

Network Adjustment

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Created: 10/21/2020 09:28:46

Project Information

Project name:	Post-Proceso Base SERTET 20-10-2020
Date created:	10/21/2020 08:57:32
Time zone:	-5h 00'
Coordinate system name:	WGS 1984
Application software:	LEICA Geo Office 8.4
Processing kernel:	MOVE3 4.1

General Information

Adjustment

Type:	Constrained	
Dimension:	3D	
Coordinate system:	WGS 1984	
Height mode:	Ellipsoidal	
Number of iterations:	0	
Maximum coord correction in last iteration:	0.0000 m	(tolerance is met)

Stations

Number of (partly) known stations:	4
Number of unknown stations:	2
Total:	6

Observations

GPS coordinate differences:	15 (5 baselines) (including 1 baseline as free observation)
Known coordinates:	12
Total:	27 (including 3 free observations)

Unknowns

Coordinates:	18
Total:	18
Degrees of freedom:	9

Testing

Alfa (multi dimensional):	0.2876	
Alfa 0 (one dimensional):	5.0 %	
Beta:	80.0 %	
Sigma a-priori (GPS):	10.0	
Critical value W-test:	1.96	
Critical value T-test (2-dimensional):	2.42	
Critical value T-test (3-dimensional):	1.89	
Critical value F-test:	1.20	
F-test:	141.02	(rejected)

Results based on a-posteriori variance factor

Adjustment Results

Coordinates

Station		Coordinate	Corr	Sd	
BASE SERTET	Latitude	8° 44' 32.54541" N	0.0000 m	0.0365 m	
	Longitude	75° 52' 33.23057" W	0.0000 m	0.0497 m	
	Height	17.0510 m	0.0000 m	0.1094 m	
BEJA	Latitude	7° 03' 38.29208" N	0.0000 m	-	fixed
	Longitude	73° 52' 32.12911" W	0.0000 m	-	fixed
	Height	93.5493 m	0.0000 m	-	fixed
CART	Latitude	10° 23' 28.80880" N	0.0000 m	-	fixed
	Longitude	75° 32' 01.86707" W	0.0000 m	-	fixed
	Height	4.0519 m	0.0000 m	-	fixed
CASI	Latitude	7° 59' 19.82731" N	0.0000 m	-	fixed
	Longitude	75° 12' 00.11954" W	0.0000 m	-	fixed
	Height	69.1127 m	0.0000 m	-	fixed
MEDE	Latitude	6° 11' 57.86128" N	0.0000 m	-	fixed
	Longitude	75° 34' 44.09858" W	0.0000 m	-	fixed
	Height	1553.4734 m	0.0000 m	-	fixed
MOTE	Latitude	8° 47' 31.07873" N	0.0000 m	0.0130 m	
	Longitude	75° 51' 38.40418" W	0.0000 m	0.0159 m	
	Height	33.2446 m	0.0000 m	0.0361 m	

Observations and Residuals

	Station	Target	Adj obs	Resid	Resid (ENH)	Sd
DX	MOTE	BASE SERTET	-1424.7561 m	0.0000 m	0.0000 m	0.0493 m
DY			-1204.3147 m	0.0000 m	0.0000 m	0.1007 m
DZ			-5423.3468 m	0.0000 m	0.0000 m	0.0384 m
DX	MEDE	MOTE	-39731.4075 m	0.0332 m	0.0070 m	0.0173 m
DY			30039.2791 m	-0.1010 m	0.0444 m	0.0351 m
DZ			284082.9022 m	0.0561 m	0.1115 m	0.0142 m
DX	CASI	MOTE	-73697.4280 m	-0.0178 m	-0.0032 m	0.0173 m
DY			-5595.8301 m	0.0548 m	0.0084 m	0.0351 m
DZ			87868.0668 m	0.0004 m	-0.0569 m	0.0142 m
DX	BEJA	MOTE	-218165.9746 m	-0.0161 m	-0.0210 m	0.0173 m
DY			-31585.9247 m	-0.0199 m	0.0299 m	0.0351 m
DZ			189634.2611 m	0.0320 m	0.0184 m	0.0142 m
DX	CART	MOTE	-27471.6800 m	0.0144 m	0.0074 m	0.0173 m
DY			-37451.1511 m	-0.0261 m	-0.0470 m	0.0351 m
DZ			-174415.5415 m	-0.0425 m	0.0207 m	0.0142 m