



Network Adjustment Report

Basic Information

Name	Value
Username	PC-SEBASTIAN
Project Datum	Magna_Colombia_Bogota
Project Name	Post proceso
Distance Units	Meter
Height Units	Meter

1 Adjustment Settings

Basic Parameters

Name	Value
Ellipsoid Name	GRS80
Major Axis(m)	6378137.00000
Flattening Reciprocal(1/f)	298.2572221

Projection Parameters

Name	Value
Projection Method	Transverse Mercator Projection
Scale Factor	1
Projection Height	0.00000
Original Latitude	04°35'46.32150"N
Central Meridian(L0)	074°04'39.02850"W
North Additive Constant(m)	1000000.00000
East Additive Constant(m)	1000000.00000

2 Adjustment Statistics

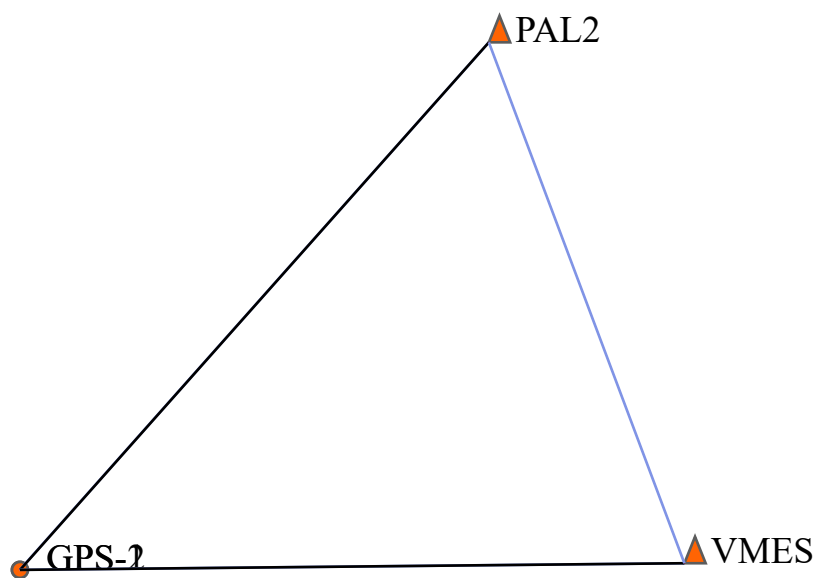
Statistical Summary

Name	Value
Network Reference Factor	2.1885067171114
Chi Square Test	Pass
Chi Square Value	3.79553
Range of Chi Square Test	0.04654 ~ 7.54452
Ratio of Unit Weight Standard Error	1.37759
Precision Confidence Level	2 sigma

3 Control Point

Number Of Points 04
Control Point Sum 02

Control Points



4 Two-Dimensional Constraint Adjustment

4.1 Translation Parameters

Origin North(m)	1280413.86900
Origin East(m)	1098683.93270
dx(m)	0.00000
dy(m)	0.00000
Rotation Angle	000°00'00.29075"
Ratio(PPM)	1.000008

4.2 Baselines Input in WGS84

Observation ID	Baseline ID	DN(m)	Std.DN(m)	DE(m)	Std.DE(m)
B01	GPS-1->GPS-2	-4.75415	0.2	9.43366	0.3
B02	PAL2->GPS-1	-27720.69044	1.9	-24652.80404	3.0
B04	VMES->GPS-1	-344.89763	1.8	-34928.67695	2.9
B06	PAL2->VMES	-27375.78158	0.2	10275.86860	0.2

4.3 Líneas de base ajustadas en el sistema local

ID de observación	ID de línea base	DN (m)	Estándar DN (m)	V.D N (m)	DE (m)	Std. DE (m)	V.D E (m)	dV DN (m)	dV DE (m)
B01	GPS-1->GPS-2	-4.75420	0.6	-0.1	9.43374	0.9	0.1	0.1	0.1
B02	PAL2->GPS-1	-27720.87670	4.0	-186.3	-24653.04710	6.3	-243.1	189.8	243.9
B04	VMES->GPS-1	-344.85632	4.0	41.3	-34928.96131	6.3	-284.4	35.5	287.2
B06	PAL2->VMES	-27376.02038	0.5	-238.8	10275.91421	0.7	45.6	240.7	45.0

4.4 Coordenadas y altura de la cuadrícula ajustadas en el sistema local

ID de punto	Norte(m)	Err. del Norte(m)	Este(m)	East Err. (m)	Elev.(m)	Elev. Err. (m)
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GPS-1	1252692.9 9230	0.00402	1074030.8 8560	0.00631	670.473 20	0.00540
GPS-2	1252688.2 3810	0.00406	1074040.3 1933	0.00636	670.980 67	0.00555
PAL2	1280413.8 6900	0.00000	1098683.9 3270	0.00000	1206.49 451	0.00546
VMES	1253037.8 4861	0.00000	1108959.8 4690	0.00000	1631.86 229	0.00545

4.5 Latitud-Longitud-Altura(Local)

ID de punto	Latitud	Latitud err.(s)	Longitud	Err.(s) de l ongitud	Altura del eli psoide (m)	H. Err. (m)
GPS-1	06°52'50.7 9900"N	0.00000 0	073°24'27.7 1887"O	0.000000	679.56510	0.0000 0
GPS-2	06°52'50.6 4381"N	0.00000 0	073°24'27.4 1183"O	0.000000	680.07589	0.0000 0
PAL2	07°07'51.7 5973"N	0.00000 0	073°11'03.0 6900"O	0.000000	1216.07506	0.0000 0
VMES	06°53'00.0 5533"N	0.00000 0	073°05'30.0 9733"O	0.000000	1645.06743	0.0000 0

4.6 Cambio de coordenadas

ID de punto (m)	ΔNorth(m)	ΔEast(m)	ΔEaltura del elipsoide (m)
GPS-1	0.04131	-0.28435	0.39807
GPS-2	0.13939	1.14358	0.44317
PAL2	0.00000	0.00000	-0.42244
VMES	-0.23880	0.04561	-0.42258

4.7 Peores estadísticas de la línea de base y de la estación

Pe or línea de base	I D de línea base	No rte (m)	Err. del Nor te (m)	Est e (m)	Eas t E rr. (m)	Alt ura (m)	H. Er r. (m)	Dis tan cia (m)	Err or me dio (m)	E rr or re la ti vo
B0 1 (G PS -1- >G PS -2)	G P S- 1- > G P S- 2	-4.7 542 0	0.00 059	9.4 337 4	0.0 008 6	0.0 000 0	0.0 000 0	10. 563 98	0.00 104	1/ 10 11 5. 00 00 0

Peor est ación lo cal	Norte (m)	Err. del Norte (m)	Este(m)	East E rr.(m)	Elev. (m)	Elev. E rr.(m)	Desviaci ón estándar
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GPS-2	125268 8.23810	0.00406	107404 0.31933	0.0063 6	670.9 8067	0.0055 5	0.00937
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4.8 Elipse de error

ID de punto	Eje mayor (m)	Eje corto (m)	Acimut
GPS-1	0.00643	0.00382	104°7'16.46819"
GPS-2	0.00649	0.00387	103°52'5.25245"
PAL2	0.00000	0.00000	0°0'0.00000"
VMES	0.00000	0.00000	0°0'0.00000"

Elipse
de error

GPS-1		GPS-2	
PAL2		VMES	