 9.4 653 9	-1. 9	1. 4	47. 278 99	2. 5	1. 9	-16 0.4 968 3	1. 5	1. 6	0. 0	0. 0	0. 0
B 1 5	A 2- > A 3	-4 7.0 249 8	5. 7	1. 2	-3 7.6 703 6	-1. 3	1. 8	9.8 842 1	-1. 1	2. 2	0. 0	0. 0	0. 0
B 1 6	I M 3 4- > A 4	-3 5.6 001 6	-0. 8	1. 1	-7 3.6 782 2	-1. 4	1. 7	77. 319 87	-1. 1	1. 3	1. 5	0. 0	0. 2

B 1 7	I M 3 5- > A 4	-5 5.0 117 8	1. 0	1. 1	-12 90. 568 20	-1. 1	1. 7	148 8.0 738 4	-0. 1	1. 3	1. 8	0. 1	0. 1
B 1 8	FI N G - > A 4	-14 4.2 294 7	1. 7	1. 3	-4 8.8 058 9	-1. 6	1. 9	24. 842 27	-1. 3	1. 5	0. 1	0. 1	0. 0
B 1 9	A 1- > A 4	-18 1.3 714 7	-0. 7	1. 6	-9 0.3 944 1	-0. 1	2. 3	-2 5.5 737 5	0. 7	1. 5	0. 0	0. 0	0. 0
B 2 0	A 2- > A 4	-10 8.9 310 6	-1. 1	1. 4	-17 5.3 437 5	2. 2	2. 1	14 4.8 072 9	0. 6	2. 2	0. 0	0. 0	0. 0
B 2 1	A 3- > A 4	-6 1.9 060 8	0. 1	1. 1	-13 7.6 733 9	1. 6	1. 7	13 4.9 230 8	1. 4	1. 7	0. 0	0. 0	0. 0
B 2 2	I M 3 4- > A 5	-4 2.3 238 5	-2. 1	1. 2	-11 8.4 531 6	2. 9	1. 5	13 3.7 545 5	0. 6	1. 8	1. 6	0. 0	0. 2
B 2 3	I M 3 5- > A 5	-6 1.7 354 7	0. 2	1. 2	-13 35. 343 14	-0. 7	1. 5	154 4.5 085 2	0. 1	1. 8	1. 8	0. 1	0. 1
B 2 4	FI N G - > A 5	-15 0.9 531 6	0. 6	1. 4	-9 3.5 808 3	-0. 2	1. 8	81. 276 94	-0. 5	1. 9	0. 2	0. 1	0. 0
B 2 5	A 1- > A 5	-18 8.0 951 7	0. 5	1. 6	-13 5.1 693 5	-0. 3	2. 2	30. 860 93	-1. 0	1. 9	0. 0	0. 0	0. 0
B 2 6	A 2- > A 5	-11 5.6 547 5	-0. 5	1. 5	-22 0.1 186 9	-1. 5	2. 1	20 1.2 419 7	-0. 5	2. 5	0. 0	0. 0	0. 0
B 2 7	A 3- > A 5	-6 8.6 297 8	0. 4	1. 1	-18 2.4 483 4	-0. 9	1. 6	19 1.3 577 6	1. 3	1. 9	0. 0	0. 0	0. 0
B 2 8	A 4- > A 5	-6. 723 69	-0. 1	1. 3	-4 4.7 749 4	0. 4	1. 9	56. 434 68	-0. 8	1. 9	0. 1	0. 0	0. 0

B 2 9	I M 3 4- > A 6	46. 667 80	-1. 1	1. 6	-8 7.7 578 2	1. 5	2. 5	16 2.2 570 0	-1. 4	1. 7	1. 5	0. 0	0. 2
B 3 0	I M 3 5- > A 6	27. 256 18	2. 0	1. 6	-13 04. 647 80	2. 5	2. 5	157 3.0 109 7	3. 0	1. 7	1. 8	0. 1	0. 1
B 3 1	FI NG - > A 6	-6 1.9 615 1	3. 3	1. 7	-6 2.8 854 9	-4. 3	2. 6	10 9.7 794 0	-1. 8	1. 8	0. 1	0. 1	0. 0
B 3 2	A 1- > A 6	-9 9.1 035 1	4. 8	1. 8	-10 4.4 740 1	-6. 6	2. 8	59. 363 38	-2. 7	1. 8	0. 0	0. 0	0. 0
B 3 3	A 2- > A 6	-2 6.6 631 0	-9 4. 1	1. 8	-18 9.4 233 5	16 8. 3	2. 8	22 9.7 444 2	3 5. 5	2. 5	0. 0	0. 0	0. 0
B 3 4	A 3- > A 6	20. 361 87	0. 0	1. 5	-15 1.7 529 9	0. 8	2. 4	21 9.8 602 1	3. 2	1. 9	0. 0	0. 0	0. 0
B 3 5	A 4- > A 6	82. 267 96	2. 0	1. 7	-1 4.0 796 0	-1. 8	2. 7	84. 937 13	-1. 2	1. 8	0. 0	0. 0	0. 0
B 3 6	A 5- > A 6	88. 991 65	1. 7	1. 7	30. 695 34	-2. 5	2. 6	28. 502 45	-0. 3	2. 1	0. 0	0. 0	0. 0
B 3 7	I M 3 4- > A 7	15 4.0 296 4	-1. 7	1. 4	-2 4.4 136 3	0. 8	1. 9	16 6.2 643 8	-0. 1	1. 6	1. 6	0. 0	0. 1
B 3 8	I M 3 5- > A 7	13 4.6 180 2	1. 0	1. 4	-12 41. 303 61	1. 1	1. 9	157 7.0 183 5	0. 8	1. 6	1. 8	0. 1	0. 0
B 3 9	FI NG - > A 7	45. 400 33	1. 9	1. 6	0.4 587 0	-1. 3	2. 2	11 3.7 867 7	0. 2	1. 8	0. 2	0. 1	0. 0
B 4 0	A 1- >	8.2 583 3	-1. 3	1. 7	-4 1.1 298 2	1. 9	2. 4	63. 370 76	-0. 2	1. 7	0. 1	0. 1	0. 0

