



Network Adjustment

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Created: 06/02/2011 20:06:57


Project Information

Project name: skupina_1-TRG
Date created: 06/02/2011 19:40:33
Time zone: 2h 00'
Coordinate system name: WGS 1984
Application software: LEICA Geo Office 7.0
Processing kernel: MOVE3 4.0.1

General Information

Adjustment

Type: Minimally 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: 1
Number of unknown stations: 6
Total: 7

Observations

GPS coordinate differences: 18 (6 baselines) (including 6 baselines as free observations)
Known coordinates: 3
Total: 21 (including 18 free observations)


Unknowns

Coordinates: 21
Total: 21

Degrees of freedom: 0

Testing

Alfa (multi dimensional): 1.0000
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: 0.00
F-test: 0.00  (rejected)

Results based on a-posteriori variance factor

Adjustment Results

Coordinates

Station	Latitude	Coordinate	Corr	Sd
1001		50°10' 05.28905" N	0.0000 m	0.0029 m

1002	Longitude	16°54' 02.95656" E	0.0000 m	0.0021 m	
	Height	879.2296 m	0.0000 m	0.0065 m	
	Latitude	50°08' 41.01611" N	0.0000 m	0.0019 m	
1003	Longitude	16°58' 30.48866" E	0.0000 m	0.0016 m	
	Height	746.1496 m	0.0000 m	0.0050 m	
	Latitude	50°10' 23.73487" N	0.0000 m	0.0040 m	
1004	Longitude	16°58' 02.82949" E	0.0000 m	0.0019 m	
	Height	776.1244 m	0.0000 m	0.0051 m	
	Latitude	50°11' 41.08921" N	0.0000 m	0.0022 m	
1005	Longitude	16°58' 49.08782" E	0.0000 m	0.0017 m	
	Height	958.3819 m	0.0000 m	0.0035 m	
	Latitude	50°10' 04.98340" N	0.0000 m	0.0063 m	
CSUM	Longitude	16°56' 48.71289" E	0.0000 m	0.0039 m	
	Height	602.0921 m	0.0000 m	0.0132 m	
	Latitude	49°57' 53.16941" N	0.0000 m	-	
STAM	Longitude	16°58' 51.44527" E	0.0000 m	-	fixed
	Height	378.3650 m	0.0000 m	-	fixed
	Latitude	50°09' 44.39907" N	0.0000 m	0.0009 m	fixed
	Longitude	16°56' 51.94054" E	0.0000 m	0.0007 m	
	Height	603.5355 m	0.0000 m	0.0018 m	

Observations and Residuals

	Station	Target	Adj obs	Resid	Resid (ENH)	Sd
DX	CSUM	STAM	-15285.7737 m	0.0000 m	0.0000 m	0.0014 m
DY			-7148.1084 m	0.0000 m	0.0000 m	0.0007 m
DZ			14280.3577 m	0.0000 m	0.0000 m	0.0015 m
DX	STAM	1005	-449.4346 m	0.0000 m	0.0000 m	0.0090 m
DY			-203.9284 m	0.0000 m	0.0000 m	0.0051 m
DZ			406.3441 m	0.0000 m	0.0000 m	0.0108 m
DX	STAM	1004	-3109.9200 m	0.0000 m	0.0000 m	0.0021 m
DY			1481.7665 m	0.0000 m	0.0000 m	0.0016 m
DZ			2581.7621 m	0.0000 m	0.0000 m	0.0028 m
DX	STAM	1003	-1197.4781 m	0.0000 m	0.0000 m	0.0043 m
DY			1105.8397 m	0.0000 m	0.0000 m	0.0020 m
DZ			911.1284 m	0.0000 m	0.0000 m	0.0044 m
DX	STAM	1002	954.9444 m	0.0000 m	0.0000 m	0.0033 m
DY			2336.8158 m	0.0000 m	0.0000 m	0.0018 m
DZ			-1145.4452 m	0.0000 m	0.0000 m	0.0035 m
DX	STAM	1001	671.1686 m	0.0000 m	0.0000 m	0.0048 m
DY			-3301.8592 m	0.0000 m	0.0000 m	0.0025 m
DZ			625.2152 m	0.0000 m	0.0000 m	0.0046 m

