



## Network Adjustment

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Created: 06/09/2011 16:09:48

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### Project Information

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Project name: 11-017-PreciseOrbs  
 Date created: 06/09/2011 09:36:08  
 Time zone: -8h 00'  
 Coordinate system name: WGS 1984  
 Application software: LEICA Geo Office 5.0  
 Processing kernel: MOVE3 3.4


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### General Information

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#### 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: 2  
 Number of unknown stations: 10  
 Total: 12

#### Observations

GPS coordinate differences: 462 (154 baselines)  
 Known coordinates: 6  
 Total: 468

#### Unknowns

Coordinates: 36  
 Total: 36

Degrees of freedom: 432

#### Testing

Alfa (multi dimensional): 0.8257  
 Alfa 0 (one dimensional): 5.0 %  
 Beta: 90.0 %  
 Sigma a-priori (GPS): 10.0

Critical value W-test:	1.96	
Critical value T-test (2-dimensional):	2.49	
Critical value T-test (3-dimensional):	1.91	
Critical value F-test:	0.94	
F-test:	23.36	 (rejected)

Results based on a-posteriori variance factor

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## Input data

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### Approximate Coordinates

Station	Latitude	Longitude	Height [m]	
1	61° 48' 37.00723" N	147° 30' 54.95468" W	862.5272	
10	62° 57' 11.81452" N	149° 39' 25.27143" W	515.2994	
2	61° 47' 53.49427" N	148° 15' 18.05219" W	512.9363	
3	61° 37' 40.15767" N	149° 07' 14.91914" W	176.3346	
4	61° 34' 28.41668" N	149° 43' 41.78327" W	71.1412	
5	61° 25' 34.10537" N	150° 01' 08.71046" W	69.1219	
6	61° 45' 09.23765" N	150° 03' 19.28258" W	73.8327	
7	62° 06' 16.67515" N	150° 03' 35.21367" W	89.5473	
8	62° 18' 58.08244" N	150° 14' 03.02754" W	122.5496	
9	62° 42' 18.92391" N	150° 13' 16.44988" W	237.6254	
GRNX	63° 50' 07.79888" N	148° 58' 41.39295" W	594.0157	Known in Position and Height
ZAN1	61° 13' 45.12927" N	149° 46' 48.80507" W	79.7938	Known in Position and Height

### Observations

	Station	Target	St. ih	Tg. ih	Reading
DX	GRNX	ZAN1			-242607.7290 m
DY					-95625.1313 m
DZ					-134435.6438 m
DX	10	2			-60305.5263 m
DY					-120984.2885 m
DZ					-59697.2993 m
DX	5	2			79146.2033 m
DY					-61750.2634 m
DZ					20103.5308 m
DX	3	2			37947.3017 m
DY					-30518.1530 m
DZ					9294.2861 m
DX	9	2			-24722.4626 m
DY					-133618.1363 m
DZ					-46825.7991 m
DX	GRNX	2			-153213.7110 m
DY					-136650.1014 m
DZ					-103811.7999 m
DX	ZAN1	2			89394.0122 m
DY					-41024.9781 m
DZ					30623.8188 m

DX	2	8	-8957.8197 m
DY			115118.8248 m
DZ			26704.7015 m
DX	2	7	-22513.4190 m
DY			96875.4247 m
DZ			15685.5875 m
DX	2	6	-52390.6568 m
DY			79397.5767 m
DZ			-2791.7230 m
DX	2	4	-58801.9431 m
DY			55650.0044 m
DZ			-12209.7868 m
DX	1	4	-80408.1859 m
DY			88150.8480 m
DZ			-13154.3802 m
DX	1	4	-80408.1730 m
DY			88150.8398 m
DZ			-13154.3916 m
DX	3	7	15433.8817 m
DY			66357.2733 m
DZ			24979.8781 m
DX	3	7	15433.8851 m
DY			66357.2737 m
DZ			24979.8717 m
DX	GRNX	8	-162171.5298 m
DY			-21531.2704 m
DZ			-77107.1435 m
DX	GRNX	8	-162171.5374 m
DY			-21531.2686 m
DZ			-77107.1294 m
DX	GRNX	7	-175727.1402 m
DY			-39774.6694 m
DZ			-88126.2482 m
DX	GRNX	7	-175727.1289 m
DY			-39774.6748 m
DZ			-88126.2432 m
DX	GRNX	6	-205604.3897 m
DY			-57252.5138 m
DZ			-106603.5495 m
DX	GRNX	6	-205604.3603 m
DY			-57252.4989 m
DZ			-106603.5065 m
DX	GRNX	4	-212015.6738 m
DY			-81000.0841 m
DZ			-116021.6140 m
DX	GRNX	4	-212015.6296 m
DY			-81000.1526 m
DZ			-116021.5753 m
DX	GRNX	3	-191161.0143 m
DY			-106131.9446 m
DZ			-113106.1310 m
DX	GRNX	3	-191161.0147 m
DY			-106131.9420 m

DZ			-113106.1203 m
DX	GRNX	1	-131607.4414 m
DY			-169150.9457 m
DZ			-102867.2431 m
DX	GRNX	1	-131607.4903 m
DY			-169150.9531 m
DZ			-102867.2133 m
DX	ZAN1	8	80436.1934 m
DY			74093.8703 m
DZ			57328.5059 m
DX	ZAN1	8	80436.1961 m
DY			74093.8678 m
DZ			57328.5087 m
DX	ZAN1	7	66880.5936 m
DY			55850.4710 m
DZ			46309.3961 m
DX	ZAN1	7	66880.5923 m
DY			55850.4663 m
DZ			46309.4014 m
DX	ZAN1	6	37003.3544 m
DY			38372.6185 m
DZ			27832.0877 m
DX	ZAN1	6	37003.3570 m
DY			38372.6186 m
DZ			27832.0867 m
DX	ZAN1	4	30592.0684 m
DY			14625.0460 m
DZ			18414.0303 m
DX	ZAN1	4	30592.0708 m
DY			14625.0452 m
DZ			18414.0276 m
DX	ZAN1	3	51446.7121 m
DY			-10506.8027 m
DZ			21329.5197 m
DX	ZAN1	3	51446.7077 m
DY			-10506.8060 m
DZ			21329.5274 m
DX	ZAN1	1	111000.2524 m
DY			-73525.8019 m
DZ			31568.4125 m
DX	ZAN1	1	111000.2543 m
DY			-73525.7966 m
DZ			31568.4073 m
DX	2	1	21606.2355 m
DY			-32500.8481 m
DZ			944.6067 m
DX	2	1	21606.2332 m
DY			-32500.8482 m
DZ			944.6124 m
DX	5	10	139451.7433 m
DY			59234.0310 m
DZ			79800.8050 m
DX	5	10	139451.7236 m

DY			59234.0200 m
DZ			79800.8321 m
DX	GRNX	9	-128491.2469 m
DY			-3031.9588 m
DZ			-56986.0418 m
DX	GRNX	9	-128491.2342 m
DY			-3031.9599 m
DZ			-56986.0485 m
DX	GRNX	5	-232359.9365 m
DY			-74899.8304 m
DZ			-123915.3527 m
DX	GRNX	5	-232359.9230 m
DY			-74899.8228 m
DZ			-123915.3581 m
DX	GRNX	10	-92908.1806 m
DY			-15665.8039 m
DZ			-44114.5464 m
DX	GRNX	10	-92908.1869 m
DY			-15665.8082 m
DZ			-44114.5291 m
DX	ZAN1	9	114116.4787 m
DY			92593.1820 m
DZ			77449.6062 m
DX	ZAN1	9	114116.4629 m
DY			92593.1859 m
DZ			77449.6070 m
DX	ZAN1	5	10247.8040 m
DY			20725.3072 m
DZ			10520.2937 m
DX	ZAN1	5	10247.8064 m
DY			20725.3078 m
DZ			10520.2850 m
DX	ZAN1	10	149699.5475 m
DY			79959.3376 m
DZ			90321.1032 m
DX	ZAN1	10	149699.5191 m
DY			79959.3271 m
DZ			90321.1095 m
DX	10	8	-69263.3490 m
DY			-5865.4645 m
DZ			-32992.5992 m
DX	10	8	-69263.3486 m
DY			-5865.4636 m
DZ			-32992.5951 m
DX	10	8	-69263.3457 m
DY			-5865.4652 m
DZ			-32992.5990 m
DX	10	7	-82818.9517 m
DY			-24108.8668 m
DZ			-44011.7034 m
DX	10	7	-82818.9712 m
DY			-24108.8387 m
DZ			-44011.7102 m

DX	10	7	-82818.9426 m
DY			-24108.8617 m
DZ			-44011.7158 m
DX	10	6	-112696.1922 m
DY			-41586.7188 m
DZ			-62489.0136 m
DX	10	6	-112696.2024 m
DY			-41586.7009 m
DZ			-62489.0118 m
DX	10	6	-112696.1852 m
DY			-41586.7186 m
DZ			-62489.0216 m
DX	10	4	-119107.4794 m
DY			-65334.2910 m
DZ			-71907.0686 m
DX	10	4	-119107.4514 m
DY			-65334.2826 m
DZ			-71907.0798 m
DX	10	4	-119107.4632 m
DY			-65334.2833 m
DZ			-71907.0915 m
DX	10	3	-98252.8457 m
DY			-90466.1374 m
DZ			-68991.5749 m
DX	10	3	-98252.8144 m
DY			-90466.1362 m
DZ			-68991.5871 m
DX	10	3	-98252.8343 m
DY			-90466.1410 m
DZ			-68991.5811 m
DX	10	1	-38699.2944 m
DY			-153485.1381 m
DZ			-58752.6874 m
DX	10	1	-38699.2912 m
DY			-153485.1408 m
DZ			-58752.6862 m
DX	10	1	-38699.2937 m
DY			-153485.1368 m
DZ			-58752.6874 m
DX	5	8	70188.3912 m
DY			53368.5637 m
DZ			46808.2129 m
DX	5	8	70188.3929 m
DY			53368.5651 m
DZ			46808.2117 m
DX	5	8	70188.3810 m
DY			53368.5574 m
DZ			46808.2281 m
DX	5	7	56632.7901 m
DY			35125.1636 m
DZ			35789.1044 m
DX	5	7	56632.7914 m
DY			35125.1659 m

DZ			35789.1081 m
DX	5	7	56632.7820 m
DY			35125.1573 m
DZ			35789.1161 m
DX	5	6	26755.5513 m
DY			17647.3120 m
DZ			17311.7943 m
DX	5	6	26755.5467 m
DY			17647.3098 m
DZ			17311.8056 m
DX	5	6	26755.5478 m
DY			17647.3103 m
DZ			17311.8017 m
DX	5	4	20344.2651 m
DY			-6100.2600 m
DZ			7893.7364 m
DX	5	4	20344.2629 m
DY			-6100.2627 m
DZ			7893.7459 m
DX	5	4	20344.2636 m
DY			-6100.2609 m
DZ			7893.7366 m
DX	5	3	41198.9091 m
DY			-31232.1092 m
DZ			10809.2255 m
DX	5	3	41198.9079 m
DY			-31232.1111 m
DZ			10809.2334 m
DX	5	3	41198.8983 m
DY			-31232.1144 m
DZ			10809.2459 m
DX	5	1	100752.4514 m
DY			-94251.1071 m
DZ			21048.1156 m
DX	5	1	100752.4523 m
DY			-94251.1094 m
DZ			21048.1172 m
DX	5	1	100752.4237 m
DY			-94251.1099 m
DZ			21048.1722 m
DX	1	7	-44119.6569 m
DY			129376.2733 m
DZ			14740.9853 m
DX	1	7	-44119.6351 m
DY			129376.1892 m
DZ			14740.9876 m
DX	1	7	-44119.6522 m
DY			129376.2724 m
DZ			14740.9738 m
DX	1	6	-73996.8979 m
DY			111898.4205 m
DZ			-3736.3250 m
DX	1	6	-73996.8625 m

DY			111898.3663 m
DZ			-3736.3302 m
DX	1	6	-73996.8813 m
DY			111898.4269 m
DZ			-3736.3522 m
DX	7	6	-29877.2388 m
DY			-17477.8517 m
DZ			-18477.3100 m
DX	7	6	-29877.2699 m
DY			-17477.8054 m
DZ			-18477.3314 m
DX	7	6	-29877.2337 m
DY			-17477.8484 m
DZ			-18477.3147 m
DX	7	4	-36288.5255 m
DY			-41225.4241 m
DZ			-27895.3671 m
DX	7	4	-36288.5292 m
DY			-41225.4241 m
DZ			-27895.3640 m
DX	7	4	-36288.5194 m
DY			-41225.4210 m
DZ			-27895.3773 m
DX	3	8	28989.4830 m
DY			84600.6734 m
DZ			35998.9856 m
DX	3	8	28989.4772 m
DY			84600.6750 m
DZ			35998.9823 m
DX	3	8	28989.4841 m
DY			84600.6731 m
DZ			35998.9843 m
DX	3	6	-14443.3566 m
DY			48879.4222 m
DZ			6502.5675 m
DX	3	6	-14443.3654 m
DY			48879.4198 m
DZ			6502.5611 m
DX	3	6	-14443.3503 m
DY			48879.4241 m
DZ			6502.5573 m
DX	3	4	-20854.6434 m
DY			25131.8497 m
DZ			-2915.4895 m
DX	3	4	-20854.6473 m
DY			25131.8479 m
DZ			-2915.4973 m
DX	3	4	-20854.6347 m
DY			25131.8529 m
DZ			-2915.5075 m
DX	3	1	59553.5396 m
DY			-63018.9994 m
DZ			10238.8913 m



DX	3	1	59553.5300 m
DY			-63019.0054 m
DZ			10238.8906 m
DX	3	1	59553.5341 m
DY			-63019.0007 m
DZ			10238.9042 m
DX	9	8	-33680.2819 m
DY			-18499.3105 m
DZ			-20121.1009 m
DX	9	8	-33680.2819 m
DY			-18499.3096 m
DZ			-20121.1039 m
DX	9	8	-33680.2816 m
DY			-18499.3106 m
DZ			-20121.1003 m
DX	9	7	-47235.8833 m
DY			-36742.7110 m
DZ			-31140.2088 m
DX	9	7	-47235.8818 m
DY			-36742.7095 m
DZ			-31140.2040 m
DX	9	7	-47235.8813 m
DY			-36742.7102 m
DZ			-31140.2122 m
DX	9	6	-77113.1218 m
DY			-54220.5620 m
DZ			-49617.5194 m
DX	9	6	-77113.1256 m
DY			-54220.5646 m
DZ			-49617.5094 m
DX	9	6	-77113.1141 m
DY			-54220.5579 m
DZ			-49617.5298 m
DX	9	4	-83524.4096 m
DY			-77968.1347 m
DZ			-59035.5760 m
DX	9	4	-83524.4118 m
DY			-77968.1385 m
DZ			-59035.5664 m
DX	9	4	-83524.3942 m
DY			-77968.1259 m
DZ			-59035.5993 m
DX	9	3	-62669.7655 m
DY			-103099.9844 m
DZ			-56120.0861 m
DX	9	3	-62669.7703 m
DY			-103099.9881 m
DZ			-56120.0752 m
DX	9	3	-62669.7632 m
DY			-103099.9827 m
DZ			-56120.0891 m
DX	9	1	-3116.2283 m
DY			-166118.9848 m

DZ			-45881.1916 m
DX	9	1	-3116.2272 m
DY			-166118.9871 m
DZ			-45881.1787 m
DX	9	1	-3116.2301 m
DY			-166118.9843 m
DZ			-45881.1870 m
DX	6	4	-6411.2860 m
DY			-23747.5721 m
DZ			-9418.0581 m
DX	6	4	-6411.2889 m
DY			-23747.5740 m
DZ			-9418.0576 m
DX	6	4	-6411.2846 m
DY			-23747.5716 m
DZ			-9418.0632 m
DX	8	7	-13555.6009 m
DY			-18243.4000 m
DZ			-11019.1079 m
DX	8	7	-13555.5977 m
DY			-18243.3985 m
DZ			-11019.1027 m
DX	8	7	-13555.5988 m
DY			-18243.3986 m
DZ			-11019.1145 m
DX	8	6	-43432.8393 m
DY			-35721.2515 m
DZ			-29496.4187 m
DX	8	6	-43432.8410 m
DY			-35721.2528 m
DZ			-29496.4099 m
DX	8	6	-43432.8338 m
DY			-35721.2489 m
DZ			-29496.4268 m
DX	8	4	-49844.1264 m
DY			-59468.8240 m
DZ			-38914.4752 m
DX	8	4	-49844.1282 m
DY			-59468.8260 m
DZ			-38914.4738 m
DX	8	4	-49844.1185 m
DY			-59468.8203 m
DZ			-38914.4896 m
DX	8	1	30564.0554 m
DY			-147619.6742 m
DZ			-25760.0905 m
DX	8	1	30564.0550 m
DY			-147619.6751 m
DZ			-25760.0839 m
DX	8	1	30564.0519 m
DY			-147619.6730 m
DZ			-25760.0869 m
DX	10	9	-35583.0655 m