	A 7													
B 4 1	A 2- > A 7	80. 698 74	-1. 2	1. 6	-12 6.0 791 6	-0. 8	2. 3	23 3.7 518 0	0. 4	2. 4	0. 0	0. 0	0. 0	
B 4 2	A 3- > A 7	12 7.7 237 1	1. 8	1. 4	-8 8.4 088 0	-1. 4	2. 0	22 3.8 675 8	-1. 6	1. 9	0. 0	0. 0	0. 0	
B 4 3	A 4- > A 7	18 9.6 298 0	0. 6	1. 6	49. 264 59	-1. 3	2. 2	88. 944 51	-1. 8	1. 7	0. 1	0. 0	0. 0	
B 4 4	A 5- > A 7	19 6.3 534 9	-0. 5	1. 6	94. 039 53	0. 1	2. 1	32. 509 83	0. 6	2. 0	0. 0	0. 0	0. 0	
B 4 5	A 6- > A 7	10 7.3 618 4	-4. 7	1. 9	63. 344 19	5. 6	2. 8	4.0 073 7	2. 8	1. 9	0. 0	0. 0	0. 0	

#### 4.4 Adjusted Geodetic Coordinates in WGS84

Point I D	Latitude	Latitude Er r.(s)	Longitude	Longitude Er r.(s)	Ellipsoid Heigh t(m)	H. Err. (m)
IM34	34°55'08.783 46"S	0.000000	056°10'02.9972 1"W	0.000000	35.3837	0.0000
IM35	34°56'04.895 17"S	0.000000	056°09'35.6645 9"W	0.000000	23.2181	0.0000
FING	34°55'05.879 94"S	0.000036	056°09'59.9878 8"W	0.000038	71.8788	0.0014
A1	34°55'04.796 02"S	0.000038	056°09'57.8601 7"W	0.000040	31.6509	0.0018
A2	34°55'11.389 41"S	0.000048	056°09'58.3673 8"W	0.000047	38.2480	0.0014
A3	34°55'11.031 52"S	0.000034	056°10'00.7326 1"W	0.000033	36.7788	0.0011
A4	34°55'05.957 48"S	0.000035	056°10'05.7783 4"W	0.000038	25.0563	0.0014
A5	34°55'03.834 53"S	0.000049	056°10'06.9804 7"W	0.000043	20.1810	0.0013
A6	34°55'02.629 43"S	0.000046	056°10'03.3949 2"W	0.000047	23.5859	0.0022
A7	34°55'02.389 83"S	0.000045	056°09'58.4921 1"W	0.000047	27.1621	0.0017

#### 4.5 Adjusted ECEF Coordinates in WGS84

Point I D	X(m)	X Err. (m)	Y(m)	Y Err. (m)	Z(m)	Z Err. (m)	3D Err. (m)
IM34	2915007.72 257	0.00000	-4349047.89 554	0.00000	-3630532.20 828	0.00000	0.00000
IM35	2915027.13 419	0.00000	-4347831.00 556	0.00000	-3631942.96 226	0.00000	0.00000
FING	2915116.35 188	0.00118	-4349072.76 787	0.00154	-3630479.73 068	0.00135	0.00236
A1	2915153.49 389	0.00144	-4349031.17 935	0.00199	-3630429.31 466	0.00133	0.00279

A2	2915081.05 347	0.00121	-4348946.23 001	0.00173	-3630599.69 570	0.00209	0.00298
A3	2915034.02 850	0.00088	-4348983.90 036	0.00128	-3630589.81 149	0.00147	0.00214
A4	2914972.12 241	0.00112	-4349121.57 376	0.00166	-3630454.88 841	0.00127	0.00237
A5	2914965.39 872	0.00118	-4349166.34 870	0.00154	-3630398.45 374	0.00176	0.00262
A6	2915054.39 037	0.00158	-4349135.65 336	0.00246	-3630369.95 128	0.00165	0.00335
A7	2915161.75 221	0.00143	-4349072.30 917	0.00193	-3630365.94 391	0.00155	0.00286