GPS Baseline Vector Residuals

	Station	Target	Adj vector [m]	Resid [m]	Resid [ppm]
DV	CSUM	STAM	22106.0839	0.0000	0.0
DV	STAM	1005	639.2916	0.0000	0.0
DV	STAM	1004	4304.9657	0.0000	0.0
DV	STAM	1003	1867.3484	0.0000	0.0
DV	STAM	1002	2772.1240	0.0000	0.0
DV	STAM	1001	3426.8988	0.0000	0.0

Absolute Error Ellipses (2D - 39.4% 1D - 68.3%)

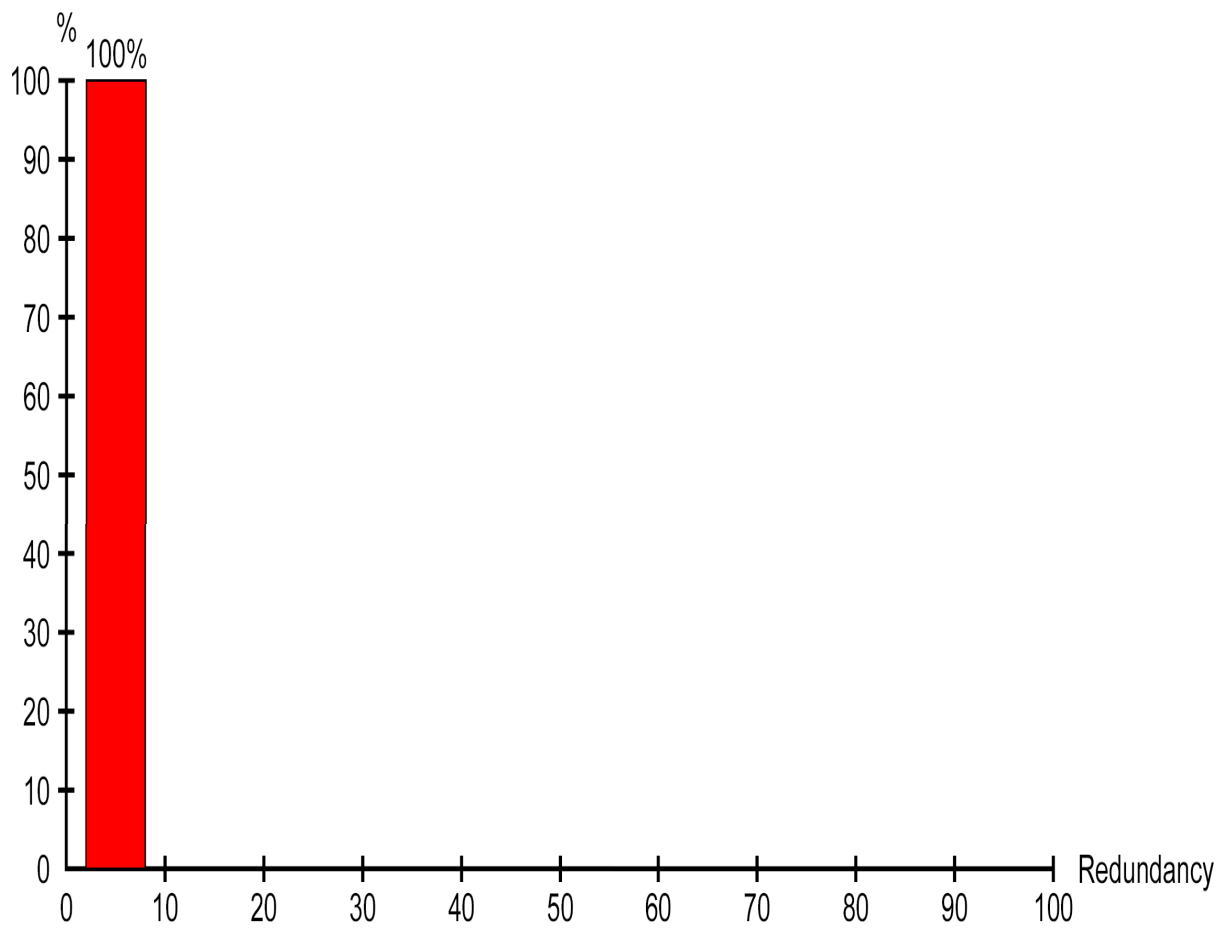
Station	A [m]	B [m]	A/B	Phi	Sd Hgt [m]
1001	0.0029	0.0021	1.4	2°	0.0065
1002	0.0019	0.0016	1.2	-7°	0.0050
1003	0.0040	0.0019	2.1	6°	0.0051
1004	0.0022	0.0016	1.3	-14°	0.0035
1005	0.0063	0.0039	1.6	-3°	0.0132
CSUM	0.0000	0.0000	1.0	90°	0.0000
STAM	0.0010	0.0007	1.4	4°	0.0018