DY			12633.8461 m
DZ			-12871.4962 m
DX	10	9	-35583.0735 m
DY			12633.8937 m
DZ			-12871.5155 m
DX	10	9	-35583.0597 m
DY			12633.8510 m
DZ			-12871.5035 m
DX	5	9	103868.6748 m
DY			71867.8750 m
DZ			66929.3121 m
DX	5	9	103868.6845 m
DY			71867.8625 m
DZ			66929.3125 m
DX	5	9	103868.6615 m
DY			71867.8671 m
DZ			66929.3332 m

**Standard deviations**

	<b>Station</b>	<b>Target</b>	<b>Sd. abs / Cor</b>	<b>Sd. rel / Cor</b>	<b>Sd. tot / Cor</b>
DX	GRNX	ZAN1	0.0061 m	-	-
DY			0.4077	0.0053 m	-
DZ			-0.3981	-0.3246	0.0108 m
DX	10	2	0.0011 m	-	-
DY			0.5435	0.0010 m	-
DZ			-0.4691	-0.4053	0.0019 m
DX	5	2	0.0018 m	-	-
DY			0.5780	0.0015 m	-
DZ			-0.5431	-0.4404	0.0031 m
DX	3	2	0.0014 m	-	-
DY			0.5318	0.0012 m	-
DZ			-0.4806	-0.3876	0.0023 m
DX	9	2	0.0012 m	-	-
DY			0.5279	0.0010 m	-
DZ			-0.4712	-0.3927	0.0020 m
DX	GRNX	2	0.0192 m	-	-
DY			0.8193	0.0159 m	-
DZ			-0.7529	-0.7550	0.0259 m
DX	ZAN1	2	0.0051 m	-	-
DY			0.6383	0.0042 m	-
DZ			-0.6327	-0.5095	0.0070 m
DX	2	8	0.0013 m	-	-
DY			0.5249	0.0011 m	-
DZ			-0.4960	-0.4103	0.0023 m
DX	2	7	0.0012 m	-	-
DY			0.5343	0.0010 m	-
DZ			-0.4939	-0.4046	0.0020 m
DX	2	6	0.0017 m	-	-
DY			0.5524	0.0014 m	-
DZ			-0.4951	-0.4570	0.0029 m
DX	2	4	0.0017 m	-	-
DY			0.5597	0.0014 m	-
DZ			-0.5001	-0.4304	0.0028 m

DX	1	4	0.0013 m	-	-
DY			0.4727	0.0011 m	-
DZ			-0.3679	-0.2748	0.0024 m
DX	1	4	0.0028 m	-	-
DY			0.4366	0.0023 m	-
DZ			-0.4440	-0.3768	0.0051 m
DX	3	7	0.0013 m	-	-
DY			0.4011	0.0011 m	-
DZ			-0.3857	-0.2499	0.0024 m
DX	3	7	0.0011 m	-	-
DY			0.4366	0.0010 m	-
DZ			-0.4065	-0.3696	0.0021 m
DX	GRNX	8	0.0027 m	-	-
DY			0.4185	0.0022 m	-
DZ			-0.3395	-0.2401	0.0050 m
DX	GRNX	8	0.0013 m	-	-
DY			-0.3736	0.0014 m	-
DZ			-0.4133	-0.1572	0.0013 m
DX	GRNX	7	0.0037 m	-	-
DY			0.4046	0.0034 m	-
DZ			-0.3444	-0.2466	0.0068 m
DX	GRNX	7	0.0040 m	-	-
DY			0.5753	0.0032 m	-
DZ			-0.4853	-0.3109	0.0066 m
DX	GRNX	6	0.0045 m	-	-
DY			0.4272	0.0039 m	-
DZ			-0.3710	-0.2646	0.0076 m
DX	GRNX	6	0.0093 m	-	-
DY			0.6136	0.0104 m	-
DZ			-0.1653	-0.2558	0.0189 m
DX	GRNX	4	0.0051 m	-	-
DY			0.4895	0.0040 m	-
DZ			-0.4344	-0.2674	0.0081 m
DX	GRNX	4	0.0107 m	-	-
DY			0.6248	0.0105 m	-
DZ			-0.4554	-0.3329	0.0191 m
DX	GRNX	3	0.0036 m	-	-
DY			0.4186	0.0032 m	-
DZ			-0.3682	-0.2576	0.0063 m
DX	GRNX	3	0.0018 m	-	-
DY			-0.4432	0.0016 m	-
DZ			-0.4713	-0.0819	0.0015 m
DX	GRNX	1	0.0074 m	-	-
DY			0.2926	0.0058 m	-
DZ			-0.3862	-0.2522	0.0124 m
DX	GRNX	1	0.0058 m	-	-
DY			0.6544	0.0059 m	-
DZ			-0.4665	-0.3611	0.0109 m
DX	ZAN1	8	0.0016 m	-	-
DY			0.3781	0.0013 m	-
DZ			-0.3763	-0.2511	0.0030 m
DX	ZAN1	8	0.0022 m	-	-
DY			0.3838	0.0018 m	-

DZ			-0.2996	-0.3374	0.0045 m
DX	ZAN1	7	0.0013 m	-	-
DY			0.3861	0.0011 m	-
DZ			-0.3783	-0.2654	0.0025 m
DX	ZAN1	7	0.0015 m	-	-
DY			0.5120	0.0013 m	-
DZ			-0.4863	-0.4743	0.0026 m
DX	ZAN1	6	0.0012 m	-	-
DY			0.3915	0.0010 m	-
DZ			-0.3630	-0.2464	0.0022 m
DX	ZAN1	6	0.0014 m	-	-
DY			0.4147	0.0011 m	-
DZ			-0.4558	-0.4042	0.0024 m
DX	ZAN1	4	0.0010 m	-	-
DY			0.4119	0.0009 m	-
DZ			-0.3853	-0.2525	0.0020 m
DX	ZAN1	4	0.0017 m	-	-
DY			0.3909	0.0013 m	-
DZ			-0.4433	-0.4281	0.0030 m
DX	ZAN1	3	0.0014 m	-	-
DY			0.4017	0.0012 m	-
DZ			-0.3839	-0.2466	0.0026 m
DX	ZAN1	3	0.0014 m	-	-
DY			0.4576	0.0011 m	-
DZ			-0.4320	-0.4225	0.0025 m
DX	ZAN1	1	0.0019 m	-	-
DY			0.5031	0.0016 m	-
DZ			-0.3847	-0.3181	0.0034 m
DX	ZAN1	1	0.0052 m	-	-
DY			0.5250	0.0043 m	-
DZ			-0.4222	-0.4288	0.0095 m
DX	2	1	0.0057 m	-	-
DY			0.5958	0.0038 m	-
DZ			-0.4211	-0.5295	0.0081 m
DX	2	1	0.0011 m	-	-
DY			0.5228	0.0009 m	-
DZ			-0.4663	-0.4003	0.0018 m
DX	5	10	0.0018 m	-	-
DY			0.3899	0.0014 m	-
DZ			-0.3453	-0.2586	0.0032 m
DX	5	10	0.0020 m	-	-
DY			0.3889	0.0015 m	-
DZ			-0.4222	-0.2641	0.0038 m
DX	GRNX	9	0.0022 m	-	-
DY			0.3929	0.0018 m	-
DZ			-0.3690	-0.2479	0.0043 m
DX	GRNX	9	0.0094 m	-	-
DY			0.5681	0.0067 m	-
DZ			-0.3467	-0.3968	0.0160 m
DX	GRNX	5	0.0044 m	-	-
DY			0.3310	0.0035 m	-
DZ			-0.4051	-0.2236	0.0080 m
DX	GRNX	5	0.0012 m	-	-

DY			-0.4003	0.0012 m	-
DZ			-0.4570	-0.1345	0.0011 m
DX	GRNX	10	0.0019 m	-	-
DY			0.4139	0.0017 m	-
DZ			-0.3366	-0.2721	0.0039 m
DX	GRNX	10	0.0020 m	-	-
DY			0.4210	0.0017 m	-
DZ			-0.3705	-0.3208	0.0041 m
DX	ZAN1	9	0.0016 m	-	-
DY			0.4114	0.0014 m	-
DZ			-0.3880	-0.2527	0.0031 m
DX	ZAN1	9	0.0047 m	-	-
DY			0.4437	0.0035 m	-
DZ			-0.4168	-0.3744	0.0080 m
DX	ZAN1	5	0.0013 m	-	-
DY			0.3946	0.0011 m	-
DZ			-0.3783	-0.2475	0.0025 m
DX	ZAN1	5	0.0014 m	-	-
DY			0.3801	0.0011 m	-
DZ			-0.3615	-0.3527	0.0027 m
DX	ZAN1	10	0.0023 m	-	-
DY			0.4431	0.0018 m	-
DZ			-0.3372	-0.2977	0.0044 m
DX	ZAN1	10	0.0045 m	-	-
DY			0.5134	0.0038 m	-
DZ			-0.3922	-0.3475	0.0087 m
DX	10	8	0.0016 m	-	-
DY			0.4157	0.0014 m	-
DZ			-0.3444	-0.2766	0.0031 m
DX	10	8	0.0040 m	-	-
DY			0.4521	0.0032 m	-
DZ			-0.4567	-0.2586	0.0071 m
DX	10	8	0.0016 m	-	-
DY			0.3783	0.0013 m	-
DZ			-0.3949	-0.2719	0.0031 m
DX	10	7	0.0015 m	-	-
DY			0.4252	0.0013 m	-
DZ			-0.3521	-0.2895	0.0029 m
DX	10	7	0.0057 m	-	-
DY			-0.4223	0.0056 m	-
DZ			0.1414	-0.4480	0.0047 m
DX	10	7	0.0012 m	-	-
DY			0.4909	0.0011 m	-
DZ			-0.4806	-0.3716	0.0023 m
DX	10	6	0.0018 m	-	-
DY			0.4572	0.0014 m	-
DZ			-0.3790	-0.2932	0.0032 m
DX	10	6	0.0029 m	-	-
DY			-0.5203	0.0037 m	-
DZ			0.1341	-0.5170	0.0027 m
DX	10	6	0.0016 m	-	-
DY			0.4886	0.0014 m	-
DZ			-0.4288	-0.3714	0.0029 m

DX	10	4	0.0019 m	-	-
DY			0.4331	0.0013 m	-
DZ			-0.3959	-0.2819	0.0030 m
DX	10	4	0.0042 m	-	-
DY			0.4698	0.0034 m	-
DZ			-0.3330	-0.3157	0.0083 m
DX	10	4	0.0017 m	-	-
DY			0.4447	0.0014 m	-
DZ			-0.4121	-0.3642	0.0030 m
DX	10	3	0.0026 m	-	-
DY			0.4482	0.0023 m	-
DZ			-0.4221	-0.3428	0.0051 m
DX	10	3	0.0062 m	-	-
DY			0.4786	0.0046 m	-
DZ			-0.4534	-0.2814	0.0102 m
DX	10	3	0.0016 m	-	-
DY			0.4630	0.0012 m	-
DZ			-0.4149	-0.3234	0.0026 m
DX	10	1	0.0014 m	-	-
DY			0.4803	0.0012 m	-
DZ			-0.3485	-0.2098	0.0026 m
DX	10	1	0.0020 m	-	-
DY			0.4373	0.0016 m	-
DZ			-0.3008	-0.3159	0.0038 m
DX	10	1	0.0008 m	-	-
DY			0.4593	0.0007 m	-
DZ			-0.4194	-0.3703	0.0015 m
DX	5	8	0.0015 m	-	-
DY			0.3763	0.0013 m	-
DZ			-0.3750	-0.2570	0.0030 m
DX	5	8	0.0044 m	-	-
DY			0.4573	0.0035 m	-
DZ			-0.4631	-0.2613	0.0077 m
DX	5	8	0.0015 m	-	-
DY			0.3899	0.0013 m	-
DZ			-0.3955	-0.2889	0.0033 m
DX	5	7	0.0013 m	-	-
DY			0.3876	0.0011 m	-
DZ			-0.3842	-0.2689	0.0025 m
DX	5	7	0.0035 m	-	-
DY			0.4435	0.0028 m	-
DZ			-0.3975	-0.2680	0.0065 m
DX	5	7	0.0015 m	-	-
DY			0.5174	0.0013 m	-
DZ			-0.4769	-0.3848	0.0031 m
DX	5	6	0.0012 m	-	-
DY			0.3967	0.0010 m	-
DZ			-0.3792	-0.2530	0.0023 m
DX	5	6	0.0027 m	-	-
DY			0.3517	0.0021 m	-
DZ			-0.3102	-0.1770	0.0055 m
DX	5	6	0.0014 m	-	-
DY			0.4332	0.0011 m	-

DZ			-0.4358	-0.3710	0.0026 m
DX	5	4	0.0011 m	-	-
DY			0.3937	0.0010 m	-
DZ			-0.3778	-0.2457	0.0021 m
DX	5	4	0.0024 m	-	-
DY			0.4466	0.0018 m	-
DZ			-0.3230	-0.2243	0.0047 m
DX	5	4	0.0012 m	-	-
DY			0.4223	0.0010 m	-
DZ			-0.3723	-0.2758	0.0024 m
DX	5	3	0.0014 m	-	-
DY			0.4054	0.0012 m	-
DZ			-0.3818	-0.2530	0.0027 m
DX	5	3	0.0034 m	-	-
DY			0.4141	0.0030 m	-
DZ			-0.4157	-0.2286	0.0066 m
DX	5	3	0.0011 m	-	-
DY			0.4755	0.0009 m	-
DZ			-0.4418	-0.3790	0.0020 m
DX	5	1	0.0017 m	-	-
DY			0.4840	0.0015 m	-
DZ			-0.3669	-0.2939	0.0032 m
DX	5	1	0.0035 m	-	-
DY			0.6057	0.0023 m	-
DZ			-0.4576	-0.4199	0.0052 m
DX	5	1	0.0023 m	-	-
DY			0.5217	0.0020 m	-
DZ			-0.4773	-0.4141	0.0053 m
DX	1	7	0.0014 m	-	-
DY			0.4722	0.0012 m	-
DZ			-0.3791	-0.2902	0.0026 m
DX	1	7	0.0142 m	-	-
DY			-0.8894	0.0407 m	-
DZ			0.2046	-0.4360	0.0085 m
DX	1	7	0.0012 m	-	-
DY			0.4922	0.0010 m	-
DZ			-0.4902	-0.3847	0.0021 m
DX	1	6	0.0015 m	-	-
DY			0.4651	0.0012 m	-
DZ			-0.3630	-0.2723	0.0027 m
DX	1	6	0.0150 m	-	-
DY			-0.3425	0.0272 m	-
DZ			-0.2872	-0.0353	0.0127 m
DX	1	6	0.0017 m	-	-
DY			0.4971	0.0014 m	-
DZ			-0.5128	-0.4172	0.0030 m
DX	7	6	0.0011 m	-	-
DY			0.3981	0.0010 m	-
DZ			-0.3844	-0.2738	0.0021 m
DX	7	6	0.0314 m	-	-
DY			-0.5518	0.0584 m	-
DZ			-0.0350	-0.3511	0.0294 m
DX	7	6	0.0012 m	-	-