#### 4.6 Adjusted Grid Coordinates and Height in Local System

Point ID	East(m)	East Err.(m)	North(m)	North Err.(m)	Elev.(m)	Elev. Err.(m)
IM34	576042.69028	0.00000	6135611.41176	0.00000	35.3837	0.0000
IM35	576721.70426	0.00000	6133877.07978	0.00000	23.2181	0.0000
FING	576119.79252	0.00096	6135700.21989	0.00110	71.8788	0.0014
A1	576174.05866	0.00101	6135733.16063	0.00119	31.6509	0.0018
A2	576159.49685	0.00118	6135530.15705	0.00148	38.2480	0.0014
A3	576099.57495	0.00083	6135541.68168	0.00104	36.7788	0.0011
A4	575972.84677	0.00095	6135699.05342	0.00107	25.0563	0.0014
A5	575942.88748	0.00109	6135764.70466	0.00151	20.1810	0.0013
A6	576034.17564	0.00120	6135801.07178	0.00142	23.5859	0.0022
A7	576158.64138	0.00119	6135807.41721	0.00138	27.1621	0.0017

#### 4.7 Lat-Lon-Height(Local)

Point ID	Latitude	Latitude Error(s)	Longitude	Longitude Error(s)	Ellipsoid Height(m)	H. Err. (m)
IM34	34°55'08.783 46"S	0.000000	056°10'02.9972 1"W	0.000000	35.3837	0.0000
IM35	34°56'04.895 17"S	0.000000	056°09'35.6645 9"W	0.000000	23.2181	0.0000
FING	34°55'05.879 94"S	0.000036	056°09'59.9878 8"W	0.000038	71.8788	0.0014
A1	34°55'04.796 02"S	0.000038	056°09'57.8601 7"W	0.000040	31.6509	0.0018
A2	34°55'11.389 41"S	0.000048	056°09'58.3673 8"W	0.000047	38.2480	0.0014
A3	34°55'11.031 52"S	0.000034	056°10'00.7326 1"W	0.000033	36.7788	0.0011
A4	34°55'05.957 48"S	0.000035	056°10'05.7783 4"W	0.000038	25.0563	0.0014
A5	34°55'03.834 53"S	0.000049	056°10'06.9804 7"W	0.000043	20.1810	0.0013
A6	34°55'02.629 43"S	0.000046	056°10'03.3949 2"W	0.000047	23.5859	0.0022
A7	34°55'02.389 83"S	0.000045	056°09'58.4921 1"W	0.000047	27.1621	0.0017

#### 4.8 Coordinate Change

Point ID(m)	ΔEast(m)	ΔNorth(m)	ΔEllipsoid Height(m)
IM34	-0.13665	7.18517	6.6894
IM35	-1.09549	-0.81936	0.7247
FING	-2.59021	4.33222	5.0058

A1	1.52418	4.92392	-16.5973
A2	-3.72243	8.94831	-4.8972
A3	-0.21402	4.60127	5.7680
A4	-2.06757	3.50127	2.2833
A5	-2.01127	2.56473	5.6619
A6	-0.66579	1.84792	0.0717
A7	-0.66662	1.84609	0.0641

#### 4.9 Worst baseline and station statistics

Worst baseline	Baseline ID	DX (m)	Std. DX (m)	DY (m)	Std. DY (m)	DZ (m)	Std. DZ (m)	Distance (m)	Mean Error (m)	Relative error
B15 (A2->A3)	A2->A3	-47.02498	1.2	-37.67036	1.8	9.88421	2.2	61.05818	0.00312	1/19568.00000




Worst local station	East(m)	East Error(m)	North(m)	North Error(m)	Elev. (m)	Elev. Error(m)	Standard Deviation
A6	576034.17564	0.00120	6135801.07178	0.00142	23.5859	0.0022	0.00286

#### 4.10 Error Ellipse

Point ID	Major Axis(m)	Short Axis(m)	Azimuth
IM34	0.0000	0.0000	0°0'0.00000"
IM35	0.0000	0.0000	0°0'0.00000"
FING	0.0011	0.0009	155°32'19.50791"
A1	0.0012	0.0010	156°41'53.61194"
A2	0.0015	0.0012	164°23'15.07294"
A3	0.0011	0.0008	160°24'1.81337"
A4	0.0011	0.0009	151°27'4.13469"
A5	0.0015	0.0011	168°7'49.94235"
A6	0.0015	0.0011	156°29'55.90631"
A7	0.0014	0.0011	153°2'25.40597"

Error Ellipse

IM34		IM35	
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FING		A1	
A2		A3	
A4		A5	
A6		A7	