Testing and Estimated Errors

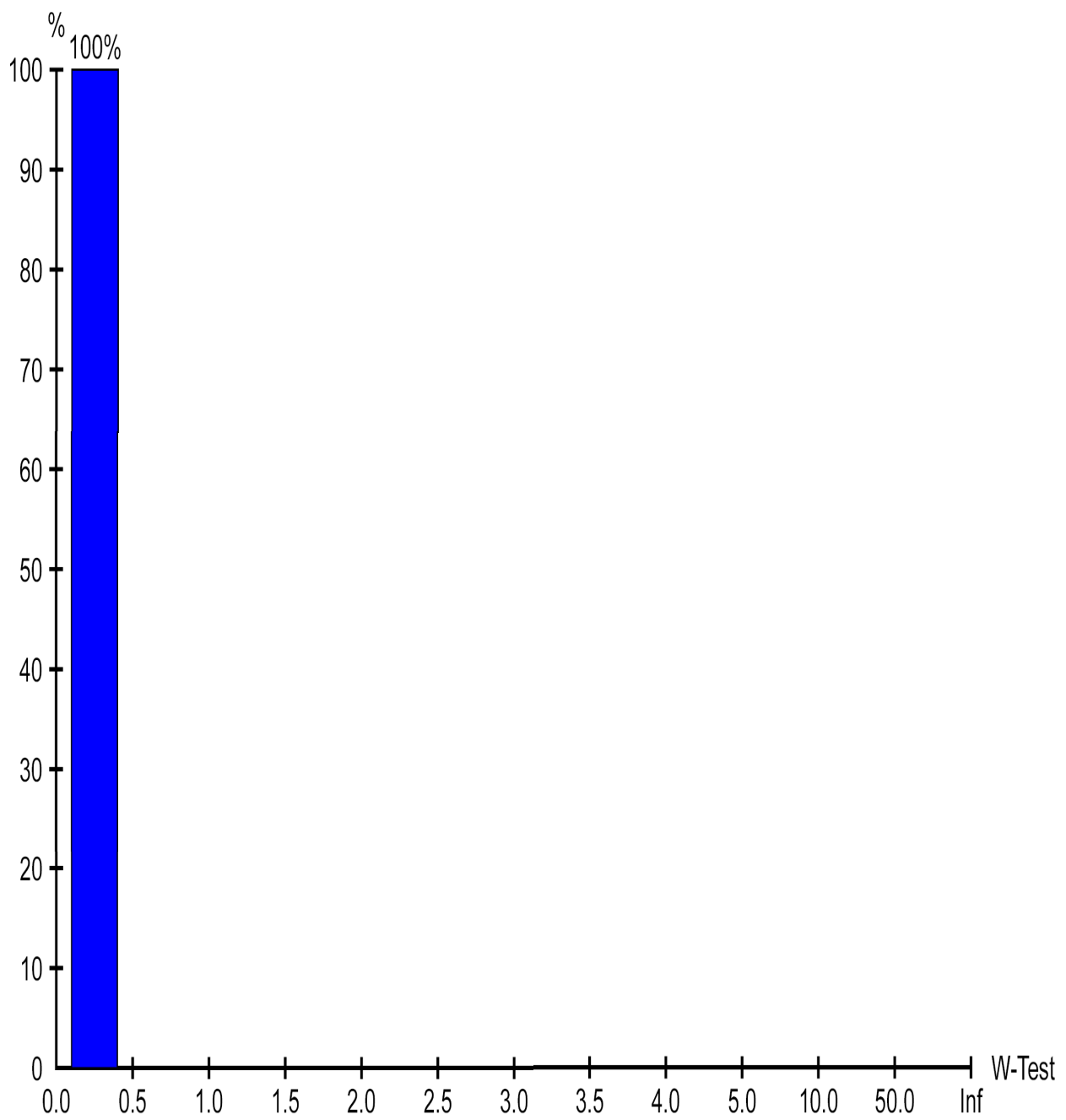
Observation Tests

	Station	Target	MDB	Red	BNR	W-Test	T-Test
DX	CSUM	STAM					
DY							
DZ							
DX	STAM	1005					
DY							
DZ							
DX	STAM	1004					
DY							
DZ							
DX	STAM	1003					
DY							
DZ							
DX	STAM	1002					
DY							
DZ							
DX	STAM	1001					
DY							
DZ							