DY			0.4962	0.0011 m	-
DZ			-0.4361	-0.4100	0.0021 m
DX	7	4	0.0010 m	-	-
DY			0.3955	0.0009 m	-
DZ			-0.3864	-0.2684	0.0020 m
DX	7	4	0.0041 m	-	-
DY			0.3907	0.0028 m	-
DZ			-0.1445	-0.3198	0.0073 m
DX	7	4	0.0012 m	-	-
DY			0.4855	0.0011 m	-
DZ			-0.4498	-0.4379	0.0023 m
DX	3	8	0.0015 m	-	-
DY			0.3930	0.0013 m	-
DZ			-0.3832	-0.2428	0.0028 m
DX	3	8	0.0110 m	-	-
DY			0.2735	0.0086 m	-
DZ			0.0805	-0.2444	0.0332 m
DX	3	8	0.0012 m	-	-
DY			0.4199	0.0010 m	-
DZ			-0.3989	-0.3174	0.0023 m
DX	3	6	0.0013 m	-	-
DY			0.3990	0.0011 m	-
DZ			-0.3874	-0.2505	0.0024 m
DX	3	6	0.0052 m	-	-
DY			0.3848	0.0034 m	-
DZ			0.1551	-0.0997	0.0143 m
DX	3	6	0.0010 m	-	-
DY			0.4503	0.0008 m	-
DZ			-0.4590	-0.3775	0.0019 m
DX	3	4	0.0012 m	-	-
DY			0.3992	0.0011 m	-
DZ			-0.3878	-0.2422	0.0023 m
DX	3	4	0.0041 m	-	-
DY			0.4463	0.0026 m	-
DZ			-0.0691	-0.2587	0.0074 m
DX	3	4	0.0011 m	-	-
DY			0.4466	0.0009 m	-
DZ			-0.4359	-0.3825	0.0019 m
DX	3	1	0.0016 m	-	-
DY			0.4799	0.0014 m	-
DZ			-0.3811	-0.2896	0.0029 m
DX	3	1	0.0051 m	-	-
DY			0.4304	0.0031 m	-
DZ			-0.2338	-0.3550	0.0086 m
DX	3	1	0.0013 m	-	-
DY			0.4895	0.0011 m	-
DZ			-0.4872	-0.3632	0.0024 m
DX	9	8	0.0014 m	-	-
DY			0.3785	0.0012 m	-
DZ			-0.3811	-0.2368	0.0028 m
DX	9	8	0.0066 m	-	-
DY			0.4065	0.0050 m	-
DZ			-0.3697	-0.2428	0.0117 m

DX	9	8	0.0015 m	-	-
DY			0.3968	0.0012 m	-
DZ			-0.3873	-0.2889	0.0029 m
DX	9	7	0.0012 m	-	-
DY			0.3928	0.0011 m	-
DZ			-0.3880	-0.2453	0.0024 m
DX	9	7	0.0043 m	-	-
DY			0.3745	0.0035 m	-
DZ			-0.2502	-0.2347	0.0092 m
DX	9	7	0.0012 m	-	-
DY			0.4525	0.0011 m	-
DZ			-0.4358	-0.3298	0.0023 m
DX	9	6	0.0013 m	-	-
DY			0.3936	0.0011 m	-
DZ			-0.3923	-0.2485	0.0025 m
DX	9	6	0.0033 m	-	-
DY			0.3845	0.0025 m	-
DZ			-0.1660	-0.1676	0.0072 m
DX	9	6	0.0014 m	-	-
DY			0.4889	0.0012 m	-
DZ			-0.4582	-0.4049	0.0027 m
DX	9	4	0.0013 m	-	-
DY			0.3883	0.0011 m	-
DZ			-0.3910	-0.2419	0.0024 m
DX	9	4	0.0027 m	-	-
DY			0.3300	0.0019 m	-
DZ			-0.1705	-0.1902	0.0060 m
DX	9	4	0.0014 m	-	-
DY			0.4707	0.0012 m	-
DZ			-0.4371	-0.3532	0.0027 m
DX	9	3	0.0014 m	-	-
DY			0.4201	0.0012 m	-
DZ			-0.3979	-0.2503	0.0026 m
DX	9	3	0.0044 m	-	-
DY			0.3943	0.0037 m	-
DZ			-0.3139	-0.2335	0.0088 m
DX	9	3	0.0013 m	-	-
DY			0.4138	0.0010 m	-
DZ			-0.3964	-0.3156	0.0025 m
DX	9	1	0.0015 m	-	-
DY			0.4895	0.0014 m	-
DZ			-0.3615	-0.2206	0.0029 m
DX	9	1	0.0028 m	-	-
DY			0.4507	0.0021 m	-
DZ			-0.2168	-0.3099	0.0053 m
DX	9	1	0.0010 m	-	-
DY			0.4796	0.0009 m	-
DZ			-0.4632	-0.3712	0.0018 m
DX	6	4	0.0009 m	-	-
DY			0.3961	0.0008 m	-
DZ			-0.3726	-0.2440	0.0018 m
DX	6	4	0.0066 m	-	-
DY			0.3870	0.0042 m	-

DZ			-0.2321	-0.4086	0.0108 m
DX	6	4	0.0011 m	-	-
DY			0.4302	0.0009 m	-
DZ			-0.4251	-0.3762	0.0021 m
DX	8	7	0.0013 m	-	-
DY			0.3912	0.0012 m	-
DZ			-0.3859	-0.2644	0.0025 m
DX	8	7	0.0088 m	-	-
DY			0.2551	0.0056 m	-
DZ			0.2694	-0.3511	0.0253 m
DX	8	7	0.0014 m	-	-
DY			0.4530	0.0012 m	-
DZ			-0.4246	-0.3440	0.0027 m
DX	8	6	0.0013 m	-	-
DY			0.3883	0.0012 m	-
DZ			-0.3846	-0.2657	0.0026 m
DX	8	6	0.0040 m	-	-
DY			0.2489	0.0028 m	-
DZ			0.0653	-0.1728	0.0101 m
DX	8	6	0.0013 m	-	-
DY			0.4108	0.0011 m	-
DZ			-0.3836	-0.3345	0.0024 m
DX	8	4	0.0013 m	-	-
DY			0.3820	0.0011 m	-
DZ			-0.3850	-0.2546	0.0025 m
DX	8	4	0.0033 m	-	-
DY			0.2834	0.0022 m	-
DZ			-0.0591	-0.2489	0.0070 m
DX	8	4	0.0013 m	-	-
DY			0.4115	0.0011 m	-
DZ			-0.4037	-0.3320	0.0025 m
DX	8	1	0.0017 m	-	-
DY			0.4851	0.0015 m	-
DZ			-0.3844	-0.2850	0.0031 m
DX	8	1	0.0037 m	-	-
DY			0.4610	0.0025 m	-
DZ			-0.1606	-0.3387	0.0065 m
DX	8	1	0.0012 m	-	-
DY			0.4904	0.0010 m	-
DZ			-0.4857	-0.3872	0.0021 m
DX	10	9	0.0013 m	-	-
DY			0.4099	0.0012 m	-
DZ			-0.3456	-0.2643	0.0027 m
DX	10	9	0.0177 m	-	-
DY			-0.0295	0.0159 m	-
DZ			0.0091	-0.1413	0.0133 m
DX	10	9	0.0012 m	-	-
DY			0.3691	0.0010 m	-
DZ			-0.3764	-0.2829	0.0024 m
DX	5	9	0.0015 m	-	-
DY			0.3832	0.0012 m	-
DZ			-0.3702	-0.2354	0.0029 m
DX	5	9	0.0151 m	-	-

DY			-0.0082	0.0152 m	-
DZ			0.0097	-0.1581	0.0116 m
DX	5	9	0.0021 m	-	-
DY			0.4723	0.0017 m	-
DZ			-0.4518	-0.2577	0.0043 m

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## Adjustment Results

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### Coordinates

Station	Coordinate	Corr	Sd		
1	Latitude	61° 48' 37.00792" N	0.0214 m	0.0020 m	
	Longitude	147° 30' 54.95489" W	-0.0030 m	0.0014 m	
	Height	862.5073 m	-0.0198 m	0.0038 m	
10	Latitude	62° 57' 11.81529" N	0.0238 m	0.0020 m	
	Longitude	149° 39' 25.27183" W	-0.0055 m	0.0015 m	
	Height	515.2772 m	-0.0222 m	0.0038 m	
2	Latitude	61° 47' 53.49494" N	0.0208 m	0.0023 m	
	Longitude	148° 15' 18.05244" W	-0.0036 m	0.0017 m	
	Height	512.9204 m	-0.0160 m	0.0046 m	
3	Latitude	61° 37' 40.15839" N	0.0222 m	0.0017 m	
	Longitude	149° 07' 14.91945" W	-0.0046 m	0.0014 m	
	Height	176.3194 m	-0.0152 m	0.0033 m	
4	Latitude	61° 34' 28.41727" N	0.0183 m	0.0018 m	
	Longitude	149° 43' 41.78356" W	-0.0043 m	0.0014 m	
	Height	71.1298 m	-0.0114 m	0.0034 m	
5	Latitude	61° 25' 34.10603" N	0.0203 m	0.0017 m	
	Longitude	150° 01' 08.71085" W	-0.0057 m	0.0014 m	
	Height	69.1184 m	-0.0036 m	0.0032 m	
6	Latitude	61° 45' 09.23825" N	0.0184 m	0.0018 m	
	Longitude	150° 03' 19.28291" W	-0.0048 m	0.0014 m	
	Height	73.8248 m	-0.0079 m	0.0035 m	
7	Latitude	62° 06' 16.67578" N	0.0195 m	0.0018 m	
	Longitude	150° 03' 35.21400" W	-0.0048 m	0.0014 m	
	Height	89.5350 m	-0.0124 m	0.0035 m	
8	Latitude	62° 18' 58.08318" N	0.0231 m	0.0018 m	
	Longitude	150° 14' 03.02794" W	-0.0058 m	0.0014 m	
	Height	122.5348 m	-0.0149 m	0.0034 m	
9	Latitude	62° 42' 18.92453" N	0.0192 m	0.0019 m	
	Longitude	150° 13' 16.45017" W	-0.0042 m	0.0014 m	
	Height	237.6121 m	-0.0133 m	0.0038 m	
GRNX	Latitude	63° 50' 07.79888" N	0.0000 m	-	fixed
	Longitude	148° 58' 41.39295" W	0.0000 m	-	fixed
	Height	594.0157 m	0.0000 m	-	fixed
ZAN1	Latitude	61° 13' 45.12927" N	0.0000 m	-	fixed
	Longitude	149° 46' 48.80507" W	0.0000 m	-	fixed
	Height	79.7938 m	0.0000 m	-	fixed

### Observations and Residuals

	Station	Target	Adj obs	Resid	Resid (ENH)	Sd
<b>DX</b>	GRNX	ZAN1	-242607.7557 m	0.0267 m	-0.0296 m	0.0000 m
<b>DY</b>			-95625.1820 m	0.0507 m	0.0429 m	0.0000 m

DZ			-134435.6413 m	-0.0025 m	-0.0238 m	0.0000 m
DX	10	2	-60305.5285 m	0.0022 m	-0.0009 m	0.0025 m
DY			-120984.2909 m	0.0024 m	0.0013 m	0.0021 m
DZ			-59697.2961 m	-0.0032 m	-0.0043 m	0.0043 m
DX	5	2	79146.2053 m	-0.0020 m	-0.0024 m	0.0026 m
DY			-61750.2650 m	0.0016 m	0.0042 m	0.0021 m
DZ			20103.5204 m	0.0104 m	0.0096 m	0.0044 m
DX	3	2	37947.3032 m	-0.0014 m	0.0001 m	0.0025 m
DY			-30518.1521 m	-0.0009 m	-0.0010 m	0.0021 m
DZ			9294.2849 m	0.0012 m	0.0018 m	0.0043 m
DX	9	2	-24722.4627 m	0.0001 m	-0.0001 m	0.0025 m
DY			-133618.1365 m	0.0002 m	-0.0001 m	0.0021 m
DZ			-46825.7985 m	-0.0006 m	-0.0006 m	0.0043 m
DX	GRNX	2	-153213.7300 m	0.0189 m	-0.0101 m	0.0026 m
DY			-136650.1246 m	0.0232 m	0.0383 m	0.0022 m
DZ			-103811.8293 m	0.0294 m	0.0140 m	0.0043 m
DX	ZAN1	2	89394.0257 m	-0.0136 m	0.0239 m	0.0026 m
DY			-41024.9426 m	-0.0356 m	-0.0227 m	0.0022 m
DZ			30623.8120 m	0.0069 m	0.0203 m	0.0043 m
DX	2	8	-8957.8184 m	-0.0013 m	0.0007 m	0.0025 m
DY			115118.8264 m	-0.0016 m	-0.0012 m	0.0021 m
DZ			26704.7005 m	0.0010 m	0.0018 m	0.0043 m
DX	2	7	-22513.4207 m	0.0017 m	0.0008 m	0.0024 m
DY			96875.4246 m	0.0001 m	0.0011 m	0.0020 m
DZ			15685.5880 m	-0.0005 m	-0.0011 m	0.0042 m
DX	2	6	-52390.6585 m	0.0017 m	-0.0018 m	0.0025 m
DY			79397.5735 m	0.0032 m	0.0027 m	0.0021 m
DZ			-2791.7228 m	-0.0002 m	-0.0016 m	0.0043 m
DX	2	4	-58801.9442 m	0.0011 m	-0.0020 m	0.0025 m
DY			55650.0015 m	0.0030 m	0.0004 m	0.0021 m
DZ			-12209.7830 m	-0.0038 m	-0.0045 m	0.0043 m
DX	1	4	-80408.1786 m	-0.0073 m	-0.0031 m	0.0020 m
DY			88150.8490 m	-0.0010 m	0.0000 m	0.0017 m
DZ			-13154.3927 m	0.0125 m	0.0142 m	0.0036 m
DX	1	4	-80408.1786 m	0.0056 m	0.0107 m	0.0020 m
DY			88150.8490 m	-0.0091 m	0.0004 m	0.0017 m
DZ			-13154.3927 m	0.0011 m	0.0010 m	0.0036 m
DX	3	7	15433.8825 m	-0.0008 m	-0.0011 m	0.0018 m
DY			66357.2725 m	0.0008 m	0.0022 m	0.0016 m
DZ			24979.8729 m	0.0052 m	0.0047 m	0.0034 m
DX	3	7	15433.8825 m	0.0026 m	0.0003 m	0.0018 m
DY			66357.2725 m	0.0013 m	0.0020 m	0.0016 m
DZ			24979.8729 m	-0.0012 m	-0.0024 m	0.0034 m
DX	GRNX	8	-162171.5484 m	0.0186 m	-0.0142 m	0.0019 m
DY			-21531.2981 m	0.0277 m	0.0207 m	0.0017 m
DZ			-77107.1288 m	-0.0147 m	-0.0265 m	0.0032 m
DX	GRNX	8	-162171.5484 m	0.0110 m	-0.0197 m	0.0019 m
DY			-21531.2981 m	0.0296 m	0.0219 m	0.0017 m
DZ			-77107.1288 m	-0.0006 m	-0.0114 m	0.0032 m
DX	GRNX	7	-175727.1506 m	0.0105 m	-0.0208 m	0.0019 m
DY			-39774.7000 m	0.0306 m	0.0192 m	0.0017 m
DZ			-88126.2414 m	-0.0068 m	-0.0170 m	0.0033 m
DX	GRNX	7	-175727.1506 m	0.0218 m	-0.0104 m	0.0019 m

