



NETWORK ADJUSTMENT  
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(C) 1993-2012 GRONTMIJ  
LICENSED TO LEICA GEOSYSTEMS AG  
CREATED: 12/13/2012 08:14:18

PROJECT INFORMATION  
PROJECT NAME: GPS STATIC SW04918 VERTICAL GPS  
DATE CREATED: 12/13/2012 07:08:14  
TIME ZONE: -5H 00'  
COORDINATE SYSTEM NAME: OK S NAD83 009  
APPLICATION SOFTWARE: LEICA GEO OFFICE 8.3  
PROCESSING KERNEL: MOVE3 4.1

GENERAL INFORMATION  
ADJUSTMENT TYPE: WEIGHTED CONSTRAINED  
DIMENSION: 3D  
COORDINATE SYSTEM: WGS 1984  
HEIGHT MODE: ELLIPSOIDAL

NUMBER OF ITERATIONS: 1  
MAXIMUM COORD CORRECTION IN LAST ITERATION: 0.0000 M (TOLERANCE IS MET)

STATIONS  
NUMBER OF (PARTLY) KNOWN STATIONS: 3  
NUMBER OF UNKNOWN STATIONS: 9  
TOTAL: 12

OBSERVATIONS  
GPS COORDINATE DIFFERENCES: 240 (80 BASELINES)  
KNOWN COORDINATES: 9  
TOTAL: 249

UNKNOWN COORDINATES: 36  
TOTAL: 36

DEGREES OF FREEDOM: 213

TESTING  
ALFA (MULTI DIMENSIONAL): 0.6832  
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: 0.95  
F-TEST: 0.95 (ACCEPTED)

RESULTS BASED ON A-POSTERIORI VARIANCE FACTOR

STATION	COORDINATE	CORR	SD	
7400	LATITUDE 35° 17' 26.37230" N	0.0007 M	0.0045 M	
	LONGITUDE 98° 39' 23.45929" W	-0.0034 M	0.0044 M	
7401	HEIGHT 425.8042 M	0.0000 M	0.0067 M	
	LONGITUDE 98° 38' 38.22244" W	-0.0034 M	0.0044 M	
7402	HEIGHT 438.2557 M	0.0000 M	0.0067 M	
	LONGITUDE 98° 34' 13.36797" W	-0.0038 M	0.0045 M	
7403	HEIGHT 434.4908 M	0.0000 M	0.0067 M	
	LONGITUDE 98° 34' 09.44527" W	-0.0034 M	0.0046 M	
7404	HEIGHT 461.1227 M	0.0000 M	0.0068 M	
	LONGITUDE 98° 34' 14.27087" W	-0.0034 M	0.0044 M	
C8278	HEIGHT 468.9282 M	0.0000 M	0.0067 M	
	LONGITUDE 98° 34' 15.20904" W	-0.0038 M	0.0043 M	
C8737	HEIGHT 415.2642 M	0.0000 M	0.0066 M	
	LONGITUDE 98° 23' 34.07473" W	0.0041 M	0.0030 M	FIXED
OKAO	HEIGHT 452.2108 M	0.0030 M	0.0049 M	FIXED
	LONGITUDE 98° 14' 45.20064" W	-0.0036 M	0.0036 M	FIXED
OKCL	HEIGHT 340.5231 M	0.0000 M	0.0055 M	
	LONGITUDE 98° 58' 17.24682" W	-0.0036 M	0.0036 M	
OKDT	HEIGHT 470.7472 M	0.0000 M	0.0056 M	
	LONGITUDE 97° 30' 27.66716" W	-0.0036 M	0.0036 M	
W75671	HEIGHT 368.1526 M	0.0000 M	0.0055 M	
	LONGITUDE 98° 42' 41.93984" W	-0.0020 M	0.0030 M	FIXED
X172	HEIGHT 433.7985 M	0.0025 M	0.0049 M	FIXED
	LONGITUDE 98° 38' 29.43723" W	-0.0021 M	0.0030 M	FIXED