Redundancy:



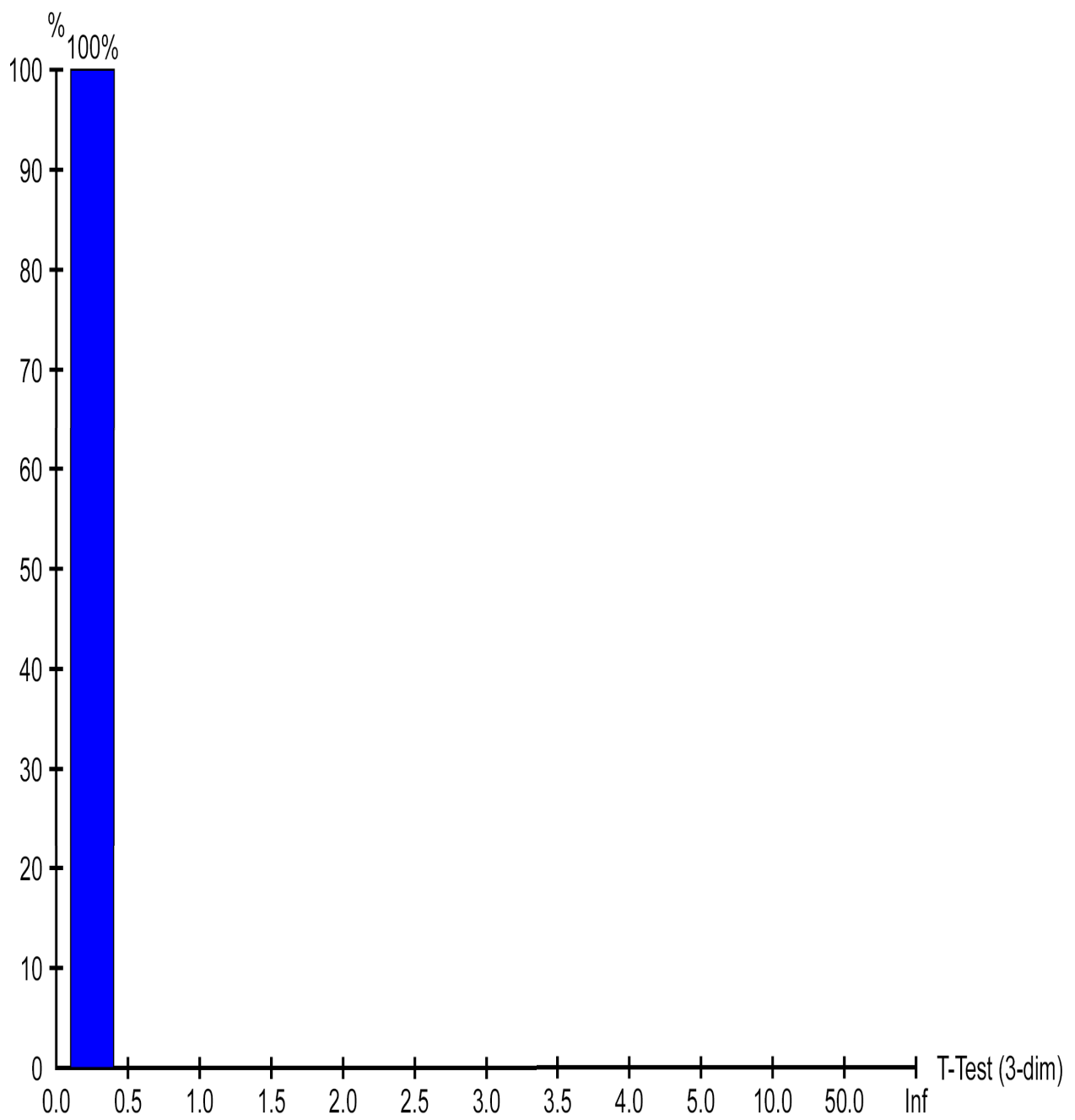
W-Test:



W-Test (< 1.96): 100.0% (18)

W-Test (> 1.96): 0.0% (0)

T-Test (3-dimensional):



T-Test (3-dim) (< 1.89): 100.0% (6)

T-Test (3-dim) (> 1.89): 0.0% (0)