DY			-39774.7000 m	0.0252 m	0.0276 m	0.0017 m
DZ			-88126.2414 m	-0.0018 m	-0.0156 m	0.0033 m
DX	GRNX	6	-205604.3885 m	-0.0012 m	-0.0326 m	0.0019 m
DY			-57252.5511 m	0.0373 m	0.0175 m	0.0016 m
DZ			-106603.5521 m	0.0026 m	-0.0057 m	0.0033 m
DX	GRNX	6	-205604.3885 m	0.0282 m	-0.0302 m	0.0019 m
DY			-57252.5511 m	0.0522 m	0.0660 m	0.0016 m
DZ			-106603.5521 m	0.0456 m	0.0184 m	0.0033 m
DX	GRNX	4	-212015.6741 m	0.0003 m	-0.0333 m	0.0019 m
DY			-81000.1231 m	0.0390 m	0.0175 m	0.0016 m
DZ			-116021.6123 m	-0.0017 m	-0.0105 m	0.0033 m
DX	GRNX	4	-212015.6741 m	0.0445 m	0.0482 m	0.0019 m
DY			-81000.1231 m	-0.0295 m	0.0369 m	0.0016 m
DZ			-116021.6123 m	0.0370 m	0.0231 m	0.0033 m
DX	GRNX	3	-191161.0331 m	0.0188 m	-0.0141 m	0.0019 m
DY			-106131.9725 m	0.0278 m	0.0200 m	0.0016 m
DZ			-113106.1143 m	-0.0167 m	-0.0285 m	0.0031 m
DX	GRNX	3	-191161.0331 m	0.0184 m	-0.0166 m	0.0019 m
DY			-106131.9725 m	0.0305 m	0.0256 m	0.0016 m
DZ			-113106.1143 m	-0.0060 m	-0.0193 m	0.0031 m
DX	GRNX	1	-131607.4955 m	0.0542 m	0.0053 m	0.0021 m
DY			-169150.9721 m	0.0264 m	0.0435 m	0.0018 m
DZ			-102867.2196 m	-0.0235 m	-0.0476 m	0.0036 m
DX	GRNX	1	-131607.4955 m	0.0052 m	-0.0135 m	0.0021 m
DY			-169150.9721 m	0.0189 m	0.0156 m	0.0018 m
DZ			-102867.2196 m	0.0063 m	-0.0006 m	0.0036 m
DX	ZAN1	8	80436.2073 m	-0.0139 m	0.0047 m	0.0019 m
DY			74093.8839 m	-0.0136 m	-0.0197 m	0.0017 m
DZ			57328.5125 m	-0.0065 m	0.0034 m	0.0032 m
DX	ZAN1	8	80436.2073 m	-0.0112 m	0.0082 m	0.0019 m
DY			74093.8839 m	-0.0160 m	-0.0174 m	0.0017 m
DZ			57328.5125 m	-0.0037 m	0.0053 m	0.0032 m
DX	ZAN1	7	66880.6051 m	-0.0115 m	0.0037 m	0.0019 m
DY			55850.4820 m	-0.0110 m	-0.0154 m	0.0017 m
DZ			46309.3999 m	-0.0038 m	0.0041 m	0.0033 m
DX	ZAN1	7	66880.6051 m	-0.0128 m	0.0071 m	0.0019 m
DY			55850.4820 m	-0.0157 m	-0.0159 m	0.0017 m
DZ			46309.3999 m	0.0014 m	0.0104 m	0.0033 m
DX	ZAN1	6	37003.3672 m	-0.0128 m	0.0043 m	0.0019 m
DY			38372.6309 m	-0.0125 m	-0.0160 m	0.0016 m
DZ			27832.0892 m	-0.0015 m	0.0070 m	0.0033 m
DX	ZAN1	6	37003.3672 m	-0.0102 m	0.0055 m	0.0019 m
DY			38372.6309 m	-0.0124 m	-0.0144 m	0.0016 m
DZ			27832.0892 m	-0.0025 m	0.0051 m	0.0033 m
DX	ZAN1	4	30592.0816 m	-0.0132 m	0.0045 m	0.0019 m
DY			14625.0589 m	-0.0129 m	-0.0151 m	0.0016 m
DZ			18414.0290 m	0.0013 m	0.0097 m	0.0033 m
DX	ZAN1	4	30592.0816 m	-0.0108 m	0.0064 m	0.0019 m
DY			14625.0589 m	-0.0137 m	-0.0149 m	0.0016 m
DZ			18414.0290 m	-0.0014 m	0.0065 m	0.0033 m
DX	ZAN1	3	51446.7226 m	-0.0105 m	0.0053 m	0.0019 m
DY			-10506.7905 m	-0.0123 m	-0.0169 m	0.0016 m
DZ			21329.5270 m	-0.0073 m	0.0009 m	0.0031 m

DX	ZAN1	3	51446.7226 m	-0.0149 m	0.0059 m	0.0019 m
DY			-10506.7905 m	-0.0155 m	-0.0180 m	0.0016 m
DZ			21329.5270 m	0.0004 m	0.0103 m	0.0031 m
DX	ZAN1	1	111000.2602 m	-0.0078 m	0.0063 m	0.0021 m
DY			-73525.7901 m	-0.0118 m	-0.0155 m	0.0018 m
DZ			31568.4217 m	-0.0093 m	-0.0020 m	0.0036 m
DX	ZAN1	1	111000.2602 m	-0.0059 m	0.0027 m	0.0021 m
DY			-73525.7901 m	-0.0065 m	-0.0143 m	0.0018 m
DZ			31568.4217 m	-0.0144 m	-0.0087 m	0.0036 m
DX	2	1	21606.2344 m	0.0010 m	0.0011 m	0.0025 m
DY			-32500.8475 m	-0.0006 m	-0.0010 m	0.0020 m
DZ			944.6098 m	-0.0031 m	-0.0030 m	0.0042 m
DX	2	1	21606.2344 m	-0.0012 m	-0.0001 m	0.0025 m
DY			-32500.8475 m	-0.0007 m	0.0000 m	0.0020 m
DZ			944.6098 m	0.0026 m	0.0030 m	0.0042 m
DX	5	10	139451.7338 m	0.0095 m	0.0003 m	0.0021 m
DY			59234.0259 m	0.0051 m	0.0040 m	0.0017 m
DZ			79800.8165 m	-0.0115 m	-0.0153 m	0.0038 m
DX	5	10	139451.7338 m	-0.0102 m	0.0000 m	0.0021 m
DY			59234.0259 m	-0.0059 m	-0.0029 m	0.0017 m
DZ			79800.8165 m	0.0156 m	0.0193 m	0.0038 m
DX	GRNX	9	-128491.2673 m	0.0204 m	-0.0146 m	0.0020 m
DY			-3031.9881 m	0.0293 m	0.0244 m	0.0017 m
DZ			-56986.0308 m	-0.0110 m	-0.0242 m	0.0036 m
DX	GRNX	9	-128491.2673 m	0.0331 m	-0.0071 m	0.0020 m
DY			-3031.9881 m	0.0282 m	0.0307 m	0.0017 m
DZ			-56986.0308 m	-0.0176 m	-0.0347 m	0.0036 m
DX	GRNX	5	-232359.9353 m	-0.0013 m	-0.0257 m	0.0019 m
DY			-74899.8595 m	0.0292 m	0.0113 m	0.0016 m
DZ			-123915.3498 m	-0.0029 m	-0.0088 m	0.0030 m
DX	GRNX	5	-232359.9353 m	0.0123 m	-0.0252 m	0.0019 m
DY			-74899.8595 m	0.0367 m	0.0228 m	0.0016 m
DZ			-123915.3498 m	-0.0083 m	-0.0205 m	0.0030 m
DX	GRNX	10	-92908.2014 m	0.0208 m	-0.0148 m	0.0021 m
DY			-15665.8337 m	0.0298 m	0.0240 m	0.0018 m
DZ			-44114.5333 m	-0.0131 m	-0.0264 m	0.0036 m
DX	GRNX	10	-92908.2014 m	0.0146 m	-0.0143 m	0.0021 m
DY			-15665.8337 m	0.0255 m	0.0248 m	0.0018 m
DZ			-44114.5333 m	0.0042 m	-0.0076 m	0.0036 m
DX	ZAN1	9	114116.4884 m	-0.0097 m	0.0055 m	0.0020 m
DY			92593.1939 m	-0.0120 m	-0.0147 m	0.0017 m
DZ			77449.6105 m	-0.0043 m	0.0031 m	0.0036 m
DX	ZAN1	9	114116.4884 m	-0.0255 m	-0.0059 m	0.0020 m
DY			92593.1939 m	-0.0080 m	-0.0245 m	0.0017 m
DZ			77449.6105 m	-0.0035 m	0.0095 m	0.0036 m
DX	ZAN1	5	10247.8204 m	-0.0165 m	0.0049 m	0.0019 m
DY			20725.3225 m	-0.0153 m	-0.0182 m	0.0016 m
DZ			10520.2916 m	0.0021 m	0.0124 m	0.0030 m
DX	ZAN1	5	10247.8204 m	-0.0140 m	0.0056 m	0.0019 m
DY			20725.3225 m	-0.0147 m	-0.0203 m	0.0016 m
DZ			10520.2916 m	-0.0066 m	0.0036 m	0.0030 m
DX	ZAN1	10	149699.5542 m	-0.0067 m	0.0058 m	0.0021 m
DY			79959.3483 m	-0.0107 m	-0.0121 m	0.0018 m

DZ			90321.1080 m	-0.0048 m	0.0011 m	0.0036 m
DX	ZAN1	10	149699.5542 m	-0.0352 m	0.0007 m	0.0021 m
DY			79959.3483 m	-0.0213 m	-0.0353 m	0.0018 m
DZ			90321.1080 m	0.0015 m	0.0211 m	0.0036 m
DX	10	8	-69263.3469 m	-0.0020 m	-0.0010 m	0.0021 m
DY			-5865.4644 m	-0.0001 m	-0.0033 m	0.0017 m
DZ			-32992.5956 m	-0.0037 m	-0.0025 m	0.0037 m
DX	10	8	-69263.3469 m	-0.0016 m	-0.0015 m	0.0021 m
DY			-5865.4644 m	0.0008 m	-0.0007 m	0.0017 m
DZ			-32992.5956 m	0.0005 m	0.0009 m	0.0037 m
DX	10	8	-69263.3469 m	0.0012 m	0.0013 m	0.0021 m
DY			-5865.4644 m	-0.0008 m	-0.0010 m	0.0017 m
DZ			-32992.5956 m	-0.0034 m	-0.0034 m	0.0037 m
DX	10	7	-82818.9492 m	-0.0026 m	-0.0008 m	0.0020 m
DY			-24108.8663 m	-0.0005 m	-0.0001 m	0.0017 m
DZ			-44011.7081 m	0.0047 m	0.0053 m	0.0036 m
DX	10	7	-82818.9492 m	-0.0221 m	-0.0349 m	0.0020 m
DY			-24108.8663 m	0.0276 m	-0.0055 m	0.0017 m
DZ			-44011.7081 m	-0.0021 m	0.0005 m	0.0036 m
DX	10	7	-82818.9492 m	0.0066 m	-0.0006 m	0.0020 m
DY			-24108.8663 m	0.0046 m	0.0036 m	0.0017 m
DZ			-44011.7081 m	-0.0077 m	-0.0105 m	0.0036 m
DX	10	6	-112696.1871 m	-0.0051 m	-0.0014 m	0.0020 m
DY			-41586.7174 m	-0.0014 m	-0.0022 m	0.0017 m
DZ			-62489.0188 m	0.0053 m	0.0070 m	0.0036 m
DX	10	6	-112696.1871 m	-0.0153 m	-0.0220 m	0.0020 m
DY			-41586.7174 m	0.0165 m	-0.0011 m	0.0017 m
DZ			-62489.0188 m	0.0070 m	0.0084 m	0.0036 m
DX	10	6	-112696.1871 m	0.0019 m	0.0020 m	0.0020 m
DY			-41586.7174 m	-0.0012 m	-0.0004 m	0.0017 m
DZ			-62489.0188 m	-0.0028 m	-0.0030 m	0.0036 m
DX	10	4	-119107.4727 m	-0.0068 m	-0.0021 m	0.0020 m
DY			-65334.2894 m	-0.0016 m	-0.0012 m	0.0017 m
DZ			-71907.0790 m	0.0104 m	0.0123 m	0.0037 m
DX	10	4	-119107.4727 m	0.0212 m	0.0049 m	0.0020 m
DY			-65334.2894 m	0.0068 m	0.0190 m	0.0017 m
DZ			-71907.0790 m	-0.0008 m	-0.0106 m	0.0037 m
DX	10	4	-119107.4727 m	0.0094 m	-0.0006 m	0.0020 m
DY			-65334.2894 m	0.0062 m	0.0043 m	0.0017 m
DZ			-71907.0790 m	-0.0125 m	-0.0162 m	0.0037 m
DX	10	3	-98252.8317 m	-0.0140 m	-0.0083 m	0.0020 m
DY			-90466.1388 m	0.0014 m	-0.0074 m	0.0017 m
DZ			-68991.5810 m	0.0061 m	0.0106 m	0.0036 m
DX	10	3	-98252.8317 m	0.0173 m	0.0065 m	0.0020 m
DY			-90466.1388 m	0.0026 m	0.0117 m	0.0017 m
DZ			-68991.5810 m	-0.0061 m	-0.0128 m	0.0036 m
DX	10	3	-98252.8317 m	-0.0026 m	0.0006 m	0.0020 m
DY			-90466.1388 m	-0.0022 m	-0.0030 m	0.0017 m
DZ			-68991.5810 m	-0.0001 m	0.0014 m	0.0036 m
DX	10	1	-38699.2941 m	-0.0003 m	-0.0005 m	0.0019 m
DY			-153485.1384 m	0.0003 m	-0.0006 m	0.0016 m
DZ			-58752.6863 m	-0.0011 m	-0.0010 m	0.0035 m
DX	10	1	-38699.2941 m	0.0029 m	0.0035 m	0.0019 m



DY			-153485.1384 m	-0.0024 m	0.0012 m	0.0016 m
DZ			-58752.6863 m	0.0001 m	-0.0005 m	0.0035 m
DX	10	1	-38699.2941 m	0.0004 m	-0.0011 m	0.0019 m
DY			-153485.1384 m	0.0016 m	0.0005 m	0.0016 m
DZ			-58752.6863 m	-0.0011 m	-0.0015 m	0.0035 m
DX	5	8	70188.3869 m	0.0043 m	0.0002 m	0.0020 m
DY			53368.5614 m	0.0023 m	0.0005 m	0.0017 m
DZ			46808.2209 m	-0.0080 m	-0.0094 m	0.0036 m
DX	5	8	70188.3869 m	0.0060 m	-0.0002 m	0.0020 m
DY			53368.5614 m	0.0037 m	0.0018 m	0.0017 m
DZ			46808.2209 m	-0.0092 m	-0.0115 m	0.0036 m
DX	5	8	70188.3869 m	-0.0059 m	0.0005 m	0.0020 m
DY			53368.5614 m	-0.0040 m	-0.0028 m	0.0017 m
DZ			46808.2209 m	0.0072 m	0.0098 m	0.0036 m
DX	5	7	56632.7846 m	0.0055 m	-0.0008 m	0.0019 m
DY			35125.1596 m	0.0041 m	0.0041 m	0.0016 m
DZ			35789.1084 m	-0.0040 m	-0.0067 m	0.0035 m
DX	5	7	56632.7846 m	0.0067 m	-0.0022 m	0.0019 m
DY			35125.1596 m	0.0064 m	0.0078 m	0.0016 m
DZ			35789.1084 m	-0.0003 m	-0.0046 m	0.0035 m
DX	5	7	56632.7846 m	-0.0027 m	0.0006 m	0.0019 m
DY			35125.1596 m	-0.0023 m	0.0007 m	0.0016 m
DZ			35789.1084 m	0.0077 m	0.0084 m	0.0035 m
DX	5	6	26755.5468 m	0.0046 m	-0.0008 m	0.0019 m
DY			17647.3085 m	0.0035 m	0.0034 m	0.0016 m
DZ			17311.7977 m	-0.0033 m	-0.0056 m	0.0035 m
DX	5	6	26755.5468 m	0.0000 m	-0.0011 m	0.0019 m
DY			17647.3085 m	0.0013 m	0.0043 m	0.0016 m
DZ			17311.7977 m	0.0079 m	0.0067 m	0.0035 m
DX	5	6	26755.5468 m	0.0010 m	-0.0011 m	0.0019 m
DY			17647.3085 m	0.0018 m	0.0035 m	0.0016 m
DZ			17311.7977 m	0.0041 m	0.0027 m	0.0035 m
DX	5	4	20344.2611 m	0.0040 m	-0.0011 m	0.0019 m
DY			-6100.2636 m	0.0036 m	0.0041 m	0.0016 m
DZ			7893.7375 m	-0.0010 m	-0.0034 m	0.0034 m
DX	5	4	20344.2611 m	0.0017 m	0.0001 m	0.0019 m
DY			-6100.2636 m	0.0009 m	0.0058 m	0.0016 m
DZ			7893.7375 m	0.0084 m	0.0065 m	0.0034 m
DX	5	4	20344.2611 m	0.0025 m	-0.0010 m	0.0019 m
DY			-6100.2636 m	0.0026 m	0.0026 m	0.0016 m
DZ			7893.7375 m	-0.0009 m	-0.0024 m	0.0034 m
DX	5	3	41198.9021 m	0.0069 m	0.0003 m	0.0019 m
DY			-31232.1129 m	0.0037 m	0.0021 m	0.0016 m
DZ			10809.2355 m	-0.0100 m	-0.0125 m	0.0034 m
DX	5	3	41198.9021 m	0.0058 m	0.0013 m	0.0019 m
DY			-31232.1129 m	0.0019 m	0.0042 m	0.0016 m
DZ			10809.2355 m	-0.0021 m	-0.0046 m	0.0034 m
DX	5	3	41198.9021 m	-0.0038 m	-0.0006 m	0.0019 m
DY			-31232.1129 m	-0.0015 m	0.0014 m	0.0016 m
DZ			10809.2355 m	0.0104 m	0.0110 m	0.0034 m
DX	5	1	100752.4397 m	0.0117 m	0.0012 m	0.0021 m
DY			-94251.1125 m	0.0054 m	0.0043 m	0.0017 m
DZ			21048.1302 m	-0.0146 m	-0.0190 m	0.0037 m