NETWORK ADJUSTMENT  
WWW.MOVE3.COM  
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LICENSED TO LEICA GEOSYSTEMS AG  
CREATED: 12/11/2012 13:19:13

PROJECT INFORMATION  
PROJECT NAME: GPS STATIC SW04918 HORIZONTAL GPS  
DATE CREATED: 12/11/2012 13:18:12  
TIME ZONE: -5H 00'  
COORDINATE SYSTEM NAME: WGS 1984  
APPLICATION SOFTWARE: LEICA GEO OFFICE 8.3  
PROCESSING KERNEL: MOVE3 4.1

GENERAL INFORMATION  
ADJUSTMENT TYPE: CONSTRAINED  
DIMENSION: 3D  
COORDINATE SYSTEM: WGS 1984  
HEIGHT MODE: ELLIPSOIDAL

NUMBER OF ITERATIONS: 1  
MAXIMUM COORD CORRECTION IN LAST ITERATION: 0.0000 M (TOLERANCE IS MET)

STATIONS  
NUMBER OF (PARTLY) KNOWN STATIONS: 5  
NUMBER OF UNKNOWN STATIONS: 7  
TOTAL: 12

OBSERVATIONS  
GPS COORDINATE DIFFERENCES: 207 (69 BASELINES)  
KNOWN COORDINATES: 10  
TOTAL: 217

UNKNOWN COORDINATES: 36  
TOTAL: 36

DEGREES OF FREEDOM: 181

TESTING  
ALFA (MULTI DIMENSIONAL): 0.6727  
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: 0.95  
F-TEST: 0.90 (ACCEPTED)

RESULTS BASED ON A-POSTERIORI VARIANCE FACTOR

STATION	COORDINATE	CORR	SD	
7400	LATITUDE 35° 17' 26.37248" N	0.2155 M	0.0046 M	
	LONGITUDE 98° 39' 23.45911" W	0.3098 M	0.0048 M	
7401	HEIGHT 425.1363 M	241.4853 M	0.3985 M	
	LONGITUDE 98° 38' 38.22224" W	0.2667 M	0.0047 M	
7402	HEIGHT 437.5879 M	241.4853 M	0.3985 M	
	LONGITUDE 98° 34' 13.36780" W	0.2378 M	0.0050 M	
7403	HEIGHT 433.8167 M	241.4885 M	0.3985 M	
	LONGITUDE 98° 34' 09.44509" W	0.3539 M	0.0055 M	
7404	HEIGHT 460.4437 M	241.4873 M	0.3985 M	
	LONGITUDE 98° 34' 14.27071" W	0.3590 M	0.0055 M	
C8278	HEIGHT 468.2459 M	241.4874 M	0.3985 M	
	LONGITUDE 98° 34' 15.20884" W	0.0480 M	0.0046 M	
C8737	HEIGHT 414.5961 M	241.4875 M	0.3985 M	
	LONGITUDE 98° 23' 34.07489" W	0.0178 M	0.0035 M	FIXED
OKAO	HEIGHT 451.5451 M	451.5451 M	0.3985 M	FIXED
	LONGITUDE 98° 14' 45.20028" W	-0.0043 M	0.0031 M	FIXED
OKCL	HEIGHT 339.8499 M	-27.7030 M	0.3985 M	
	LONGITUDE 98° 58' 17.24662" W	-0.0029 M	0.0025 M	FIXED
OKDT	HEIGHT 470.0908 M	-1.5670 M	0.3985 M	FIXED
	LONGITUDE 97° 30' 27.66662" W	-0.0064 M	0.0064 M	FIXED
W75671	HEIGHT 367.4792 M	0.0114 M	0.3985 M	
	LONGITUDE 98° 42' 41.93976" W	-0.0002 M	0.0034 M	FIXED
X172	HEIGHT 433.1324 M	-0.0482 M	0.3985 M	FIXED
	LONGITUDE 98° 38' 29.43715" W	0.2121 M	0.0053 M	FIXED