DX	5	1	100752.4397 m	0.0126 m	0.0035 m	0.0021 m
DY			-94251.1125 m	0.0032 m	0.0048 m	0.0017 m
DZ			21048.1302 m	-0.0130 m	-0.0174 m	0.0037 m
DX	5	1	100752.4397 m	-0.0160 m	-0.0102 m	0.0021 m
DY			-94251.1125 m	0.0026 m	0.0091 m	0.0017 m
DZ			21048.1302 m	0.0420 m	0.0429 m	0.0037 m
DX	1	7	-44119.6551 m	-0.0018 m	-0.0020 m	0.0019 m
DY			129376.2721 m	0.0012 m	0.0026 m	0.0017 m
DZ			14740.9782 m	0.0071 m	0.0066 m	0.0035 m
DX	1	7	-44119.6551 m	0.0200 m	0.0806 m	0.0019 m
DY			129376.2721 m	-0.0829 m	-0.0200 m	0.0017 m
DZ			14740.9782 m	0.0094 m	0.0213 m	0.0035 m
DX	1	7	-44119.6551 m	0.0029 m	0.0012 m	0.0019 m
DY			129376.2721 m	0.0004 m	0.0002 m	0.0017 m
DZ			14740.9782 m	-0.0044 m	-0.0051 m	0.0035 m
DX	1	6	-73996.8930 m	-0.0050 m	-0.0023 m	0.0020 m
DY			111898.4210 m	-0.0005 m	-0.0004 m	0.0017 m
DZ			-3736.3325 m	0.0075 m	0.0087 m	0.0036 m
DX	1	6	-73996.8930 m	0.0304 m	0.0625 m	0.0020 m
DY			111898.4210 m	-0.0547 m	-0.0022 m	0.0017 m
DZ			-3736.3325 m	0.0023 m	0.0038 m	0.0036 m
DX	1	6	-73996.8930 m	0.0117 m	0.0013 m	0.0020 m
DY			111898.4210 m	0.0059 m	0.0022 m	0.0017 m
DZ			-3736.3325 m	-0.0197 m	-0.0235 m	0.0036 m
DX	7	6	-29877.2379 m	-0.0010 m	0.0001 m	0.0018 m
DY			-17477.8511 m	-0.0007 m	-0.0007 m	0.0016 m
DZ			-18477.3108 m	0.0007 m	0.0012 m	0.0034 m
DX	7	6	-29877.2379 m	-0.0320 m	-0.0555 m	0.0018 m
DY			-17477.8511 m	0.0457 m	-0.0140 m	0.0016 m
DZ			-18477.3108 m	-0.0206 m	-0.0159 m	0.0034 m
DX	7	6	-29877.2379 m	0.0042 m	-0.0003 m	0.0018 m
DY			-17477.8511 m	0.0027 m	0.0026 m	0.0016 m
DZ			-18477.3108 m	-0.0039 m	-0.0058 m	0.0034 m
DX	7	4	-36288.5235 m	-0.0021 m	-0.0002 m	0.0018 m
DY			-41225.4231 m	-0.0010 m	-0.0002 m	0.0016 m
DZ			-27895.3709 m	0.0039 m	0.0045 m	0.0034 m
DX	7	4	-36288.5235 m	-0.0057 m	-0.0020 m	0.0018 m
DY			-41225.4231 m	-0.0010 m	-0.0015 m	0.0016 m
DZ			-27895.3709 m	0.0070 m	0.0087 m	0.0034 m
DX	7	4	-36288.5235 m	0.0041 m	0.0002 m	0.0018 m
DY			-41225.4231 m	0.0021 m	0.0011 m	0.0016 m
DZ			-27895.3709 m	-0.0064 m	-0.0078 m	0.0034 m
DX	3	8	28989.4847 m	-0.0017 m	-0.0001 m	0.0019 m
DY			84600.6743 m	-0.0009 m	-0.0017 m	0.0016 m
DZ			35998.9854 m	0.0002 m	0.0011 m	0.0034 m
DX	3	8	28989.4847 m	-0.0075 m	-0.0044 m	0.0019 m
DY			84600.6743 m	0.0007 m	-0.0069 m	0.0016 m
DZ			35998.9854 m	-0.0032 m	0.0001 m	0.0034 m
DX	3	8	28989.4847 m	-0.0006 m	0.0007 m	0.0019 m
DY			84600.6743 m	-0.0012 m	-0.0015 m	0.0016 m
DZ			35998.9854 m	-0.0011 m	-0.0004 m	0.0034 m
DX	3	6	-14443.3554 m	-0.0012 m	-0.0013 m	0.0018 m
DY			48879.4214 m	0.0008 m	0.0020 m	0.0015 m

DZ			6502.5622 m	0.0053 m	0.0050 m	0.0033 m
DX	3	6	-14443.3554 m	-0.0100 m	-0.0038 m	0.0018 m
DY			48879.4214 m	-0.0016 m	-0.0088 m	0.0015 m
DZ			6502.5622 m	-0.0011 m	0.0035 m	0.0033 m
DX	3	6	-14443.3554 m	0.0051 m	0.0003 m	0.0018 m
DY			48879.4214 m	0.0027 m	0.0028 m	0.0015 m
DZ			6502.5622 m	-0.0048 m	-0.0070 m	0.0033 m
DX	3	4	-20854.6410 m	-0.0024 m	-0.0016 m	0.0018 m
DY			25131.8494 m	0.0004 m	0.0024 m	0.0015 m
DZ			-2915.4980 m	0.0086 m	0.0084 m	0.0033 m
DX	3	4	-20854.6410 m	-0.0063 m	-0.0020 m	0.0018 m
DY			25131.8494 m	-0.0014 m	-0.0051 m	0.0015 m
DZ			-2915.4980 m	0.0007 m	0.0036 m	0.0033 m
DX	3	4	-20854.6410 m	0.0063 m	0.0002 m	0.0018 m
DY			25131.8494 m	0.0036 m	0.0019 m	0.0015 m
DZ			-2915.4980 m	-0.0095 m	-0.0118 m	0.0033 m
DX	3	1	59553.5376 m	0.0020 m	0.0008 m	0.0020 m
DY			-63018.9996 m	0.0003 m	0.0000 m	0.0017 m
DZ			10238.8947 m	-0.0034 m	-0.0039 m	0.0035 m
DX	3	1	59553.5376 m	-0.0076 m	0.0011 m	0.0020 m
DY			-63018.9996 m	-0.0058 m	-0.0103 m	0.0017 m
DZ			10238.8947 m	-0.0041 m	0.0009 m	0.0035 m
DX	3	1	59553.5376 m	-0.0035 m	-0.0009 m	0.0020 m
DY			-63018.9996 m	-0.0011 m	0.0014 m	0.0017 m
DZ			10238.8947 m	0.0095 m	0.0101 m	0.0035 m
DX	9	8	-33680.2811 m	-0.0008 m	0.0000 m	0.0020 m
DY			-18499.3101 m	-0.0005 m	-0.0022 m	0.0017 m
DZ			-20121.0980 m	-0.0029 m	-0.0021 m	0.0037 m
DX	9	8	-33680.2811 m	-0.0008 m	-0.0008 m	0.0020 m
DY			-18499.3101 m	0.0005 m	-0.0031 m	0.0017 m
DZ			-20121.0980 m	-0.0059 m	-0.0050 m	0.0037 m
DX	9	8	-33680.2811 m	-0.0004 m	0.0003 m	0.0020 m
DY			-18499.3101 m	-0.0006 m	-0.0016 m	0.0017 m
DZ			-20121.0980 m	-0.0022 m	-0.0017 m	0.0037 m
DX	9	7	-47235.8833 m	0.0000 m	-0.0008 m	0.0019 m
DY			-36742.7119 m	0.0010 m	0.0012 m	0.0016 m
DZ			-31140.2106 m	0.0018 m	0.0013 m	0.0036 m
DX	9	7	-47235.8833 m	0.0015 m	-0.0014 m	0.0019 m
DY			-36742.7119 m	0.0024 m	0.0053 m	0.0016 m
DZ			-31140.2106 m	0.0066 m	0.0047 m	0.0036 m
DX	9	7	-47235.8833 m	0.0021 m	-0.0004 m	0.0019 m
DY			-36742.7119 m	0.0017 m	0.0016 m	0.0016 m
DZ			-31140.2106 m	-0.0016 m	-0.0027 m	0.0036 m
DX	9	6	-77113.1212 m	-0.0006 m	-0.0012 m	0.0019 m
DY			-54220.5630 m	0.0010 m	0.0009 m	0.0016 m
DZ			-49617.5213 m	0.0019 m	0.0017 m	0.0036 m
DX	9	6	-77113.1212 m	-0.0044 m	-0.0008 m	0.0019 m
DY			-54220.5630 m	-0.0016 m	0.0014 m	0.0016 m
DZ			-49617.5213 m	0.0119 m	0.0127 m	0.0036 m
DX	9	6	-77113.1212 m	0.0071 m	-0.0009 m	0.0019 m
DY			-54220.5630 m	0.0051 m	0.0039 m	0.0016 m
DZ			-49617.5213 m	-0.0085 m	-0.0115 m	0.0036 m
DX	9	4	-83524.4068 m	-0.0028 m	-0.0017 m	0.0019 m

DY			-77968.1350 m	0.0003 m	0.0005 m	0.0016 m
DZ			-59035.5815 m	0.0055 m	0.0059 m	0.0036 m
DX	9	4	-83524.4068 m	-0.0049 m	0.0005 m	0.0019 m
DY			-77968.1350 m	-0.0034 m	0.0016 m	0.0016 m
DZ			-59035.5815 m	0.0151 m	0.0162 m	0.0036 m
DX	9	4	-83524.4068 m	0.0126 m	-0.0017 m	0.0019 m
DY			-77968.1350 m	0.0091 m	0.0056 m	0.0016 m
DZ			-59035.5815 m	-0.0179 m	-0.0230 m	0.0036 m
DX	9	3	-62669.7658 m	0.0004 m	0.0002 m	0.0019 m
DY			-103099.9844 m	0.0000 m	-0.0009 m	0.0016 m
DZ			-56120.0835 m	-0.0026 m	-0.0024 m	0.0036 m
DX	9	3	-62669.7658 m	-0.0045 m	0.0010 m	0.0019 m
DY			-103099.9844 m	-0.0037 m	-0.0013 m	0.0016 m
DZ			-56120.0835 m	0.0083 m	0.0100 m	0.0036 m
DX	9	3	-62669.7658 m	0.0026 m	-0.0001 m	0.0019 m
DY			-103099.9844 m	0.0017 m	0.0002 m	0.0016 m
DZ			-56120.0835 m	-0.0056 m	-0.0064 m	0.0036 m
DX	9	1	-3116.2283 m	-0.0001 m	0.0007 m	0.0020 m
DY			-166118.9840 m	-0.0008 m	-0.0017 m	0.0017 m
DZ			-45881.1888 m	-0.0028 m	-0.0023 m	0.0036 m
DX	9	1	-3116.2283 m	0.0011 m	0.0032 m	0.0020 m
DY			-166118.9840 m	-0.0031 m	0.0041 m	0.0017 m
DZ			-45881.1888 m	0.0101 m	0.0092 m	0.0036 m
DX	9	1	-3116.2283 m	-0.0019 m	-0.0006 m	0.0020 m
DY			-166118.9840 m	-0.0003 m	-0.0008 m	0.0017 m
DZ			-45881.1888 m	0.0018 m	0.0024 m	0.0036 m
DX	6	4	-6411.2856 m	-0.0004 m	-0.0002 m	0.0018 m
DY			-23747.5720 m	-0.0001 m	0.0007 m	0.0015 m
DZ			-9418.0602 m	0.0021 m	0.0020 m	0.0033 m
DX	6	4	-6411.2856 m	-0.0033 m	0.0000 m	0.0018 m
DY			-23747.5720 m	-0.0019 m	-0.0022 m	0.0015 m
DZ			-9418.0602 m	0.0026 m	0.0041 m	0.0033 m
DX	6	4	-6411.2856 m	0.0010 m	0.0001 m	0.0018 m
DY			-23747.5720 m	0.0004 m	-0.0005 m	0.0015 m
DZ			-9418.0602 m	-0.0030 m	-0.0032 m	0.0033 m
DX	8	7	-13555.6022 m	0.0013 m	-0.0009 m	0.0019 m
DY			-18243.4019 m	0.0018 m	0.0040 m	0.0017 m
DZ			-11019.1125 m	0.0046 m	0.0031 m	0.0035 m
DX	8	7	-13555.6022 m	0.0046 m	-0.0006 m	0.0019 m
DY			-18243.4019 m	0.0033 m	0.0096 m	0.0017 m
DZ			-11019.1125 m	0.0099 m	0.0061 m	0.0035 m
DX	8	7	-13555.6022 m	0.0035 m	-0.0011 m	0.0019 m
DY			-18243.4019 m	0.0033 m	0.0032 m	0.0017 m
DZ			-11019.1125 m	-0.0020 m	-0.0039 m	0.0035 m
DX	8	6	-43432.8401 m	0.0008 m	-0.0009 m	0.0019 m
DY			-35721.2529 m	0.0015 m	0.0034 m	0.0016 m
DZ			-29496.4233 m	0.0046 m	0.0034 m	0.0035 m
DX	8	6	-43432.8401 m	-0.0009 m	-0.0006 m	0.0019 m
DY			-35721.2529 m	0.0002 m	0.0056 m	0.0016 m
DZ			-29496.4233 m	0.0134 m	0.0122 m	0.0035 m
DX	8	6	-43432.8401 m	0.0063 m	-0.0003 m	0.0019 m
DY			-35721.2529 m	0.0040 m	0.0050 m	0.0016 m
DZ			-29496.4233 m	-0.0035 m	-0.0066 m	0.0035 m

<b>DX</b>	8	4	-49844.1257 m	-0.0007 m	-0.0012 m	0.0019 m
<b>DY</b>			-59468.8250 m	0.0010 m	0.0038 m	0.0016 m
<b>DZ</b>			-38914.4834 m	0.0083 m	0.0074 m	0.0035 m
<b>DX</b>	8	4	-49844.1257 m	-0.0025 m	-0.0003 m	0.0019 m
<b>DY</b>			-59468.8250 m	-0.0010 m	0.0021 m	0.0016 m
<b>DZ</b>			-38914.4834 m	0.0097 m	0.0098 m	0.0035 m
<b>DX</b>	8	4	-49844.1257 m	0.0073 m	-0.0005 m	0.0019 m
<b>DY</b>			-59468.8250 m	0.0047 m	0.0048 m	0.0016 m
<b>DZ</b>			-38914.4834 m	-0.0062 m	-0.0095 m	0.0035 m
<b>DX</b>	8	1	30564.0529 m	0.0026 m	0.0015 m	0.0020 m
<b>DY</b>			-147619.6740 m	-0.0003 m	0.0020 m	0.0017 m
<b>DZ</b>			-25760.0907 m	0.0002 m	-0.0008 m	0.0036 m
<b>DX</b>	8	1	30564.0529 m	0.0021 m	0.0020 m	0.0020 m
<b>DY</b>			-147619.6740 m	-0.0011 m	0.0043 m	0.0017 m
<b>DZ</b>			-25760.0907 m	0.0069 m	0.0055 m	0.0036 m
<b>DX</b>	8	1	30564.0529 m	-0.0009 m	-0.0013 m	0.0020 m
<b>DY</b>			-147619.6740 m	0.0010 m	0.0015 m	0.0017 m
<b>DZ</b>			-25760.0907 m	0.0039 m	0.0036 m	0.0036 m
<b>DX</b>	10	9	-35583.0658 m	0.0003 m	-0.0002 m	0.0020 m
<b>DY</b>			12633.8456 m	0.0004 m	0.0010 m	0.0017 m
<b>DZ</b>			-12871.4975 m	0.0013 m	0.0010 m	0.0037 m
<b>DX</b>	10	9	-35583.0658 m	-0.0076 m	-0.0454 m	0.0020 m
<b>DY</b>			12633.8456 m	0.0481 m	0.0076 m	0.0017 m
<b>DZ</b>			-12871.4975 m	-0.0179 m	-0.0240 m	0.0037 m
<b>DX</b>	10	9	-35583.0658 m	0.0061 m	-0.0016 m	0.0020 m
<b>DY</b>			12633.8456 m	0.0054 m	0.0044 m	0.0017 m
<b>DZ</b>			-12871.4975 m	-0.0060 m	-0.0090 m	0.0037 m
<b>DX</b>	5	9	103868.6680 m	0.0068 m	0.0003 m	0.0020 m
<b>DY</b>			71867.8715 m	0.0036 m	0.0035 m	0.0017 m
<b>DZ</b>			66929.3189 m	-0.0068 m	-0.0097 m	0.0038 m
<b>DX</b>	5	9	103868.6680 m	0.0165 m	0.0161 m	0.0020 m
<b>DY</b>			71867.8715 m	-0.0090 m	0.0055 m	0.0017 m
<b>DZ</b>			66929.3189 m	-0.0065 m	-0.0104 m	0.0038 m
<b>DX</b>	5	9	103868.6680 m	-0.0065 m	0.0005 m	0.0020 m
<b>DY</b>			71867.8715 m	-0.0043 m	0.0000 m	0.0017 m
<b>DZ</b>			66929.3189 m	0.0142 m	0.0162 m	0.0038 m

### GPS Baseline Vector Residuals

	<b>Station</b>	<b>Target</b>	<b>Adj vector [m]</b>	<b>Resid [m]</b>	<b>Resid [ppm]</b>
DV	GRNX	ZAN1	293386.5031	0.0573	0.2
DV	10	2	147775.9201	0.0046	0.0
DV	5	2	102378.5553	0.0107	0.1
DV	3	2	49575.5903	0.0021	0.0
DV	9	2	143727.7355	0.0006	0.0
DV	GRNX	2	230053.4710	0.0420	0.2
DV	ZAN1	2	103015.3174	0.0387	0.4
DV	2	8	118514.6731	0.0023	0.0
DV	2	7	100686.3430	0.0017	0.0
DV	2	6	95165.9051	0.0036	0.0
DV	2	4	81875.9433	0.0050	0.1
DV	1	4	120037.8499	0.0145	0.1
DV	1	4	120037.8499	0.0108	0.1
DV	3	7	72563.6713	0.0053	0.1

DV	3	7	72563.6713	0.0031	0.0
DV	GRNX	8	180855.5148	0.0365	0.2
DV	GRNX	8	180855.5148	0.0316	0.2
DV	GRNX	7	200569.9196	0.0330	0.2
DV	GRNX	7	200569.9196	0.0334	0.2
DV	GRNX	6	238569.3536	0.0374	0.2
DV	GRNX	6	238569.3536	0.0749	0.3
DV	GRNX	4	254897.3922	0.0390	0.2
DV	GRNX	4	254897.3922	0.0650	0.3
DV	GRNX	3	246169.7163	0.0375	0.2
DV	GRNX	3	246169.7163	0.0361	0.1
DV	GRNX	1	237727.2578	0.0647	0.3
DV	GRNX	1	237727.2578	0.0206	0.1
DV	ZAN1	8	123476.4974	0.0205	0.2
DV	ZAN1	8	123476.4974	0.0199	0.2
DV	ZAN1	7	98675.4894	0.0163	0.2
DV	ZAN1	7	98675.4894	0.0203	0.2
DV	ZAN1	6	60135.9558	0.0180	0.3
DV	ZAN1	6	60135.9558	0.0162	0.3
DV	ZAN1	4	38585.5448	0.0185	0.5
DV	ZAN1	4	38585.5448	0.0175	0.5
DV	ZAN1	3	56675.4500	0.0177	0.3
DV	ZAN1	3	56675.4500	0.0215	0.4
DV	ZAN1	1	136834.4431	0.0169	0.1
DV	ZAN1	1	136834.4431	0.0169	0.1
DV	2	1	39038.7851	0.0033	0.1
DV	2	1	39038.7851	0.0030	0.1
DV	5	10	171241.4266	0.0158	0.1
DV	5	10	171241.4266	0.0195	0.1
DV	GRNX	9	140593.7638	0.0373	0.3
DV	GRNX	9	140593.7638	0.0469	0.3
DV	GRNX	5	273781.1944	0.0294	0.1
DV	GRNX	5	273781.1944	0.0396	0.1
DV	GRNX	10	104035.7837	0.0387	0.4
DV	GRNX	10	104035.7837	0.0296	0.3
DV	ZAN1	9	166115.9675	0.0160	0.1
DV	ZAN1	9	166115.9675	0.0269	0.2
DV	ZAN1	5	25401.4438	0.0226	0.9
DV	ZAN1	5	25401.4438	0.0214	0.8
DV	ZAN1	10	192253.3653	0.0135	0.1
DV	ZAN1	10	192253.3653	0.0411	0.2
DV	10	8	76943.6564	0.0042	0.1
DV	10	8	76943.6564	0.0019	0.0
DV	10	8	76943.6564	0.0037	0.0
DV	10	7	96836.1824	0.0054	0.1
DV	10	7	96836.1824	0.0354	0.4
DV	10	7	96836.1824	0.0111	0.1
DV	10	6	135405.9198	0.0075	0.1
DV	10	6	135405.9198	0.0236	0.2
DV	10	6	135405.9198	0.0036	0.0
DV	10	4	153706.8230	0.0125	0.1
DV	10	4	153706.8230	0.0223	0.1
DV	10	4	153706.8230	0.0168	0.1

DV	10	3	150324.9129	0.0154	0.1
DV	10	3	150324.9129	0.0185	0.1
DV	10	3	150324.9129	0.0034	0.0
DV	10	1	168840.7570	0.0012	0.0
DV	10	1	168840.7570	0.0037	0.0
DV	10	1	168840.7570	0.0020	0.0
DV	5	8	99827.9647	0.0094	0.1
DV	5	8	99827.9647	0.0116	0.1
DV	5	8	99827.9647	0.0102	0.1
DV	5	7	75643.3038	0.0079	0.1
DV	5	7	75643.3038	0.0093	0.1
DV	5	7	75643.3038	0.0084	0.1
DV	5	6	36427.8069	0.0066	0.2
DV	5	6	36427.8069	0.0080	0.2
DV	5	6	36427.8069	0.0046	0.1
DV	5	4	22658.6246	0.0054	0.2
DV	5	4	22658.6246	0.0087	0.4
DV	5	4	22658.6246	0.0037	0.2
DV	5	3	52816.9858	0.0127	0.2
DV	5	3	52816.9858	0.0064	0.1
DV	5	3	52816.9858	0.0111	0.2
DV	5	1	139561.2773	0.0195	0.1
DV	5	1	139561.2773	0.0183	0.1
DV	5	1	139561.2773	0.0450	0.3
DV	1	7	137484.7635	0.0074	0.1
DV	1	7	137484.7635	0.0857	0.6
DV	1	7	137484.7635	0.0053	0.0
DV	1	6	134204.1615	0.0090	0.1
DV	1	6	134204.1615	0.0627	0.5
DV	1	6	134204.1615	0.0236	0.2
DV	7	6	39236.9167	0.0014	0.0
DV	7	6	39236.9167	0.0594	1.5
DV	7	6	39236.9167	0.0064	0.2
DV	7	4	61599.8715	0.0045	0.1
DV	7	4	61599.8715	0.0090	0.1
DV	7	4	61599.8715	0.0079	0.1
DV	3	8	96403.2742	0.0020	0.0
DV	3	8	96403.2742	0.0081	0.1
DV	3	8	96403.2742	0.0018	0.0
DV	3	6	51381.8223	0.0055	0.1
DV	3	6	51381.8223	0.0102	0.2
DV	3	6	51381.8223	0.0075	0.1
DV	3	4	32787.5896	0.0089	0.3
DV	3	4	32787.5896	0.0065	0.2
DV	3	4	32787.5896	0.0120	0.4
DV	3	1	87308.9521	0.0040	0.0
DV	3	1	87308.9521	0.0104	0.1
DV	3	1	87308.9521	0.0102	0.1
DV	9	8	43375.6198	0.0030	0.1
DV	9	8	43375.6198	0.0060	0.1
DV	9	8	43375.6198	0.0023	0.1
DV	9	7	67460.8647	0.0020	0.0
DV	9	7	67460.8647	0.0072	0.1

DV	9	7	67460.8647	0.0031	0.0
DV	9	6	106527.9369	0.0023	0.0
DV	9	6	106527.9369	0.0128	0.1
DV	9	6	106527.9369	0.0122	0.1
DV	9	4	128610.0948	0.0061	0.0
DV	9	4	128610.0948	0.0163	0.1
DV	9	4	128610.0948	0.0237	0.2
DV	9	3	133066.0366	0.0026	0.0
DV	9	3	133066.0366	0.0101	0.1
DV	9	3	133066.0366	0.0064	0.0
DV	9	1	172366.7926	0.0030	0.0
DV	9	1	172366.7926	0.0106	0.1
DV	9	1	172366.7926	0.0026	0.0
DV	6	4	26339.1651	0.0022	0.1
DV	6	4	26339.1651	0.0046	0.2
DV	6	4	26339.1651	0.0032	0.1
DV	8	7	25258.6006	0.0052	0.2
DV	8	7	25258.6006	0.0114	0.5
DV	8	7	25258.6006	0.0052	0.2
DV	8	6	63501.6417	0.0049	0.1
DV	8	6	63501.6417	0.0134	0.2
DV	8	6	63501.6417	0.0083	0.1
DV	8	4	86806.1924	0.0084	0.1
DV	8	4	86806.1924	0.0100	0.1
DV	8	4	86806.1924	0.0106	0.1
DV	8	1	152935.6457	0.0026	0.0
DV	8	1	152935.6457	0.0073	0.0
DV	8	1	152935.6457	0.0041	0.0
DV	10	9	39892.9076	0.0014	0.0
DV	10	9	39892.9076	0.0519	1.3
DV	10	9	39892.9076	0.0101	0.3
DV	5	9	142944.8316	0.0103	0.1
DV	5	9	142944.8316	0.0199	0.1
DV	5	9	142944.8316	0.0162	0.1

### External Reliability

Station		Ext Rel [m]		Station	Target
1	Latitude	0.0014	DX	GRNX	5
	Longitude	-0.0011	DY	ZAN1	1
	Height	0.0027	DZ	GRNX	8
10	Latitude	-0.0014	DZ	10	1
	Longitude	0.0011	DY	10	1
	Height	0.0025	DZ	GRNX	8
2	Latitude	-0.0019	DZ	2	1
	Longitude	0.0017	DY	2	1
	Height	-0.0037	DZ	2	1
3	Latitude	0.0021	DZ	GRNX	3
	Longitude	-0.0014	DY	ZAN1	3
	Height	0.0043	DZ	GRNX	3
4	Latitude	0.0016	DZ	ZAN1	4
	Longitude	-0.0017	DY	ZAN1	4
	Height	0.0030	DZ	ZAN1	4
5	Latitude	0.0031	DZ	GRNX	5



	Longitude	-0.0014	DY	ZAN1	5
	Height	0.0058	DZ	GRNX	5
6	Latitude	0.0015	DZ	ZAN1	6
	Longitude	-0.0015	DY	ZAN1	6
	Height	0.0027	DZ	ZAN1	6
7	Latitude	0.0014	DZ	ZAN1	7
	Longitude	-0.0014	DY	ZAN1	7
	Height	0.0024	DZ	ZAN1	7
8	Latitude	0.0027	DZ	GRNX	8
	Longitude	-0.0012	DY	ZAN1	8
	Height	0.0056	DZ	GRNX	8
9	Latitude	0.0014	DX	GRNX	5
	Longitude	-0.0012	DY	ZAN1	9
	Height	0.0025	DZ	GRNX	8
GRNX	Latitude	0.0000	DX	GRNX	5
	Longitude	0.0000	DY	GRNX	10
	Height	0.0000	DZ	GRNX	5
ZAN1	Latitude	0.0000	DX	GRNX	5
	Longitude	0.0000	DY	GRNX	10
	Height	0.0000	DZ	GRNX	5

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

Station	A [m]	B [m]	A/B	Phi	Sd Hgt [m]
1	0.0020	0.0014	1.4	-1°	0.0038
10	0.0020	0.0015	1.4	-1°	0.0038
2	0.0023	0.0017	1.4	-2°	0.0046
3	0.0017	0.0014	1.3	0°	0.0033
4	0.0018	0.0014	1.3	-1°	0.0034
5	0.0017	0.0014	1.2	-1°	0.0032
6	0.0018	0.0014	1.3	-1°	0.0035
7	0.0018	0.0014	1.3	-4°	0.0035
8	0.0018	0.0014	1.2	-2°	0.0034
9	0.0020	0.0014	1.3	-3°	0.0038
GRNX	0.0000	0.0000	1.0	55°	0.0000
ZAN1	0.0000	0.0000	1.0	53°	0.0000

#### Relative Error Ellipses (2D - 39.4%)

Station	Station	A [m]	B [m]	A/B	Psi	Sd Hgt [m]
GRNX	ZAN1	0.0000	0.0000	1.0	46°	0.0000
10	2	0.0023	0.0016	1.5	27°	0.0046
5	2	0.0024	0.0016	1.5	-68°	0.0047
3	2	0.0023	0.0016	1.5	-70°	0.0046
9	2	0.0023	0.0016	1.5	43°	0.0046
GRNX	2	0.0023	0.0017	1.4	7°	0.0046
ZAN1	2	0.0023	0.0017	1.4	-54°	0.0046
2	8	0.0023	0.0016	1.5	59°	0.0046
2	7	0.0023	0.0015	1.5	67°	0.0045
2	6	0.0023	0.0016	1.5	-89°	0.0046
2	4	0.0023	0.0016	1.5	-74°	0.0046
1	4	0.0020	0.0013	1.5	-78°	0.0038
3	7	0.0018	0.0013	1.4	40°	0.0035
GRNX	8	0.0018	0.0014	1.2	-22°	0.0034

GRNX	7	0.0018	0.0014	1.3	-19°	0.0035
GRNX	6	0.0018	0.0014	1.3	-14°	0.0035
GRNX	4	0.0018	0.0014	1.3	-9°	0.0034
GRNX	3	0.0017	0.0014	1.3	-1°	0.0033
GRNX	1	0.0020	0.0014	1.4	18°	0.0038
ZAN1	8	0.0018	0.0014	1.2	10°	0.0034
ZAN1	7	0.0018	0.0014	1.3	5°	0.0035
ZAN1	6	0.0018	0.0014	1.3	13°	0.0035
ZAN1	4	0.0018	0.0014	1.3	-5°	0.0034
ZAN1	3	0.0017	0.0014	1.3	-38°	0.0033
ZAN1	1	0.0020	0.0014	1.4	-62°	0.0038
2	1	0.0023	0.0015	1.5	90°	0.0045
5	10	0.0021	0.0014	1.4	-8°	0.0039
GRNX	9	0.0020	0.0014	1.3	-29°	0.0038
GRNX	5	0.0017	0.0014	1.2	-12°	0.0032
GRNX	10	0.0020	0.0015	1.4	-20°	0.0038
ZAN1	9	0.0020	0.0014	1.3	5°	0.0038
ZAN1	5	0.0017	0.0014	1.2	30°	0.0032
ZAN1	10	0.0020	0.0015	1.4	-3°	0.0038
10	8	0.0020	0.0014	1.4	-24°	0.0039
10	7	0.0019	0.0014	1.4	-16°	0.0037
10	6	0.0020	0.0014	1.4	-10°	0.0037
10	4	0.0020	0.0014	1.5	-3°	0.0038
10	3	0.0020	0.0014	1.4	9°	0.0038
10	1	0.0019	0.0013	1.5	40°	0.0037
5	8	0.0019	0.0014	1.4	4°	0.0037
5	7	0.0019	0.0013	1.4	-3°	0.0037
5	6	0.0019	0.0013	1.4	1°	0.0036
5	4	0.0019	0.0013	1.4	-45°	0.0036
5	3	0.0018	0.0013	1.4	-66°	0.0035
5	1	0.0020	0.0014	1.5	-73°	0.0039
1	7	0.0019	0.0013	1.5	73°	0.0037
1	6	0.0019	0.0013	1.5	-89°	0.0038
7	6	0.0018	0.0013	1.4	-4°	0.0035
7	4	0.0018	0.0013	1.4	13°	0.0035
3	8	0.0019	0.0013	1.4	36°	0.0036
3	6	0.0018	0.0013	1.4	73°	0.0035
3	4	0.0018	0.0012	1.4	-81°	0.0035
3	1	0.0019	0.0013	1.5	-78°	0.0037
9	8	0.0020	0.0014	1.4	-4°	0.0038
9	7	0.0019	0.0013	1.4	2°	0.0037
9	6	0.0019	0.0013	1.5	1°	0.0037
9	4	0.0019	0.0013	1.5	9°	0.0037
9	3	0.0019	0.0013	1.4	23°	0.0037
9	1	0.0019	0.0013	1.5	53°	0.0038
6	4	0.0018	0.0012	1.4	39°	0.0035
8	7	0.0019	0.0014	1.4	17°	0.0037
8	6	0.0019	0.0013	1.4	6°	0.0036
8	4	0.0019	0.0013	1.4	16°	0.0036
8	1	0.0020	0.0014	1.4	67°	0.0038
10	9	0.0020	0.0014	1.5	-49°	0.0039
5	9	0.0020	0.0014	1.4	1°	0.0039

## Testing and Estimated Errors

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### Coordinate Tests








Station		MDB	BNR	W-Test	T-Test
GRNX	Latitude	0.0087 m	999.9	0.00	0.00
	Longitude	0.0087 m	999.9	0.00	
	Height	0.0163 m	999.9	0.00	
ZAN1	Latitude	0.0087 m	999.9	0.00	0.00
	Longitude	0.0087 m	999.9	0.00	
	Height	0.0163 m	999.9	0.00	

### Observation Tests

	Station	Target	MDB	Red	BNR	W-Test	T-Test
<b>DX</b>	GRNX	ZAN1	0.0825 m	99	0.0	0.32	1.48
<b>DY</b>			0.0741 m	99	0.0	1.87	
<b>DZ</b>			0.1518 m	99	0.0	0.70	
<b>DX</b>	10	2	0.0158 m	78	1.7	0.13	0.12
<b>DY</b>			0.0139 m	79	1.7	0.35	
<b>DZ</b>			0.0292 m	77	1.7	-0.13	
<b>DX</b>	5	2	0.0227 m	90	1.1	-0.10	0.31
<b>DY</b>			0.0195 m	90	1.1	0.60	
<b>DZ</b>			0.0422 m	90	1.1	0.82	
<b>DX</b>	3	2	0.0184 m	85	1.3	-0.16	0.02
<b>DY</b>			0.0162 m	86	1.3	-0.07	
<b>DZ</b>			0.0339 m	85	1.3	-0.01	
<b>DX</b>	9	2	0.0166 m	81	1.6	-0.02	0.00
<b>DY</b>			0.0144 m	81	1.6	0.02	
<b>DZ</b>			0.0308 m	80	1.6	-0.06	
<b>DX</b>	GRNX	2	0.1615 m	99	0.1	0.19	0.21
<b>DY</b>			0.1330 m	99	0.2	0.49	
<b>DZ</b>			0.2484 m	99	0.2	0.73	
<b>DX</b>	ZAN1	2	0.0553 m	98	0.4	0.43	1.34
<b>DY</b>			0.0499 m	98	0.4	-1.92	
<b>DZ</b>			0.0847 m	97	0.5	-0.53	
<b>DX</b>	2	8	0.0183 m	84	1.4	-0.07	0.04
<b>DY</b>			0.0155 m	83	1.4	-0.26	
<b>DZ</b>			0.0335 m	84	1.4	-0.06	
<b>DX</b>	2	7	0.0164 m	82	1.5	0.37	0.05
<b>DY</b>			0.0141 m	80	1.6	-0.15	
<b>DZ</b>			0.0303 m	81	1.6	0.08	
<b>DX</b>	2	6	0.0218 m	90	1.1	0.03	0.10
<b>DY</b>			0.0190 m	90	1.1	0.48	
<b>DZ</b>			0.0402 m	90	1.1	0.23	
<b>DX</b>	2	4	0.0218 m	90	1.1	-0.21	0.09
<b>DY</b>			0.0185 m	89	1.1	0.43	
<b>DZ</b>			0.0391 m	89	1.1	-0.17	
<b>DX</b>	1	4	0.0185 m	90	1.1	-0.98	0.76
<b>DY</b>			0.0158 m	90	1.1	0.51	
<b>DZ</b>			0.0365 m	90	1.0	0.80	
<b>DX</b>	1	4	0.0381 m	97	0.5	0.81	0.48
<b>DY</b>			0.0317 m	97	0.5	-1.10	

DZ			0.0705 m	97	0.5	0.00		
DX	3	7	0.0179 m	91	1.0	-0.06	0.10	
DY			0.0162 m	91	1.0	0.29		
DZ			0.0357 m	91	1.0	0.48		
DX	3	7	0.0158 m	87	1.2	0.46	0.10	
DY			0.0142 m	88	1.2	0.09		
DZ			0.0313 m	89	1.1	0.12		
DX	GRNX	8	0.0369 m	97	0.5	0.43	2.32	⚠
DY			0.0319 m	97	0.5	2.19	⚠	
DZ			0.0739 m	98	0.4	0.13		
DX	GRNX	8	0.0180 m	88	1.5	5.04	16.17	⚠
DY			0.0204 m	92	1.2	6.47	⚠	
DZ			0.0199 m	68	2.2	3.45	⚠	
DX	GRNX	7	0.0514 m	98	0.3	-0.12	1.20	
DY			0.0485 m	99	0.3	1.80		
DZ			0.1003 m	99	0.3	0.22		
DX	GRNX	7	0.0478 m	98	0.4	0.43	1.06	
DY			0.0406 m	98	0.4	1.27		
DZ			0.0907 m	98	0.4	0.61		
DX	GRNX	6	0.0614 m	99	0.3	-0.85	1.66	
DY			0.0555 m	99	0.3	2.23	⚠	
DZ			0.1099 m	99	0.3	0.34		
DX	GRNX	6	0.1147 m	99	0.2	0.00	0.57	
DY			0.1256 m	99	0.1	0.97		
DZ			0.2865 m	99	0.1	0.79		
DX	GRNX	4	0.0647 m	99	0.3	-0.99	1.76	
DY			0.0552 m	99	0.3	2.30	⚠	
DZ			0.1143 m	99	0.3	0.12		
DX	GRNX	4	0.1228 m	99	0.1	1.75	1.15	
DY			0.1277 m	99	0.1	-1.38		
DZ			0.2653 m	99	0.1	0.80		
DX	GRNX	3	0.0494 m	98	0.4	0.36	1.12	
DY			0.0458 m	98	0.3	1.47		
DZ			0.0921 m	99	0.3	0.02		
DX	GRNX	3	0.0224 m	93	1.2	5.21	15.23	⚠
DY			0.0215 m	93	1.1	6.31	⚠	
DZ			0.0213 m	77	1.7	2.66	⚠	
DX	GRNX	1	0.1045 m	99	0.2	1.32	0.89	
DY			0.0859 m	99	0.2	0.56		
DZ			0.1766 m	99	0.2	0.29		
DX	GRNX	1	0.0656 m	99	0.3	-0.21	0.21	
DY			0.0703 m	99	0.3	0.74		
DZ			0.1502 m	99	0.2	0.30		
DX	ZAN1	8	0.0222 m	93	0.9	-1.59	2.72	⚠
DY			0.0201 m	93	0.9	-1.72		
DZ			0.0443 m	95	0.7	-1.47		
DX	ZAN1	8	0.0317 m	96	0.6	-0.57	1.49	
DY			0.0261 m	96	0.6	-1.75		
DZ			0.0659 m	98	0.5	-0.94		
DX	ZAN1	7	0.0182 m	90	1.1	-1.62	2.68	⚠
DY			0.0167 m	90	1.0	-1.68		
DZ			0.0367 m	92	0.9	-1.38		
DX	ZAN1	7	0.0197 m	92	1.0	-1.11	3.06	⚠

DY			0.0178 m	92	1.0	-2.23	⚠		
DZ			0.0350 m	92	1.0	-1.53			
DX	ZAN1	6	0.0169 m	88	1.2	-1.83		3.76	⚠
DY			0.0153 m	89	1.1	-2.06	⚠		
DZ			0.0339 m	91	1.0	-1.33			
DX	ZAN1	6	0.0189 m	91	1.0	-1.19		3.28	⚠
DY			0.0154 m	89	1.1	-2.44	⚠		
DZ			0.0337 m	91	1.0	-1.69			
DX	ZAN1	4	0.0153 m	85	1.3	-1.95		4.84	⚠
DY			0.0136 m	86	1.3	-2.41	⚠		
DZ			0.0305 m	88	1.1	-1.26			
DX	ZAN1	4	0.0234 m	94	0.8	-0.97		2.58	⚠
DY			0.0182 m	92	0.9	-2.28	⚠		
DZ			0.0408 m	94	0.8	-1.46			
DX	ZAN1	3	0.0198 m	92	1.0	-1.26		2.53	⚠
DY			0.0180 m	92	0.9	-1.82			
DZ			0.0387 m	94	0.8	-1.50			
DX	ZAN1	3	0.0188 m	91	1.0	-1.57		4.80	⚠
DY			0.0152 m	89	1.1	-2.75	⚠		
DZ			0.0345 m	93	0.9	-1.81			
DX	ZAN1	1	0.0258 m	94	0.8	-0.41		1.29	
DY			0.0222 m	94	0.8	-1.48			
DZ			0.0496 m	95	0.7	-1.20			
DX	ZAN1	1	0.0674 m	99	0.3	-0.22		0.13	
DY			0.0555 m	99	0.3	-0.36			
DZ			0.1310 m	99	0.3	-0.53			
DX	2	1	0.0716 m	99	0.3	0.05		0.01	
DY			0.0445 m	98	0.4	-0.10			
DZ			0.1076 m	98	0.4	-0.10			
DX	2	1	0.0154 m	77	1.7	-0.12		0.04	
DY			0.0134 m	78	1.7	0.01			
DZ			0.0282 m	76	1.8	0.23			
DX	5	10	0.0252 m	94	0.8	0.79		0.52	
DY			0.0205 m	93	0.9	0.32			
DZ			0.0486 m	94	0.8	-0.33			
DX	5	10	0.0279 m	95	0.7	-0.59		0.51	
DY			0.0214 m	93	0.8	-0.43			
DZ			0.0551 m	95	0.7	0.40			
DX	GRNX	9	0.0312 m	96	0.6	0.75		4.20	⚠
DY			0.0261 m	96	0.7	2.98	⚠		
DZ			0.0624 m	97	0.6	0.53			
DX	GRNX	9	0.1193 m	99	0.2	0.31		0.29	
DY			0.0834 m	99	0.2	0.58			
DZ			0.2272 m	99	0.2	0.18			
DX	GRNX	5	0.0610 m	99	0.3	-0.60		1.16	
DY			0.0515 m	99	0.3	1.86			
DZ			0.1138 m	99	0.3	0.08			
DX	GRNX	5	0.0161 m	86	1.7	6.37	⚠	29.18	⚠
DY			0.0177 m	90	1.4	8.88	⚠		
DZ			0.0182 m	63	2.4	3.24	⚠		
DX	GRNX	10	0.0274 m	95	0.7	0.91		4.93	⚠
DY			0.0245 m	95	0.7	3.11	⚠		

DZ			0.0578 m	96	0.6	0.53		
DX	GRNX	10	0.0278 m	95	0.7	0.62	4.02	
DY			0.0243 m	95	0.7	3.00		
DZ			0.0589 m	96	0.6	1.41		
DX	ZAN1	9	0.0229 m	93	0.9	-0.87	1.56	
DY			0.0206 m	93	0.9	-1.54		
DZ			0.0462 m	94	0.8	-1.01		
DX	ZAN1	9	0.0631 m	99	0.3	-1.17	0.56	
DY			0.0480 m	98	0.3	-0.12		
DZ			0.1109 m	99	0.3	-0.63		
DX	ZAN1	5	0.0189 m	90	1.0	-1.99	4.13	
DY			0.0172 m	91	1.0	-2.09		
DZ			0.0373 m	94	0.8	-1.13		
DX	ZAN1	5	0.0207 m	92	0.9	-1.60	4.52	
DY			0.0163 m	90	1.1	-2.69		
DZ			0.0386 m	94	0.8	-1.99		
DX	ZAN1	10	0.0317 m	96	0.6	-0.24	0.65	
DY			0.0258 m	95	0.7	-1.17		
DZ			0.0646 m	97	0.5	-0.66		
DX	ZAN1	10	0.0591 m	99	0.3	-1.34	1.09	
DY			0.0509 m	99	0.3	-0.51		
DZ			0.1243 m	99	0.3	-0.73		
DX	10	8	0.0224 m	92	0.9	-0.38	0.07	
DY			0.0197 m	93	0.9	0.06		
DZ			0.0463 m	94	0.8	-0.36		
DX	10	8	0.0520 m	98	0.4	-0.12	0.01	
DY			0.0453 m	98	0.4	0.10		
DZ			0.0996 m	98	0.4	-0.02		
DX	10	8	0.0233 m	93	0.9	0.14	0.04	
DY			0.0188 m	92	0.9	-0.24		
DZ			0.0454 m	93	0.8	-0.22		
DX	10	7	0.0211 m	92	0.9	-0.29	0.07	
DY			0.0188 m	92	0.9	0.12		
DZ			0.0435 m	93	0.8	0.25		
DX	10	7	0.0810 m	99	0.3	-0.39	0.46	
DY			0.0717 m	99	0.3	0.85		
DZ			0.0661 m	97	0.6	0.39		
DX	10	7	0.0161 m	87	1.3	0.80	0.54	
DY			0.0159 m	90	1.1	0.31		
DZ			0.0326 m	88	1.2	-0.12		
DX	10	6	0.0244 m	94	0.8	-0.51	0.13	
DY			0.0204 m	93	0.8	0.10		
DZ			0.0471 m	94	0.8	0.14		
DX	10	6	0.0389 m	97	0.6	-0.51	0.88	
DY			0.0428 m	98	0.6	0.94		
DZ			0.0378 m	90	1.0	1.11		
DX	10	6	0.0222 m	93	0.9	0.31	0.07	
DY			0.0192 m	93	0.9	-0.38		
DZ			0.0421 m	93	0.9	-0.19		
DX	10	4	0.0256 m	95	0.8	-0.54	0.28	
DY			0.0193 m	93	0.9	0.16		
DZ			0.0441 m	93	0.8	0.49		
DX	10	4	0.0563 m	98	0.3	1.03	0.42	

DY			0.0463 m	98	0.3	-0.03	
DZ			0.1206 m	99	0.3	0.34	
DX	10	4	0.0232 m	93	0.8	0.72	0.60
DY			0.0193 m	93	0.9	0.40	
DZ			0.0429 m	93	0.9	-0.34	
DX	10	3	0.0345 m	97	0.5	-1.32	0.62
DY			0.0317 m	97	0.5	0.68	
DZ			0.0719 m	97	0.5	-0.12	
DX	10	3	0.0794 m	99	0.2	0.60	0.13
DY			0.0633 m	99	0.3	-0.17	
DZ			0.1417 m	99	0.2	0.14	
DX	10	3	0.0214 m	92	0.9	-0.26	0.08
DY			0.0173 m	91	1.0	-0.29	
DZ			0.0383 m	91	1.0	-0.22	
DX	10	1	0.0189 m	91	1.0	-0.12	0.01
DY			0.0175 m	92	0.9	0.09	
DZ			0.0398 m	92	0.9	-0.11	
DX	10	1	0.0284 m	96	0.6	0.48	0.12
DY			0.0218 m	95	0.7	-0.50	
DZ			0.0561 m	96	0.6	-0.01	
DX	10	1	0.0126 m	76	1.8	-0.14	0.10
DY			0.0109 m	76	1.8	0.51	
DZ			0.0242 m	76	1.8	-0.02	
DX	5	8	0.0220 m	92	0.9	0.36	0.17
DY			0.0198 m	93	0.9	0.10	
DZ			0.0443 m	94	0.8	-0.36	
DX	5	8	0.0564 m	99	0.3	0.14	0.04
DY			0.0491 m	98	0.3	0.09	
DZ			0.1070 m	99	0.3	-0.13	
DX	5	8	0.0215 m	92	0.9	-0.56	0.28
DY			0.0189 m	92	0.9	-0.36	
DZ			0.0481 m	95	0.7	0.09	
DX	5	7	0.0185 m	90	1.0	0.66	0.36
DY			0.0168 m	91	1.0	0.47	
DZ			0.0373 m	91	1.0	0.08	
DX	5	7	0.0465 m	98	0.4	0.27	0.10
DY			0.0399 m	98	0.4	0.34	
DZ			0.0938 m	98	0.4	0.20	
DX	5	7	0.0196 m	92	1.0	-0.08	0.10
DY			0.0182 m	93	0.9	-0.12	
DZ			0.0436 m	94	0.8	0.36	
DX	5	6	0.0172 m	89	1.1	0.58	0.30
DY			0.0157 m	90	1.1	0.43	
DZ			0.0348 m	90	1.0	0.05	
DX	5	6	0.0380 m	97	0.5	0.04	0.04
DY			0.0306 m	97	0.5	0.16	
DZ			0.0830 m	98	0.4	0.32	
DX	5	6	0.0192 m	91	1.0	0.18	0.14
DY			0.0158 m	90	1.1	0.43	
DZ			0.0375 m	92	1.0	0.54	
DX	5	4	0.0160 m	87	1.2	0.57	0.33
DY			0.0146 m	88	1.1	0.58	
DZ			0.0324 m	88	1.1	0.27	

<b>DX</b>	5	4	0.0335 m	97	0.5	0.23	0.08
<b>DY</b>			0.0257 m	96	0.6	0.08	
<b>DZ</b>			0.0700 m	97	0.5	0.45	
<b>DX</b>	5	4	0.0166 m	88	1.1	0.29	0.15
<b>DY</b>			0.0146 m	88	1.1	0.45	
<b>DZ</b>			0.0363 m	91	1.0	0.16	
<b>DX</b>	5	3	0.0204 m	92	0.9	0.67	0.43
<b>DY</b>			0.0184 m	93	0.9	0.19	
<b>DZ</b>			0.0403 m	93	0.8	-0.40	
<b>DX</b>	5	3	0.0460 m	98	0.4	0.34	0.04
<b>DY</b>			0.0423 m	98	0.4	-0.01	
<b>DZ</b>			0.0939 m	98	0.3	0.09	
<b>DX</b>	5	3	0.0153 m	86	1.3	-0.35	0.49
<b>DY</b>			0.0127 m	84	1.4	0.19	
<b>DZ</b>			0.0291 m	87	1.2	0.93	
<b>DX</b>	5	1	0.0238 m	93	0.8	1.05	0.76
<b>DY</b>			0.0214 m	94	0.8	0.00	
<b>DZ</b>			0.0481 m	94	0.8	-0.46	
<b>DX</b>	5	1	0.0417 m	98	0.5	0.64	0.23
<b>DY</b>			0.0289 m	97	0.6	-0.27	
<b>DZ</b>			0.0719 m	97	0.5	-0.24	
<b>DX</b>	5	1	0.0300 m	96	0.6	-1.26	1.85
<b>DY</b>			0.0267 m	96	0.6	1.49	
<b>DZ</b>			0.0714 m	97	0.5	1.43	
<b>DX</b>	1	7	0.0193 m	91	1.0	-0.24	0.19
<b>DY</b>			0.0173 m	92	1.0	0.47	
<b>DZ</b>			0.0386 m	92	0.9	0.58	
<b>DX</b>	1	7	0.0913 m	99	0.2	-0.18	0.07
<b>DY</b>			0.2406 m	99	0.2	-0.31	
<b>DZ</b>			0.1081 m	99	0.3	-0.04	
<b>DX</b>	1	7	0.0163 m	88	1.2	0.41	0.13
<b>DY</b>			0.0148 m	88	1.2	-0.26	
<b>DZ</b>			0.0301 m	87	1.3	-0.28	
<b>DX</b>	1	6	0.0202 m	92	0.9	-0.64	0.26
<b>DY</b>			0.0177 m	92	0.9	0.34	
<b>DZ</b>			0.0402 m	92	0.9	0.40	
<b>DX</b>	1	6	0.2086 m	99	0.1	0.32	0.09
<b>DY</b>			0.3965 m	99	0.1	-0.27	
<b>DZ</b>			0.1882 m	99	0.2	0.12	
<b>DX</b>	1	6	0.0214 m	93	0.9	0.86	0.92
<b>DY</b>			0.0192 m	93	0.9	0.02	
<b>DZ</b>			0.0413 m	93	0.9	-0.69	
<b>DX</b>	7	6	0.0162 m	88	1.1	-0.14	0.01
<b>DY</b>			0.0147 m	89	1.1	-0.08	
<b>DZ</b>			0.0324 m	89	1.1	-0.01	
<b>DX</b>	7	6	0.3921 m	99	0.1	-0.18	0.02
<b>DY</b>			0.6839 m	99	0.0	-0.02	
<b>DZ</b>			0.4119 m	99	0.1	-0.14	
<b>DX</b>	7	6	0.0162 m	89	1.1	0.55	0.21
<b>DY</b>			0.0152 m	90	1.1	0.17	
<b>DZ</b>			0.0310 m	88	1.2	-0.02	
<b>DX</b>	7	4	0.0150 m	87	1.2	-0.27	0.09
<b>DY</b>			0.0137 m	87	1.2	-0.03	



DZ			0.0301 m	87	1.2	0.28	
DX	7	4	0.0594 m	99	0.3	-0.28	0.04
DY			0.0387 m	98	0.4	0.09	
DZ			0.1094 m	99	0.3	0.18	
DX	7	4	0.0161 m	89	1.1	0.51	0.22
DY			0.0147 m	90	1.1	-0.02	
DZ			0.0322 m	89	1.1	-0.30	
DX	3	8	0.0207 m	92	0.9	-0.23	0.03
DY			0.0186 m	93	0.9	-0.08	
DZ			0.0415 m	93	0.8	-0.10	
DX	3	8	0.1635 m	99	0.1	-0.15	0.01
DY			0.1241 m	99	0.1	0.06	
DZ			0.4973 m	99	0.1	0.01	
DX	3	8	0.0177 m	89	1.1	-0.06	0.04
DY			0.0149 m	88	1.2	-0.28	
DZ			0.0347 m	91	1.0	-0.21	
DX	3	6	0.0184 m	91	1.0	-0.12	0.11
DY			0.0166 m	92	0.9	0.31	
DZ			0.0364 m	92	0.9	0.46	
DX	3	6	0.0731 m	99	0.3	-0.40	0.06
DY			0.0482 m	99	0.3	0.07	
DZ			0.2175 m	99	0.2	0.06	
DX	3	6	0.0145 m	85	1.3	0.83	0.43
DY			0.0125 m	85	1.4	0.23	
DZ			0.0276 m	86	1.3	-0.02	
DX	3	4	0.0177 m	90	1.0	-0.23	0.25
DY			0.0159 m	91	1.0	0.34	
DZ			0.0348 m	91	1.0	0.72	
DX	3	4	0.0574 m	99	0.3	-0.30	0.03
DY			0.0359 m	98	0.4	0.03	
DZ			0.1130 m	99	0.3	0.01	
DX	3	4	0.0152 m	87	1.2	0.79	0.71
DY			0.0129 m	86	1.3	0.22	
DZ			0.0279 m	86	1.3	-0.54	
DX	3	1	0.0217 m	93	0.9	0.23	0.04
DY			0.0199 m	94	0.8	-0.13	
DZ			0.0436 m	93	0.8	-0.17	
DX	3	1	0.0713 m	99	0.3	-0.19	0.08
DY			0.0421 m	98	0.4	-0.35	
DZ			0.1261 m	99	0.3	-0.27	
DX	3	1	0.0179 m	90	1.1	-0.23	0.28
DY			0.0155 m	89	1.1	0.19	
DZ			0.0336 m	89	1.1	0.71	
DX	9	8	0.0204 m	91	1.0	-0.19	0.04
DY			0.0184 m	92	0.9	-0.07	
DZ			0.0417 m	92	0.9	-0.30	
DX	9	8	0.0903 m	99	0.2	-0.07	0.01
DY			0.0707 m	99	0.2	0.02	
DZ			0.1691 m	99	0.2	-0.12	
DX	9	8	0.0210 m	92	0.9	-0.09	0.02
DY			0.0177 m	91	1.0	-0.12	
DZ			0.0431 m	93	0.9	-0.22	
DX	9	7	0.0177 m	90	1.1	-0.01	0.03

DY			0.0160 m	90	1.0	0.23	
DZ			0.0358 m	90	1.0	0.20	
DX	9	7	0.0613 m	99	0.3	0.06	0.02
DY			0.0510 m	99	0.3	0.15	
DZ			0.1377 m	99	0.2	0.20	
DX	9	7	0.0169 m	89	1.1	0.25	0.06
DY			0.0162 m	91	1.0	0.18	
DZ			0.0338 m	89	1.1	0.04	
DX	9	6	0.0189 m	91	1.0	-0.12	0.03
DY			0.0172 m	91	1.0	0.26	
DZ			0.0379 m	91	1.0	0.17	
DX	9	6	0.0479 m	98	0.4	-0.21	0.06
DY			0.0362 m	98	0.4	0.01	
DZ			0.1115 m	99	0.3	0.30	
DX	9	6	0.0184 m	90	1.0	0.71	0.50
DY			0.0162 m	91	1.0	0.42	
DZ			0.0383 m	92	1.0	-0.07	
DX	9	4	0.0181 m	90	1.1	-0.39	0.14
DY			0.0162 m	90	1.0	0.31	
DZ			0.0361 m	90	1.1	0.37	
DX	9	4	0.0396 m	97	0.5	-0.23	0.14
DY			0.0286 m	97	0.5	-0.20	
DZ			0.0924 m	98	0.4	0.43	
DX	9	4	0.0192 m	91	1.0	1.06	1.56
DY			0.0168 m	91	1.0	0.74	
DZ			0.0387 m	91	1.0	-0.51	
DX	9	3	0.0198 m	92	1.0	-0.01	0.02
DY			0.0178 m	92	0.9	-0.05	
DZ			0.0393 m	92	0.9	-0.21	
DX	9	3	0.0611 m	99	0.3	-0.11	0.03
DY			0.0527 m	99	0.3	-0.12	
DZ			0.1300 m	99	0.3	0.12	
DX	9	3	0.0186 m	90	1.0	0.21	0.11
DY			0.0153 m	89	1.1	0.13	
DZ			0.0371 m	91	1.0	-0.31	
DX	9	1	0.0207 m	92	0.9	-0.01	0.02
DY			0.0196 m	94	0.8	-0.15	
DZ			0.0438 m	93	0.8	-0.23	
DX	9	1	0.0396 m	98	0.5	0.28	0.09
DY			0.0288 m	97	0.5	-0.29	
DZ			0.0790 m	98	0.5	0.34	
DX	9	1	0.0143 m	83	1.5	-0.38	0.06
DY			0.0126 m	83	1.5	0.13	
DZ			0.0276 m	82	1.5	0.06	
DX	6	4	0.0140 m	84	1.4	-0.02	0.02
DY			0.0126 m	85	1.3	0.06	
DZ			0.0282 m	85	1.3	0.25	
DX	6	4	0.0946 m	99	0.2	-0.07	0.00
DY			0.0567 m	99	0.3	-0.05	
DZ			0.1536 m	99	0.2	0.01	
DX	6	4	0.0152 m	87	1.2	0.10	0.04
DY			0.0135 m	88	1.2	-0.05	
DZ			0.0304 m	88	1.2	-0.26	

<b>DX</b>	8	7	0.0191 m	91	1.0	0.26	0.15
<b>DY</b>			0.0172 m	91	1.0	0.35	
<b>DZ</b>			0.0378 m	92	0.9	0.56	
<b>DX</b>	8	7	0.1224 m	99	0.2	0.03	0.01
<b>DY</b>			0.0752 m	99	0.2	0.14	
<b>DZ</b>			0.3416 m	99	0.1	0.11	
<b>DX</b>	8	7	0.0199 m	92	0.9	0.32	0.14
<b>DY</b>			0.0178 m	92	0.9	0.40	
<b>DZ</b>			0.0389 m	92	0.9	0.14	
<b>DX</b>	8	6	0.0192 m	91	1.0	0.18	0.11
<b>DY</b>			0.0174 m	91	1.0	0.31	
<b>DZ</b>			0.0381 m	92	0.9	0.51	
<b>DX</b>	8	6	0.0602 m	99	0.3	-0.08	0.03
<b>DY</b>			0.0413 m	98	0.4	0.08	
<b>DZ</b>			0.1552 m	99	0.2	0.29	
<b>DX</b>	8	6	0.0180 m	89	1.1	0.86	0.48
<b>DY</b>			0.0156 m	89	1.1	0.45	
<b>DZ</b>			0.0359 m	91	1.0	0.20	
<b>DX</b>	8	4	0.0185 m	90	1.0	0.05	0.23
<b>DY</b>			0.0167 m	91	1.0	0.36	
<b>DZ</b>			0.0368 m	91	1.0	0.78	
<b>DX</b>	8	4	0.0506 m	98	0.4	-0.13	0.03
<b>DY</b>			0.0326 m	97	0.5	0.01	
<b>DZ</b>			0.1062 m	98	0.3	0.27	
<b>DX</b>	8	4	0.0183 m	90	1.0	0.89	0.59
<b>DY</b>			0.0156 m	90	1.1	0.50	
<b>DZ</b>			0.0366 m	91	1.0	0.06	
<b>DX</b>	8	1	0.0230 m	93	0.8	0.41	0.06
<b>DY</b>			0.0210 m	94	0.8	-0.21	
<b>DZ</b>			0.0464 m	94	0.8	0.12	
<b>DX</b>	8	1	0.0515 m	98	0.4	0.18	0.03
<b>DY</b>			0.0336 m	97	0.5	-0.10	
<b>DZ</b>			0.0967 m	98	0.4	0.20	
<b>DX</b>	8	1	0.0166 m	87	1.2	-0.13	0.12
<b>DY</b>			0.0143 m	87	1.3	0.43	
<b>DZ</b>			0.0307 m	86	1.3	0.44	
<b>DX</b>	10	9	0.0192 m	90	1.0	0.05	0.01
<b>DY</b>			0.0171 m	91	1.0	0.09	
<b>DZ</b>			0.0405 m	91	1.0	0.14	
<b>DX</b>	10	9	0.2765 m	99	0.1	-0.07	0.14
<b>DY</b>			0.2472 m	99	0.1	0.59	
<b>DZ</b>			0.2067 m	99	0.2	-0.19	
<b>DX</b>	10	9	0.0171 m	87	1.2	0.72	0.73
<b>DY</b>			0.0146 m	86	1.2	0.88	
<b>DZ</b>			0.0356 m	89	1.1	0.02	
<b>DX</b>	5	9	0.0209 m	91	0.9	0.75	0.36
<b>DY</b>			0.0186 m	92	0.9	0.24	
<b>DZ</b>			0.0431 m	92	0.9	-0.12	
<b>DX</b>	5	9	0.2372 m	99	0.1	0.23	0.03
<b>DY</b>			0.2351 m	99	0.1	-0.14	
<b>DZ</b>			0.1804 m	99	0.2	-0.14	
<b>DX</b>	5	9	0.0273 m	95	0.7	-0.24	0.23
<b>DY</b>			0.0237 m	95	0.7	-0.25	

<b>DZ</b>	0.0612 m	96	0.6	0.44
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**Redundancy:**

**W-Test:**

**T-Test (3-dimensional):**

**Estimated Errors (Observations)****Estimated Errors For Observations With Rejected W-Tests (max 10)**

	<b>Station</b>	<b>Target</b>	<b>W-Test</b>	<b>Fact</b>	<b>Est err</b>
DX	GRNX	5	6.37	3.3	0.0317 m
DY			8.88	4.5	0.0484 m
DZ			3.24	1.7	0.0182 m
DX	GRNX	3	5.21	2.7	0.0361 m
DY			6.31	3.2	0.0419 m
DX	GRNX	8	5.04	2.6	0.0280 m
DY			6.47	3.3	0.0408 m
DZ			3.45	1.8	0.0212 m

DY	GRNX	10	3.11	1.6	0.0234 m
DY	GRNX	10	3.00	1.5	0.0225 m

**Estimated Errors For Observations With Rejected T-Tests (max 10)**

	<b>Station</b>	<b>Target</b>	<b>T-Test</b>	<b>Fact</b>	<b>Est err</b>
DX	GRNX	5	29.18	3.9	0.0181 m
DY					0.0422 m
DZ					-0.0074 m
DX	GRNX	8	16.17	2.9	0.0147 m
DY					0.0329 m
DZ					0.0025 m
DX	GRNX	3	15.23	2.8	0.0213 m
DY					0.0333 m
DZ					-0.0051 m
DX	GRNX	10	4.93	1.6	0.0218 m
DY					0.0312 m
DZ					-0.0139 m
DX	ZAN1	4	4.84	1.6	-0.0152 m
DY					-0.0148 m
DZ					0.0019 m
DX	ZAN1	3	4.80	1.6	-0.0162 m
DY					-0.0172 m
DZ					0.0003 m
DX	ZAN1	5	4.52	1.5	-0.0151 m
DY					-0.0162 m
DZ					-0.0067 m
DX	GRNX	9	4.20	1.5	0.0211 m
DY					0.0305 m
DZ					-0.0116 m
DX	ZAN1	5	4.13	1.5	-0.0179 m
DY					-0.0166 m
DZ					0.0027 m
DX	GRNX	10	4.02	1.5	0.0152 m
DY					0.0267 m
DZ					0.0042 m